

COMMITTENTE:



ALTA
SORVEGLIANZA:



GENERAL CONTRACTOR:



**INFRASTRUTTURE FERROVIARIE STRATEGICHE DEFINITE DALLA LEGGE
OBIETTIVO N. 443/01**

LINEA AV/AC TORINO – VENEZIA Tratta VERONA – PADOVA

Lotto funzionale Verona – Bivio Vicenza

PROGETTO ESECUTIVO

SL - SOTTOVIA

SL09 - PROLUNGAMENTO SOTTOVIA ESISTENTE AL KM 29+670.45

GENERALE

Relazione di calcolo

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| GENERAL CONTRACTOR | | DIRETTORE LAVORI | | SCALA - |
| IL PROGETTISTA INTEGRATORE | Consorzio Iricav Due ing. Paolo CARMONA Data: Settembre 2021 | | | |

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA Progr. REV. FOGLIO

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| Rev. | Descrizione | Redatto | Data | Verificato | Data | Approvato | Data | IL PROGETTISTA |
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1 PREMESSA

La presente relazione afferisce ai calcoli e alle verifiche strutturali del prolungamento del sottovia ferroviario esistente denominato 'SL09', ubicato al km 29+670.45, nell'ambito della redazione dei documenti tecnici relativi alla progettazione esecutiva della Linea AV/AC Verona - Padova, Sub tratta Verona – bivio Vicenza, 1° sub lotto Montebello Vicentino - Vicenza.

La struttura scatolare a doppia canna è del tipo gettato in opera ed ha dimensioni interne complessive 13.80 x 5.50 m (ciascuna canna ha una larghezza interna di 6.50 m), con soletta di copertura di spessore 1.00 m, piedritti di spessore 1.00 m, setto centrale di spessore 0.80 m e soletta di fondazione di spessore 1.00 m. La distanza tra la quota del piano del ferro e l'estradosso della soletta superiore è pari a 0.75 m. L'opera presenta uno sviluppo longitudinale di 12.70 m. L'asse del sottovia, inoltre, è in retto rispetto all'asse ferroviario.

Si individua nello stralcio planimetrico riportato a seguire l'ubicazione del sottovia in esame.

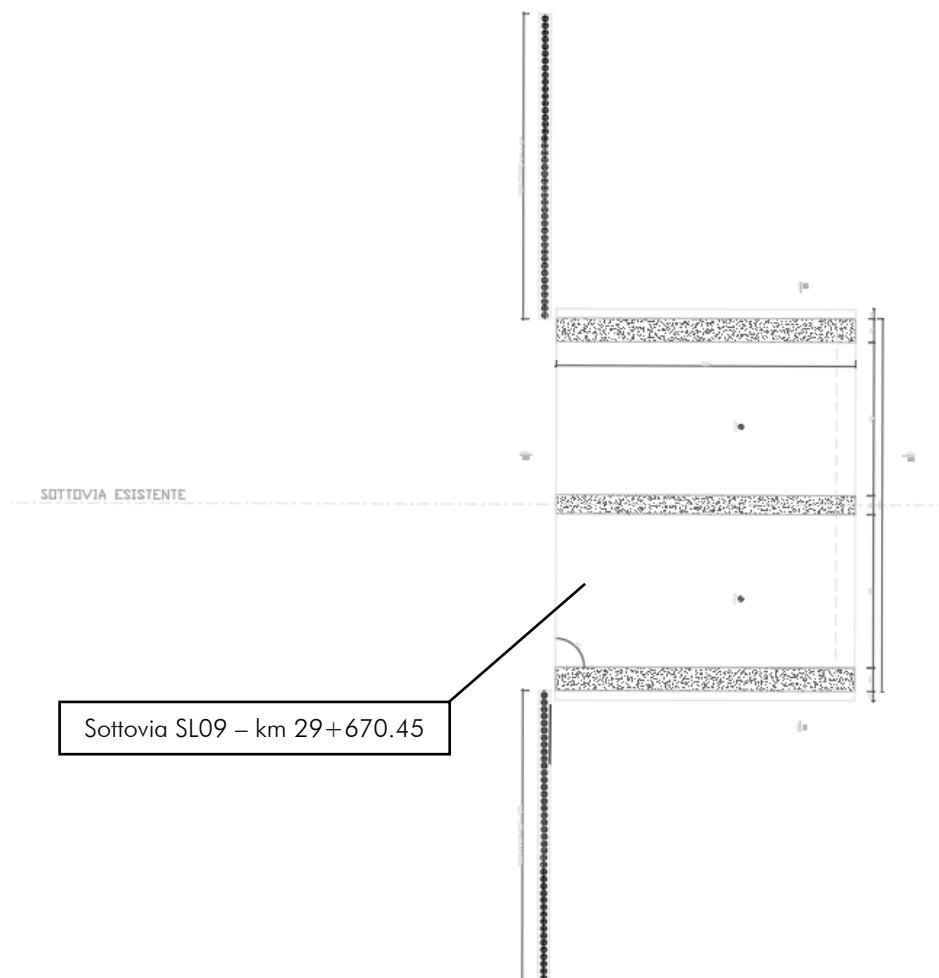




Figura 1.1: Stralcio planimetrico – Ubicazione sottovia SL09

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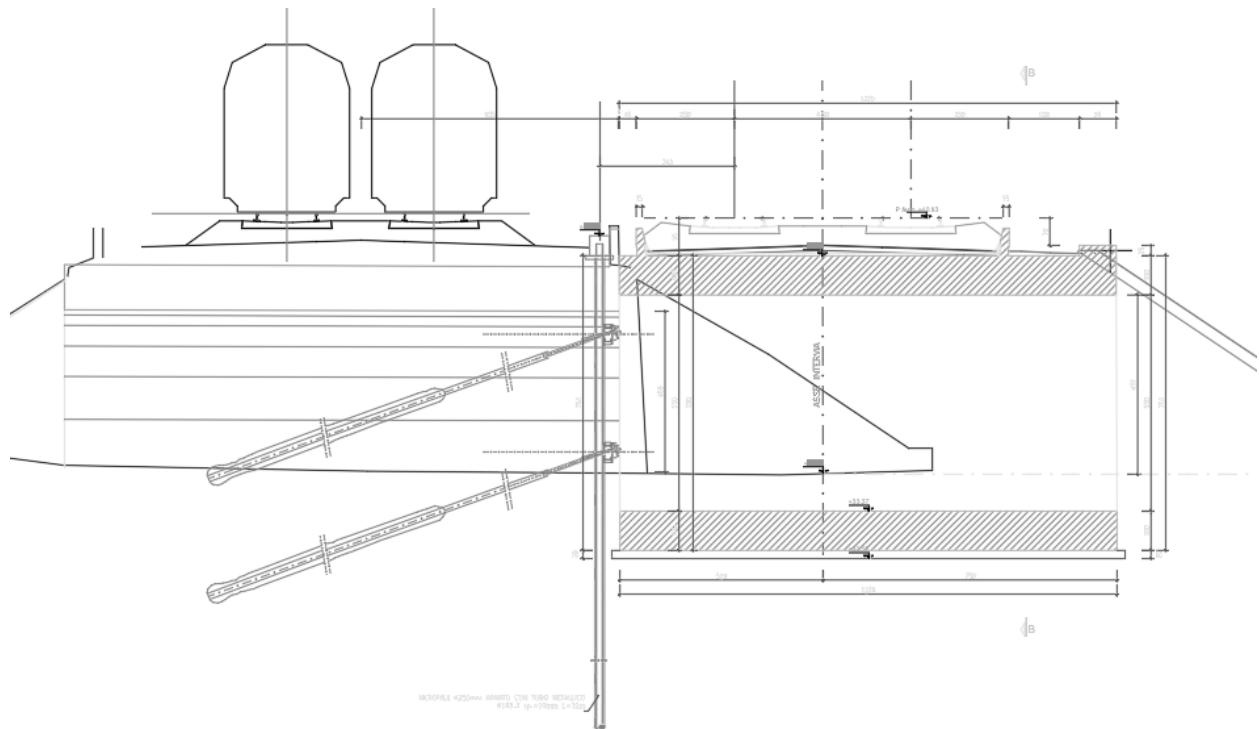


Figura 1.2: Sezione longitudinale sottovia SL09

Si riporta la sezione di calcolo:

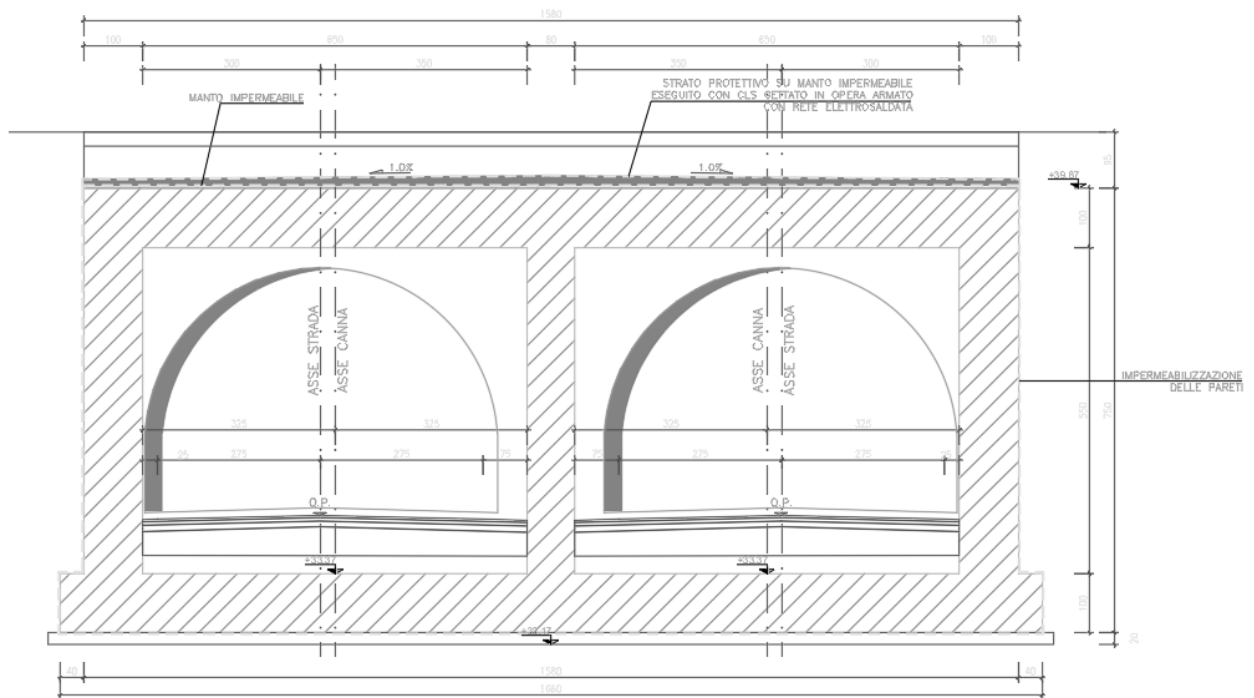






Figura 1.3: Sezione di calcolo sottovia SL09

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Le strutture sono state progettate coerentemente con quanto previsto dalla normativa "Norme Tecniche per le Costruzioni"- DM 14.1.2008 e Circolare n .617 "Istruzioni per l'applicazione delle Nuove Norme Tecniche per le Costruzioni".

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2 NORMATIVA DI RIFERIMENTO

L'analisi dell'opera e le verifiche degli elementi strutturali sono state condotte in accordo con le disposizioni legislative in elenco e in particolare con le seguenti norme e circolari:

- Decreto Ministeriale del 14 Gennaio 2008: "Norme Tecniche per le Costruzioni".
- Circolare M.LL.PP. n. 617 del 2 Febbraio 2009: Istruzioni per l'applicazione delle "Nuove Norme Tecniche per le Costruzioni di cui al Decreto Ministeriale del 14/01/2008".

Si è tenuto inoltre conto dei seguenti documenti:



- UNI EN 1990 – Aprile 2006: Eurocodice: Criteri generali di progettazione strutturale.
- UNI EN 1991-1-1 – Agosto 2004: Eurocodice 1 – Parte 1-1: Azioni in generale – Pesì per unità di volume, pesì propri e sovraccarichi variabili.
- UNI EN 1991-1-4 – Luglio 2005: Eurocodice 1. Azioni sulle strutture. Parte 1-4: Azioni in generale - Azioni del vento.
- UNI EN 1992-1-1 – Novembre 2005: Eurocodice 2 – Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
- UNI EN 1992-2 – Gennaio 2006: Eurocodice 2. Progettazione delle strutture di calcestruzzo. Parte 2: Ponti di calcestruzzo – Progettazione e dettagli costruttivi.
- UNI-EN 1997-1 – Febbraio 2005: Eurocodice 7. Progettazione geotecnica. Parte 1: Regole generali.
- UNI-EN 1998-1 – Marzo 2005: Eurocodice 8: Progettazione delle strutture per la resistenza sismica. Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
- UNI-EN 1998-5 – Gennaio 2005: Eurocodice 8: Progettazione delle strutture per la resistenza sismica. Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.
- Legge 5-11-1971 n° 1086: "Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica".
- Legge. 2 febbraio 1974, n. 64.: "Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche".
- UNI EN 206-1-2016: Calcestruzzo. "Specificazione, prestazione, produzione e conformità".
- UNI 11104:2016 "Calcestruzzo - Specificazione, prestazione, produzione e conformità - Specificazioni complementari per l'applicazione della EN 206".
- RFI DTC SI MA IFS 001 B – Dicembre 2017: Manuale di progettazione delle opere civili.

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3 UNITÀ DI MISURA

Le unità di misura usate nella presente relazione sono:

- lunghezze [m]
- forze [kN]
- momenti [kNm]
- tensioni [MPa]

| | | | | |
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4 CARATTERISTICHE DEI MATERIALI

4.1 CALCESTRUZZO

Per la realizzazione dello scatolare, si prevede l'utilizzo di calcestruzzo avente classe di resistenza 32/40 ($R_{ck} \geq 40.00 \text{ N/mm}^2$) che presenta le seguenti caratteristiche:

Resistenza caratteristica a compressione (cilindrica)

$$f_{ck} = 0.83 \times R_{ck} = 33.20 \quad \text{N/mm}^2$$

Resistenza media a compressione

$$f_{cm} = f_{ck} + 8 = 41.20 \quad \text{N/mm}^2$$

Modulo elastico

$$E_{cm} = 22000 \times (f_{cm}/10)^{0.3} = 33643 \quad \text{N/mm}^2$$

Resistenza di calcolo a compressione

$$f_{cd} = a_c \times f_{ck}/\gamma_c = 0.85 \times f_{ck}/1.5 = 18.81 \quad \text{N/mm}^2$$

Resistenza a trazione media

$$f_{ctm} = 0.30 \times f_{ck}^{2/3} = 3.10 \quad \text{N/mm}^2$$

Resistenza a trazione

$$f_{ctk} = 0.7 \times f_{ctm} = 2.17 \quad \text{N/mm}^2$$

Resistenza a trazione di calcolo

$$f_{ctd} = f_{ctk} / \gamma_c = 1.45 \quad \text{N/mm}^2$$

Resistenza a compressione (comb. Rara)

$$\sigma_c = 0.55 \times f_{ck} = 18.26 \quad \text{N/mm}^2$$

Resistenza a compressione (comb. Quasi permanente)

$$\sigma_c = 0.40 \times f_{ck} = 13.28 \quad \text{N/mm}^2$$

4.2 ACCIAIO PER ARMATURE ORDINARIE

Classe acciaio per armature ordinarie B450C

Tensione di snervamento caratteristica $f_{yk} \geq 450 \text{ MPa}$

Tensione caratteristica di rottura $f_t \geq 540 \text{ MPa}$

Modulo di elasticità $E_s = 210000 \text{ MPa}$

4.3 COPRIFERRI



Si riportano di seguito i copriferri nominali per le strutture in calcestruzzo armato:

Strutture di elevazione 5.0 cm

Strutture di fondazione 5.0 cm



4.4 DURABILITÀ E PRESCRIZIONI SUI MATERIALI

Per garantire la durabilità delle strutture in calcestruzzo armato ordinario, esposte all'azione dell'ambiente, si devono adottare i provvedimenti atti a limitare gli effetti di degrado indotti dall'attacco chimico, fisico e derivante dalla corrosione delle armature e dai cicli di gelo e disgelo.

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Si adotta quanto segue:

| | | |
|------------|-----------------------|-----|
| Fondazione | Classe di esposizione | XC2 |
| Elevazione | Classe di esposizione | XC4 |

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5 PARAMETRI SISMICI

Per la definizione dell'azione sismica occorre definire il periodo di riferimento P_{VR} in funzione dello stato limite considerato. La vita nominale (V_N) dell'opera è stata assunta pari a 100 anni. La classe d'uso assunta è la III. Il periodo di riferimento (V_R) per l'azione sismica, data la vita nominale e la classe d'uso, vale:

$$V_R = V_N \times C_u = 100 \times 1.5 = 150 \text{ anni.}$$

Il valore di probabilità di superamento del periodo di riferimento P_{VR} , cui riferirsi per individuare l'azione sismica agente, è:

$$P_{VR} \text{ (SLV)} = 10\%.$$

Il periodo di ritorno dell'azione sismica T_R espresso in anni vale:

$$T_R \text{ (SLV)} = - \frac{V_r}{\ln(1 - P_{VR})} = 1424 \text{ anni}$$

Dato il valore del periodo di ritorno suddetto, tramite le tabelle riportate nell'Allegato B della norma o tramite la mappatura messa a disposizione in rete dall'Istituto Nazionale di Geofisica e Vulcanologia (INGV), è possibile definire i valori di a_g , F_0 , T^*_c :

a_g → accelerazione orizzontale massima del terreno su suolo di categoria A, espressa come frazione dell'accelerazione di gravità;

F_0 → valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T^*_c → periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

S → coefficiente che comprende l'effetto dell'amplificazione stratigrafica (S_s) e dell'amplificazione topografica (S_t);

Il calcolo viene eseguito con il metodo pseudostatico (N.T.C. par. 7.11.6). In queste condizioni l'azione sismica è rappresentata da una forza statica equivalente pari al prodotto delle forze di gravità per un opportuno coefficiente sismico.

Le spinte delle terre, considerando lo scatolare una struttura rigida e priva di spostamenti (NTC par. 7.11.6.2.1 e EC8-5 par.7.3.2.1), sono calcolate in regime di spinta a riposo, condizione che comporta il calcolo delle spinte in condizione sismica con l'incremento dinamico di spinta del terreno calcolato secondo la formula di Wood:

$$\Delta P_d = S a_g / g \gamma h_{tot}^2$$

L'azione sismica è rappresentata da un insieme di forze statiche orizzontali e verticali, date dal prodotto delle forze di gravità per le accelerazioni sismiche massime attese al suolo, considerando la componente verticale agente verso l'alto o verso il basso, in modo da produrre gli effetti più sfavorevoli.

I valori delle caratteristiche sismiche per lo SLV sono i seguenti:



Latitudine: 45.254029

Longitudine: 11.214390

$a_g = 0.212 \text{ g}$;

$F_0 = 2.435$;

$T^*_c = 0.288 \text{ s}$.

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Il sottosuolo su cui insiste l'opera ricade in categoria sismica "C" e categoria topografica "T1". I coefficienti di amplificazione stratigrafica e topografica risultano quindi:

$$S_S = 1.390;$$

$$S_T = 1.0.$$

Risulta quindi:

$$a_{max} = 2.894 \text{ m/s}^2;$$

$$k_h = 0.295;$$

$$k_v = \pm 0.148$$



con:

$$a_{max} = S \cdot a_g = S_S \cdot S_T \cdot a_g$$

$$k_h = \beta_m \cdot \frac{a_{max}}{g}$$

$$k_v = \pm 0,5 \cdot k_h$$

Nel caso in esame, poiché l'opera non è in grado di subire spostamenti relativi rispetto al terreno, il coefficiente β_m assume valore unitario.

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6 CARATTERIZZAZIONE GEOTECNICA

6.1 RILEVATI E RINTERRI

Sono riassunte nel prospetto riportato di seguito le caratteristiche del terreno dei rilevati ferroviari esistenti e di nuova progettazione (con γ pari al peso specifico del terreno; γ_{sat} pari al peso specifico saturo del terreno; c' pari alla coesione; ϕ' pari all'angolo di attrito; K_0 coefficiente di spinta a riposo):

| Parametri del rilevato ferroviario | | | | |
|------------------------------------|----------------------|-------|---------|-------|
| γ | γ_{sat} | c' | ϕ' | k_0 |
| (kN/m ³) | (kN/m ³) | (kPa) | (°) | (-) |
| 20.00 | 20.00 | 0.0 | 38.0 | 0.384 |

6.2 STRATIGRAFIA E PARAMETRI GEOTECNICI

Si riportano di seguito le caratteristiche geotecniche relative al terreno di fondazione della tratta in cui ricade il sottovia in esame, desunte dagli esiti delle indagini disponibili. Le formazioni indicate nei prospetti di seguito fanno riferimento alle unità geotecniche descritte nel seguente elenco:



- Unità 2 – Limi argillosi compatti;
- Unità 3b – Depositi limoso-argillosi;
- Unità 4 – Sabbie limose;
- Unità 6 – Strato ghiaioso.

La quota rispetto alla quale è individuata la stratigrafia riportata a seguire, corrispondente a 34.20 m s.l.m. , è assunta coincidente col p.c. locale dell'opera in esame intercettato sulla linea.

Per quanto riguarda la falda di progetto, questa è assunta alla quota di 34.20 m s.l.m. , ossia coincidente col p.c. Per ulteriori dettagli circa la posizione della falda di progetto si faccia riferimento alla relazione geotecnica della WBS SL09 in oggetto.

Tabella 1: Stratigrafia e valori caratteristici dei parametri geotecnici di calcolo

| Strato | Formazione | spessore strato | z_{base} strato | γ | ϕ'_k | c'_k | c_{uk} | E' | Note |
|--------|------------|-----------------|-------------------|----------------------|-----------|--------|----------|----------------------|------|
| | | (m) | (m da p.c.) | (kN/m ³) | (°) | (kPa) | (kPa) | (kN/m ²) | |
| 1 | UG3b | 2.0 | 2.0 | 17.5 | 22 | - | 60 - 80 | 10000 - 15000 | |
| 2 | UG3b | 7.0 | 9.0 | 17.5 | 22 | - | 25 - 80 | 5000 - 15000 | |
| 3 | UG4 | 1.5 | 10.5 | 19 | 36 | 0 | - | 40000 | |
| 4 | UG3b | 7.5 | 18.0 | 17.5 | 22 | - | 25 - 50 | 5000 - 15000 | |
| 5 | UG4 | 3.0 | 21.0 | 19 | 36 | 0 | - | 40000 | |
| 6 | UG3b | 2.0 | 23.0 | 17.5 | 22 | - | 50 - 80 | 10000 - 15000 | |

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| Strato | Formazione | spessore strato | z_{base} strato | γ | ϕ'_k | c'_k | c_{uk} | E' | Note |
|--------|------------|--|-------------------|----------------------|-----------|--------|-----------|----------------------|------|
| | | (m) | (m da p.c.) | (kN/m ³) | (°) | (kPa) | (kPa) | (kN/m ²) | |
| 7 | UG6 | 5.5 | 28.5 | 19 | 36 | 0 | - | 250000 | |
| 8 | UG2 | 6.5 | 35.0 | 18 | - | - | 100 - 150 | 20000 - 40000 | |
| z_w | | Profondità della falda dal p.c. locale | | | 0.00 | | m | | |

LEGENDA

γ = peso di volume naturale;

ϕ'_k = valore caratteristico dell'angolo di attrito;



c'_k = valore caratteristico della resistenza al taglio in condizioni drenate;

c_{uk} = valore caratteristico della coesione non drenata;

E' = modulo elastico del terreno.

6.3 LIQUEFACIBILITA' DEI TERRENI

Non sono stati rilevati livelli di terreni potenzialmente liquefacibili in corrispondenza dell'opera in esame; per maggiori dettagli si rimanda alla relazione geotecnica relativa alla WBS in esame.



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7 GEOMETRIA DELLA STRUTTURA

Nel seguito sarà esaminata una striscia di scatolare avente lunghezza 1.00 m. Si riportano di seguito le dimensioni geometriche della sezione in retto.

| | | |
|--|-------------|---------|
| Spessore medio del ballast + armamento | $H_b =$ | 0.75 m |
| Spessore sovrizzo in curva | $H_{sv} =$ | 0.00 m |
| Spessore sub-ballast | $H_{sb} =$ | 0.00 m |
| Spessore supercompattato | $H_{sc} =$ | 0.00 m |
| Spessore rinterro | $H_r =$ | 0.00 m |
| Spessore massetto impermeabilizzazione | $H_m =$ | 0.00 m |
| Larghezza totale dello scatolare | $L_{tot} =$ | 15.80 m |
| Larghezza utile dello scatolare | $L_{int} =$ | 13.80 m |
| Larghezza mensola di fondazione sinistra | $L_{msx} =$ | 0.40 m |
| Larghezza mensola di fondazione destra | $L_{mdx} =$ | 0.40 m |
| Spessore della soletta di copertura | $S_s =$ | 1.00 m |
| Spessore piedritti | $S_p =$ | 1.00 m |
| Spessore ritto centrale | $S_{pc} =$ | 0.80 m |
| Spessore della soletta di fondazione | $S_f =$ | 1.00 m |
| Altezza libera dello scatolare | $H_{int} =$ | 5.50 m |
| Altezza totale dello scatolare | $H_{tot} =$ | 7.50 m |
| Quota falda da intradosso fondazione | $H_w =$ | 1.83 m |
| Larghezza striscia di calcolo | $b =$ | 1.00 m |

L'asse del sottovia, come detto nella premessa, è in retto rispetto all'asse ferroviario.

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8 ANALISI DEI CARICHI

Nel seguente paragrafo si descrivono le condizioni di carico elementari assunte per l'analisi delle sollecitazioni e per le verifiche della struttura in esame. Tali condizioni di carico elementari saranno opportunamente combinate secondo quanto previsto dalla normativa vigente.

Per i materiali si assumono i seguenti pesi specifici:

| | | |
|--------------------------|-----------------|--------------------------|
| calcestruzzo armato: | $\gamma_{c.a.}$ | = 25 kN/m ³ ; |
| sovrastuttura stradale: | γ_{ril} | = 18 kN/m ³ ; |
| massicciata + armamento: | γ_b | = 18 kN/m ³ . |

8.1 CONDIZIONI DI CARICO

8.1.1 Peso proprio strutturale (PP)

Il peso proprio delle solette e dei piedritti risulta:

| | |
|------------------------|---|
| Peso soletta superiore | $P_{ss} = 25.00 \times 1.00 = 25.00$ kN/m |
| Peso soletta inferiore | $P_{si} = 25.00 \times 1.00 = 25.00$ kN/m |
| Peso piedritti | $P_p = 25.00 \times 1.00 = 25.00$ kN/m |
| Peso setto centrale | $P_{sc} = 25.00 \times 0.80 = 20.00$ kN/m |

8.1.2 Carichi permanenti portati (PERM)

8.1.2.1 Soletta superiore

| | | | | |
|-------------------------------|--------|---|---------------|-------------|
| Ballast e armamento | 0.75 m | x | 18.00 kN/mc = | 13.50 kN/mq |
| Sovralzo per linee in curva | 0.00 m | x | 20.00 kN/mc = | 0.00 kN/mq |
| Sub-ballast | 0.00 m | x | 20.00 kN/mc = | 0.00 kN/mq |
| Supercompattato | 0.00 m | x | 20.00 kN/mc = | 0.00 kN/mq |
| Rinterro | 0.00 m | x | 20.00 kN/mc = | 0.00 kN/mq |
| Massetto impermeabilizzazione | 0.00 m | x | 25.00 kN/mc = | 0.00 kN/mq |

Peso totale permanenti portati sulla soletta superiore:

$$P_{ps} = 13.50 \text{ kN/m}$$

Inoltre si considera, come carico concentrato nei nodi di connessione tra la soletta superiore e i piedritti, il carico permanente dovuto al peso della zona sovrastante la metà dello spessore del piedritto (la modellazione dello scatolare è stata fatta in asse piedritto):

$$\text{Peso ricoprimento per metà spessore piedritto } P_{ps_p} = 6.75 \text{ kN}$$

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8.1.2.2 Soletta inferiore

Sulla soletta inferiore sono stati considerati i carichi permanenti relativi alla sovrastruttura stradale:

| | |
|--|------------------------|
| Spessore medio sovrastruttura stradale | 1.05 m |
| Peso specifico sovrastruttura stradale | 18.0 kN/m ³ |
| Peso sovrastruttura stradale | 18.90 kN/m |

8.1.3 Spinta del terreno (SPTSX e SPTDX)

La struttura è stata analizzata nella condizione di spinta a riposo.

$$K_0 = 0.384$$

La pressione del terreno è stata calcolata come:

$$P = (P_b + h_{variabile} * \gamma_{terreno_piedritto}) * K_0$$

al di sopra della falda

$$P = [P_b + h_{variabile} * (\gamma_{terreno_piedritto} - \gamma_w)] * K_0$$

al di sotto della falda

per cui risulta quanto segue.

| | |
|--|--------------------|
| Pressione estradosso soletta superiore | $P_1 = 5.19$ kN/m |
| Pressione in asse soletta superiore | $P_2 = 9.03$ kN/m |
| Pressione in asse soletta inferiore | $P_3 = 47.68$ kN/m |
| Pressione intradosso soletta inferiore | $P_4 = 49.60$ kN/m |

Inoltre sono stati considerati, come carichi concentrati nei nodi della copertura e della fondazione, i contributi delle spinte del terreno esercitate su metà spessore delle soletta di copertura e di fondazione.

$$\text{Spinta semispessore soletta di copertura} \quad P_{H.t.cop} = 3.56 \text{ kN}$$

$$\text{Spinta semispessore soletta di fondazione} \quad P_{H.t.fond} = 24.32 \text{ kN}$$

Nella figura seguente si riportano i diagrammi di spinta del terreno agenti sui piedritti.

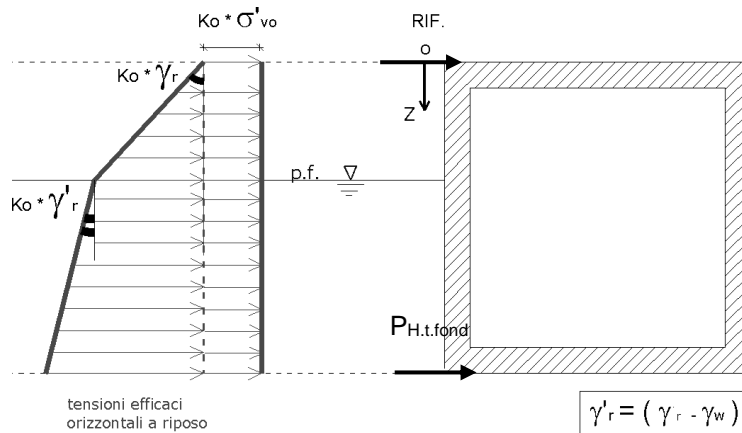




Figura 8.1: SPTSX

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8.1.4 Azioni della falda (SPTW)

Qualora la falda sia posizionata al di sopra del piano di posa della fondazione si considera, in aggiunta alla spinta delle terre sopra definita, la spinta idrostatica esercitata dall'acqua sulle pareti verticali, pari a $S_w = \gamma_w * z$, e la sottospinta idraulica diretta verso l'alto sulla soletta inferiore, pari al prodotto del peso specifico dell'acqua, per l'altezza dello scatolare immerso, $P_w = \gamma_w * h_{imm}$.

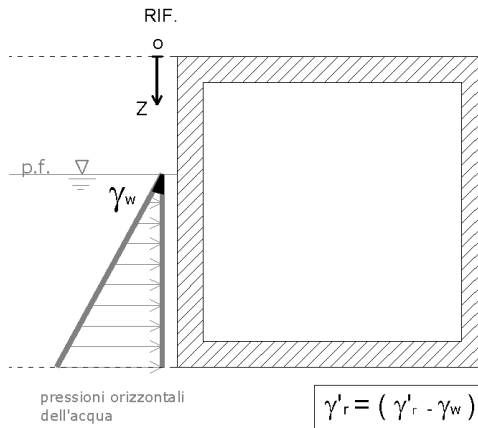


Figura 8.2: SPTW

8.1.5 Azioni termiche (TERM)

Sono stati considerati gli effetti dovuti alle variazioni termiche. In particolare, è stata considerata sulla soletta superiore una variazione termica uniforme di $\pm 15^\circ \text{C}$ ed una variazione termica nello spessore, tra estradosso ed intradosso, pari a $\Delta T_v = \pm 5^\circ \text{C}$. Il valore applicato della variazione termica uniforme viene ridotto di 1/3 per considerare gli effetti viscosi del calcestruzzo, ed è quindi pari a $\pm 5^\circ \text{C}$. Per il coefficiente di dilatazione termica si assume:

$$\alpha = 10 * 10^{-6} = 0.00001 \text{ } ^\circ\text{C}^{-1}.$$

8.1.6 Ritiro (RITIRO)

Il ritiro viene applicato mediante una variazione termica uniforme della copertura, in grado di produrre la stessa deformazione nel calcestruzzo.

I fenomeni di ritiro sono stati considerati agenti sulla sola soletta di copertura ed applicati nel modello come una variazione termica uniforme equivalente pari a:



$$\Delta T_{\text{ritiro}} = -8.77 \text{ } ^\circ\text{C}.$$

Di seguito i risultati delle analisi.

L'analisi delle sollecitazioni viene svolta per una striscia di larghezza unitaria, assumendo la dimensione convenzionale h_0 pari a $2 \times A_c/u$ ed un calcestruzzo C32/40.

Caratteristiche della sezione:

$$B = 1.00 \text{ m}$$

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H = 1.00 m

Caratteristiche del cls a tempo zero:

$f_{ck} = 33.20 \text{ N/mm}^2$ classe del cls
 $f_{cm} = f_{ck} + 8 = 41.20 \text{ N/mm}^2$ resistenza a compressione media

Deformazione da ritiro:

U.R. = 75 % umidità relativa
 $\epsilon_{ca}(t=\infty) = -5.80E-05$ ritiro autogeno
 $\epsilon_{cd}(t=\infty) = -1.88E-04$ ritiro per essiccaamento
 $\epsilon_r = \epsilon_{ca} + \epsilon_{cd} = -2.46E-04$

Il ritiro viene considerato nel calcolo delle sollecitazioni come un'azione termica applicata alla soletta superiore di intensità pari a:

$$\alpha \times \Delta T \times E_c = \epsilon_r \times E_c / (1 + \varphi)$$

$$\Delta T = \epsilon_r / [\alpha \times (1 + \varphi)] = -2.46E-04 / [1.00E-05 \times (1 + 1.80)] = -8.77^\circ\text{C}$$

I fenomeni di ritiro vengono considerati agenti solo sulla soletta di copertura.

8.1.7 Azioni variabili da traffico

8.1.7.1 Coefficiente di incremento dinamico



Per il calcolo del coefficiente dinamico Φ si è fatto riferimento al paragrafo 2.5.1.4.2.5 del MdP RFI DTC SI PS MA IFS 001 C, tenendo conto di quanto riportato nella Tabella 2.5.1.4.2.5.3-1. In particolare, poiché la struttura ha altezza libera > 5.0 m e luce libera > 8.0 m, considerando la linea con elevato standard manutentivo, vale quanto segue:

| | |
|----------------------------|--|
| Lunghezza del trasverso | $L_{\text{soletta}} = 13.80 \text{ m}$ |
| Altezza dei piedritti | $H_{\text{int}} = 5.50 \text{ m}$ |
| Ricoprimento | $h_r = 0.75 \text{ m}$ |
| Lunghezza media | $L_m = 8.27 \text{ m}$ |
| Lunghezza caratteristica | $L_\Phi = 10.75$ |
| Coeff. incremento dinamico | $\Phi_2 = 1.16$ |

In accordo alla normativa tale coefficiente dinamico non verrà ridotto in quanto il ricoprimento è inferiore ad un metro.

8.1.7.2 Larghezza di diffusione

Il sovraccarico ferroviario è stato distribuito dalla rotaia alla quota del piano medio della soletta di copertura assumendo che detta diffusione avvenga con rapporto 4/1 lungo il ballast ed 1/1 nel massetto delle pendenze e nelle strutture in c.a., con un aumento dell'impronta di carico pari a:

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$$\Delta_d = 0.59 \text{ m}$$

La diffusione del carico in senso trasversale all'asse binario risulta dunque pari a:

$$L_d = 2.60 + 2 \Delta_d = 3.78 \text{ m}$$

8.1.7.3 Treno LM71 (ACCM_LM71)

Carichi verticali sulla soletta superiore

Il treno LM71 viene schematizzato da 4 assi da 250 kN disposti ad interasse di 1,60 m e da un carico distribuito di 80 kN/m in entrambe le direzioni per una larghezza illimitata.

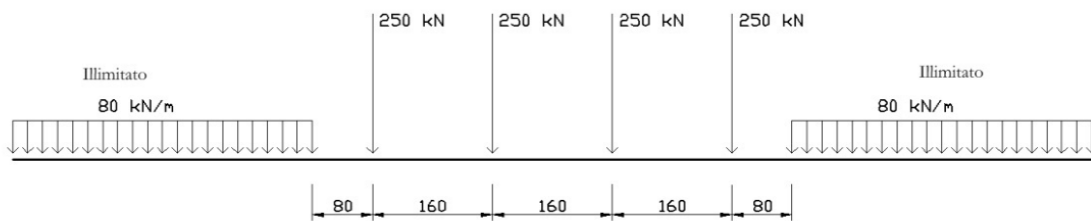


Figura 8.3: Treno LM71

La larghezza di diffusione in direzione longitudinale, considerando una larghezza della traversina pari a 0.30 m, risulta pari a:

$$L_l = 0. + 2 \times \Delta_d = 1.48 \text{ m}$$

Poiché la larghezza è minore dell'interasse degli assi (1.6m), le larghezze di diffusione dei singoli assi non si sovrappongono..

Si assume una lunghezza totale di diffusione dei quattro carichi concentrati:

$$L_l = 5.98 \text{ m.}$$

Pertanto il carico ripartito dovuto al treno LM71 (considerando il coefficiente di adattamento $\alpha=1.1$ ed il coefficiente dinamico Φ) risulta:

$$\text{Carico ripartito prodotto dalle forze concentrate } P_{V,Q1.cop} = 56.52 \text{ kN/m}$$



$$\text{Carico ripartito prodotto dal carico distribuito } P_{V,Q2.cop} = 27.02 \text{ kN/m}$$

I carichi del treno LM71 saranno dislocati a cavallo dell'asse di mezzera della soletta superiore per cogliere il valore del massimo momento in campata; ubicandoli, invece, in adiacenza al piedritto di destra, si coglierà il valore del massimo taglio.

8.1.7.4 Treno SW/2 (ACCM_SW2)

Carichi verticali sulla soletta superiore

Tale carico schematizza gli effetti statici prodotti dal traffico ferroviario pesante. Viene schematizzato da un carico lineare uniformemente ripartito di valore pari a 150 kN/m (coefficiente $\alpha = 1,00$):

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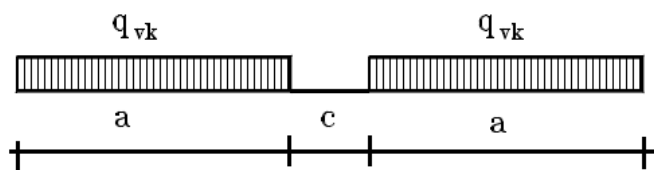


Figura 8.4: Treno di carico SW

Per la struttura scatolare in oggetto risulta:

$$q = q_{vk} / L_{d1} \times \phi = 46.05 \text{ kN/m}$$

Si considera il treno di carico SW/2 applicato su tutta la soletta superiore.

8.1.7.5 Numero di treni contemporanei

Conformemente a quanto riportato nel par. 5.2.3.1.2_Tab.5.2.III del DM 14.1.2008, si sono considerati due treni contemporanei sull'impalcato, sia per il traffico normale che per quello pesante.

Tabella 2: Carichi mobili in funzione del numero di binari presenti sul ponte - Tab.5.2.III del DM 14.1.2008

| Numero di binari | Binari Carichi | Traffico normale | | Traffico pesante ⁽²⁾ |
|------------------|----------------|--|---|--|
| | | caso a ⁽¹⁾ | caso b ⁽¹⁾ | |
| 1 | Primo | 1,0 (LM 71 ⁺⁺ SW/0 ⁰) | - | 1,0 SW/2 |
| 2 | Primo | 1,0 (LM 71 ⁺⁺ SW/0 ⁰) | - | 1,0 SW/2 |
| | secondo | 1,0 (LM 71 ⁺⁺ SW/0 ⁰) | - | 1,0 (LM 71 ⁺⁺ SW/0 ⁰) |
| ≥ 3 | Primo | 1,0 (LM 71 ⁺⁺ SW/0 ⁰) | 0,75 (LM 71 ⁺⁺ SW/0 ⁰) | 1,0 SW/2 |
| | secondo | 1,0 (LM 71 ⁺⁺ SW/0 ⁰) | 0,75 (LM 71 ⁺⁺ SW/0 ⁰) | 1,0 (LM 71 ⁺⁺ SW/0 ⁰) |
| | Altri | - | 0,75 (LM 71 ⁺⁺ SW/0 ⁰) | - |

⁽¹⁾ LM71 “+” SW/0 significa considerare il più sfavorevole fra i treni LM 71, SW/0

⁽²⁾ Salvo i casi in cui sia esplicitamente escluso

8.1.7.6 Frenatura e avviamento (AVV e FREN)

Le forze di frenatura e di avviamento agiscono sulla sommità del binario nella direzione longitudinale.

Treno LM71



Avviamento $A_v = 33 \text{ kN/m}$

Carico distribuito su L_d :

$$q_{Av} = A_v \alpha / L_d = 9.62 \text{ kN/m}$$

Treno SW/2

Frenatura $A_v = 35 \text{ kN/m}$

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Carico distribuito su L_d :

$$q_{Av} = A_v \alpha / L_d = 9.27 \text{ kN/m}$$

Inoltre sono state aggiunte, come carichi concentrati nei nodi della soletta di copertura, le seguenti forze:

Spinta semispessore soletta di copertura (avviamento) $Q_{dNODO} = 0.37 \text{ kN}$

Spinta semispessore soletta di copertura (frenatura) $Q_{fNODO} = 0.29 \text{ kN}$

Nel modello di calcolo si considera l'azione congruente al treno di carico verticale considerato. La spinta è applicata da sinistra verso destra per massimizzare gli effetti di sbilanciamento della struttura.

8.1.7.7 Spinta del sovraccarico sul rilevato (SPACCSX e SPACCDX)

Treno LM71

Si è considerata la sola spinta prodotta dal carico ripartito equivalente alle forze concentrate.

$$P_{H,Q,riffi} = (P_{V,Q1,cop} / \Phi) K_0 = 18.74 \text{ kN/m}$$

Anche in questo caso, sono stati aggiunti, come carichi concentrati nei nodi della copertura e della fondazione per la spinta sul piedritto sinistro e per la spinta sul piedritto destro, le seguenti forze:

Spinta semispessore soletta di copertura $P_{H,Q,cop} = 9.37 \text{ kN}$

Spinta semispessore soletta di fondazione $P_{H,Q,fond} = 9.37 \text{ kN}$

Treno SW/2

$$P_{H,Q,riffi} = (q_{sw/2} / \Phi) K_0 = 15.27 \text{ kN/m}$$

Anche in questo caso, sono stati aggiunti, come carichi concentrati nei nodi della copertura e della fondazione, le seguenti forze:

Spinta semispessore soletta di copertura $P_{H,Q,cop} = 7.64 \text{ kN}$

Spinta semispessore soletta di fondazione $P_{H,Q,fond} = 7.64 \text{ kN}$



8.1.7.8 Serpeggio (SERP)

La forza laterale indotta dal serpeggio si considera come una forza concentrata agente orizzontalmente, applicata alla sommità della rotaia più alta, perpendicolarmente all'asse del binario. Tale azione si applicherà sia in rettilineo che in curva. Il valore caratteristico di tale forza sarà assunto pari a $Q_{sk} = 100 \text{ kN}$ e la componente trasversale allo scatolare risulta:

$$Q_{\perp} = 100 \text{ kN} * \sin(0.00^\circ) = 0.00 \text{ kN}$$

Considerando la diffusione del carico, si avrà:

$$q_{serp} = Q_{\perp} / (L_d * L_{tot}) = 0.00 \text{ kN/m}^2.$$

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8.1.7.9 Sovraccarichi accidentali sulla soletta di fondazione (ACC_SOLINF)

Si applica un carico uniformemente distribuito pari a 28.6 kPa, corrispondente ai carichi della Corsia n°1 dello Schema di Carico 1 per ponti stradali uniformemente distribuiti sulla larghezza utile dello scatolare (considerando una striscia di 1m di opera d'arte).

8.1.7.10 Forza centrifuga

Non presentando i binari un tracciato in curva, la forza centrifuga non è stata considerata.

8.1.8 Azioni sismiche

8.1.8.1 Forze di inerzia:

Per il calcolo dell'azione sismica si è utilizzato il metodo dell'analisi pseudo-statica in cui l'azione sismica è rappresentata da una forza statica equivalente pari al prodotto delle forze di gravità per un opportuno coefficiente sismico k .

Le forze sismiche sono pertanto le seguenti:

$$\text{Forza sismica orizzontale} \quad F_h = k_h \times W$$

$$\text{Forza sismica verticale} \quad F_v = k_v \times W$$

I valori dei coefficienti sismici orizzontale k_h e verticale k_v possono essere valutati mediante le espressioni:

$$k_h = a_{max}/g$$

$$k_v = \pm 0.5 \times k_h$$

Gli effetti dell'azione sismica sono stati valutati tenendo conto delle masse associate ai seguenti carichi gravitazionali:

$$G_1 + G_2 + \psi_{2i} Q_{ki}$$

Dove nel caso specifico si assumerà, per i carichi dovuti al transito dei convogli ferroviari, $\psi_{2i} = 0.2$.

Come massa del treno è stato considerato il carico uniformemente distribuito sulla copertura di intensità maggiore tra LM71 e SW/2.

Pertanto avremo che:

$$\text{Massa associata al peso proprio copertura} \quad G_1 = 25.00 \text{ kN/m}$$

$$\text{Massa associata al carico permanente} \quad G_2 = 13.50 \text{ kN/m}$$

$$\text{Massa treno} \quad Q_k = 56.52 \text{ kN/m}$$



$$\text{Massa associata al peso proprio piedritti} \quad G_3 = 25.00 \text{ kN/m}$$

$$\text{Massa associata al peso del setto centrale} \quad G_4 = 20.00 \text{ kN/m}$$

8.1.8.2 Forze sismiche orizzontali (SISMA_H)

Forza orizzontale sulla soletta di copertura (carico orizzontale uniformemente distribuito applicato alla soletta di copertura):

$$F'_h = k_h (G_1 + G_2 + \psi_{2i} Q_{ki}) = 14.69 \text{ kN/m}$$

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Forza orizzontale sui piedritti (carico orizzontale uniformemente distribuito applicato ai piedritti):

$$F''_h = k_h G_p = 7.38 \text{ kN/m}$$

8.1.8.3 Forze sismiche verticali (SISMA_V)

Per la forza sismica verticale avremo analogamente (carico verticale uniformemente distribuito applicato alla soletta di copertura):

Forza verticale sulla soletta di copertura:

$$F'_v = k_v (G_1 + G_2 + \psi_{2i} Q_{ki}) = 7.35 \text{ kN/m}$$

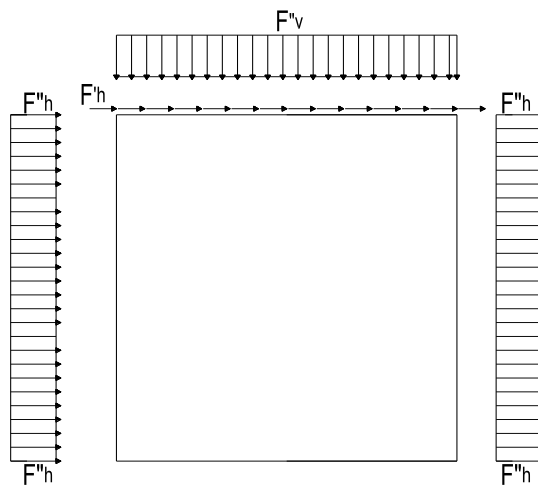


Figura 8.5: Forze sismiche agenti sulla struttura

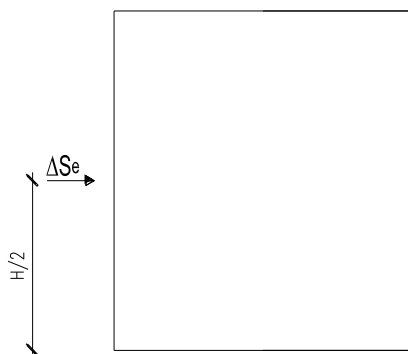
8.1.8.4 Spinta delle terre in fase sismica (SPSDX e SPSSX)

Le spinte delle terre sono state determinate con la teoria di Wood, secondo la quale la risultante dell'incremento di spinta per effetto del sisma su una parete di altezza H viene determinata con la seguente espressione:

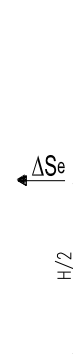
$$\Delta S_E = (a_{max}/g) \gamma \cdot H^2 = 331.9 \text{ kN/m}$$

con risultante applicata ad un'altezza pari ad H/2.

Sisma proveniente da sinistra



Sisma proveniente da destra





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Figura 4.6: Spinta sismica del terreno secondo la teoria di Wood

Nel modello di calcolo si è applicato il valore della forza sismica per unità di superficie agente su un piedritto, pari a:

$$\Delta_{SE} = \Delta_{SE} / H = 44.3 \text{ kN/m}^2$$

8.2 COMBINAZIONI DI CARICO

Ai fini delle verifiche degli stati limite si è fatto riferimento alle seguenti combinazioni delle azioni.

Combinazione fondamentale, generalmente impiegata per gli stati limite ultimi (SLU):

$$\gamma_{G1} \cdot G_1 + \gamma_{G2} \cdot G_2 + \gamma_P \cdot P + \gamma_{Q1} \cdot Q_{k1} + \gamma_{Q2} \cdot \psi_{02} \cdot Q_{k2} + \gamma_{Q3} \cdot \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione caratteristica (rara), generalmente impiegata per gli stati limite di esercizio (SLE) irreversibili:

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione frequente, generalmente impiegata per gli stati limite di esercizio (SLE) reversibili:

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione quasi permanente, generalmente impiegata per gli stati limite di esercizio (SLE) a lungo termine:

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E:

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Dove:



$$E = \pm 1.00 \times E_y \pm 0.30 \times E_z \quad \text{oppure} \quad E = \pm 0.30 \times E_y \pm 1.00 \times E_z$$

avendo indicato con E_y e E_z rispettivamente le componenti orizzontale e verticale dell'azione sismica.

Gli effetti dei carichi verticali, dovuti alla presenza dei convogli, vengono sempre combinati con le altre azioni derivanti dal traffico ferroviario, adottando i coefficienti di cui alla Tabella 5.2.IV del DM 14/01/2008 di seguito riportata. In particolare, per ogni gruppo viene individuata una azione dominante che verrà considerata per intero; per le altre azioni, vengono definiti diversi coefficienti di combinazione. Ogni gruppo massimizza una particolare condizione alla quale la struttura dovrà essere verificata.

Tabella 5.2.IV: Valutazione dei carichi da traffico (da DM 14/01/2008)

| TIPO DI CARICO | Azioni verticali | | Azioni orizzontali | | | COMMENTI |
|----------------|----------------------|---------------|-------------------------|------------|-----------|-------------------------------------|
| | Carico Verticale (1) | Treno Scarico | Frenatura ed Avviamento | Centrifuga | Serpeggio | |
| Gruppo 1 (2) | 1.0 | - | 0.5 (0.0) | 1.0 (0.0) | 1.0 (0.0) | massima azione verticale e laterale |
| Gruppo 2 (2) | - | 1.0 | 0.0 | 1.0 (0.0) | 1.0 (0.0) | stabilità laterale |

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| TIPO DI CARICO | Azioni verticali | | Azioni orizzontali | | | COMMENTI |
|----------------|------------------|----------------------|--------------------|-------------------------|----------------|------------------------------|
| | Gruppo di carico | Carico Verticale (1) | Treno Scarico | Frenatura ed Avviamento | Centrifuga | |
| Gruppo 3 (2) | 1.0 (0.5) | - | 1.0 | 0.5 (0.0) | 0.5 (0.0) | massima azione longitudinale |
| Gruppo 4 | 0.8 (0.6; 0.4) | - | 0.8 (0.6; 0.4) | 0.8 (0.6; 0.4) | 0.8 (0.6; 0.4) | fessurazione |
| | | Azione dominante | | | | |

(1) Includendo tutti i fattori ad essi relativi (Φ, α , ecc..)

(2) La simultaneità di due o tre valori caratteristici interi (assunzione di diversi coefficienti pari ad 1), sebbene improbabile, è stata considerata come semplificazione per i gruppi di carico 1, 2, 3 senza che ciò abbia significative conseguenze progettuali.

Nelle tabelle sopra riportate è indicato un coefficiente per gli effetti a sfavore di sicurezza e, tra parentesi, un coefficiente, minore del precedente, per gli effetti a favore di sicurezza.

I coefficienti di amplificazione dei carichi γ e i coefficienti di combinazione ψ sono riportati nelle tabelle seguenti.

In particolare nel calcolo della struttura scatolare si è fatto riferimento alla combinazione A1 STR.

Di seguito viene riportata la Tabella 5.2.III delle NTC08 dove si mostrano i carichi mobili in funzione del numero di binari presenti:



| Numero di binari | Binari Carichi | Traffico normale | | Traffico pesante ⁽²⁾ |
|------------------|----------------|-----------------------|-----------------------|---------------------------------|
| | | caso a ⁽¹⁾ | caso b ⁽¹⁾ | |
| 1 | Primo | 1,0 (LM 71"+SW/0) | - | 1,0 SW/2 |
| | Primo | 1,0 (LM 71"+SW/0) | - | 1,0 SW/2 |
| 2 | secondo | 1,0 (LM 71"+SW/0) | - | 1,0 (LM 71"+SW/0) |
| | Primo | 1,0 (LM 71"+SW/0) | 0,75 (LM 71"+SW/0) | 1,0 SW/2 |
| ≥3 | secondo | 1,0 (LM 71"+SW/0) | 0,75 (LM 71"+SW/0) | 1,0 (LM 71"+SW/0) |
| | Altri | - | 0,75 (LM 71"+SW/0) | - |

⁽¹⁾ LM71 "+ SW/0 significa considerare il più sfavorevole fra i treni LM 71, SW/0

⁽²⁾ Salvo i casi in cui sia esplicitamente escluso

Si riporta la Tabella 5.2.V delle NTC08 dei coefficienti parziali di sicurezza per le combinazioni di carico SLU:

Tabella 5.2.V – Coefficienti parziali di sicurezza per le combinazioni di carico agli SLU, eccezionali e sismica (da DM 14/01/2008)

| | | | | | |
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| | | Coefficiente | EQU ⁽¹⁾ | A1 STR | A2 GEO | Combinazione eccezionale | Combinazione Sismica |
|---|-------------|---------------|---------------------|---------------------|--------|--------------------------|----------------------|
| Carichi permanenti | favorevoli | γ_{G1} | 0,90 | 1,00 | 1,00 | 1,00 | 1,00 |
| | sfavorevoli | | 1,10 | 1,35 | 1,00 | 1,00 | 1,00 |
| Carichi permanenti non strutturali ⁽²⁾ | favorevoli | γ_{G2} | 0,00 | 0,00 | 0,00 | 1,00 | 1,00 |
| | sfavorevoli | | 1,50 | 1,50 | 1,30 | 1,00 | 1,00 |
| Ballast ⁽³⁾ | favorevoli | γ_B | 0,90 | 1,00 | 1,00 | 1,00 | 1,00 |
| | sfavorevoli | | 1,50 | 1,50 | 1,30 | 1,00 | 1,00 |
| Carichi variabili da traffico ⁽⁴⁾ | favorevoli | γ_Q | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | sfavorevoli | | 1,45 | 1,45 | 1,25 | 0,20 ⁽⁵⁾ | 0,20 ⁽⁵⁾ |
| Carichi variabili | favorevoli | γ_{Qi} | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | sfavorevoli | | 1,50 | 1,50 | 1,30 | 1,00 | 0,00 |
| Precompressione | favorevole | γ_P | 0,90 | 1,00 | 1,00 | 1,00 | 1,00 |
| | sfavorevole | | 1,00 ⁽⁶⁾ | 1,00 ⁽⁷⁾ | 1,00 | 1,00 | 1,00 |

(1) Equilibrio che non coinvolga i parametri di deformabilità e resistenza del terreno; altrimenti si applicano i valori di GEO.

(2) Nel caso in cui i carichi permanenti non strutturali (ad es. carichi permanenti portati) siano compiutamente definiti si potranno adottare gli stessi coefficienti validi per le azioni permanenti.

(3) Quando si prevedano variazioni significative del carico dovuto al ballast, se ne dovrà tener conto esplicitamente nelle verifiche.

(4) Le componenti delle azioni da traffico sono introdotte in combinazione considerando uno dei gruppi di carico gr della Tab. 5.2.IV.



(5) Aliquota di carico da traffico da considerare.

(6) 1,30 per instabilità in strutture con precompressione esterna

(7) 1,20 per effetti locali

Si riporta la Tabella 5.2.VI delle NTC08 in cui sono espressi i coefficienti di combinazione delle azioni:

Tabella 5.2.VI: Coefficienti di combinazione ψ delle azioni (da DM 14/01/2008)

| | | | | |
|---|---|-------------|----------------------------|---|
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Tab. 5.2.VI - Coefficienti di combinazione Ψ delle azioni

| Azioni | | ψ_0 | ψ_1 | ψ_2 |
|------------------|---|---------------------|---------------------|----------|
| Azioni singole | Carico sul rilevato a tergo delle spalle | 0,80 | 0,50 | 0,0 |
| da traffico | Azioni aerodinamiche generate dal transito dei convogli | 0,80 | 0,50 | 0,0 |
| | g_1 | 0,80 ⁽¹⁾ | 0,80 ⁽¹⁾ | 0,0 |
| Gruppi di | g_2 | 0,80 ⁽²⁾ | 0,80 ⁽¹⁾ | - |
| carico | g_3 | 0,80 ⁽²⁾ | 0,80 ⁽¹⁾ | 0,0 |
| | g_4 | 1,00 | 1,00 ⁽¹⁾ | 0,0 |
| Azioni del vento | F_{wk} | 0,60 | 0,50 | 0,0 |
| Azioni da | in fase di esecuzione | 0,80 | 0,0 | 0,0 |
| neve | SLU e SLE | 0,0 | 0,0 | 0,0 |
| Azioni termiche | T_k | 0,60 | 0,60 | 0,50 |

⁽¹⁾ 0,80 se è carico solo un binario, 0,60 se sono carichi due binari e 0,40 se sono carichi tre o più binari.

⁽²⁾ Quando come azione di base venga assunta quella del vento, i coefficienti ψ_0 relativi ai gruppi di carico delle azioni da traffico vanno assunti pari a 0,0.

Nella combinazione sismica le azioni indotte dal traffico ferroviario sono combinate con un coefficiente $\psi_2 = 0.2$ (paragrafo 5.1.3.12 del DM 14/01/2008) coerentemente con l'aliquota di massa afferente ai carichi da traffico.

Si riportano di seguito le combinazioni delle azioni maggiormente significative per la determinazione delle sollecitazioni più gravose.





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Tabella 5: Combinazioni di carico SLV (01-08)

| | SLV01 | SLV02 | SLV03 | SLV04 | SLV05 | SLV06 | SLV07 | SLV08 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| PP | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| PERM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SPTSX | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SPTDX | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SPTW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ACC_LM71 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| ACC_SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SPACCSX_LM71 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| SPACCDX_LM71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SPACCSX_SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SPACCDX_SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AVV_LM71 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| FREN_SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SERP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TERM | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 |
| RITIRO | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ACC_SOLINF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SISMA_H | 1 | 1 | -1 | -1 | 0.3 | 0.3 | -0.3 | -0.3 |
| SISMA_V | 0.3 | -0.3 | 0.3 | -0.3 | 1 | -1 | 1 | -1 |
| SPSSX | 1 | 1 | 0 | 0 | 0.3 | 0.3 | 0 | 0 |
| SPSDX | 0 | 0 | 1 | 1 | 0 | 0 | 0.3 | 0.3 |

Tabella 6: Combinazioni di carico SLV (09-16)

| | SLV09 | SLV10 | SLV11 | SLV12 | SLV13 | SLV14 | SLV15 | SLV16 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| PP | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| PERM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SPTSX | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SPTDX | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SPTW | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ACC_LM71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ACC_SW2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| SPACCSX_LM71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SPACCDX_LM71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SPACCSX_SW2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| SPACCDX_SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AVV_LM71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FREN_SW2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| SERP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TERM | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 |
| RITIRO | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ACC_SOLINF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SISMA_H | 1 | 1 | -1 | -1 | 0.3 | 0.3 | -0.3 | -0.3 |
| SISMA_V | 0.3 | -0.3 | 0.3 | -0.3 | 1 | -1 | 1 | -1 |
| SPSSX | 1 | 1 | 0 | 0 | 0.3 | 0.3 | 0 | 0 |
| SPSDX | 0 | 0 | 1 | 1 | 0 | 0 | 0.3 | 0.3 |

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9 CRITERI DI VERIFICA STRUTTURALI

Le verifiche di sicurezza strutturali sono state effettuate sulla base dei criteri definiti nelle vigenti norme tecniche - "Norme Tecniche per le Costruzioni"- DM 14.1.2008 -, tenendo inoltre conto delle integrazioni riportate nel "Manuale di progettazione delle opere civili".

In particolare vengono effettuate le verifiche agli stati limite di servizio, riguardanti gli stati tensionale e di fessurazione, ed allo stato limite ultimo. Le combinazioni di carico considerate ai fini delle verifiche sono quelle indicate nei precedenti paragrafi.

Si espongono di seguito i criteri di verifica adottati per le verifiche degli elementi strutturali in c.a..

9.1 VERIFICA AGLI STATI LIMITE DI ESERCIZIO

9.1.1 Verifica a fessurazione

Le verifiche a fessurazione sono eseguite adottando i criteri definiti nel paragrafo 4.1.2.2.4.5 del DM 14.1.2008, tenendo inoltre conto delle ulteriori prescrizioni riportate nel "Manuale di progettazione delle opere civili RFI".

Con riferimento alle classi di esposizione delle varie parti della struttura (si veda il paragrafo relativo alle caratteristiche dei materiali impiegati), alle corrispondenti condizioni ambientali ed alla sensibilità delle armature alla corrosione (armature sensibili per gli acciai da precompresso; poco sensibili per gli acciai ordinari), si individua lo stato limite di fessurazione per assicurare la funzionalità e la durata delle strutture, in accordo con il DM 14.1.2008:



Le verifiche a fessurazione sono eseguite adottando i criteri definiti nel paragrafo 4.1.2.2.4.5 del DM 14.1.2008.

Con riferimento alle classi di esposizione delle varie parti della struttura (si veda il paragrafo relativo alle caratteristiche dei materiali impiegati), alle corrispondenti condizioni ambientali ed alla sensibilità delle armature alla corrosione (armature sensibili per gli acciai da precompresso; poco sensibili per gli acciai ordinari), si individua lo stato limite di fessurazione per assicurare la funzionalità e la durata delle strutture, in accordo con il DM 14.1.2008:

| Gruppi di esigenze | Condizioni ambientali | Combinazione di azioni | Armatura | | | |
|--------------------|-----------------------|------------------------|--------------------|------------|----------------|------------|
| | | | Sensibile | | Poco sensibile | |
| | | | Stato limite | w_d | Stato limite | w_d |
| a | Ordinarie | frequente | ap. fessure | $\leq w_2$ | ap. fessure | $\leq w_3$ |
| | | quasi permanente | ap. fessure | $\leq w_1$ | ap. fessure | $\leq w_2$ |
| b | Aggressive | frequente | ap. fessure | $\leq w_1$ | ap. fessure | $\leq w_2$ |
| | | quasi permanente | decompressione | - | ap. fessure | $\leq w_1$ |
| c | Molto aggressive | frequente | formazione fessure | - | ap. fessure | $\leq w_1$ |
| | | quasi permanente | decompressione | - | ap. fessure | $\leq w_1$ |

Figura 5.1: Criteri di scelta dello stato limite di fessurazione - Tabella 4.1.IV del DM 14.1.2008

Nella Tabella sopra riportata, $w_1=0.2\text{mm}$, $w_2=0.3\text{mm}$; $w_3=0.4\text{mm}$.

| | | | | |
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Più restrittivi risultano i limiti di apertura delle fessure riportati nel “Manuale di progettazione delle opere civili”. L’apertura convenzionale delle fessure, calcolata con la combinazione caratteristica (rara) per gli SLE, deve risultare:

- a) $\delta_f \leq w_1$ per strutture in condizioni ambientali aggressive e molto aggressive, così come identificate nel par. 4.1.2.2.4.3 del DM 14.1.2008, per tutte le strutture a permanente contatto con il terreno e per le zone non ispezionabili di tutte le strutture;
- b) $\delta_f \leq w_2$ per strutture in condizioni ambientali ordinarie secondo il citato paragrafo del DM 14.1.2008.

Si assume pertanto per tutti gli elementi strutturali analizzati nel presente documento:

- Stato limite di fessurazione: $w_d \leq w_1 = 0.2$ mm - combinazione di carico rara

In accordo con la normativa seguita, il valore di calcolo di apertura delle fessure w_d è dato da:

$$w_d = 1,7 w_m$$

dove w_m rappresenta l’ampiezza media delle fessure calcolata come prodotto della deformazione media delle barre d’armatura ε_{sm} per la distanza media tra le fessure Δ_{sm} :

$$w_m = \varepsilon_{sm} \Delta_{sm}$$

Per il calcolo di ε_{sm} e Δ_{sm} vanno utilizzati i criteri consolidati riportati nella letteratura tecnica.

9.1.2 Verifica delle tensioni in esercizio

Valutate le azioni interne nelle varie parti della struttura, dovute alle combinazioni caratteristica e quasi permanente delle azioni, si calcolano le massime tensioni sia nel calcestruzzo sia nelle armature; si verifica che tali tensioni siano inferiori ai massimi valori consentiti, di seguito riportati.

Le prescrizioni riportate di seguito fanno riferimento al par. 2.5.1.8.3.2.1 del “Manuale di progettazione delle opere civili”.

La massima tensione di compressione del calcestruzzo σ_c , deve rispettare la limitazione seguente:



$$\sigma_c < 0,55 f_{ck} \text{ per combinazione caratteristica (rara)}$$

$$\sigma_c < 0,40 f_{ck} \text{ per combinazione quasi permanente.}$$

Per l’acciaio ordinario, la tensione massima σ_s per effetto delle azioni dovute alla combinazione caratteristica deve rispettare la limitazione seguente:

$$\sigma_s < 0,75 f_{yk}$$

dove f_{yk} per armatura ordinaria è la tensione caratteristica di snervamento dell’acciaio.

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9.2 VERIFICA AGLI STATI LIMITE ULTIMI

9.2.1 Sollecitazioni flettenti

La verifica di resistenza (SLU) è stata condotta attraverso il calcolo dei domini di interazione N-M, ovvero il luogo dei punti rappresentativi di sollecitazioni che portano in crisi la sezione di verifica secondo i criteri di resistenza da normativa.

Nel calcolo dei domini sono state mantenute le consuete ipotesi, tra cui:

- conservazione delle sezioni piane;
- legame costitutivo del calcestruzzo parabola-rettangolo non reagente a trazione, con plateau ad una deformazione pari a 0.002 e a rottura pari a 0.0035 ($\sigma_{max} = 0.85 \times 0.83 \times R_{ck} / 1.5$);
- legame costitutivo dell'armatura d'acciaio elastico-perfettamente plastico con deformazione limite di rottura a 0.01 ($\sigma_{max} = f_{yk} / 1.15$)

9.2.2 Sollecitazioni taglianti

La resistenza a taglio V_{Rd} di elementi sprovvisti di specifica armatura è stata calcolata sulla base della resistenza a trazione del calcestruzzo.

Con riferimento all'elemento fessurato da momento flettente, la resistenza al taglio si valuta con:

$$V_{Rd} = \left\{ 0,18 \cdot k \cdot (100 \cdot \rho_1 \cdot f_{ck})^{1/3} / \gamma_c + 0,15 \cdot \sigma_{cp} \right\} \cdot b_w \cdot d \geq (v_{min} + 0,15 \cdot \sigma_{cp}) \cdot b_w \cdot d$$

con:

$$k = 1 + (200/d)^{1/2} \leq 2$$

$$v_{min} = 0,035 k^{3/2} f_{ck}^{1/2}$$

e dove:

d è l'altezza utile della sezione (in mm);

$\rho_1 = A_{sl} / (b_w \times d)$ è il rapporto geometrico di armatura longitudinale ($\leq 0,02$);



$\sigma_{cp} = N_{Ed} / A_c$ è la tensione media di compressione nella sezione ($\leq 0,2 f_{cd}$);

b_w è la larghezza minima della sezione (in mm).

La resistenza a taglio V_{Rd} di elementi strutturali dotati di specifica armatura a taglio deve essere valutata sulla base di una adeguata schematizzazione a traliccio. Gli elementi resistenti dell'ideale traliccio sono: le armature trasversali, le armature longitudinali, il corrente compresso di calcestruzzo e i puntoni d'anima inclinati. L'inclinazione θ dei puntoni di calcestruzzo rispetto all'asse della trave deve rispettare i limiti seguenti:

$$1 \leq \text{ctg } \theta \leq 2.5$$

La verifica di resistenza (SLU) si pone con:

| | | | | |
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$$V_{Rd} \geq V_{Ed}$$

dove V_{Ed} è il valore di calcolo dello sforzo di taglio agente.

Con riferimento all'armatura trasversale, la resistenza di calcolo a "taglio trazione" è stata calcolata con:

$$V_{Rsd} = 0,9 \cdot d \cdot \frac{A_{sw}}{s} \cdot f_{yd} \cdot (\text{ctg}\alpha + \text{ctg}\theta) \cdot \sin\alpha$$

Con riferimento al calcestruzzo d'anima, la resistenza di calcolo a "taglio compressione" è stata calcolata con:



$$V_{Rcd} = 0,9 \cdot d \cdot b_w \cdot \alpha_c \cdot f'_{cd} \cdot (\text{ctg}\alpha + \text{ctg}\theta) / (1 + \text{ctg}^2\theta)$$

La resistenza al taglio della trave è la minore delle due sopra definite:

$$V_{Rd} = \min (V_{Rsd}, V_{Rcd})$$

In cui:

- d è l'altezza utile della sezione;
- b_w è la larghezza minima della sezione;
- s_{cp} è la tensione media di compressione della sezione;
- A_{sw} è l'area dell'armatura trasversale;
- S è interasse tra due armature trasversali consecutive;
- θ è l'angolo di inclinazione dell'armatura trasversale rispetto all'asse della trave;
- f'_{cd} è la resistenza a compressione ridotta del calcestruzzo d'anima ($f'_{cd}=0.5f_{cd}$);
- α è un coefficiente maggiorativo, pari ad 1 per membrature non compresse.

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10 MODELLAZIONE STRUTTURALE

10.1 CODICE DI CALCOLO

L'analisi della struttura scatolare è stata condotta con un programma agli elementi finiti (STRAUS7) facendo riferimento agli assi baricentrici degli elementi schematizzati con elementi "beam".

10.2 MODELLO DI CALCOLO

Le analisi sono state condotte per una striscia di struttura di lunghezza unitaria, implementando un modello di calcolo bidimensionale in condizioni di deformazione piana. La struttura è definita sulla base degli assi baricentrici degli elementi. La fondazione è schematizzata come una trave su suolo elastico alla Winkler non reagente a trazione, il calcolo della costante di sottofondo è riportata nel paragrafo **Errore. L'origine riferimento non è stata trovata.**

Lo schema statico della struttura e la relativa numerazione dei nodi e delle aste sono riportati nelle seguenti figure.

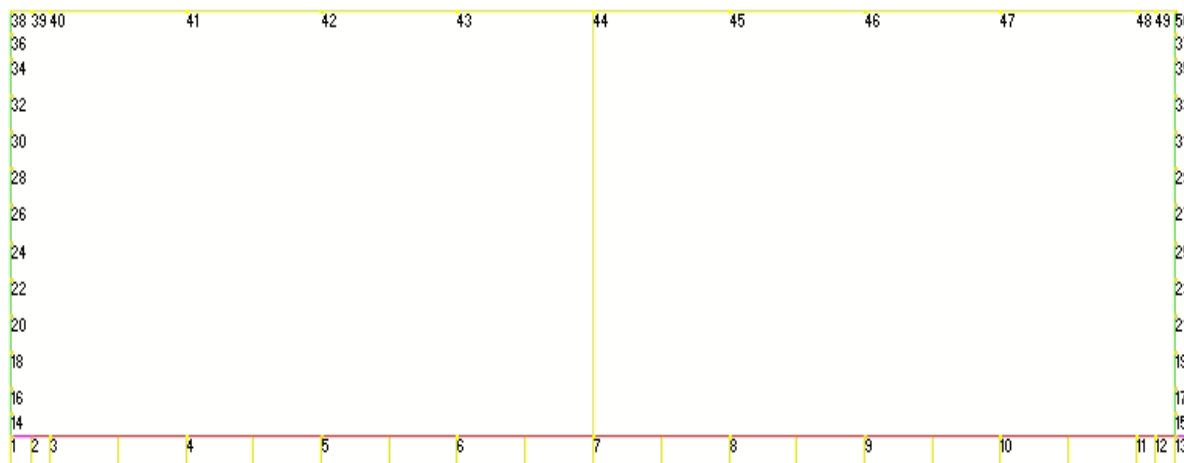




Figura 6.1: Modello F.E.M struttura - numerazione nodi

| | | | | |
|---|---|---------------------|------------------------------------|----------|
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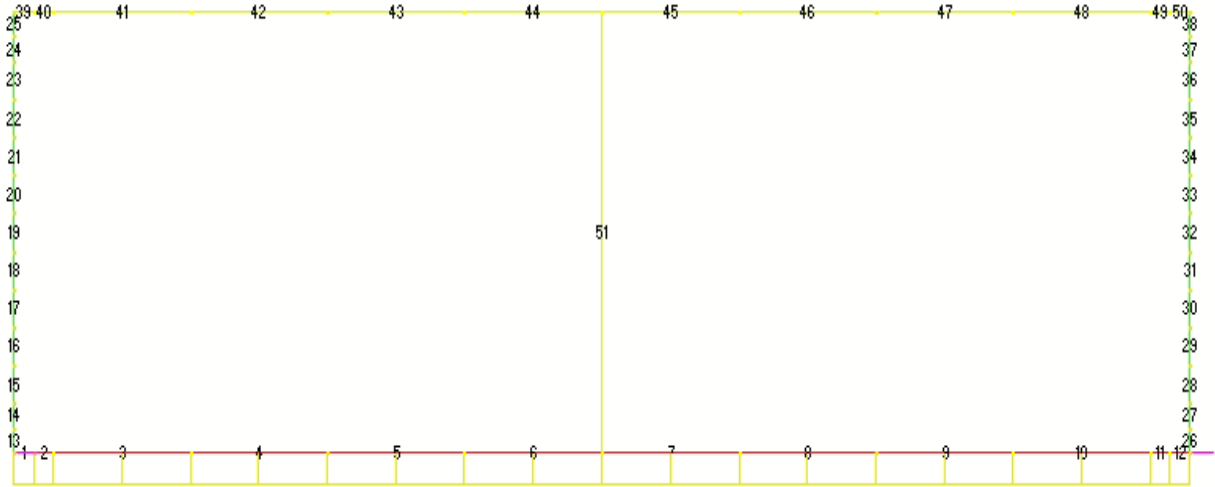


Figura 7: Modello F.E.M. struttura – numerazione aste

10.3 INTERAZIONE TERRENO-STRUTTURA

L'interazione struttura-terreno è simulata mediante l'applicazione sugli elementi interessati di un sistema di molle alla Winkler, definite assumendo cautelativamente un modulo di reazione verticale K_v pari a 4000 kN/m^3 : il calcolo della costante di Winkler è stato condotto applicando il procedimento proposto da Vesic e riportato da Bowles nel testo "Fondazioni", secondo la seguente formulazione:

$$k_s = \frac{E}{B(1-\mu^2)I_s I_F}$$

dove:

E = modulo elastico medio dello spessore di terreno sottostante la fondazione;

B = larghezza della fondazione;

μ = coefficiente di Poisson del terreno di fondazione, assunto pari a 0.3.

Il valore del coefficiente di influenza I_s è stato calcolato attraverso la seguente equazione:

$$I_s = I_1 + \frac{1-2\mu}{1-\mu} I_2$$



dove:

I_1 e I_2 = coefficienti dipendenti dai rapporti H/B' e L/B ;

H = spessore dello strato compressibile, pari a $5B$;

B' = larghezza corrispondente al punto di calcolo assunto coincidente con il centro della fondazione, pari a $B/2$.

Il valore del coefficiente di influenza I_F è stato estrapolato in funzione dei valori dei rapporti L/B e D/B .

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|---|---|---------------------|------------------------------------|----------|
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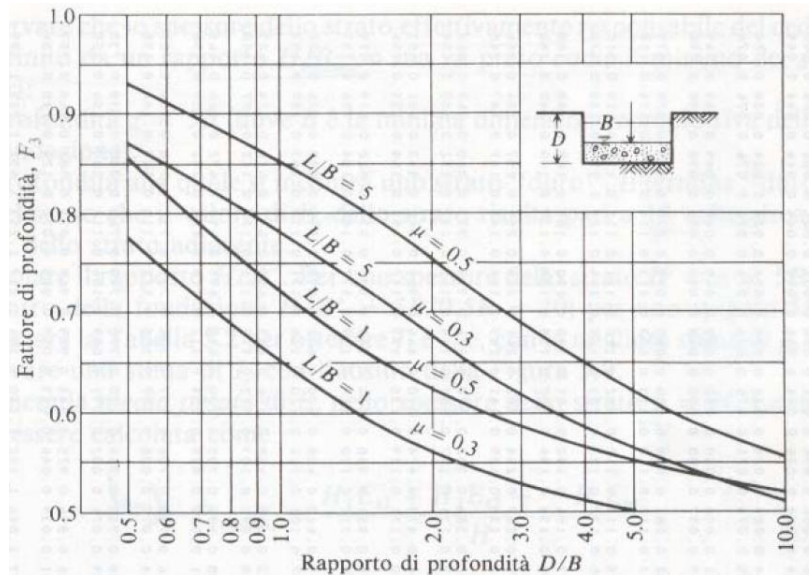


Figura 10.3: Grafico per la determinazione del fattore di profondità F_s

Le tabelle seguenti riportano le grandezze caratteristiche dell'opera.

| Larghezza fondazione - B (m) | Profondità fondazione - D (m) | Lunghezza fondazione - L (m) | Modulo elastico - E_s (kPa) |
|------------------------------|-------------------------------|------------------------------|-------------------------------|
| 16.6 | 8.35 | 12.7 | 8000 |

| D/B | L/B | H/B' |
|------|------|------|
| 0.50 | 0.77 | 2.50 |

| H | μ |
|------|-------|
| 83.0 | 0.3 |



La tabella seguente riporta i parametri l_1 , l_2 , l_s e l_f .

| l_1 | l_2 | l_s | l_f |
|-------|-------|-------|-------|
| 0.198 | 0.043 | 0.223 | 0.75 |

La tabella seguente riassume il valore calcolato della costante di sottofondo (k_s) e il valore assunto nei calcoli strutturali successivi.

| k_s (daN/cm ³) | $k_{s\text{-assunto}}$ (daN/cm ³) |
|------------------------------|---|
| 0.3173 | 0.4000 |

Il valore impiegato della k_s è stato indicato dai progettisti di linea.

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11 ANALISI DELLE SOLLECITAZIONI

Nelle seguenti tabelle sono riportati i valori massimi delle caratteristiche delle sollecitazioni ricavati per le sezioni oggetto di verifica, indicate in figura.

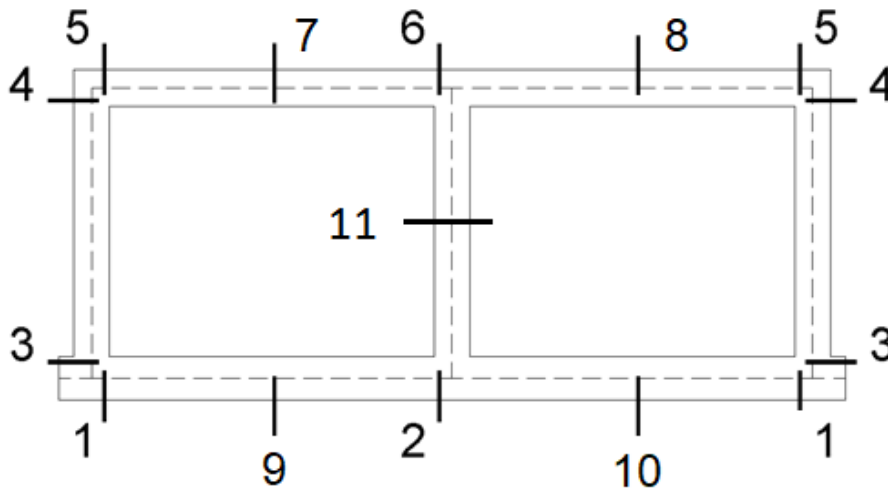


Figura 8: Sezioni di verifica

Di seguito è riportato l'involuppo delle sollecitazioni flettenti e taglianti dello stato limite ultimo. Le unità di misura adottate nei diagrammi seguenti sono kN-m.

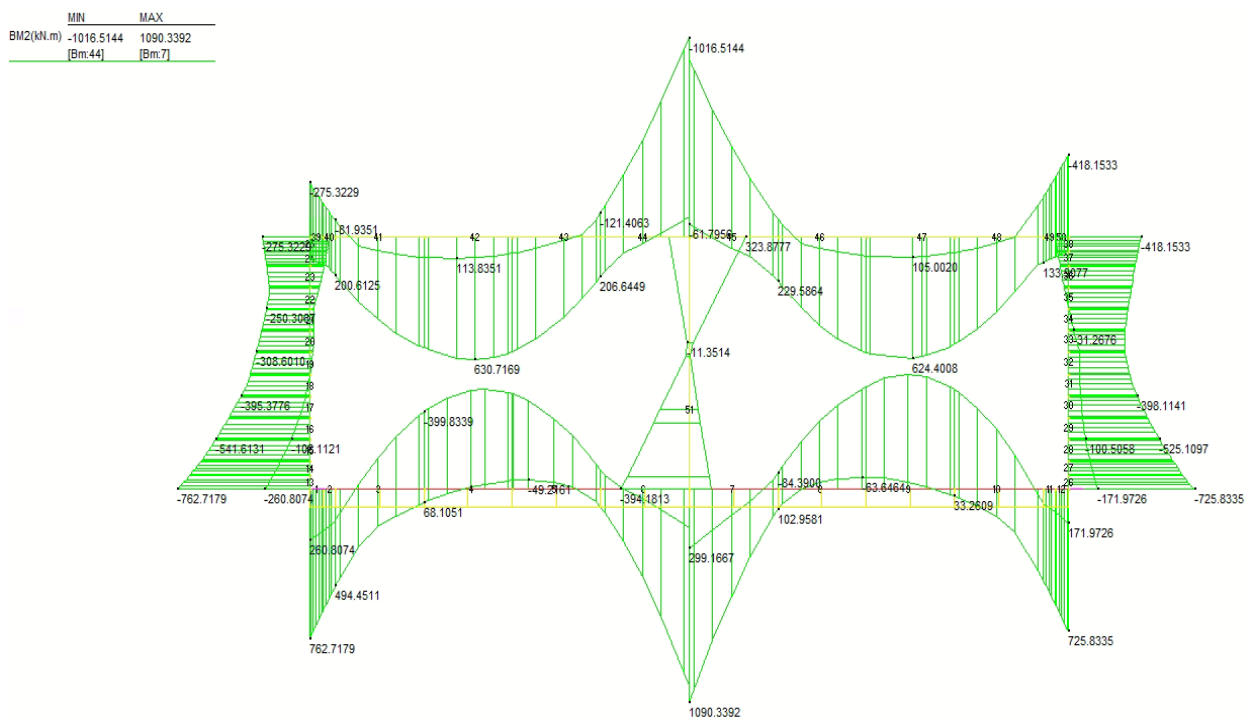




Figura 9: Involuppo SLU/Sisma: momenti flettenti

| | | | | |
|---|---|-------------|----------------------------|---|
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| | MIN | MAX |
|---------|-----------|----------|
| SF2(kN) | -753.6393 | 681.8924 |
| | [Bm.7] | [Bm.6] |

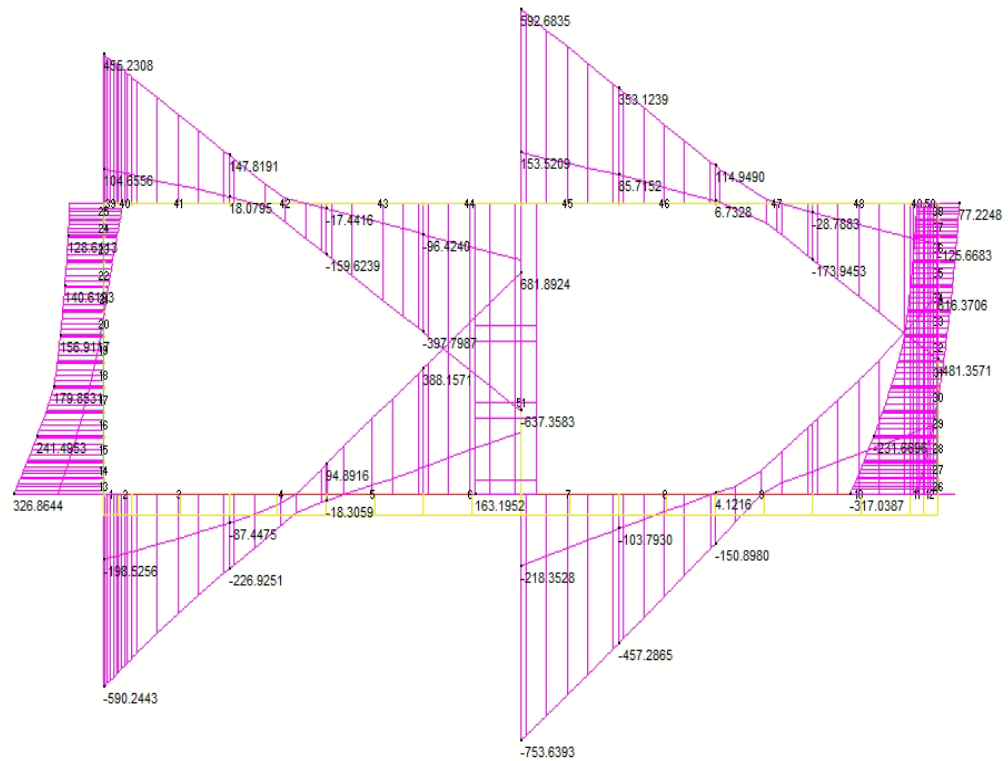


Figura 10 Inviluppo SLU/Sisma: sollecitazioni taglianti

| | MIN | MAX |
|-----------|------------|----------|
| Force(kN) | -1340.7324 | 130.6038 |
| | [Bm.51] | [Bm.45] |

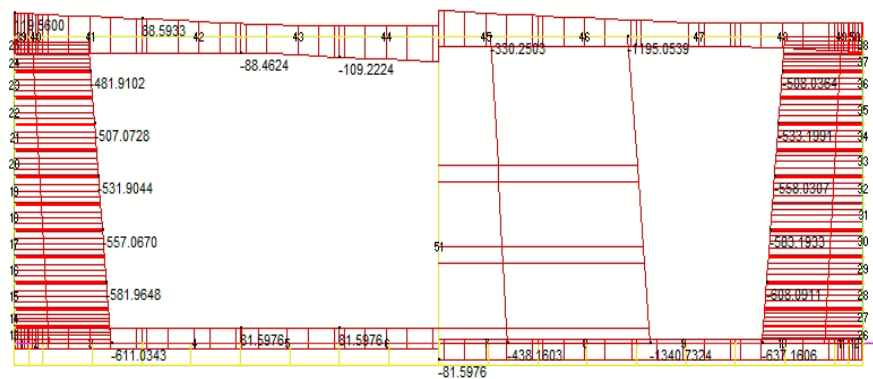


Figura 11 Inviluppo SLU/Sisma: sforzo normale

| | MIN | MAX |
|-----------|-----------|----------|
| BM2(KN.m) | -660.6848 | 711.1737 |
| | [Bm.44] | [Bm.7] |

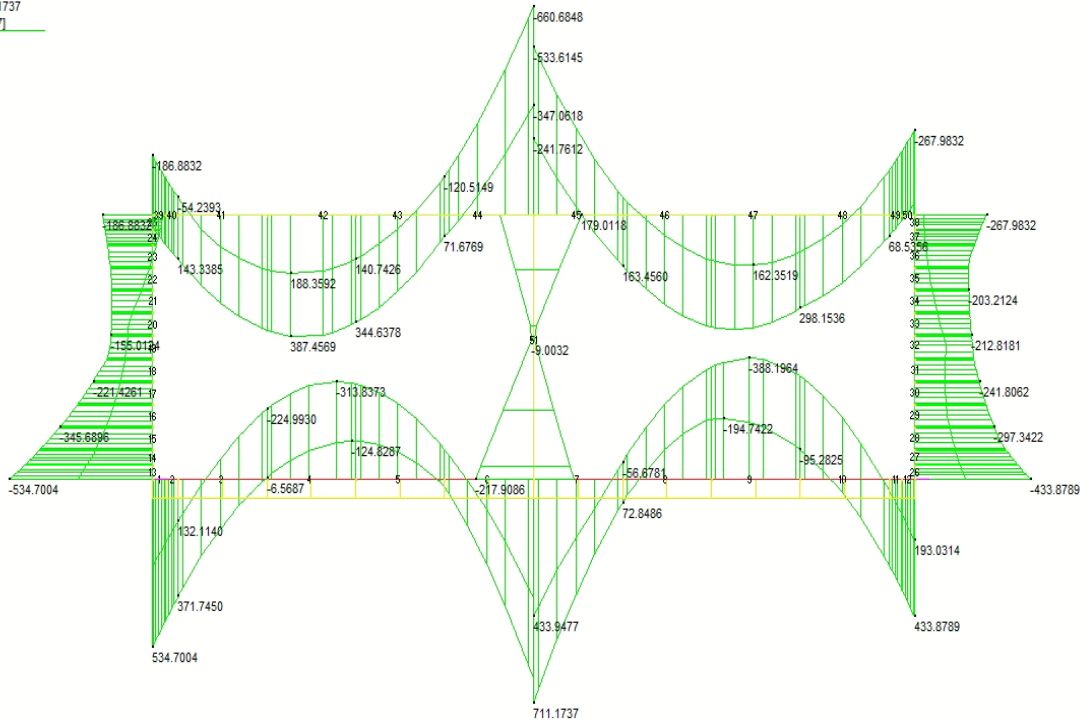


Figura 12 Involuppo SLE Momenti flettenti

| | MIN | MAX |
|---------|-----------|----------|
| SF2(KN) | -503.1155 | 447.0047 |
| | [Bm.7] | [Bm.6] |

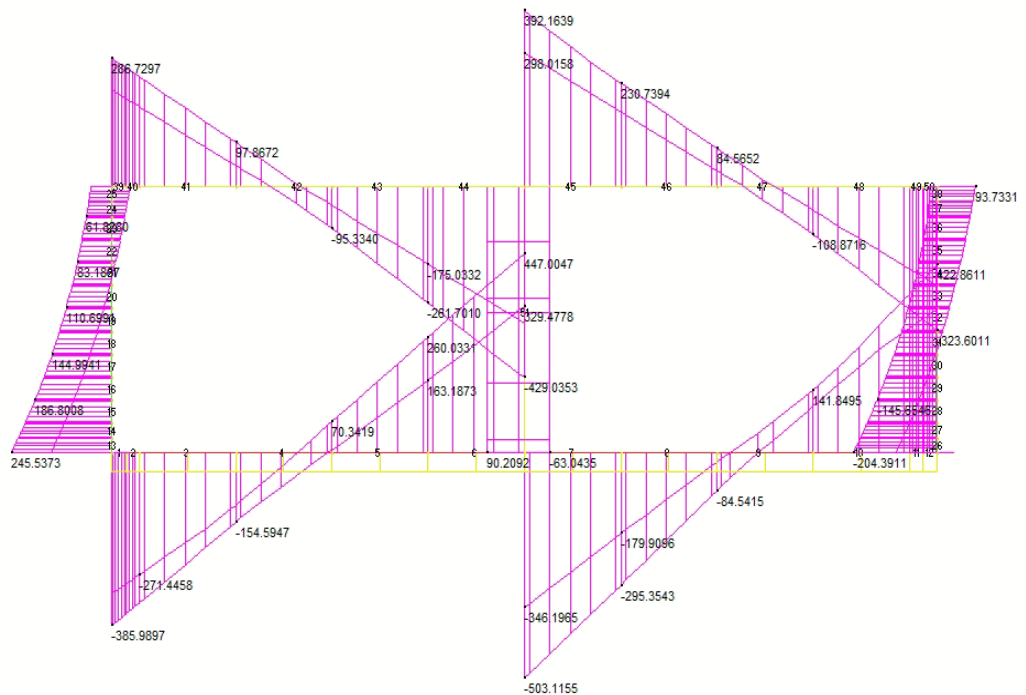




Figura 13 Involuppo SLE: sollecitazioni taglianti

| | | | | |
|---|---|-------------|----------------------------|---|
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Di seguito si riportano i valori delle sollecitazioni per tutte le combinazioni di carico relative a tutte le sezioni di verifica.



| COP_MEZZ | N | Mx | Vy |
|-----------------|----------|-----------|-----------|
| | (KN) | (KNm) | (KNm) |
| SLU | 285 | 1110 | 500 |
| SLV | 140 | 465 | 200 |
| SLE RARA | 165 | 685 | - |
| SLE FREQUENTE | 180 | 590 | - |
| SLE QUASI PERM. | 120 | 295 | - |

| COP_INC | N | Mx | Vy |
|-----------------|----------|-----------|-----------|
| | (KN) | (KNm) | (KNm) |
| SLU | 420 | -2320 | 950 |
| SLV | 210 | -825 | 350 |
| SLE RARA | 205 | -1580 | - |
| SLE FREQUENTE | 165 | -1445 | - |
| SLE QUASI PERM. | 120 | -715 | - |

| FOND_MEZZ | N | Mx | Vy |
|------------------|----------|-----------|-----------|
| | (KN) | (KNm) | (KNm) |
| SLU | 0 | -890 | 450 |
| SLV | 0 | -635 | 185 |
| SLE RARA | 0 | -850 | - |
| SLE FREQUENTE | 0 | -765 | - |
| SLE QUASI PERM. | 0 | -400 | - |

| FOND_INC | N | Mx | Vy |
|-----------------|----------|-----------|-----------|
| | (KN) | (KNm) | (KNm) |
| SLU+ | 0 | 2130 | 685 |
| SLV | 0 | 805 | 215 |
| SLE RARA | 0 | 1385 | - |
| SLE FREQUENTE | 0 | 1280 | - |
| SLE QUASI PERM. | 0 | 605 | - |

| PIEDR_PIEDE | N | Mx | Vy |
|--------------------|----------|-----------|-----------|
| | (KN) | (KNm) | (KNm) |
| SLU | 215 | -2130 | 625 |
| SLV | 100 | -805 | 345 |
| SLE RARA | 135 | -1385 | - |
| SLE FREQUENTE | 115 | -1280 | - |
| SLE QUASI PERM. | 100 | -605 | - |
| PIEDR_TESTA | N | Mx | Vy |
| | (KN) | (KNm) | (KNm) |
| SLU | 195 | -2320 | 495 |
| SLV | 10 | -825 | 205 |

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|---|---|-------------|----------------------------|---|
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| | | | |
|-----------------|----|-------|---|
| SLE RARA | 75 | -1580 | - |
| SLE FREQUENTE | 55 | -1445 | - |
| SLE QUASI PERM. | 5 | -715 | - |



| PIEDR_MEZZ | N | M _x | V _y |
|-----------------|------|----------------|----------------|
| | (KN) | (KNm) | (KNm) |
| SLU | 160 | -420 | 555 |
| SLV | 55 | 100 | 250 |
| SLE RARA | 105 | -240 | - |
| SLE FREQUENTE | 85 | -50 | - |
| SLE QUASI PERM. | 55 | -15 | - |

| SETTO CENTRALE | N | M _x | V _y |
|-----------------|------|----------------|----------------|
| | (KN) | (KNm) | (KNm) |
| SLU | 820 | -730 | 250 |
| SLV | 690 | -405 | 150 |
| SLE RARA | 1120 | -415 | - |
| SLE FREQUENTE | 1120 | -240 | - |
| SLE QUASI PERM. | 610 | - | - |

12 VERIFICHE DI DEFORMAZIONE E VIBRAZIONE

12.1 INFLESSIONE NEL PIANO VERTICALE DELL'IMPALCATO

In base a quanto indicato nel paragrafo 1.7.4.3.4. del MpD 2017 FS, nonché nel D.M. 14.01.08 (paragrafo 5.2.3.2.2), considerando la presenza del treno di carico LM71, incrementato con il

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corrispondente coefficiente e con il coefficiente α e gli effetti della variazione di temperatura lineare, l'inflessione nel piano orizzontale dell'impalcato non deve produrre all'estremità dell'impalcato una variazione angolare maggiore di $\theta_{amm} = 0.001500$ rad.

Per quanto riguarda le rotazioni attribuibili alla presenza del treno di carico LM71, esse sono valutate sui nodi estremi della soletta superiore e in corrispondenza del piedritto interno, se presente, depurate della rototraslazione rigida della struttura.

Nel caso in esame risulta:

$$\theta_{tot} = 0.00117 \text{ rad} \ll \theta_{amm} = 0.001500 \text{ rad}$$

12.2 STATO LIMITE DI COMFORT DEI PASSEGGERI



L'inflessione verticale deve calcolarsi in asse al binario, considerando il modello di carico LM71 con il relativo incremento dinamico e con il coefficiente α .

Freccia limite ammissibile (velocità del treno $V > 350\text{km/h}$):

$$\delta_{lim} = 1/1500 \times L = 4.60 \text{ mm}$$

Freccia massima dell'impalcato prodotta dal treno LM71:

$$\delta_{max} = 4.03 \text{ mm} < \delta_{lim}$$

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13 VERIFICHE DI RESISTENZA ULTIMA E DI ESERCIZIO

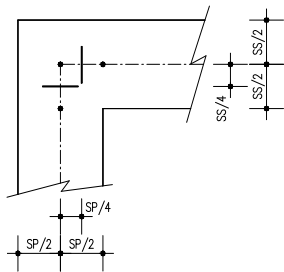
Si riassumono di seguito i risultati delle verifiche allo stato limite ultimo per le sollecitazioni di taglio e flessione, relative all'involuppo delle combinazioni di carico. In particolare si riportano le sollecitazioni massime per tutte le sezioni di verifica e le combinazioni di carico più gravose (minimo coefficiente di sicurezza), sia per la verifica a flessione sia per la verifica a taglio.

Nelle verifiche della soletta di fondazione, cautelativamente, non si è tenuto in conto del contributo dello sforzo normale.

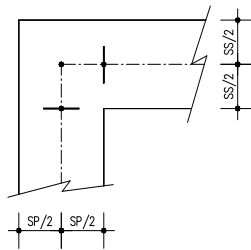
Le verifiche a flessione in corrispondenza dei nodi tra setti adiacenti sono effettuate rispettivamente:

- nella sezione ubicata a metà fra asse piedritto e sezione d'attacco piedritto-soletta nel caso delle verifiche della soletta;
- nella sezione ubicata a metà fra asse soletta e sezione d'attacco del piedritto nel caso delle verifiche del piedritto.

Le verifiche a fessurazione e a taglio sono eseguite nelle sezioni di attacco soletta-piedritto.



VERIFICHE A FLESSIONE





VERIFICHE A FESSURAZIONE E TAGLIO

I calcoli di verifica sono effettuati con il metodo degli Stati Limite.

Si riporta di seguito l'armatura degli elementi strutturali nelle sezioni di mezzera e di incastro.

| Elemento | Sezione | Dimensioni [cm] | | Flessione | | Armatura a taglio | Ripartitori (esterni) |
|----------------|----------|-----------------|-----|----------------------------------|--------------|---------------------|-----------------------|
| | | B | H | Lato terra | Lato interno | | |
| SOLETTA SUP. | INCASTRO | 100 | 100 | (10+5)φ24 [su tutti i piedritti] | | φ12/20x40 | φ16/20 |
| | MEZZERIA | | | 5φ24 | 10φ24 | | |
| PIEDRITTI | TESTA | 100 | 100 | (10+5)φ24 | | 9φ12/m ² | φ16/20 |
| | MEZZERIA | | | 5φ24 | | | |
| | PIEDE | | | (10+5)φ24 | | | |
| SETTO CENTRALE | INCASTRO | 100 | 80 | 5φ24 | 5φ24 | 9φ12/m ² | φ16/20 |
| SOLETTA INF. | INCASTRO | 100 | 100 | (10+5)φ24 | | φ12/20x40 | φ16/20 |
| | MEZZERIA | | | 5φ24 | 10φ24 | | |

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13.1 SOLETTA SUPERIORE – SEZIONE DI MEZZERIA

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO

| | |
|----------------------|------------|
| Forma del Dominio: | Poligonale |
| Classe Calcestruzzo: | C32/40 |

| N°vertice: | X [cm] | Y [cm] |
|------------|--------|--------|
| 1 | 100.0 | 100.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 100.0 |



DATI BARRE ISOLATE

| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
|---------|--------|--------|-----------|
| 1 | 91.0 | 91.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 91.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

| | | | | |
|--------------|---|--|--|--|
| N°Gen. | Numero assegnato alla singola generazione lineare di barre | | | |
| N°Barra Ini. | Numero della barra iniziale cui si riferisce la generazione | | | |
| N°Barra Fin. | Numero della barra finale cui si riferisce la generazione | | | |
| N°Barre | Numero di barre generate equidistanti cui si riferisce la generazione | | | |
| Ø | Diametro in mm delle barre della generazione | | | |

| N°Gen. | N°Barra Ini. | N°Barra Fin. | N°Barre | Ø |
|--------|--------------|--------------|---------|----|
| 1 | 1 | 4 | 3 | 24 |

| | | | | | |
|---|--|---|-------|----------------|---|
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| | | IN17 | 12 | EI2CLSL0900001 | A |

2 2 3 8 24

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|---------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 285.00 | 1110.00 | 0.00 | 0.00 | 0.00 |
| 2 | 140.00 | 465.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|--------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 165.00 | 685.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|-----------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 210.00 | 590.00 (679.68) | 0.00 (0.00) |

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA



| | | | |
|---------|--|-----------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 120.00 | 295.00 (686.16) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali: 7.8 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

| | | | | |
|---|--|---|-------|----------------|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | |
| | | Progetto | Lotto | Codifica |
| | | IN17 | 12 | EI2CLSL0900001 |
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Ver S = combinazione verificata / N = combin. non verificata
N Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione)
Mx Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia
My Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia
N Res Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.)
Mx Res Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia
My Res Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia
Mis.Sic. Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My)
Verifica positiva se tale rapporto risulta >=1.000
As Tesa Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC]

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|--------|---------|------|--------|---------|--------|----------|---------|
| 1 | S | 285.00 | 1110.00 | 0.00 | 284.85 | 1642.30 | 0.00 | 1.48 | |
| 45.2(17.9) | | | | | | | | | |
| 2 | S | 140.00 | 465.00 | 0.00 | 140.28 | 1583.21 | 0.00 | 3.39 | |
| 45.2(17.9) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

ec max Deform. unit. massima del calcestruzzo a compressione
x/d Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45
Xc max Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
Yc max Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
es min Deform. unit. minima nell'acciaio (negativa se di trazione)
Xs min Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
Ys min Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max Deform. unit. massima nell'acciaio (positiva se di compress.)
Xs max Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)
Ys max Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|---------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.125 | 100.0 | 100.0 | 0.00072 | 91.0 | 91.0 | -0.02457 | 9.0 | 9.0 |
| 2 | 0.00350 | 0.119 | 100.0 | 100.0 | 0.00059 | 91.0 | 91.0 | -0.02597 | 9.0 | 9.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA

a, b, c Coeff. a, b, c nell'eq. dell'asse neutro $aX+bY+c=0$ nel rif. X,Y,O gen.
x/d Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
C.Rid. Coeff. di riduz. momenti per sola flessione in travi continue

| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|-------------|--------------|-------|--------|
| 1 | 0.000000000 | 0.000308499 | -0.027349893 | 0.125 | 0.700 |
| 2 | 0.000000000 | 0.000323827 | -0.028882725 | 0.119 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

Ver S = comb. verificata/ N = comb. non verificata
Sc max Massima tensione (positiva se di compressione) nel calcestruzzo [MPa]
Xc max, Yc max Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O)
Ss min Minima tensione (negativa se di trazione) nell'acciaio [MPa]
Xs min, Ys min Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O)
Ac eff. Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre
As eff. Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 5.40 | 100.0 | 100.0 | -168.3 | 18.1 | 9.0 | 2250 | 45.2 |

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| | | | | | |
|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

| | |
|-------------|--|
| Ver. | La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm} |
| e1 | Esito della verifica |
| e2 | Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| k1 | Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2] |
| kt | = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2] |
| k2 | = 0.5 per flessione; $= (e1 + e2)/(2 \cdot e1)$ per trazione eccentrica [eq.(7.13)EC2] |
| k3 | = 3.400 Coeff. in eq.(7.11) come da annessi nazionali |
| k4 | = 0.425 Coeff. in eq.(7.11) come da annessi nazionali |
| Ø | Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2] |
| Cf | Copriferro [mm] netto calcolato con riferimento alla barra più tesa |
| e sm - e cm | Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = $0.6 S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC] |
| sr max | Massima distanza tra le fessure [mm] |
| wk | Apertura fessure in mm calcolata = $sr\ max \cdot (e_{sm} - e_{cm})$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi |
| Mx fess. | Componente momento di prima fessurazione intorno all'asse X [kNm] |
| My fess. | Componente momento di prima fessurazione intorno all'asse Y [kNm] |

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00096 | 0.00000 | 0.500 | 24.0 | 78 | 0.00050 (0.00050) | 468 | 0.236 (990.00) | 665.47 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 4.70 | 100.0 | 100.0 | -138.3 | 18.1 | 9.0 | 2250 | 45.2 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]



| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00079 | 0.00000 | 0.500 | 24.0 | 78 | 0.00041 (0.00041) | 468 | 0.194 (0.20) | 679.68 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 2.36 | 0.0 | 100.0 | -67.7 | 91.0 | 9.0 | 2250 | 45.2 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00039 | 0.00000 | 0.500 | 24.0 | 78 | 0.00020 (0.00020) | 468 | 0.095 (0.20) | 686.16 | 0.00 |

| | | | | |
|---|--|---|-------------|----------------------------|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | |
| | | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 |
| | | | | A |

| | | | | | |
|---|---|--------------------------------------|---------------------|------------------------|-----|
| SEZIONE | | | | | |
| b _w | = | 100 | cm | | |
| h | = | 100 | cm | | |
| c | = | 5 | cm | | |
| d | = | h-c | = | 95 | cm |
| MATERIALI | | | | | |
| f _{ywd} | = | 391.30 | MPa | | |
| R _{ck} | = | 40 | MPa | | |
| γ _c | = | 1.5 | | | |
| f _{ck} | = | 0.83xR _{ck} | = | 33.2 | MPa |
| f _{cd} | = | 0.85xf _{ck} /γ _c | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| ∅ _{st} | = | 12 | | | |
| braccia | = | 2.5 | | | |
| ∅ _{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 40 | cm | | |
| (A _{sw} / s) | = | 7.069 | cm ² / m | | |
| α | = | 90 | ° | (90° staffe verticali) | |
| ARMATURE LONGITUDINALI | | | | | |
| ∅ _l | = | 20 | | | |
| Numero | = | 5 | | | |
| A _{sl} | = | 15.708 | cm ² | | |
| TAGLIO AGENTE | | V _{Ed} = | 500 | (KN) | |
| SFORZO NORMALE | | N _{Ed} = | 0 | (KN) | |
| | | α _c = | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di cot θ | | | | | |
| cot(θ) = 5.75 | | | | | |
| θ = 9.87 ° | | | | | |
| cot ϑ > 2,5 Si assume ϑ = 21,8° | | | | | |
| Armatura trasversale | | | | | |
| V _{Rsd} = 591.23 (KN) | | | | | |
| V _{Rcd} = 2773.34 (KN) | | | | | |
| V _{Rd} = 591 (KN) min(V _{Rsd} , V _{Rcd}) | | | | | |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

13.2 SOLETTA SUPERIORE – SEZIONE DI INCASTRO

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO

Forma del Dominio: Poligonale
Classe Calcestruzzo: C32/40

| N°vertice: | X [cm] | Y [cm] |
|------------|--------|--------|
| 1 | 100.0 | 100.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 100.0 |



DATI BARRE ISOLATE

| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
|---------|--------|--------|-----------|
| 1 | 91.0 | 91.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 91.0 | 24 |
| 5 | 9.0 | 86.0 | 24 |
| 6 | 91.0 | 86.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

N°Gen. Numero assegnato alla singola generazione lineare di barre
N°Barra Ini. Numero della barra iniziale cui si riferisce la generazione
N°Barra Fin. Numero della barra finale cui si riferisce la generazione
N°Barre Numero di barre generate equidistanti cui si riferisce la generazione
Ø Diametro in mm delle barre della generazione

N°Gen. N°Barra Ini. N°Barra Fin. N°Barre Ø

| | | | | |
|---|---|-------|----------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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| | | | | |
|---|---|---|---|----|
| 1 | 2 | 3 | 3 | 24 |
| 2 | 1 | 4 | 8 | 24 |
| 3 | 5 | 6 | 3 | 24 |

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|----------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 420.00 | -2320.00 | 0.00 | 0.00 | 0.00 |
| 2 | 210.00 | -825.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|----------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 205.00 | -1580.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA



| | | | |
|---------|--|--------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 165.00 | -1445.00 (-690.60) | 0.00 (0.00) |

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|-------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 120.00 | -715.00 (-697.06) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

| | | | | | | | | | |
|---|--|----------------|-------|----------|--|------|----|----------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | | | | | | |
| | <table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Progetto</td> <td style="width: 25%;">Lotto</td> <td style="width: 25%;">Codifica</td> <td style="width: 25%;"></td> </tr> <tr> <td style="text-align: center;">IN17</td> <td style="text-align: center;">12</td> <td style="text-align: center;">EI2CLSL0900001</td> <td style="text-align: center;">A</td> </tr> </table> | Progetto | Lotto | Codifica | | IN17 | 12 | EI2CLSL0900001 | A |
| Progetto | Lotto | Codifica | | | | | | | |
| IN17 | 12 | EI2CLSL0900001 | A | | | | | | |

Copriferro netto minimo barre longitudinali: 7.8 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

| | |
|----------|--|
| Ver | S = combinazione verificata / N = combin. non verificata |
| N | Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione) |
| Mx | Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia |
| My | Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia |
| N Res | Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.) |
| Mx Res | Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia |
| My Res | Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia |
| Mis.Sic. | Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My) Verifica positiva se tale rapporto risulta >=1.000 |
| As Tesa | Area armature trave [cm ²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC] |

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|--------|----------|------|--------|----------|--------|----------|---------|
| 1 | N | 420.00 | -2320.00 | 0.00 | 419.89 | -2364.05 | 0.00 | 1.02 | |
| 67.9(17.9) | | | | | | | | | |
| 2 | N | 210.00 | -825.00 | 0.00 | 210.22 | -2283.59 | 0.00 | 2.75 | |
| 67.9(17.9) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

| | |
|--------|--|
| ec max | Deform. unit. massima del calcestruzzo a compressione |
| x/d | Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45 |
| Xc max | Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| Yc max | Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| es min | Deform. unit. minima nell'acciaio (negativa se di trazione) |
| Xs min | Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| Ys min | Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| es max | Deform. unit. massima nell'acciaio (positiva se di compress.) |
| Xs max | Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |
| Ys max | Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|---------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.173 | 0.0 | 0.0 | 0.00150 | 9.0 | 9.0 | -0.01673 | 91.0 | 91.0 |
| 2 | 0.00350 | 0.162 | 0.0 | 0.0 | 0.00137 | 9.0 | 9.0 | -0.01808 | 91.0 | 91.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA



| | |
|---------|---|
| a, b, c | Coeff. a, b, c nell'eq. dell'asse neutro aX+bY+c=0 nel rif. X,Y,O gen. |
| x/d | Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45 |
| C.Rid. | Coeff. di riduz. momenti per sola flessione in travi continue |

| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|--------------|-------------|-------|--------|
| 1 | 0.000000000 | -0.000222306 | 0.003500000 | 0.173 | 0.700 |
| 2 | 0.000000000 | -0.000237088 | 0.003500000 | 0.162 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| | |
|----------------|--|
| Ver | S = comb. verificata/ N = comb. non verificata |
| Sc max | Massima tensione (positiva se di compressione) nel calcestruzzo [MPa] |
| Xc max, Yc max | Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O) |
| Ss min | Minima tensione (negativa se di trazione) nell'acciaio [MPa] |
| Xs min, Ys min | Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O) |
| Ac eff. | Area di calcestruzzo [cm ²] in zona tesa considerata aderente alle barre |
| As eff. | Area barre [cm ²] in zona tesa considerate efficaci per l'apertura delle fessure |

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 11.08 | 100.0 | 0.0 | -289.4 | 18.1 | 91.0 | 2250 | 67.9 |

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COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm}

| | |
|-------------|--|
| Ver. | Esito della verifica |
| e1 | Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| e2 | Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| k1 | = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2] |
| kt | = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2] |
| k2 | = 0.5 per flessione; $= (e1 + e2)/(2 \cdot e1)$ per trazione eccentrica [eq.(7.13)EC2] |
| k3 | = 3.400 Coeff. in eq.(7.11) come da annessi nazionali |
| k4 | = 0.425 Coeff. in eq.(7.11) come da annessi nazionali |
| Ø | Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2] |
| Cf | Copriferro [mm] netto calcolato con riferimento alla barra più tesa |
| e sm - e cm | Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = $0.6 S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC] |
| sr max | Massima distanza tra le fessure [mm] |
| wk | Apertura fessure in mm calcolata = $sr\ max \cdot (e_sm - e_cm)$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi |
| Mx fess. | Componente momento di prima fessurazione intorno all'asse X [kNm] |
| My fess. | Componente momento di prima fessurazione intorno all'asse Y [kNm] |

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00167 | 0.00000 | 0.500 | 24.0 | 78 | 0.00108 (0.00087) | 400 | 0.434 (990.00) | -692.46 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 10.11 | 100.0 | 0.0 | -266.2 | 18.1 | 91.0 | 2250 | 67.9 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]



| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | N | -0.00154 | 0.00000 | 0.500 | 24.0 | 78 | 0.00097 (0.00080) | 400 | 0.387 (0.20) | -690.60 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 5.04 | 100.0 | 0.0 | -129.1 | 18.1 | 91.0 | 2200 | 67.9 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00075 | 0.00000 | 0.500 | 24.0 | 78 | 0.00041 (0.00039) | 397 | 0.162 (0.20) | -697.06 | 0.00 |

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| | | | | | |
|--|--------------|---------------------------------|------------|------------------------|-----|
| SEZIONE | | | | | |
| b_w | = | 100 | cm | | |
| h | = | 100 | cm | | |
| c | = | 5 | cm | | |
| d | = | $h-c$ | = | 95 | cm |
| MATERIALI | | | | | |
| f_{ywd} | = | 391.30 | MPa | | |
| R_{ck} | = | 40 | MPa | | |
| γ_c | = | 1.5 | | | |
| f_{ck} | = | $0.83 \times R_{ck}$ | = | 33.2 | MPa |
| f_{cd} | = | $0.85 \times f_{ck} / \gamma_c$ | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| \varnothing_{st} | = | 12 | | | |
| braccia | = | 5 | | | |
| \varnothing_{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 40 | cm | | |
| (A_{sw} / s) | = | 14.137 | cm^2 / m | | |
| α | = | 90 | ° | (90° staffe verticali) | |
| TAGLIO AGENTE | | $V_{Ed} =$ | 950 | (KN) | |
| SFORZO NORMALE | | $N_{Ed} =$ | 0 | (KN) | |
| | | $\alpha_c =$ | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di $\cot \theta$ | | | | | |
| $\cot(\theta) =$ | 4.00 | | | | |
| $\theta =$ | 14.03 ° | | | | |
| IPOTESI 2 $\cot \vartheta > 2,5$ Si assume $\vartheta = 21,8^\circ$ | | | | | |
| Armatura trasversale | | | | | |
| $V_{Rsd} =$ | 1182.45 (KN) | | | | |
| $V_{Rcd} =$ | 2773.34 (KN) | | | | |
| $V_{Rd} =$ | 1182 (KN) | $\min(V_{Rsd}, V_{Rcd})$ | | | |

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13.3 SOLETTA INFERIORE – SEZIONE DI MEZZERIA

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO

| | |
|----------------------|------------|
| Forma del Dominio: | Poligonale |
| Classe Calcestruzzo: | C32/40 |

| N°vertice: | X [cm] | Y [cm] |
|------------|--------|--------|
| 1 | 100.0 | 100.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 100.0 |

DATI BARRE ISOLATE

| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
|---------|--------|--------|-----------|
| 1 | 91.0 | 91.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 91.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

| | | | | |
|--------------|---|--|--|--|
| N°Gen. | Numero assegnato alla singola generazione lineare di barre | | | |
| N°Barra Ini. | Numero della barra iniziale cui si riferisce la generazione | | | |
| N°Barra Fin. | Numero della barra finale cui si riferisce la generazione | | | |
| N°Barre | Numero di barre generate equidistanti cui si riferisce la generazione | | | |
| Ø | Diametro in mm delle barre della generazione | | | |

| N°Gen. | N°Barra Ini. | N°Barra Fin. | N°Barre | Ø |
|--------|--------------|--------------|---------|----|
| 1 | 1 | 4 | 8 | 24 |

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2 2 3 3 24

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|---------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 0.00 | -890.00 | 0.00 | 0.00 | 0.00 |
| 2 | 0.00 | -465.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|---------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 0.00 | -685.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|-------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 0.00 | -590.00 (-637.56) | 0.00 (0.00) |

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA



| | | | |
|---------|--|-------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 0.00 | -295.00 (-637.56) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali: 7.8 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

| | | | | | |
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Ver S = combinazione verificata / N = combin. non verificata
N Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione)
Mx Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia
My Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia
N Res Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.)
Mx Res Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia
My Res Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia
Mis.Sic. Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My)
Verifica positiva se tale rapporto risulta >=1.000
As Tesa Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC]

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|------|---------|------|-------|----------|--------|----------|---------|
| 1 | S | 0.00 | -890.00 | 0.00 | 0.00 | -1525.47 | 0.00 | 1.71 | |
| 45.2(16.3) | | | | | | | | | |
| 2 | S | 0.00 | -465.00 | 0.00 | 0.00 | -1525.47 | 0.00 | 3.28 | |
| 45.2(16.3) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

ec max Deform. unit. massima del calcestruzzo a compressione
x/d Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45
Xc max Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
Yc max Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
es min Deform. unit. minima nell'acciaio (negativa se di trazione)
Xs min Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
Ys min Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max Deform. unit. massima nell'acciaio (positiva se di compress.)
Xs max Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)
Ys max Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|---------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.113 | 0.0 | 0.0 | 0.00044 | 9.0 | 9.0 | -0.02740 | 91.0 | 91.0 |
| 2 | 0.00350 | 0.113 | 0.0 | 0.0 | 0.00044 | 9.0 | 9.0 | -0.02740 | 91.0 | 91.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA

a, b, c Coeff. a, b, c nell'eq. dell'asse neutro $aX+bY+c=0$ nel rif. X,Y,O gen.
x/d Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
C.Rid. Coeff. di riduz. momenti per sola flessione in travi continue



| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|--------------|-------------|-------|--------|
| 1 | 0.000000000 | -0.000339565 | 0.003500000 | 0.113 | 0.700 |
| 2 | 0.000000000 | -0.000339565 | 0.003500000 | 0.113 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

Ver S = comb. verificata/ N = comb. non verificata
Sc max Massima tensione (positiva se di compressione) nel calcestruzzo [MPa]
Xc max, Yc max Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O)
Ss min Minima tensione (negativa se di trazione) nell'acciaio [MPa]
Xs min, Ys min Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O)
Ac eff. Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre
As eff. Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 5.26 | 100.0 | 0.0 | -184.8 | 9.0 | 91.0 | 2250 | 45.2 |

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

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Ver. La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm}
Esito della verifica
e1 Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata
e2 Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata
k1 = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2]
kt = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2]
k2 = 0.5 per flessione; $= (e1 + e2)/(2 \cdot e1)$ per trazione eccentrica [eq.(7.13)EC2]
k3 = 3.400 Coeff. in eq.(7.11) come da annessi nazionali
k4 = 0.425 Coeff. in eq.(7.11) come da annessi nazionali
Ø Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2]
Cf Copriferro [mm] netto calcolato con riferimento alla barra più tesa
e sm - e cm Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC]
Tra parentesi: valore minimo = $0.6 S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC]
sr max Massima distanza tra le fessure [mm]
wk Apertura fessure in mm calcolata = $sr\ max \cdot (e_{sm} - e_{cm})$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi
Mx fess. Componente momento di prima fessurazione intorno all'asse X [kNm]
My fess. Componente momento di prima fessurazione intorno all'asse Y [kNm]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00105 | 0.00000 | 0.500 | 24.0 | 78 | 0.00055 (0.00055) | 468 | 0.260 (990.00) | -637.56 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 4.53 | 100.0 | 0.0 | -159.2 | 18.1 | 91.0 | 2250 | 45.2 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]



| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | N | -0.00091 | 0.00000 | 0.500 | 24.0 | 78 | 0.00048 (0.00048) | 468 | 0.224 (0.20) | -637.56 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 2.27 | 100.0 | 0.0 | -79.6 | 18.1 | 91.0 | 2250 | 45.2 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00045 | 0.00000 | 0.500 | 24.0 | 78 | 0.00024 (0.00024) | 468 | 0.112 (0.20) | -637.56 | 0.00 |

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|---|--|---|-------------|----------------------------|---|
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| | | | | | |
|---|---|---------------------------------|------------|------------------------|-----|
| SEZIONE | | | | | |
| b_w | = | 100 | cm | | |
| h | = | 100 | cm | | |
| c | = | 5 | cm | | |
| d | = | $h-c$ | = | 95 | cm |
| MATERIALI | | | | | |
| f_{ywd} | = | 391.30 | MPa | | |
| R_{ck} | = | 40 | MPa | | |
| γ_c | = | 1.5 | | | |
| f_{ck} | = | $0.83 \times R_{ck}$ | = | 33.2 | MPa |
| f_{cd} | = | $0.85 \times f_{ck} / \gamma_c$ | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| \varnothing_{st} | = | 12 | | | |
| braccia | = | 2.5 | | | |
| \varnothing_{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 40 | cm | | |
| (A_{sw} / s) | = | 7.069 | cm^2 / m | | |
| α | = | 90 | $^\circ$ | (90° staffe verticali) | |
| ARMATURE LONGITUDINALI | | | | | |
| \varnothing_l | = | 20 | | | |
| Numero | = | 10 | | | |
| A_{sl} | = | 31.416 | cm^2 | | |
| TAGLIO AGENTE | | $V_{Ed} =$ | 450 | (KN) | |
| SFORZO NORMALE | | $N_{Ed} =$ | 0 | (KN) | |
| | | $\alpha_c =$ | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di $\cot \theta$ | | | | | |
| $\cot(\theta) = 5.75$ | | | | | |
| $\theta = 9.87^\circ$ | | | | | |
| $\cot \vartheta > 2,5$ Si assume $\vartheta = 21,8^\circ$ | | | | | |
| Armatura trasversale | | | | | |
| $V_{Rsd} = 591.23$ (KN) | | | | | |
| $V_{Rcd} = 2773.34$ (KN) | | | | | |
| $V_{Rd} = 591$ (KN) $\min(V_{Rsd}, V_{Rcd})$ | | | | | |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

13.4 SOLETTA INFERIORE – SEZIONE DI INCASTRO

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO

Forma del Dominio: Poligonale
Classe Calcestruzzo: C32/40

| N°vertice: | X [cm] | Y [cm] |
|------------|--------|--------|
| 1 | 100.0 | 100.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 100.0 |



DATI BARRE ISOLATE

| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
|---------|--------|--------|-----------|
| 1 | 91.0 | 91.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 91.0 | 24 |
| 5 | 9.0 | 14.0 | 24 |
| 6 | 91.0 | 14.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

N°Gen. Numero assegnato alla singola generazione lineare di barre
N°Barra Ini. Numero della barra iniziale cui si riferisce la generazione
N°Barra Fin. Numero della barra finale cui si riferisce la generazione
N°Barre Numero di barre generate equidistanti cui si riferisce la generazione
Ø Diametro in mm delle barre della generazione

N°Gen. N°Barra Ini. N°Barra Fin. N°Barre Ø

| | | | | |
|---|---|-------|----------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto | Lotto | Codifica | |
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| | | | | |
|---|---|---|---|----|
| 1 | 2 | 3 | 8 | 24 |
| 2 | 1 | 4 | 3 | 24 |
| 3 | 5 | 6 | 3 | 24 |

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|---------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 0.00 | 2130.00 | 0.00 | 0.00 | 0.00 |
| 2 | 0.00 | 805.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|---------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 0.00 | 1385.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA



| | | | |
|---------|--|------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 0.00 | 1280.00 (677.24) | 0.00 (0.00) |

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|-----------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 0.00 | 605.00 (677.24) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

| | | | | | |
|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

Copriferro netto minimo barre longitudinali: 7.8 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

| | |
|----------|--|
| Ver | S = combinazione verificata / N = combin. non verificata |
| N | Sforzo normale assegnato [kN] nel baricentro B sezione cls. (positivo se di compressione) |
| Mx | Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia |
| My | Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia |
| N Res | Sforzo normale resistente [kN] nel baricentro B sezione cls. (positivo se di compress.) |
| Mx Res | Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia |
| My Res | Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia |
| Mis.Sic. | Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My) Verifica positiva se tale rapporto risulta >=1.000 |
| As Tesa | Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC] |

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|------|---------|------|-------|---------|--------|----------|---------|
| 1 | N | 0.00 | 2130.00 | 0.00 | 0.00 | 2201.50 | 0.00 | 1.03 | |
| 67.9(16.3) | | | | | | | | | |
| 2 | N | 0.00 | 805.00 | 0.00 | 0.00 | 2201.50 | 0.00 | 2.73 | |
| 67.9(16.3) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

| | |
|--------|--|
| ec max | Deform. unit. massima del calcestruzzo a compressione |
| x/d | Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45 |
| Xc max | Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| Yc max | Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| es min | Deform. unit. minima nell'acciaio (negativa se di trazione) |
| Xs min | Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| Ys min | Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| es max | Deform. unit. massima nell'acciaio (positiva se di compress.) |
| Xs max | Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |
| Ys max | Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|---------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.152 | 100.0 | 100.0 | 0.00122 | 91.0 | 91.0 | -0.01956 | 9.0 | 9.0 |
| 2 | 0.00350 | 0.152 | 100.0 | 100.0 | 0.00122 | 91.0 | 91.0 | -0.01956 | 9.0 | 9.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA



| | |
|---------|---|
| a, b, c | Coeff. a, b, c nell'eq. dell'asse neutro $aX+bY+c=0$ nel rif. X,Y,O gen. |
| x/d | Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45 |
| C.Rid. | Coeff. di riduz. momenti per sola flessione in travi continue |

| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|-------------|--------------|-------|--------|
| 1 | 0.000000000 | 0.000253372 | -0.021837159 | 0.152 | 0.700 |
| 2 | 0.000000000 | 0.000253372 | -0.021837159 | 0.152 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| | |
|----------------|---|
| Ver | S = comb. verificata/ N = comb. non verificata |
| Sc max | Massima tensione (positiva se di compressione) nel calcestruzzo [MPa] |
| Xc max, Yc max | Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O) |
| Ss min | Minima tensione (negativa se di trazione) nell'acciaio [MPa] |
| Xs min, Ys min | Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O) |
| Ac eff. | Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre |
| As eff. | Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure |

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 9.54 | 0.0 | 100.0 | -265.8 | 81.9 | 9.0 | 2250 | 67.9 |

| | | | | | |
|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm}

| | |
|-------------|--|
| Ver. | Esito della verifica |
| e1 | Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| e2 | Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| k1 | = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2] |
| kt | = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2] |
| k2 | = 0.5 per flessione; $=(e1 + e2)/(2 \cdot e1)$ per trazione eccentrica [eq.(7.13)EC2] |
| k3 | = 3.400 Coeff. in eq.(7.11) come da annessi nazionali |
| k4 | = 0.425 Coeff. in eq.(7.11) come da annessi nazionali |
| Ø | Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2] |
| Cf | Copriferro [mm] netto calcolato con riferimento alla barra più tesa |
| e sm - e cm | Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = $0.6 \cdot S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC] |
| sr max | Massima distanza tra le fessure [mm] |
| wk | Apertura fessure in mm calcolata = $sr\ max \cdot (e_sm - e_cm)$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi |
| Mx fess. | Componente momento di prima fessurazione intorno all'asse X [kNm] |
| My fess. | Componente momento di prima fessurazione intorno all'asse Y [kNm] |

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00153 | 0.00000 | 0.500 | 24.0 | 78 | 0.00097 (0.00080) | 400 | 0.387 (990.00) | 677.24 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 8.82 | 0.0 | 100.0 | -245.6 | 91.0 | 9.0 | 2250 | 67.9 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | N | -0.00141 | 0.00000 | 0.500 | 24.0 | 78 | 0.00086 (0.00074) | 400 | 0.346 (0.20) | 677.24 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 4.17 | 0.0 | 100.0 | -116.1 | 81.9 | 9.0 | 2250 | 67.9 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00067 | 0.00000 | 0.500 | 24.0 | 78 | 0.00035 (0.00035) | 400 | 0.139 (0.20) | 677.24 | 0.00 |

| | | | | | |
|---|--|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | |
|--|---|---------------------------------|------------|---------------------------|-----|
| SEZIONE | | | | | |
| b_w | = | 100 | cm | | |
| h | = | 100 | cm | | |
| c | = | 5 | cm | | |
| d | = | $h-c$ | = | 95 | cm |
| MATERIALI | | | | | |
| f_{ywd} | = | 391.30 | MPa | | |
| R_{ck} | = | 40 | MPa | | |
| γ_c | = | 1.5 | | | |
| f_{ck} | = | $0.83 \times R_{ck}$ | = | 33.2 | MPa |
| f_{cd} | = | $0.85 \times f_{ck} / \gamma_c$ | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| \varnothing_{st} | = | 12 | | | |
| braccia | = | 5 | | | |
| \varnothing_{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 40 | cm | | |
| (A_{sw} / s) | = | 14.137 | cm^2 / m | | |
| α | = | 90 | $^\circ$ | (90° staffe verticali) | |
| ARMATURE LONGITUDINALI | | | | | |
| \varnothing_l | = | 20 | | | |
| Numero | = | 10 | | | |
| A_{sl} | = | 31.416 | cm^2 | | |
| TAGLIO AGENTE | | $V_{Ed} =$ | 685 | (KN) | |
| SFORZO NORMALE | | $N_{Ed} =$ | 0 | (KN) | |
| | | $\alpha_c =$ | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di cot θ | | | | | |
| cot(θ) = | | 4.00 | | | |
| $\theta =$ | | 14.03 ° | | | |
| cot $\vartheta > 2,5$ Si assume $\vartheta = 21,8^\circ$ | | | | | |
| Armatura trasversale | | | | | |
| $V_{Rsd} =$ | | 1182.45 (KN) | | | |
| $V_{Rcd} =$ | | 2773.34 (KN) | | | |
| $V_{Rd} =$ | | 1182 (KN) | | min(V_{Rsd}, V_{Rcd}) | |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

13.5 PIEDRITTI – SEZIONE DI INCASTRO INFERIORE

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO

| | |
|----------------------|------------|
| Forma del Dominio: | Poligonale |
| Classe Calcestruzzo: | C32/40 |

| N°vertice: | X [cm] | Y [cm] |
|------------|--------|--------|
| 1 | 100.0 | 100.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 100.0 |



DATI BARRE ISOLATE

| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
|---------|--------|--------|-----------|
| 1 | 91.0 | 91.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 91.0 | 24 |
| 5 | 9.0 | 86.0 | 24 |
| 6 | 91.0 | 86.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

| | | | | |
|--------------|---|--|--|--|
| N°Gen. | Numero assegnato alla singola generazione lineare di barre | | | |
| N°Barra Ini. | Numero della barra iniziale cui si riferisce la generazione | | | |
| N°Barra Fin. | Numero della barra finale cui si riferisce la generazione | | | |
| N°Barre | Numero di barre generate equidistanti cui si riferisce la generazione | | | |
| Ø | Diametro in mm delle barre della generazione | | | |

N°Gen. N°Barra Ini. N°Barra Fin. N°Barre Ø

| | | | | |
|---|---|-------|----------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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| | | | | |
|---|---|---|---|----|
| 1 | 2 | 3 | 3 | 24 |
| 2 | 1 | 4 | 8 | 24 |
| 3 | 5 | 6 | 3 | 24 |

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|----------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 215.00 | -2130.00 | 0.00 | 0.00 | 0.00 |
| 2 | 100.00 | -805.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|----------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 135.00 | -1385.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA



| | | | |
|---------|--|--------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 115.00 | -1280.00 (-687.71) | 0.00 (0.00) |

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|-------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 100.00 | -605.00 (-696.75) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

| | | | | | | | | | |
|---|--|----------------|-------|----------|--|------|----|----------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | | | | | | |
| | <table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Progetto</td> <td style="width: 25%;">Lotto</td> <td style="width: 25%;">Codifica</td> <td style="width: 25%;"></td> </tr> <tr> <td style="text-align: center;">IN17</td> <td style="text-align: center;">12</td> <td style="text-align: center;">EI2CLSL0900001</td> <td style="text-align: center;">A</td> </tr> </table> | Progetto | Lotto | Codifica | | IN17 | 12 | EI2CLSL0900001 | A |
| Progetto | Lotto | Codifica | | | | | | | |
| IN17 | 12 | EI2CLSL0900001 | A | | | | | | |

Copriferro netto minimo barre longitudinali: 7.8 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

Ver S = combinazione verificata / N = combin. non verificata
N Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione)
Mx Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia
My Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia
N Res Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.)
Mx Res Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia
My Res Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia
Mis.Sic. Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My)
Verifica positiva se tale rapporto risulta >=1.000
As Tesa Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC]

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|--------|----------|------|--------|----------|--------|----------|---------|
| 1 | N | 215.00 | -2130.00 | 0.00 | 214.74 | -2285.33 | 0.00 | 1.07 | |
| 67.9(17.9) | | | | | | | | | |
| 2 | N | 100.00 | -805.00 | 0.00 | 100.05 | -2240.76 | 0.00 | 2.78 | |
| 67.9(17.9) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

ec max Deform. unit. massima del calcestruzzo a compressione
x/d Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45
Xc max Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
Yc max Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
es min Deform. unit. minima nell'acciaio (negativa se di trazione)
Xs min Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
Ys min Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max Deform. unit. massima nell'acciaio (positiva se di compress.)
Xs max Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)
Ys max Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|---------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.162 | 0.0 | 0.0 | 0.00137 | 9.0 | 9.0 | -0.01805 | 91.0 | 91.0 |
| 2 | 0.00350 | 0.157 | 0.0 | 0.0 | 0.00129 | 9.0 | 9.0 | -0.01883 | 91.0 | 91.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA



a, b, c Coeff. a, b, c nell'eq. dell'asse neutro $aX+bY+c=0$ nel rif. X,Y,O gen.
x/d Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
C.Rid. Coeff. di riduz. momenti per sola flessione in travi continue

| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|--------------|-------------|-------|--------|
| 1 | 0.000000000 | -0.000236770 | 0.003500000 | 0.162 | 0.700 |
| 2 | 0.000000000 | -0.000245412 | 0.003500000 | 0.157 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

Ver S = comb. verificata/ N = comb. non verificata
Sc max Massima tensione (positiva se di compressione) nel calcestruzzo [MPa]
Xc max, Yc max Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O)
Ss min Minima tensione (negativa se di trazione) nell'acciaio [MPa]
Xs min, Ys min Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O)
Ac eff. Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre
As eff. Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 9.67 | 0.0 | 0.0 | -256.7 | 72.8 | 91.0 | 2250 | 67.9 |

| | | | | | |
|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm}

| | |
|-------------|--|
| Ver. | Esito della verifica |
| e1 | Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| e2 | Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| k1 | = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2] |
| kt | = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2] |
| k2 | = 0.5 per flessione; $= (e1 + e2)/(2 \cdot e1)$ per trazione eccentrica [eq.(7.13)EC2] |
| k3 | = 3.400 Coeff. in eq.(7.11) come da annessi nazionali |
| k4 | = 0.425 Coeff. in eq.(7.11) come da annessi nazionali |
| Ø | Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2] |
| Cf | Copriferro [mm] netto calcolato con riferimento alla barra più tesa |
| e sm - e cm | Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = $0.6 \cdot S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC] |
| sr max | Massima distanza tra le fessure [mm] |
| wk | Apertura fessure in mm calcolata = $sr\ max \cdot (e_sm - e_cm)$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi |
| Mx fess. | Componente momento di prima fessurazione intorno all'asse X [kNm] |
| My fess. | Componente momento di prima fessurazione intorno all'asse Y [kNm] |

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00148 | 0.00000 | 0.500 | 24.0 | 78 | 0.00092 (0.00077) | 400 | 0.368 (990.00) | -688.61 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 8.93 | 0.0 | 0.0 | -237.9 | 18.1 | 91.0 | 2250 | 67.9 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]



| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | N | -0.00137 | 0.00000 | 0.500 | 24.0 | 78 | 0.00083 (0.00071) | 400 | 0.331 (0.20) | -687.71 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 4.26 | 0.0 | 0.0 | -109.4 | 36.3 | 91.0 | 2200 | 67.9 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00063 | 0.00000 | 0.500 | 24.0 | 78 | 0.00033 (0.00033) | 397 | 0.130 (0.20) | -696.75 | 0.00 |

| | | | | | |
|---|--|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
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| | | | | | |
|---|----------------|---------------------------------|------------|------------------------|-----|
| SEZIONE | | | | | |
| b_w | = | 100 | cm | | |
| h | = | 100 | cm | | |
| c | = | 5 | cm | | |
| d | = | $h-c$ | = | 95 | cm |
| MATERIALI | | | | | |
| f_{ywd} | = | 391.30 | MPa | | |
| R_{ck} | = | 40 | MPa | | |
| γ_c | = | 1.5 | | | |
| f_{ck} | = | $0.83 \times R_{ck}$ | = | 33.2 | MPa |
| f_{cd} | = | $0.85 \times f_{ck} / \gamma_c$ | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| \varnothing_{st} | = | 12 | | | |
| braccia | = | 3 | | | |
| \varnothing_{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 33 | cm | | |
| (A_{sw} / s) | = | 10.282 | cm^2 / m | | |
| α | = | 90 | $^\circ$ | (90° staffe verticali) | |
| TAGLIO AGENTE | | $V_{Ed} =$ | 625 | (KN) | |
| SFORZO NORMALE | | $N_{Ed} =$ | 0 | (KN) | |
| | | $\alpha_c =$ | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di $\cot \theta$ | | | | | |
| $\cot(\theta) =$ | 4.73 | | | | |
| $\theta =$ | 11.94 $^\circ$ | | | | |
| $\cot \vartheta > 2,5$ Si assume $\vartheta = 21,8^\circ$ | | | | | |
| Armatura trasversale | | | | | |
| $V_{Rsd} =$ | 859.96 (KN) | | | | |
| $V_{Rcd} =$ | 2773.34 (KN) | | | | |
| $V_{Rd} =$ | 860 (KN) | $\min(V_{Rsd}, V_{Rcd})$ | | | |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

13.6 PIEDRITTI – SEZIONE DI INCASTRO SUPERIORE

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO

| | |
|----------------------|------------|
| Forma del Dominio: | Poligonale |
| Classe Calcestruzzo: | C32/40 |

| N°vertice: | X [cm] | Y [cm] |
|------------|--------|--------|
| 1 | 100.0 | 100.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 100.0 |



DATI BARRE ISOLATE

| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
|---------|--------|--------|-----------|
| 1 | 91.0 | 91.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 91.0 | 24 |
| 5 | 9.0 | 86.0 | 24 |
| 6 | 91.0 | 86.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

| | | | | |
|--------------|---|--|--|--|
| N°Gen. | Numero assegnato alla singola generazione lineare di barre | | | |
| N°Barra Ini. | Numero della barra iniziale cui si riferisce la generazione | | | |
| N°Barra Fin. | Numero della barra finale cui si riferisce la generazione | | | |
| N°Barre | Numero di barre generate equidistanti cui si riferisce la generazione | | | |
| Ø | Diametro in mm delle barre della generazione | | | |

N°Gen. N°Barra Ini. N°Barra Fin. N°Barre Ø

| | | | | |
|---|---|-------|----------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto | Lotto | Codifica | |
| | IN17 | 12 | EI2CLSL0900001 | A |

| | | | | |
|---|---|---|---|----|
| 1 | 2 | 3 | 3 | 24 |
| 2 | 1 | 4 | 8 | 24 |
| 3 | 5 | 6 | 3 | 24 |

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|----------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 195.00 | -2220.00 | 0.00 | 0.00 | 0.00 |
| 2 | 10.00 | -825.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|----------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 75.00 | -1580.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|--------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 55.00 | -1445.00 (-681.63) | 0.00 (0.00) |

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|-------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 5.00 | -715.00 (-678.04) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

| | | | | | |
|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

Copriferro netto minimo barre longitudinali: 7.8 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

| | |
|----------|--|
| Ver | S = combinazione verificata / N = combin. non verificata |
| N | Sforzo normale assegnato [kN] nel baricentro B sezione cls. (positivo se di compressione) |
| Mx | Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia |
| My | Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia |
| N Res | Sforzo normale resistente [kN] nel baricentro B sezione cls. (positivo se di compress.) |
| Mx Res | Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia |
| My Res | Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia |
| Mis.Sic. | Misura sicurezza = rapporto vettoriale tra (N r, Mx Res, My Res) e (N, Mx, My) Verifica positiva se tale rapporto risulta >=1.000 |
| As Tesa | Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC] |

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|--------|----------|------|--------|----------|--------|----------|---------|
| 1 | N | 195.00 | -2220.00 | 0.00 | 195.29 | -2277.79 | 0.00 | 1.03 | |
| 67.9(17.9) | | | | | | | | | |
| 2 | N | 10.00 | -825.00 | 0.00 | 9.82 | -2205.39 | 0.00 | 2.67 | |
| 67.9(17.9) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

| | |
|--------|--|
| ec max | Deform. unit. massima del calcestruzzo a compressione |
| x/d | Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45 |
| Xc max | Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| Yc max | Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| es min | Deform. unit. minima nell'acciaio (negativa se di trazione) |
| Xs min | Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| Ys min | Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| es max | Deform. unit. massima nell'acciaio (positiva se di compress.) |
| Xs max | Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |
| Ys max | Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|---------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.161 | 0.0 | 0.0 | 0.00136 | 9.0 | 9.0 | -0.01818 | 91.0 | 91.0 |
| 2 | 0.00350 | 0.152 | 0.0 | 0.0 | 0.00123 | 9.0 | 9.0 | -0.01949 | 91.0 | 91.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA



| | |
|---------|---|
| a, b, c | Coeff. a, b, c nell'eq. dell'asse neutro $aX+bY+c=0$ nel rif. X,Y,O gen. |
| x/d | Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45 |
| C.Rid. | Coeff. di riduz. momenti per sola flessione in travi continue |

| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|--------------|-------------|-------|--------|
| 1 | 0.000000000 | -0.000238225 | 0.003500000 | 0.161 | 0.700 |
| 2 | 0.000000000 | -0.000252598 | 0.003500000 | 0.152 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| | |
|----------------|---|
| Ver | S = comb. verificata/ N = comb. non verificata |
| Sc max | Massima tensione (positiva se di compressione) nel calcestruzzo [MPa] |
| Xc max, Yc max | Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O) |
| Ss min | Minima tensione (negativa se di trazione) nell'acciaio [MPa] |
| Xs min, Ys min | Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O) |
| Ac eff. | Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre |
| As eff. | Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure |

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 10.96 | 0.0 | 0.0 | -298.1 | 91.0 | 91.0 | 2250 | 67.9 |

| | | | | | |
|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
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COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm}

| | |
|-------------|--|
| Ver. | Esito della verifica |
| e1 | Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| e2 | Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| k1 | = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2] |
| kt | = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2] |
| k2 | = 0.5 per flessione; $=(e1 + e2)/(2 \cdot e1)$ per trazione eccentrica [eq.(7.13)EC2] |
| k3 | = 3.400 Coeff. in eq.(7.11) come da annessi nazionali |
| k4 | = 0.425 Coeff. in eq.(7.11) come da annessi nazionali |
| Ø | Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2] |
| Cf | Copriferro [mm] netto calcolato con riferimento alla barra più tesa |
| e sm - e cm | Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = $0.6 \cdot S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC] |
| sr max | Massima distanza tra le fessure [mm] |
| wk | Apertura fessure in mm calcolata = $sr\ max \cdot (e_sm - e_cm)$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi |
| Mx fess. | Componente momento di prima fessurazione intorno all'asse X [kNm] |
| My fess. | Componente momento di prima fessurazione intorno all'asse Y [kNm] |

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00172 | 0.00000 | 0.500 | 24.0 | 78 | 0.00113 (0.00089) | 400 | 0.451 (990.00) | -682.73 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 10.01 | 0.0 | 0.0 | -273.6 | 72.8 | 91.0 | 2250 | 67.9 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]



| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | N | -0.00158 | 0.00000 | 0.500 | 24.0 | 78 | 0.00100 (0.00082) | 400 | 0.402 (0.20) | -681.63 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 4.93 | 0.0 | 0.0 | -136.9 | 18.1 | 91.0 | 2250 | 67.9 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00079 | 0.00000 | 0.500 | 24.0 | 78 | 0.00044 (0.00041) | 400 | 0.177 (0.20) | -678.04 | 0.00 |

| | | | | | |
|---|--|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | |
|---|---|---------------------------------|------------|------------------------|-----|
| SEZIONE | | | | | |
| b_w | = | 100 | cm | | |
| h | = | 100 | cm | | |
| c | = | 5 | cm | | |
| d | = | $h-c$ | = | 95 | cm |
| MATERIALI | | | | | |
| f_{ywd} | = | 391.30 | MPa | | |
| R_{ck} | = | 40 | MPa | | |
| γ_c | = | 1.5 | | | |
| f_{ck} | = | $0.83 \times R_{ck}$ | = | 33.2 | MPa |
| f_{cd} | = | $0.85 \times f_{ck} / \gamma_c$ | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| \varnothing_{st} | = | 12 | | | |
| braccia | = | 3 | | | |
| \varnothing_{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 33 | cm | | |
| (A_{sw} / s) | = | 10.282 | cm^2 / m | | |
| α | = | 90 | ° | (90° staffe verticali) | |
| ARMATURE LONGITUDINALI | | | | | |
| \varnothing_l | = | 20 | | | |
| Numero | = | 10 | | | |
| A_{sl} | = | 31.416 | cm^2 | | |
| TAGLIO AGENTE | | $V_{Ed} =$ | 495 | (KN) | |
| SFORZO NORMALE | | $N_{Ed} =$ | 0 | (KN) | |
| | | $\alpha_c =$ | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di $\cot \theta$ | | | | | |
| $\cot(\theta) =$ | | 4.73 | | | |
| $\theta =$ | | 11.94 ° | | | |
| $\cot \vartheta > 2,5$ Si assume $\vartheta = 21,8^\circ$ | | | | | |
| Armatura trasversale | | | | | |
| $V_{Rsd} =$ | | 859.96 (KN) | | | |
| $V_{Rcd} =$ | | 2773.34 (KN) | | | |
| $V_{Rd} =$ | | 860 (KN) | | | |
| min(V_{Rsd}, V_{Rcd}) | | | | | |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

13.7 PIEDRITTI – SEZIONE DI MEZZERIA

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO

| | |
|----------------------|------------|
| Forma del Dominio: | Poligonale |
| Classe Calcestruzzo: | C32/40 |

| N°vertice: | X [cm] | Y [cm] |
|------------|--------|--------|
| 1 | 100.0 | 100.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 100.0 |



DATI BARRE ISOLATE

| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
|---------|--------|--------|-----------|
| 1 | 91.0 | 91.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 91.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

| | | | | |
|--------------|---|--|--|--|
| N°Gen. | Numero assegnato alla singola generazione lineare di barre | | | |
| N°Barra Ini. | Numero della barra iniziale cui si riferisce la generazione | | | |
| N°Barra Fin. | Numero della barra finale cui si riferisce la generazione | | | |
| N°Barre | Numero di barre generate equidistanti cui si riferisce la generazione | | | |
| Ø | Diametro in mm delle barre della generazione | | | |

| N°Gen. | N°Barra Ini. | N°Barra Fin. | N°Barre | Ø |
|--------|--------------|--------------|---------|----|
| 1 | 2 | 3 | 3 | 24 |

| | | | | | |
|---|--|---|-------|---------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
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2 1 4 3 24

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|---------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 160.00 | -420.00 | 0.00 | 0.00 | 0.00 |
| 2 | 55.00 | 100.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|---------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 105.00 | -240.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 85.00 | -50.00 (-840.84) | 0.00 (0.00) |

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA



| | | | |
|---------|--|-------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 55.00 | -15.00 (-1680.66) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali: 7.8 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

| | | | | | | | | | |
|---|--|----------------|-------|----------|--|------|----|----------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | | | | | | |
| | <table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Progetto</td> <td style="width: 25%;">Lotto</td> <td style="width: 25%;">Codifica</td> <td style="width: 25%;"></td> </tr> <tr> <td style="text-align: center;">IN17</td> <td style="text-align: center;">12</td> <td style="text-align: center;">EI2CLSL0900001</td> <td style="text-align: center;">A</td> </tr> </table> | Progetto | Lotto | Codifica | | IN17 | 12 | EI2CLSL0900001 | A |
| Progetto | Lotto | Codifica | | | | | | | |
| IN17 | 12 | EI2CLSL0900001 | A | | | | | | |

Ver S = combinazione verificata / N = combin. non verificata
N Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione)
Mx Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia
My Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia
N Res Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.)
Mx Res Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia
My Res Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia
Mis.Sic. Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My)
Verifica positiva se tale rapporto risulta >=1.000
As Tesa Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC]

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|--------|---------|------|--------|---------|--------|----------|---------|
| 1 | N | 160.00 | -420.00 | 0.00 | 160.14 | -860.77 | 0.00 | 2.05 | |
| 22.6(17.9) | | | | | | | | | |
| 2 | N | 55.00 | 100.00 | 0.00 | 55.14 | 816.69 | 0.00 | 8.17 | |
| 45.2(17.9) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

ec max Deform. unit. massima del calcestruzzo a compressione
x/d Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45
Xc max Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
Yc max Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
es min Deform. unit. minima nell'acciaio (negativa se di trazione)
Xs min Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
Ys min Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max Deform. unit. massima nell'acciaio (positiva se di compress.)
Xs max Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)
Ys max Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|----------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.089 | 0.0 | 0.0 | -0.00041 | 9.0 | 9.0 | -0.03599 | 91.0 | 91.0 |
| 2 | 0.00350 | 0.086 | 100.0 | 100.0 | -0.00054 | 91.0 | 91.0 | -0.03738 | 9.0 | 9.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA

a, b, c Coeff. a, b, c nell'eq. dell'asse neutro $aX+bY+c=0$ nel rif. X,Y,O gen.
x/d Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
C.Rid. Coeff. di riduz. momenti per sola flessione in travi continue



| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|--------------|--------------|-------|--------|
| 1 | 0.000000000 | -0.000433991 | 0.003500000 | 0.089 | 0.700 |
| 2 | 0.000000000 | 0.000449183 | -0.041418282 | 0.086 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

Ver S = comb. verificata/ N = comb. non verificata
Sc max Massima tensione (positiva se di compressione) nel calcestruzzo [MPa]
Xc max, Yc max Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O)
Ss min Minima tensione (negativa se di trazione) nell'acciaio [MPa]
Xs min, Ys min Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O)
Ac eff. Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre
As eff. Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 2.45 | 0.0 | 0.0 | -104.5 | 91.0 | 91.0 | 2250 | 22.6 |

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| | | | | | |
|--|--|--|-------|----------------|---|
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| | |
|-------------|--|
| Ver. | La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm} |
| e1 | Esito della verifica |
| e2 | Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata |
| k1 | Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2] |
| kt | = 0.4 per comb. quasi permanenti / = 0.6 per comb. frequenti [cfr. eq.(7.9)EC2] |
| k2 | = 0.5 per flessione; $= (e1 + e2)/(2 \cdot e1)$ per trazione eccentrica [eq.(7.13)EC2] |
| k3 | = 3.400 Coeff. in eq.(7.11) come da annessi nazionali |
| k4 | = 0.425 Coeff. in eq.(7.11) come da annessi nazionali |
| Ø | Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2] |
| Cf | Copriferro [mm] netto calcolato con riferimento alla barra più tesa |
| e sm - e cm | Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC] Tra parentesi: valore minimo = $0.6 S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC] |
| sr max | Massima distanza tra le fessure [mm] |
| wk | Apertura fessure in mm calcolata = $sr\ max \cdot (e_{sm} - e_{cm})$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi |
| Mx fess. | Componente momento di prima fessurazione intorno all'asse X [kNm] |
| My fess. | Componente momento di prima fessurazione intorno all'asse Y [kNm] |

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00059 | 0.00000 | 0.500 | 24.0 | 78 | 0.00031 (0.00031) | 671 | 0.210 (990.00) | -636.62 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 0.49 | 100.0 | 0.0 | -10.1 | 29.5 | 91.0 | 2050 | 22.6 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]



| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|---------|---------|
| 1 | S | -0.00006 | 0.00000 | 0.500 | 24.0 | 78 | 0.00003 (0.00003) | 635 | 0.019 (0.20) | -840.84 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 0.14 | 100.0 | 0.0 | -0.4 | 9.0 | 91.0 | 900 | 22.6 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|---------|---------|-------|------|----|-------------------|--------|--------------|----------|---------|
| 1 | S | 0.00000 | 0.00000 | 0.500 | 24.0 | 78 | 0.00000 (0.00000) | 428 | 0.001 (0.20) | -1680.66 | 0.00 |

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| | | | | | |
|---|--------------|---------------------------------|------------|------------------------|-----|
| SEZIONE | | | | | |
| b_w | = | 100 | cm | | |
| h | = | 100 | cm | | |
| c | = | 5 | cm | | |
| d | = | $h-c$ | = | 95 | cm |
| MATERIALI | | | | | |
| f_{ywd} | = | 391.30 | MPa | | |
| R_{ck} | = | 40 | MPa | | |
| γ_c | = | 1.5 | | | |
| f_{ck} | = | $0.83 \times R_{ck}$ | = | 33.2 | MPa |
| f_{cd} | = | $0.85 \times f_{ck} / \gamma_c$ | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| \varnothing_{st} | = | 12 | | | |
| braccia | = | 3 | | | |
| \varnothing_{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 33 | cm | | |
| (A_{sw} / s) | = | 10.282 | cm^2 / m | | |
| α | = | 90 | ° | (90° staffe verticali) | |
| TAGLIO AGENTE | | $V_{Ed} =$ | 555 | (KN) | |
| SFORZO NORMALE | | $N_{Ed} =$ | 0 | (KN) | |
| | | $\alpha_c =$ | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di $\cot \theta$ | | | | | |
| $\cot(\theta) =$ | 4.73 | | | | |
| $\theta =$ | 11.94 ° | | | | |
| $\cot \vartheta > 2,5$ Si assume $\vartheta = 21,8^\circ$ | | | | | |
| Armatura trasversale | | | | | |
| $V_{Rsd} =$ | 859.96 (KN) | | | | |
| $V_{Rcd} =$ | 2773.34 (KN) | | | | |
| $V_{Rd} =$ | 860 (KN) | | | | |
| $\min(V_{Rsd}, V_{Rcd})$ | | | | | |

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13.8 SETTO CENTRALE – SEZIONE PIÙ SOLLECITATA

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

| | | | |
|------------------------------|--|---------------------|---------------------|
| CALCESTRUZZO - | Classe: | C32/40 | |
| | Resis. compr. di progetto fcd: | 18.8 | MPa |
| | Def.unit. max resistenza ec2: | 0.0020 | |
| | Def.unit. ultima ecu: | 0.0035 | |
| | Diagramma tensione-deformaz.: | Parabola-Rettangolo | |
| | Modulo Elastico Normale Ec: | 33642.8 | MPa |
| | Resis. media a trazione fctm: | 3.10 | MPa |
| | Coeff. Omogen. S.L.E.: | 15.00 | |
| | Sc limite S.L.E. comb. Rare: | 19.9 | MPa |
| | Sc limite S.L.E. comb. Frequenti: | 19.9 | MPa |
| | Ap.Fessure limite S.L.E. comb. Frequenti: | 0.200 | mm |
| | Sc limite S.L.E. comb. Q.Permanenti: | 14.9 | MPa |
| | Ap.Fess.limite S.L.E. comb. Q.Perm.: | 0.200 | mm |
| ACCIAIO - | Tipo: | B450C | |
| | Resist. caratt. snervam. fyk: | 450.0 | MPa |
| | Resist. caratt. rottura ftk: | 450.0 | MPa |
| | Resist. snerv. di progetto fyd: | 391.3 | MPa |
| | Resist. ultima di progetto ftd: | 391.3 | MPa |
| | Deform. ultima di progetto Epu: | 0.068 | |
| | Modulo Elastico Ef | 2000000 | daN/cm ² |
| | Diagramma tensione-deformaz.: | Bilineare finito | |
| | Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$: | 1.00 | |
| | Coeff. Aderenza differito $\beta_1 \cdot \beta_2$: | 0.50 | |
| Sf limite S.L.E. Comb. Rare: | 360.00 | MPa | |

CARATTERISTICHE DOMINIO CALCESTRUZZO



| | | |
|----------------------|------------|--------|
| Forma del Dominio: | Poligonale | |
| Classe Calcestruzzo: | C32/40 | |
| N°vertice: | X [cm] | Y [cm] |
| 1 | 100.0 | 80.0 |
| 2 | 100.0 | 0.0 |
| 3 | 0.0 | 0.0 |
| 4 | 0.0 | 80.0 |

DATI BARRE ISOLATE

| | | | |
|---------|--------|--------|-----------|
| N°Barra | X [cm] | Y [cm] | DiamØ[mm] |
| 1 | 91.0 | 71.0 | 24 |
| 2 | 91.0 | 9.0 | 24 |
| 3 | 9.0 | 9.0 | 24 |
| 4 | 9.0 | 71.0 | 24 |

DATI GENERAZIONI LINEARI DI BARRE

| | | | | |
|--------------|---|--------------|---------|---|
| N°Gen. | Numero assegnato alla singola generazione lineare di barre | | | |
| N°Barra Ini. | Numero della barra iniziale cui si riferisce la generazione | | | |
| N°Barra Fin. | Numero della barra finale cui si riferisce la generazione | | | |
| N°Barre | Numero di barre generate equidistanti cui si riferisce la generazione | | | |
| Ø | Diametro in mm delle barre della generazione | | | |
| N°Gen. | N°Barra Ini. | N°Barra Fin. | N°Barre | Ø |

| | | | | | |
|--|--|--|-------|---------------|---|
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| | | | | |
|---|---|---|---|----|
| 1 | 2 | 3 | 3 | 24 |
| 2 | 1 | 4 | 3 | 24 |

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | | | |
|---------|---|---------|------|------|------|
| N | Sforzo normale [kN] applicato nel Baric. (+ se di compressione) | | | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia con verso positivo se tale da comprimere il lembo sup. della sez. | | | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia con verso positivo se tale da comprimere il lembo destro della sez. | | | | |
| Vy | Componente del Taglio [kN] parallela all'asse princ.d'inerzia y | | | | |
| Vx | Componente del Taglio [kN] parallela all'asse princ.d'inerzia x | | | | |
| N°Comb. | N | Mx | My | Vy | Vx |
| 1 | 820.00 | -730.00 | 0.00 | 0.00 | 0.00 |
| 2 | 690.00 | -405.00 | 0.00 | 0.00 | 0.00 |

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|---------|------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 1120.00 | -415.00 | 0.00 |

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|--------------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 1120.00 | -240.00 (-1124.92) | 0.00 (0.00) |



COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

| | | | |
|---------|--|--------------|-------------|
| N | Sforzo normale [kN] applicato nel Baricentro (+ se di compressione) | | |
| Mx | Momento flettente [kNm] intorno all'asse x princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione | | |
| My | Momento flettente [kNm] intorno all'asse y princ. d'inerzia (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo destro della sezione | | |
| N°Comb. | N | Mx | My |
| 1 | 610.00 | -5.00 (0.00) | 0.00 (0.00) |

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali: 7.8 cm

| | | | | |
|---|--|---|-------|----------------|
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VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE ULTIMO

| | |
|----------|--|
| Ver | S = combinazione verificata / N = combin. non verificata |
| N | Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione) |
| Mx | Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia |
| My | Componente del momento assegnato [kNm] riferito all'asse y princ. d'inerzia |
| N Res | Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.) |
| Mx Res | Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia |
| My Res | Momento flettente resistente [kNm] riferito all'asse y princ. d'inerzia |
| Mis.Sic. | Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My) Verifica positiva se tale rapporto risulta >=1.000 |
| As Tesa | Area armature trave [cm ²] in zona tesa. [Tra parentesi l'area minima ex (4.1.15)NTC] |

| N°Comb | Ver | N | Mx | My | N Res | Mx Res | My Res | Mis.Sic. | As Tesa |
|------------|-----|--------|---------|------|--------|---------|--------|----------|---------|
| 1 | S | 820.00 | -730.00 | 0.00 | 819.93 | -876.71 | 0.00 | 1.20 | |
| 22.6(14.3) | | | | | | | | | |
| 2 | S | 690.00 | -405.00 | 0.00 | 690.08 | -835.94 | 0.00 | 2.06 | |
| 22.6(14.3) | | | | | | | | | |

METODO AGLI STATI LIMITE ULTIMI - DEFORMAZIONI UNITARIE ALLO STATO ULTIMO

| | |
|--------|--|
| ec max | Deform. unit. massima del calcestruzzo a compressione |
| x/d | Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45 |
| Xc max | Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| Yc max | Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.) |
| es min | Deform. unit. minima nell'acciaio (negativa se di trazione) |
| Xs min | Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| Ys min | Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.) |
| es max | Deform. unit. massima nell'acciaio (positiva se di compress.) |
| Xs max | Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |
| Ys max | Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.) |

| N°Comb | ec max | x/d | Xc max | Yc max | es min | Xs min | Ys min | es max | Xs max | Ys max |
|--------|---------|-------|--------|--------|---------|--------|--------|----------|--------|--------|
| 1 | 0.00350 | 0.142 | 0.0 | 0.0 | 0.00037 | 9.0 | 9.0 | -0.02115 | 91.0 | 71.0 |
| 2 | 0.00350 | 0.136 | 0.0 | 0.0 | 0.00023 | 9.0 | 9.0 | -0.02226 | 91.0 | 71.0 |

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA

| | |
|---------|---|
| a, b, c | Coeff. a, b, c nell'eq. dell'asse neutro aX+bY+c=0 nel rif. X,Y,O gen. |
| x/d | Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45 |
| C.Rid. | Coeff. di riduz. momenti per sola flessione in travi continue |



| N°Comb | a | b | c | x/d | C.Rid. |
|--------|-------------|--------------|-------------|-------|--------|
| 1 | 0.000000000 | -0.000347247 | 0.003500000 | 0.142 | 0.700 |
| 2 | 0.000000000 | -0.000362831 | 0.003500000 | 0.136 | 0.700 |

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| | |
|----------------|--|
| Ver | S = comb. verificata/ N = comb. non verificata |
| Sc max | Massima tensione (positiva se di compressione) nel calcestruzzo [MPa] |
| Xc max, Yc max | Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O) |
| Ss min | Minima tensione (negativa se di trazione) nell'acciaio [MPa] |
| Xs min, Ys min | Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O) |
| Ac eff. | Area di calcestruzzo [cm ²] in zona tesa considerata aderente alle barre |
| As eff. | Area barre [cm ²] in zona tesa considerate efficaci per l'apertura delle fessure |

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 6.01 | 100.0 | 0.0 | -78.2 | 9.0 | 71.0 | 1400 | 22.6 |

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| | | | | |
|---|---|-------|----------------|---|
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La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm}

Ver. Esito della verifica

e1 Massima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata

e2 Minima deformazione unitaria di trazione nel calcestruzzo (trazione -) valutata in sezione fessurata

k1 = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2]

kt = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2]

k2 = 0.5 per flessione; $= (e1 + e2) / (2 * e1)$ per trazione eccentrica [eq.(7.13)EC2]

k3 = 3.400 Coeff. in eq.(7.11) come da annessi nazionali

k4 = 0.425 Coeff. in eq.(7.11) come da annessi nazionali

Ø Diametro [mm] equivalente delle barre tese comprese nell'area efficace $A_{c\ eff}$ [eq.(7.11)EC2]

Cf Copriferro [mm] netto calcolato con riferimento alla barra più tesa

e sm - e cm Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC]

sr max Tra parentesi: valore minimo = 0.6 S_{max} / E_s [(7.9)EC2 e (C4.1.8)NTC]

Massima distanza tra le fessure [mm]

wk Apertura fessure in mm calcolata = $sr\ max * (e_sm - e_cm)$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi

Mx fess. Componente momento di prima fessurazione intorno all'asse X [kNm]

My fess. Componente momento di prima fessurazione intorno all'asse Y [kNm]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|----------------|---------|---------|
| 1 | S | -0.00050 | 0.00000 | 0.500 | 24.0 | 78 | 0.00023 (0.00023) | 518 | 0.121 (990.00) | -617.04 | 0.00 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 3.40 | 100.0 | 0.0 | -8.1 | 29.5 | 71.0 | 950 | 22.6 |

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]



| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|----------|---------|-------|------|----|-------------------|--------|--------------|----------|---------|
| 1 | S | -0.00008 | 0.00000 | 0.500 | 24.0 | 78 | 0.00002 (0.00002) | 437 | 0.011 (0.20) | -1124.92 | 0.00 |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)



| N°Comb | Ver | Sc max | Xc max | Yc max | Ss min | Xs min | Ys min | Ac eff. | As eff. |
|--------|-----|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | S | 0.74 | 0.0 | 0.0 | 10.1 | 91.0 | 71.0 | --- | --- |

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

| Comb. | Ver | e1 | e2 | k2 | Ø | Cf | e sm - e cm | sr max | wk | Mx fess | My fess |
|-------|-----|---------|---------|-----|-----|-----|-------------|--------|--------------|---------|---------|
| 1 | S | 0.00000 | 0.00000 | --- | --- | --- | --- | --- | 0.000 (0.20) | 0.00 | 0.00 |

| | | | | | |
|---|--|---|-------------|----------------------------|---|
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| | | | | | |
|---|--------------------------|---------------------------------|------------|------------------------|-----|
| SEZIONE | | | | | |
| b_w | = | 100 | cm | | |
| h | = | 80 | cm | | |
| c | = | 5 | cm | | |
| d | = | $h-c$ | = | 75 | cm |
| MATERIALI | | | | | |
| f_{ywd} | = | 391.30 | MPa | | |
| R_{ck} | = | 40 | MPa | | |
| γ_c | = | 1.5 | | | |
| f_{ck} | = | $0.83 \times R_{ck}$ | = | 33.2 | MPa |
| f_{cd} | = | $0.85 \times f_{ck} / \gamma_c$ | = | 18.81 | MPa |
| ARMATURE A TAGLIO | | | | | |
| \varnothing_{st} | = | 12 | | | |
| braccia | = | 3 | | | |
| \varnothing_{st2} | = | 0 | | | |
| braccia | = | 0 | | | |
| passo | = | 33 | cm | | |
| (A_{sw} / s) | = | 10.282 | cm^2 / m | | |
| α | = | 90 | ° | (90° staffe verticali) | |
| TAGLIO AGENTE | | $V_{Ed} =$ | 250 | (KN) | |
| SFORZO NORMALE | | $N_{Ed} =$ | 0 | (KN) | |
| | | $\alpha_c =$ | 1.0000 | | |
| ELEMENTI CON ARMATURA A TAGLIO | | | | | |
| Calcolo di $\cot \theta$ | | | | | |
| $\cot(\theta) =$ | 4.73 | | | | |
| $\theta =$ | 11.94 ° | | | | |
| $\cot \vartheta > 2,5$ Si assume $\vartheta = 21,8^\circ$ | | | | | |
| Armatura trasversale | | | | | |
| $V_{Rsd} =$ | 678.92 (KN) | | | | |
| $V_{Rcd} =$ | 2189.48 (KN) | | | | |
| $V_{Rd} =$ | 679 (KN) | | | | |
| | $\min(V_{Rsd}, V_{Rcd})$ | | | | |

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14 VERIFICHE GEOTECNICHE

14.1 VERIFICA DELLA CAPACITÀ PORTANTE

La verifica a capacità portante del complesso fondazione – terreno è stata effettuata applicando la combinazione (A1+M1+R3) dell'Approccio 2, tenendo conto dei valori dei coefficienti parziali riportati nelle Tabelle 6.2.I, 6.2.II e 6.4.I delle NTC2008. I coefficienti γ_R sono riportati nella seguente tabella 6.4.I delle NTC08):

Tab. 6.4.I – Coefficienti parziali γ_R per le verifiche agli stati limite ultimi di fondazioni superficiali

| Verifica | Coefficiente parziale |
|---------------|-----------------------|
| | (R3) |
| Carico limite | $\gamma_R = 2,3$ |
| Scorrimento | $\gamma_R = 1,1$ |

La pressione limite puo' essere calcolata in base alla formula generale di Brinch Hansen (1970):

$$q_{lim} = 0.5 \cdot \gamma \cdot B N_{\gamma} s_{\gamma} i_{\gamma} b_{\gamma} g_{\gamma} + q \cdot N_{q} s_q d_q i_q b_q g_q + c N_c s_c d_c i_c b_c g_c$$

(valida in condizioni drenate)

$$q_{lim} = c_U N_c^* d_c^* i_c^* s_c^* b_c^* g_c^* + q$$

(valida in condizioni non drenate)

essendo

N_q, N_c, N_{γ} i fattori di capacità portante in condizioni drenate;

N_c^* il fattore di capacità portante in condizioni non drenate;

$s_{\gamma} s_q s_c$ i fattori di forma della fondazione;

$i_{\gamma} i_q i_c$ i fattori correttivi per l'inclinazione del carico;

$b_{\gamma} b_q b_c$ i fattori correttivi per l'inclinazione della base della fondazione;

$g_{\gamma} g_q g_c$ i fattori correttivi per l'inclinazione del piano campagna;

$d_{\gamma} d_q d_c$ i fattori correttivi per la profondità del piano di posa;



$d_c^* i_c^* s_c^* b_c^* g_c^*$ i fattori correttivi corrispondenti rispettivamente a quanto sopra esposto ma validi in condizioni non drenate.

In condizioni drenate valgono le seguenti espressioni:

$$N_q = \text{tg}^2(45 + \phi' / 2) * e^{(\pi * \text{tg} \phi')}$$

$$N_c = (N_q - 1) / \text{tg} \phi'$$

$$N_{\gamma} = 1.5(N_q - 1) * \text{tg} \phi'$$

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$$i_{\gamma} = \left[1 - \frac{H}{N + B' \cdot c \cdot \cotg \phi'} \right]^{m+1}$$

$$i_{\alpha} = i_c = \left[1 - \frac{H}{N + B' \cdot c \cdot \cotg \phi'} \right]^m$$

$$d_{\alpha} = 1 + 2 \operatorname{tg} \phi' \cdot (1 - \sin \phi')^2 \cdot \frac{D}{B'} \quad \text{per } D/B' \leq 1$$

$$d_{\alpha} = 1 + 2 \operatorname{tg} \phi' \cdot (1 - \sin \phi')^2 \cdot \operatorname{arctg} \left(\frac{D}{B'} \right) \quad \text{per } D/B' > 1$$

$$d_c = d_{\alpha} - \frac{1 - d_{\alpha}}{N_c \operatorname{tg} \phi'}$$

$$s_{\alpha} = 1 + (B/2) \operatorname{tg} \phi'$$

$$s_{\gamma} = 1 - 0.4B/4$$

$$s_c = 1 + \frac{N_q B}{N_c L}$$

$$g_{\gamma} = g_{\alpha} = (1 - 0.5 \operatorname{tg} \beta)^5$$

$$g_c = 1 - \beta^{\circ} / 147^{\circ}$$

$$b_{\alpha} = e^{(-2.7 \operatorname{tg} \phi')}$$

$$b_{\gamma} = e^{(-2.7 \operatorname{tg} \phi')}$$

ove $\beta + \eta \leq 90^{\circ}$ e $\beta \leq \phi$

In condizioni non drenate i fattori hanno le seguenti espressioni:

$$N_c^* = (2 + \pi)$$

$$s_c^* = 0.2 + \frac{B}{L}$$



$$i_c^* = \left[1 - \frac{mH}{B' c u N_c} \right]^m$$

$$d_c^* = 0.4 + \frac{D}{B} \quad \text{per } D/B \leq 1$$

$$d_c^* = 0.4 + \frac{\operatorname{tg}^{-1} D}{B} \quad \text{per } D/B > 1$$

$$g_c^* = \beta^{\circ} / 147^{\circ}$$

$$b_c^* = \eta^{\circ} / 147^{\circ}$$

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Si sono indicate con:

- q = γ^*D = pressione verticale totale agente alla quota di imposta della fondazione;
 B' = larghezza efficace equivalente della fondazione;
 γ = peso di volume naturale del terreno;
 c_u = coesione non drenata;
 D = affondamento della fondazione;
 H = carico orizzontale agente.

Per valutare gli effetti dell'eccentricità è necessario inserire nell'equazione della capacità due dimensioni L' e B' ridotte secondo le:

$$L' = L - 2e_x$$

$$B' = B - 2e_y$$

dove B e L sono le reali dimensioni della fondazione e e_x e e_y sono le eccentricità.

Si riporta di seguito la verifica per la condizione più gravosa.

L'azione complessiva trasmessa al terreno dalla fondazione nella condizione più gravosa è pari a circa 3420.6 kN per una striscia di larghezza unitaria e $3420.6 \times 12.7 = 43442$ kN globalmente per la struttura in esame.

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Fondazioni Dirette
Verifica in tensioni totali

$$q_{lim} = c_u \cdot N_c \cdot s_c \cdot d_c \cdot i_c \cdot b_c \cdot g_c + q \cdot N_q$$

D = Profondità del piano di appoggio

e_B = Eccentricità in direzione B ($e_B = M_b/N$)

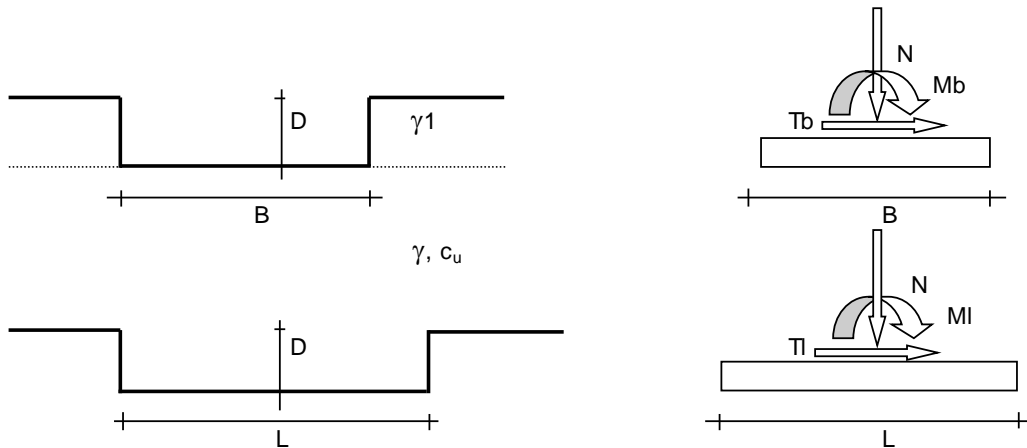
e_L = Eccentricità in direzione L ($e_L = M_l/N$) (per fondazione nastriforme $e_L = 0$; $L^* = L$)

B^* = Larghezza fittizia della fondazione ($B^* = B - 2 \cdot e_B$)

L^* = Lunghezza fittizia della fondazione ($L^* = L - 2 \cdot e_L$)

coefficienti parziali



| Metodo di calcolo | azioni | | proprietà del terreno | resistenze | |
|------------------------------|-------------|----------------------|-----------------------|-------------|-------------|
| | permanenti | temporanee variabili | c_u | q_{lim} | scorr |
| Stato Limite Ultimo A1+M1+R3 | 1.30 | 1.50 | 1.00 | 2.30 | 1.10 |
| SISMA | 1.00 | 1.00 | 1.00 | 2.30 | 1.10 |
| Definiti dal Progettista | 1.00 | 1.00 | 1.00 | 2.30 | 1.10 |



(Per fondazioni nastriformi $L=100$ m)

- B = 16.60 (m)
- L = 12.70 (m)
- D = 8.35 (m)



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AZIONI

| | valori di input | | Valori di calcolo |
|----------|-----------------|------------|-------------------|
| | permanenti | temporanee | |
| N [kN] | 43442 | | 43441.62 |
| Mb [kNm] | 11535 | | 11535.41 |
| MI [kNm] | 0.00 | | 0.00 |
| Tb [kN] | 2621 | | 2621.28 |
| TI [kN] | 0.00 | | 0.00 |
| H [kN] | 2621 | 0.00 | 2621.28 |

Peso unità di volume del terreno

$$\gamma_1 = 17.50 \quad (\text{kN/mc})$$

$$\gamma = 17.50 \quad (\text{kN/mc})$$

Valore caratteristico di resistenza del terreno

$$c_u = 60.00 \quad (\text{kN/mq})$$

$$e_B = 0.27 \quad (\text{m})$$

$$e_L = 0.00 \quad (\text{m})$$

Valore di progetto

$$c_u = 60.00 \quad (\text{kN/mq})$$

$$B^* = 16.07 \quad (\text{m})$$

$$L^* = 12.70 \quad (\text{m})$$

q : sovraccarico alla profondità D

$$q = 146.13 \quad (\text{kN/mq})$$

γ : peso di volume del terreno di fondazione

$$\gamma = 17.50 \quad (\text{kN/mc})$$

Nc : coefficiente di capacità portante



$$N_c = 2 + \pi$$

$$N_c = 5.14$$

s_c : fattori di forma

$$s_c = 1 + 0,2 B^* / L^*$$

$$s_c = 1.16$$

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i_c: fattore di inclinazione del carico

$$m_b = (2 + B^* / L^*) / (1 + B^* / L^*) = 1.56$$

$$m_l = (2 + L^* / B^*) / (1 + L^* / B^*) = 1.44$$

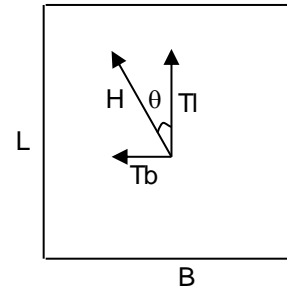
$$\theta = \arctg(T_b/T_l) = 90.00 \quad (^\circ)$$

$$m = 1.56$$

(m=2 nel caso di fondazione nastriforme e
 $m=(m_b \sin^2 \theta + m_l \cos^2 \theta)$ in tutti gli altri casi)

$$i_c = (1 - m H / (B^* L^* c_u^* N_c))$$

$$i_c = 0.94$$



d_c: fattore di profondità del piano di appoggio

per $D/B^* \leq 1$; $d_c = 1 + 0,4 D / B^*$

per $D/B^* > 1$; $d_c = 1 + 0,4 \arctan (D / B^*)$

$$d_c = 1.26$$

b_c: fattore di inclinazione base della fondazione

$$b_c = (1 - 2 \beta_f / (\pi + 2)) \quad \beta_f + \beta_p = 0.00 \quad \beta_f + \beta_p < 45^\circ$$

$$b_c = 1.00$$

g_c: fattore di inclinazione piano di campagna

$$g_c = (1 - 2 \beta_f / (\pi + 2)) \quad \beta_f + \beta_p = 0.00 \quad \beta_f + \beta_p < 45^\circ$$

$$g_c = 1.00$$



Carico limite unitario

$$q_{lim} = 567.92 \quad (\text{kN/m}^2)$$

Pressione massima agente

$$q = N / B^* L^*$$

$$q = 212.87 \quad (\text{kN/m}^2)$$

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Verifica di sicurezza capacità portante

$$q_{lim} / \gamma_R = 246.92 \geq q = 212.87 \text{ (kN/m}^2\text{)}$$

VERIFICA A SCORRIMENTO

Carico agente

$$H_d = 2621.28 \text{ (kN)}$$



Azione Resistente

$$S_d = c_u B^* L^*$$

$$S_d = 12244.52 \text{ (kN)}$$

Verifica di sicurezza allo scorrimento

$$S_d / \gamma_R = 11131.4 \geq H_d = 2621.28 \text{ (kN)}$$

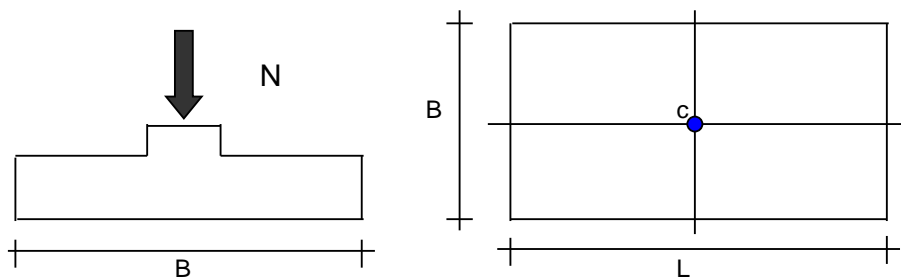
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14.2 VALUTAZIONE DEI CEDIMENTI

Si esibisce di seguito il calcolo dei cedimenti in fondazione dell'opera in esame.

CEDIMENTI DI UNA FONDAZIONE RETTANGOLARE

LAVORO:



Formulazione Teorica (H.G. Poulos, E.H. Davis; 1974)

$$\Delta\sigma_{zi} = (q/2\pi) * (\tan^{-1}((L/2)(B/2)/(zR_3)) + ((L/2)(B/2)z/R_3)(1/R_1^2 + 1/R_2^2))$$

$$\Delta\sigma_{xi} = (q/2\pi) * (\tan^{-1}((L/2)(B/2)/(zR_3)) - ((L/2)(B/2)z/R_3 R_1^2))$$



$$\Delta\sigma_{yi} = (q/2\pi) * (\tan^{-1}((L/2)(B/2)/(zR_3)) - ((L/2)(B/2)z/R_3 R_2^2))$$

$$R_1 = ((L/2)^2 + z^2)^{0.5}$$

$$R_2 = ((B/2)^2 + z^2)^{0.5}$$

$$R_3 = ((L/2)^2 + (B/2)^2 + z^2)^{0.5}$$

$$\delta_{ot} = \Sigma \delta_i = \Sigma (((\Delta\sigma_{zi} - v_i(\Delta\sigma_{xi} + \Delta\sigma_{yi})) \Delta z_i / E_i)$$

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DATI DI INPUT:

B = 16.60 (m) (Larghezza della Fondazione)
L = 12.70 (m) (Lunghezza della Fondazione)
N = 28750 (kN) (Carico Verticale Agente)
q = 136.37 (kN/mq) (Pressione Agente (q = N/(B*L)))
ns = 6 (-) (numero strati) (massimo 6)

| Strato | Litologia | Spessore | da z _i | a z _{i+1} | Δz _i | E | v | δ _{ci} |
|--------|-----------|----------|-------------------|--------------------|-----------------|----------------------|------|-----------------|
| (-) | (-) | (m) | (m) | (m) | (m) | (kN/m ²) | (-) | (cm) |
| 1 | 3b | 7.00 | 0.0 | 7.0 | 1.0 | 8000 | 0.30 | 7.53 |
| 2 | 4 | 1.50 | 7.0 | 8.5 | 1.0 | 40000 | 0.30 | 0.18 |
| 3 | 3b | 7.50 | 8.5 | 16.0 | 1.0 | 8000 | 0.30 | 4.88 |
| 4 | 4 | 3.00 | 16.0 | 19.0 | 1.0 | 40000 | 0.30 | 0.22 |
| 5 | 3b | 2.00 | 19.0 | 21.0 | 1.0 | 10000 | 0.30 | 0.47 |
| 6 | 6 | 5.50 | 21.0 | 26.5 | 1.0 | 250000 | 0.30 | 0.0363 |

$$\delta_{ctot} = 13.32 \text{ (cm)}$$

Il cedimento totale risulta essere pari a 13.32 cm.

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14.3 VERIFICA A SOLLEVAMENTO

In accordo con quanto prescritto nella normativa di riferimento NTC2008-§6.2.3.2, si riporta di seguito la verifica di sollevamento dell'opera, in quanto interessata dalla presenza della sottospinta idraulica (Verifica nei confronti degli stati limite ultimi idraulici).

I coefficienti parziali sulle azioni, per le verifiche di stabilità al sollevamento, sono indicati nella Tabella 6.2.III della normativa NTC2008.



Tabella 6.2.III – Coefficienti parziali sulle azioni per le verifiche nei confronti di stati limite di sollevamento.

| CARICHI | EFFETTO | Coefficiente parziale γ_F (o γ_E) | SOLLEVAMENTO (UPL) |
|---|-------------|--|--------------------|
| Permanenti | Favorevole | γ_{G1} | 0,9 |
| | Sfavorevole | | 1,1 |
| Permanenti non strutturali ⁽¹⁾ | Favorevole | γ_{G2} | 0,0 |
| | Sfavorevole | | 1,5 |
| Variabili | Favorevole | γ_Q | 0,0 |
| | Sfavorevole | | 1,5 |

(1) Nel caso in cui i carichi permanenti non strutturali (ad es. i carichi permanenti portati) siano compiutamente definiti, si potranno adottare gli stessi coefficienti validi per le azioni permanenti.

Risulta quanto segue:

| SOLLEVAMENTO (Verifiche nei confronti degli stati limite ultimi idraulici) | | | | |
|--|-----|---|--------|----|
| Carico permanente strutturale G1 | | | | |
| Peso soletta superiore | | | 415.00 | kN |
| Peso soletta fondazione | | | 435.00 | kN |
| Peso piedritti (x2) | | | 275.00 | kN |
| Peso piedritto centrale | | | 110.00 | kN |
| Coefficiente sicurezza | | | 0.90 | - |
| Carico permanente non strutturale G2 | | | | |
| Carico permanente TOT. Portato dalla soletta superiore | | | 0.00 | kN |
| Permanenti portati soletta inferiore | | | 0.00 | kN |
| Coefficiente sicurezza | | | 0.80 | - |
| Azione stabilizzante | PP | = | 111.50 | kN |
| Azione dell'acqua | | | | |
| Quota Falda dalla quota di intradosso della fondazione | | | 1.83 | m |
| Larghezza totale del sottopasso | | | 16.60 | m |
| Sottospinta idraulica | SPW | = | 303.78 | kN |

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| | | | | | |
|--------------------------------------|-----------|---|-------------|-------------------|----------|
| Coefficiente sicurezza | | | 1.1 | | |
| | | | | | |
| Fattore di sicurezza al sollevamento | FS | = | 3.33 | > | 1 |
| | | | | Verificato | |

La verifica al sollevamento dell'opera risulta soddisfatta.

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15 ALLEGATO: TABULATI DI CALCOLO

15.1 INPUT

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/ Straus7MODEL EXCHANGE FILE
/ TIMESTAMP: 13:18:03 pm, 1 settembre 2021

/

—

/ MODEL INFORMATION

FileFormat Straus7.2.4.6

ModelName Scatolare SL09

Title

Project

Author

Reference

Comments

/

—



/ UNITS

LengthUnit m

MassUnit kg

EnergyUnit J

PressureUnit kPa

| | | | | |
|---|---|-------------|----------------------------|---|
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ForceUnit kN

TemperatureUnit C

/

-

/ GROUP DEFINITIONS

Group 1 16711680 \\Model

Group 2 3355647 0

/

-

/ FREEDOM CASE DEFINITIONS

FreedomCase 2 0 0 Freedom Case 1

DZ RX RY

/

-

/ LOAD CASE DEFINITIONS



LoadCase 2 1 PP

Gravity 2 -9.81E+00



LCInclude 3

LoadCase 3 0 PERM



LCInclude 3

| | | | | |
|---|---|-------------|----------------------------|---|
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| | | | |
|-----------|----|---|--------------|
| LoadCase | 4 | 0 | SPTSX |
| LCInclude | 3 | | |
| LoadCase | 5 | 0 | SPTDX |
| LCInclude | 3 | | |
| LoadCase | 6 | 0 | SPTW |
| LCInclude | 3 | | |
| LoadCase | 7 | 0 | ACC_LM71 |
| LCInclude | 3 | | |
| LoadCase | 23 | 0 | ACC_LM71_2 |
| LCInclude | 3 | | |
| LoadCase | 8 | 0 | ACC_SW2 |
| LCInclude | 3 | | |
| LoadCase | 9 | 0 | SPACCSX_LM71 |
| LCInclude | 3 | | |
| LoadCase | 10 | 0 | SPACCDX_LM71 |
| LCInclude | 3 | | |
| LoadCase | 11 | 0 | SPACCSX_SW2 |
| LCInclude | 3 | | |

| | | | | |
|---|---|-------------|----------------------------|---|
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| | | | |
|-----------|----|---|-------------|
| LoadCase | 12 | 0 | SPACCDX_SW2 |
| LCInclude | 3 | | |
| LoadCase | 13 | 0 | AVV_LM71 |
| LCInclude | 3 | | |
| LoadCase | 22 | 0 | FREN_SW2 |
| LCInclude | 3 | | |
| LoadCase | 14 | 0 | SERP |
| LCInclude | 3 | | |
| LoadCase | 15 | 0 | TERM |
| LCInclude | 3 | | |
| LoadCase | 16 | 0 | RITIRO |
| LCInclude | 3 | | |
| LoadCase | 17 | 0 | ACC_SOLINF |
| LCInclude | 3 | | |
| LoadCase | 18 | 2 | SISMA_H |
| LCInclude | 3 | | |
| LoadCase | 19 | 2 | SISMA_V |
| LCInclude | 3 | | |
| LoadCase | 20 | 0 | SPSSX |
| LCInclude | 3 | | |

| | | | | |
|---|---|-------------|----------------------------|---|
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LoadCase 21 0 SPSDX
LCInclude 3

/

-



/ LOAD CASE COMBINATIONS

LoadCaseCombination 23 SLU01

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |

LoadCaseCombination 24 SLU02

| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |
| 15 | 2 | -9.00E-01 |
| 16 | 2 | 1.20E+00 |
| 17 | 2 | 1.16E+00 |

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

LoadCaseCombination 25 SLU03



| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |

LoadCaseCombination 26 SLU04

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |

LoadCaseCombination 27 SLU05

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |
| 17 | 2 | 1.16E+00 |

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

LoadCaseCombination 28 SLU06

| | | |
|---|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 9 | 2 | 1.45E+00 |

LoadCaseCombination 29 SLU07



| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |
| 15 | 2 | -9.00E-01 |

LoadCaseCombination 30 SLU08

| | | |
|---|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 9 | 2 | 1.45E+00 |

LoadCaseCombination 31 SLU09

| | | |
|---|---|----------|
| 2 | 2 | 1.35E+00 |
|---|---|----------|

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

| | | |
|----|---|----------|
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 15 | 2 | 9.00E-01 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 32 SLU10

| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 10 | 2 | 1.45E+00 |
| 15 | 2 | -9.00E-01 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 33 SLU11

| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.16E+00 |
| 15 | 2 | -1.50E+00 |
| 16 | 2 | 1.20E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

LoadCaseCombination 34 SLU12



| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.16E+00 |
| 15 | 2 | 1.50E+00 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 35 SLU13

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 1.45E+00 |
| 11 | 2 | 1.45E+00 |
| 22 | 2 | 1.45E+00 |

LoadCaseCombination 36 SLU14

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 1.45E+00 |
| 22 | 2 | 1.45E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | |
|----|---|-----------|
| 15 | 2 | -9.00E-01 |
| 16 | 2 | 1.20E+00 |
| 17 | 2 | 1.16E+00 |

LoadCaseCombination 37 SLU15



| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |
| 22 | 2 | 1.45E+00 |

LoadCaseCombination 38 SLU16

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |
| 11 | 2 | 1.45E+00 |
| 22 | 2 | 1.45E+00 |

LoadCaseCombination 39 SLU17

| | | |
|---|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | |
|----|---|----------|
| 11 | 2 | 1.45E+00 |
| 22 | 2 | 1.45E+00 |
| 17 | 2 | 1.16E+00 |

LoadCaseCombination 40 SLU18



| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 11 | 2 | 1.45E+00 |

LoadCaseCombination 41 SLU19

| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |
| 11 | 2 | 1.45E+00 |
| 22 | 2 | 1.45E+00 |
| 15 | 2 | -9.00E-01 |

LoadCaseCombination 42 SLU20

| | | |
|----|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 11 | 2 | 1.45E+00 |

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

LoadCaseCombination 43 SLU21



| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |
| 11 | 2 | 1.45E+00 |
| 15 | 2 | 9.00E-01 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 44 SLU22

| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |
| 12 | 2 | 1.45E+00 |
| 15 | 2 | -9.00E-01 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 45 SLU23

| | | |
|---|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|-----------|
| 11 | 2 | 1.16E+00 |
| 15 | 2 | -1.50E+00 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 46 SLU24

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |
| 11 | 2 | 1.16E+00 |
| 15 | 2 | 1.50E+00 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 47 SLU_SISMA01

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 2.00E-01 |
| 9 | 2 | 2.00E-01 |
| 13 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | 1.00E+00 |
| 19 | 2 | 3.00E-01 |
| 21 | 2 | 1.00E+00 |



| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

LoadCaseCombination 48 SLU_SISMA02

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 2.00E-01 |
| 9 | 2 | 2.00E-01 |
| 13 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | 1.00E+00 |
| 19 | 2 | -3.00E-01 |
| 21 | 2 | 1.00E+00 |

LoadCaseCombination 49 SLU_SISMA03

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 2.00E-01 |
| 9 | 2 | 2.00E-01 |
| 13 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | -1.00E+00 |
| 19 | 2 | 3.00E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

20 2 1.00E+00

LoadCaseCombination 50 SLU_SISMA04

2 2 1.00E+00

3 2 1.00E+00

4 2 1.00E+00

5 2 1.00E+00

6 2 1.00E+00

7 2 2.00E-01

9 2 2.00E-01

13 2 2.00E-01

15 2 -5.00E-01

16 2 1.00E+00

18 2 -1.00E+00

19 2 -3.00E-01

20 2 1.00E+00

LoadCaseCombination 51 SLU_SISMA05

2 2 1.00E+00

3 2 1.00E+00

4 2 1.00E+00

5 2 1.00E+00

6 2 1.00E+00

7 2 2.00E-01



9 2 2.00E-01

13 2 2.00E-01

15 2 -5.00E-01

16 2 1.00E+00

18 2 3.00E-01

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

19 2 1.00E+00
21 2 3.00E-01

LoadCaseCombination 52 SLU_SISMA06

2 2 1.00E+00
3 2 1.00E+00
4 2 1.00E+00
5 2 1.00E+00
6 2 1.00E+00
7 2 2.00E-01
9 2 2.00E-01
13 2 2.00E-01
15 2 -5.00E-01
16 2 1.00E+00
18 2 3.00E-01
19 2 -1.00E+00
21 2 3.00E-01

LoadCaseCombination 53 SLU_SISMA07

2 2 1.00E+00
3 2 1.00E+00
4 2 1.00E+00
5 2 1.00E+00
6 2 1.00E+00
7 2 2.00E-01
9 2 2.00E-01
13 2 2.00E-01
15 2 -5.00E-01
16 2 1.00E+00

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|-----------|
| 18 | 2 | -3.00E-01 |
| 19 | 2 | 1.00E+00 |
| 20 | 2 | 3.00E-01 |

LoadCaseCombination 54 SLU_SISMA08

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 2.00E-01 |
| 9 | 2 | 2.00E-01 |
| 13 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | -3.00E-01 |
| 19 | 2 | -1.00E+00 |
| 20 | 2 | 3.00E-01 |

LoadCaseCombination 55 SLU_SISMA09

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |
| 11 | 2 | 2.00E-01 |
| 22 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|----------|
| 16 | 2 | 1.00E+00 |
| 18 | 2 | 1.00E+00 |
| 19 | 2 | 3.00E-01 |
| 21 | 2 | 1.00E+00 |

LoadCaseCombination 56 SLU_SISMA10

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |
| 11 | 2 | 2.00E-01 |
| 22 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | 1.00E+00 |
| 19 | 2 | -3.00E-01 |
| 21 | 2 | 1.00E+00 |

LoadCaseCombination 57 SLU_SISMA11

| | | |
|----|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |
| 11 | 2 | 2.00E-01 |
| 22 | 2 | 2.00E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|-----------|
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | -1.00E+00 |
| 19 | 2 | 3.00E-01 |
| 20 | 2 | 1.00E+00 |

LoadCaseCombination 58 SLU_SISMA12

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |
| 11 | 2 | 2.00E-01 |
| 22 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | -1.00E+00 |
| 19 | 2 | -3.00E-01 |
| 20 | 2 | 1.00E+00 |

LoadCaseCombination 59 SLU_SISMA13

| | | |
|----|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |
| 11 | 2 | 2.00E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|-----------|
| 22 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | 3.00E-01 |
| 19 | 2 | 1.00E+00 |
| 21 | 2 | 3.00E-01 |

LoadCaseCombination 60 SLU_SISMA14

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |
| 11 | 2 | 2.00E-01 |
| 22 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | 3.00E-01 |
| 19 | 2 | -1.00E+00 |
| 21 | 2 | 3.00E-01 |

LoadCaseCombination 61 SLU_SISMA15

| | | |
|---|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|-----------|
| 11 | 2 | 2.00E-01 |
| 22 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | -3.00E-01 |
| 19 | 2 | 1.00E+00 |
| 20 | 2 | 3.00E-01 |

LoadCaseCombination 62 SLU_SISMA16

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 2.00E-01 |
| 11 | 2 | 2.00E-01 |
| 22 | 2 | 2.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 1.00E+00 |
| 18 | 2 | -3.00E-01 |
| 19 | 2 | -1.00E+00 |
| 20 | 2 | 3.00E-01 |

LoadCaseCombination 63 SLE_RARA01

| | | |
|---|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|-----------|
| 7 | 2 | 8.00E-01 |
| 9 | 2 | 8.00E-01 |
| 10 | 2 | 8.00E-01 |
| 13 | 2 | -8.00E-01 |
| 15 | 2 | -6.00E-01 |
| 17 | 2 | 8.00E-01 |

LoadCaseCombination 64 SLE_RARA02

| | | |
|----|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 8.00E-01 |
| 9 | 2 | 8.00E-01 |
| 10 | 2 | 8.00E-01 |
| 13 | 2 | 8.00E-01 |
| 15 | 2 | 6.00E-01 |
| 17 | 2 | 8.00E-01 |

LoadCaseCombination 65 SLE_RARA03

| | | |
|----|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 8.00E-01 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 8.00E-01 |
| 9 | 2 | 8.00E-01 |
| 13 | 2 | 8.00E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|-----------|
| 15 | 2 | -6.00E-01 |
| 16 | 2 | 1.00E+00 |
| 17 | 2 | 8.00E-01 |

LoadCaseCombination 66 SLE_RARA04

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 8.00E-01 |
| 11 | 2 | 8.00E-01 |
| 12 | 2 | 8.00E-01 |
| 22 | 2 | -8.00E-01 |
| 15 | 2 | -6.00E-01 |
| 17 | 2 | 8.00E-01 |

LoadCaseCombination 67 SLE_RARA05

| | | |
|----|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 8.00E-01 |
| 11 | 2 | 8.00E-01 |
| 12 | 2 | 8.00E-01 |
| 22 | 2 | 8.00E-01 |
| 15 | 2 | 6.00E-01 |
| 17 | 2 | 8.00E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

LoadCaseCombination 68 SLE_RARA06

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 8.00E-01 |
| 6 | 2 | 1.00E+00 |
| 8 | 2 | 8.00E-01 |
| 11 | 2 | 8.00E-01 |
| 22 | 2 | 8.00E-01 |
| 15 | 2 | -6.00E-01 |
| 16 | 2 | 1.00E+00 |
| 17 | 2 | 8.00E-01 |

LoadCaseCombination 69 SLU25

| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |
| 23 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |
| 15 | 2 | -9.00E-01 |
| 16 | 2 | 1.20E+00 |
| 17 | 2 | 1.16E+00 |

LoadCaseCombination 70 SLU26

| | | |
|---|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | |
|----|---|----------|
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 23 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |



LoadCaseCombination 71 SLU27

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.35E+00 |
| 6 | 2 | 1.35E+00 |
| 23 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |
| 17 | 2 | 1.16E+00 |

LoadCaseCombination 72 SLU28

| | | |
|----|---|-----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 23 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 13 | 2 | 1.45E+00 |
| 15 | 2 | -9.00E-01 |

LoadCaseCombination 73 SLU29

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 23 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 15 | 2 | 9.00E-01 |
| 16 | 2 | 1.20E+00 |

LoadCaseCombination 74 SLU30

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 7 | 2 | 1.45E+00 |
| 9 | 2 | 1.45E+00 |
| 22 | 2 | 7.25E-01 |
| 14 | 2 | 1.45E+00 |

LoadCaseCombination 75 SLU31

| | | |
|----|---|----------|
| 2 | 2 | 1.35E+00 |
| 3 | 2 | 1.50E+00 |
| 4 | 2 | 1.35E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.35E+00 |
| 8 | 2 | 1.45E+00 |
| 11 | 2 | 1.45E+00 |
| 22 | 2 | 7.25E-01 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



14 2 1.45E+00

LoadCaseCombination 76 SLE_RARA07

2 2 1.00E+00
3 2 1.00E+00
4 2 1.00E+00
5 2 8.00E-01
6 2 1.00E+00
7 2 1.00E+00
9 2 1.00E+00
22 2 5.00E-01
14 2 1.00E+00
15 2 -6.00E-01
17 2 8.00E-01

LoadCaseCombination 77 SLE_RARA08

2 2 1.00E+00
3 2 1.00E+00
4 2 1.00E+00
5 2 8.00E-01
6 2 1.00E+00
8 2 1.00E+00
11 2 1.00E+00
22 2 5.00E-01
14 2 1.00E+00
15 2 -6.00E-01
17 2 8.00E-01



| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

LoadCaseCombination 78 SLE_QPERM01

| | | |
|---|---|----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 1.00E+00 |
| 6 | 2 | 1.00E+00 |

LoadCaseCombination 79 SLE_FREQ01

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 8.00E-01 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 8.00E-01 |
| 23 | 2 | 0.00E+00 |
| 8 | 2 | 0.00E+00 |
| 9 | 2 | 8.00E-01 |
| 10 | 2 | 0.00E+00 |
| 11 | 2 | 0.00E+00 |
| 12 | 2 | 0.00E+00 |
| 13 | 2 | 4.00E-01 |
| 22 | 2 | 0.00E+00 |
| 14 | 2 | 8.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 0.00E+00 |
| 17 | 2 | 8.00E-01 |
| 18 | 2 | 0.00E+00 |
| 19 | 2 | 0.00E+00 |
| 20 | 2 | 0.00E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



21 2 0.00E+00

LoadCaseCombination 80 SLE_FREQ02

| | | |
|----|---|-----------|
| 2 | 2 | 1.00E+00 |
| 3 | 2 | 1.00E+00 |
| 4 | 2 | 1.00E+00 |
| 5 | 2 | 8.00E-01 |
| 6 | 2 | 1.00E+00 |
| 7 | 2 | 0.00E+00 |
| 23 | 2 | 0.00E+00 |
| 8 | 2 | 8.00E-01 |
| 9 | 2 | 0.00E+00 |
| 10 | 2 | 0.00E+00 |
| 11 | 2 | 8.00E-01 |
| 12 | 2 | 0.00E+00 |
| 13 | 2 | 4.00E-01 |
| 22 | 2 | 0.00E+00 |
| 14 | 2 | 8.00E-01 |
| 15 | 2 | -5.00E-01 |
| 16 | 2 | 0.00E+00 |
| 17 | 2 | 8.00E-01 |
| 18 | 2 | 0.00E+00 |
| 19 | 2 | 0.00E+00 |
| 20 | 2 | 0.00E+00 |
| 21 | 2 | 0.00E+00 |

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| | | | | |
|---|--|---|-------------|---------------------------------|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | |
| | | Progetto IN17 | Lotto 12 | Codifica E12CLSL0900001 A |

/ COORDINATE SYSTEM DEFINITIONS



CoordSys 1 Global XYZ GlobalXYZ

/



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/ NODE COORDINATES

| | | | | |
|---------|---|-----------|----------|----------|
| Node 1 | 0 | -7.40E+00 | 0.00E+00 | 0.00E+00 |
| Node 2 | 0 | -7.15E+00 | 0.00E+00 | 0.00E+00 |
| Node 3 | 0 | -6.90E+00 | 0.00E+00 | 0.00E+00 |
| Node 4 | 0 | -5.18E+00 | 0.00E+00 | 0.00E+00 |
| Node 5 | 0 | -3.45E+00 | 0.00E+00 | 0.00E+00 |
| Node 6 | 0 | -1.73E+00 | 0.00E+00 | 0.00E+00 |
| Node 7 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Node 8 | 0 | 1.73E+00 | 0.00E+00 | 0.00E+00 |
| Node 9 | 0 | 3.45E+00 | 0.00E+00 | 0.00E+00 |
| Node 10 | 0 | 5.18E+00 | 0.00E+00 | 0.00E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | |
|------|----|---|-----------|----------|----------|
| Node | 11 | 0 | 6.90E+00 | 0.00E+00 | 0.00E+00 |
| Node | 12 | 0 | 7.15E+00 | 0.00E+00 | 0.00E+00 |
| Node | 13 | 0 | 7.40E+00 | 0.00E+00 | 0.00E+00 |
| Node | 14 | 0 | -7.40E+00 | 2.50E-01 | 0.00E+00 |
| Node | 15 | 0 | 7.40E+00 | 2.50E-01 | 0.00E+00 |
| Node | 16 | 0 | -7.40E+00 | 5.00E-01 | 0.00E+00 |
| Node | 17 | 0 | 7.40E+00 | 5.00E-01 | 0.00E+00 |
| Node | 18 | 0 | -7.40E+00 | 1.11E+00 | 0.00E+00 |
| Node | 19 | 0 | 7.40E+00 | 1.11E+00 | 0.00E+00 |
| Node | 20 | 0 | -7.40E+00 | 1.72E+00 | 0.00E+00 |
| Node | 21 | 0 | 7.40E+00 | 1.72E+00 | 0.00E+00 |
| Node | 22 | 0 | -7.40E+00 | 2.33E+00 | 0.00E+00 |
| Node | 23 | 0 | 7.40E+00 | 2.33E+00 | 0.00E+00 |
| Node | 24 | 0 | -7.40E+00 | 2.94E+00 | 0.00E+00 |
| Node | 25 | 0 | 7.40E+00 | 2.94E+00 | 0.00E+00 |
| Node | 26 | 0 | -7.40E+00 | 3.56E+00 | 0.00E+00 |

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

| | | | | |
|---------|---|-----------|----------|----------|
| Node 27 | 0 | 7.40E+00 | 3.56E+00 | 0.00E+00 |
| Node 28 | 0 | -7.40E+00 | 4.17E+00 | 0.00E+00 |
| Node 29 | 0 | 7.40E+00 | 4.17E+00 | 0.00E+00 |
| Node 30 | 0 | -7.40E+00 | 4.78E+00 | 0.00E+00 |
| Node 31 | 0 | 7.40E+00 | 4.78E+00 | 0.00E+00 |
| Node 32 | 0 | -7.40E+00 | 5.39E+00 | 0.00E+00 |
| Node 33 | 0 | 7.40E+00 | 5.39E+00 | 0.00E+00 |
| Node 34 | 0 | -7.40E+00 | 6.00E+00 | 0.00E+00 |
| Node 35 | 0 | 7.40E+00 | 6.00E+00 | 0.00E+00 |
| Node 36 | 0 | -7.40E+00 | 6.25E+00 | 0.00E+00 |
| Node 37 | 0 | 7.40E+00 | 6.25E+00 | 0.00E+00 |
| Node 38 | 0 | -7.40E+00 | 6.50E+00 | 0.00E+00 |
| Node 39 | 0 | -7.15E+00 | 6.50E+00 | 0.00E+00 |
| Node 40 | 0 | -6.90E+00 | 6.50E+00 | 0.00E+00 |
| Node 41 | 0 | -5.18E+00 | 6.50E+00 | 0.00E+00 |
| Node 42 | 0 | -3.45E+00 | 6.50E+00 | 0.00E+00 |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | |
|------|----|---|-----------|----------|----------|
| Node | 43 | 0 | -1.73E+00 | 6.50E+00 | 0.00E+00 |
| Node | 44 | 0 | 0.00E+00 | 6.50E+00 | 0.00E+00 |
| Node | 45 | 0 | 1.73E+00 | 6.50E+00 | 0.00E+00 |
| Node | 46 | 0 | 3.45E+00 | 6.50E+00 | 0.00E+00 |
| Node | 47 | 0 | 5.18E+00 | 6.50E+00 | 0.00E+00 |
| Node | 48 | 0 | 6.90E+00 | 6.50E+00 | 0.00E+00 |
| Node | 49 | 0 | 7.15E+00 | 6.50E+00 | 0.00E+00 |
| Node | 50 | 0 | 7.40E+00 | 6.50E+00 | 0.00E+00 |



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BEAM ELEMENTS

| | | | | | | |
|------|----|---|---|---|----|----|
| Beam | 1 | 0 | 2 | 2 | 1 | 2 |
| Beam | 2 | 0 | 2 | 2 | 2 | 3 |
| Beam | 3 | 0 | 2 | 2 | 3 | 4 |
| Beam | 4 | 0 | 2 | 2 | 4 | 5 |
| Beam | 5 | 0 | 2 | 2 | 5 | 6 |
| Beam | 6 | 0 | 2 | 2 | 6 | 7 |
| Beam | 7 | 0 | 2 | 2 | 7 | 8 |
| Beam | 8 | 0 | 2 | 2 | 8 | 9 |
| Beam | 9 | 0 | 2 | 2 | 9 | 10 |
| Beam | 10 | 0 | 2 | 2 | 10 | 11 |

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

| | | | | | |
|---------|---|---|---|----|----|
| Beam 11 | 0 | 2 | 2 | 11 | 12 |
| Beam 12 | 0 | 2 | 2 | 12 | 13 |
| Beam 13 | 0 | 2 | 3 | 1 | 14 |
| Beam 14 | 0 | 2 | 3 | 14 | 16 |
| Beam 15 | 0 | 2 | 3 | 16 | 18 |
| Beam 16 | 0 | 2 | 3 | 18 | 20 |
| Beam 17 | 0 | 2 | 3 | 20 | 22 |
| Beam 18 | 0 | 2 | 3 | 22 | 24 |
| Beam 19 | 0 | 2 | 3 | 24 | 26 |
| Beam 20 | 0 | 2 | 3 | 26 | 28 |
| Beam 21 | 0 | 2 | 3 | 28 | 30 |
| Beam 22 | 0 | 2 | 3 | 30 | 32 |
| Beam 23 | 0 | 2 | 3 | 32 | 34 |
| Beam 24 | 0 | 2 | 3 | 34 | 36 |
| Beam 25 | 0 | 2 | 3 | 36 | 38 |
| Beam 26 | 0 | 2 | 3 | 15 | 13 |
| Beam 27 | 0 | 2 | 3 | 17 | 15 |
| Beam 28 | 0 | 2 | 3 | 19 | 17 |
| Beam 29 | 0 | 2 | 3 | 21 | 19 |
| Beam 30 | 0 | 2 | 3 | 23 | 21 |
| Beam 31 | 0 | 2 | 3 | 25 | 23 |
| Beam 32 | 0 | 2 | 3 | 27 | 25 |
| Beam 33 | 0 | 2 | 3 | 29 | 27 |
| Beam 34 | 0 | 2 | 3 | 31 | 29 |
| Beam 35 | 0 | 2 | 3 | 33 | 31 |
| Beam 36 | 0 | 2 | 3 | 35 | 33 |
| Beam 37 | 0 | 2 | 3 | 37 | 35 |
| Beam 38 | 0 | 2 | 3 | 50 | 37 |
| Beam 39 | 0 | 2 | 4 | 38 | 39 |
| Beam 40 | 0 | 2 | 4 | 39 | 40 |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | |
|---------|---|---|---|----|----|
| Beam 41 | 0 | 2 | 4 | 40 | 41 |
| Beam 42 | 0 | 2 | 4 | 41 | 42 |
| Beam 43 | 0 | 2 | 4 | 42 | 43 |
| Beam 44 | 0 | 2 | 4 | 43 | 44 |
| Beam 45 | 0 | 2 | 4 | 44 | 45 |
| Beam 46 | 0 | 2 | 4 | 45 | 46 |
| Beam 47 | 0 | 2 | 4 | 46 | 47 |
| Beam 48 | 0 | 2 | 4 | 47 | 48 |
| Beam 49 | 0 | 2 | 4 | 48 | 49 |
| Beam 50 | 0 | 2 | 4 | 49 | 50 |

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/ NODE RESTRAINTS (ROTATION AS RADIAN)



/ Freedom Case 1
NdFreedom 2 1 1 DX
NdFreedom 2 13 1 DX

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/ BEAM SUPPORTS

/ Freedom Case 1
BmSupport 2 1 0.00E+00 4.00E+03
BmSupport 2 2 0.00E+00 4.00E+03
BmSupport 2 3 0.00E+00 4.00E+03

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | |
|-----------|---|----|----------|----------|
| BmSupport | 2 | 4 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 5 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 6 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 7 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 8 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 9 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 10 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 11 | 0.00E+00 | 4.00E+03 |
| BmSupport | 2 | 12 | 0.00E+00 | 4.00E+03 |

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/ NODE FORCES

/ PERM

| | | | | | |
|---------|---|----|----------|-----------|----------|
| NdForce | 3 | 38 | 0.00E+00 | -6.75E+00 | 0.00E+00 |
| NdForce | 3 | 50 | 0.00E+00 | -6.75E+00 | 0.00E+00 |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

/ BEAM GLOBAL DISTRIBUTED LOADS

/ PERM

| | | | | | | | |
|-------------|----------|----------|----------|---|-----------|-----------|----------|
| BmDistLoadG | 3 | 1 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 2 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 3 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 4 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 5 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 6 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 7 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 8 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 9 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 10 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 11 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 12 | Y | 1 | -1.89E+01 | -1.89E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 39 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 40 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 3 | 41 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

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|-------------|----------|----------|---|----------|-----------|-----------|----------|
| BmDistLoadG | 3 | 42 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 43 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 44 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 45 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 46 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 47 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 48 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 49 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 3 | 50 | Y | 1 | -1.35E+01 | -1.35E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |

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/ NODE FORCES

/ SPTSX

| | | | | | |
|---------|---|----|----------|----------|----------|
| NdForce | 4 | 1 | 2.67E+01 | 0.00E+00 | 0.00E+00 |
| NdForce | 4 | 38 | 3.56E+00 | 0.00E+00 | 0.00E+00 |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

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|---|-------------|-------------------|----------|----------|---|----------|----------|----------|
| / | BEAM GLOBAL | DISTRIBUTED LOADS | | | | | | |
| / | SPTSX | | | | | | | |
| | BmDistLoadG | 4 | 13 | X | 2 | 5.24E+01 | 5.14E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 14 | X | 2 | 5.14E+01 | 5.05E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 15 | X | 2 | 5.05E+01 | 4.81E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 16 | X | 2 | 4.81E+01 | 4.58E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 17 | X | 2 | 4.58E+01 | 4.11E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 18 | X | 2 | 4.11E+01 | 3.64E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 19 | X | 2 | 3.64E+01 | 3.17E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 20 | X | 2 | 3.17E+01 | 2.70E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 21 | X | 2 | 2.70E+01 | 2.23E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 22 | X | 2 | 2.23E+01 | 1.76E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 23 | X | 2 | 1.76E+01 | 1.29E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 24 | X | 2 | 1.29E+01 | 1.10E+01 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| | BmDistLoadG | 4 | 25 | X | 2 | 1.10E+01 | 9.03E+00 | 0.00E+00 |
| | | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

/ NODE FORCES

/ SPTDX

| | | | | | |
|---------|---|----|-----------|----------|----------|
| NdForce | 5 | 13 | -2.67E+01 | 0.00E+00 | 0.00E+00 |
| NdForce | 5 | 50 | -3.56E+00 | 0.00E+00 | 0.00E+00 |

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTDX

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 5 | 26 | X | 2 | -5.14E+01 | -5.24E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 27 | X | 2 | -5.05E+01 | -5.14E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 28 | X | 2 | -4.81E+01 | -5.05E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 29 | X | 2 | -4.58E+01 | -4.81E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 30 | X | 2 | -4.11E+01 | -4.58E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 31 | X | 2 | -3.64E+01 | -4.11E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 32 | X | 2 | -3.17E+01 | -3.64E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 33 | X | 2 | -2.70E+01 | -3.17E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 34 | X | 2 | -2.23E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |
| BmDistLoadG | 5 | 35 | X | 2 | -1.76E+01 | -2.23E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | 0.00E+00 | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 5 | 36 | X | 2 | -1.29E+01 | -1.76E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 5 | 37 | X | 2 | -1.10E+01 | -1.29E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 5 | 38 | X | 2 | -9.03E+00 | -1.10E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |

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/ NODE FORCES

/ SPTW

| | | | | | |
|---------|---|----|----------|----------|----------|
| NdForce | 6 | 1 | 0.00E+00 | 9.15E+00 | 0.00E+00 |
| NdForce | 6 | 13 | 0.00E+00 | 9.15E+00 | 0.00E+00 |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTW



| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 6 | 1 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 2 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 3 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 4 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 5 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 6 | 6 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 7 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 8 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 9 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 10 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 11 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 12 | Y | 1 | 1.83E+01 | 1.83E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 13 | X | 2 | 1.33E+01 | 1.08E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 14 | X | 2 | 1.08E+01 | 8.30E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 15 | X | 2 | 8.30E+00 | 2.19E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 16 | X | 2 | 2.19E+00 | 0.00E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 17 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 18 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 19 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 20 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 6 | 21 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 6 | 22 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 23 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 24 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 25 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 26 | X | 2 | -1.08E+01 | -1.33E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 27 | X | 2 | -8.30E+00 | -1.08E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 28 | X | 2 | -2.19E+00 | -8.30E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 29 | X | 2 | 0.00E+00 | -2.19E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 30 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 31 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 32 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 33 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 34 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 35 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 36 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 6 | 37 | X | 2 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

BmDistLoadG 6 38 X 2 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ ACC_LM71

BmDistLoadG 7 39 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 40 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 41 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 42 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 43 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 44 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 45 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 46 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 47 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 48 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 49 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00
BmDistLoadG 7 50 Y 1 -5.65E+01 -5.65E+01 0.00E+00
0.00E+00 0.00E+00 0.00E+00

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ ACC_LM71_2

| | | | | | | | |
|-------------|----------|----------|---|----------|-----------|-----------|----------|
| BmDistLoadG | 23 | 39 | Y | 1 | -5.65E+01 | -5.65E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 40 | Y | 1 | -5.65E+01 | -5.65E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 41 | Y | 1 | -5.65E+01 | -5.65E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 42 | Y | 1 | -5.65E+01 | -5.65E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 43 | Y | 1 | -5.65E+01 | -5.65E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 44 | Y | 1 | -2.70E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 45 | Y | 1 | -2.70E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 46 | Y | 1 | -2.70E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 47 | Y | 1 | -2.70E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 48 | Y | 1 | -2.70E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 49 | Y | 1 | -2.70E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 23 | 50 | Y | 1 | -2.70E+01 | -2.70E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ ACC_SW2

| | | | | | | | |
|-------------|---|----|---|---|-----------|-----------|----------|
| BmDistLoadG | 8 | 39 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 40 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 41 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 42 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 43 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 44 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 45 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 46 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 47 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 48 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 49 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| BmDistLoadG | 8 | 50 | Y | 1 | -4.61E+01 | -4.61E+01 | 0.00E+00 |
| | | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

/ NODE FORCES

/ SPACCSX_LM71

| | | | | | |
|---------|---|----|----------|----------|----------|
| NdForce | 9 | 1 | 9.37E+00 | 0.00E+00 | 0.00E+00 |
| NdForce | 9 | 38 | 9.37E+00 | 0.00E+00 | 0.00E+00 |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCSX_LM71

| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 9 | 13 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 14 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 15 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 16 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 17 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 18 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 19 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 20 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 21 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 22 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 9 | 23 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 24 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 9 | 25 | X | 1 | 1.87E+01 | 1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

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/ NODE FORCES

/ SPACCDX_LM71

| | | | | | |
|---------|----|----|-----------|----------|----------|
| NdForce | 10 | 13 | -9.37E+00 | 0.00E+00 | 0.00E+00 |
| NdForce | 10 | 50 | -9.37E+00 | 0.00E+00 | 0.00E+00 |

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCDX_LM71

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 10 | 26 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 27 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 28 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 29 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 30 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

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|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 10 | 31 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 32 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 33 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 34 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 35 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 36 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 37 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 10 | 38 | X | 1 | -1.87E+01 | -1.87E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

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/ NODE FORCES

/ SPACCSX_SW2



| | | | | | |
|---------|----|----|----------|----------|----------|
| NdForce | 11 | 1 | 7.64E+00 | 0.00E+00 | 0.00E+00 |
| NdForce | 11 | 38 | 7.64E+00 | 0.00E+00 | 0.00E+00 |

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCSX_SW2

| | | | | |
|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 11 | 13 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 14 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 15 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 16 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 17 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 18 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 19 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 20 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 21 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 22 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 23 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 24 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 11 | 25 | X | 1 | 1.53E+01 | 1.53E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

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/ NODE FORCES

/ SPACCDX_SW2

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

| | | | | | |
|---------|----|----|-----------|----------|----------|
| NdForce | 12 | 13 | -7.64E+00 | 0.00E+00 | 0.00E+00 |
| NdForce | 12 | 50 | -7.64E+00 | 0.00E+00 | 0.00E+00 |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCDX_SW2

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 12 | 26 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 27 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 28 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 29 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 30 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 31 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 32 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 33 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 34 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 35 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 12 | 36 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|----------|---|-----------|-----------|----------|
| BmDistLoadG | 12 | 37 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 12 | 38 | X | 1 | -1.53E+01 | -1.53E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ AVV_LM71

| | | | | | | | |
|-------------|----------|----------|----------|---|----------|----------|----------|
| BmDistLoadG | 13 | 39 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 40 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 41 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 42 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 43 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 44 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 45 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 46 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 47 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 48 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 13 | 49 | X | 1 | 9.62E+00 | 9.62E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |

| | | | | | |
|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

BmDistLoadG 13 50 X 1 9.62E+00 9.62E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ FREN_SW2

BmDistLoadG 22 39 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 40 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 41 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 42 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 43 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 44 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 45 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00



BmDistLoadG 22 46 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 47 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 48 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 49 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

BmDistLoadG 22 50 X 1 9.27E+00 9.27E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SERP

| | | | | | | | |
|-------------|----------|----------|---|----------|----------|----------|----------|
| BmDistLoadG | 14 | 39 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 40 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 41 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 42 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 43 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 44 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 45 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 46 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 47 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 48 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 49 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 14 | 50 | X | 1 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica E12CLSL0900001 | A |

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/ NODE TEMPERATURES

/ TERM

| | | | | | |
|--------|----|----|-------|---|----------|
| NdTemp | 15 | 38 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 39 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 40 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 41 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 42 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 43 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 44 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 45 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 46 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 47 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 48 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 49 | Fixed | 0 | 1.50E+01 |
| NdTemp | 15 | 50 | Fixed | 0 | 1.50E+01 |



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/ NODE TEMPERATURES

/ RITIRO

| | | | | | |
|--------|----|----|-------|---|-----------|
| NdTemp | 16 | 38 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 39 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 40 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 41 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 42 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 43 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 44 | Fixed | 0 | -1.12E+01 |

| | | | | | |
|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--------|----|----|-------|---|-----------|
| NdTemp | 16 | 45 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 46 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 47 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 48 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 49 | Fixed | 0 | -1.12E+01 |
| NdTemp | 16 | 50 | Fixed | 0 | -1.12E+01 |

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ ACC_SOLINF

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 17 | 1 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 2 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 3 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 4 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 5 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 6 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 7 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 8 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 9 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 17 | 10 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|-------------|----------|----------|----------|---|-----------|-----------|----------|
| BmDistLoadG | 17 | 11 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 17 | 12 | Y | 1 | -2.86E+01 | -2.86E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SISMA_H

| | | | | | | | |
|-------------|----------|----------|----------|---|----------|----------|----------|
| BmDistLoadG | 18 | 13 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 14 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 15 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 16 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 17 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 18 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 19 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 20 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 21 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 22 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |
| BmDistLoadG | 18 | 23 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 18 | 24 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 25 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 26 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 27 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 28 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 29 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 30 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 31 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 32 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 33 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 34 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 35 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 36 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 37 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 38 | X | 1 | 7.38E+00 | 7.38E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 18 | 39 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 18 | 40 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 41 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 42 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 43 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 44 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 45 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 46 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 47 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 48 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 49 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 18 | 50 | X | 1 | 1.47E+01 | 1.47E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SISMA_V

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 19 | 39 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 19 | 40 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 19 | 41 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 42 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 43 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 44 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 45 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 46 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 47 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 48 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 49 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 19 | 50 | Y | 1 | -7.35E+00 | -7.35E+00 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSSX

| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 20 | 13 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 20 | 14 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |
| BmDistLoadG | 20 | 15 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | | | | | |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|---|---|----------|----------|----------|
| BmDistLoadG | 20 | 16 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 17 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 18 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 19 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 20 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 21 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 22 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 23 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 24 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 20 | 25 | X | 1 | 4.43E+01 | 4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |



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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSPDX

| | | | | | | | |
|-------------|----------|----------|---|---|-----------|-----------|----------|
| BmDistLoadG | 21 | 26 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 21 | 27 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |
| BmDistLoadG | 21 | 28 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | | | | 0.00E+00 |

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

| | | | | | | | |
|-------------|----------|----------|---|----------|-----------|-----------|----------|
| BmDistLoadG | 21 | 29 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 30 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 31 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 32 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 33 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 34 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 35 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 36 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 37 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |
| BmDistLoadG | 21 | 38 | X | 1 | -4.43E+01 | -4.43E+01 | 0.00E+00 |
| | 0.00E+00 | 0.00E+00 | | 0.00E+00 | | | |

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BEAM PROPERTIES

BeamProp 2 3355647 Fondazione

MaterialName Concrete: Compressive Strength $f_c = 32$ MPa - Modified

Modulus 3.36E+07



ShearMod 1.29E+07

| | | | | |
|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

Poisson 1.50E-01
UsePoisson TRUE
Density 2.50E+03
Expansion 1.00E-05
ThermalCond 1.37E+00
SpecificHeat 8.80E+02
InstantAlpha FALSE
Area 1.00E+00
MomentI11 8.33E-02
MomentI22 8.33E-02
MomentJ 1.00E-01
SectionType SolidRect
B 1.00E+00
D 1.00E+00
CT FALSE
TimeDependentMod Elastic
UseMomCurv FALSE
NonLinType Elasticplastic
Hardening Isotropic

BeamProp 3 16711680 piedritti
MaterialName Rck = 350 - Modified

Modulus 3.36E+07
ShearMod 1.29E+07
Poisson 1.50E-01
UsePoisson TRUE
Density 2.50E+03
Expansion 1.00E-05
ThermalCond 1.37E+00

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|---|---|-------------|----------------------------|---|
| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

SpecificHeat 8.80E+02
InstantAlpha FALSE
Area 1.00E+00
MomentI11 8.33E-02
MomentI22 8.33E-02
MomentJ 1.00E-01
SectionType SolidRect
B 1.00E+00
D 1.00E+00
CT FALSE
TimeDependentMod Elastic
UseMomCurv FALSE
NonLinType Elasticplastic
Hardening Isotropic

BeamProp 4 3407846 soletta
MaterialName Rck = 350 - Modified

Modulus 3.36E+07
ShearMod 1.29E+07
Poisson 1.50E-01
UsePoisson TRUE
Density 2.50E+03
Expansion 1.00E-05
ThermalCond 1.37E+00
SpecificHeat 8.80E+02
InstantAlpha FALSE
Area 1.00E+00
MomentI11 8.33E-02
MomentI22 8.33E-02

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MomentJ 1.00E-01
SectionType SolidRect
B 1.00E+00
D 1.00E+00
CT FALSE
TimeDependentMod Elastic
UseMomCurv FALSE
NonLinType Elasticplastic
Hardening Isotropic

/

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/ LINEAR STATIC SOLVER DATA



LoadFreedomSetLSA 2 OF
2 3 4 5 6 7 8 9
10 11 12 13 22 14 15 16
17 18 19 20 21

/

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/ LINEAR BUCKLING SOLVER DATA

BuckNumModes 4

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| | Progetto IN17 | Lotto 12 | Codifica E12CLSL0900001 | A |

BuckShift 0.00E+00

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/ LOAD INFLUENCE SOLVER DATA

LoadFreedomSetLIA 2 OF

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/ NATURAL FREQUENCY SOLVER DATA

FreqNumModes 4

FreqShift 0.00E+00



FreqIncludeNSMass 22

FreqModeParticipation FALSE

0.00E+00 0.00E+00 0.00E+00

0.00E+00 0.00E+00 0.00E+00

0.00E+00 0.00E+00 0.00E+00

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/ HEAT SOLVER DATA

LoadSetHeat 22

HeatTempLoadCase 1

HeatNonlinear FALSE

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/ GENERAL SOLVER DATA

SolverTempDependence None



SolverLoadCaseTempDependence 0

SolverActiveStage 0

SturmCheck FALSE

SolverFreedomCase 2

ModalLoadType BaseAcceleration

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|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

ModalNodeReactType Element

DampingType Rayleigh

RayleighFactors Frequency

1.00E+00 1.00E+01 1.00E+00 1.00E+01 1.00E-02 1.00E-02

NonLinearGeometry TRUE

NonLinearMaterial TRUE

IncludeCreep FALSE

SolverDefaultsGeneral

SolDefMatrixZeroDiag 1.00E-20

SolDefConjGradTol 1.00E-05



SolDefMaxConjGradIter5000

SolDefMaxNumWarnings 10

SolDefWindowState 3

SolDefReducedLogFile TRUE

SolDefDoResidualsCheck FALSE

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

SolDefSuppressAllSingularities FALSE

SolverDefaultsElements

SolDefMinDimension 1.00E-09

SolDefMinInternalAngle 1.50E+01

SolDefZeroPointForce 1.00E-06

SolDefZeroDiagonal 1.00E-20

SolDefBeamMass Lumped

SolDefPlateMass Lumped

SolDefBrickMass Lumped

SolDefBeamLoads Consistent

SolDefPlateLoads Consistent

SolDefBeamSlices 5



SolDefIncludeLinkReactions TRUE

SolverDefaultsDrilling

SolDefZeroTrans 1.00E-08

SolDefZeroRot 1.00E-06

SolDrillStiffMult 1.00E-04

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SolDrillZeroEig 1.00E-06
SolDefMaxNormalsAngle 5.00E+00
SolDefForceDrillingCheck FALSE

SolverDefaultsIteration
SolDefZeroDisp1.00E-08
SolDefDispNormTol 1.00E-04

SolDefResidualsNormTol 1.00E-03

SolDefNonlinIterLimit 20
SolDefAddIterations TRUE
SolDefMaxUpdateInterval 5

SolDefMaxDispChange 1.00E+00

SolDefMaxResidualChange 1.00E-01



SolDefFormStiffnessMatrix 0

SolDefFormHeatStiffnessMatrix 2

SolDefHeatConvergenceTol 1.00E-05

SolDefHeatRelaxationFactor 6.67E-01

SolDefNonlinHeatIterLimit 20

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SolverDefaultsSubSteps

SolDefSubStepping 0

SolDefMinLoadReductionFactor 1.00E-01

SolDefMaxRot 3.00E+01

SolDefMaxDispRatio 1.00E-01

SolDefMinArcLength 1.00E-03

SolDefMaxFibreInc 1.00E-02

SolDefSaveSubIncrements FALSE

SolDefDynamicAutoSteppingMode 0

SolDefMinTimeStep 1.00E-03

SolDefConsiderTableSteps FALSE

SolDefSingleShotRestart FALSE



SolDefAutoAssignPathDiv FALSE

SolverDefaultsNonlinear

SolDefIncludeKG TRUE

SolDefAutoScaleKg TRUE

SolDefIgnoreCompressiveBeamKg FALSE

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SolDefBeamKgType Simplified

SolDefFiniteStrainDefinition Nominal

SolDefBeamLength Initial

SolDefRatioMNL 5.00E-01

SolDefZeroContactFactor 1.00E-06

SolDefSlidingFriction 1.00E-15

SolDefStickingFriction 1.00E+00

SolDefFrictionCutoffStrain 1.00E-05

SolDefScaleSupports TRUE

SolverDefaultsCreep

SolDefTimeStepParam 5.00E-01

SolDefMinViscoUnits 3

SolDefMaxViscoUnits 6

SolDefCurveFitTime 1.00E+04

SolDefCurveFitTimeUnit d

SolDefSpacingBias 5.00E-01

SolDefDoInstantNTA TRUE

SolverDefaultsEigenvalue

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SolDefZeroFreq 1.00E-06

SolDefZeroBuckEigenvalue 1.00E-10

SolDefExpandWorkingSetBy 6

SolDefEigIterLimit 20

SolDefEigIterTol 1.00E-05

SolDefEigAutoShift FALSE

SolverDefaultsDynamics

SolDefWilsonTheta 1.37E+00

SolDefNewmarkBeta 5.00E-01

SolDefTransientMethod Newmark

SolDefExcludeMassComponents



SolDefIncludeRotMass TRUE

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/ RESULT OPTIONS

ResultOptions

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|---|---|-------------|----------------------------|---|
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ResOptsRotationUnit Degrees

ResOptsHRADisplacement Total

ResOptsHRAVelocity Total

ResOptsHRAAcceleration Relative

ResOptsBeamForceMoment Principal

ResOptsStageDisplacement BirthStage

15.2 OUTPUT

Model: Input_SL09_v2.3

Result type: Beam force/moment



Freedom case: 1: Freedom

Result cases: All

Groups: All

Properties: All

| | Shear Force 1 (kN) | Bending Moment 1 (kN.m) | Shear Force 2 (kN) | Bending Moment 2 (kN.m) | Axial Force (kN) | Torque (kN.m) |
|--------------------------------|-----------------------|----------------------------|-----------------------|----------------------------|---------------------|------------------|
| Beam 1: End 1: 1: PP | 0.0000 | 0.0000 | -55.6267 | 384.1115 | -172.4289 | 0.0000 |
| Beam 1: End 1: 2: PERM | 0.0000 | 0.0000 | 4.5287 | 140.0864 | -65.2880 | 0.0000 |
| Beam 1: End 1: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 17.7606 | -77.7595 | 0.0000 |
| Beam 1: End 1: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | 2.1417 | 3.4108 | 0.0000 |
| Beam 1: End 1: 5: SPTW | 0.0000 | 0.0000 | -42.1106 | -115.2968 | 41.9610 | 0.0000 |
| Beam 1: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 306.4724 | -109.0719 | 0.0000 |
| Beam 1: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 249.5636 | -88.8183 | 0.0000 |
| Beam 1: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 14.1480 | -54.3179 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
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| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 1: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | 2.1498 | 3.8079 | 0.0000 |
| Beam 1: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 11.5764 | -44.4136 | 0.0000 |
| Beam 1: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | 1.7581 | 3.1136 | 0.0000 |
| Beam 1: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -3.5994 | -10.9666 | 0.0000 |
| Beam 1: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -3.4684 | -10.5676 | 0.0000 |
| Beam 1: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 1: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -107.0671 | 38.8522 | 0.0000 |
| Beam 1: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 79.9434 | -29.0096 | 0.0000 |
| Beam 1: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 88.3512 | -53.1424 | 0.0000 |
| Beam 1: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -0.4449 | -26.6541 | 0.0000 |
| Beam 1: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 28.9765 | -10.3126 | 0.0000 |
| Beam 1: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 18.4281 | -56.5439 | 0.0000 |
| Beam 1: End 1: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | 2.4017 | 3.9639 | 0.0000 |
| Beam 1: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -222.0643 | 1092.9662 | -615.9153 | 0.0000 |
| Beam 1: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -188.2642 | 1367.2314 | -668.5781 | 0.0000 |
| Beam 1: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -241.9397 | 1032.0977 | -522.4681 | 0.0000 |
| Beam 1: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -236.0304 | 1058.8285 | -628.4448 | 0.0000 |
| Beam 1: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -185.6888 | 1162.0655 | -688.8962 | 0.0000 |
| Beam 1: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -125.4915 | 620.4122 | -453.1953 | 0.0000 |
| Beam 1: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -242.8441 | 1155.1889 | -663.4118 | 0.0000 |
| Beam 1: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -106.0943 | 415.1804 | -361.3950 | 0.0000 |
| Beam 1: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -262.0600 | 1063.6193 | -612.3879 | 0.0000 |
| Beam 1: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -293.6963 | 1233.4760 | -569.6299 | 0.0000 |
| Beam 1: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -284.2218 | 1311.0108 | -661.4713 | 0.0000 |
| Beam 1: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -261.5097 | 989.8096 | -544.9148 | 0.0000 |
| Beam 1: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -198.1791 | 1006.9094 | -571.6079 | 0.0000 |
| Beam 1: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -163.4402 | 1284.9035 | -638.6319 | 0.0000 |
| Beam 1: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -217.1157 | 949.7698 | -492.5219 | 0.0000 |
| Beam 1: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -212.1453 | 972.7717 | -584.1374 | 0.0000 |
| Beam 1: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -161.8036 | 1076.0087 | -644.5887 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 1: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -126.4303 | 616.6834 | -438.8340 | 0.0000 |
| Beam 1: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -218.9589 | 1069.1321 | -619.1043 | 0.0000 |
| Beam 1: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -107.0331 | 411.4516 | -347.0337 | 0.0000 |
| Beam 1: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -237.2267 | 977.3727 | -568.6590 | 0.0000 |
| Beam 1: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -266.1180 | 1150.3903 | -541.2690 | 0.0000 |
| Beam 1: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -259.2007 | 1225.5099 | -620.6147 | 0.0000 |
| Beam 1: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -236.4886 | 904.3087 | -504.0581 | 0.0000 |
| Beam 1: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -249.5344 | 1061.5330 | -620.2048 | 0.0000 |
| Beam 1: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -224.7011 | 975.2864 | -576.4759 | 0.0000 |
| Beam 1: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -108.3737 | 636.3343 | -379.1955 | 0.0000 |
| Beam 1: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -102.9437 | 618.9484 | -373.0079 | 0.0000 |
| Beam 1: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -144.3486 | 653.2506 | -386.3952 | 0.0000 |
| Beam 1: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -138.9186 | 635.8647 | -380.2076 | 0.0000 |
| Beam 1: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -125.8281 | 655.2481 | -370.5312 | 0.0000 |
| Beam 1: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -107.7281 | 597.2951 | -349.9060 | 0.0000 |
| Beam 1: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -136.6206 | 660.3230 | -372.6911 | 0.0000 |
| Beam 1: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -118.5206 | 602.3700 | -352.0659 | 0.0000 |
| Beam 1: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -105.0792 | 624.4644 | -373.0841 | 0.0000 |
| Beam 1: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -99.6492 | 607.0785 | -366.8965 | 0.0000 |
| Beam 1: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -141.0541 | 641.3807 | -380.2838 | 0.0000 |

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| Beam 1: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -135.6241 | 623.9948 | -374.0962 |
| Beam 1: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -122.5336 | 643.3782 | -364.4198 |
| Beam 1: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -104.4336 | 585.4252 | -343.7946 |
| Beam 1: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -133.3261 | 648.4531 | -366.5797 |
| Beam 1: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -115.2261 | 590.5001 | -345.9545 |
| Beam 1: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -159.1614 | 824.8203 | -454.8220 |
| Beam 1: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -121.3209 | 690.5808 | -425.7459 |
| Beam 1: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -129.3396 | 896.8565 | -505.1066 |
| Beam 1: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -143.9407 | 776.8179 | -431.5704 |
| Beam 1: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -107.1463 | 642.7879 | -401.8559 |
| Beam 1: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -116.1616 | 849.3769 | -480.6611 |
| Beam 1: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -147.8405 | 882.1825 | -505.2855 |
| Beam 1: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -130.7141 | 822.7021 | -475.1276 |
| Beam 1: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -97.2648 | 428.8035 | -270.1046 |
| Beam 1: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -130.1187 | 807.6462 | -467.8251 |
| Beam 1: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -116.4175 | 760.0618 | -443.6988 |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 1: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 293.6963 | 1367.2314 | 688.8962 | 0.0000 |
| Beam 1: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 293.6963 | 1367.2314 | 688.8962 | 0.0000 |
| Beam 1: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 144.3486 | 660.3230 | 386.3952 | 0.0000 |
| Beam 1: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 159.1614 | 896.8565 | 505.2855 | 0.0000 |
| Beam 1: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 130.1187 | 807.6462 | 467.8251 | 0.0000 |
| Beam 1: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 97.2648 | 428.8035 | 270.1046 | 0.0000 |
| Beam 1: End 2: 1: PP | 0.0000 | 0.0000 | -61.7580 | 369.4384 | -172.4289 | 0.0000 |
| Beam 1: End 2: 2: PERM | 0.0000 | 0.0000 | -0.1963 | 140.6280 | -65.2880 | 0.0000 |
| Beam 1: End 2: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 18.3124 | -77.7595 | 0.0000 |
| Beam 1: End 2: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | 0.5758 | 3.4108 | 0.0000 |
| Beam 1: End 2: 5: SPTW | 0.0000 | 0.0000 | -34.4106 | -124.8619 | 41.9610 | 0.0000 |
| Beam 1: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 282.5429 | -109.0719 | 0.0000 |
| Beam 1: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 230.0775 | -88.8183 | 0.0000 |
| Beam 1: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 15.0336 | -54.3179 | 0.0000 |
| Beam 1: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | 0.4416 | 3.8079 | 0.0000 |
| Beam 1: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 12.3002 | -44.4136 | 0.0000 |
| Beam 1: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | 0.3613 | 3.1136 | 0.0000 |
| Beam 1: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 0.8937 | -10.9666 | 0.0000 |
| Beam 1: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 0.8612 | -10.5676 | 0.0000 |
| Beam 1: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 1: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -105.1744 | 38.8522 | 0.0000 |
| Beam 1: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 78.5302 | -29.0096 | 0.0000 |
| Beam 1: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 38.1378 | 98.7794 | -53.1424 | 0.0000 |
| Beam 1: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 5.3315 | -26.6541 | 0.0000 |
| Beam 1: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 26.7140 | -10.3126 | 0.0000 |
| Beam 1: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 19.1821 | -56.5439 | 0.0000 |

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|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|---|--------|--------|-----------|-----------|-----------|--------|--|
| Beam 1: End 2: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | 0.5964 | 3.9639 | 0.0000 | |
| Beam 1: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -229.7289 | 1036.4920 | -615.9153 | 0.0000 | |
| Beam 1: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -204.2229 | 1318.1705 | -668.5781 | 0.0000 | |
| Beam 1: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -246.9094 | 970.9916 | -522.4681 | 0.0000 | |
| Beam 1: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -241.0001 | 999.1997 | -628.4448 | 0.0000 | |
| Beam 1: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -198.9525 | 1113.9853 | -688.8962 | 0.0000 | |
| Beam 1: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -130.4612 | 588.4181 | -453.1953 | 0.0000 | |
| Beam 1: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -247.8138 | 1093.8566 | -663.4118 | 0.0000 | |
| Beam 1: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -106.5555 | 388.5992 | -361.3950 | 0.0000 | |
| Beam 1: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -267.0297 | 997.4831 | -612.3879 | 0.0000 | |
| Beam 1: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -298.6660 | 1159.4307 | -569.6299 | 0.0000 | |
| Beam 1: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -289.1915 | 1239.3341 | -661.4713 | 0.0000 | |
| Beam 1: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -266.4794 | 923.8109 | -544.9148 | 0.0000 | |
| Beam 1: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -205.8438 | 956.4065 | -571.6079 | 0.0000 | |
| Beam 1: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -179.3989 | 1242.0486 | -638.6319 | 0.0000 | |
| Beam 1: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -222.0854 | 894.8696 | -492.5219 | 0.0000 | |
| Beam 1: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -217.1149 | 919.1142 | -584.1374 | 0.0000 | |
| Beam 1: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -175.0673 | 1033.8998 | -644.5887 | 0.0000 | |
| Beam 1: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -131.4000 | 584.4546 | -438.8340 | 0.0000 | |
| Beam 1: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -223.9286 | 1013.7712 | -619.1043 | 0.0000 | |
| Beam 1: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -107.4943 | 384.6356 | -347.0337 | 0.0000 | |
| Beam 1: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -242.1964 | 917.4448 | -568.6590 | 0.0000 | |
| Beam 1: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -271.0877 | 1083.2396 | -541.2690 | 0.0000 | |
| Beam 1: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -264.1704 | 1160.0885 | -620.6147 | 0.0000 | |
| Beam 1: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -241.4583 | 844.5653 | -504.0581 | 0.0000 | |
| Beam 1: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -254.5041 | 998.5282 | -620.2048 | 0.0000 | |
| Beam 1: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -229.6708 | 918.4899 | -576.4759 | 0.0000 | |
| Beam 1: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -111.5300 | 608.8463 | -379.1955 | 0.0000 | |
| Beam 1: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -106.1000 | 592.8179 | -373.0079 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|----------|-----------|
| Beam 1: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | -147.5048 | 616.7689 | -386.3952 |
| Beam 1: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -142.0748 | 600.7405 | -380.2076 |
| Beam 1: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -128.9844 | 623.3966 | -370.5312 |
| Beam 1: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -110.8844 | 569.9685 | -349.9060 |
| Beam 1: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -139.7768 | 625.7734 | -372.6911 |
| Beam 1: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -121.6768 | 572.3453 | -352.0659 |
| Beam 1: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -108.2355 | 597.8000 | -373.0841 |
| Beam 1: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -102.8055 | 581.7716 | -366.8965 |
| Beam 1: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -144.2103 | 605.7226 | -380.2838 |
| Beam 1: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -138.7803 | 589.6942 | -374.0962 |
| Beam 1: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -125.6899 | 612.3503 | -364.4198 |
| Beam 1: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -107.5899 | 558.9223 | -343.7946 |
| Beam 1: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -136.4823 | 614.7271 | -366.5797 |
| Beam 1: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -118.3823 | 561.2990 | -345.9545 |
| Beam 1: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -168.0377 | 783.9204 | -454.8220 |
| Beam 1: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -130.1971 | 659.1410 | -425.7459 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|
| Beam 1: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -138.2158 | 863.4121 | -505.1066 |
| Beam 1: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -152.8169 | 739.7232 | -431.5704 |
| Beam 1: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -116.0226 | 614.8918 | -401.8559 |
| Beam 1: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -125.0378 | 819.2270 | -480.6611 |
| Beam 1: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -156.7168 | 844.1128 | -505.2855 |
| Beam 1: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -139.5903 | 788.9140 | -475.1276 |
| Beam 1: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -100.4211 | 404.0927 | -270.1046 |
| Beam 1: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -138.9949 | 774.0070 | -467.8251 |
| Beam 1: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -125.2938 | 729.8479 | -443.6988 |
| Beam 1: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 298.6660 | 1318.1705 | 688.8962 |
| Beam 1: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 298.6660 | 1318.1705 | 688.8962 |
| Beam 1: End 2: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 147.5048 | 625.7734 | 386.3952 |
| Beam 1: End 2: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 168.0377 | 863.4121 | 505.2855 |
| Beam 1: End 2: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 138.9949 | 774.0070 | 467.8251 |
| Beam 1: End 2: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 100.4211 | 404.0927 | 270.1046 |
| Beam 2: End 1: 1: PP | 0.0000 | 0.0000 | -61.7580 | 369.4384 | -172.4289 |
| Beam 2: End 1: 2: PERM | 0.0000 | 0.0000 | -0.1963 | 140.6280 | -65.2880 |
| Beam 2: End 1: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 18.3124 | -77.7595 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|-----------|-----------|--------|--|
| Beam 2: End 1: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | 0.5758 | 3.4108 | 0.0000 | |
| Beam 2: End 1: 5: SPTW | 0.0000 | 0.0000 | -34.4106 | -124.8619 | 41.9610 | 0.0000 | |
| Beam 2: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 282.5429 | -109.0719 | 0.0000 | |
| Beam 2: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 230.0775 | -88.8183 | 0.0000 | |
| Beam 2: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 15.0336 | -54.3179 | 0.0000 | |
| Beam 2: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | 0.4416 | 3.8079 | 0.0000 | |
| Beam 2: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 12.3002 | -44.4136 | 0.0000 | |
| Beam 2: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | 0.3613 | 3.1136 | 0.0000 | |
| Beam 2: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 0.8937 | -10.9666 | 0.0000 | |
| Beam 2: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 0.8612 | -10.5676 | 0.0000 | |
| Beam 2: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 2: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -105.1744 | 38.8522 | 0.0000 | |
| Beam 2: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 78.5302 | -29.0096 | 0.0000 | |
| Beam 2: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 38.1378 | 98.7794 | -53.1424 | 0.0000 | |
| Beam 2: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 5.3315 | -26.6541 | 0.0000 | |
| Beam 2: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 26.7140 | -10.3126 | 0.0000 | |
| Beam 2: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 19.1821 | -56.5439 | 0.0000 | |
| Beam 2: End 1: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | 0.5964 | 3.9639 | 0.0000 | |
| Beam 2: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -229.7289 | 1036.4920 | -615.9153 | 0.0000 | |
| Beam 2: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -204.2229 | 1318.1705 | -668.5781 | 0.0000 | |
| Beam 2: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -246.9094 | 970.9916 | -522.4681 | 0.0000 | |
| Beam 2: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -241.0001 | 999.1997 | -628.4448 | 0.0000 | |
| Beam 2: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -198.9525 | 1113.9853 | -688.8962 | 0.0000 | |
| Beam 2: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -130.4612 | 588.4181 | -453.1953 | 0.0000 | |
| Beam 2: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -247.8138 | 1093.8566 | -663.4118 | 0.0000 | |
| Beam 2: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -106.5555 | 388.5992 | -361.3950 | 0.0000 | |
| Beam 2: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -267.0297 | 997.4831 | -612.3879 | 0.0000 | |
| Beam 2: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -298.6660 | 1159.4307 | -569.6299 | 0.0000 | |
| Beam 2: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -289.1915 | 1239.3341 | -661.4713 | 0.0000 | |
| Beam 2: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -266.4794 | 923.8109 | -544.9148 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 2: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -205.8438 | 956.4065 | -571.6079 | 0.0000 |
| Beam 2: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -179.3989 | 1242.0486 | -638.6319 | 0.0000 |
| Beam 2: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -222.0854 | 894.8696 | -492.5219 | 0.0000 |
| Beam 2: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -217.1149 | 919.1142 | -584.1374 | 0.0000 |
| Beam 2: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -175.0673 | 1033.8998 | -644.5887 | 0.0000 |
| Beam 2: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -131.4000 | 584.4546 | -438.8340 | 0.0000 |
| Beam 2: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -223.9286 | 1013.7712 | -619.1043 | 0.0000 |
| Beam 2: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -107.4943 | 384.6356 | -347.0337 | 0.0000 |
| Beam 2: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -242.1964 | 917.4448 | -568.6590 | 0.0000 |
| Beam 2: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -271.0877 | 1083.2396 | -541.2690 | 0.0000 |
| Beam 2: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -264.1704 | 1160.0885 | -620.6147 | 0.0000 |
| Beam 2: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -241.4583 | 844.5653 | -504.0581 | 0.0000 |
| Beam 2: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -254.5041 | 998.5282 | -620.2048 | 0.0000 |
| Beam 2: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -229.6708 | 918.4899 | -576.4759 | 0.0000 |
| Beam 2: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -111.5300 | 608.8463 | -379.1955 | 0.0000 |
| Beam 2: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -106.1000 | 592.8179 | -373.0079 | 0.0000 |
| Beam 2: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -147.5048 | 616.7689 | -386.3952 | 0.0000 |
| Beam 2: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -142.0748 | 600.7405 | -380.2076 | 0.0000 |
| Beam 2: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -128.9844 | 623.3966 | -370.5312 | 0.0000 |
| Beam 2: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -110.8844 | 569.9685 | -349.9060 | 0.0000 |
| Beam 2: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -139.7768 | 625.7734 | -372.6911 | 0.0000 |
| Beam 2: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -121.6768 | 572.3453 | -352.0659 | 0.0000 |
| Beam 2: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -108.2355 | 597.8000 | -373.0841 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|----------|-----------|
| Beam 2: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -102.8055 | 581.7716 | -366.8965 |
| 0.0000 | | | | | |
| Beam 2: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -144.2103 | 605.7226 | -380.2838 |
| 0.0000 | | | | | |
| Beam 2: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -138.7803 | 589.6942 | -374.0962 |
| 0.0000 | | | | | |
| Beam 2: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -125.6899 | 612.3503 | -364.4198 |
| 0.0000 | | | | | |
| Beam 2: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -107.5899 | 558.9223 | -343.7946 |
| 0.0000 | | | | | |
| Beam 2: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -136.4823 | 614.7271 | -366.5797 |
| 0.0000 | | | | | |
| Beam 2: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -118.3823 | 561.2990 | -345.9545 |
| 0.0000 | | | | | |
| Beam 2: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -168.0377 | 783.9204 | -454.8220 |
| 0.0000 | | | | | |
| Beam 2: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -130.1971 | 659.1410 | -425.7459 |
| 0.0000 | | | | | |
| Beam 2: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -138.2158 | 863.4121 | -505.1066 |
| 0.0000 | | | | | |
| Beam 2: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -152.8169 | 739.7232 | -431.5704 |
| 0.0000 | | | | | |
| Beam 2: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -116.0226 | 614.8918 | -401.8559 |
| 0.0000 | | | | | |
| Beam 2: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -125.0378 | 819.2270 | -480.6611 |
| 0.0000 | | | | | |
| Beam 2: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -156.7168 | 844.1128 | -505.2855 |
| 0.0000 | | | | | |
| Beam 2: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -139.5903 | 788.9140 | -475.1276 |
| 0.0000 | | | | | |
| Beam 2: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -100.4211 | 404.0927 | -270.1046 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 2: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -138.9949 | 774.0070 | -467.8251 | |
| 0.0000 | | | | | | |
| Beam 2: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -125.2938 | 729.8479 | -443.6988 | |
| 0.0000 | | | | | | |
| Beam 2: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 298.6660 | 1318.1705 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 2: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 298.6660 | 1318.1705 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 2: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 147.5048 | 625.7734 | 386.3952 | 0.0000 |
| Beam 2: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 168.0377 | 863.4121 | 505.2855 | |
| 0.0000 | | | | | | |
| Beam 2: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 138.9949 | 774.0070 | 467.8251 | |
| 0.0000 | | | | | | |
| Beam 2: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 100.4211 | 404.0927 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 2: End 2: 1: PP | 0.0000 | 0.0000 | -67.8892 | 353.2325 | -172.4289 | 0.0000 |
| Beam 2: End 2: 2: PERM | 0.0000 | 0.0000 | -4.9213 | 139.9883 | -65.2880 | 0.0000 |
| Beam 2: End 2: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 18.8642 | -77.7595 | 0.0000 |
| Beam 2: End 2: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -0.9900 | 3.4108 | 0.0000 |
| Beam 2: End 2: 5: SPTW | 0.0000 | 0.0000 | -26.7106 | -132.5021 | 41.9610 | 0.0000 |
| Beam 2: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 258.6134 | -109.0719 | 0.0000 |
| Beam 2: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 210.5915 | -88.8183 | 0.0000 |
| Beam 2: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 15.9193 | -54.3179 | 0.0000 |
| Beam 2: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -1.2666 | 3.8079 | 0.0000 |
| Beam 2: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 13.0240 | -44.4136 | 0.0000 |
| Beam 2: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -1.0354 | 3.1136 | 0.0000 |
| Beam 2: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 5.3868 | -10.9666 | 0.0000 |
| Beam 2: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 5.1908 | -10.5676 | 0.0000 |
| Beam 2: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 2: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -103.2817 | 38.8522 | 0.0000 |
| Beam 2: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 77.1170 | -29.0096 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 2: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 30.9878 | 107.4201 | -53.1424 | 0.0000 |
| Beam 2: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 11.1080 | -26.6541 | 0.0000 |
| Beam 2: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 24.4515 | -10.3126 | 0.0000 |
| Beam 2: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 19.9361 | -56.5439 | 0.0000 |
| Beam 2: End 2: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | -1.2089 | 3.9639 | 0.0000 |
| Beam 2: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -237.3936 | 978.1017 | -615.9153 | 0.0000 |
| Beam 2: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -220.1816 | 1265.1200 | -668.5781 | 0.0000 |
| Beam 2: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -251.8791 | 908.6430 | -522.4681 | 0.0000 |
| Beam 2: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -245.9698 | 938.3284 | -628.4448 | 0.0000 |
| Beam 2: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -212.2162 | 1062.5892 | -688.8962 | 0.0000 |
| Beam 2: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -135.4309 | 555.1816 | -453.1953 | 0.0000 |
| Beam 2: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -252.7835 | 1031.2820 | -663.4118 | 0.0000 |
| Beam 2: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -107.0168 | 361.9026 | -361.3950 | 0.0000 |
| Beam 2: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -271.9994 | 930.1045 | -612.3879 | 0.0000 |
| Beam 2: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -303.6357 | 1084.1430 | -569.6299 | 0.0000 |
| Beam 2: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -294.1612 | 1166.4150 | -661.4713 | 0.0000 |
| Beam 2: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -271.4491 | 856.5699 | -544.9148 | 0.0000 |
| Beam 2: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -213.5084 | 903.9875 | -571.6079 | 0.0000 |
| Beam 2: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -195.3576 | 1195.2040 | -638.6319 | 0.0000 |
| Beam 2: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -227.0551 | 838.7270 | -492.5219 | 0.0000 |
| Beam 2: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -222.0846 | 864.2143 | -584.1374 | 0.0000 |
| Beam 2: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -188.3310 | 988.4751 | -644.5887 | 0.0000 |
| Beam 2: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -136.3696 | 550.9834 | -438.8340 | 0.0000 |
| Beam 2: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -228.8983 | 957.1678 | -619.1043 | 0.0000 |
| Beam 2: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -107.9556 | 357.7044 | -347.0337 | 0.0000 |
| Beam 2: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -247.1661 | 856.2745 | -568.6590 | 0.0000 |
| Beam 2: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -276.0574 | 1014.8465 | -541.2690 | 0.0000 |
| Beam 2: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -269.1401 | 1093.4247 | -620.6147 | 0.0000 |
| Beam 2: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -246.4280 | 783.5795 | -504.0581 | 0.0000 |
| Beam 2: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -259.4738 | 934.2809 | -620.2048 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|----------|-----------|--------|
| Beam 2: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -234.6405 | 860.4509 | -576.4759 | 0.0000 |
| Beam 2: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -114.6862 | 580.5693 | -379.1955 | 0.0000 |
| Beam 2: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -109.2562 | 565.8984 | -373.0079 | 0.0000 |
| Beam 2: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -150.6611 | 579.4982 | -386.3952 | 0.0000 |
| Beam 2: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -145.2311 | 564.8272 | -380.2076 | 0.0000 |
| Beam 2: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -132.1406 | 590.7560 | -370.5312 | 0.0000 |
| Beam 2: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -114.0406 | 541.8529 | -349.9060 | 0.0000 |
| Beam 2: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -142.9331 | 590.4346 | -372.6911 | 0.0000 |
| Beam 2: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -124.8331 | 541.5316 | -352.0659 | 0.0000 |
| Beam 2: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -111.3917 | 570.3466 | -373.0841 | 0.0000 |
| Beam 2: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -105.9617 | 555.6757 | -366.8965 | 0.0000 |
| Beam 2: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -147.3666 | 569.2755 | -380.2838 | 0.0000 |
| Beam 2: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -141.9366 | 554.6046 | -374.0962 | 0.0000 |
| Beam 2: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -128.8461 | 580.5333 | -364.4198 | 0.0000 |
| Beam 2: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -110.7461 | 531.6303 | -343.7946 | 0.0000 |
| Beam 2: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -139.6386 | 580.2120 | -366.5797 | 0.0000 |
| Beam 2: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -121.5386 | 531.3089 | -345.9545 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|
| Beam 2: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -176.9139 | 740.8014 | -454.8220 |
| 0.0000 | | | | | |
| Beam 2: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -139.0734 | 625.4822 | -425.7459 |
| 0.0000 | | | | | |
| Beam 2: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -147.0921 | 827.7486 | -505.1066 |
| 0.0000 | | | | | |
| Beam 2: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -161.6932 | 700.4094 | -431.5704 |
| 0.0000 | | | | | |
| Beam 2: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -124.8988 | 584.7766 | -401.8559 |
| 0.0000 | | | | | |
| Beam 2: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -133.9141 | 786.8580 | -480.6611 |
| 0.0000 | | | | | |
| Beam 2: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -165.5930 | 803.8241 | -505.2855 |
| 0.0000 | | | | | |
| Beam 2: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -148.4666 | 752.9069 | -475.1276 |
| 0.0000 | | | | | |
| Beam 2: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -103.5773 | 378.5929 | -270.1046 |
| 0.0000 | | | | | |
| Beam 2: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -147.8712 | 738.1487 | -467.8251 |
| 0.0000 | | | | | |
| Beam 2: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -134.1700 | 697.4149 | -443.6988 |
| 0.0000 | | | | | |
| Beam 2: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 303.6357 | 1265.1200 | 688.8962 |
| 0.0000 | | | | | |
| Beam 2: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 303.6357 | 1265.1200 | 688.8962 |
| 0.0000 | | | | | |
| Beam 2: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 150.6611 | 590.7560 | 386.3952 |
| 0.0000 | | | | | |
| Beam 2: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 176.9139 | 827.7486 | 505.2855 |
| 0.0000 | | | | | |
| Beam 2: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 147.8712 | 738.1487 | 467.8251 |
| 0.0000 | | | | | |
| Beam 2: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 103.5773 | 378.5929 | 270.1046 |
| 0.0000 | | | | | |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|-----------|-----------|--------|--|
| Beam 3: End 1: 1: PP | 0.0000 | 0.0000 | -67.8892 | 353.2325 | -172.4289 | 0.0000 | |
| Beam 3: End 1: 2: PERM | 0.0000 | 0.0000 | -4.9213 | 139.9883 | -65.2880 | 0.0000 | |
| Beam 3: End 1: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 18.8642 | -77.7595 | 0.0000 | |
| Beam 3: End 1: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -0.9900 | 3.4108 | 0.0000 | |
| Beam 3: End 1: 5: SPTW | 0.0000 | 0.0000 | -26.7106 | -132.5021 | 41.9610 | 0.0000 | |
| Beam 3: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 258.6134 | -109.0719 | 0.0000 | |
| Beam 3: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 210.5915 | -88.8183 | 0.0000 | |
| Beam 3: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 15.9193 | -54.3179 | 0.0000 | |
| Beam 3: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -1.2666 | 3.8079 | 0.0000 | |
| Beam 3: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 13.0240 | -44.4136 | 0.0000 | |
| Beam 3: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -1.0354 | 3.1136 | 0.0000 | |
| Beam 3: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 5.3868 | -10.9666 | 0.0000 | |
| Beam 3: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 5.1908 | -10.5676 | 0.0000 | |
| Beam 3: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 3: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -103.2817 | 38.8522 | 0.0000 | |
| Beam 3: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 77.1170 | -29.0096 | 0.0000 | |
| Beam 3: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 30.9878 | 107.4201 | -53.1424 | 0.0000 | |
| Beam 3: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 11.1080 | -26.6541 | 0.0000 | |
| Beam 3: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 24.4515 | -10.3126 | 0.0000 | |
| Beam 3: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 19.9361 | -56.5439 | 0.0000 | |
| Beam 3: End 1: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | -1.2089 | 3.9639 | 0.0000 | |
| Beam 3: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -237.3936 | 978.1017 | -615.9153 | 0.0000 | |
| Beam 3: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -220.1816 | 1265.1200 | -668.5781 | 0.0000 | |
| Beam 3: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -251.8791 | 908.6430 | -522.4681 | 0.0000 | |
| Beam 3: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -245.9698 | 938.3284 | -628.4448 | 0.0000 | |
| Beam 3: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -212.2162 | 1062.5892 | -688.8962 | 0.0000 | |
| Beam 3: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -135.4309 | 555.1816 | -453.1953 | 0.0000 | |
| Beam 3: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -252.7835 | 1031.2820 | -663.4118 | 0.0000 | |
| Beam 3: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -107.0168 | 361.9026 | -361.3950 | 0.0000 | |
| Beam 3: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -271.9994 | 930.1045 | -612.3879 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 3: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -303.6357 | 1084.1430 | -569.6299 | 0.0000 |
| Beam 3: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -294.1612 | 1166.4150 | -661.4713 | 0.0000 |
| Beam 3: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -271.4491 | 856.5699 | -544.9148 | 0.0000 |
| Beam 3: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -213.5084 | 903.9875 | -571.6079 | 0.0000 |
| Beam 3: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -195.3576 | 1195.2040 | -638.6319 | 0.0000 |
| Beam 3: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -227.0551 | 838.7270 | -492.5219 | 0.0000 |
| Beam 3: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -222.0846 | 864.2143 | -584.1374 | 0.0000 |
| Beam 3: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -188.3310 | 988.4751 | -644.5887 | 0.0000 |
| Beam 3: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -136.3696 | 550.9834 | -438.8340 | 0.0000 |
| Beam 3: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -228.8983 | 957.1678 | -619.1043 | 0.0000 |
| Beam 3: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -107.9556 | 357.7044 | -347.0337 | 0.0000 |
| Beam 3: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -247.1661 | 856.2745 | -568.6590 | 0.0000 |
| Beam 3: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -276.0574 | 1014.8465 | -541.2690 | 0.0000 |
| Beam 3: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -269.1401 | 1093.4247 | -620.6147 | 0.0000 |
| Beam 3: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -246.4280 | 783.5795 | -504.0581 | 0.0000 |
| Beam 3: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -259.4738 | 934.2809 | -620.2048 | 0.0000 |
| Beam 3: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -234.6405 | 860.4509 | -576.4759 | 0.0000 |
| Beam 3: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -114.6862 | 580.5693 | -379.1955 | 0.0000 |
| Beam 3: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -109.2562 | 565.8984 | -373.0079 | 0.0000 |
| Beam 3: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -150.6611 | 579.4982 | -386.3952 | 0.0000 |
| Beam 3: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -145.2311 | 564.8272 | -380.2076 | 0.0000 |
| Beam 3: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -132.1406 | 590.7560 | -370.5312 | 0.0000 |
| Beam 3: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -114.0406 | 541.8529 | -349.9060 | 0.0000 |
| Beam 3: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -142.9331 | 590.4346 | -372.6911 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 3: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -124.8331 | 541.5316 | -352.0659 |
| Beam 3: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -111.3917 | 570.3466 | -373.0841 |
| Beam 3: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -105.9617 | 555.6757 | -366.8965 |
| Beam 3: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -147.3666 | 569.2755 | -380.2838 |
| Beam 3: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -141.9366 | 554.6046 | -374.0962 |
| Beam 3: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -128.8461 | 580.5333 | -364.4198 |
| Beam 3: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -110.7461 | 531.6303 | -343.7946 |
| Beam 3: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -139.6386 | 580.2120 | -366.5797 |
| Beam 3: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -121.5386 | 531.3089 | -345.9545 |
| Beam 3: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -176.9139 | 740.8014 | -454.8220 |
| Beam 3: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -139.0734 | 625.4822 | -425.7459 |
| Beam 3: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -147.0921 | 827.7486 | -505.1066 |
| Beam 3: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -161.6932 | 700.4094 | -431.5704 |
| Beam 3: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -124.8988 | 584.7766 | -401.8559 |
| Beam 3: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -133.9141 | 786.8580 | -480.6611 |
| Beam 3: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -165.5930 | 803.8241 | -505.2855 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 3: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -148.4666 | 752.9069 | -475.1276 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -103.5773 | 378.5929 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -147.8712 | 738.1487 | -467.8251 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -134.1700 | 697.4149 | -443.6988 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 303.6357 | 1265.1200 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 303.6357 | 1265.1200 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 150.6611 | 590.7560 | 386.3952 | 0.0000 |
| Beam 3: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 176.9139 | 827.7486 | 505.2855 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 147.8712 | 738.1487 | 467.8251 | |
| 0.0000 | | | | | | |
| Beam 3: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 103.5773 | 378.5929 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 3: End 2: 1: PP | 0.0000 | 0.0000 | -110.0722 | 200.1857 | -172.4289 | 0.0000 |
| Beam 3: End 2: 2: PERM | 0.0000 | 0.0000 | -37.4293 | 103.5667 | -65.2880 | 0.0000 |
| Beam 3: End 2: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 22.6606 | -77.7595 | 0.0000 |
| Beam 3: End 2: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -11.7631 | 3.4108 | 0.0000 |
| Beam 3: End 2: 5: SPTW | 0.0000 | 0.0000 | 26.2654 | -132.8850 | 41.9610 | 0.0000 |
| Beam 3: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 93.9786 | -109.0719 | 0.0000 |
| Beam 3: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 76.5277 | -88.8183 | 0.0000 |
| Beam 3: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 22.0125 | -54.3179 | 0.0000 |
| Beam 3: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -13.0190 | 3.8079 | 0.0000 |
| Beam 3: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 18.0036 | -44.4136 | 0.0000 |
| Beam 3: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -10.6453 | 3.1136 | 0.0000 |
| Beam 3: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 36.2992 | -10.9666 | 0.0000 |
| Beam 3: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 34.9785 | -10.5676 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|---|--------|--------|-----------|----------|-----------|--------|--|
| Beam 3: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 3: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -90.2601 | 38.8522 | 0.0000 | |
| Beam 3: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 67.3942 | -29.0096 | 0.0000 | |
| Beam 3: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -18.2042 | 118.4139 | -53.1424 | 0.0000 | |
| Beam 3: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 50.8503 | -26.6541 | 0.0000 | |
| Beam 3: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 8.8855 | -10.3126 | 0.0000 | |
| Beam 3: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 25.1236 | -56.5439 | 0.0000 | |
| Beam 3: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -7.2211 | -13.6292 | 3.9639 | 0.0000 | |
| Beam 3: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -290.1267 | 524.4342 | -615.9153 | 0.0000 | |
| Beam 3: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -329.9773 | 791.9833 | -668.5781 | 0.0000 | |
| Beam 3: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -286.0705 | 446.0063 | -522.4681 | 0.0000 | |
| Beam 3: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -280.1613 | 485.8557 | -628.4448 | 0.0000 | |
| Beam 3: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -303.4704 | 619.0987 | -688.8962 | 0.0000 | |
| Beam 3: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -169.6223 | 292.8359 | -453.1953 | 0.0000 | |
| Beam 3: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -286.9749 | 567.0898 | -663.4118 | 0.0000 | |
| Beam 3: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -110.1902 | 175.1046 | -361.3950 | 0.0000 | |
| Beam 3: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -306.1909 | 432.8608 | -612.3879 | 0.0000 | |
| Beam 3: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -337.8271 | 532.4850 | -569.6299 | 0.0000 | |
| Beam 3: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -328.3526 | 631.0532 | -661.4713 | 0.0000 | |
| Beam 3: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -305.6405 | 360.2728 | -544.9148 | 0.0000 | |
| Beam 3: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -266.2415 | 491.4026 | -571.6079 | 0.0000 | |
| Beam 3: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -305.1534 | 764.7646 | -638.6319 | 0.0000 | |
| Beam 3: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -261.2466 | 418.7876 | -492.5219 | 0.0000 | |
| Beam 3: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -256.2761 | 452.8241 | -584.1374 | 0.0000 | |
| Beam 3: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -279.5852 | 586.0671 | -644.5887 | 0.0000 | |
| Beam 3: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -170.5611 | 287.0230 | -438.8340 | 0.0000 | |
| Beam 3: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -263.0897 | 534.0582 | -619.1043 | 0.0000 | |
| Beam 3: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -111.1290 | 169.2917 | -347.0337 | 0.0000 | |
| Beam 3: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -281.3575 | 401.7442 | -568.6590 | 0.0000 | |
| Beam 3: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -310.2488 | 510.6231 | -541.2690 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|----------|-----------|--------|
| Beam 3: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -303.3315 | 601.0991 | -620.6147 | 0.0000 |
| Beam 3: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -280.6194 | 330.3187 | -504.0581 | 0.0000 |
| Beam 3: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -293.6653 | 458.5813 | -620.2048 | 0.0000 |
| Beam 3: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -268.8320 | 427.4646 | -576.4759 | 0.0000 |
| Beam 3: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -136.4012 | 364.6341 | -379.1955 | 0.0000 |
| Beam 3: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -130.9712 | 359.3027 | -373.0079 | 0.0000 |
| Beam 3: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -172.3761 | 301.6862 | -386.3952 | 0.0000 |
| Beam 3: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -166.9461 | 296.3549 | -380.2076 | 0.0000 |
| Beam 3: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -153.8556 | 344.7992 | -370.5312 | 0.0000 |
| Beam 3: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -135.7556 | 327.0281 | -349.9060 | 0.0000 |
| Beam 3: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -164.6481 | 325.9148 | -372.6911 | 0.0000 |
| Beam 3: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -146.5481 | 308.1437 | -352.0659 | 0.0000 |
| Beam 3: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -133.1067 | 360.0780 | -373.0841 | 0.0000 |
| Beam 3: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -127.6767 | 354.7467 | -366.8965 | 0.0000 |
| Beam 3: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -169.0816 | 297.1301 | -380.2838 | 0.0000 |
| Beam 3: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -163.6516 | 291.7988 | -374.0962 | 0.0000 |
| Beam 3: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -150.5611 | 340.2431 | -364.4198 | 0.0000 |
| Beam 3: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -132.4611 | 322.4720 | -343.7946 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 3: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -161.3536 | 321.3587 | -366.5797 | 0.0000 |
| Beam 3: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -143.2536 | 303.5877 | -345.9545 | 0.0000 |
| Beam 3: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -237.9825 | 383.9905 | -454.8220 | 0.0000 |
| Beam 3: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -200.1420 | 333.7570 | -425.7459 | 0.0000 |
| Beam 3: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -208.1607 | 522.2312 | -505.1066 | 0.0000 |
| Beam 3: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -222.7618 | 369.7781 | -431.5704 | 0.0000 |
| Beam 3: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -185.9674 | 317.4316 | -401.8559 | 0.0000 |
| Beam 3: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -194.9827 | 504.0069 | -480.6611 | 0.0000 |
| Beam 3: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -226.6616 | 466.4851 | -505.2855 | 0.0000 |
| Beam 3: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -209.5352 | 445.0254 | -475.1276 | 0.0000 |
| Beam 3: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -125.2923 | 181.7650 | -270.1046 | 0.0000 |
| Beam 3: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -208.9398 | 431.2913 | -467.8251 | 0.0000 |
| Beam 3: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -195.2386 | 414.1235 | -443.6988 | 0.0000 |
| Beam 3: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 337.8271 | 791.9833 | 688.8962 | 0.0000 |
| Beam 3: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 337.8271 | 791.9833 | 688.8962 | 0.0000 |
| Beam 3: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 172.3761 | 364.6341 | 386.3952 | 0.0000 |
| Beam 3: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 237.9825 | 522.2312 | 505.2855 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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| Beam 3: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 208.9398 | 431.2913 | 467.8251 | |
| 0.0000 | | | | | | |
| Beam 3: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 125.2923 | 181.7650 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 1: PP | 0.0000 | 0.0000 | -110.0722 | 200.1857 | -172.4289 | 0.0000 |
| Beam 4: End 1: 2: PERM | 0.0000 | 0.0000 | -37.4293 | 103.5667 | -65.2880 | 0.0000 |
| Beam 4: End 1: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 22.6606 | -77.7595 | 0.0000 |
| Beam 4: End 1: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -11.7631 | 3.4108 | 0.0000 |
| Beam 4: End 1: 5: SPTW | 0.0000 | 0.0000 | 26.2654 | -132.8850 | 41.9610 | 0.0000 |
| Beam 4: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 93.9786 | -109.0719 | 0.0000 |
| Beam 4: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 76.5277 | -88.8183 | 0.0000 |
| Beam 4: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 22.0125 | -54.3179 | 0.0000 |
| Beam 4: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -13.0190 | 3.8079 | 0.0000 |
| Beam 4: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 18.0036 | -44.4136 | 0.0000 |
| Beam 4: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -10.6453 | 3.1136 | 0.0000 |
| Beam 4: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 36.2992 | -10.9666 | 0.0000 |
| Beam 4: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 34.9785 | -10.5676 | 0.0000 |
| Beam 4: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 4: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -90.2601 | 38.8522 | 0.0000 |
| Beam 4: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 67.3942 | -29.0096 | 0.0000 |
| Beam 4: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -18.2042 | 118.4139 | -53.1424 | 0.0000 |
| Beam 4: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 50.8503 | -26.6541 | 0.0000 |
| Beam 4: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 8.8855 | -10.3126 | 0.0000 |
| Beam 4: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 25.1236 | -56.5439 | 0.0000 |
| Beam 4: End 1: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | -13.6292 | 3.9639 | 0.0000 |
| Beam 4: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -290.1267 | 524.4342 | -615.9153 | 0.0000 |
| Beam 4: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -329.9773 | 791.9833 | -668.5781 | 0.0000 |
| Beam 4: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -286.0705 | 446.0063 | -522.4681 | 0.0000 |
| Beam 4: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -280.1613 | 485.8557 | -628.4448 | 0.0000 |
| Beam 4: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -303.4704 | 619.0987 | -688.8962 | 0.0000 |
| Beam 4: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -169.6223 | 292.8359 | -453.1953 | 0.0000 |

GENERAL CONTRACTOR





ALTA SORVEGLIANZA



| Progetto | Lotto | Codifica | |
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| IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 4: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -286.9749 | 567.0898 | -663.4118 | 0.0000 |
| Beam 4: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -110.1902 | 175.1046 | -361.3950 | 0.0000 |
| Beam 4: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -306.1909 | 432.8608 | -612.3879 | 0.0000 |
| Beam 4: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -337.8271 | 532.4850 | -569.6299 | 0.0000 |
| Beam 4: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -328.3526 | 631.0532 | -661.4713 | 0.0000 |
| Beam 4: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -305.6405 | 360.2728 | -544.9148 | 0.0000 |
| Beam 4: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -266.2415 | 491.4026 | -571.6079 | 0.0000 |
| Beam 4: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -305.1534 | 764.7646 | -638.6319 | 0.0000 |
| Beam 4: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -261.2466 | 418.7876 | -492.5219 | 0.0000 |
| Beam 4: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -256.2761 | 452.8241 | -584.1374 | 0.0000 |
| Beam 4: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -279.5852 | 586.0671 | -644.5887 | 0.0000 |
| Beam 4: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -170.5611 | 287.0230 | -438.8340 | 0.0000 |
| Beam 4: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -263.0897 | 534.0582 | -619.1043 | 0.0000 |
| Beam 4: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -111.1290 | 169.2917 | -347.0337 | 0.0000 |
| Beam 4: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -281.3575 | 401.7442 | -568.6590 | 0.0000 |
| Beam 4: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -310.2488 | 510.6231 | -541.2690 | 0.0000 |
| Beam 4: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -303.3315 | 601.0991 | -620.6147 | 0.0000 |
| Beam 4: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -280.6194 | 330.3187 | -504.0581 | 0.0000 |
| Beam 4: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -293.6653 | 458.5813 | -620.2048 | 0.0000 |
| Beam 4: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -268.8320 | 427.4646 | -576.4759 | 0.0000 |
| Beam 4: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -136.4012 | 364.6341 | -379.1955 | 0.0000 |
| Beam 4: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -130.9712 | 359.3027 | -373.0079 | 0.0000 |
| Beam 4: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -172.3761 | 301.6862 | -386.3952 | 0.0000 |
| Beam 4: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -166.9461 | 296.3549 | -380.2076 | 0.0000 |
| Beam 4: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -153.8556 | 344.7992 | -370.5312 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|----------|-----------|
| Beam 4: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -135.7556 | 327.0281 | -349.9060 |
| 0.0000 | | | | | |
| Beam 4: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -164.6481 | 325.9148 | -372.6911 |
| 0.0000 | | | | | |
| Beam 4: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -146.5481 | 308.1437 | -352.0659 |
| 0.0000 | | | | | |
| Beam 4: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -133.1067 | 360.0780 | -373.0841 |
| 0.0000 | | | | | |
| Beam 4: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -127.6767 | 354.7467 | -366.8965 |
| 0.0000 | | | | | |
| Beam 4: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -169.0816 | 297.1301 | -380.2838 |
| 0.0000 | | | | | |
| Beam 4: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -163.6516 | 291.7988 | -374.0962 |
| 0.0000 | | | | | |
| Beam 4: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -150.5611 | 340.2431 | -364.4198 |
| 0.0000 | | | | | |
| Beam 4: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -132.4611 | 322.4720 | -343.7946 |
| 0.0000 | | | | | |
| Beam 4: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -161.3536 | 321.3587 | -366.5797 |
| 0.0000 | | | | | |
| Beam 4: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -143.2536 | 303.5877 | -345.9545 |
| 0.0000 | | | | | |
| Beam 4: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -237.9825 | 383.9905 | -454.8220 |
| 0.0000 | | | | | |
| Beam 4: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -200.1420 | 333.7570 | -425.7459 |
| 0.0000 | | | | | |
| Beam 4: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -208.1607 | 522.2312 | -505.1066 |
| 0.0000 | | | | | |
| Beam 4: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -222.7618 | 369.7781 | -431.5704 |
| 0.0000 | | | | | |
| Beam 4: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -185.9674 | 317.4316 | -401.8559 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 4: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -194.9827 | 504.0069 | -480.6611 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -226.6616 | 466.4851 | -505.2855 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -209.5352 | 445.0254 | -475.1276 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -125.2923 | 181.7650 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -208.9398 | 431.2913 | -467.8251 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -195.2386 | 414.1235 | -443.6988 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 337.8271 | 791.9833 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 337.8271 | 791.9833 | 688.8962 | 0.0000 |
| Beam 4: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 172.3761 | 364.6341 | 386.3952 | 0.0000 |
| Beam 4: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 237.9825 | 522.2312 | 505.2855 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 208.9398 | 431.2913 | 467.8251 | |
| 0.0000 | | | | | | |
| Beam 4: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 125.2923 | 181.7650 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 4: End 2: 1: PP | 0.0000 | 0.0000 | -152.5005 | -26.9397 | -172.4289 | 0.0000 |
| Beam 4: End 2: 2: PERM | 0.0000 | 0.0000 | -70.1263 | 10.5311 | -65.2880 | 0.0000 |
| Beam 4: End 2: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 26.4791 | -77.7595 | 0.0000 |
| Beam 4: End 2: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -22.5988 | 3.4108 | 0.0000 |
| Beam 4: End 2: 5: SPTW | 0.0000 | 0.0000 | 79.5494 | -41.3552 | 41.9610 | 0.0000 |
| Beam 4: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | -71.6135 | -109.0719 | 0.0000 |
| Beam 4: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | -58.3156 | -88.8183 | 0.0000 |
| Beam 4: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 28.1412 | -54.3179 | 0.0000 |
| Beam 4: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -24.8398 | 3.8079 | 0.0000 |
| Beam 4: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 23.0122 | -44.4136 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto | Lotto | Codifica | |
| | IN17 | 12 | EI2CLSL0900001 | A |

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| Beam 4: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -20.3111 | 3.1136 | 0.0000 | |
| Beam 4: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 67.3913 | -10.9666 | 0.0000 | |
| Beam 4: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 64.9394 | -10.5676 | 0.0000 | |
| Beam 4: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 4: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -77.1628 | 38.8522 | 0.0000 | |
| Beam 4: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 57.6149 | -29.0096 | 0.0000 | |
| Beam 4: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -67.6822 | 44.1221 | -53.1424 | 0.0000 | |
| Beam 4: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 90.8237 | -26.6541 | 0.0000 | |
| Beam 4: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | -6.7710 | -10.3126 | 0.0000 | |
| Beam 4: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 30.3412 | -56.5439 | 0.0000 | |
| Beam 4: End 2: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | -26.1218 | 3.9639 | 0.0000 | |
| Beam 4: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -343.1663 | -23.3642 | -615.9153 | 0.0000 | |
| Beam 4: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -440.4114 | 125.5971 | -668.5781 | 0.0000 | |
| Beam 4: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -320.4608 | -78.6433 | -522.4681 | 0.0000 | |
| Beam 4: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -314.5515 | -28.5709 | -628.4448 | 0.0000 | |
| Beam 4: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -395.2551 | 14.7012 | -688.8962 | 0.0000 | |
| Beam 4: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -204.0126 | -30.3583 | -453.1953 | 0.0000 | |
| Beam 4: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -321.3651 | 40.8757 | -663.4118 | 0.0000 | |
| Beam 4: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -113.3820 | -18.2853 | -361.3950 | 0.0000 | |
| Beam 4: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -340.5811 | -126.5969 | -612.3879 | 0.0000 | |
| Beam 4: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -372.2174 | -81.7035 | -569.6299 | 0.0000 | |
| Beam 4: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -362.7429 | 33.2556 | -661.4713 | 0.0000 | |
| Beam 4: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -340.0308 | -198.2328 | -544.9148 | 0.0000 | |
| Beam 4: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -319.2811 | -15.0745 | -571.6079 | 0.0000 | |
| Beam 4: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -415.5875 | 141.3238 | -638.6319 | 0.0000 | |
| Beam 4: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -295.6368 | -62.9165 | -492.5219 | 0.0000 | |
| Beam 4: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -290.6663 | -20.2811 | -584.1374 | 0.0000 | |
| Beam 4: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -371.3699 | 22.9910 | -644.5887 | 0.0000 | |
| Beam 4: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -204.9513 | -37.7953 | -438.8340 | 0.0000 | |
| Beam 4: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -297.4799 | 49.1654 | -619.1043 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 4: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -114.3208 | -25.7223 | -347.0337 | 0.0000 |
| Beam 4: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -315.7478 | -114.7519 | -568.6590 | 0.0000 |
| Beam 4: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -344.6391 | -55.8549 | -541.2690 | 0.0000 |
| Beam 4: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -337.7218 | 46.5880 | -620.6147 | 0.0000 |
| Beam 4: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -315.0097 | -184.9004 | -504.0581 | 0.0000 |
| Beam 4: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -328.0555 | -79.2072 | -620.2048 | 0.0000 |
| Beam 4: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -303.2222 | -67.3622 | -576.4759 | 0.0000 |
| Beam 4: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -158.2425 | 109.7672 | -379.1955 | 0.0000 |
| Beam 4: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -152.8125 | 113.8298 | -373.0079 | 0.0000 |
| Beam 4: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -194.2173 | -15.4171 | -386.3952 | 0.0000 |
| Beam 4: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -188.7873 | -11.3545 | -380.2076 | 0.0000 |
| Beam 4: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -175.6969 | 59.7363 | -370.5312 | 0.0000 |
| Beam 4: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -157.5969 | 73.2782 | -349.9060 | 0.0000 |
| Beam 4: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -186.4893 | 22.1810 | -372.6911 | 0.0000 |
| Beam 4: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -168.3893 | 35.7229 | -352.0659 | 0.0000 |
| Beam 4: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -154.9480 | 110.9107 | -373.0841 | 0.0000 |
| Beam 4: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -149.5180 | 114.9732 | -366.8965 | 0.0000 |
| Beam 4: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -190.9228 | -14.2736 | -380.2838 | 0.0000 |
| Beam 4: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -185.4928 | -10.2111 | -374.0962 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 4: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -172.4024 | 60.8797 | -364.4198 | |
| Beam 4: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -154.3024 | 74.4216 | -343.7946 | |
| Beam 4: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -183.1948 | 23.3244 | -366.5797 | |
| Beam 4: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -165.0948 | 36.8663 | -345.9545 | |
| Beam 4: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -299.4062 | -80.8508 | -454.8220 | |
| Beam 4: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -261.5656 | -65.6201 | -425.7459 | |
| Beam 4: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -269.5843 | 108.9818 | -505.1066 | |
| Beam 4: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -284.1854 | -68.7312 | -431.5704 | |
| Beam 4: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -247.3911 | -57.4234 | -401.8559 | |
| Beam 4: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -256.4063 | 113.5554 | -480.6611 | |
| Beam 4: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -288.0853 | 21.2291 | -505.2855 | |
| Beam 4: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -270.9588 | 29.3980 | -475.1276 | |
| Beam 4: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -147.1336 | -53.8835 | -270.1046 | |
| Beam 4: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -270.3634 | 16.6941 | -467.8251 | |
| Beam 4: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -256.6623 | 23.2292 | -443.6988 | |
| Beam 4: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 440.4114 | 198.2328 | 688.8962 | |
| Beam 4: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 440.4114 | 198.2328 | 688.8962 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|---|--------|--------|-----------|----------|-----------|--------|
| Beam 4: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 194.2173 | 114.9732 | 386.3952 | 0.0000 |
| Beam 4: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 299.4062 | 113.5554 | 505.2855 | 0.0000 |
| Beam 4: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 270.3634 | 23.2292 | 467.8251 | 0.0000 |
| Beam 4: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 147.1336 | 53.8835 | 270.1046 | 0.0000 |
| Beam 5: End 1: 1: PP | 0.0000 | 0.0000 | -152.5005 | -26.9397 | -172.4289 | 0.0000 |
| Beam 5: End 1: 2: PERM | 0.0000 | 0.0000 | -70.1263 | 10.5311 | -65.2880 | 0.0000 |
| Beam 5: End 1: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 26.4791 | -77.7595 | 0.0000 |
| Beam 5: End 1: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -22.5988 | 3.4108 | 0.0000 |
| Beam 5: End 1: 5: SPTW | 0.0000 | 0.0000 | 79.5494 | -41.3552 | 41.9610 | 0.0000 |
| Beam 5: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | -71.6135 | -109.0719 | 0.0000 |
| Beam 5: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | -58.3156 | -88.8183 | 0.0000 |
| Beam 5: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 28.1412 | -54.3179 | 0.0000 |
| Beam 5: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -24.8398 | 3.8079 | 0.0000 |
| Beam 5: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 23.0122 | -44.4136 | 0.0000 |
| Beam 5: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -20.3111 | 3.1136 | 0.0000 |
| Beam 5: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 67.3913 | -10.9666 | 0.0000 |
| Beam 5: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 64.9394 | -10.5676 | 0.0000 |
| Beam 5: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 5: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -77.1628 | 38.8522 | 0.0000 |
| Beam 5: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 57.6149 | -29.0096 | 0.0000 |
| Beam 5: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -67.6822 | 44.1221 | -53.1424 | 0.0000 |
| Beam 5: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 90.8237 | -26.6541 | 0.0000 |
| Beam 5: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | -6.7710 | -10.3126 | 0.0000 |
| Beam 5: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 30.3412 | -56.5439 | 0.0000 |
| Beam 5: End 1: 21: SPSDX | 0.0000 | 0.0000 | -7.2211 | -26.1218 | 3.9639 | 0.0000 |
| Beam 5: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -343.1663 | -23.3642 | -615.9153 | 0.0000 |
| Beam 5: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -440.4114 | 125.5971 | -668.5781 | 0.0000 |
| Beam 5: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -320.4608 | -78.6433 | -522.4681 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLS0900001</p> | <p>A</p> |



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| Beam 5: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -314.5515 | -28.5709 | -628.4448 | 0.0000 |
| Beam 5: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -395.2551 | 14.7012 | -688.8962 | 0.0000 |
| Beam 5: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -204.0126 | -30.3583 | -453.1953 | 0.0000 |
| Beam 5: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -321.3651 | 40.8757 | -663.4118 | 0.0000 |
| Beam 5: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -113.3820 | -18.2853 | -361.3950 | 0.0000 |
| Beam 5: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -340.5811 | -126.5969 | -612.3879 | 0.0000 |
| Beam 5: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -372.2174 | -81.7035 | -569.6299 | 0.0000 |
| Beam 5: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -362.7429 | 33.2556 | -661.4713 | 0.0000 |
| Beam 5: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -340.0308 | -198.2328 | -544.9148 | 0.0000 |
| Beam 5: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -319.2811 | -15.0745 | -571.6079 | 0.0000 |
| Beam 5: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -415.5875 | 141.3238 | -638.6319 | 0.0000 |
| Beam 5: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -295.6368 | -62.9165 | -492.5219 | 0.0000 |
| Beam 5: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -290.6663 | -20.2811 | -584.1374 | 0.0000 |
| Beam 5: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -371.3699 | 22.9910 | -644.5887 | 0.0000 |
| Beam 5: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -204.9513 | -37.7953 | -438.8340 | 0.0000 |
| Beam 5: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -297.4799 | 49.1654 | -619.1043 | 0.0000 |
| Beam 5: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -114.3208 | -25.7223 | -347.0337 | 0.0000 |
| Beam 5: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -315.7478 | -114.7519 | -568.6590 | 0.0000 |
| Beam 5: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -344.6391 | -55.8549 | -541.2690 | 0.0000 |
| Beam 5: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -337.7218 | 46.5880 | -620.6147 | 0.0000 |
| Beam 5: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -315.0097 | -184.9004 | -504.0581 | 0.0000 |
| Beam 5: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -328.0555 | -79.2072 | -620.2048 | 0.0000 |
| Beam 5: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -303.2222 | -67.3622 | -576.4759 | 0.0000 |
| Beam 5: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -158.2425 | 109.7672 | -379.1955 | 0.0000 |
| Beam 5: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -152.8125 | 113.8298 | -373.0079 | 0.0000 |
| Beam 5: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -194.2173 | -15.4171 | -386.3952 | 0.0000 |
| Beam 5: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -188.7873 | -11.3545 | -380.2076 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|----------|-----------|
| Beam 5: End 1: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -175.6969 | 59.7363 | -370.5312 |
| Beam 5: End 1: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -157.5969 | 73.2782 | -349.9060 |
| Beam 5: End 1: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -186.4893 | 22.1810 | -372.6911 |
| Beam 5: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -168.3893 | 35.7229 | -352.0659 |
| Beam 5: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -154.9480 | 110.9107 | -373.0841 |
| Beam 5: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -149.5180 | 114.9732 | -366.8965 |
| Beam 5: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -190.9228 | -14.2736 | -380.2838 |
| Beam 5: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -185.4928 | -10.2111 | -374.0962 |
| Beam 5: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -172.4024 | 60.8797 | -364.4198 |
| Beam 5: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -154.3024 | 74.4216 | -343.7946 |
| Beam 5: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -183.1948 | 23.3244 | -366.5797 |
| Beam 5: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -165.0948 | 36.8663 | -345.9545 |
| Beam 5: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -299.4062 | -80.8508 | -454.8220 |
| Beam 5: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -261.5656 | -65.6201 | -425.7459 |
| Beam 5: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -269.5843 | 108.9818 | -505.1066 |
| Beam 5: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -284.1854 | -68.7312 | -431.5704 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 5: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -247.3911 | -57.4234 | -401.8559 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -256.4063 | 113.5554 | -480.6611 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -288.0853 | 21.2291 | -505.2855 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -270.9588 | 29.3980 | -475.1276 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -147.1336 | -53.8835 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -270.3634 | 16.6941 | -467.8251 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -256.6623 | 23.2292 | -443.6988 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 440.4114 | 198.2328 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 440.4114 | 198.2328 | 688.8962 | 0.0000 |
| Beam 5: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 194.2173 | 114.9732 | 386.3952 | 0.0000 |
| Beam 5: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 299.4062 | 113.5554 | 505.2855 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 270.3634 | 23.2292 | 467.8251 | |
| 0.0000 | | | | | | |
| Beam 5: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 147.1336 | 53.8835 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 5: End 2: 1: PP | 0.0000 | 0.0000 | -194.6835 | -325.5179 | -172.4289 | 0.0000 |
| Beam 5: End 2: 2: PERM | 0.0000 | 0.0000 | -102.6343 | -138.0431 | -65.2880 | 0.0000 |
| Beam 5: End 2: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 30.2755 | -77.7595 | 0.0000 |
| Beam 5: End 2: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -33.3719 | 3.4108 | 0.0000 |
| Beam 5: End 2: 5: SPTW | 0.0000 | 0.0000 | 132.5254 | 141.0292 | 41.9610 | 0.0000 |
| Beam 5: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | -236.2484 | -109.0719 | 0.0000 |
| Beam 5: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | -192.3794 | -88.8183 | 0.0000 |
| Beam 5: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 34.2344 | -54.3179 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 5: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -36.5922 | 3.8079 | 0.0000 |
| Beam 5: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 27.9919 | -44.4136 | 0.0000 |
| Beam 5: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -29.9209 | 3.1136 | 0.0000 |
| Beam 5: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 98.3037 | -10.9666 | 0.0000 |
| Beam 5: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 94.7272 | -10.5676 | 0.0000 |
| Beam 5: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 5: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -64.1412 | 38.8522 | 0.0000 |
| Beam 5: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 47.8921 | -29.0096 | 0.0000 |
| Beam 5: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -116.8742 | -114.5965 | -53.1424 | 0.0000 |
| Beam 5: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 130.5659 | -26.6541 | 0.0000 |
| Beam 5: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | -22.3369 | -10.3126 | 0.0000 |
| Beam 5: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 35.5287 | -56.5439 | 0.0000 |
| Beam 5: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -7.2211 | -38.5421 | 3.9639 | 0.0000 |
| Beam 5: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -395.8994 | -658.9607 | -615.9153 | 0.0000 |
| Beam 5: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -550.2072 | -726.3350 | -668.5781 | 0.0000 |
| Beam 5: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -354.6522 | -659.2405 | -522.4681 | 0.0000 |
| Beam 5: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -348.7430 | -599.0041 | -628.4448 | 0.0000 |
| Beam 5: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -486.5093 | -743.6162 | -688.8962 | 0.0000 |
| Beam 5: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -238.2040 | -410.6645 | -453.1953 | 0.0000 |
| Beam 5: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -355.5566 | -541.2770 | -663.4118 | 0.0000 |
| Beam 5: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -116.5554 | -216.0316 | -361.3950 | 0.0000 |
| Beam 5: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -374.7726 | -741.8010 | -612.3879 | 0.0000 |
| Beam 5: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -406.4088 | -751.3220 | -569.6299 | 0.0000 |
| Beam 5: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -396.9343 | -620.0668 | -661.4713 | 0.0000 |
| Beam 5: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -374.2222 | -812.4904 | -544.9148 | 0.0000 |
| Beam 5: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -372.0142 | -609.5885 | -571.6079 | 0.0000 |
| Beam 5: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -525.3832 | -667.9110 | -638.6319 | 0.0000 |
| Beam 5: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -329.8283 | -600.8165 | -492.5219 | 0.0000 |
| Beam 5: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -324.8578 | -549.6318 | -584.1374 | 0.0000 |
| Beam 5: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -462.6241 | -694.2439 | -644.5887 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 5: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -239.1428 | -419.7162 | -438.8340 | 0.0000 |
| Beam 5: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -331.6714 | -491.9047 | -619.1043 | 0.0000 |
| Beam 5: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -117.4942 | -225.0833 | -347.0337 | 0.0000 |
| Beam 5: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -349.9392 | -687.2428 | -568.6590 | 0.0000 |
| Beam 5: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -378.8305 | -678.0388 | -541.2690 | 0.0000 |
| Beam 5: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -371.9132 | -563.6981 | -620.6147 | 0.0000 |
| Beam 5: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -349.2011 | -756.1217 | -504.0581 | 0.0000 |
| Beam 5: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -362.2470 | -672.8673 | -620.2048 | 0.0000 |
| Beam 5: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -337.4136 | -618.3090 | -576.4759 | 0.0000 |
| Beam 5: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -179.9575 | -181.0847 | -379.1955 | 0.0000 |
| Beam 5: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -174.5275 | -167.6826 | -373.0079 | 0.0000 |
| Beam 5: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -215.9323 | -368.1458 | -386.3952 | 0.0000 |
| Beam 5: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -210.5023 | -354.7436 | -380.2076 | 0.0000 |
| Beam 5: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -197.4119 | -261.1373 | -370.5312 | 0.0000 |
| Beam 5: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -179.3119 | -216.4634 | -349.9060 | 0.0000 |
| Beam 5: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -208.2043 | -317.2556 | -372.6911 | 0.0000 |
| Beam 5: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -190.1043 | -272.5817 | -352.0659 | 0.0000 |
| Beam 5: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -176.6630 | -174.2748 | -373.0841 | 0.0000 |
| Beam 5: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -171.2330 | -160.8726 | -366.8965 | 0.0000 |
| Beam 5: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -212.6378 | -361.3358 | -380.2838 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 5: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -207.2078 | -347.9336 | -374.0962 |
| Beam 5: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -194.1174 | -254.3273 | -364.4198 |
| Beam 5: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -176.0174 | -209.6534 | -343.7946 |
| Beam 5: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -204.9098 | -310.4456 | -366.5797 |
| Beam 5: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -186.8098 | -265.7717 | -345.9545 |
| Beam 5: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -360.4748 | -648.3484 | -454.8220 |
| Beam 5: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -322.6342 | -568.0319 | -425.7459 |
| Beam 5: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -330.6529 | -407.2223 | -505.1066 |
| Beam 5: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -345.2540 | -610.0491 | -431.5704 |
| Beam 5: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -308.4597 | -535.4551 | -401.8559 |
| Beam 5: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -317.4749 | -379.9824 | -480.6611 |
| Beam 5: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -349.1539 | -526.7966 | -505.2855 |
| Beam 5: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -332.0274 | -489.1702 | -475.1276 |
| Beam 5: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -168.8486 | -325.6281 | -270.1046 |
| Beam 5: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -331.4320 | -500.8500 | -467.8251 |
| Beam 5: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -317.7309 | -470.7489 | -443.6988 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 5: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 550.2072 | 812.4904 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 5: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 550.2072 | 812.4904 | 688.8962 | 0.0000 |
| Beam 5: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 215.9323 | 368.1458 | 386.3952 | 0.0000 |
| Beam 5: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 360.4748 | 648.3484 | 505.2855 | |
| 0.0000 | | | | | | |
| Beam 5: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 331.4320 | 500.8500 | 467.8251 | |
| 0.0000 | | | | | | |
| Beam 5: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 168.8486 | 325.6281 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 6: End 1: 1: PP | 0.0000 | 0.0000 | -194.6835 | -325.5179 | -172.4289 | 0.0000 |
| Beam 6: End 1: 2: PERM | 0.0000 | 0.0000 | -102.6343 | -138.0431 | -65.2880 | 0.0000 |
| Beam 6: End 1: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 30.2755 | -77.7595 | 0.0000 |
| Beam 6: End 1: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -33.3719 | 3.4108 | 0.0000 |
| Beam 6: End 1: 5: SPTW | 0.0000 | 0.0000 | 132.5254 | 141.0292 | 41.9610 | 0.0000 |
| Beam 6: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | -236.2484 | -109.0719 | 0.0000 |
| Beam 6: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | -192.3794 | -88.8183 | 0.0000 |
| Beam 6: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 34.2344 | -54.3179 | 0.0000 |
| Beam 6: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -36.5922 | 3.8079 | 0.0000 |
| Beam 6: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 27.9919 | -44.4136 | 0.0000 |
| Beam 6: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -29.9209 | 3.1136 | 0.0000 |
| Beam 6: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 98.3037 | -10.9666 | 0.0000 |
| Beam 6: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 94.7272 | -10.5676 | 0.0000 |
| Beam 6: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 6: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -64.1412 | 38.8522 | 0.0000 |
| Beam 6: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 47.8921 | -29.0096 | 0.0000 |
| Beam 6: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -116.8742 | -114.5965 | -53.1424 | 0.0000 |
| Beam 6: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 130.5659 | -26.6541 | 0.0000 |
| Beam 6: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | -22.3369 | -10.3126 | 0.0000 |
| Beam 6: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 35.5287 | -56.5439 | 0.0000 |
| Beam 6: End 1: 21: SPSSDX | 0.0000 | 0.0000 | -7.2211 | -38.5421 | 3.9639 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 6: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -395.8994 | -658.9607 | -615.9153 | 0.0000 |
| Beam 6: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -550.2072 | -726.3350 | -668.5781 | 0.0000 |
| Beam 6: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -354.6522 | -659.2405 | -522.4681 | 0.0000 |
| Beam 6: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -348.7430 | -599.0041 | -628.4448 | 0.0000 |
| Beam 6: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -486.5093 | -743.6162 | -688.8962 | 0.0000 |
| Beam 6: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -238.2040 | -410.6645 | -453.1953 | 0.0000 |
| Beam 6: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -355.5566 | -541.2770 | -663.4118 | 0.0000 |
| Beam 6: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -116.5554 | -216.0316 | -361.3950 | 0.0000 |
| Beam 6: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -374.7726 | -741.8010 | -612.3879 | 0.0000 |
| Beam 6: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -406.4088 | -751.3220 | -569.6299 | 0.0000 |
| Beam 6: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -396.9343 | -620.0668 | -661.4713 | 0.0000 |
| Beam 6: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -374.2222 | -812.4904 | -544.9148 | 0.0000 |
| Beam 6: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -372.0142 | -609.5885 | -571.6079 | 0.0000 |
| Beam 6: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -525.3832 | -667.9110 | -638.6319 | 0.0000 |
| Beam 6: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -329.8283 | -600.8165 | -492.5219 | 0.0000 |
| Beam 6: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -324.8578 | -549.6318 | -584.1374 | 0.0000 |
| Beam 6: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -462.6241 | -694.2439 | -644.5887 | 0.0000 |
| Beam 6: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -239.1428 | -419.7162 | -438.8340 | 0.0000 |
| Beam 6: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -331.6714 | -491.9047 | -619.1043 | 0.0000 |
| Beam 6: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -117.4942 | -225.0833 | -347.0337 | 0.0000 |
| Beam 6: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -349.9392 | -687.2428 | -568.6590 | 0.0000 |
| Beam 6: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -378.8305 | -678.0388 | -541.2690 | 0.0000 |
| Beam 6: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -371.9132 | -563.6981 | -620.6147 | 0.0000 |
| Beam 6: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -349.2011 | -756.1217 | -504.0581 | 0.0000 |
| Beam 6: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -362.2470 | -672.8673 | -620.2048 | 0.0000 |
| Beam 6: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -337.4136 | -618.3090 | -576.4759 | 0.0000 |
| Beam 6: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -179.9575 | -181.0847 | -379.1955 | 0.0000 |
| Beam 6: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -174.5275 | -167.6826 | -373.0079 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 6: End 1: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | -215.9323 | -368.1458 | -386.3952 |
| Beam 6: End 1: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -210.5023 | -354.7436 | -380.2076 |
| Beam 6: End 1: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -197.4119 | -261.1373 | -370.5312 |
| Beam 6: End 1: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -179.3119 | -216.4634 | -349.9060 |
| Beam 6: End 1: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -208.2043 | -317.2556 | -372.6911 |
| Beam 6: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -190.1043 | -272.5817 | -352.0659 |
| Beam 6: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -176.6630 | -174.2748 | -373.0841 |
| Beam 6: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -171.2330 | -160.8726 | -366.8965 |
| Beam 6: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -212.6378 | -361.3358 | -380.2838 |
| Beam 6: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -207.2078 | -347.9336 | -374.0962 |
| Beam 6: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -194.1174 | -254.3273 | -364.4198 |
| Beam 6: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -176.0174 | -209.6534 | -343.7946 |
| Beam 6: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -204.9098 | -310.4456 | -366.5797 |
| Beam 6: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -186.8098 | -265.7717 | -345.9545 |
| Beam 6: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -360.4748 | -648.3484 | -454.8220 |
| Beam 6: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -322.6342 | -568.0319 | -425.7459 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 6: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -330.6529 | -407.2223 | -505.1066 | |
| Beam 6: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -345.2540 | -610.0491 | -431.5704 | |
| Beam 6: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -308.4597 | -535.4551 | -401.8559 | |
| Beam 6: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -317.4749 | -379.9824 | -480.6611 | |
| Beam 6: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -349.1539 | -526.7966 | -505.2855 | |
| Beam 6: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -332.0274 | -489.1702 | -475.1276 | |
| Beam 6: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -168.8486 | -325.6281 | -270.1046 | |
| Beam 6: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -331.4320 | -500.8500 | -467.8251 | |
| Beam 6: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -317.7309 | -470.7489 | -443.6988 | |
| Beam 6: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 550.2072 | 812.4904 | 688.8962 | |
| Beam 6: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 550.2072 | 812.4904 | 688.8962 | 0.0000 |
| Beam 6: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 215.9323 | 368.1458 | 386.3952 | 0.0000 |
| Beam 6: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 360.4748 | 648.3484 | 505.2855 | |
| Beam 6: End 1: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 331.4320 | 500.8500 | 467.8251 | |
| Beam 6: End 1: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 168.8486 | 325.6281 | 270.1046 | |
| Beam 6: End 2: 1: PP | 0.0000 | 0.0000 | -237.1117 | -699.0207 | -172.4289 | 0.0000 |
| Beam 6: End 2: 2: PERM | 0.0000 | 0.0000 | -135.3313 | -343.8833 | -65.2880 | 0.0000 |
| Beam 6: End 2: 3: SPTSX | 0.0000 | 0.0000 | 2.2072 | 34.0940 | -77.7595 | 0.0000 |
| Beam 6: End 2: 4: SPTDX | 0.0000 | 0.0000 | -6.2634 | -44.2076 | 3.4108 | 0.0000 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|---|--------|--------|-----------|------------|-----------|--------|--|
| Beam 6: End 2: 5: SPTW | 0.0000 | 0.0000 | 185.8094 | 416.3888 | 41.9610 | 0.0000 | |
| Beam 6: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | -401.8404 | -109.0719 | 0.0000 | |
| Beam 6: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | -327.2227 | -88.8183 | 0.0000 | |
| Beam 6: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.5426 | 40.3631 | -54.3179 | 0.0000 | |
| Beam 6: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -6.8328 | -48.4129 | 3.8079 | 0.0000 | |
| Beam 6: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 2.8951 | 33.0005 | -44.4136 | 0.0000 | |
| Beam 6: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -5.5871 | -39.5867 | 3.1136 | 0.0000 | |
| Beam 6: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 129.3958 | -10.9666 | 0.0000 | |
| Beam 6: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 124.6881 | -10.5676 | 0.0000 | |
| Beam 6: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 6: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -51.0439 | 38.8522 | 0.0000 | |
| Beam 6: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 38.1128 | -29.0096 | 0.0000 | |
| Beam 6: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -166.3522 | -359.5874 | -53.1424 | 0.0000 | |
| Beam 6: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 170.5393 | -26.6541 | 0.0000 | |
| Beam 6: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | -37.9934 | -10.3126 | 0.0000 | |
| Beam 6: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.0160 | 40.7464 | -56.5439 | 0.0000 | |
| Beam 6: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -7.2211 | -51.0346 | 3.9639 | 0.0000 | |
| Beam 6: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -448.9390 | -1389.7460 | -615.9153 | 0.0000 | |
| Beam 6: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -660.6413 | -1773.7190 | -668.5781 | 0.0000 | |
| Beam 6: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -389.0425 | -1302.5364 | -522.4681 | 0.0000 | |
| Beam 6: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -383.1332 | -1232.0770 | -628.4448 | 0.0000 | |
| Beam 6: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -578.2940 | -1664.6710 | -688.8962 | 0.0000 | |
| Beam 6: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -272.5942 | -852.5050 | -453.1953 | 0.0000 | |
| Beam 6: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -389.9468 | -1186.1375 | -663.4118 | 0.0000 | |
| Beam 6: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -119.7473 | -420.4334 | -361.3950 | 0.0000 | |
| Beam 6: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -409.1628 | -1419.9051 | -612.3879 | 0.0000 | |
| Beam 6: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -440.7991 | -1484.1569 | -569.6299 | 0.0000 | |
| Beam 6: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -431.3245 | -1336.5107 | -661.4713 | 0.0000 | |
| Beam 6: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -408.6124 | -1489.6423 | -544.9148 | 0.0000 | |
| Beam 6: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -425.0538 | -1299.0523 | -571.6079 | 0.0000 | |

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|---|---|-------------|----------------------------|---|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

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|---|--------|--------|-----------|------------|-----------|--------|
| Beam 6: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -635.8174 | -1672.3495 | -638.6319 | 0.0000 |
| Beam 6: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -364.2185 | -1201.1669 | -492.5219 | 0.0000 |
| Beam 6: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -359.2480 | -1141.3833 | -584.1374 | 0.0000 |
| Beam 6: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -554.4088 | -1573.9773 | -644.5887 | 0.0000 |
| Beam 6: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -273.5330 | -863.1808 | -438.8340 | 0.0000 |
| Beam 6: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -366.0616 | -1095.4438 | -619.1043 | 0.0000 |
| Beam 6: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -120.6861 | -431.1092 | -347.0337 | 0.0000 |
| Beam 6: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -384.3295 | -1322.3852 | -568.6590 | 0.0000 |
| Beam 6: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -413.2208 | -1363.1632 | -541.2690 | 0.0000 |
| Beam 6: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -406.3035 | -1236.8556 | -620.6147 | 0.0000 |
| Beam 6: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -383.5914 | -1389.9873 | -504.0581 | 0.0000 |
| Beam 6: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -396.6372 | -1329.3021 | -620.2048 | 0.0000 |
| Beam 6: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -371.8039 | -1231.7822 | -576.4759 | 0.0000 |
| Beam 6: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -201.7987 | -511.3039 | -379.1955 | 0.0000 |
| Beam 6: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -196.3687 | -488.5078 | -373.0079 | 0.0000 |
| Beam 6: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -237.7736 | -760.6013 | -386.3952 | 0.0000 |
| Beam 6: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -232.3436 | -737.8053 | -380.2076 | 0.0000 |
| Beam 6: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -219.2531 | -621.5525 | -370.5312 | 0.0000 |
| Beam 6: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -201.1531 | -545.5656 | -349.9060 | 0.0000 |
| Beam 6: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -230.0456 | -696.3418 | -372.6911 | 0.0000 |
| Beam 6: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -211.9456 | -620.3549 | -352.0659 | 0.0000 |
| Beam 6: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -198.5042 | -498.7944 | -373.0841 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|------------|-----------|
| Beam 6: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -193.0742 | -475.9983 | -366.8965 |
| 0.0000 | | | | | |
| Beam 6: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -234.4791 | -748.0919 | -380.2838 |
| 0.0000 | | | | | |
| Beam 6: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -229.0491 | -725.2958 | -374.0962 |
| 0.0000 | | | | | |
| Beam 6: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -215.9586 | -609.0430 | -364.4198 |
| 0.0000 | | | | | |
| Beam 6: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -197.8586 | -533.0562 | -343.7946 |
| 0.0000 | | | | | |
| Beam 6: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -226.7511 | -683.8323 | -366.5797 |
| 0.0000 | | | | | |
| Beam 6: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -208.6511 | -607.8454 | -345.9545 |
| 0.0000 | | | | | |
| Beam 6: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -421.8984 | -1325.1013 | -454.8220 |
| 0.0000 | | | | | |
| Beam 6: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -384.0579 | -1179.3206 | -425.7459 |
| 0.0000 | | | | | |
| Beam 6: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -392.0766 | -1032.3833 | -505.1066 |
| 0.0000 | | | | | |
| Beam 6: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -406.6777 | -1260.4700 | -431.5704 |
| 0.0000 | | | | | |
| Beam 6: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -369.8833 | -1122.2217 | -401.8559 |
| 0.0000 | | | | | |
| Beam 6: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -378.8986 | -982.3454 | -480.6611 |
| 0.0000 | | | | | |
| Beam 6: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -410.5775 | -1183.9642 | -505.2855 |
| 0.0000 | | | | | |
| Beam 6: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -393.4511 | -1116.7091 | -475.1276 |
| 0.0000 | | | | | |
| Beam 6: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -190.6898 | -636.6289 | -270.1046 |
| 0.0000 | | | | | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|------------|-----------|--------|
| Beam 6: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -392.8557 | -1127.3588 | -467.8251 | |
| 0.0000 | | | | | | |
| Beam 6: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -379.1545 | -1073.5547 | -443.6988 | |
| 0.0000 | | | | | | |
| Beam 6: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 660.6413 | 1773.7190 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 6: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 660.6413 | 1773.7190 | 688.8962 | |
| 0.0000 | | | | | | |
| Beam 6: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 237.7736 | 760.6013 | 386.3952 | 0.0000 |
| Beam 6: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 421.8984 | 1325.1013 | 505.2855 | |
| 0.0000 | | | | | | |
| Beam 6: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 392.8557 | 1127.3588 | 467.8251 | |
| 0.0000 | | | | | | |
| Beam 6: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 190.6898 | 636.6289 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 7: End 1: 1: PP | 0.0000 | 0.0000 | 237.1117 | -699.0207 | -172.4289 | 0.0000 |
| Beam 7: End 1: 2: PERM | 0.0000 | 0.0000 | 135.3313 | -343.8833 | -65.2880 | 0.0000 |
| Beam 7: End 1: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -44.2076 | 3.4108 | 0.0000 |
| Beam 7: End 1: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 34.0940 | -77.7595 | 0.0000 |
| Beam 7: End 1: 5: SPTW | 0.0000 | 0.0000 | -185.8094 | 416.3888 | 41.9610 | 0.0000 |
| Beam 7: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | -401.8404 | -109.0719 | 0.0000 |
| Beam 7: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | -327.2227 | -88.8183 | 0.0000 |
| Beam 7: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -48.4129 | 3.8079 | 0.0000 |
| Beam 7: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 40.3631 | -54.3179 | 0.0000 |
| Beam 7: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -39.5867 | 3.1136 | 0.0000 |
| Beam 7: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 33.0005 | -44.4136 | 0.0000 |
| Beam 7: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -129.3958 | 10.9666 | 0.0000 |
| Beam 7: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -124.6881 | 10.5676 | 0.0000 |
| Beam 7: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 7: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -51.0439 | 38.8522 | 0.0000 |
| Beam 7: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 38.1128 | -29.0096 | 0.0000 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 7: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 166.3522 | -359.5874 | -53.1424 | 0.0000 |
| Beam 7: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -170.5393 | 26.6541 | 0.0000 |
| Beam 7: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | -37.9934 | -10.3126 | 0.0000 |
| Beam 7: End 1: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -51.0346 | 3.9639 | 0.0000 |
| Beam 7: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 40.7464 | -56.5439 | 0.0000 |
| Beam 7: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 516.1031 | -1893.7191 | -499.8299 | 0.0000 |
| Beam 7: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 712.7611 | -2148.9669 | -636.7750 | 0.0000 |
| Beam 7: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 441.1622 | -1677.7843 | -490.6650 | 0.0000 |
| Beam 7: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 453.2620 | -1763.4557 | -483.9498 | 0.0000 |
| Beam 7: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 645.4580 | -2168.6441 | -572.8108 | 0.0000 |
| Beam 7: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 287.6385 | -981.2302 | -368.9129 | 0.0000 |
| Beam 7: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 460.0756 | -1717.5162 | -518.9168 | 0.0000 |
| Beam 7: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 137.7563 | -576.5642 | -248.7030 | 0.0000 |
| Beam 7: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 427.1718 | -1576.0359 | -499.6959 | 0.0000 |
| Beam 7: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 422.7900 | -1328.0261 | -682.3218 | 0.0000 |
| Beam 7: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 440.3952 | -1412.0852 | -622.4551 | 0.0000 |
| Beam 7: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 417.6831 | -1565.2169 | -505.8985 | 0.0000 |
| Beam 7: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 487.5766 | -1765.8991 | -472.0476 | 0.0000 |
| Beam 7: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 686.0409 | -2033.9450 | -607.9859 | 0.0000 |
| Beam 7: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 414.4420 | -1562.7624 | -461.8759 | 0.0000 |
| Beam 7: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 424.7355 | -1635.6357 | -456.1675 | 0.0000 |
| Beam 7: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 616.9316 | -2040.8242 | -545.0284 | 0.0000 |
| Beam 7: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 285.8323 | -968.4322 | -369.9197 | 0.0000 |
| Beam 7: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 431.5492 | -1589.6962 | -491.1344 | 0.0000 |
| Beam 7: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 135.9501 | -563.7662 | -249.7098 | 0.0000 |
| Beam 7: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 399.5935 | -1455.0422 | -471.3350 | 0.0000 |
| Beam 7: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 397.9567 | -1230.5062 | -638.5929 | 0.0000 |
| Beam 7: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 413.1782 | -1293.6511 | -593.8928 | 0.0000 |
| Beam 7: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 390.4661 | -1446.7828 | -477.3363 | 0.0000 |
| Beam 7: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 439.7580 | -1666.2306 | -492.1898 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|------------|-----------|--------|
| Beam 7: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 412.1797 | -1545.2369 | -463.8290 | 0.0000 |
| Beam 7: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 247.0376 | -830.1149 | -370.3834 | 0.0000 |
| Beam 7: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 241.6076 | -807.3188 | -364.1958 | 0.0000 |
| Beam 7: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 211.0627 | -580.8174 | -363.1837 | 0.0000 |
| Beam 7: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 205.6327 | -558.0213 | -356.9961 | 0.0000 |
| Beam 7: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 239.3096 | -765.8553 | -356.6793 | 0.0000 |
| Beam 7: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 221.2096 | -689.8684 | -336.0541 | 0.0000 |
| Beam 7: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 228.5171 | -691.0660 | -354.5194 | 0.0000 |
| Beam 7: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 210.4171 | -615.0792 | -333.8942 | 0.0000 |
| Beam 7: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 243.1029 | -812.4845 | -366.5513 | 0.0000 |
| Beam 7: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 237.6729 | -789.6885 | -360.3638 | 0.0000 |
| Beam 7: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 207.1281 | -563.1871 | -359.3516 | 0.0000 |
| Beam 7: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 201.6981 | -540.3910 | -353.1641 | 0.0000 |
| Beam 7: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 235.3749 | -748.2249 | -352.8473 | 0.0000 |
| Beam 7: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 217.2749 | -672.2381 | -332.2221 | 0.0000 |
| Beam 7: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 224.5825 | -673.4357 | -350.6873 | 0.0000 |
| Beam 7: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 206.4825 | -597.4488 | -330.0622 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|------------|-----------|--------|
| Beam 7: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 393.1427 | -1118.0679 | -472.3685 | |
| Beam 7: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 412.8136 | -1386.3539 | -408.1994 | |
| Beam 7: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 430.8267 | -1326.0978 | -424.8254 | |
| Beam 7: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 378.9682 | -1060.9691 | -448.4785 | |
| Beam 7: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 397.5928 | -1321.7227 | -384.9477 | |
| Beam 7: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 415.0880 | -1255.5764 | -409.4973 | |
| Beam 7: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 439.9655 | -1413.0886 | -420.3581 | |
| Beam 7: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 420.9459 | -1329.6447 | -400.7988 | |
| Beam 7: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 190.6898 | -636.6289 | -270.1046 | |
| Beam 7: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 417.2279 | -1317.5566 | -396.3172 | |
| Beam 7: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 402.0123 | -1250.8015 | -380.6698 | |
| Beam 7: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 712.7611 | 2168.6441 | 682.3218 | |
| Beam 7: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 712.7611 | 2168.6441 | 682.3218 | |
| Beam 7: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 247.0376 | 830.1149 | 370.3834 | 0.0000 |
| Beam 7: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 439.9655 | 1413.0886 | 472.3685 | |
| Beam 7: End 1: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 417.2279 | 1317.5566 | 396.3172 | |
| Beam 7: End 1: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 190.6898 | 636.6289 | 270.1046 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|------------|-----------|--------|--|
| Beam 7: End 2: 1: PP | 0.0000 | 0.0000 | 194.6835 | -325.5179 | -172.4289 | 0.0000 | |
| Beam 7: End 2: 2: PERM | 0.0000 | 0.0000 | 102.6343 | -138.0431 | -65.2880 | 0.0000 | |
| Beam 7: End 2: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -33.3719 | 3.4108 | 0.0000 | |
| Beam 7: End 2: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 30.2755 | -77.7595 | 0.0000 | |
| Beam 7: End 2: 5: SPTW | 0.0000 | 0.0000 | -132.5254 | 141.0292 | 41.9610 | 0.0000 | |
| Beam 7: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | -236.2484 | -109.0719 | 0.0000 | |
| Beam 7: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | -192.3794 | -88.8183 | 0.0000 | |
| Beam 7: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -36.5922 | 3.8079 | 0.0000 | |
| Beam 7: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 34.2344 | -54.3179 | 0.0000 | |
| Beam 7: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -29.9209 | 3.1136 | 0.0000 | |
| Beam 7: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 27.9919 | -44.4136 | 0.0000 | |
| Beam 7: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -98.3037 | 10.9666 | 0.0000 | |
| Beam 7: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -94.7272 | 10.5676 | 0.0000 | |
| Beam 7: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 7: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -64.1412 | 38.8522 | 0.0000 | |
| Beam 7: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 47.8921 | -29.0096 | 0.0000 | |
| Beam 7: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 116.8742 | -114.5965 | -53.1424 | 0.0000 | |
| Beam 7: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -130.5659 | 26.6541 | 0.0000 | |
| Beam 7: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | -22.3369 | -10.3126 | 0.0000 | |
| Beam 7: End 2: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -38.5421 | 3.9639 | 0.0000 | |
| Beam 7: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -3.0160 | 35.5287 | -56.5439 | 0.0000 | |
| Beam 7: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 463.0634 | -1046.7401 | -499.8299 | 0.0000 | |
| Beam 7: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 602.3270 | -1011.4158 | -636.7750 | 0.0000 | |
| Beam 7: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 406.7720 | -944.3212 | -490.6650 | 0.0000 | |
| Beam 7: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 418.8717 | -1009.0600 | -483.9498 | 0.0000 | |
| Beam 7: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 553.6733 | -1131.3955 | -572.8108 | 0.0000 | |
| Beam 7: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 253.2483 | -513.3631 | -368.9129 | 0.0000 | |
| Beam 7: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 425.6854 | -951.3329 | -518.9168 | 0.0000 | |
| Beam 7: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 134.5644 | -341.0067 | -248.7030 | 0.0000 | |
| Beam 7: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 392.7816 | -866.7762 | -499.6959 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|------------|-----------|--------|
| Beam 7: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 388.3998 | -626.3469 | -682.3218 | 0.0000 |
| Beam 7: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 406.0050 | -679.9490 | -622.4551 | 0.0000 |
| Beam 7: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 383.2929 | -872.3726 | -505.8985 | 0.0000 |
| Beam 7: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 434.5370 | -968.2708 | -472.0476 | 0.0000 |
| Beam 7: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 575.6067 | -942.6198 | -607.9859 | 0.0000 |
| Beam 7: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 380.0518 | -875.5253 | -461.8759 | 0.0000 |
| Beam 7: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 390.3453 | -930.5908 | -456.1675 | 0.0000 |
| Beam 7: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 525.1469 | -1052.9263 | -545.0284 | 0.0000 |
| Beam 7: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 251.4421 | -503.6898 | -369.9197 | 0.0000 |
| Beam 7: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 397.1589 | -872.8637 | -491.1344 | 0.0000 |
| Beam 7: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 132.7582 | -331.3334 | -249.7098 | 0.0000 |
| Beam 7: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 365.2033 | -793.4930 | -471.3350 | 0.0000 |
| Beam 7: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 363.5665 | -571.7886 | -638.5929 | 0.0000 |
| Beam 7: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 378.7880 | -608.6004 | -593.8928 | 0.0000 |
| Beam 7: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 356.0759 | -801.0240 | -477.3363 | 0.0000 |
| Beam 7: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 405.3677 | -935.1968 | -492.1898 | 0.0000 |
| Beam 7: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 377.7894 | -861.9136 | -463.8290 | 0.0000 |
| Beam 7: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 225.1963 | -421.6326 | -370.3834 | 0.0000 |
| Beam 7: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 219.7663 | -408.2304 | -364.1958 | 0.0000 |
| Beam 7: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 189.2215 | -234.5715 | -363.1837 | 0.0000 |
| Beam 7: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 183.7915 | -221.1694 | -356.9961 | 0.0000 |
| Beam 7: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 217.4683 | -370.7424 | -356.6793 | 0.0000 |
| Beam 7: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 199.3683 | -326.0685 | -336.0541 | 0.0000 |
| Beam 7: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 206.6759 | -314.6241 | -354.5194 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|
| Beam 7: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 188.5759 | -269.9502 | -333.8942 |
| 0.0000 | | | | | |
| Beam 7: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 221.2616 | -410.8092 | -366.5513 |
| 0.0000 | | | | | |
| Beam 7: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 215.8316 | -397.4070 | -360.3638 |
| 0.0000 | | | | | |
| Beam 7: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 185.2868 | -223.7482 | -359.3516 |
| 0.0000 | | | | | |
| Beam 7: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 179.8568 | -210.3460 | -353.1641 |
| 0.0000 | | | | | |
| Beam 7: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 213.5337 | -359.9190 | -352.8473 |
| 0.0000 | | | | | |
| Beam 7: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 195.4337 | -315.2452 | -332.2221 |
| 0.0000 | | | | | |
| Beam 7: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 202.7412 | -303.8007 | -350.6873 |
| 0.0000 | | | | | |
| Beam 7: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 184.6412 | -259.1269 | -330.0622 |
| 0.0000 | | | | | |
| Beam 7: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 331.7191 | -491.0625 | -472.3685 |
| 0.0000 | | | | | |
| Beam 7: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 351.3900 | -725.3179 | -408.1994 |
| 0.0000 | | | | | |
| Beam 7: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 369.4031 | -633.8990 | -424.8254 |
| 0.0000 | | | | | |
| Beam 7: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 317.5445 | -458.4856 | -448.4785 |
| 0.0000 | | | | | |
| Beam 7: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 336.1692 | -687.0185 | -384.9477 |
| 0.0000 | | | | | |
| Beam 7: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 353.6644 | -590.6056 | -409.4973 |
| 0.0000 | | | | | |
| Beam 7: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 378.5418 | -705.0798 | -420.3581 |
| 0.0000 | | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 7: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 359.5223 | -654.5396 | -400.7988 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 168.8486 | -325.6281 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 355.8043 | -648.8837 | -396.3172 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 340.5887 | -608.4516 | -380.6698 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 602.3270 | 1131.3955 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 602.3270 | 1131.3955 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 225.1963 | 421.6326 | 370.3834 | 0.0000 |
| Beam 7: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 378.5418 | 725.3179 | 472.3685 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 355.8043 | 648.8837 | 396.3172 | |
| 0.0000 | | | | | | |
| Beam 7: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 168.8486 | 325.6281 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 8: End 1: 1: PP | 0.0000 | 0.0000 | 194.6835 | -325.5179 | -172.4289 | 0.0000 |
| Beam 8: End 1: 2: PERM | 0.0000 | 0.0000 | 102.6343 | -138.0431 | -65.2880 | 0.0000 |
| Beam 8: End 1: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -33.3719 | 3.4108 | 0.0000 |
| Beam 8: End 1: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 30.2755 | -77.7595 | 0.0000 |
| Beam 8: End 1: 5: SPTW | 0.0000 | 0.0000 | -132.5254 | 141.0292 | 41.9610 | 0.0000 |
| Beam 8: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | -236.2484 | -109.0719 | 0.0000 |
| Beam 8: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | -192.3794 | -88.8183 | 0.0000 |
| Beam 8: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -36.5922 | 3.8079 | 0.0000 |
| Beam 8: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 34.2344 | -54.3179 | 0.0000 |
| Beam 8: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -29.9209 | 3.1136 | 0.0000 |
| Beam 8: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 27.9919 | -44.4136 | 0.0000 |
| Beam 8: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -98.3037 | 10.9666 | 0.0000 |
| Beam 8: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -94.7272 | 10.5676 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|------------|-----------|--------|--|
| Beam 8: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 8: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -64.1412 | 38.8522 | 0.0000 | |
| Beam 8: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 47.8921 | -29.0096 | 0.0000 | |
| Beam 8: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 116.8742 | -114.5965 | -53.1424 | 0.0000 | |
| Beam 8: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -130.5659 | 26.6541 | 0.0000 | |
| Beam 8: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | -22.3369 | -10.3126 | 0.0000 | |
| Beam 8: End 1: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -38.5421 | 3.9639 | 0.0000 | |
| Beam 8: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -3.0160 | 35.5287 | -56.5439 | 0.0000 | |
| Beam 8: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 463.0634 | -1046.7401 | -499.8299 | 0.0000 | |
| Beam 8: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 602.3270 | -1011.4158 | -636.7750 | 0.0000 | |
| Beam 8: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 406.7720 | -944.3212 | -490.6650 | 0.0000 | |
| Beam 8: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 418.8717 | -1009.0600 | -483.9498 | 0.0000 | |
| Beam 8: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 553.6733 | -1131.3955 | -572.8108 | 0.0000 | |
| Beam 8: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 253.2483 | -513.3631 | -368.9129 | 0.0000 | |
| Beam 8: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 425.6854 | -951.3329 | -518.9168 | 0.0000 | |
| Beam 8: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 134.5644 | -341.0067 | -248.7030 | 0.0000 | |
| Beam 8: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 392.7816 | -866.7762 | -499.6959 | 0.0000 | |
| Beam 8: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 388.3998 | -626.3469 | -682.3218 | 0.0000 | |
| Beam 8: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 406.0050 | -679.9490 | -622.4551 | 0.0000 | |
| Beam 8: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 383.2929 | -872.3726 | -505.8985 | 0.0000 | |
| Beam 8: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 434.5370 | -968.2708 | -472.0476 | 0.0000 | |
| Beam 8: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 575.6067 | -942.6198 | -607.9859 | 0.0000 | |
| Beam 8: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 380.0518 | -875.5253 | -461.8759 | 0.0000 | |
| Beam 8: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 390.3453 | -930.5908 | -456.1675 | 0.0000 | |
| Beam 8: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 525.1469 | -1052.9263 | -545.0284 | 0.0000 | |
| Beam 8: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 251.4421 | -503.6898 | -369.9197 | 0.0000 | |
| Beam 8: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 397.1589 | -872.8637 | -491.1344 | 0.0000 | |
| Beam 8: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 132.7582 | -331.3334 | -249.7098 | 0.0000 | |
| Beam 8: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 365.2033 | -793.4930 | -471.3350 | 0.0000 | |
| Beam 8: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 363.5665 | -571.7886 | -638.5929 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 8: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 378.7880 | -608.6004 | -593.8928 | 0.0000 |
| Beam 8: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 356.0759 | -801.0240 | -477.3363 | 0.0000 |
| Beam 8: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 405.3677 | -935.1968 | -492.1898 | 0.0000 |
| Beam 8: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 377.7894 | -861.9136 | -463.8290 | 0.0000 |
| Beam 8: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 225.1963 | -421.6326 | -370.3834 | 0.0000 |
| Beam 8: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 219.7663 | -408.2304 | -364.1958 | 0.0000 |
| Beam 8: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 189.2215 | -234.5715 | -363.1837 | 0.0000 |
| Beam 8: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 183.7915 | -221.1694 | -356.9961 | 0.0000 |
| Beam 8: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 217.4683 | -370.7424 | -356.6793 | 0.0000 |
| Beam 8: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 199.3683 | -326.0685 | -336.0541 | 0.0000 |
| Beam 8: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 206.6759 | -314.6241 | -354.5194 | 0.0000 |
| Beam 8: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 188.5759 | -269.9502 | -333.8942 | 0.0000 |
| Beam 8: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 221.2616 | -410.8092 | -366.5513 | 0.0000 |
| Beam 8: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 215.8316 | -397.4070 | -360.3638 | 0.0000 |
| Beam 8: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 185.2868 | -223.7482 | -359.3516 | 0.0000 |
| Beam 8: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 179.8568 | -210.3460 | -353.1641 | 0.0000 |
| Beam 8: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 213.5337 | -359.9190 | -352.8473 | 0.0000 |
| Beam 8: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 195.4337 | -315.2452 | -332.2221 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|
| Beam 8: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 202.7412 | -303.8007 | -350.6873 |
| 0.0000 | | | | | |
| Beam 8: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 184.6412 | -259.1269 | -330.0622 |
| 0.0000 | | | | | |
| Beam 8: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 331.7191 | -491.0625 | -472.3685 |
| 0.0000 | | | | | |
| Beam 8: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 351.3900 | -725.3179 | -408.1994 |
| 0.0000 | | | | | |
| Beam 8: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 369.4031 | -633.8990 | -424.8254 |
| 0.0000 | | | | | |
| Beam 8: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 317.5445 | -458.4856 | -448.4785 |
| 0.0000 | | | | | |
| Beam 8: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 336.1692 | -687.0185 | -384.9477 |
| 0.0000 | | | | | |
| Beam 8: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 353.6644 | -590.6056 | -409.4973 |
| 0.0000 | | | | | |
| Beam 8: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 378.5418 | -705.0798 | -420.3581 |
| 0.0000 | | | | | |
| Beam 8: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 359.5223 | -654.5396 | -400.7988 |
| 0.0000 | | | | | |
| Beam 8: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 168.8486 | -325.6281 | -270.1046 |
| 0.0000 | | | | | |
| Beam 8: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 355.8043 | -648.8837 | -396.3172 |
| 0.0000 | | | | | |
| Beam 8: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 340.5887 | -608.4516 | -380.6698 |
| 0.0000 | | | | | |
| Beam 8: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 602.3270 | 1131.3955 | 682.3218 |
| 0.0000 | | | | | |
| Beam 8: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 602.3270 | 1131.3955 | 682.3218 |
| 0.0000 | | | | | |
| Beam 8: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 225.1963 | 421.6326 | 370.3834 |
| 0.0000 | | | | | |
| Beam 8: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 378.5418 | 725.3179 | 472.3685 |
| 0.0000 | | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSLO900001 | A |



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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 8: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 355.8043 | 648.8837 | 396.3172 | |
| 0.0000 | | | | | | |
| Beam 8: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 168.8486 | 325.6281 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 1: PP | 0.0000 | 0.0000 | 152.5005 | -26.9397 | -172.4289 | 0.0000 |
| Beam 8: End 2: 2: PERM | 0.0000 | 0.0000 | 70.1263 | 10.5311 | -65.2880 | 0.0000 |
| Beam 8: End 2: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -22.5988 | 3.4108 | 0.0000 |
| Beam 8: End 2: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 26.4791 | -77.7595 | 0.0000 |
| Beam 8: End 2: 5: SPTW | 0.0000 | 0.0000 | -79.5494 | -41.3552 | 41.9610 | 0.0000 |
| Beam 8: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | -71.6135 | -109.0719 | 0.0000 |
| Beam 8: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | -58.3156 | -88.8183 | 0.0000 |
| Beam 8: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -24.8398 | 3.8079 | 0.0000 |
| Beam 8: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 28.1412 | -54.3179 | 0.0000 |
| Beam 8: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -20.3111 | 3.1136 | 0.0000 |
| Beam 8: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 23.0122 | -44.4136 | 0.0000 |
| Beam 8: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -67.3913 | 10.9666 | 0.0000 |
| Beam 8: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -64.9394 | 10.5676 | 0.0000 |
| Beam 8: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 8: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -77.1628 | 38.8522 | 0.0000 |
| Beam 8: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 57.6149 | -29.0096 | 0.0000 |
| Beam 8: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 67.6822 | 44.1221 | -53.1424 | 0.0000 |
| Beam 8: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -90.8237 | 26.6541 | 0.0000 |
| Beam 8: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | -6.7710 | -10.3126 | 0.0000 |
| Beam 8: End 2: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -26.1218 | 3.9639 | 0.0000 |
| Beam 8: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 30.3412 | -56.5439 | 0.0000 |
| Beam 8: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 410.3304 | -295.6214 | -499.8299 | 0.0000 |
| Beam 8: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 492.5312 | -69.8377 | -636.7750 | 0.0000 |
| Beam 8: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 372.5805 | -274.0781 | -490.6650 | 0.0000 |
| Beam 8: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 384.6803 | -318.0053 | -483.9498 | 0.0000 |
| Beam 8: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 462.4191 | -257.5560 | -572.8108 | 0.0000 |
| Beam 8: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 219.0568 | -107.1807 | -368.9129 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 8: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 391.4939 | -248.5588 | -518.9168 | 0.0000 |
| Beam 8: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 131.3910 | -112.2850 | -248.7030 | 0.0000 |
| Beam 8: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 358.5901 | -220.5966 | -499.6959 | 0.0000 |
| Beam 8: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 354.2084 | 12.2961 | -682.3218 | 0.0000 |
| Beam 8: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 371.8136 | -11.0250 | -622.4551 | 0.0000 |
| Beam 8: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 349.1015 | -242.5134 | -505.8985 | 0.0000 |
| Beam 8: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 381.8039 | -266.2176 | -472.0476 | 0.0000 |
| Beam 8: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 465.8110 | -47.0006 | -607.9859 | 0.0000 |
| Beam 8: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 345.8603 | -251.2409 | -461.8759 | 0.0000 |
| Beam 8: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 356.1539 | -288.6015 | -456.1675 | 0.0000 |
| Beam 8: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 433.8927 | -228.1522 | -545.0284 | 0.0000 |
| Beam 8: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 217.2506 | -100.6140 | -369.9197 | 0.0000 |
| Beam 8: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 362.9675 | -219.1550 | -491.1344 | 0.0000 |
| Beam 8: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 129.5848 | -105.7184 | -249.7098 | 0.0000 |
| Beam 8: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 331.0118 | -194.7480 | -471.3350 | 0.0000 |
| Beam 8: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 329.3750 | 24.1411 | -638.5929 | 0.0000 |
| Beam 8: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 344.5965 | 13.5102 | -593.8928 | 0.0000 |
| Beam 8: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 321.8844 | -217.9782 | -477.3363 | 0.0000 |
| Beam 8: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 371.1763 | -267.3690 | -492.1898 | 0.0000 |
| Beam 8: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 343.5980 | -241.5204 | -463.8290 | 0.0000 |
| Beam 8: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 203.4813 | -52.9698 | -370.3834 | 0.0000 |
| Beam 8: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 198.0513 | -48.9072 | -364.1958 | 0.0000 |
| Beam 8: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 167.5065 | 72.2145 | -363.1837 | 0.0000 |
| Beam 8: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 162.0765 | 76.2771 | -356.9961 | 0.0000 |
| Beam 8: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 195.7533 | -15.3718 | -356.6793 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|
| Beam 8: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 177.6533 | -1.8298 | -336.0541 |
| 0.0000 | | | | | |
| Beam 8: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 184.9609 | 22.1835 | -354.5194 |
| 0.0000 | | | | | |
| Beam 8: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 166.8609 | 35.7254 | -333.8942 |
| 0.0000 | | | | | |
| Beam 8: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 199.5466 | -48.9141 | -366.5513 |
| 0.0000 | | | | | |
| Beam 8: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 194.1166 | -44.8515 | -360.3638 |
| 0.0000 | | | | | |
| Beam 8: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 163.5718 | 76.2702 | -359.3516 |
| 0.0000 | | | | | |
| Beam 8: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 158.1418 | 80.3328 | -353.1641 |
| 0.0000 | | | | | |
| Beam 8: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 191.8187 | -11.3161 | -352.8473 |
| 0.0000 | | | | | |
| Beam 8: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 173.7187 | 2.2258 | -332.2221 |
| 0.0000 | | | | | |
| Beam 8: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 181.0262 | 26.2392 | -350.6873 |
| 0.0000 | | | | | |
| Beam 8: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 162.9262 | 39.7811 | -330.0622 |
| 0.0000 | | | | | |
| Beam 8: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 270.6505 | 26.9753 | -472.3685 |
| 0.0000 | | | | | |
| Beam 8: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 290.3214 | -173.4462 | -408.1994 |
| 0.0000 | | | | | |
| Beam 8: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 308.3345 | -51.0447 | -424.8254 |
| 0.0000 | | | | | |
| Beam 8: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 256.4759 | 35.1719 | -448.4785 |
| 0.0000 | | | | | |
| Beam 8: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 275.1006 | -161.3265 | -384.9477 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 8: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 292.5958 | -34.8219 | -409.4973 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 317.4732 | -106.5069 | -420.3581 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 298.4537 | -88.6803 | -400.7988 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 147.1336 | -53.8835 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 294.7357 | -89.4193 | -396.3172 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 279.5201 | -75.1580 | -380.6698 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 492.5312 | 318.0053 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 492.5312 | 318.0053 | 682.3218 | 0.0000 |
| Beam 8: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 203.4813 | 80.3328 | 370.3834 | 0.0000 |
| Beam 8: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 317.4732 | 173.4462 | 472.3685 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 294.7357 | 89.4193 | 396.3172 | |
| 0.0000 | | | | | | |
| Beam 8: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 147.1336 | 53.8835 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 9: End 1: 1: PP | 0.0000 | 0.0000 | 152.5005 | -26.9397 | -172.4289 | 0.0000 |
| Beam 9: End 1: 2: PERM | 0.0000 | 0.0000 | 70.1263 | 10.5311 | -65.2880 | 0.0000 |
| Beam 9: End 1: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -22.5988 | 3.4108 | 0.0000 |
| Beam 9: End 1: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 26.4791 | -77.7595 | 0.0000 |
| Beam 9: End 1: 5: SPTW | 0.0000 | 0.0000 | -79.5494 | -41.3552 | 41.9610 | 0.0000 |
| Beam 9: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | -71.6135 | -109.0719 | 0.0000 |
| Beam 9: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | -58.3156 | -88.8183 | 0.0000 |
| Beam 9: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -24.8398 | 3.8079 | 0.0000 |
| Beam 9: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 28.1412 | -54.3179 | 0.0000 |
| Beam 9: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -20.3111 | 3.1136 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSLO900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 9: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 23.0122 | -44.4136 | 0.0000 |
| Beam 9: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -67.3913 | 10.9666 | 0.0000 |
| Beam 9: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -64.9394 | 10.5676 | 0.0000 |
| Beam 9: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 9: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -77.1628 | 38.8522 | 0.0000 |
| Beam 9: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 57.6149 | -29.0096 | 0.0000 |
| Beam 9: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 67.6822 | 44.1221 | -53.1424 | 0.0000 |
| Beam 9: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -90.8237 | 26.6541 | 0.0000 |
| Beam 9: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | -6.7710 | -10.3126 | 0.0000 |
| Beam 9: End 1: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -26.1218 | 3.9639 | 0.0000 |
| Beam 9: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 30.3412 | -56.5439 | 0.0000 |
| Beam 9: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 410.3304 | -295.6214 | -499.8299 | 0.0000 |
| Beam 9: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 492.5312 | -69.8377 | -636.7750 | 0.0000 |
| Beam 9: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 372.5805 | -274.0781 | -490.6650 | 0.0000 |
| Beam 9: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 384.6803 | -318.0053 | -483.9498 | 0.0000 |
| Beam 9: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 462.4191 | -257.5560 | -572.8108 | 0.0000 |
| Beam 9: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 219.0568 | -107.1807 | -368.9129 | 0.0000 |
| Beam 9: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 391.4939 | -248.5588 | -518.9168 | 0.0000 |
| Beam 9: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 131.3910 | -112.2850 | -248.7030 | 0.0000 |
| Beam 9: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 358.5901 | -220.5966 | -499.6959 | 0.0000 |
| Beam 9: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 354.2084 | 12.2961 | -682.3218 | 0.0000 |
| Beam 9: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 371.8136 | -11.0250 | -622.4551 | 0.0000 |
| Beam 9: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 349.1015 | -242.5134 | -505.8985 | 0.0000 |
| Beam 9: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 381.8039 | -266.2176 | -472.0476 | 0.0000 |
| Beam 9: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 465.8110 | -47.0006 | -607.9859 | 0.0000 |
| Beam 9: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 345.8603 | -251.2409 | -461.8759 | 0.0000 |
| Beam 9: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 356.1539 | -288.6015 | -456.1675 | 0.0000 |
| Beam 9: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 433.8927 | -228.1522 | -545.0284 | 0.0000 |
| Beam 9: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 217.2506 | -100.6140 | -369.9197 | 0.0000 |
| Beam 9: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 362.9675 | -219.1550 | -491.1344 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 9: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 129.5848 | -105.7184 | -249.7098 | 0.0000 |
| Beam 9: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 331.0118 | -194.7480 | -471.3350 | 0.0000 |
| Beam 9: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 329.3750 | 24.1411 | -638.5929 | 0.0000 |
| Beam 9: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 344.5965 | 13.5102 | -593.8928 | 0.0000 |
| Beam 9: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 321.8844 | -217.9782 | -477.3363 | 0.0000 |
| Beam 9: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 371.1763 | -267.3690 | -492.1898 | 0.0000 |
| Beam 9: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 343.5980 | -241.5204 | -463.8290 | 0.0000 |
| Beam 9: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 203.4813 | -52.9698 | -370.3834 | 0.0000 |
| Beam 9: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 198.0513 | -48.9072 | -364.1958 | 0.0000 |
| Beam 9: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 167.5065 | 72.2145 | -363.1837 | 0.0000 |
| Beam 9: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 162.0765 | 76.2771 | -356.9961 | 0.0000 |
| Beam 9: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 195.7533 | -15.3718 | -356.6793 | 0.0000 |
| Beam 9: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 177.6533 | -1.8298 | -336.0541 | 0.0000 |
| Beam 9: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 184.9609 | 22.1835 | -354.5194 | 0.0000 |
| Beam 9: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 166.8609 | 35.7254 | -333.8942 | 0.0000 |
| Beam 9: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 199.5466 | -48.9141 | -366.5513 | 0.0000 |
| Beam 9: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 194.1166 | -44.8515 | -360.3638 | 0.0000 |
| Beam 9: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 163.5718 | 76.2702 | -359.3516 | 0.0000 |
| Beam 9: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 158.1418 | 80.3328 | -353.1641 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|
| Beam 9: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 191.8187 | -11.3161 | -352.8473 |
| Beam 9: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 173.7187 | 2.2258 | -332.2221 |
| Beam 9: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 181.0262 | 26.2392 | -350.6873 |
| Beam 9: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 162.9262 | 39.7811 | -330.0622 |
| Beam 9: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 270.6505 | 26.9753 | -472.3685 |
| Beam 9: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 290.3214 | -173.4462 | -408.1994 |
| Beam 9: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 308.3345 | -51.0447 | -424.8254 |
| Beam 9: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 256.4759 | 35.1719 | -448.4785 |
| Beam 9: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 275.1006 | -161.3265 | -384.9477 |
| Beam 9: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 292.5958 | -34.8219 | -409.4973 |
| Beam 9: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 317.4732 | -106.5069 | -420.3581 |
| Beam 9: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 298.4537 | -88.6803 | -400.7988 |
| Beam 9: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 147.1336 | -53.8835 | -270.1046 |
| Beam 9: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 294.7357 | -89.4193 | -396.3172 |
| Beam 9: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 279.5201 | -75.1580 | -380.6698 |
| Beam 9: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 492.5312 | 318.0053 | 682.3218 |
| Beam 9: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 492.5312 | 318.0053 | 682.3218 |
| | | | | | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 9: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 203.4813 | 80.3328 | 370.3834 | 0.0000 |
| Beam 9: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 317.4732 | 173.4462 | 472.3685 | 0.0000 |
| Beam 9: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 294.7357 | 89.4193 | 396.3172 | 0.0000 |
| Beam 9: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 147.1336 | 53.8835 | 270.1046 | 0.0000 |
| Beam 9: End 2: 1: PP | 0.0000 | 0.0000 | 110.0722 | 200.1857 | -172.4289 | 0.0000 |
| Beam 9: End 2: 2: PERM | 0.0000 | 0.0000 | 37.4293 | 103.5667 | -65.2880 | 0.0000 |
| Beam 9: End 2: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -11.7631 | 3.4108 | 0.0000 |
| Beam 9: End 2: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 22.6606 | -77.7595 | 0.0000 |
| Beam 9: End 2: 5: SPTW | 0.0000 | 0.0000 | -26.2654 | -132.8850 | 41.9610 | 0.0000 |
| Beam 9: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 93.9786 | -109.0719 | 0.0000 |
| Beam 9: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 76.5277 | -88.8183 | 0.0000 |
| Beam 9: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -13.0190 | 3.8079 | 0.0000 |
| Beam 9: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 22.0125 | -54.3179 | 0.0000 |
| Beam 9: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -10.6453 | 3.1136 | 0.0000 |
| Beam 9: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 18.0036 | -44.4136 | 0.0000 |
| Beam 9: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -36.2992 | 10.9666 | 0.0000 |
| Beam 9: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -34.9785 | 10.5676 | 0.0000 |
| Beam 9: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 9: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -90.2601 | 38.8522 | 0.0000 |
| Beam 9: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 67.3942 | -29.0096 | 0.0000 |
| Beam 9: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 18.2042 | 118.4139 | -53.1424 | 0.0000 |
| Beam 9: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -50.8503 | 26.6541 | 0.0000 |
| Beam 9: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 8.8855 | -10.3126 | 0.0000 |
| Beam 9: End 2: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -13.6292 | 3.9639 | 0.0000 |
| Beam 9: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 25.1236 | -56.5439 | 0.0000 |
| Beam 9: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 357.2907 | 368.3708 | -499.8299 | 0.0000 |
| Beam 9: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 382.0971 | 686.7157 | -636.7750 | 0.0000 |
| Beam 9: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 338.1903 | 340.7387 | -490.6650 | 0.0000 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|---|--------|--------|----------|----------|-----------|--------|
| Beam 9: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 350.2900 | 317.7440 | -483.9498 | 0.0000 |
| Beam 9: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 370.6344 | 463.0354 | -572.8108 | 0.0000 |
| Beam 9: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 184.6666 | 242.0401 | -368.9129 | 0.0000 |
| Beam 9: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 357.1037 | 398.9781 | -518.9168 | 0.0000 |
| Beam 9: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 128.1992 | 112.2606 | -248.7030 | 0.0000 |
| Beam 9: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 324.1999 | 370.0168 | -499.6959 | 0.0000 |
| Beam 9: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 319.8181 | 595.3291 | -682.3218 | 0.0000 |
| Beam 9: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 337.4233 | 602.4649 | -622.4551 | 0.0000 |
| Beam 9: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 314.7112 | 331.6845 | -505.8985 | 0.0000 |
| Beam 9: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 328.7643 | 348.4239 | -472.0476 | 0.0000 |
| Beam 9: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 355.3769 | 663.3269 | -607.9859 | 0.0000 |
| Beam 9: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 311.4701 | 317.3499 | -461.8759 | 0.0000 |
| Beam 9: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 321.7636 | 297.7971 | -456.1675 | 0.0000 |
| Beam 9: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 342.1080 | 443.0884 | -545.0284 | 0.0000 |
| Beam 9: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 182.8604 | 245.4820 | -369.9197 | 0.0000 |
| Beam 9: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 328.5772 | 379.0312 | -491.1344 | 0.0000 |
| Beam 9: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 126.3930 | 115.7025 | -249.7098 | 0.0000 |
| Beam 9: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 296.6216 | 348.1549 | -471.3350 | 0.0000 |
| Beam 9: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 294.9848 | 564.2124 | -638.5929 | 0.0000 |
| Beam 9: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 310.2063 | 579.9146 | -593.8928 | 0.0000 |
| Beam 9: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 287.4942 | 309.1343 | -477.3363 | 0.0000 |
| Beam 9: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 336.7860 | 345.0184 | -492.1898 | 0.0000 |
| Beam 9: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 309.2077 | 323.1565 | -463.8290 | 0.0000 |
| Beam 9: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 181.6401 | 280.1602 | -370.3834 | 0.0000 |
| Beam 9: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 176.2101 | 274.8289 | -364.1958 | 0.0000 |
| Beam 9: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 145.6652 | 343.1081 | -363.1837 | 0.0000 |
| Beam 9: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 140.2352 | 337.7768 | -356.9961 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|----------|-----------|
| Beam 9: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | 173.9121 | 304.3888 | -356.6793 |
| Beam 9: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 155.8121 | 286.6178 | -336.0541 |
| Beam 9: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 163.1196 | 323.2732 | -354.5194 |
| Beam 9: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 145.0196 | 305.5021 | -333.8942 |
| Beam 9: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 177.7054 | 277.4089 | -366.5513 |
| Beam 9: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 172.2754 | 272.0776 | -360.3638 |
| Beam 9: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 141.7306 | 340.3568 | -359.3516 |
| Beam 9: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 136.3006 | 335.0255 | -353.1641 |
| Beam 9: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 169.9774 | 301.6375 | -352.8473 |
| Beam 9: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 151.8774 | 283.8665 | -332.2221 |
| Beam 9: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 159.1850 | 320.5219 | -350.6873 |
| Beam 9: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 141.0850 | 302.7508 | -330.0622 |
| Beam 9: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 209.2268 | 442.0692 | -472.3685 |
| Beam 9: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 228.8977 | 275.6783 | -408.1994 |
| Beam 9: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 246.9108 | 429.2425 | -424.8254 |
| Beam 9: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 195.0523 | 425.7438 | -448.4785 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 9: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 213.6769 | 261.4660 | -384.9477 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 231.1721 | 418.2373 | -409.4973 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 256.0496 | 389.5903 | -420.3581 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 237.0300 | 374.5132 | -400.7988 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 125.2923 | 181.7650 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 233.3120 | 367.3420 | -396.3172 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 218.0964 | 355.2803 | -380.6698 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 382.0971 | 686.7157 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 382.0971 | 686.7157 | 682.3218 | 0.0000 |
| Beam 9: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 181.6401 | 343.1081 | 370.3834 | 0.0000 |
| Beam 9: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 256.0496 | 442.0692 | 472.3685 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 233.3120 | 367.3420 | 396.3172 | |
| 0.0000 | | | | | | |
| Beam 9: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 125.2923 | 181.7650 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 10: End 1: 1: PP | 0.0000 | 0.0000 | 110.0722 | 200.1857 | -172.4289 | 0.0000 |
| Beam 10: End 1: 2: PERM | 0.0000 | 0.0000 | 37.4293 | 103.5667 | -65.2880 | 0.0000 |
| Beam 10: End 1: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -11.7631 | 3.4108 | 0.0000 |
| Beam 10: End 1: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 22.6606 | -77.7595 | 0.0000 |
| Beam 10: End 1: 5: SPTW | 0.0000 | 0.0000 | -26.2654 | -132.8850 | 41.9610 | 0.0000 |
| Beam 10: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 93.9786 | -109.0719 | 0.0000 |
| Beam 10: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 76.5277 | -88.8183 | 0.0000 |
| Beam 10: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -13.0190 | 3.8079 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 10: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 22.0125 | -54.3179 | 0.0000 |
| Beam 10: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -10.6453 | 3.1136 | 0.0000 |
| Beam 10: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 18.0036 | -44.4136 | 0.0000 |
| Beam 10: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -36.2992 | 10.9666 | 0.0000 |
| Beam 10: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -34.9785 | 10.5676 | 0.0000 |
| Beam 10: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 10: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -90.2601 | 38.8522 | 0.0000 |
| Beam 10: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 67.3942 | -29.0096 | 0.0000 |
| Beam 10: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 18.2042 | 118.4139 | -53.1424 | 0.0000 |
| Beam 10: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -50.8503 | 26.6541 | 0.0000 |
| Beam 10: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 8.8855 | -10.3126 | 0.0000 |
| Beam 10: End 1: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -13.6292 | 3.9639 | 0.0000 |
| Beam 10: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 25.1236 | -56.5439 | 0.0000 |
| Beam 10: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 357.2907 | 368.3708 | -499.8299 | 0.0000 |
| Beam 10: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 382.0971 | 686.7157 | -636.7750 | 0.0000 |
| Beam 10: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 338.1903 | 340.7387 | -490.6650 | 0.0000 |
| Beam 10: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 350.2900 | 317.7440 | -483.9498 | 0.0000 |
| Beam 10: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 370.6344 | 463.0354 | -572.8108 | 0.0000 |
| Beam 10: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 184.6666 | 242.0401 | -368.9129 | 0.0000 |
| Beam 10: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 357.1037 | 398.9781 | -518.9168 | 0.0000 |
| Beam 10: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 128.1992 | 112.2606 | -248.7030 | 0.0000 |
| Beam 10: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 324.1999 | 370.0168 | -499.6959 | 0.0000 |
| Beam 10: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 319.8181 | 595.3291 | -682.3218 | 0.0000 |
| Beam 10: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 337.4233 | 602.4649 | -622.4551 | 0.0000 |
| Beam 10: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 314.7112 | 331.6845 | -505.8985 | 0.0000 |
| Beam 10: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 328.7643 | 348.4239 | -472.0476 | 0.0000 |
| Beam 10: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 355.3769 | 663.3269 | -607.9859 | 0.0000 |
| Beam 10: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 311.4701 | 317.3499 | -461.8759 | 0.0000 |
| Beam 10: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 321.7636 | 297.7971 | -456.1675 | 0.0000 |
| Beam 10: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 342.1080 | 443.0884 | -545.0284 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

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|--|--------|--------|----------|----------|-----------|--------|
| Beam 10: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 182.8604 | 245.4820 | -369.9197 | 0.0000 |
| Beam 10: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 328.5772 | 379.0312 | -491.1344 | 0.0000 |
| Beam 10: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 126.3930 | 115.7025 | -249.7098 | 0.0000 |
| Beam 10: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 296.6216 | 348.1549 | -471.3350 | 0.0000 |
| Beam 10: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 294.9848 | 564.2124 | -638.5929 | 0.0000 |
| Beam 10: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 310.2063 | 579.9146 | -593.8928 | 0.0000 |
| Beam 10: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 287.4942 | 309.1343 | -477.3363 | 0.0000 |
| Beam 10: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 336.7860 | 345.0184 | -492.1898 | 0.0000 |
| Beam 10: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 309.2077 | 323.1565 | -463.8290 | 0.0000 |
| Beam 10: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 181.6401 | 280.1602 | -370.3834 | 0.0000 |
| Beam 10: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 176.2101 | 274.8289 | -364.1958 | 0.0000 |
| Beam 10: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 145.6652 | 343.1081 | -363.1837 | 0.0000 |
| Beam 10: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 140.2352 | 337.7768 | -356.9961 | 0.0000 |
| Beam 10: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 173.9121 | 304.3888 | -356.6793 | 0.0000 |
| Beam 10: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 155.8121 | 286.6178 | -336.0541 | 0.0000 |
| Beam 10: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 163.1196 | 323.2732 | -354.5194 | 0.0000 |
| Beam 10: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 145.0196 | 305.5021 | -333.8942 | 0.0000 |
| Beam 10: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 177.7054 | 277.4089 | -366.5513 | 0.0000 |
| Beam 10: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 172.2754 | 272.0776 | -360.3638 | 0.0000 |
| Beam 10: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 141.7306 | 340.3568 | -359.3516 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 10: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 136.3006 | 335.0255 | -353.1641 |
| Beam 10: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 169.9774 | 301.6375 | -352.8473 |
| Beam 10: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 151.8774 | 283.8665 | -332.2221 |
| Beam 10: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 159.1850 | 320.5219 | -350.6873 |
| Beam 10: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 141.0850 | 302.7508 | -330.0622 |
| Beam 10: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 209.2268 | 442.0692 | -472.3685 |
| Beam 10: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 228.8977 | 275.6783 | -408.1994 |
| Beam 10: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 246.9108 | 429.2425 | -424.8254 |
| Beam 10: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 195.0523 | 425.7438 | -448.4785 |
| Beam 10: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 213.6769 | 261.4660 | -384.9477 |
| Beam 10: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 231.1721 | 418.2373 | -409.4973 |
| Beam 10: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 256.0496 | 389.5903 | -420.3581 |
| Beam 10: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 237.0300 | 374.5132 | -400.7988 |
| Beam 10: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 125.2923 | 181.7650 | -270.1046 |
| Beam 10: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 233.3120 | 367.3420 | -396.3172 |
| Beam 10: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 218.0964 | 355.2803 | -380.6698 |

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|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 10: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 382.0971 | 686.7157 | 682.3218 | 0.0000 |
| Beam 10: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 382.0971 | 686.7157 | 682.3218 | 0.0000 |
| Beam 10: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 181.6401 | 343.1081 | 370.3834 | 0.0000 |
| Beam 10: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 256.0496 | 442.0692 | 472.3685 | 0.0000 |
| Beam 10: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 233.3120 | 367.3420 | 396.3172 | 0.0000 |
| Beam 10: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 125.2923 | 181.7650 | 270.1046 | 0.0000 |
| Beam 10: End 2: 1: PP | 0.0000 | 0.0000 | 67.8892 | 353.2325 | -172.4289 | 0.0000 |
| Beam 10: End 2: 2: PERM | 0.0000 | 0.0000 | 4.9213 | 139.9883 | -65.2880 | 0.0000 |
| Beam 10: End 2: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -0.9900 | 3.4108 | 0.0000 |
| Beam 10: End 2: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 18.8642 | -77.7595 | 0.0000 |
| Beam 10: End 2: 5: SPTW | 0.0000 | 0.0000 | 26.7106 | -132.5021 | 41.9610 | 0.0000 |
| Beam 10: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 258.6134 | -109.0719 | 0.0000 |
| Beam 10: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 210.5915 | -88.8183 | 0.0000 |
| Beam 10: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -1.2666 | 3.8079 | 0.0000 |
| Beam 10: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 15.9193 | -54.3179 | 0.0000 |
| Beam 10: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -1.0354 | 3.1136 | 0.0000 |
| Beam 10: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 13.0240 | -44.4136 | 0.0000 |
| Beam 10: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -5.3868 | 10.9666 | 0.0000 |
| Beam 10: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -5.1908 | 10.5676 | 0.0000 |
| Beam 10: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 10: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -103.2817 | 38.8522 | 0.0000 |
| Beam 10: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 77.1170 | -29.0096 | 0.0000 |
| Beam 10: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -30.9878 | 107.4201 | -53.1424 | 0.0000 |
| Beam 10: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -11.1080 | 26.6541 | 0.0000 |
| Beam 10: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 24.4515 | -10.3126 | 0.0000 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 10: End 2: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -1.2089 | 3.9639 | 0.0000 | |
| Beam 10: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -3.0160 | 19.9361 | -56.5439 | 0.0000 | |
| Beam 10: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 304.5577 | 937.5604 | -499.8299 | 0.0000 | |
| Beam 10: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 272.3013 | 1249.4983 | -636.7750 | 0.0000 | |
| Beam 10: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 303.9988 | 893.0214 | -490.6650 | 0.0000 | |
| Beam 10: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 316.0986 | 890.8382 | -483.9498 | 0.0000 | |
| Beam 10: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 279.3803 | 1022.0480 | -572.8108 | 0.0000 | |
| Beam 10: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 150.4752 | 530.2620 | -368.9129 | 0.0000 | |
| Beam 10: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 322.9122 | 983.7918 | -518.9168 | 0.0000 | |
| Beam 10: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 125.0258 | 330.0340 | -248.7030 | 0.0000 | |
| Beam 10: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 290.0084 | 898.2359 | -499.6959 | 0.0000 | |
| Beam 10: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 285.6267 | 1116.0116 | -682.3218 | 0.0000 | |
| Beam 10: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 303.2319 | 1153.4283 | -622.4551 | 0.0000 | |
| Beam 10: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 280.5198 | 843.5832 | -505.8985 | 0.0000 | |
| Beam 10: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 276.0313 | 868.5481 | -472.0476 | 0.0000 | |
| Beam 10: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 245.5811 | 1180.1507 | -607.9859 | 0.0000 | |
| Beam 10: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 277.2786 | 823.6738 | -461.8759 | 0.0000 | |
| Beam 10: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 287.5722 | 821.8259 | -456.1675 | 0.0000 | |
| Beam 10: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 250.8538 | 953.0356 | -545.0284 | 0.0000 | |
| Beam 10: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 148.6690 | 530.5973 | -369.9197 | 0.0000 | |
| Beam 10: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 294.3858 | 914.7794 | -491.1344 | 0.0000 | |
| Beam 10: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 123.2196 | 330.3693 | -249.7098 | 0.0000 | |
| Beam 10: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 262.4301 | 828.9394 | -471.3350 | 0.0000 | |
| Beam 10: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 260.7934 | 1042.1816 | -638.5929 | 0.0000 | |
| Beam 10: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 276.0148 | 1084.0648 | -593.8928 | 0.0000 | |
| Beam 10: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 253.3027 | 774.2196 | -477.3363 | 0.0000 | |
| Beam 10: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 302.5946 | 894.8857 | -492.1898 | 0.0000 | |
| Beam 10: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 275.0163 | 825.5892 | -463.8290 | 0.0000 | |
| Beam 10: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 159.9251 | 573.9063 | -370.3834 | 0.0000 | |

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|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|-----------|
| Beam 10: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | 154.4951 | 559.2353 | -364.1958 |
| Beam 10: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | 123.9502 | 574.9774 | -363.1837 |
| Beam 10: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | 118.5202 | 560.3065 | -356.9961 |
| Beam 10: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | 152.1971 | 584.8427 | -356.6793 |
| Beam 10: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 134.0971 | 535.9397 | -336.0541 |
| Beam 10: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 141.4046 | 585.1641 | -354.5194 |
| Beam 10: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 123.3046 | 536.2610 | -333.8942 |
| Beam 10: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 155.9904 | 564.3873 | -366.5513 |
| Beam 10: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 150.5604 | 549.7164 | -360.3638 |
| Beam 10: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 120.0156 | 565.4584 | -359.3516 |
| Beam 10: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 114.5856 | 550.7875 | -353.1641 |
| Beam 10: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 148.2624 | 575.3238 | -352.8473 |
| Beam 10: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 130.1624 | 526.4207 | -332.2221 |
| Beam 10: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 137.4700 | 575.6451 | -350.6873 |
| Beam 10: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 119.3700 | 526.7421 | -330.0622 |
| Beam 10: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 148.1582 | 749.4203 | -472.3685 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|-----------|
| Beam 10: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 167.8291 | 616.8634 | -408.1994 |
| Beam 10: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 185.8422 | 801.4102 | -424.8254 |
| Beam 10: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 133.9837 | 708.7147 | -448.4785 |
| Beam 10: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 152.6083 | 576.4713 | -384.9477 |
| Beam 10: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 170.1035 | 763.3344 | -409.4973 |
| Beam 10: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 194.9810 | 777.4766 | -420.3581 |
| Beam 10: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 175.9614 | 729.6858 | -400.7988 |
| Beam 10: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 103.5773 | 378.5929 | -270.1046 |
| Beam 10: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 172.2434 | 716.1197 | -396.3172 |
| Beam 10: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 157.0278 | 677.8871 | -380.6698 |
| Beam 10: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 322.9122 | 1249.4983 | 682.3218 |
| Beam 10: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 322.9122 | 1249.4983 | 682.3218 |
| Beam 10: End 2: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 159.9251 | 585.1641 | 370.3834 |
| Beam 10: End 2: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 194.9810 | 801.4102 | 472.3685 |
| Beam 10: End 2: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 172.2434 | 716.1197 | 396.3172 |
| Beam 10: End 2: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 103.5773 | 378.5929 | 270.1046 |
| Beam 11: End 1: 1: PP | 0.0000 | 0.0000 | 67.8892 | 353.2325 | -172.4289 |
| | | | | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSLO900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 11: End 1: 2: PERM | 0.0000 | 0.0000 | 4.9213 | 139.9883 | -65.2880 | 0.0000 | |
| Beam 11: End 1: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | -0.9900 | 3.4108 | 0.0000 | |
| Beam 11: End 1: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 18.8642 | -77.7595 | 0.0000 | |
| Beam 11: End 1: 5: SPTW | 0.0000 | 0.0000 | 26.7106 | -132.5021 | 41.9610 | 0.0000 | |
| Beam 11: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 258.6134 | -109.0719 | 0.0000 | |
| Beam 11: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 210.5915 | -88.8183 | 0.0000 | |
| Beam 11: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | -1.2666 | 3.8079 | 0.0000 | |
| Beam 11: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 15.9193 | -54.3179 | 0.0000 | |
| Beam 11: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | -1.0354 | 3.1136 | 0.0000 | |
| Beam 11: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 13.0240 | -44.4136 | 0.0000 | |
| Beam 11: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -5.3868 | 10.9666 | 0.0000 | |
| Beam 11: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -5.1908 | 10.5676 | 0.0000 | |
| Beam 11: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 11: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -103.2817 | 38.8522 | 0.0000 | |
| Beam 11: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 77.1170 | -29.0096 | 0.0000 | |
| Beam 11: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -30.9878 | 107.4201 | -53.1424 | 0.0000 | |
| Beam 11: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -11.1080 | 26.6541 | 0.0000 | |
| Beam 11: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 24.4515 | -10.3126 | 0.0000 | |
| Beam 11: End 1: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | -1.2089 | 3.9639 | 0.0000 | |
| Beam 11: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -3.0160 | 19.9361 | -56.5439 | 0.0000 | |
| Beam 11: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 304.5577 | 937.5604 | -499.8299 | 0.0000 | |
| Beam 11: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 272.3013 | 1249.4983 | -636.7750 | 0.0000 | |
| Beam 11: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 303.9988 | 893.0214 | -490.6650 | 0.0000 | |
| Beam 11: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 316.0986 | 890.8382 | -483.9498 | 0.0000 | |
| Beam 11: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 279.3803 | 1022.0480 | -572.8108 | 0.0000 | |
| Beam 11: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 150.4752 | 530.2620 | -368.9129 | 0.0000 | |
| Beam 11: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 322.9122 | 983.7918 | -518.9168 | 0.0000 | |
| Beam 11: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 125.0258 | 330.0340 | -248.7030 | 0.0000 | |
| Beam 11: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 290.0084 | 898.2359 | -499.6959 | 0.0000 | |
| Beam 11: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 285.6267 | 1116.0116 | -682.3218 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 11: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 303.2319 | 1153.4283 | -622.4551 | 0.0000 |
| Beam 11: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 280.5198 | 843.5832 | -505.8985 | 0.0000 |
| Beam 11: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 276.0313 | 868.5481 | -472.0476 | 0.0000 |
| Beam 11: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 245.5811 | 1180.1507 | -607.9859 | 0.0000 |
| Beam 11: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 277.2786 | 823.6738 | -461.8759 | 0.0000 |
| Beam 11: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 287.5722 | 821.8259 | -456.1675 | 0.0000 |
| Beam 11: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 250.8538 | 953.0356 | -545.0284 | 0.0000 |
| Beam 11: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 148.6690 | 530.5973 | -369.9197 | 0.0000 |
| Beam 11: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 294.3858 | 914.7794 | -491.1344 | 0.0000 |
| Beam 11: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 123.2196 | 330.3693 | -249.7098 | 0.0000 |
| Beam 11: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 262.4301 | 828.9394 | -471.3350 | 0.0000 |
| Beam 11: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 260.7934 | 1042.1816 | -638.5929 | 0.0000 |
| Beam 11: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 276.0148 | 1084.0648 | -593.8928 | 0.0000 |
| Beam 11: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 253.3027 | 774.2196 | -477.3363 | 0.0000 |
| Beam 11: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 302.5946 | 894.8857 | -492.1898 | 0.0000 |
| Beam 11: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 275.0163 | 825.5892 | -463.8290 | 0.0000 |
| Beam 11: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 159.9251 | 573.9063 | -370.3834 | 0.0000 |
| Beam 11: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 154.4951 | 559.2353 | -364.1958 | 0.0000 |
| Beam 11: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 123.9502 | 574.9774 | -363.1837 | 0.0000 |
| Beam 11: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 118.5202 | 560.3065 | -356.9961 | 0.0000 |
| Beam 11: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 152.1971 | 584.8427 | -356.6793 | 0.0000 |
| Beam 11: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 134.0971 | 535.9397 | -336.0541 | 0.0000 |
| Beam 11: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 141.4046 | 585.1641 | -354.5194 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|
| Beam 11: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 123.3046 | 536.2610 | -333.8942 |
| Beam 11: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 155.9904 | 564.3873 | -366.5513 |
| Beam 11: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 150.5604 | 549.7164 | -360.3638 |
| Beam 11: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 120.0156 | 565.4584 | -359.3516 |
| Beam 11: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 114.5856 | 550.7875 | -353.1641 |
| Beam 11: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 148.2624 | 575.3238 | -352.8473 |
| Beam 11: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 130.1624 | 526.4207 | -332.2221 |
| Beam 11: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 137.4700 | 575.6451 | -350.6873 |
| Beam 11: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 119.3700 | 526.7421 | -330.0622 |
| Beam 11: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 148.1582 | 749.4203 | -472.3685 |
| Beam 11: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 167.8291 | 616.8634 | -408.1994 |
| Beam 11: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 185.8422 | 801.4102 | -424.8254 |
| Beam 11: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 133.9837 | 708.7147 | -448.4785 |
| Beam 11: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 152.6083 | 576.4713 | -384.9477 |
| Beam 11: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 170.1035 | 763.3344 | -409.4973 |
| Beam 11: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 194.9810 | 777.4766 | -420.3581 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 11: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 175.9614 | 729.6858 | -400.7988 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 103.5773 | 378.5929 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 172.2434 | 716.1197 | -396.3172 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 157.0278 | 677.8871 | -380.6698 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 322.9122 | 1249.4983 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 322.9122 | 1249.4983 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 159.9251 | 585.1641 | 370.3834 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 194.9810 | 801.4102 | 472.3685 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 172.2434 | 716.1197 | 396.3172 | |
| 0.0000 | | | | | | |
| Beam 11: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 103.5773 | 378.5929 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 11: End 2: 1: PP | 0.0000 | 0.0000 | 61.7580 | 369.4384 | -172.4289 | 0.0000 |
| Beam 11: End 2: 2: PERM | 0.0000 | 0.0000 | 0.1963 | 140.6280 | -65.2880 | 0.0000 |
| Beam 11: End 2: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | 0.5758 | 3.4108 | 0.0000 |
| Beam 11: End 2: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 18.3124 | -77.7595 | 0.0000 |
| Beam 11: End 2: 5: SPTW | 0.0000 | 0.0000 | 34.4106 | -124.8619 | 41.9610 | 0.0000 |
| Beam 11: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 282.5429 | -109.0719 | 0.0000 |
| Beam 11: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 230.0775 | -88.8183 | 0.0000 |
| Beam 11: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | 0.4416 | 3.8079 | 0.0000 |
| Beam 11: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 15.0336 | -54.3179 | 0.0000 |
| Beam 11: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | 0.3613 | 3.1136 | 0.0000 |
| Beam 11: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 12.3002 | -44.4136 | 0.0000 |
| Beam 11: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -0.8937 | 10.9666 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 11: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -0.8612 | 10.5676 | 0.0000 | |
| Beam 11: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 11: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -105.1744 | 38.8522 | 0.0000 | |
| Beam 11: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 78.5302 | -29.0096 | 0.0000 | |
| Beam 11: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -38.1378 | 98.7794 | -53.1424 | 0.0000 | |
| Beam 11: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -5.3315 | 26.6541 | 0.0000 | |
| Beam 11: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 26.7140 | -10.3126 | 0.0000 | |
| Beam 11: End 2: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | 0.5964 | 3.9639 | 0.0000 | |
| Beam 11: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 19.1821 | -56.5439 | 0.0000 | |
| Beam 11: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 296.8930 | 1012.7418 | -499.8299 | 0.0000 | |
| Beam 11: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 256.3426 | 1315.5788 | -636.7750 | 0.0000 | |
| Beam 11: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 299.0292 | 968.3999 | -490.6650 | 0.0000 | |
| Beam 11: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 311.1289 | 969.2417 | -483.9498 | 0.0000 | |
| Beam 11: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 266.1166 | 1090.2351 | -572.8108 | 0.0000 | |
| Beam 11: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 145.5055 | 567.2596 | -368.9129 | 0.0000 | |
| Beam 11: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 317.9425 | 1063.8986 | -518.9168 | 0.0000 | |
| Beam 11: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 124.5645 | 361.2328 | -248.7030 | 0.0000 | |
| Beam 11: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 285.0387 | 970.1168 | -499.6959 | 0.0000 | |
| Beam 11: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 280.6570 | 1186.7970 | -682.3218 | 0.0000 | |
| Beam 11: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 298.2622 | 1228.6151 | -622.4551 | 0.0000 | |
| Beam 11: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 275.5501 | 913.0919 | -505.8985 | 0.0000 | |
| Beam 11: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 268.3666 | 936.5978 | -472.0476 | 0.0000 | |
| Beam 11: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 229.6224 | 1239.5512 | -607.9859 | 0.0000 | |
| Beam 11: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 272.3089 | 892.3722 | -461.8759 | 0.0000 | |
| Beam 11: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 282.6025 | 893.0977 | -456.1675 | 0.0000 | |
| Beam 11: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 237.5901 | 1014.0911 | -545.0284 | 0.0000 | |
| Beam 11: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 143.6993 | 567.1433 | -369.9197 | 0.0000 | |
| Beam 11: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 289.4161 | 987.7546 | -491.1344 | 0.0000 | |
| Beam 11: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 122.7583 | 361.1165 | -249.7098 | 0.0000 | |
| Beam 11: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 257.4604 | 893.9257 | -471.3350 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 11: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 255.8237 | 1106.7587 | -638.5929 | 0.0000 |
| Beam 11: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 271.0451 | 1152.4473 | -593.8928 | 0.0000 |
| Beam 11: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 248.3330 | 836.9241 | -477.3363 | 0.0000 |
| Beam 11: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 297.6249 | 969.9132 | -492.1898 | 0.0000 |
| Beam 11: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 270.0466 | 893.7220 | -463.8290 | 0.0000 |
| Beam 11: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 156.7688 | 613.4930 | -370.3834 | 0.0000 |
| Beam 11: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 151.3388 | 597.4646 | -364.1958 | 0.0000 |
| Beam 11: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 120.7940 | 605.5704 | -363.1837 | 0.0000 |
| Beam 11: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 115.3640 | 589.5420 | -356.9961 | 0.0000 |
| Beam 11: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 149.0408 | 622.4975 | -356.6793 | 0.0000 |
| Beam 11: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 130.9408 | 569.0694 | -336.0541 | 0.0000 |
| Beam 11: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 138.2484 | 620.1207 | -354.5194 | 0.0000 |
| Beam 11: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 120.1484 | 566.6926 | -333.8942 | 0.0000 |
| Beam 11: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 152.8341 | 602.9904 | -366.5513 | 0.0000 |
| Beam 11: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 147.4041 | 586.9620 | -360.3638 | 0.0000 |
| Beam 11: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 116.8593 | 595.0678 | -359.3516 | 0.0000 |
| Beam 11: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 111.4293 | 579.0394 | -353.1641 | 0.0000 |
| Beam 11: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 145.1062 | 611.9948 | -352.8473 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 11: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 127.0062 | 558.5668 | -332.2221 |
| Beam 11: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 134.3137 | 609.6181 | -350.6873 |
| Beam 11: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 116.2137 | 556.1900 | -330.0622 |
| Beam 11: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 139.2820 | 785.3503 | -472.3685 |
| Beam 11: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 158.9529 | 657.7111 | -408.1994 |
| Beam 11: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 176.9660 | 846.7612 | -424.8254 |
| Beam 11: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 125.1074 | 741.1010 | -448.4785 |
| Beam 11: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 143.7321 | 613.5139 | -384.9477 |
| Beam 11: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 161.2273 | 804.7508 | -409.4973 |
| Beam 11: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 186.1047 | 825.1123 | -420.3581 |
| Beam 11: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 167.0852 | 772.5667 | -400.7988 |
| Beam 11: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 100.4211 | 404.0927 | -270.1046 |
| Beam 11: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 163.3672 | 758.0710 | -396.3172 |
| Beam 11: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 148.1516 | 716.0346 | -380.6698 |
| Beam 11: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 317.9425 | 1315.5788 | 682.3218 |
| Beam 11: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 317.9425 | 1315.5788 | 682.3218 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 11: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 156.7688 | 622.4975 | 370.3834 | | |
| 0.0000 | | | | | | | |
| Beam 11: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 186.1047 | 846.7612 | 472.3685 | | |
| 0.0000 | | | | | | | |
| Beam 11: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 163.3672 | 758.0710 | 396.3172 | | |
| 0.0000 | | | | | | | |
| Beam 11: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 100.4211 | 404.0927 | 270.1046 | | |
| 0.0000 | | | | | | | |
| Beam 12: End 1: 1: PP | 0.0000 | 0.0000 | 61.7580 | 369.4384 | -172.4289 | 0.0000 | |
| Beam 12: End 1: 2: PERM | 0.0000 | 0.0000 | 0.1963 | 140.6280 | -65.2880 | 0.0000 | |
| Beam 12: End 1: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | 0.5758 | 3.4108 | 0.0000 | |
| Beam 12: End 1: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 18.3124 | -77.7595 | 0.0000 | |
| Beam 12: End 1: 5: SPTW | 0.0000 | 0.0000 | 34.4106 | -124.8619 | 41.9610 | 0.0000 | |
| Beam 12: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 282.5429 | -109.0719 | 0.0000 | |
| Beam 12: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 230.0775 | -88.8183 | 0.0000 | |
| Beam 12: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | 0.4416 | 3.8079 | 0.0000 | |
| Beam 12: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 15.0336 | -54.3179 | 0.0000 | |
| Beam 12: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | 0.3613 | 3.1136 | 0.0000 | |
| Beam 12: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 12.3002 | -44.4136 | 0.0000 | |
| Beam 12: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | -0.8937 | 10.9666 | 0.0000 | |
| Beam 12: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | -0.8612 | 10.5676 | 0.0000 | |
| Beam 12: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 12: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -105.1744 | 38.8522 | 0.0000 | |
| Beam 12: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 78.5302 | -29.0096 | 0.0000 | |
| Beam 12: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -38.1378 | 98.7794 | -53.1424 | 0.0000 | |
| Beam 12: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | -5.3315 | 26.6541 | 0.0000 | |
| Beam 12: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 26.7140 | -10.3126 | 0.0000 | |
| Beam 12: End 1: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | 0.5964 | 3.9639 | 0.0000 | |
| Beam 12: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 19.1821 | -56.5439 | 0.0000 | |
| Beam 12: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 296.8930 | 1012.7418 | -499.8299 | 0.0000 | |
| Beam 12: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 256.3426 | 1315.5788 | -636.7750 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 12: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 299.0292 | 968.3999 | -490.6650 | 0.0000 |
| Beam 12: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 311.1289 | 969.2417 | -483.9498 | 0.0000 |
| Beam 12: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 266.1166 | 1090.2351 | -572.8108 | 0.0000 |
| Beam 12: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 145.5055 | 567.2596 | -368.9129 | 0.0000 |
| Beam 12: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 317.9425 | 1063.8986 | -518.9168 | 0.0000 |
| Beam 12: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 124.5645 | 361.2328 | -248.7030 | 0.0000 |
| Beam 12: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 285.0387 | 970.1168 | -499.6959 | 0.0000 |
| Beam 12: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 280.6570 | 1186.7970 | -682.3218 | 0.0000 |
| Beam 12: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 298.2622 | 1228.6151 | -622.4551 | 0.0000 |
| Beam 12: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 275.5501 | 913.0919 | -505.8985 | 0.0000 |
| Beam 12: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 268.3666 | 936.5978 | -472.0476 | 0.0000 |
| Beam 12: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 229.6224 | 1239.5512 | -607.9859 | 0.0000 |
| Beam 12: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 272.3089 | 892.3722 | -461.8759 | 0.0000 |
| Beam 12: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 282.6025 | 893.0977 | -456.1675 | 0.0000 |
| Beam 12: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 237.5901 | 1014.0911 | -545.0284 | 0.0000 |
| Beam 12: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 143.6993 | 567.1433 | -369.9197 | 0.0000 |
| Beam 12: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 289.4161 | 987.7546 | -491.1344 | 0.0000 |
| Beam 12: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 122.7583 | 361.1165 | -249.7098 | 0.0000 |
| Beam 12: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 257.4604 | 893.9257 | -471.3350 | 0.0000 |
| Beam 12: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 255.8237 | 1106.7587 | -638.5929 | 0.0000 |
| Beam 12: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 271.0451 | 1152.4473 | -593.8928 | 0.0000 |
| Beam 12: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 248.3330 | 836.9241 | -477.3363 | 0.0000 |
| Beam 12: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 297.6249 | 969.9132 | -492.1898 | 0.0000 |
| Beam 12: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 270.0466 | 893.7220 | -463.8290 | 0.0000 |
| Beam 12: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 156.7688 | 613.4930 | -370.3834 | 0.0000 |
| Beam 12: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 151.3388 | 597.4646 | -364.1958 | 0.0000 |
| Beam 12: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 120.7940 | 605.5704 | -363.1837 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|
| Beam 12: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 115.3640 | 589.5420 | -356.9961 |
| 0.0000 | | | | | |
| Beam 12: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 149.0408 | 622.4975 | -356.6793 |
| 0.0000 | | | | | |
| Beam 12: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 130.9408 | 569.0694 | -336.0541 |
| 0.0000 | | | | | |
| Beam 12: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 138.2484 | 620.1207 | -354.5194 |
| 0.0000 | | | | | |
| Beam 12: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 120.1484 | 566.6926 | -333.8942 |
| 0.0000 | | | | | |
| Beam 12: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 152.8341 | 602.9904 | -366.5513 |
| 0.0000 | | | | | |
| Beam 12: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 147.4041 | 586.9620 | -360.3638 |
| 0.0000 | | | | | |
| Beam 12: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 116.8593 | 595.0678 | -359.3516 |
| 0.0000 | | | | | |
| Beam 12: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 111.4293 | 579.0394 | -353.1641 |
| 0.0000 | | | | | |
| Beam 12: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 145.1062 | 611.9948 | -352.8473 |
| 0.0000 | | | | | |
| Beam 12: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 127.0062 | 558.5668 | -332.2221 |
| 0.0000 | | | | | |
| Beam 12: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 134.3137 | 609.6181 | -350.6873 |
| 0.0000 | | | | | |
| Beam 12: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 116.2137 | 556.1900 | -330.0622 |
| 0.0000 | | | | | |
| Beam 12: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 139.2820 | 785.3503 | -472.3685 |
| 0.0000 | | | | | |
| Beam 12: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 158.9529 | 657.7111 | -408.1994 |
| 0.0000 | | | | | |
| Beam 12: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 176.9660 | 846.7612 | -424.8254 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 12: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 125.1074 | 741.1010 | -448.4785 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 143.7321 | 613.5139 | -384.9477 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 161.2273 | 804.7508 | -409.4973 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 186.1047 | 825.1123 | -420.3581 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 167.0852 | 772.5667 | -400.7988 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 100.4211 | 404.0927 | -270.1046 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 163.3672 | 758.0710 | -396.3172 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 148.1516 | 716.0346 | -380.6698 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 317.9425 | 1315.5788 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 317.9425 | 1315.5788 | 682.3218 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 156.7688 | 622.4975 | 370.3834 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 186.1047 | 846.7612 | 472.3685 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 163.3672 | 758.0710 | 396.3172 | |
| 0.0000 | | | | | | |
| Beam 12: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 100.4211 | 404.0927 | 270.1046 | |
| 0.0000 | | | | | | |
| Beam 12: End 2: 1: PP | 0.0000 | 0.0000 | 55.6267 | 384.1115 | -172.4289 | 0.0000 |
| Beam 12: End 2: 2: PERM | 0.0000 | 0.0000 | -4.5287 | 140.0864 | -65.2880 | 0.0000 |
| Beam 12: End 2: 3: SPTSX | 0.0000 | 0.0000 | 6.2634 | 2.1417 | 3.4108 | 0.0000 |
| Beam 12: End 2: 4: SPTDX | 0.0000 | 0.0000 | -2.2072 | 17.7606 | -77.7595 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 12: End 2: 5: SPTW | 0.0000 | 0.0000 | 42.1106 | -115.2968 | 41.9610 | 0.0000 | |
| Beam 12: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 306.4724 | -109.0719 | 0.0000 | |
| Beam 12: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 249.5636 | -88.8183 | 0.0000 | |
| Beam 12: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 6.8328 | 2.1498 | 3.8079 | 0.0000 | |
| Beam 12: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.5426 | 14.1480 | -54.3179 | 0.0000 | |
| Beam 12: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 5.5871 | 1.7581 | 3.1136 | 0.0000 | |
| Beam 12: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -2.8951 | 11.5764 | -44.4136 | 0.0000 | |
| Beam 12: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 17.9723 | 3.5994 | 10.9666 | 0.0000 | |
| Beam 12: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 17.3185 | 3.4684 | 10.5676 | 0.0000 | |
| Beam 12: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 12: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -107.0671 | 38.8522 | 0.0000 | |
| Beam 12: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 79.9434 | -29.0096 | 0.0000 | |
| Beam 12: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 88.3512 | -53.1424 | 0.0000 | |
| Beam 12: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.1060 | 0.4449 | 26.6541 | 0.0000 | |
| Beam 12: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 28.9765 | -10.3126 | 0.0000 | |
| Beam 12: End 2: 20: SPSSX | 0.0000 | 0.0000 | 7.2211 | 2.4017 | 3.9639 | 0.0000 | |
| Beam 12: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.0160 | 18.4281 | -56.5439 | 0.0000 | |
| Beam 12: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 289.2283 | 1086.0069 | -499.8299 | 0.0000 | |
| Beam 12: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 240.3839 | 1377.6696 | -636.7750 | 0.0000 | |
| Beam 12: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 294.0595 | 1042.5359 | -490.6650 | 0.0000 | |
| Beam 12: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 306.1592 | 1046.4027 | -483.9498 | 0.0000 | |
| Beam 12: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 252.8529 | 1155.1063 | -572.8108 | 0.0000 | |
| Beam 12: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 140.5358 | 603.0148 | -368.9129 | 0.0000 | |
| Beam 12: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 312.9728 | 1142.7630 | -518.9168 | 0.0000 | |
| Beam 12: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 124.1033 | 392.3163 | -248.7030 | 0.0000 | |
| Beam 12: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 280.0690 | 1040.7553 | -499.6959 | 0.0000 | |
| Beam 12: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 275.6873 | 1256.3401 | -682.3218 | 0.0000 | |
| Beam 12: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 293.2925 | 1302.5594 | -622.4551 | 0.0000 | |
| Beam 12: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 270.5804 | 981.3582 | -505.8985 | 0.0000 | |
| Beam 12: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 260.7019 | 1002.7314 | -472.0476 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 12: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 213.6637 | 1294.9619 | -607.9859 | 0.0000 |
| Beam 12: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 267.3392 | 959.8282 | -461.8759 | 0.0000 |
| Beam 12: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 277.6328 | 963.1271 | -456.1675 | 0.0000 |
| Beam 12: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 224.3265 | 1071.8307 | -545.0284 | 0.0000 |
| Beam 12: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 138.7296 | 602.4469 | -369.9197 | 0.0000 |
| Beam 12: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 284.4464 | 1059.4875 | -491.1344 | 0.0000 |
| Beam 12: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 122.2971 | 391.7485 | -249.7098 | 0.0000 |
| Beam 12: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 252.4908 | 957.6696 | -471.3350 | 0.0000 |
| Beam 12: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 250.8540 | 1170.0934 | -638.5929 | 0.0000 |
| Beam 12: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 266.0754 | 1219.5873 | -593.8928 | 0.0000 |
| Beam 12: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 243.3633 | 898.3861 | -477.3363 | 0.0000 |
| Beam 12: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 292.6552 | 1043.6982 | -492.1898 | 0.0000 |
| Beam 12: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 265.0769 | 960.6125 | -463.8290 | 0.0000 |
| Beam 12: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 153.6126 | 652.2907 | -370.3834 | 0.0000 |
| Beam 12: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 148.1826 | 634.9048 | -364.1958 | 0.0000 |
| Beam 12: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 117.6377 | 635.3744 | -363.1837 | 0.0000 |
| Beam 12: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 112.2077 | 617.9885 | -356.9961 | 0.0000 |
| Beam 12: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 145.8846 | 659.3631 | -356.6793 | 0.0000 |
| Beam 12: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 127.7846 | 601.4101 | -336.0541 | 0.0000 |
| Beam 12: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 135.0921 | 654.2882 | -354.5194 | 0.0000 |
| Beam 12: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 116.9921 | 596.3352 | -333.8942 | 0.0000 |
| Beam 12: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 149.6779 | 640.8044 | -366.5513 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 12: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 144.2479 | 623.4185 | -360.3638 |
| Beam 12: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 113.7031 | 623.8881 | -359.3516 |
| Beam 12: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 108.2731 | 606.5022 | -353.1641 |
| Beam 12: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 141.9499 | 647.8768 | -352.8473 |
| Beam 12: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 123.8499 | 589.9238 | -332.2221 |
| Beam 12: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 131.1575 | 642.8020 | -350.6873 |
| Beam 12: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 113.0575 | 584.8489 | -330.0622 |
| Beam 12: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 130.4057 | 819.0613 | -472.3685 |
| Beam 12: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 150.0766 | 696.3398 | -408.1994 |
| Beam 12: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 168.0897 | 889.8932 | -424.8254 |
| Beam 12: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 116.2312 | 771.2684 | -448.4785 |
| Beam 12: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 134.8558 | 648.3374 | -384.9477 |
| Beam 12: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 152.3510 | 843.9480 | -409.4973 |
| Beam 12: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 177.2285 | 870.5289 | -420.3581 |
| Beam 12: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 158.2089 | 813.2284 | -400.7988 |
| Beam 12: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 97.2648 | 428.8035 | -270.1046 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 12: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 154.4909 | 797.8033 | -396.3172 | 0.0000 |
| Beam 12: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 139.2753 | 751.9629 | -380.6698 | 0.0000 |
| Beam 12: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 312.9728 | 1377.6696 | 682.3218 | 0.0000 |
| Beam 12: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 312.9728 | 1377.6696 | 682.3218 | 0.0000 |
| Beam 12: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 153.6126 | 659.3631 | 370.3834 | 0.0000 |
| Beam 12: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 177.2285 | 889.8932 | 472.3685 | 0.0000 |
| Beam 12: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 154.4909 | 797.8033 | 396.3172 | 0.0000 |
| Beam 12: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 97.2648 | 428.8035 | 270.1046 | 0.0000 |
| Beam 13: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | -384.1115 | -55.6267 | 0.0000 |
| Beam 13: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -140.0864 | 4.5287 | 0.0000 |
| Beam 13: End 1: 3: SPTSX | 0.0000 | 0.0000 | 61.1595 | -17.7606 | 2.2072 | 0.0000 |
| Beam 13: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -2.1417 | -6.2634 | 0.0000 |
| Beam 13: End 1: 5: SPTW | 0.0000 | 0.0000 | -41.9610 | 115.2968 | -57.5106 | 0.0000 |
| Beam 13: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -306.4724 | -95.7180 | 0.0000 |
| Beam 13: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -249.5636 | -77.9441 | 0.0000 |
| Beam 13: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 44.9479 | -14.1480 | 3.5426 | 0.0000 |
| Beam 13: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -2.1498 | -6.8328 | 0.0000 |
| Beam 13: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 36.7736 | -11.5764 | 2.8951 | 0.0000 |
| Beam 13: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -1.7581 | -5.5871 | 0.0000 |
| Beam 13: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 3.5994 | 17.9723 | 0.0000 |
| Beam 13: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 3.4684 | 17.3185 | 0.0000 |
| Beam 13: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 13: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 107.0671 | 7.5707 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|------------|-----------|--------|--|
| Beam 13: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -79.9434 | -5.6528 | 0.0000 | |
| Beam 13: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -88.3512 | 45.2878 | 0.0000 | |
| Beam 13: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 26.6541 | 0.4449 | 23.1060 | 0.0000 | |
| Beam 13: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -28.9765 | -9.0500 | 0.0000 | |
| Beam 13: End 1: 20: SPSSX | 0.0000 | 0.0000 | 56.5439 | -18.4281 | 3.0160 | 0.0000 | |
| Beam 13: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -2.4017 | -7.2211 | 0.0000 | |
| Beam 13: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 585.7288 | -1092.9662 | -237.4643 | 0.0000 | |
| Beam 13: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 651.9781 | -1367.2314 | -203.6642 | 0.0000 | |
| Beam 13: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 505.8681 | -1032.0977 | -262.7297 | 0.0000 | |
| Beam 13: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 592.4483 | -1058.8285 | -256.8204 | 0.0000 | |
| Beam 13: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 652.8997 | -1162.0655 | -206.4788 | 0.0000 | |
| Beam 13: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 417.1988 | -620.4122 | -146.2815 | 0.0000 | |
| Beam 13: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 627.4153 | -1155.1889 | -263.6341 | 0.0000 | |
| Beam 13: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 325.3985 | -415.1804 | -126.8843 | 0.0000 | |
| Beam 13: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 576.3914 | -1063.6193 | -282.8500 | 0.0000 | |
| Beam 13: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 553.0299 | -1233.4760 | -314.4863 | 0.0000 | |
| Beam 13: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 634.0021 | -1311.0108 | -305.0118 | 0.0000 | |
| Beam 13: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 517.4456 | -989.8096 | -282.2997 | 0.0000 | |
| Beam 13: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 543.9299 | -1006.9094 | -213.5791 | 0.0000 | |
| Beam 13: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 622.0319 | -1284.9035 | -178.8402 | 0.0000 | |
| Beam 13: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 475.9219 | -949.7698 | -237.9057 | 0.0000 | |
| Beam 13: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 550.6494 | -972.7717 | -232.9353 | 0.0000 | |
| Beam 13: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 611.1007 | -1076.0087 | -182.5936 | 0.0000 | |
| Beam 13: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 405.3460 | -616.6834 | -147.2203 | 0.0000 | |
| Beam 13: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 585.6163 | -1069.1321 | -239.7489 | 0.0000 | |
| Beam 13: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 313.5457 | -411.4516 | -127.8231 | 0.0000 | |
| Beam 13: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 535.1710 | -977.3727 | -258.0167 | 0.0000 | |
| Beam 13: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 524.6690 | -1150.3903 | -286.9080 | 0.0000 | |
| Beam 13: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 595.1523 | -1225.5099 | -279.9907 | 0.0000 | |
| Beam 13: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 478.5957 | -904.3087 | -257.2786 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |


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|--|--------|--------|----------|------------|-----------|--------|
| Beam 13: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 584.2083 | -1061.5330 | -270.3244 | 0.0000 |
| Beam 13: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 542.9879 | -975.2864 | -245.4911 | 0.0000 |
| Beam 13: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 360.7215 | -636.3343 | -123.7737 | 0.0000 |
| Beam 13: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 354.5339 | -618.9484 | -118.3437 | 0.0000 |
| Beam 13: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 367.9212 | -653.2506 | -159.7486 | 0.0000 |
| Beam 13: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 361.7336 | -635.8647 | -154.3186 | 0.0000 |
| Beam 13: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 352.0572 | -655.2481 | -141.2281 | 0.0000 |
| Beam 13: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 331.4320 | -597.2951 | -123.1281 | 0.0000 |
| Beam 13: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 354.2171 | -660.3230 | -152.0206 | 0.0000 |
| Beam 13: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 333.5919 | -602.3700 | -133.9206 | 0.0000 |
| Beam 13: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 354.9561 | -624.4644 | -120.4792 | 0.0000 |
| Beam 13: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 348.7685 | -607.0785 | -115.0492 | 0.0000 |
| Beam 13: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 362.1558 | -641.3807 | -156.4541 | 0.0000 |
| Beam 13: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 355.9682 | -623.9948 | -151.0241 | 0.0000 |
| Beam 13: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 346.2918 | -643.3782 | -137.9336 | 0.0000 |
| Beam 13: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 325.6666 | -585.4252 | -119.8336 | 0.0000 |
| Beam 13: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 348.4517 | -648.4531 | -148.7261 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|
| Beam 13: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 327.8265 | -590.5001 | -130.6261 |
| Beam 13: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 430.7260 | -824.8203 | -174.5614 |
| Beam 13: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 401.6499 | -690.5808 | -136.7209 |
| Beam 13: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 481.0106 | -896.8565 | -144.7396 |
| Beam 13: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 408.8584 | -776.8179 | -159.3407 |
| Beam 13: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 379.1439 | -642.7879 | -122.5463 |
| Beam 13: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 457.9491 | -849.3769 | -131.5616 |
| Beam 13: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 479.3155 | -882.1825 | -163.2405 |
| Beam 13: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 450.8876 | -822.7021 | -146.1141 |
| Beam 13: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 253.5046 | -428.8035 | -112.6648 |
| Beam 13: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 443.7291 | -807.6462 | -145.5187 |
| Beam 13: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 420.9868 | -760.0618 | -131.8175 |
| Beam 13: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 652.8997 | 1367.2314 | 314.4863 |
| Beam 13: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 652.8997 | 1367.2314 | 314.4863 |
| Beam 13: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 367.9212 | 660.3230 | 159.7486 |
| Beam 13: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 481.0106 | 896.8565 | 174.5614 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLS0900001 | A |

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|--|--------|--------|----------|------------|-----------|--------|
| Beam 13: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 443.7291 | 807.6462 | 145.5187 | |
| 0.0000 | | | | | | |
| Beam 13: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 253.5046 | 428.8035 | 112.6648 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | -341.0043 | -49.4955 | 0.0000 |
| Beam 13: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -123.7644 | 4.5287 | 0.0000 |
| Beam 13: End 2: 3: SPTSX | 0.0000 | 0.0000 | 53.2220 | -3.4676 | 2.2072 | 0.0000 |
| Beam 13: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -2.9944 | -6.2634 | 0.0000 |
| Beam 13: End 2: 5: SPTW | 0.0000 | 0.0000 | -48.0985 | 104.0263 | -57.5106 | 0.0000 |
| Beam 13: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -279.2044 | -95.7180 | 0.0000 |
| Beam 13: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -227.3590 | -77.9441 | 0.0000 |
| Beam 13: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 40.2729 | -3.4954 | 3.5426 | 0.0000 |
| Beam 13: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -3.1017 | -6.8328 | 0.0000 |
| Beam 13: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 32.9486 | -2.8611 | 2.8951 | 0.0000 |
| Beam 13: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -2.5365 | -5.5871 | 0.0000 |
| Beam 13: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 6.3410 | 17.9723 | 0.0000 |
| Beam 13: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 6.1103 | 17.3185 | 0.0000 |
| Beam 13: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 13: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 97.3540 | 7.5707 | 0.0000 |
| Beam 13: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -72.6910 | -5.6528 | 0.0000 |
| Beam 13: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -75.0656 | 45.2878 | 0.0000 |
| Beam 13: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 25.2716 | 6.9357 | 23.1060 | 0.0000 |
| Beam 13: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -26.3984 | -9.0500 | 0.0000 |
| Beam 13: End 2: 20: SPSSX | 0.0000 | 0.0000 | 50.5689 | -5.0390 | 3.0160 | 0.0000 |
| Beam 13: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -3.3927 | -7.2211 | 0.0000 |
| Beam 13: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 564.8751 | -949.1584 | -229.1871 | 0.0000 |
| Beam 13: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 637.9031 | -1206.0140 | -195.3870 | 0.0000 |
| Beam 13: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 489.6449 | -907.6808 | -254.4525 | 0.0000 |
| Beam 13: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 566.6683 | -913.9628 | -248.5433 | 0.0000 |
| Beam 13: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 627.1197 | -1002.0870 | -198.2017 | 0.0000 |
| Beam 13: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 391.4188 | -519.3589 | -138.0043 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|------------|-----------|--------|
| Beam 13: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 601.6353 | -1001.5814 | -255.3569 | 0.0000 |
| Beam 13: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 299.6185 | -337.0772 | -120.7530 | 0.0000 |
| Beam 13: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 550.6114 | -922.7679 | -274.5729 | 0.0000 |
| Beam 13: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 536.8067 | -1097.2687 | -306.2091 | 0.0000 |
| Beam 13: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 612.3560 | -1155.2383 | -296.7346 | 0.0000 |
| Beam 13: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 495.7995 | -863.1762 | -274.0225 | 0.0000 |
| Beam 13: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 524.3086 | -873.3973 | -205.3019 | 0.0000 |
| Beam 13: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 607.9569 | -1131.1726 | -170.5630 | 0.0000 |
| Beam 13: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 459.6988 | -832.8394 | -229.6286 | 0.0000 |
| Beam 13: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 526.1019 | -838.2017 | -224.6581 | 0.0000 |
| Beam 13: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 586.5532 | -926.3259 | -174.3165 | 0.0000 |
| Beam 13: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 380.7985 | -518.4392 | -138.9431 | 0.0000 |
| Beam 13: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 561.0688 | -925.8204 | -231.4717 | 0.0000 |
| Beam 13: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 288.9982 | -336.1575 | -121.6918 | 0.0000 |
| Beam 13: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 510.6235 | -846.6723 | -249.7395 | 0.0000 |
| Beam 13: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 508.4459 | -1021.2732 | -278.6308 | 0.0000 |
| Beam 13: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 574.4921 | -1079.3266 | -271.7135 | 0.0000 |
| Beam 13: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 457.9356 | -787.2645 | -249.0014 | 0.0000 |
| Beam 13: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 558.4283 | -918.7273 | -262.0473 | 0.0000 |
| Beam 13: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 518.4404 | -842.6317 | -237.2139 | 0.0000 |
| Beam 13: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 344.3290 | -548.2207 | -117.6425 | 0.0000 |
| Beam 13: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 338.1414 | -532.3817 | -112.2125 | 0.0000 |
| Beam 13: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 348.3187 | -563.7383 | -153.6173 | 0.0000 |
| Beam 13: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 342.1311 | -547.8993 | -148.1873 | 0.0000 |
| Beam 13: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 336.6324 | -569.1796 | -135.0969 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|----------|-----------|-----------|
| Beam 13: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 316.0072 | -516.3829 | -116.9969 |
| 0.0000 | | | | | |
| Beam 13: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 337.8293 | -573.8349 | -145.8893 |
| 0.0000 | | | | | |
| Beam 13: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 317.2042 | -521.0382 | -127.7893 |
| 0.0000 | | | | | |
| Beam 13: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 338.7336 | -537.7709 | -114.3480 |
| 0.0000 | | | | | |
| Beam 13: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 332.5460 | -521.9319 | -108.9180 |
| 0.0000 | | | | | |
| Beam 13: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 342.7233 | -553.2885 | -150.3228 |
| 0.0000 | | | | | |
| Beam 13: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 336.5357 | -537.4495 | -144.8928 |
| 0.0000 | | | | | |
| Beam 13: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 331.0370 | -558.7298 | -131.8024 |
| 0.0000 | | | | | |
| Beam 13: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 310.4119 | -505.9331 | -113.7024 |
| 0.0000 | | | | | |
| Beam 13: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 332.2340 | -563.3851 | -142.5948 |
| 0.0000 | | | | | |
| Beam 13: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 311.6088 | -510.5884 | -124.4948 |
| 0.0000 | | | | | |
| Beam 13: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 412.9110 | -719.3834 | -168.4302 |
| 0.0000 | | | | | |
| Beam 13: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 383.8349 | -592.4129 | -130.5896 |
| 0.0000 | | | | | |
| Beam 13: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 463.1956 | -778.8485 | -138.6083 |
| 0.0000 | | | | | |
| Beam 13: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 391.7234 | -676.7629 | -153.2094 |
| 0.0000 | | | | | |
| Beam 13: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 362.0089 | -550.1615 | -116.4151 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 13: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 440.8141 | -737.0492 | -125.4303 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 460.5655 | -764.7151 | -157.1093 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 432.9876 | -712.2354 | -139.9828 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 239.4296 | -367.2044 | -106.5336 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 425.9141 | -698.9585 | -139.3874 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 403.8518 | -656.9747 | -125.6863 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 637.9031 | 1206.0140 | 306.2091 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 637.9031 | 1206.0140 | 306.2091 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 348.3187 | 573.8349 | 153.6173 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 463.1956 | 778.8485 | 168.4302 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 425.9141 | 698.9585 | 139.3874 | |
| 0.0000 | | | | | | |
| Beam 13: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 239.4296 | 367.2044 | 106.5336 | |
| 0.0000 | | | | | | |
| Beam 14: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | -341.0043 | -49.4955 | 0.0000 |
| Beam 14: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -123.7644 | 4.5287 | 0.0000 |
| Beam 14: End 1: 3: SPTSX | 0.0000 | 0.0000 | 53.2220 | -3.4676 | 2.2072 | 0.0000 |
| Beam 14: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -2.9944 | -6.2634 | 0.0000 |
| Beam 14: End 1: 5: SPTW | 0.0000 | 0.0000 | -48.0985 | 104.0263 | -57.5106 | 0.0000 |
| Beam 14: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -279.2044 | -95.7180 | 0.0000 |
| Beam 14: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -227.3590 | -77.9441 | 0.0000 |
| Beam 14: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 40.2729 | -3.4954 | 3.5426 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|------------|-----------|--------|
| Beam 14: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -3.1017 | -6.8328 | 0.0000 |
| Beam 14: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 32.9486 | -2.8611 | 2.8951 | 0.0000 |
| Beam 14: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -2.5365 | -5.5871 | 0.0000 |
| Beam 14: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 6.3410 | 17.9723 | 0.0000 |
| Beam 14: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 6.1103 | 17.3185 | 0.0000 |
| Beam 14: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 14: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 97.3540 | 7.5707 | 0.0000 |
| Beam 14: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -72.6910 | -5.6528 | 0.0000 |
| Beam 14: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -75.0656 | 45.2878 | 0.0000 |
| Beam 14: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 25.2716 | 6.9357 | 23.1060 | 0.0000 |
| Beam 14: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -26.3984 | -9.0500 | 0.0000 |
| Beam 14: End 1: 20: SPSSX | 0.0000 | 0.0000 | 50.5689 | -5.0390 | 3.0160 | 0.0000 |
| Beam 14: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -3.3927 | -7.2211 | 0.0000 |
| Beam 14: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 564.8751 | -949.1584 | -229.1871 | 0.0000 |
| Beam 14: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 637.9031 | -1206.0140 | -195.3870 | 0.0000 |
| Beam 14: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 489.6449 | -907.6808 | -254.4525 | 0.0000 |
| Beam 14: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 566.6683 | -913.9628 | -248.5433 | 0.0000 |
| Beam 14: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 627.1197 | -1002.0870 | -198.2017 | 0.0000 |
| Beam 14: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 391.4188 | -519.3589 | -138.0043 | 0.0000 |
| Beam 14: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 601.6353 | -1001.5814 | -255.3569 | 0.0000 |
| Beam 14: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 299.6185 | -337.0772 | -120.7530 | 0.0000 |
| Beam 14: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 550.6114 | -922.7679 | -274.5729 | 0.0000 |
| Beam 14: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 536.8067 | -1097.2687 | -306.2091 | 0.0000 |
| Beam 14: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 612.3560 | -1155.2383 | -296.7346 | 0.0000 |
| Beam 14: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 495.7995 | -863.1762 | -274.0225 | 0.0000 |
| Beam 14: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 524.3086 | -873.3973 | -205.3019 | 0.0000 |
| Beam 14: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 607.9569 | -1131.1726 | -170.5630 | 0.0000 |
| Beam 14: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 459.6988 | -832.8394 | -229.6286 | 0.0000 |
| Beam 14: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 526.1019 | -838.2017 | -224.6581 | 0.0000 |
| Beam 14: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 586.5532 | -926.3259 | -174.3165 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|------------|-----------|--------|
| Beam 14: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 380.7985 | -518.4392 | -138.9431 | 0.0000 |
| Beam 14: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 561.0688 | -925.8204 | -231.4717 | 0.0000 |
| Beam 14: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 288.9982 | -336.1575 | -121.6918 | 0.0000 |
| Beam 14: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 510.6235 | -846.6723 | -249.7395 | 0.0000 |
| Beam 14: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 508.4459 | -1021.2732 | -278.6308 | 0.0000 |
| Beam 14: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 574.4921 | -1079.3266 | -271.7135 | 0.0000 |
| Beam 14: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 457.9356 | -787.2645 | -249.0014 | 0.0000 |
| Beam 14: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 558.4283 | -918.7273 | -262.0473 | 0.0000 |
| Beam 14: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 518.4404 | -842.6317 | -237.2139 | 0.0000 |
| Beam 14: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 344.3290 | -548.2207 | -117.6425 | 0.0000 |
| Beam 14: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 338.1414 | -532.3817 | -112.2125 | 0.0000 |
| Beam 14: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 348.3187 | -563.7383 | -153.6173 | 0.0000 |
| Beam 14: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 342.1311 | -547.8993 | -148.1873 | 0.0000 |
| Beam 14: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 336.6324 | -569.1796 | -135.0969 | 0.0000 |
| Beam 14: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 316.0072 | -516.3829 | -116.9969 | 0.0000 |
| Beam 14: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 337.8293 | -573.8349 | -145.8893 | 0.0000 |
| Beam 14: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 317.2042 | -521.0382 | -127.7893 | 0.0000 |
| Beam 14: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 338.7336 | -537.7709 | -114.3480 | 0.0000 |
| Beam 14: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 332.5460 | -521.9319 | -108.9180 | 0.0000 |
| Beam 14: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 342.7233 | -553.2885 | -150.3228 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|----------|-----------|-----------|
| Beam 14: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 336.5357 | -537.4495 | -144.8928 |
| Beam 14: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 331.0370 | -558.7298 | -131.8024 |
| Beam 14: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 310.4119 | -505.9331 | -113.7024 |
| Beam 14: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 332.2340 | -563.3851 | -142.5948 |
| Beam 14: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 311.6088 | -510.5884 | -124.4948 |
| Beam 14: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 412.9110 | -719.3834 | -168.4302 |
| Beam 14: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 383.8349 | -592.4129 | -130.5896 |
| Beam 14: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 463.1956 | -778.8485 | -138.6083 |
| Beam 14: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 391.7234 | -676.7629 | -153.2094 |
| Beam 14: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 362.0089 | -550.1615 | -116.4151 |
| Beam 14: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 440.8141 | -737.0492 | -125.4303 |
| Beam 14: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 460.5655 | -764.7151 | -157.1093 |
| Beam 14: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 432.9876 | -712.2354 | -139.9828 |
| Beam 14: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 239.4296 | -367.2044 | -106.5336 |
| Beam 14: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 425.9141 | -698.9585 | -139.3874 |
| Beam 14: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 403.8518 | -656.9747 | -125.6863 |

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| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|----------|--------|
| Beam 14: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 637.9031 | 1206.0140 | 306.2091 | 0.0000 |
| Beam 14: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 637.9031 | 1206.0140 | 306.2091 | 0.0000 |
| Beam 14: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 348.3187 | 573.8349 | 153.6173 | 0.0000 |
| Beam 14: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 463.1956 | 778.8485 | 168.4302 | 0.0000 |
| Beam 14: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 425.9141 | 698.9585 | 139.3874 | 0.0000 |
| Beam 14: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 239.4296 | 367.2044 | 106.5336 | 0.0000 |
| Beam 14: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | -297.8970 | -43.3642 | 0.0000 |
| Beam 14: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -107.4425 | 4.5287 | 0.0000 |
| Beam 14: End 2: 3: SPTSX | 0.0000 | 0.0000 | 45.5220 | 8.8702 | 2.2072 | 0.0000 |
| Beam 14: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -3.8471 | -6.2634 | 0.0000 |
| Beam 14: End 2: 5: SPTW | 0.0000 | 0.0000 | -53.6110 | 91.2996 | -57.5106 | 0.0000 |
| Beam 14: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -251.9365 | -95.7180 | 0.0000 |
| Beam 14: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -205.1544 | -77.9441 | 0.0000 |
| Beam 14: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 35.5979 | 5.9884 | 3.5426 | 0.0000 |
| Beam 14: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -4.0537 | -6.8328 | 0.0000 |
| Beam 14: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 29.1236 | 4.8979 | 2.8951 | 0.0000 |
| Beam 14: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -3.3149 | -5.5871 | 0.0000 |
| Beam 14: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 9.0827 | 17.9723 | 0.0000 |
| Beam 14: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 8.7522 | 17.3185 | 0.0000 |
| Beam 14: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 14: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 87.6410 | 7.5707 | 0.0000 |
| Beam 14: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -65.4386 | -5.6528 | 0.0000 |
| Beam 14: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -61.7800 | 45.2878 | 0.0000 |
| Beam 14: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.8891 | 13.0807 | 23.1060 | 0.0000 |
| Beam 14: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -23.8202 | -9.0500 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|------------|-----------|--------|--|
| Beam 14: End 2: 20: SPSSX | 0.0000 | 0.0000 | 44.5939 | 6.8564 | 3.0160 | 0.0000 | |
| Beam 14: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -4.3836 | -7.2211 | 0.0000 | |
| Beam 14: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 544.8838 | -810.4567 | -220.9099 | 0.0000 | |
| Beam 14: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 624.6906 | -1048.2080 | -187.1098 | 0.0000 | |
| Beam 14: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 474.5031 | -787.1851 | -246.1753 | 0.0000 | |
| Beam 14: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 542.0527 | -775.3973 | -240.2661 | 0.0000 | |
| Beam 14: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 602.5040 | -848.4086 | -189.9245 | 0.0000 | |
| Beam 14: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 366.8031 | -424.6058 | -129.7271 | 0.0000 | |
| Beam 14: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 577.0197 | -854.2742 | -247.0797 | 0.0000 | |
| Beam 14: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 275.0028 | -265.2741 | -114.6218 | 0.0000 | |
| Beam 14: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 525.9958 | -788.2166 | -266.2957 | 0.0000 | |
| Beam 14: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 521.6649 | -964.9825 | -297.9319 | 0.0000 | |
| Beam 14: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 591.7911 | -1004.7427 | -288.4574 | 0.0000 | |
| Beam 14: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 475.2346 | -741.8197 | -265.7453 | 0.0000 | |
| Beam 14: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 505.5499 | -744.6832 | -197.0247 | 0.0000 | |
| Beam 14: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 594.7444 | -980.8532 | -162.2858 | 0.0000 | |
| Beam 14: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 444.5569 | -719.8303 | -221.3514 | 0.0000 | |
| Beam 14: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 502.7187 | -709.6238 | -216.3809 | 0.0000 | |
| Beam 14: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 563.1701 | -782.6351 | -166.0393 | 0.0000 | |
| Beam 14: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 357.4154 | -426.1871 | -130.6659 | 0.0000 | |
| Beam 14: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 537.6857 | -788.5007 | -223.1945 | 0.0000 | |
| Beam 14: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 265.6151 | -266.8554 | -115.5606 | 0.0000 | |
| Beam 14: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 487.2403 | -721.9639 | -241.4623 | 0.0000 | |
| Beam 14: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 493.3040 | -896.0773 | -270.3536 | 0.0000 | |
| Beam 14: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 554.9133 | -938.1737 | -263.4363 | 0.0000 | |
| Beam 14: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 438.3567 | -675.2508 | -240.7242 | 0.0000 | |
| Beam 14: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 533.8127 | -782.2218 | -253.7701 | 0.0000 | |
| Beam 14: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 495.0572 | -715.9691 | -228.9368 | 0.0000 | |
| Beam 14: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 328.7990 | -464.0979 | -111.5112 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|
| Beam 14: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | 322.6114 | -449.8058 | -106.0812 |
| Beam 14: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | 329.5787 | -479.0194 | -147.4861 |
| Beam 14: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | 323.3911 | -464.7272 | -142.0561 |
| Beam 14: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | 322.0702 | -486.8601 | -128.9656 |
| Beam 14: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 301.4450 | -439.2196 | -110.8656 |
| Beam 14: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 322.3041 | -491.3365 | -139.7581 |
| Beam 14: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 301.6789 | -443.6960 | -121.6581 |
| Beam 14: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 323.3736 | -455.0257 | -108.2167 |
| Beam 14: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 317.1860 | -440.7336 | -102.7867 |
| Beam 14: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 324.1533 | -469.9471 | -144.1916 |
| Beam 14: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 317.9657 | -455.6550 | -138.7616 |
| Beam 14: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 316.6448 | -477.7878 | -125.6711 |
| Beam 14: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 296.0196 | -430.1474 | -107.5711 |
| Beam 14: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 316.8787 | -482.2643 | -136.4636 |
| Beam 14: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 296.2535 | -434.6238 | -118.3636 |
| Beam 14: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 395.9585 | -618.2929 | -162.2989 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|-----------|
| Beam 14: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 366.8824 | -498.5915 | -124.4584 |
| 0.0000 | | | | | |
| Beam 14: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 446.2431 | -665.1869 | -132.4771 |
| 0.0000 | | | | | |
| Beam 14: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 375.4509 | -580.8843 | -147.0782 |
| 0.0000 | | | | | |
| Beam 14: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 345.7364 | -461.7116 | -110.2838 |
| 0.0000 | | | | | |
| Beam 14: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 424.5416 | -628.8980 | -119.2991 |
| 0.0000 | | | | | |
| Beam 14: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 442.6780 | -651.8279 | -150.9780 |
| 0.0000 | | | | | |
| Beam 14: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 415.9501 | -606.1364 | -133.8516 |
| 0.0000 | | | | | |
| Beam 14: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 226.2171 | -309.0168 | -100.4023 |
| 0.0000 | | | | | |
| Beam 14: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 408.9616 | -594.6172 | -133.2562 |
| 0.0000 | | | | | |
| Beam 14: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 387.5793 | -558.0640 | -119.5550 |
| 0.0000 | | | | | |
| Beam 14: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 624.6906 | 1048.2080 | 297.9319 |
| 0.0000 | | | | | |
| Beam 14: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 624.6906 | 1048.2080 | 297.9319 |
| 0.0000 | | | | | |
| Beam 14: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 329.5787 | 491.3365 | 147.4861 |
| 0.0000 | | | | | |
| Beam 14: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 446.2431 | 665.1869 | 162.2989 |
| 0.0000 | | | | | |
| Beam 14: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 408.9616 | 594.6172 | 133.2562 |
| 0.0000 | | | | | |
| Beam 14: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 226.2171 | 309.0168 | 100.4023 |
| 0.0000 | | | | | |
| Beam 15: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | -297.8970 | -43.3642 |
| | | | | 0.0000 | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|------------|-----------|--------|--|
| Beam 15: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -107.4425 | 4.5287 | 0.0000 | |
| Beam 15: End 1: 3: SPTSX | 0.0000 | 0.0000 | 45.5220 | 8.8702 | 2.2072 | 0.0000 | |
| Beam 15: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -3.8471 | -6.2634 | 0.0000 | |
| Beam 15: End 1: 5: SPTW | 0.0000 | 0.0000 | -53.6110 | 91.2996 | -57.5106 | 0.0000 | |
| Beam 15: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -251.9365 | -95.7180 | 0.0000 | |
| Beam 15: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -205.1544 | -77.9441 | 0.0000 | |
| Beam 15: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 35.5979 | 5.9884 | 3.5426 | 0.0000 | |
| Beam 15: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -4.0537 | -6.8328 | 0.0000 | |
| Beam 15: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 29.1236 | 4.8979 | 2.8951 | 0.0000 | |
| Beam 15: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -3.3149 | -5.5871 | 0.0000 | |
| Beam 15: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 9.0827 | 17.9723 | 0.0000 | |
| Beam 15: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 8.7522 | 17.3185 | 0.0000 | |
| Beam 15: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 15: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 87.6410 | 7.5707 | 0.0000 | |
| Beam 15: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -65.4386 | -5.6528 | 0.0000 | |
| Beam 15: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -61.7800 | 45.2878 | 0.0000 | |
| Beam 15: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.8891 | 13.0807 | 23.1060 | 0.0000 | |
| Beam 15: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -23.8202 | -9.0500 | 0.0000 | |
| Beam 15: End 1: 20: SPSSX | 0.0000 | 0.0000 | 44.5939 | 6.8564 | 3.0160 | 0.0000 | |
| Beam 15: End 1: 21: SPSSDX | 0.0000 | 0.0000 | -3.9639 | -4.3836 | -7.2211 | 0.0000 | |
| Beam 15: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 544.8838 | -810.4567 | -220.9099 | 0.0000 | |
| Beam 15: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 624.6906 | -1048.2080 | -187.1098 | 0.0000 | |
| Beam 15: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 474.5031 | -787.1851 | -246.1753 | 0.0000 | |
| Beam 15: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 542.0527 | -775.3973 | -240.2661 | 0.0000 | |
| Beam 15: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 602.5040 | -848.4086 | -189.9245 | 0.0000 | |
| Beam 15: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 366.8031 | -424.6058 | -129.7271 | 0.0000 | |
| Beam 15: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 577.0197 | -854.2742 | -247.0797 | 0.0000 | |
| Beam 15: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 275.0028 | -265.2741 | -114.6218 | 0.0000 | |
| Beam 15: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 525.9958 | -788.2166 | -266.2957 | 0.0000 | |
| Beam 15: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 521.6649 | -964.9825 | -297.9319 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|------------|-----------|--------|
| Beam 15: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 591.7911 | -1004.7427 | -288.4574 | 0.0000 |
| Beam 15: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 475.2346 | -741.8197 | -265.7453 | 0.0000 |
| Beam 15: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 505.5499 | -744.6832 | -197.0247 | 0.0000 |
| Beam 15: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 594.7444 | -980.8532 | -162.2858 | 0.0000 |
| Beam 15: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 444.5569 | -719.8303 | -221.3514 | 0.0000 |
| Beam 15: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 502.7187 | -709.6238 | -216.3809 | 0.0000 |
| Beam 15: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 563.1701 | -782.6351 | -166.0393 | 0.0000 |
| Beam 15: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 357.4154 | -426.1871 | -130.6659 | 0.0000 |
| Beam 15: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 537.6857 | -788.5007 | -223.1945 | 0.0000 |
| Beam 15: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 265.6151 | -266.8554 | -115.5606 | 0.0000 |
| Beam 15: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 487.2403 | -721.9639 | -241.4623 | 0.0000 |
| Beam 15: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 493.3040 | -896.0773 | -270.3536 | 0.0000 |
| Beam 15: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 554.9133 | -938.1737 | -263.4363 | 0.0000 |
| Beam 15: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 438.3567 | -675.2508 | -240.7242 | 0.0000 |
| Beam 15: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 533.8127 | -782.2218 | -253.7701 | 0.0000 |
| Beam 15: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 495.0572 | -715.9691 | -228.9368 | 0.0000 |
| Beam 15: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 328.7990 | -464.0979 | -111.5112 | 0.0000 |
| Beam 15: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 322.6114 | -449.8058 | -106.0812 | 0.0000 |
| Beam 15: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 329.5787 | -479.0194 | -147.4861 | 0.0000 |
| Beam 15: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 323.3911 | -464.7272 | -142.0561 | 0.0000 |
| Beam 15: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 322.0702 | -486.8601 | -128.9656 | 0.0000 |
| Beam 15: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 301.4450 | -439.2196 | -110.8656 | 0.0000 |
| Beam 15: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 322.3041 | -491.3365 | -139.7581 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|
| Beam 15: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 301.6789 | -443.6960 | -121.6581 |
| 0.0000 | | | | | |
| Beam 15: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 323.3736 | -455.0257 | -108.2167 |
| 0.0000 | | | | | |
| Beam 15: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 317.1860 | -440.7336 | -102.7867 |
| 0.0000 | | | | | |
| Beam 15: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 324.1533 | -469.9471 | -144.1916 |
| 0.0000 | | | | | |
| Beam 15: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 317.9657 | -455.6550 | -138.7616 |
| 0.0000 | | | | | |
| Beam 15: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 316.6448 | -477.7878 | -125.6711 |
| 0.0000 | | | | | |
| Beam 15: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 296.0196 | -430.1474 | -107.5711 |
| 0.0000 | | | | | |
| Beam 15: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 316.8787 | -482.2643 | -136.4636 |
| 0.0000 | | | | | |
| Beam 15: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 296.2535 | -434.6238 | -118.3636 |
| 0.0000 | | | | | |
| Beam 15: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 395.9585 | -618.2929 | -162.2989 |
| 0.0000 | | | | | |
| Beam 15: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 366.8824 | -498.5915 | -124.4584 |
| 0.0000 | | | | | |
| Beam 15: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 446.2431 | -665.1869 | -132.4771 |
| 0.0000 | | | | | |
| Beam 15: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 375.4509 | -580.8843 | -147.0782 |
| 0.0000 | | | | | |
| Beam 15: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 345.7364 | -461.7116 | -110.2838 |
| 0.0000 | | | | | |
| Beam 15: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 424.5416 | -628.8980 | -119.2991 |
| 0.0000 | | | | | |
| Beam 15: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 442.6780 | -651.8279 | -150.9780 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |


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|---|--------|--------|----------|-----------|-----------|--------|--|
| Beam 15: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 415.9501 | -606.1364 | -133.8516 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 226.2171 | -309.0168 | -100.4023 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 408.9616 | -594.6172 | -133.2562 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 387.5793 | -558.0640 | -119.5550 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 624.6906 | 1048.2080 | 297.9319 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 624.6906 | 1048.2080 | 297.9319 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 329.5787 | 491.3365 | 147.4861 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 446.2431 | 665.1869 | 162.2989 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 408.9616 | 594.6172 | 133.2562 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 226.2171 | 309.0168 | 100.4023 | | |
| 0.0000 | | | | | | | |
| Beam 15: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | -232.7189 | -34.0938 | 0.0000 | |
| Beam 15: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -82.7636 | 4.5287 | 0.0000 | |
| Beam 15: End 2: 3: SPTSX | 0.0000 | 0.0000 | 34.3521 | 23.9485 | 2.2072 | 0.0000 | |
| Beam 15: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -5.1364 | -6.2634 | 0.0000 | |
| Beam 15: End 2: 5: SPTW | 0.0000 | 0.0000 | -60.7552 | 69.6392 | -57.5106 | 0.0000 | |
| Beam 15: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -210.7073 | -95.7180 | 0.0000 | |
| Beam 15: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -171.5811 | -77.9441 | 0.0000 | |
| Beam 15: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 28.5293 | 18.1085 | 3.5426 | 0.0000 | |
| Beam 15: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -5.4931 | -6.8328 | 0.0000 | |
| Beam 15: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 23.3402 | 14.8135 | 2.8951 | 0.0000 | |
| Beam 15: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -4.4918 | -5.5871 | 0.0000 | |
| Beam 15: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 13.2280 | 17.9723 | 0.0000 | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 15: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 12.7468 | 17.3185 | 0.0000 | |
| Beam 15: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 15: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 72.9549 | 7.5707 | 0.0000 | |
| Beam 15: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -54.4730 | -5.6528 | 0.0000 | |
| Beam 15: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -41.6922 | 45.2878 | 0.0000 | |
| Beam 15: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 21.7987 | 21.7157 | 23.1060 | 0.0000 | |
| Beam 15: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -19.9221 | -9.0500 | 0.0000 | |
| Beam 15: End 2: 20: SPSSX | 0.0000 | 0.0000 | 35.5597 | 22.0054 | 3.0160 | 0.0000 | |
| Beam 15: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -5.8820 | -7.2211 | 0.0000 | |
| Beam 15: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 516.3203 | -609.9523 | -208.3948 | 0.0000 | |
| Beam 15: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 606.3765 | -815.5994 | -174.5947 | 0.0000 | |
| Beam 15: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 453.6885 | -611.8359 | -233.6602 | 0.0000 | |
| Beam 15: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 507.0792 | -577.1966 | -227.7510 | 0.0000 | |
| Beam 15: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 567.5305 | -627.3573 | -177.4094 | 0.0000 | |
| Beam 15: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 331.8296 | -292.6494 | -117.2120 | 0.0000 | |
| Beam 15: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 542.0462 | -642.8559 | -234.5646 | 0.0000 | |
| Beam 15: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 240.0293 | -168.0182 | -105.3513 | 0.0000 | |
| Beam 15: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 491.0223 | -596.0854 | -253.7806 | 0.0000 | |
| Beam 15: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 500.8503 | -771.8061 | -285.4168 | 0.0000 | |
| Beam 15: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 562.7770 | -786.6082 | -275.9423 | 0.0000 | |
| Beam 15: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 446.2204 | -567.7437 | -253.2302 | 0.0000 | |
| Beam 15: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 478.8498 | -558.6948 | -184.5096 | 0.0000 | |
| Beam 15: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 576.4303 | -759.5643 | -149.7707 | 0.0000 | |
| Beam 15: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 423.7423 | -555.8007 | -208.8363 | 0.0000 | |
| Beam 15: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 469.6088 | -525.9391 | -203.8658 | 0.0000 | |
| Beam 15: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 530.0601 | -576.0998 | -153.5242 | 0.0000 | |
| Beam 15: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 324.3054 | -297.4271 | -118.1508 | 0.0000 | |
| Beam 15: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 504.5757 | -591.5984 | -210.6794 | 0.0000 | |
| Beam 15: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 232.5051 | -172.7959 | -106.2901 | 0.0000 | |
| Beam 15: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 454.1304 | -544.1301 | -228.9472 | 0.0000 | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 15: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 472.4894 | -713.6213 | -257.8385 | 0.0000 |
| Beam 15: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 527.3900 | -733.6974 | -250.9212 | 0.0000 |
| Beam 15: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 410.8334 | -514.8328 | -228.2091 | 0.0000 |
| Beam 15: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 498.8392 | -587.1358 | -241.2550 | 0.0000 |
| Beam 15: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 461.9473 | -535.1805 | -216.4216 | 0.0000 |
| Beam 15: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 306.9808 | -343.9987 | -102.2408 | 0.0000 |
| Beam 15: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 300.7932 | -332.0454 | -96.8108 | 0.0000 |
| Beam 15: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 302.9070 | -359.5427 | -138.2156 | 0.0000 |
| Beam 15: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 296.7194 | -347.5894 | -132.7856 | 0.0000 |
| Beam 15: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 301.7153 | -369.0277 | -119.6952 | 0.0000 |
| Beam 15: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 281.0901 | -329.1836 | -101.5952 | 0.0000 |
| Beam 15: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 300.4931 | -373.6909 | -130.4876 | 0.0000 |
| Beam 15: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 279.8679 | -333.8468 | -112.3876 | 0.0000 |
| Beam 15: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 301.8125 | -336.9287 | -98.9463 | 0.0000 |
| Beam 15: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 295.6249 | -324.9754 | -93.5163 | 0.0000 |
| Beam 15: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 297.7387 | -352.4727 | -134.9211 | 0.0000 |
| Beam 15: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 291.5511 | -340.5194 | -129.4911 | 0.0000 |
| Beam 15: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 296.5469 | -361.9577 | -116.4007 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|-----------|
| Beam 15: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 275.9217 | -322.1136 | -98.3007 |
| 0.0000 | | | | | |
| Beam 15: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 295.3248 | -366.6209 | -127.1931 |
| 0.0000 | | | | | |
| Beam 15: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 274.6996 | -326.7768 | -109.0931 |
| 0.0000 | | | | | |
| Beam 15: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 371.9895 | -473.2138 | -153.0285 |
| 0.0000 | | | | | |
| Beam 15: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 342.9134 | -364.5032 | -115.1879 |
| 0.0000 | | | | | |
| Beam 15: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 422.2741 | -501.1002 | -123.2066 |
| 0.0000 | | | | | |
| Beam 15: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 352.5100 | -443.3628 | -137.8077 |
| 0.0000 | | | | | |
| Beam 15: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 322.7955 | -335.4222 | -101.0134 |
| 0.0000 | | | | | |
| Beam 15: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 401.6008 | -472.8202 | -110.0286 |
| 0.0000 | | | | | |
| Beam 15: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 417.2953 | -489.3560 | -141.7076 |
| 0.0000 | | | | | |
| Beam 15: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 391.8526 | -453.5248 | -124.5811 |
| 0.0000 | | | | | |
| Beam 15: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 207.9030 | -227.0312 | -91.1319 |
| 0.0000 | | | | | |
| Beam 15: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 384.9927 | -444.6230 | -123.9857 |
| 0.0000 | | | | | |
| Beam 15: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 364.6385 | -415.9580 | -110.2846 |
| 0.0000 | | | | | |
| Beam 15: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 606.3765 | 815.5994 | 285.4168 |
| 0.0000 | | | | | |
| Beam 15: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 606.3765 | 815.5994 | 285.4168 |
| 0.0000 | | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 15: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 306.9808 | 373.6909 | 138.2156 | |
| 0.0000 | | | | | | |
| Beam 15: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 422.2741 | 501.1002 | 153.0285 | |
| 0.0000 | | | | | | |
| Beam 15: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 384.9927 | 444.6230 | 123.9857 | |
| 0.0000 | | | | | | |
| Beam 15: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 207.9030 | 227.0312 | 91.1319 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | -232.7189 | -34.0938 | 0.0000 |
| Beam 16: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -82.7636 | 4.5287 | 0.0000 |
| Beam 16: End 1: 3: SPTSX | 0.0000 | 0.0000 | 34.3521 | 23.9485 | 2.2072 | 0.0000 |
| Beam 16: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -5.1364 | -6.2634 | 0.0000 |
| Beam 16: End 1: 5: SPTW | 0.0000 | 0.0000 | -60.7552 | 69.6392 | -57.5106 | 0.0000 |
| Beam 16: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -210.7073 | -95.7180 | 0.0000 |
| Beam 16: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -171.5811 | -77.9441 | 0.0000 |
| Beam 16: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 28.5293 | 18.1085 | 3.5426 | 0.0000 |
| Beam 16: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -5.4931 | -6.8328 | 0.0000 |
| Beam 16: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 23.3402 | 14.8135 | 2.8951 | 0.0000 |
| Beam 16: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -4.4918 | -5.5871 | 0.0000 |
| Beam 16: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 13.2280 | 17.9723 | 0.0000 |
| Beam 16: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 12.7468 | 17.3185 | 0.0000 |
| Beam 16: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 16: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 72.9549 | 7.5707 | 0.0000 |
| Beam 16: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -54.4730 | -5.6528 | 0.0000 |
| Beam 16: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -41.6922 | 45.2878 | 0.0000 |
| Beam 16: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 21.7987 | 21.7157 | 23.1060 | 0.0000 |
| Beam 16: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -19.9221 | -9.0500 | 0.0000 |
| Beam 16: End 1: 20: SPSSX | 0.0000 | 0.0000 | 35.5597 | 22.0054 | 3.0160 | 0.0000 |
| Beam 16: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -5.8820 | -7.2211 | 0.0000 |
| Beam 16: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 516.3203 | -609.9523 | -208.3948 | 0.0000 |
| Beam 16: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 606.3765 | -815.5994 | -174.5947 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 16: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 453.6885 | -611.8359 | -233.6602 | 0.0000 |
| Beam 16: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 507.0792 | -577.1966 | -227.7510 | 0.0000 |
| Beam 16: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 567.5305 | -627.3573 | -177.4094 | 0.0000 |
| Beam 16: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 331.8296 | -292.6494 | -117.2120 | 0.0000 |
| Beam 16: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 542.0462 | -642.8559 | -234.5646 | 0.0000 |
| Beam 16: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 240.0293 | -168.0182 | -105.3513 | 0.0000 |
| Beam 16: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 491.0223 | -596.0854 | -253.7806 | 0.0000 |
| Beam 16: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 500.8503 | -771.8061 | -285.4168 | 0.0000 |
| Beam 16: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 562.7770 | -786.6082 | -275.9423 | 0.0000 |
| Beam 16: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 446.2204 | -567.7437 | -253.2302 | 0.0000 |
| Beam 16: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 478.8498 | -558.6948 | -184.5096 | 0.0000 |
| Beam 16: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 576.4303 | -759.5643 | -149.7707 | 0.0000 |
| Beam 16: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 423.7423 | -555.8007 | -208.8363 | 0.0000 |
| Beam 16: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 469.6088 | -525.9391 | -203.8658 | 0.0000 |
| Beam 16: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 530.0601 | -576.0998 | -153.5242 | 0.0000 |
| Beam 16: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 324.3054 | -297.4271 | -118.1508 | 0.0000 |
| Beam 16: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 504.5757 | -591.5984 | -210.6794 | 0.0000 |
| Beam 16: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 232.5051 | -172.7959 | -106.2901 | 0.0000 |
| Beam 16: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 454.1304 | -544.1301 | -228.9472 | 0.0000 |
| Beam 16: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 472.4894 | -713.6213 | -257.8385 | 0.0000 |
| Beam 16: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 527.3900 | -733.6974 | -250.9212 | 0.0000 |
| Beam 16: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 410.8334 | -514.8328 | -228.2091 | 0.0000 |
| Beam 16: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 498.8392 | -587.1358 | -241.2550 | 0.0000 |
| Beam 16: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 461.9473 | -535.1805 | -216.4216 | 0.0000 |
| Beam 16: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 306.9808 | -343.9987 | -102.2408 | 0.0000 |
| Beam 16: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 300.7932 | -332.0454 | -96.8108 | 0.0000 |
| Beam 16: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 302.9070 | -359.5427 | -138.2156 | 0.0000 |

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|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|
| Beam 16: End 1: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | 296.7194 | -347.5894 | -132.7856 |
| Beam 16: End 1: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | 301.7153 | -369.0277 | -119.6952 |
| Beam 16: End 1: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 281.0901 | -329.1836 | -101.5952 |
| Beam 16: End 1: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 300.4931 | -373.6909 | -130.4876 |
| Beam 16: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 279.8679 | -333.8468 | -112.3876 |
| Beam 16: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 301.8125 | -336.9287 | -98.9463 |
| Beam 16: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 295.6249 | -324.9754 | -93.5163 |
| Beam 16: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 297.7387 | -352.4727 | -134.9211 |
| Beam 16: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 291.5511 | -340.5194 | -129.4911 |
| Beam 16: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 296.5469 | -361.9577 | -116.4007 |
| Beam 16: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 275.9217 | -322.1136 | -98.3007 |
| Beam 16: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 295.3248 | -366.6209 | -127.1931 |
| Beam 16: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 274.6996 | -326.7768 | -109.0931 |
| Beam 16: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 371.9895 | -473.2138 | -153.0285 |
| Beam 16: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 342.9134 | -364.5032 | -115.1879 |
| Beam 16: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 422.2741 | -501.1002 | -123.2066 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 16: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 352.5100 | -443.3628 | -137.8077 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 322.7955 | -335.4222 | -101.0134 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 401.6008 | -472.8202 | -110.0286 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 417.2953 | -489.3560 | -141.7076 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 391.8526 | -453.5248 | -124.5811 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 207.9030 | -227.0312 | -91.1319 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 384.9927 | -444.6230 | -123.9857 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 364.6385 | -415.9580 | -110.2846 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 606.3765 | 815.5994 | 285.4168 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 606.3765 | 815.5994 | 285.4168 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 306.9808 | 373.6909 | 138.2156 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 422.2741 | 501.1002 | 153.0285 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 384.9927 | 444.6230 | 123.9857 | |
| 0.0000 | | | | | | |
| Beam 16: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 207.9030 | 227.0312 | 91.1319 | |
| 0.0000 | | | | | | |
| Beam 16: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | -166.8511 | -24.7252 | 0.0000 |
| Beam 16: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -57.8236 | 4.5287 | 0.0000 |
| Beam 16: End 2: 3: SPTSX | 0.0000 | 0.0000 | 23.6179 | 35.0038 | 2.2072 | 0.0000 |
| Beam 16: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -6.4393 | -6.2634 | 0.0000 |

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|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 16: End 2: 5: SPTW | 0.0000 | 0.0000 | -66.5234 | 45.2828 | -57.5106 | 0.0000 | |
| Beam 16: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -169.0418 | -95.7180 | 0.0000 | |
| Beam 16: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -137.6525 | -77.9441 | 0.0000 | |
| Beam 16: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 21.3859 | 27.6423 | 3.5426 | 0.0000 | |
| Beam 16: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -6.9477 | -6.8328 | 0.0000 | |
| Beam 16: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 17.4956 | 22.6131 | 2.8951 | 0.0000 | |
| Beam 16: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -5.6812 | -5.5871 | 0.0000 | |
| Beam 16: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 17.4173 | 17.9723 | 0.0000 | |
| Beam 16: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 16.7836 | 17.3185 | 0.0000 | |
| Beam 16: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 16: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 58.1133 | 7.5707 | 0.0000 | |
| Beam 16: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -43.3913 | -5.6528 | 0.0000 | |
| Beam 16: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -21.3918 | 45.2878 | 0.0000 | |
| Beam 16: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 19.6863 | 29.6394 | 23.1060 | 0.0000 | |
| Beam 16: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -15.9827 | -9.0500 | 0.0000 | |
| Beam 16: End 2: 20: SPSSX | 0.0000 | 0.0000 | 26.4299 | 33.8455 | 3.0160 | 0.0000 | |
| Beam 16: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -7.3962 | -7.2211 | 0.0000 | |
| Beam 16: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 489.4599 | -417.9115 | -195.7472 | 0.0000 | |
| Beam 16: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 589.8741 | -587.1788 | -161.9472 | 0.0000 | |
| Beam 16: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 435.1672 | -442.1438 | -221.0127 | 0.0000 | |
| Beam 16: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 474.4430 | -389.8112 | -215.1034 | 0.0000 | |
| Beam 16: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 534.8944 | -416.8795 | -164.7618 | 0.0000 | |
| Beam 16: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 299.1935 | -172.2093 | -104.5645 | 0.0000 | |
| Beam 16: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 509.4100 | -442.1132 | -221.9171 | 0.0000 | |
| Beam 16: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 207.3932 | -82.6459 | -95.9828 | 0.0000 | |
| Beam 16: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 458.3861 | -414.8338 | -241.1330 | 0.0000 | |
| Beam 16: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 482.3290 | -584.0983 | -272.7693 | 0.0000 | |
| Beam 16: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 535.9694 | -576.8271 | -263.2948 | 0.0000 | |
| Beam 16: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 419.4128 | -402.4871 | -240.5827 | 0.0000 | |
| Beam 16: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 453.8728 | -380.6080 | -171.8620 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 16: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 559.9279 | -542.5831 | -137.1232 | 0.0000 |
| Beam 16: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 405.2210 | -397.5481 | -196.1887 | 0.0000 |
| Beam 16: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 438.8559 | -352.5077 | -191.2182 | 0.0000 |
| Beam 16: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 499.3072 | -379.5760 | -140.8766 | 0.0000 |
| Beam 16: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 293.5525 | -179.5016 | -105.5032 | 0.0000 |
| Beam 16: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 473.8228 | -404.8097 | -198.0319 | 0.0000 |
| Beam 16: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 201.7522 | -89.9382 | -96.9216 | 0.0000 |
| Beam 16: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 423.3775 | -376.6114 | -216.2997 | 0.0000 |
| Beam 16: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 453.9681 | -536.7473 | -245.1910 | 0.0000 |
| Beam 16: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 502.0889 | -537.1463 | -238.2737 | 0.0000 |
| Beam 16: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 385.5324 | -362.8063 | -215.5616 | 0.0000 |
| Beam 16: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 466.2030 | -402.8981 | -228.6074 | 0.0000 |
| Beam 16: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 431.1944 | -364.6758 | -203.7741 | 0.0000 |
| Beam 16: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 286.9373 | -230.6235 | -92.8722 | 0.0000 |
| Beam 16: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 280.7497 | -221.0339 | -87.4422 | 0.0000 |
| Beam 16: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 277.9586 | -248.6606 | -128.8471 | 0.0000 |
| Beam 16: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 271.7710 | -239.0710 | -123.4171 | 0.0000 |
| Beam 16: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 283.1504 | -257.3816 | -110.3266 | 0.0000 |
| Beam 16: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 262.5253 | -225.4163 | -92.2266 | 0.0000 |
| Beam 16: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 280.4568 | -262.7927 | -121.1191 | 0.0000 |
| Beam 16: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 259.8316 | -230.8274 | -103.0191 | 0.0000 |
| Beam 16: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 282.0287 | -225.4782 | -89.5777 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|
| Beam 16: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 275.8411 | -215.8886 | -84.1477 |
| Beam 16: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 273.0500 | -243.5153 | -125.5526 |
| Beam 16: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 266.8624 | -233.9257 | -120.1226 |
| Beam 16: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 278.2419 | -252.2363 | -107.0321 |
| Beam 16: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 257.6167 | -220.2710 | -88.9321 |
| Beam 16: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 275.5483 | -257.6474 | -117.8246 |
| Beam 16: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 254.9231 | -225.6821 | -99.7246 |
| Beam 16: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 349.7724 | -335.4205 | -143.6599 |
| Beam 16: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 320.6963 | -237.8169 | -105.8194 |
| Beam 16: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 400.0570 | -344.0982 | -113.8381 |
| Beam 16: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 331.3320 | -312.8122 | -128.4392 |
| Beam 16: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 301.6175 | -216.2225 | -91.6448 |
| Beam 16: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 380.4227 | -323.5169 | -100.6601 |
| Beam 16: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 393.6495 | -334.5288 | -132.3390 |
| Beam 16: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 369.5056 | -308.1686 | -115.2126 |
| Beam 16: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 191.4006 | -150.8275 | -81.7633 |

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|---|---|---------------------|------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 16: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 362.7755 | -301.8625 | -114.6172 | 0.0000 |
| Beam 16: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 343.4604 | -280.7743 | -100.9160 | 0.0000 |
| Beam 16: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 589.8741 | 587.1788 | 272.7693 | 0.0000 |
| Beam 16: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 589.8741 | 587.1788 | 272.7693 | 0.0000 |
| Beam 16: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 286.9373 | 262.7927 | 128.8471 | 0.0000 |
| Beam 16: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 400.0570 | 344.0982 | 143.6599 | 0.0000 |
| Beam 16: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 362.7755 | 301.8625 | 114.6172 | 0.0000 |
| Beam 16: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 191.4006 | 150.8275 | 81.7633 | 0.0000 |
| Beam 17: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | -166.8511 | -24.7252 | 0.0000 |
| Beam 17: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -57.8236 | 4.5287 | 0.0000 |
| Beam 17: End 1: 3: SPTSX | 0.0000 | 0.0000 | 23.6179 | 35.0038 | 2.2072 | 0.0000 |
| Beam 17: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -6.4393 | -6.2634 | 0.0000 |
| Beam 17: End 1: 5: SPTW | 0.0000 | 0.0000 | -66.5234 | 45.2828 | -57.5106 | 0.0000 |
| Beam 17: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -169.0418 | -95.7180 | 0.0000 |
| Beam 17: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -137.6525 | -77.9441 | 0.0000 |
| Beam 17: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 21.3859 | 27.6423 | 3.5426 | 0.0000 |
| Beam 17: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -6.9477 | -6.8328 | 0.0000 |
| Beam 17: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 17.4956 | 22.6131 | 2.8951 | 0.0000 |
| Beam 17: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -5.6812 | -5.5871 | 0.0000 |
| Beam 17: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 17.4173 | 17.9723 | 0.0000 |
| Beam 17: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 16.7836 | 17.3185 | 0.0000 |
| Beam 17: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 17: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 58.1133 | 7.5707 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 17: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -43.3913 | -5.6528 | 0.0000 | |
| Beam 17: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -21.3918 | 45.2878 | 0.0000 | |
| Beam 17: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 19.6863 | 29.6394 | 23.1060 | 0.0000 | |
| Beam 17: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -15.9827 | -9.0500 | 0.0000 | |
| Beam 17: End 1: 20: SPSSX | 0.0000 | 0.0000 | 26.4299 | 33.8455 | 3.0160 | 0.0000 | |
| Beam 17: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -7.3962 | -7.2211 | 0.0000 | |
| Beam 17: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 489.4599 | -417.9115 | -195.7472 | 0.0000 | |
| Beam 17: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 589.8741 | -587.1788 | -161.9472 | 0.0000 | |
| Beam 17: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 435.1672 | -442.1438 | -221.0127 | 0.0000 | |
| Beam 17: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 474.4430 | -389.8112 | -215.1034 | 0.0000 | |
| Beam 17: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 534.8944 | -416.8795 | -164.7618 | 0.0000 | |
| Beam 17: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 299.1935 | -172.2093 | -104.5645 | 0.0000 | |
| Beam 17: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 509.4100 | -442.1132 | -221.9171 | 0.0000 | |
| Beam 17: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 207.3932 | -82.6459 | -95.9828 | 0.0000 | |
| Beam 17: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 458.3861 | -414.8338 | -241.1330 | 0.0000 | |
| Beam 17: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 482.3290 | -584.0983 | -272.7693 | 0.0000 | |
| Beam 17: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 535.9694 | -576.8271 | -263.2948 | 0.0000 | |
| Beam 17: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 419.4128 | -402.4871 | -240.5827 | 0.0000 | |
| Beam 17: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 453.8728 | -380.6080 | -171.8620 | 0.0000 | |
| Beam 17: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 559.9279 | -542.5831 | -137.1232 | 0.0000 | |
| Beam 17: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 405.2210 | -397.5481 | -196.1887 | 0.0000 | |
| Beam 17: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 438.8559 | -352.5077 | -191.2182 | 0.0000 | |
| Beam 17: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 499.3072 | -379.5760 | -140.8766 | 0.0000 | |
| Beam 17: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 293.5525 | -179.5016 | -105.5032 | 0.0000 | |
| Beam 17: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 473.8228 | -404.8097 | -198.0319 | 0.0000 | |
| Beam 17: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 201.7522 | -89.9382 | -96.9216 | 0.0000 | |
| Beam 17: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 423.3775 | -376.6114 | -216.2997 | 0.0000 | |
| Beam 17: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 453.9681 | -536.7473 | -245.1910 | 0.0000 | |
| Beam 17: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 502.0889 | -537.1463 | -238.2737 | 0.0000 | |
| Beam 17: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 385.5324 | -362.8063 | -215.5616 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 17: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 466.2030 | -402.8981 | -228.6074 | 0.0000 |
| Beam 17: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 431.1944 | -364.6758 | -203.7741 | 0.0000 |
| Beam 17: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 286.9373 | -230.6235 | -92.8722 | 0.0000 |
| Beam 17: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 280.7497 | -221.0339 | -87.4422 | 0.0000 |
| Beam 17: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 277.9586 | -248.6606 | -128.8471 | 0.0000 |
| Beam 17: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 271.7710 | -239.0710 | -123.4171 | 0.0000 |
| Beam 17: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 283.1504 | -257.3816 | -110.3266 | 0.0000 |
| Beam 17: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 262.5253 | -225.4163 | -92.2266 | 0.0000 |
| Beam 17: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 280.4568 | -262.7927 | -121.1191 | 0.0000 |
| Beam 17: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 259.8316 | -230.8274 | -103.0191 | 0.0000 |
| Beam 17: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 282.0287 | -225.4782 | -89.5777 | 0.0000 |
| Beam 17: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 275.8411 | -215.8886 | -84.1477 | 0.0000 |
| Beam 17: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 273.0500 | -243.5153 | -125.5526 | 0.0000 |
| Beam 17: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 266.8624 | -233.9257 | -120.1226 | 0.0000 |
| Beam 17: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 278.2419 | -252.2363 | -107.0321 | 0.0000 |
| Beam 17: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 257.6167 | -220.2710 | -88.9321 | 0.0000 |
| Beam 17: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 275.5483 | -257.6474 | -117.8246 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|
| Beam 17: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 254.9231 | -225.6821 | -99.7246 |
| Beam 17: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 349.7724 | -335.4205 | -143.6599 |
| Beam 17: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 320.6963 | -237.8169 | -105.8194 |
| Beam 17: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 400.0570 | -344.0982 | -113.8381 |
| Beam 17: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 331.3320 | -312.8122 | -128.4392 |
| Beam 17: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 301.6175 | -216.2225 | -91.6448 |
| Beam 17: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 380.4227 | -323.5169 | -100.6601 |
| Beam 17: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 393.6495 | -334.5288 | -132.3390 |
| Beam 17: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 369.5056 | -308.1686 | -115.2126 |
| Beam 17: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 191.4006 | -150.8275 | -81.7633 |
| Beam 17: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 362.7755 | -301.8625 | -114.6172 |
| Beam 17: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 343.4604 | -280.7743 | -100.9160 |
| Beam 17: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 589.8741 | 587.1788 | 272.7693 |
| Beam 17: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 589.8741 | 587.1788 | 272.7693 |
| Beam 17: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 286.9373 | 262.7927 | 128.8471 |
| Beam 17: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 400.0570 | 344.0982 | 143.6599 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSLO900001 | A |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 17: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 362.7755 | 301.8625 | 114.6172 | |
| 0.0000 | | | | | | |
| Beam 17: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 191.4006 | 150.8275 | 81.7633 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | -103.0524 | -15.6510 | 0.0000 |
| Beam 17: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -33.6671 | 4.5287 | 0.0000 |
| Beam 17: End 2: 3: SPTSX | 0.0000 | 0.0000 | 13.7574 | 41.9011 | 2.2072 | 0.0000 |
| Beam 17: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -7.7014 | -6.2634 | 0.0000 |
| Beam 17: End 2: 5: SPTW | 0.0000 | 0.0000 | -70.7173 | 19.8507 | -57.5106 | 0.0000 |
| Beam 17: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -128.6852 | -95.7180 | 0.0000 |
| Beam 17: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -104.7897 | -77.9441 | 0.0000 |
| Beam 17: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 14.4669 | 34.2750 | 3.5426 | 0.0000 |
| Beam 17: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -8.3566 | -6.8328 | 0.0000 |
| Beam 17: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 11.8346 | 28.0392 | 2.8951 | 0.0000 |
| Beam 17: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -6.8332 | -5.5871 | 0.0000 |
| Beam 17: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 21.4749 | 17.9723 | 0.0000 |
| Beam 17: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 20.6936 | 17.3185 | 0.0000 |
| Beam 17: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 17: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 43.7380 | 7.5707 | 0.0000 |
| Beam 17: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -32.6577 | -5.6528 | 0.0000 |
| Beam 17: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -1.7292 | 45.2878 | 0.0000 |
| Beam 17: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 17.6402 | 36.5448 | 23.1060 | 0.0000 |
| Beam 17: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -12.1670 | -9.0500 | 0.0000 |
| Beam 17: End 2: 20: SPSSX | 0.0000 | 0.0000 | 17.5869 | 41.9886 | 3.0160 | 0.0000 |
| Beam 17: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -8.8629 | -7.2211 | 0.0000 |
| Beam 17: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 465.3729 | -241.3271 | -183.4970 | 0.0000 |
| Beam 17: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 575.8196 | -371.5852 | -149.6969 | 0.0000 |
| Beam 17: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 419.6449 | -284.0781 | -208.7625 | 0.0000 |
| Beam 17: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 445.4370 | -219.7140 | -202.8532 | 0.0000 |
| Beam 17: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 505.8883 | -224.4152 | -152.5116 | 0.0000 |
| Beam 17: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 270.1874 | -66.9544 | -92.3142 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 17: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 480.4039 | -259.0782 | -209.6668 | 0.0000 |
| Beam 17: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 178.3871 | -11.3571 | -86.9085 | 0.0000 |
| Beam 17: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 429.3800 | -250.6776 | -228.8828 | 0.0000 |
| Beam 17: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 466.8067 | -408.5827 | -260.5190 | 0.0000 |
| Beam 17: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 512.4210 | -382.9494 | -251.0445 | 0.0000 |
| Beam 17: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 395.8645 | -251.7354 | -228.3324 | 0.0000 |
| Beam 17: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 431.6099 | -216.8534 | -159.6118 | 0.0000 |
| Beam 17: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 545.8734 | -338.0695 | -124.8729 | 0.0000 |
| Beam 17: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 389.6987 | -250.5625 | -183.9385 | 0.0000 |
| Beam 17: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 411.6739 | -195.2402 | -178.9680 | 0.0000 |
| Beam 17: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 472.1252 | -199.9415 | -128.6264 | 0.0000 |
| Beam 17: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 266.3705 | -75.9964 | -93.2530 | 0.0000 |
| Beam 17: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 446.6409 | -234.6045 | -185.7816 | 0.0000 |
| Beam 17: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 174.5702 | -20.3991 | -87.8473 | 0.0000 |
| Beam 17: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 396.1955 | -225.0710 | -204.0495 | 0.0000 |
| Beam 17: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 438.4458 | -371.7253 | -232.9408 | 0.0000 |
| Beam 17: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 479.9999 | -355.5344 | -226.0235 | 0.0000 |
| Beam 17: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 363.4433 | -224.3204 | -203.3114 | 0.0000 |
| Beam 17: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 437.1969 | -235.8497 | -216.3572 | 0.0000 |
| Beam 17: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 404.0124 | -210.2431 | -191.5239 | 0.0000 |
| Beam 17: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 269.4529 | -127.7510 | -83.7980 | 0.0000 |
| Beam 17: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 263.2654 | -120.4508 | -78.3680 | 0.0000 |
| Beam 17: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 255.7234 | -149.9891 | -119.7728 | 0.0000 |
| Beam 17: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 249.5359 | -142.6889 | -114.3428 | 0.0000 |
| Beam 17: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 267.0984 | -155.6452 | -101.2524 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|
| Beam 17: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 246.4732 | -131.3112 | -83.1524 |
| 0.0000 | | | | | |
| Beam 17: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 262.9795 | -162.3167 | -112.0448 |
| 0.0000 | | | | | |
| Beam 17: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 242.3543 | -137.9827 | -93.9448 |
| 0.0000 | | | | | |
| Beam 17: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 264.7959 | -124.3753 | -80.5035 |
| 0.0000 | | | | | |
| Beam 17: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 258.6084 | -117.0751 | -75.0735 |
| 0.0000 | | | | | |
| Beam 17: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 251.0664 | -146.6134 | -116.4783 |
| 0.0000 | | | | | |
| Beam 17: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 244.8789 | -139.3132 | -111.0483 |
| 0.0000 | | | | | |
| Beam 17: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 262.4414 | -152.2696 | -97.9579 |
| 0.0000 | | | | | |
| Beam 17: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 241.8162 | -127.9356 | -79.8579 |
| 0.0000 | | | | | |
| Beam 17: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 258.3225 | -158.9410 | -108.7503 |
| 0.0000 | | | | | |
| Beam 17: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 237.6974 | -134.6070 | -90.6503 |
| 0.0000 | | | | | |
| Beam 17: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 330.1828 | -209.6885 | -134.5857 |
| 0.0000 | | | | | |
| Beam 17: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 301.1066 | -122.8431 | -96.7451 |
| 0.0000 | | | | | |
| Beam 17: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 380.4674 | -199.7608 | -104.7638 |
| 0.0000 | | | | | |
| Beam 17: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 312.7487 | -193.7170 | -119.3649 |
| 0.0000 | | | | | |
| Beam 17: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 283.0342 | -108.1216 | -82.5706 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|-----------|--------|
| Beam 17: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 361.8395 | -186.2581 | -91.5858 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 372.6760 | -192.8183 | -123.2648 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 349.7901 | -175.1586 | -106.1383 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 177.3461 | -82.6690 | -72.6891 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 343.1859 | -171.3193 | -105.5429 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 324.8772 | -157.1915 | -91.8418 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 575.8196 | 408.5827 | 260.5190 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 575.8196 | 408.5827 | 260.5190 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 269.4529 | 162.3167 | 119.7728 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 380.4674 | 209.6885 | 134.5857 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 343.1859 | 171.3193 | 105.5429 | |
| 0.0000 | | | | | | |
| Beam 17: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 177.3461 | 82.6690 | 72.6891 | |
| 0.0000 | | | | | | |
| Beam 18: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | -103.0524 | -15.6510 | 0.0000 |
| Beam 18: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -33.6671 | 4.5287 | 0.0000 |
| Beam 18: End 1: 3: SPTSX | 0.0000 | 0.0000 | 13.7574 | 41.9011 | 2.2072 | 0.0000 |
| Beam 18: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -7.7014 | -6.2634 | 0.0000 |
| Beam 18: End 1: 5: SPTW | 0.0000 | 0.0000 | -70.7173 | 19.8507 | -57.5106 | 0.0000 |
| Beam 18: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -128.6852 | -95.7180 | 0.0000 |
| Beam 18: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -104.7897 | -77.9441 | 0.0000 |
| Beam 18: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 14.4669 | 34.2750 | 3.5426 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 18: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -8.3566 | -6.8328 | 0.0000 |
| Beam 18: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 11.8346 | 28.0392 | 2.8951 | 0.0000 |
| Beam 18: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -6.8332 | -5.5871 | 0.0000 |
| Beam 18: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 21.4749 | 17.9723 | 0.0000 |
| Beam 18: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 20.6936 | 17.3185 | 0.0000 |
| Beam 18: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 18: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 43.7380 | 7.5707 | 0.0000 |
| Beam 18: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -32.6577 | -5.6528 | 0.0000 |
| Beam 18: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | -1.7292 | 45.2878 | 0.0000 |
| Beam 18: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 17.6402 | 36.5448 | 23.1060 | 0.0000 |
| Beam 18: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -12.1670 | -9.0500 | 0.0000 |
| Beam 18: End 1: 20: SPSSX | 0.0000 | 0.0000 | 17.5869 | 41.9886 | 3.0160 | 0.0000 |
| Beam 18: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -8.8629 | -7.2211 | 0.0000 |
| Beam 18: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 465.3729 | -241.3271 | -183.4970 | 0.0000 |
| Beam 18: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 575.8196 | -371.5852 | -149.6969 | 0.0000 |
| Beam 18: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 419.6449 | -284.0781 | -208.7625 | 0.0000 |
| Beam 18: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 445.4370 | -219.7140 | -202.8532 | 0.0000 |
| Beam 18: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 505.8883 | -224.4152 | -152.5116 | 0.0000 |
| Beam 18: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 270.1874 | -66.9544 | -92.3142 | 0.0000 |
| Beam 18: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 480.4039 | -259.0782 | -209.6668 | 0.0000 |
| Beam 18: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 178.3871 | -11.3571 | -86.9085 | 0.0000 |
| Beam 18: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 429.3800 | -250.6776 | -228.8828 | 0.0000 |
| Beam 18: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 466.8067 | -408.5827 | -260.5190 | 0.0000 |
| Beam 18: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 512.4210 | -382.9494 | -251.0445 | 0.0000 |
| Beam 18: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 395.8645 | -251.7354 | -228.3324 | 0.0000 |
| Beam 18: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 431.6099 | -216.8534 | -159.6118 | 0.0000 |
| Beam 18: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 545.8734 | -338.0695 | -124.8729 | 0.0000 |
| Beam 18: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 389.6987 | -250.5625 | -183.9385 | 0.0000 |
| Beam 18: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 411.6739 | -195.2402 | -178.9680 | 0.0000 |
| Beam 18: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 472.1252 | -199.9415 | -128.6264 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 18: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 266.3705 | -75.9964 | -93.2530 | 0.0000 |
| Beam 18: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 446.6409 | -234.6045 | -185.7816 | 0.0000 |
| Beam 18: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 174.5702 | -20.3991 | -87.8473 | 0.0000 |
| Beam 18: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 396.1955 | -225.0710 | -204.0495 | 0.0000 |
| Beam 18: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 438.4458 | -371.7253 | -232.9408 | 0.0000 |
| Beam 18: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 479.9999 | -355.5344 | -226.0235 | 0.0000 |
| Beam 18: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 363.4433 | -224.3204 | -203.3114 | 0.0000 |
| Beam 18: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 437.1969 | -235.8497 | -216.3572 | 0.0000 |
| Beam 18: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 404.0124 | -210.2431 | -191.5239 | 0.0000 |
| Beam 18: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 269.4529 | -127.7510 | -83.7980 | 0.0000 |
| Beam 18: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 263.2654 | -120.4508 | -78.3680 | 0.0000 |
| Beam 18: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 255.7234 | -149.9891 | -119.7728 | 0.0000 |
| Beam 18: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 249.5359 | -142.6889 | -114.3428 | 0.0000 |
| Beam 18: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 267.0984 | -155.6452 | -101.2524 | 0.0000 |
| Beam 18: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 246.4732 | -131.3112 | -83.1524 | 0.0000 |
| Beam 18: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 262.9795 | -162.3167 | -112.0448 | 0.0000 |
| Beam 18: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 242.3543 | -137.9827 | -93.9448 | 0.0000 |
| Beam 18: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 264.7959 | -124.3753 | -80.5035 | 0.0000 |
| Beam 18: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 258.6084 | -117.0751 | -75.0735 | 0.0000 |
| Beam 18: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 251.0664 | -146.6134 | -116.4783 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|
| Beam 18: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 244.8789 | -139.3132 | -111.0483 |
| Beam 18: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 262.4414 | -152.2696 | -97.9579 |
| Beam 18: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 241.8162 | -127.9356 | -79.8579 |
| Beam 18: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 258.3225 | -158.9410 | -108.7503 |
| Beam 18: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 237.6974 | -134.6070 | -90.6503 |
| Beam 18: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 330.1828 | -209.6885 | -134.5857 |
| Beam 18: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 301.1066 | -122.8431 | -96.7451 |
| Beam 18: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 380.4674 | -199.7608 | -104.7638 |
| Beam 18: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 312.7487 | -193.7170 | -119.3649 |
| Beam 18: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 283.0342 | -108.1216 | -82.5706 |
| Beam 18: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 361.8395 | -186.2581 | -91.5858 |
| Beam 18: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 372.6760 | -192.8183 | -123.2648 |
| Beam 18: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 349.7901 | -175.1586 | -106.1383 |
| Beam 18: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 177.3461 | -82.6690 | -72.6891 |
| Beam 18: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 343.1859 | -171.3193 | -105.5429 |
| Beam 18: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 324.8772 | -157.1915 | -91.8418 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



| | | | | | | | |
|---|--------|--------|----------|----------|----------|--------|--|
| Beam 18: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 575.8196 | 408.5827 | 260.5190 | | |
| 0.0000 | | | | | | | |
| Beam 18: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 575.8196 | 408.5827 | 260.5190 | | |
| 0.0000 | | | | | | | |
| Beam 18: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 269.4529 | 162.3167 | 119.7728 | | |
| 0.0000 | | | | | | | |
| Beam 18: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 380.4674 | 209.6885 | 134.5857 | | |
| 0.0000 | | | | | | | |
| Beam 18: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 343.1859 | 171.3193 | 105.5429 | | |
| 0.0000 | | | | | | | |
| Beam 18: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 177.3461 | 82.6690 | 72.6891 | | |
| 0.0000 | | | | | | | |
| Beam 18: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | -37.5294 | -6.3315 | 0.0000 | |
| Beam 18: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -8.8576 | 4.5287 | 0.0000 | |
| Beam 18: End 2: 3: SPTSX | 0.0000 | 0.0000 | 4.1814 | 45.2926 | 2.2072 | 0.0000 | |
| Beam 18: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -8.9975 | -6.2634 | 0.0000 | |
| Beam 18: End 2: 5: SPTW | 0.0000 | 0.0000 | -73.5977 | -7.6147 | -57.5106 | 0.0000 | |
| Beam 18: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -87.2379 | -95.7180 | 0.0000 | |
| Beam 18: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -71.0387 | -77.9441 | 0.0000 | |
| Beam 18: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 7.3609 | 38.4223 | 3.5426 | 0.0000 | |
| Beam 18: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -9.8036 | -6.8328 | 0.0000 | |
| Beam 18: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 6.0206 | 31.4317 | 2.8951 | 0.0000 | |
| Beam 18: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -8.0164 | -5.5871 | 0.0000 | |
| Beam 18: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 25.6422 | 17.9723 | 0.0000 | |
| Beam 18: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 24.7093 | 17.3185 | 0.0000 | |
| Beam 18: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 18: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 28.9742 | 7.5707 | 0.0000 | |
| Beam 18: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -21.6341 | -5.6528 | 0.0000 | |
| Beam 18: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 18.4649 | 45.2878 | 0.0000 | |
| Beam 18: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 15.5388 | 42.8488 | 23.1060 | 0.0000 | |
| Beam 18: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -8.2482 | -9.0500 | 0.0000 | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 18: End 2: 20: SPSSX | 0.0000 | 0.0000 | 8.5049 | 46.9461 | 3.0160 | 0.0000 | |
| Beam 18: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -10.3692 | -7.2211 | 0.0000 | |
| Beam 18: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 442.6128 | -68.8721 | -170.9157 | 0.0000 | |
| Beam 18: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 563.3632 | -155.2028 | -137.1156 | 0.0000 | |
| Beam 18: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 406.1804 | -127.2496 | -196.1811 | 0.0000 | |
| Beam 18: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 418.3171 | -55.6848 | -190.2719 | 0.0000 | |
| Beam 18: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 478.7685 | -37.4146 | -139.9303 | 0.0000 | |
| Beam 18: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 243.0676 | 30.4799 | -79.7329 | 0.0000 | |
| Beam 18: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 453.2841 | -81.7616 | -197.0855 | 0.0000 | |
| Beam 18: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 151.2673 | 51.1931 | -77.5890 | 0.0000 | |
| Beam 18: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 402.2602 | -92.7501 | -216.3015 | 0.0000 | |
| Beam 18: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 453.3421 | -233.8327 | -247.9377 | 0.0000 | |
| Beam 18: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 490.7135 | -192.4321 | -238.4632 | 0.0000 | |
| Beam 18: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 374.1570 | -105.5096 | -215.7511 | 0.0000 | |
| Beam 18: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 410.7232 | -56.8724 | -147.0305 | 0.0000 | |
| Beam 18: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 533.4170 | -133.0667 | -112.2916 | 0.0000 | |
| Beam 18: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 376.2342 | -105.1135 | -171.3572 | 0.0000 | |
| Beam 18: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 386.4275 | -43.6851 | -166.3867 | 0.0000 | |
| Beam 18: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 446.8788 | -25.4149 | -116.0451 | 0.0000 | |
| Beam 18: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 241.1241 | 20.3434 | -80.6717 | 0.0000 | |
| Beam 18: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 421.3944 | -69.7619 | -173.2003 | 0.0000 | |
| Beam 18: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 149.3238 | 41.0567 | -78.5278 | 0.0000 | |
| Beam 18: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 370.9491 | -79.3977 | -191.4681 | 0.0000 | |
| Beam 18: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 424.9813 | -207.7524 | -220.3594 | 0.0000 | |
| Beam 18: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 459.7911 | -177.0524 | -213.4421 | 0.0000 | |
| Beam 18: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 343.2345 | -90.1299 | -190.7300 | 0.0000 | |
| Beam 18: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 410.0771 | -74.9518 | -203.7759 | 0.0000 | |
| Beam 18: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 378.7660 | -61.5993 | -178.9425 | 0.0000 | |
| Beam 18: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 253.4739 | -28.4573 | -74.4785 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|
| Beam 18: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 247.2864 | -23.5083 | -69.0485 |
| 0.0000 | | | | | |
| Beam 18: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 234.8652 | -56.8396 | -110.4533 |
| 0.0000 | | | | | |
| Beam 18: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 228.6777 | -51.8906 | -105.0233 |
| 0.0000 | | | | | |
| Beam 18: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 252.5903 | -56.9667 | -91.9329 |
| 0.0000 | | | | | |
| Beam 18: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 231.9652 | -40.4703 | -73.8329 |
| 0.0000 | | | | | |
| Beam 18: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 247.0077 | -65.4814 | -102.7253 |
| 0.0000 | | | | | |
| Beam 18: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 226.3825 | -48.9850 | -84.6253 |
| 0.0000 | | | | | |
| Beam 18: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 249.0753 | -26.8021 | -71.1840 |
| 0.0000 | | | | | |
| Beam 18: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 242.8878 | -21.8532 | -65.7540 |
| 0.0000 | | | | | |
| Beam 18: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 230.4666 | -55.1844 | -107.1588 |
| 0.0000 | | | | | |
| Beam 18: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 224.2791 | -50.2355 | -101.7288 |
| 0.0000 | | | | | |
| Beam 18: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 248.1918 | -55.3116 | -88.6384 |
| 0.0000 | | | | | |
| Beam 18: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 227.5666 | -38.8152 | -70.5384 |
| 0.0000 | | | | | |
| Beam 18: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 242.6092 | -63.8263 | -99.4308 |
| 0.0000 | | | | | |
| Beam 18: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 221.9840 | -47.3299 | -81.3308 |
| 0.0000 | | | | | |
| Beam 18: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 312.0416 | -87.7282 | -125.2662 |
| 0.0000 | | | | | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|----------|-----------|
| Beam 18: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 282.9654 | -11.9317 | -87.4256 |
| 0.0000 | | | | | |
| Beam 18: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 362.3262 | -58.6924 | -95.4443 |
| 0.0000 | | | | | |
| Beam 18: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 295.6411 | -78.1852 | -110.0454 |
| 0.0000 | | | | | |
| Beam 18: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 265.9266 | -3.8814 | -73.2511 |
| 0.0000 | | | | | |
| Beam 18: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 344.7319 | -52.0719 | -82.2663 |
| 0.0000 | | | | | |
| Beam 18: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 353.1136 | -54.9806 | -113.9453 |
| 0.0000 | | | | | |
| Beam 18: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 331.5197 | -45.7720 | -96.8188 |
| 0.0000 | | | | | |
| Beam 18: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 164.8897 | -17.7066 | -63.3696 |
| 0.0000 | | | | | |
| Beam 18: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 325.0447 | -44.4178 | -96.2234 |
| 0.0000 | | | | | |
| Beam 18: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 307.7696 | -37.0509 | -82.5223 |
| 0.0000 | | | | | |
| Beam 18: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 563.3632 | 233.8327 | 247.9377 |
| 0.0000 | | | | | |
| Beam 18: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 563.3632 | 233.8327 | 247.9377 |
| 0.0000 | | | | | |
| Beam 18: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 253.4739 | 65.4814 | 110.4533 |
| 0.0000 | | | | | |
| Beam 18: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 362.3262 | 87.7282 | 125.2662 |
| 0.0000 | | | | | |
| Beam 18: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 325.0447 | 44.4178 | 96.2234 |
| 0.0000 | | | | | |
| Beam 18: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 164.8897 | 17.7066 | 63.3696 |
| 0.0000 | | | | | |
| Beam 19: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | -37.5294 | -6.3315 |
| | | | | 0.0000 | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSLO900001 | A |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 19: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | -8.8576 | 4.5287 | 0.0000 |
| Beam 19: End 1: 3: SPTSX | 0.0000 | 0.0000 | 4.1814 | 45.2926 | 2.2072 | 0.0000 |
| Beam 19: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -8.9975 | -6.2634 | 0.0000 |
| Beam 19: End 1: 5: SPTW | 0.0000 | 0.0000 | -73.5977 | -7.6147 | -57.5106 | 0.0000 |
| Beam 19: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -87.2379 | -95.7180 | 0.0000 |
| Beam 19: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -71.0387 | -77.9441 | 0.0000 |
| Beam 19: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 7.3609 | 38.4223 | 3.5426 | 0.0000 |
| Beam 19: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -9.8036 | -6.8328 | 0.0000 |
| Beam 19: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 6.0206 | 31.4317 | 2.8951 | 0.0000 |
| Beam 19: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -8.0164 | -5.5871 | 0.0000 |
| Beam 19: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 25.6422 | 17.9723 | 0.0000 |
| Beam 19: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 24.7093 | 17.3185 | 0.0000 |
| Beam 19: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 19: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 28.9742 | 7.5707 | 0.0000 |
| Beam 19: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -21.6341 | -5.6528 | 0.0000 |
| Beam 19: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 18.4649 | 45.2878 | 0.0000 |
| Beam 19: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 15.5388 | 42.8488 | 23.1060 | 0.0000 |
| Beam 19: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -8.2482 | -9.0500 | 0.0000 |
| Beam 19: End 1: 20: SPSSX | 0.0000 | 0.0000 | 8.5049 | 46.9461 | 3.0160 | 0.0000 |
| Beam 19: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -10.3692 | -7.2211 | 0.0000 |
| Beam 19: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 442.6128 | -68.8721 | -170.9157 | 0.0000 |
| Beam 19: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 563.3632 | -155.2028 | -137.1156 | 0.0000 |
| Beam 19: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 406.1804 | -127.2496 | -196.1811 | 0.0000 |
| Beam 19: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 418.3171 | -55.6848 | -190.2719 | 0.0000 |
| Beam 19: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 478.7685 | -37.4146 | -139.9303 | 0.0000 |
| Beam 19: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 243.0676 | 30.4799 | -79.7329 | 0.0000 |
| Beam 19: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 453.2841 | -81.7616 | -197.0855 | 0.0000 |
| Beam 19: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 151.2673 | 51.1931 | -77.5890 | 0.0000 |
| Beam 19: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 402.2602 | -92.7501 | -216.3015 | 0.0000 |
| Beam 19: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 453.3421 | -233.8327 | -247.9377 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 19: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 490.7135 | -192.4321 | -238.4632 | 0.0000 |
| Beam 19: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 374.1570 | -105.5096 | -215.7511 | 0.0000 |
| Beam 19: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 410.7232 | -56.8724 | -147.0305 | 0.0000 |
| Beam 19: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 533.4170 | -133.0667 | -112.2916 | 0.0000 |
| Beam 19: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 376.2342 | -105.1135 | -171.3572 | 0.0000 |
| Beam 19: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 386.4275 | -43.6851 | -166.3867 | 0.0000 |
| Beam 19: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 446.8788 | -25.4149 | -116.0451 | 0.0000 |
| Beam 19: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 241.1241 | 20.3434 | -80.6717 | 0.0000 |
| Beam 19: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 421.3944 | -69.7619 | -173.2003 | 0.0000 |
| Beam 19: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 149.3238 | 41.0567 | -78.5278 | 0.0000 |
| Beam 19: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 370.9491 | -79.3977 | -191.4681 | 0.0000 |
| Beam 19: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 424.9813 | -207.7524 | -220.3594 | 0.0000 |
| Beam 19: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 459.7911 | -177.0524 | -213.4421 | 0.0000 |
| Beam 19: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 343.2345 | -90.1299 | -190.7300 | 0.0000 |
| Beam 19: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 410.0771 | -74.9518 | -203.7759 | 0.0000 |
| Beam 19: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 378.7660 | -61.5993 | -178.9425 | 0.0000 |
| Beam 19: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 253.4739 | -28.4573 | -74.4785 | 0.0000 |
| Beam 19: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 247.2864 | -23.5083 | -69.0485 | 0.0000 |
| Beam 19: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 234.8652 | -56.8396 | -110.4533 | 0.0000 |
| Beam 19: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 228.6777 | -51.8906 | -105.0233 | 0.0000 |
| Beam 19: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 252.5903 | -56.9667 | -91.9329 | 0.0000 |
| Beam 19: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 231.9652 | -40.4703 | -73.8329 | 0.0000 |
| Beam 19: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 247.0077 | -65.4814 | -102.7253 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 19: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 226.3825 | -48.9850 | -84.6253 |
| Beam 19: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 249.0753 | -26.8021 | -71.1840 |
| Beam 19: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 242.8878 | -21.8532 | -65.7540 |
| Beam 19: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 230.4666 | -55.1844 | -107.1588 |
| Beam 19: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 224.2791 | -50.2355 | -101.7288 |
| Beam 19: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 248.1918 | -55.3116 | -88.6384 |
| Beam 19: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 227.5666 | -38.8152 | -70.5384 |
| Beam 19: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 242.6092 | -63.8263 | -99.4308 |
| Beam 19: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 221.9840 | -47.3299 | -81.3308 |
| Beam 19: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 312.0416 | -87.7282 | -125.2662 |
| Beam 19: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 282.9654 | -11.9317 | -87.4256 |
| Beam 19: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 362.3262 | -58.6924 | -95.4443 |
| Beam 19: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 295.6411 | -78.1852 | -110.0454 |
| Beam 19: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 265.9266 | -3.8814 | -73.2511 |
| Beam 19: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 344.7319 | -52.0719 | -82.2663 |
| Beam 19: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 353.1136 | -54.9806 | -113.9453 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 19: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 331.5197 | -45.7720 | -96.8188 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 164.8897 | -17.7066 | -63.3696 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 325.0447 | -44.4178 | -96.2234 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 307.7696 | -37.0509 | -82.5223 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 563.3632 | 233.8327 | 247.9377 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 563.3632 | 233.8327 | 247.9377 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 253.4739 | 65.4814 | 110.4533 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 362.3262 | 87.7282 | 125.2662 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 325.0447 | 44.4178 | 96.2234 | |
| 0.0000 | | | | | | |
| Beam 19: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 164.8897 | 17.7066 | 63.3696 | |
| 0.0000 | | | | | | |
| Beam 19: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | 27.9936 | 2.9880 | 0.0000 |
| Beam 19: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 15.9518 | 4.5287 | 0.0000 |
| Beam 19: End 2: 3: SPTSX | 0.0000 | 0.0000 | -4.8436 | 45.1487 | 2.2072 | 0.0000 |
| Beam 19: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -10.2936 | -6.2634 | 0.0000 |
| Beam 19: End 2: 5: SPTW | 0.0000 | 0.0000 | -75.0417 | -35.9016 | -57.5106 | 0.0000 |
| Beam 19: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -45.7906 | -95.7180 | 0.0000 |
| Beam 19: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -37.2877 | -77.9441 | 0.0000 |
| Beam 19: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 0.2549 | 39.8693 | 3.5426 | 0.0000 |
| Beam 19: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -11.2506 | -6.8328 | 0.0000 |
| Beam 19: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 0.2066 | 32.6148 | 2.8951 | 0.0000 |
| Beam 19: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -9.1995 | -5.5871 | 0.0000 |
| Beam 19: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 29.8095 | 17.9723 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 19: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 28.7249 | 17.3185 | 0.0000 | |
| Beam 19: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 19: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 14.2104 | 7.5707 | 0.0000 | |
| Beam 19: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -10.6104 | -5.6528 | 0.0000 | |
| Beam 19: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 38.6590 | 45.2878 | 0.0000 | |
| Beam 19: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 13.4374 | 48.3542 | 23.1060 | 0.0000 | |
| Beam 19: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -4.3294 | -9.0500 | 0.0000 | |
| Beam 19: End 2: 20: SPSSX | 0.0000 | 0.0000 | -0.5771 | 48.4524 | 3.0160 | 0.0000 | |
| Beam 19: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -11.8755 | -7.2211 | 0.0000 | |
| Beam 19: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 421.8401 | 95.3104 | -158.3343 | 0.0000 | |
| Beam 19: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 552.8942 | 56.8226 | -124.5343 | 0.0000 | |
| Beam 19: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 395.2060 | 24.9344 | -183.5998 | 0.0000 | |
| Beam 19: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 393.8803 | 98.5469 | -177.6905 | 0.0000 | |
| Beam 19: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 454.3316 | 139.7886 | -127.3489 | 0.0000 | |
| Beam 19: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 218.6307 | 118.1168 | -67.1516 | 0.0000 | |
| Beam 19: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 428.8472 | 85.7576 | -184.5042 | 0.0000 | |
| Beam 19: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 126.8304 | 103.9459 | -68.2695 | 0.0000 | |
| Beam 19: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 377.8234 | 55.3800 | -203.7201 | 0.0000 | |
| Beam 19: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 442.3677 | -63.7273 | -235.3564 | 0.0000 | |
| Beam 19: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 471.4962 | -9.6917 | -225.8819 | 0.0000 | |
| Beam 19: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 354.9396 | 32.9393 | -203.1698 | 0.0000 | |
| Beam 19: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 391.8239 | 95.5480 | -134.4492 | 0.0000 | |
| Beam 19: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 522.9480 | 67.5792 | -99.7103 | 0.0000 | |
| Beam 19: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 365.2598 | 35.6909 | -158.7758 | 0.0000 | |
| Beam 19: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 363.8640 | 98.7845 | -153.8053 | 0.0000 | |
| Beam 19: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 424.3153 | 140.0262 | -103.4637 | 0.0000 | |
| Beam 19: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 218.5606 | 107.5978 | -68.0904 | 0.0000 | |
| Beam 19: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 398.8310 | 85.9951 | -160.6190 | 0.0000 | |
| Beam 19: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 126.7603 | 93.4269 | -69.2083 | 0.0000 | |
| Beam 19: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 348.3856 | 57.1902 | -178.8868 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 19: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 414.0069 | -48.4241 | -207.7781 | 0.0000 |
| Beam 19: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 442.0724 | -5.7778 | -200.8608 | 0.0000 |
| Beam 19: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 325.5159 | 36.8533 | -178.1487 | 0.0000 |
| Beam 19: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 385.6402 | 76.1487 | -191.1945 | 0.0000 |
| Beam 19: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 356.2025 | 77.9589 | -166.3612 | 0.0000 |
| Beam 19: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 239.4823 | 65.1409 | -65.1590 | 0.0000 |
| Beam 19: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 233.2948 | 67.7385 | -59.7290 | 0.0000 |
| Beam 19: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 215.9944 | 28.7602 | -101.1338 | 0.0000 |
| Beam 19: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 209.8069 | 31.3579 | -95.7038 | 0.0000 |
| Beam 19: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 240.0697 | 36.5751 | -82.6134 | 0.0000 |
| Beam 19: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 219.4445 | 45.2340 | -64.5134 | 0.0000 |
| Beam 19: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 233.0233 | 25.6609 | -93.4058 | 0.0000 |
| Beam 19: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 212.3982 | 34.3198 | -75.3058 | 0.0000 |
| Beam 19: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 235.3421 | 65.1736 | -61.8645 | 0.0000 |
| Beam 19: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 229.1546 | 67.7713 | -56.4345 | 0.0000 |
| Beam 19: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 211.8542 | 28.7930 | -97.8393 | 0.0000 |
| Beam 19: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 205.6667 | 31.3907 | -92.4093 | 0.0000 |
| Beam 19: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 235.9295 | 36.6079 | -79.3189 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 19: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 215.3044 | 45.2668 | -61.2189 |
| Beam 19: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 228.8832 | 25.6937 | -90.1113 |
| Beam 19: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 208.2580 | 34.3526 | -72.0113 |
| Beam 19: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 295.8878 | 27.7148 | -115.9467 |
| Beam 19: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 266.8116 | 92.4624 | -78.1061 |
| Beam 19: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 346.1724 | 75.8588 | -86.1248 |
| Beam 19: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 280.5209 | 31.2220 | -100.7259 |
| Beam 19: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 250.8064 | 94.2343 | -63.9316 |
| Beam 19: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 329.6117 | 75.9898 | -72.9468 |
| Beam 19: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 335.5386 | 75.7998 | -104.6258 |
| Beam 19: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 315.2367 | 77.0482 | -87.4993 |
| Beam 19: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 154.4207 | 42.8989 | -54.0501 |
| Beam 19: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 308.8909 | 75.9664 | -86.9039 |
| Beam 19: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 292.6494 | 76.9651 | -73.2028 |
| Beam 19: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 552.8942 | 140.0262 | 235.3564 |
| Beam 19: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 552.8942 | 140.0262 | 235.3564 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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| | | IN17 | 12 | EI2CLSL0900001 | A |

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| Beam 19: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 240.0697 | 67.7713 | 101.1338 | | |
| 0.0000 | | | | | | | |
| Beam 19: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 346.1724 | 94.2343 | 115.9467 | | |
| 0.0000 | | | | | | | |
| Beam 19: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 308.8909 | 76.9651 | 86.9039 | | |
| 0.0000 | | | | | | | |
| Beam 19: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 154.4207 | 42.8989 | 54.0501 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | 27.9936 | 2.9880 | 0.0000 | |
| Beam 20: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 15.9518 | 4.5287 | 0.0000 | |
| Beam 20: End 1: 3: SPTSX | 0.0000 | 0.0000 | -4.8436 | 45.1487 | 2.2072 | 0.0000 | |
| Beam 20: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -10.2936 | -6.2634 | 0.0000 | |
| Beam 20: End 1: 5: SPTW | 0.0000 | 0.0000 | -75.0417 | -35.9016 | -57.5106 | 0.0000 | |
| Beam 20: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -45.7906 | -95.7180 | 0.0000 | |
| Beam 20: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -37.2877 | -77.9441 | 0.0000 | |
| Beam 20: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 0.2549 | 39.8693 | 3.5426 | 0.0000 | |
| Beam 20: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -11.2506 | -6.8328 | 0.0000 | |
| Beam 20: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 0.2066 | 32.6148 | 2.8951 | 0.0000 | |
| Beam 20: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -9.1995 | -5.5871 | 0.0000 | |
| Beam 20: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 29.8095 | 17.9723 | 0.0000 | |
| Beam 20: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 28.7249 | 17.3185 | 0.0000 | |
| Beam 20: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 20: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | 14.2104 | 7.5707 | 0.0000 | |
| Beam 20: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | -10.6104 | -5.6528 | 0.0000 | |
| Beam 20: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 38.6590 | 45.2878 | 0.0000 | |
| Beam 20: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 13.4374 | 48.3542 | 23.1060 | 0.0000 | |
| Beam 20: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -4.3294 | -9.0500 | 0.0000 | |
| Beam 20: End 1: 20: SPSSX | 0.0000 | 0.0000 | -0.5771 | 48.4524 | 3.0160 | 0.0000 | |
| Beam 20: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -11.8755 | -7.2211 | 0.0000 | |
| Beam 20: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 421.8401 | 95.3104 | -158.3343 | 0.0000 | |
| Beam 20: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 552.8942 | 56.8226 | -124.5343 | 0.0000 | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|-----------|--------|
| Beam 20: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 395.2060 | 24.9344 | -183.5998 | 0.0000 |
| Beam 20: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 393.8803 | 98.5469 | -177.6905 | 0.0000 |
| Beam 20: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 454.3316 | 139.7886 | -127.3489 | 0.0000 |
| Beam 20: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 218.6307 | 118.1168 | -67.1516 | 0.0000 |
| Beam 20: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 428.8472 | 85.7576 | -184.5042 | 0.0000 |
| Beam 20: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 126.8304 | 103.9459 | -68.2695 | 0.0000 |
| Beam 20: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 377.8234 | 55.3800 | -203.7201 | 0.0000 |
| Beam 20: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 442.3677 | -63.7273 | -235.3564 | 0.0000 |
| Beam 20: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 471.4962 | -9.6917 | -225.8819 | 0.0000 |
| Beam 20: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 354.9396 | 32.9393 | -203.1698 | 0.0000 |
| Beam 20: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 391.8239 | 95.5480 | -134.4492 | 0.0000 |
| Beam 20: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 522.9480 | 67.5792 | -99.7103 | 0.0000 |
| Beam 20: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 365.2598 | 35.6909 | -158.7758 | 0.0000 |
| Beam 20: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 363.8640 | 98.7845 | -153.8053 | 0.0000 |
| Beam 20: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 424.3153 | 140.0262 | -103.4637 | 0.0000 |
| Beam 20: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 218.5606 | 107.5978 | -68.0904 | 0.0000 |
| Beam 20: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 398.8310 | 85.9951 | -160.6190 | 0.0000 |
| Beam 20: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 126.7603 | 93.4269 | -69.2083 | 0.0000 |
| Beam 20: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 348.3856 | 57.1902 | -178.8868 | 0.0000 |
| Beam 20: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 414.0069 | -48.4241 | -207.7781 | 0.0000 |
| Beam 20: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 442.0724 | -5.7778 | -200.8608 | 0.0000 |
| Beam 20: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 325.5159 | 36.8533 | -178.1487 | 0.0000 |
| Beam 20: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 385.6402 | 76.1487 | -191.1945 | 0.0000 |
| Beam 20: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 356.2025 | 77.9589 | -166.3612 | 0.0000 |
| Beam 20: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 239.4823 | 65.1409 | -65.1590 | 0.0000 |
| Beam 20: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 233.2948 | 67.7385 | -59.7290 | 0.0000 |
| Beam 20: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 215.9944 | 28.7602 | -101.1338 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|---------|-----------|
| Beam 20: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 209.8069 | 31.3579 | -95.7038 |
| 0.0000 | | | | | |
| Beam 20: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 240.0697 | 36.5751 | -82.6134 |
| 0.0000 | | | | | |
| Beam 20: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 219.4445 | 45.2340 | -64.5134 |
| 0.0000 | | | | | |
| Beam 20: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 233.0233 | 25.6609 | -93.4058 |
| 0.0000 | | | | | |
| Beam 20: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 212.3982 | 34.3198 | -75.3058 |
| 0.0000 | | | | | |
| Beam 20: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 235.3421 | 65.1736 | -61.8645 |
| 0.0000 | | | | | |
| Beam 20: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 229.1546 | 67.7713 | -56.4345 |
| 0.0000 | | | | | |
| Beam 20: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 211.8542 | 28.7930 | -97.8393 |
| 0.0000 | | | | | |
| Beam 20: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 205.6667 | 31.3907 | -92.4093 |
| 0.0000 | | | | | |
| Beam 20: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 235.9295 | 36.6079 | -79.3189 |
| 0.0000 | | | | | |
| Beam 20: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 215.3044 | 45.2668 | -61.2189 |
| 0.0000 | | | | | |
| Beam 20: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 228.8832 | 25.6937 | -90.1113 |
| 0.0000 | | | | | |
| Beam 20: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 208.2580 | 34.3526 | -72.0113 |
| 0.0000 | | | | | |
| Beam 20: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 295.8878 | 27.7148 | -115.9467 |
| 0.0000 | | | | | |
| Beam 20: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 266.8116 | 92.4624 | -78.1061 |
| 0.0000 | | | | | |
| Beam 20: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 346.1724 | 75.8588 | -86.1248 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 20: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 280.5209 | 31.2220 | -100.7259 | |
| Beam 20: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 250.8064 | 94.2343 | -63.9316 | |
| Beam 20: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 329.6117 | 75.9898 | -72.9468 | |
| Beam 20: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 335.5386 | 75.7998 | -104.6258 | |
| Beam 20: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 315.2367 | 77.0482 | -87.4993 | |
| Beam 20: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 154.4207 | 42.8989 | -54.0501 | |
| Beam 20: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 308.8909 | 75.9664 | -86.9039 | |
| Beam 20: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 292.6494 | 76.9651 | -73.2028 | |
| Beam 20: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 552.8942 | 140.0262 | 235.3564 | |
| Beam 20: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 552.8942 | 140.0262 | 235.3564 | |
| Beam 20: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 240.0697 | 67.7713 | 101.1338 | |
| Beam 20: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 346.1724 | 94.2343 | 115.9467 | |
| Beam 20: End 1: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 308.8909 | 76.9651 | 86.9039 | |
| Beam 20: End 1: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 154.4207 | 42.8989 | 54.0501 | |
| Beam 20: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | 93.5166 | 12.3075 | 0.0000 |
| Beam 20: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 40.7612 | 4.5287 | 0.0000 |
| Beam 20: End 2: 3: SPTSX | 0.0000 | 0.0000 | -13.3176 | 41.6812 | 2.2072 | 0.0000 |
| Beam 20: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -11.5897 | -6.2634 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|----------|----------|-----------|--------|--|
| Beam 20: End 2: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -64.5094 | -57.5106 | 0.0000 | |
| Beam 20: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -4.3433 | -95.7180 | 0.0000 | |
| Beam 20: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -3.5368 | -77.9441 | 0.0000 | |
| Beam 20: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8511 | 38.6160 | 3.5426 | 0.0000 | |
| Beam 20: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -12.6976 | -6.8328 | 0.0000 | |
| Beam 20: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.6074 | 31.5887 | 2.8951 | 0.0000 | |
| Beam 20: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -10.3827 | -5.5871 | 0.0000 | |
| Beam 20: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 33.9768 | 17.9723 | 0.0000 | |
| Beam 20: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 32.7406 | 17.3185 | 0.0000 | |
| Beam 20: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 20: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -0.5535 | 7.5707 | 0.0000 | |
| Beam 20: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 0.4133 | -5.6528 | 0.0000 | |
| Beam 20: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 58.8531 | 45.2878 | 0.0000 | |
| Beam 20: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 11.3360 | 53.0612 | 23.1060 | 0.0000 | |
| Beam 20: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -0.4106 | -9.0500 | 0.0000 | |
| Beam 20: End 2: 20: SPSSX | 0.0000 | 0.0000 | -9.6591 | 46.5075 | 3.0160 | 0.0000 | |
| Beam 20: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -13.3818 | -7.2211 | 0.0000 | |
| Beam 20: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 402.6995 | 251.9331 | -145.7530 | 0.0000 | |
| Beam 20: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 544.0573 | 265.2036 | -111.9529 | 0.0000 | |
| Beam 20: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 386.2420 | 173.3616 | -171.0185 | 0.0000 | |
| Beam 20: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 371.6468 | 243.9433 | -165.1092 | 0.0000 | |
| Beam 20: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 432.0981 | 308.1565 | -114.7676 | 0.0000 | |
| Beam 20: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 196.3972 | 196.9183 | -54.5703 | 0.0000 | |
| Beam 20: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 406.6137 | 244.4414 | -171.9228 | 0.0000 | |
| Beam 20: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 104.5969 | 147.8633 | -58.9500 | 0.0000 | |
| Beam 20: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 355.5898 | 194.6747 | -191.1388 | 0.0000 | |
| Beam 20: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 433.4038 | 102.6214 | -222.7751 | 0.0000 | |
| Beam 20: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 454.2893 | 166.1596 | -213.3006 | 0.0000 | |
| Beam 20: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 337.7327 | 164.4992 | -190.5885 | 0.0000 | |
| Beam 20: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 374.5567 | 241.1205 | -121.8678 | 0.0000 | |

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|--|--------|--------|----------|----------|-----------|--------|
| Beam 20: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 514.1111 | 264.5806 | -87.1290 | 0.0000 |
| Beam 20: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 356.2959 | 172.7386 | -146.1945 | 0.0000 |
| Beam 20: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 343.5039 | 233.1306 | -141.2240 | 0.0000 |
| Beam 20: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 403.9552 | 297.3438 | -90.8824 | 0.0000 |
| Beam 20: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 198.2005 | 186.7286 | -55.5090 | 0.0000 |
| Beam 20: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 378.4709 | 233.6287 | -148.0376 | 0.0000 |
| Beam 20: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 106.4002 | 137.6736 | -59.8888 | 0.0000 |
| Beam 20: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 328.0255 | 185.6545 | -166.3055 | 0.0000 |
| Beam 20: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 405.0430 | 107.1475 | -195.1968 | 0.0000 |
| Beam 20: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 426.3643 | 159.1773 | -188.2795 | 0.0000 |
| Beam 20: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 309.8077 | 157.5169 | -165.5674 | 0.0000 |
| Beam 20: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 363.4067 | 218.4139 | -178.6132 | 0.0000 |
| Beam 20: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 335.8424 | 209.3937 | -153.7799 | 0.0000 |
| Beam 20: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 227.1228 | 153.7560 | -55.8395 | 0.0000 |
| Beam 20: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 220.9353 | 154.0024 | -50.4095 | 0.0000 |
| Beam 20: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 198.7557 | 107.5229 | -91.8143 | 0.0000 |
| Beam 20: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 192.5682 | 107.7693 | -86.3843 | 0.0000 |
| Beam 20: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 229.1812 | 125.6930 | -73.2939 | 0.0000 |
| Beam 20: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 208.5560 | 126.5143 | -55.1939 | 0.0000 |
| Beam 20: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 220.6711 | 111.8231 | -84.0863 | 0.0000 |
| Beam 20: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 200.0459 | 112.6444 | -65.9863 | 0.0000 |
| Beam 20: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 223.2410 | 152.2646 | -52.5450 | 0.0000 |

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| Beam 20: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 217.0535 | 152.5110 | -47.1150 |
| Beam 20: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 194.8739 | 106.0315 | -88.5198 |
| Beam 20: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 188.6864 | 106.2779 | -83.0898 |
| Beam 20: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 225.2994 | 124.2016 | -69.9994 |
| Beam 20: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 204.6742 | 125.0229 | -51.8994 |
| Beam 20: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 216.7893 | 110.3317 | -80.7918 |
| Beam 20: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 196.1641 | 111.1530 | -62.6918 |
| Beam 20: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 281.3661 | 137.3532 | -106.6272 |
| Beam 20: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 252.2899 | 191.0519 | -68.7866 |
| Beam 20: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 331.6507 | 204.6053 | -76.8053 |
| Beam 20: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 267.0328 | 135.2174 | -91.4064 |
| Beam 20: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 237.3183 | 186.9382 | -54.6121 |
| Beam 20: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 316.1236 | 198.6397 | -63.6273 |
| Beam 20: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 319.5957 | 200.2355 | -95.3063 |
| Beam 20: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 300.5858 | 194.0146 | -78.1798 |
| Beam 20: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 145.5838 | 99.8599 | -44.7306 |

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| Beam 20: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 294.3692 | 190.5460 | -77.5844 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 279.1613 | 185.5693 | -63.8833 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 544.0573 | 308.1565 | 222.7751 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 544.0573 | 308.1565 | 222.7751 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 229.1812 | 154.0024 | 91.8143 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 331.6507 | 204.6053 | 106.6272 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 294.3692 | 190.5460 | 77.5844 | | |
| 0.0000 | | | | | | | |
| Beam 20: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 145.5838 | 99.8599 | 44.7306 | | |
| 0.0000 | | | | | | | |
| Beam 21: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | 93.5166 | 12.3075 | 0.0000 | |
| Beam 21: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 40.7612 | 4.5287 | 0.0000 | |
| Beam 21: End 1: 3: SPTSX | 0.0000 | 0.0000 | -13.3176 | 41.6812 | 2.2072 | 0.0000 | |
| Beam 21: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -11.5897 | -6.2634 | 0.0000 | |
| Beam 21: End 1: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -64.5094 | -57.5106 | 0.0000 | |
| Beam 21: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | -4.3433 | -95.7180 | 0.0000 | |
| Beam 21: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | -3.5368 | -77.9441 | 0.0000 | |
| Beam 21: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8511 | 38.6160 | 3.5426 | 0.0000 | |
| Beam 21: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -12.6976 | -6.8328 | 0.0000 | |
| Beam 21: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.6074 | 31.5887 | 2.8951 | 0.0000 | |
| Beam 21: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -10.3827 | -5.5871 | 0.0000 | |
| Beam 21: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 33.9768 | 17.9723 | 0.0000 | |
| Beam 21: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 32.7406 | 17.3185 | 0.0000 | |
| Beam 21: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 21: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -0.5535 | 7.5707 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|-----------|--------|--|
| Beam 21: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 0.4133 | -5.6528 | 0.0000 | |
| Beam 21: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 58.8531 | 45.2878 | 0.0000 | |
| Beam 21: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 11.3360 | 53.0612 | 23.1060 | 0.0000 | |
| Beam 21: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | -0.4106 | -9.0500 | 0.0000 | |
| Beam 21: End 1: 20: SPSSX | 0.0000 | 0.0000 | -9.6591 | 46.5075 | 3.0160 | 0.0000 | |
| Beam 21: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -13.3818 | -7.2211 | 0.0000 | |
| Beam 21: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 402.6995 | 251.9331 | -145.7530 | 0.0000 | |
| Beam 21: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 544.0573 | 265.2036 | -111.9529 | 0.0000 | |
| Beam 21: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 386.2420 | 173.3616 | -171.0185 | 0.0000 | |
| Beam 21: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 371.6468 | 243.9433 | -165.1092 | 0.0000 | |
| Beam 21: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 432.0981 | 308.1565 | -114.7676 | 0.0000 | |
| Beam 21: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 196.3972 | 196.9183 | -54.5703 | 0.0000 | |
| Beam 21: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 406.6137 | 244.4414 | -171.9228 | 0.0000 | |
| Beam 21: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 104.5969 | 147.8633 | -58.9500 | 0.0000 | |
| Beam 21: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 355.5898 | 194.6747 | -191.1388 | 0.0000 | |
| Beam 21: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 433.4038 | 102.6214 | -222.7751 | 0.0000 | |
| Beam 21: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 454.2893 | 166.1596 | -213.3006 | 0.0000 | |
| Beam 21: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 337.7327 | 164.4992 | -190.5885 | 0.0000 | |
| Beam 21: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 374.5567 | 241.1205 | -121.8678 | 0.0000 | |
| Beam 21: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 514.1111 | 264.5806 | -87.1290 | 0.0000 | |
| Beam 21: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 356.2959 | 172.7386 | -146.1945 | 0.0000 | |
| Beam 21: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 343.5039 | 233.1306 | -141.2240 | 0.0000 | |
| Beam 21: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 403.9552 | 297.3438 | -90.8824 | 0.0000 | |
| Beam 21: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 198.2005 | 186.7286 | -55.5090 | 0.0000 | |
| Beam 21: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 378.4709 | 233.6287 | -148.0376 | 0.0000 | |
| Beam 21: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 106.4002 | 137.6736 | -59.8888 | 0.0000 | |
| Beam 21: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 328.0255 | 185.6545 | -166.3055 | 0.0000 | |
| Beam 21: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 405.0430 | 107.1475 | -195.1968 | 0.0000 | |
| Beam 21: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 426.3643 | 159.1773 | -188.2795 | 0.0000 | |
| Beam 21: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 309.8077 | 157.5169 | -165.5674 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|--------|
| Beam 21: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 363.4067 | 218.4139 | -178.6132 | 0.0000 |
| Beam 21: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 335.8424 | 209.3937 | -153.7799 | 0.0000 |
| Beam 21: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 227.1228 | 153.7560 | -55.8395 | 0.0000 |
| Beam 21: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 220.9353 | 154.0024 | -50.4095 | 0.0000 |
| Beam 21: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 198.7557 | 107.5229 | -91.8143 | 0.0000 |
| Beam 21: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 192.5682 | 107.7693 | -86.3843 | 0.0000 |
| Beam 21: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 229.1812 | 125.6930 | -73.2939 | 0.0000 |
| Beam 21: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 208.5560 | 126.5143 | -55.1939 | 0.0000 |
| Beam 21: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 220.6711 | 111.8231 | -84.0863 | 0.0000 |
| Beam 21: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 200.0459 | 112.6444 | -65.9863 | 0.0000 |
| Beam 21: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 223.2410 | 152.2646 | -52.5450 | 0.0000 |
| Beam 21: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 217.0535 | 152.5110 | -47.1150 | 0.0000 |
| Beam 21: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 194.8739 | 106.0315 | -88.5198 | 0.0000 |
| Beam 21: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 188.6864 | 106.2779 | -83.0898 | 0.0000 |
| Beam 21: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 225.2994 | 124.2016 | -69.9994 | 0.0000 |
| Beam 21: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 204.6742 | 125.0229 | -51.8994 | 0.0000 |
| Beam 21: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 216.7893 | 110.3317 | -80.7918 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 21: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 196.1641 | 111.1530 | -62.6918 |
| Beam 21: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 281.3661 | 137.3532 | -106.6272 |
| Beam 21: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 252.2899 | 191.0519 | -68.7866 |
| Beam 21: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 331.6507 | 204.6053 | -76.8053 |
| Beam 21: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 267.0328 | 135.2174 | -91.4064 |
| Beam 21: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 237.3183 | 186.9382 | -54.6121 |
| Beam 21: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 316.1236 | 198.6397 | -63.6273 |
| Beam 21: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 319.5957 | 200.2355 | -95.3063 |
| Beam 21: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 300.5858 | 194.0146 | -78.1798 |
| Beam 21: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 145.5838 | 99.8599 | -44.7306 |
| Beam 21: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 294.3692 | 190.5460 | -77.5844 |
| Beam 21: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 279.1613 | 185.5693 | -63.8833 |
| Beam 21: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 544.0573 | 308.1565 | 222.7751 |
| Beam 21: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 544.0573 | 308.1565 | 222.7751 |
| Beam 21: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 229.1812 | 154.0024 | 91.8143 |
| Beam 21: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 331.6507 | 204.6053 | 106.6272 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|----------|-----------|--------|
| Beam 21: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 294.3692 | 190.5460 | 77.5844 | |
| 0.0000 | | | | | | |
| Beam 21: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 145.5838 | 99.8599 | 44.7306 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | 157.3153 | 21.3818 | 0.0000 |
| Beam 21: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 64.9178 | 4.5287 | 0.0000 |
| Beam 21: End 2: 3: SPTSX | 0.0000 | 0.0000 | -20.7731 | 35.3413 | 2.2072 | 0.0000 |
| Beam 21: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -12.8517 | -6.2634 | 0.0000 |
| Beam 21: End 2: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -92.4091 | -57.5106 | 0.0000 |
| Beam 21: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 36.0133 | -95.7180 | 0.0000 |
| Beam 21: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 29.3260 | -77.9441 | 0.0000 |
| Beam 21: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -13.7701 | 34.8011 | 3.5426 | 0.0000 |
| Beam 21: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -14.1065 | -6.8328 | 0.0000 |
| Beam 21: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -11.2684 | 28.4666 | 2.8951 | 0.0000 |
| Beam 21: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -11.5347 | -5.5871 | 0.0000 |
| Beam 21: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 38.0344 | 17.9723 | 0.0000 |
| Beam 21: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 36.6506 | 17.3185 | 0.0000 |
| Beam 21: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 21: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -14.9288 | 7.5707 | 0.0000 |
| Beam 21: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 11.1468 | -5.6528 | 0.0000 |
| Beam 21: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 78.5158 | 45.2878 | 0.0000 |
| Beam 21: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 9.2899 | 56.8770 | 23.1060 | 0.0000 |
| Beam 21: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 3.4050 | -9.0500 | 0.0000 |
| Beam 21: End 2: 20: SPSSX | 0.0000 | 0.0000 | -18.5021 | 41.2977 | 3.0160 | 0.0000 |
| Beam 21: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -14.8484 | -7.2211 | 0.0000 |
| Beam 21: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 385.2115 | 397.6636 | -133.5028 | 0.0000 |
| Beam 21: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 536.6018 | 465.0924 | -99.7027 | 0.0000 |
| Beam 21: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 378.7865 | 314.8588 | -158.7682 | 0.0000 |
| Beam 21: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 351.5493 | 377.6899 | -152.8590 | 0.0000 |
| Beam 21: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 412.0006 | 464.2701 | -102.5174 | 0.0000 |
| Beam 21: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 176.2997 | 265.8226 | -42.3200 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|--------|
| Beam 21: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 386.5162 | 391.1258 | -159.6726 | 0.0000 |
| Beam 21: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 84.4994 | 182.8014 | -49.8758 | 0.0000 |
| Beam 21: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 335.4924 | 322.4803 | -178.8886 | 0.0000 |
| Beam 21: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 425.9483 | 261.5685 | -210.5248 | 0.0000 |
| Beam 21: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 438.8077 | 331.3495 | -201.0503 | 0.0000 |
| Beam 21: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 322.2512 | 286.5631 | -178.3382 | 0.0000 |
| Beam 21: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 358.8927 | 376.7755 | -109.6176 | 0.0000 |
| Beam 21: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 506.6556 | 453.3893 | -74.8787 | 0.0000 |
| Beam 21: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 348.8404 | 303.1557 | -133.9443 | 0.0000 |
| Beam 21: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 325.2305 | 356.8018 | -128.9738 | 0.0000 |
| Beam 21: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 385.6819 | 443.3820 | -78.6322 | 0.0000 |
| Beam 21: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 179.9272 | 256.6376 | -43.2588 | 0.0000 |
| Beam 21: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 360.1975 | 370.2377 | -135.7874 | 0.0000 |
| Beam 21: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 88.1268 | 173.6164 | -50.8146 | 0.0000 |
| Beam 21: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 309.7521 | 303.5987 | -154.0552 | 0.0000 |
| Beam 21: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 397.5875 | 255.6010 | -182.9465 | 0.0000 |
| Beam 21: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 412.3420 | 314.3049 | -176.0292 | 0.0000 |
| Beam 21: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 295.7855 | 269.5185 | -153.3171 | 0.0000 |
| Beam 21: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 343.3093 | 349.1117 | -166.3630 | 0.0000 |
| Beam 21: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 317.5690 | 330.2301 | -141.5297 | 0.0000 |
| Beam 21: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 216.2374 | 235.7446 | -46.7652 | 0.0000 |
| Beam 21: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 210.0499 | 233.7016 | -41.3352 | 0.0000 |
| Beam 21: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 183.1195 | 178.1368 | -82.7401 | 0.0000 |
| Beam 21: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 176.9320 | 176.0938 | -77.3101 | 0.0000 |
| Beam 21: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 219.7281 | 208.7081 | -64.2196 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 21: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 199.1029 | 201.8981 | -46.1196 |
| Beam 21: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 209.7927 | 191.4258 | -75.0121 |
| Beam 21: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 189.1675 | 184.6158 | -56.9121 |
| Beam 21: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 212.6072 | 232.8635 | -43.4707 |
| Beam 21: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 206.4197 | 230.8205 | -38.0407 |
| Beam 21: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 179.4893 | 175.2556 | -79.4456 |
| Beam 21: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 173.3018 | 173.2126 | -74.0156 |
| Beam 21: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 216.0979 | 205.8270 | -60.9251 |
| Beam 21: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 195.4727 | 199.0170 | -42.8251 |
| Beam 21: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 206.1625 | 188.5447 | -71.7176 |
| Beam 21: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 185.5373 | 181.7346 | -53.6176 |
| Beam 21: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 268.3754 | 239.0223 | -97.5529 |
| Beam 21: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 239.2992 | 281.9628 | -59.7124 |
| Beam 21: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 318.6600 | 324.8797 | -67.7311 |
| Beam 21: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 255.0485 | 231.7694 | -82.3322 |
| Beam 21: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 225.3340 | 272.4958 | -45.5378 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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| Beam 21: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 304.1393 | 313.3552 | -54.5531 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 305.2212 | 315.7936 | -86.2320 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 287.4693 | 302.7718 | -69.1056 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 138.1283 | 152.3136 | -35.6563 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 281.3785 | 297.0262 | -68.5102 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 267.1770 | 286.6088 | -54.8090 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 536.6018 | 465.0924 | 210.5248 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 536.6018 | 465.0924 | 210.5248 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 219.7281 | 235.7446 | 82.7401 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 318.6600 | 324.8797 | 97.5529 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 281.3785 | 297.0262 | 68.5102 | |
| 0.0000 | | | | | | |
| Beam 21: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 138.1283 | 152.3136 | 35.6563 | |
| 0.0000 | | | | | | |
| Beam 22: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | 157.3153 | 21.3818 | 0.0000 |
| Beam 22: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 64.9178 | 4.5287 | 0.0000 |
| Beam 22: End 1: 3: SPTSX | 0.0000 | 0.0000 | -20.7731 | 35.3413 | 2.2072 | 0.0000 |
| Beam 22: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -12.8517 | -6.2634 | 0.0000 |
| Beam 22: End 1: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -92.4091 | -57.5106 | 0.0000 |
| Beam 22: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 36.0133 | -95.7180 | 0.0000 |
| Beam 22: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 29.3260 | -77.9441 | 0.0000 |
| Beam 22: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -13.7701 | 34.8011 | 3.5426 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|--------|
| Beam 22: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -14.1065 | -6.8328 | 0.0000 |
| Beam 22: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -11.2684 | 28.4666 | 2.8951 | 0.0000 |
| Beam 22: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -11.5347 | -5.5871 | 0.0000 |
| Beam 22: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 38.0344 | 17.9723 | 0.0000 |
| Beam 22: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 36.6506 | 17.3185 | 0.0000 |
| Beam 22: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 22: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -14.9288 | 7.5707 | 0.0000 |
| Beam 22: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 11.1468 | -5.6528 | 0.0000 |
| Beam 22: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 78.5158 | 45.2878 | 0.0000 |
| Beam 22: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 9.2899 | 56.8770 | 23.1060 | 0.0000 |
| Beam 22: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 3.4050 | -9.0500 | 0.0000 |
| Beam 22: End 1: 20: SPSSX | 0.0000 | 0.0000 | -18.5021 | 41.2977 | 3.0160 | 0.0000 |
| Beam 22: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -14.8484 | -7.2211 | 0.0000 |
| Beam 22: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 385.2115 | 397.6636 | -133.5028 | 0.0000 |
| Beam 22: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 536.6018 | 465.0924 | -99.7027 | 0.0000 |
| Beam 22: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 378.7865 | 314.8588 | -158.7682 | 0.0000 |
| Beam 22: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 351.5493 | 377.6899 | -152.8590 | 0.0000 |
| Beam 22: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 412.0006 | 464.2701 | -102.5174 | 0.0000 |
| Beam 22: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 176.2997 | 265.8226 | -42.3200 | 0.0000 |
| Beam 22: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 386.5162 | 391.1258 | -159.6726 | 0.0000 |
| Beam 22: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 84.4994 | 182.8014 | -49.8758 | 0.0000 |
| Beam 22: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 335.4924 | 322.4803 | -178.8886 | 0.0000 |
| Beam 22: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 425.9483 | 261.5685 | -210.5248 | 0.0000 |
| Beam 22: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 438.8077 | 331.3495 | -201.0503 | 0.0000 |
| Beam 22: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 322.2512 | 286.5631 | -178.3382 | 0.0000 |
| Beam 22: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 358.8927 | 376.7755 | -109.6176 | 0.0000 |
| Beam 22: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 506.6556 | 453.3893 | -74.8787 | 0.0000 |
| Beam 22: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 348.8404 | 303.1557 | -133.9443 | 0.0000 |
| Beam 22: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 325.2305 | 356.8018 | -128.9738 | 0.0000 |
| Beam 22: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 385.6819 | 443.3820 | -78.6322 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |


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|--|--------|--------|----------|----------|-----------|--------|
| Beam 22: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 179.9272 | 256.6376 | -43.2588 | 0.0000 |
| Beam 22: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 360.1975 | 370.2377 | -135.7874 | 0.0000 |
| Beam 22: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 88.1268 | 173.6164 | -50.8146 | 0.0000 |
| Beam 22: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 309.7521 | 303.5987 | -154.0552 | 0.0000 |
| Beam 22: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 397.5875 | 255.6010 | -182.9465 | 0.0000 |
| Beam 22: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 412.3420 | 314.3049 | -176.0292 | 0.0000 |
| Beam 22: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 295.7855 | 269.5185 | -153.3171 | 0.0000 |
| Beam 22: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 343.3093 | 349.1117 | -166.3630 | 0.0000 |
| Beam 22: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 317.5690 | 330.2301 | -141.5297 | 0.0000 |
| Beam 22: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 216.2374 | 235.7446 | -46.7652 | 0.0000 |
| Beam 22: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 210.0499 | 233.7016 | -41.3352 | 0.0000 |
| Beam 22: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 183.1195 | 178.1368 | -82.7401 | 0.0000 |
| Beam 22: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 176.9320 | 176.0938 | -77.3101 | 0.0000 |
| Beam 22: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 219.7281 | 208.7081 | -64.2196 | 0.0000 |
| Beam 22: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 199.1029 | 201.8981 | -46.1196 | 0.0000 |
| Beam 22: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 209.7927 | 191.4258 | -75.0121 | 0.0000 |
| Beam 22: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 189.1675 | 184.6158 | -56.9121 | 0.0000 |
| Beam 22: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 212.6072 | 232.8635 | -43.4707 | 0.0000 |
| Beam 22: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 206.4197 | 230.8205 | -38.0407 | 0.0000 |
| Beam 22: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 179.4893 | 175.2556 | -79.4456 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 22: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 173.3018 | 173.2126 | -74.0156 |
| Beam 22: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 216.0979 | 205.8270 | -60.9251 |
| Beam 22: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 195.4727 | 199.0170 | -42.8251 |
| Beam 22: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 206.1625 | 188.5447 | -71.7176 |
| Beam 22: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 185.5373 | 181.7346 | -53.6176 |
| Beam 22: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 268.3754 | 239.0223 | -97.5529 |
| Beam 22: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 239.2992 | 281.9628 | -59.7124 |
| Beam 22: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 318.6600 | 324.8797 | -67.7311 |
| Beam 22: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 255.0485 | 231.7694 | -82.3322 |
| Beam 22: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 225.3340 | 272.4958 | -45.5378 |
| Beam 22: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 304.1393 | 313.3552 | -54.5531 |
| Beam 22: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 305.2212 | 315.7936 | -86.2320 |
| Beam 22: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 287.4693 | 302.7718 | -69.1056 |
| Beam 22: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 138.1283 | 152.3136 | -35.6563 |
| Beam 22: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 281.3785 | 297.0262 | -68.5102 |
| Beam 22: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 267.1770 | 286.6088 | -54.8090 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|---|--------|--------|----------|-----------|----------|--------|
| Beam 22: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 536.6018 | 465.0924 | 210.5248 | 0.0000 |
| Beam 22: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 536.6018 | 465.0924 | 210.5248 | 0.0000 |
| Beam 22: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 219.7281 | 235.7446 | 82.7401 | 0.0000 |
| Beam 22: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 318.6600 | 324.8797 | 97.5529 | 0.0000 |
| Beam 22: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 281.3785 | 297.0262 | 68.5102 | 0.0000 |
| Beam 22: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 138.1283 | 152.3136 | 35.6563 | 0.0000 |
| Beam 22: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | 222.8383 | 30.7013 | 0.0000 |
| Beam 22: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 89.7272 | 4.5287 | 0.0000 |
| Beam 22: End 2: 3: SPTSX | 0.0000 | 0.0000 | -27.3281 | 26.1672 | 2.2072 | 0.0000 |
| Beam 22: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -14.1478 | -6.2634 | 0.0000 |
| Beam 22: End 2: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -121.0629 | -57.5106 | 0.0000 |
| Beam 22: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 77.4607 | -95.7180 | 0.0000 |
| Beam 22: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 63.0770 | -77.9441 | 0.0000 |
| Beam 22: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -20.8761 | 28.2183 | 3.5426 | 0.0000 |
| Beam 22: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -15.5535 | -6.8328 | 0.0000 |
| Beam 22: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -17.0824 | 23.0800 | 2.8951 | 0.0000 |
| Beam 22: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -12.7178 | -5.5871 | 0.0000 |
| Beam 22: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 42.2017 | 17.9723 | 0.0000 |
| Beam 22: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 40.6663 | 17.3185 | 0.0000 |
| Beam 22: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 22: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -29.6926 | 7.5707 | 0.0000 |
| Beam 22: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 22.1705 | -5.6528 | 0.0000 |
| Beam 22: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 98.7099 | 45.2878 | 0.0000 |
| Beam 22: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 7.1885 | 60.0079 | 23.1060 | 0.0000 |
| Beam 22: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 7.3238 | -9.0500 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|--------|--|
| Beam 22: End 2: 20: SPSSX | 0.0000 | 0.0000 | -27.5841 | 32.5413 | 3.0160 | 0.0000 | |
| Beam 22: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -16.3547 | -7.2211 | 0.0000 | |
| Beam 22: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 368.3528 | 540.8059 | -120.9215 | 0.0000 | |
| Beam 22: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 530.0468 | 667.7208 | -87.1214 | 0.0000 | |
| Beam 22: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 372.2315 | 457.5173 | -146.1869 | 0.0000 | |
| Beam 22: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 332.3963 | 507.5924 | -140.2776 | 0.0000 | |
| Beam 22: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 392.8477 | 617.1442 | -89.9360 | 0.0000 | |
| Beam 22: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 157.1468 | 329.1303 | -29.7387 | 0.0000 | |
| Beam 22: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 367.3633 | 534.3158 | -147.0913 | 0.0000 | |
| Beam 22: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 65.3465 | 211.2250 | -40.5563 | 0.0000 | |
| Beam 22: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 316.3394 | 446.2812 | -166.3072 | 0.0000 | |
| Beam 22: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 419.3933 | 422.1485 | -197.9435 | 0.0000 | |
| Beam 22: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 424.0098 | 495.2499 | -188.4690 | 0.0000 | |
| Beam 22: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 307.4532 | 406.1721 | -165.7569 | 0.0000 | |
| Beam 22: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 343.9074 | 510.2726 | -97.0363 | 0.0000 | |
| Beam 22: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 500.1006 | 644.6381 | -62.2974 | 0.0000 | |
| Beam 22: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 342.2854 | 434.4347 | -121.3629 | 0.0000 | |
| Beam 22: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 307.9510 | 477.0592 | -116.3925 | 0.0000 | |
| Beam 22: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 368.4023 | 586.6109 | -66.0508 | 0.0000 | |
| Beam 22: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 162.6476 | 321.6797 | -30.6775 | 0.0000 | |
| Beam 22: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 342.9179 | 503.7825 | -123.2061 | 0.0000 | |
| Beam 22: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 70.8473 | 203.7744 | -41.4951 | 0.0000 | |
| Beam 22: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 292.4726 | 417.9743 | -141.4739 | 0.0000 | |
| Beam 22: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 391.0325 | 405.4039 | -170.3652 | 0.0000 | |
| Beam 22: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 399.0428 | 468.4331 | -163.4479 | 0.0000 | |
| Beam 22: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 282.4862 | 379.3553 | -140.7358 | 0.0000 | |
| Beam 22: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 324.1563 | 475.8830 | -153.7816 | 0.0000 | |
| Beam 22: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 300.2895 | 447.5761 | -128.9483 | 0.0000 | |
| Beam 22: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 206.1598 | 315.9652 | -37.4457 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 22: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 199.9723 | 311.5709 | -32.0157 |
| 0.0000 | | | | | |
| Beam 22: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 168.1627 | 244.8455 | -73.4206 |
| 0.0000 | | | | | |
| Beam 22: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 161.9752 | 240.4512 | -67.9906 |
| 0.0000 | | | | | |
| Beam 22: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 211.1214 | 290.5346 | -54.9001 |
| 0.0000 | | | | | |
| Beam 22: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 190.4963 | 275.8870 | -36.8001 |
| 0.0000 | | | | | |
| Beam 22: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 199.7223 | 269.1987 | -65.6926 |
| 0.0000 | | | | | |
| Beam 22: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 179.0971 | 254.5511 | -47.5926 |
| 0.0000 | | | | | |
| Beam 22: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 202.7880 | 311.7537 | -34.1512 |
| 0.0000 | | | | | |
| Beam 22: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 196.6005 | 307.3594 | -28.7212 |
| 0.0000 | | | | | |
| Beam 22: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 164.7909 | 240.6340 | -70.1261 |
| 0.0000 | | | | | |
| Beam 22: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 158.6034 | 236.2397 | -64.6961 |
| 0.0000 | | | | | |
| Beam 22: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 207.7497 | 286.3231 | -51.6056 |
| 0.0000 | | | | | |
| Beam 22: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 187.1245 | 271.6756 | -33.5056 |
| 0.0000 | | | | | |
| Beam 22: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 196.3505 | 264.9872 | -62.3981 |
| 0.0000 | | | | | |
| Beam 22: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 175.7254 | 250.3397 | -44.2981 |
| 0.0000 | | | | | |
| Beam 22: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 256.1356 | 338.6445 | -88.2334 |
| 0.0000 | | | | | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|----------|----------|
| Beam 22: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 227.0594 | 370.5360 | -50.3929 |
| 0.0000 | | | | | |
| Beam 22: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 306.4202 | 443.6100 | -58.4116 |
| 0.0000 | | | | | |
| Beam 22: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 243.8423 | 326.5237 | -73.0127 |
| 0.0000 | | | | | |
| Beam 22: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 214.1278 | 355.9586 | -36.2183 |
| 0.0000 | | | | | |
| Beam 22: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 292.9331 | 426.7641 | -45.2336 |
| 0.0000 | | | | | |
| Beam 22: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 291.5602 | 429.1471 | -76.9125 |
| 0.0000 | | | | | |
| Beam 22: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 275.1003 | 409.6251 | -59.7861 |
| 0.0000 | | | | | |
| Beam 22: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 131.5733 | 203.5220 | -26.3368 |
| 0.0000 | | | | | |
| Beam 22: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 269.1387 | 401.5896 | -59.1907 |
| 0.0000 | | | | | |
| Beam 22: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 255.9708 | 385.9720 | -45.4895 |
| 0.0000 | | | | | |
| Beam 22: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 530.0468 | 667.7208 | 197.9435 |
| 0.0000 | | | | | |
| Beam 22: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 530.0468 | 667.7208 | 197.9435 |
| 0.0000 | | | | | |
| Beam 22: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 211.1214 | 315.9652 | 73.4206 |
| 0.0000 | | | | | |
| Beam 22: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 306.4202 | 443.6100 | 88.2334 |
| 0.0000 | | | | | |
| Beam 22: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 269.1387 | 401.5896 | 59.1907 |
| 0.0000 | | | | | |
| Beam 22: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 131.5733 | 203.5220 | 26.3368 |
| 0.0000 | | | | | |
| Beam 23: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | 222.8383 | 30.7013 |
| | | | | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 23: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 89.7272 | 4.5287 | 0.0000 |
| Beam 23: End 1: 3: SPTSX | 0.0000 | 0.0000 | -27.3281 | 26.1672 | 2.2072 | 0.0000 |
| Beam 23: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -14.1478 | -6.2634 | 0.0000 |
| Beam 23: End 1: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -121.0629 | -57.5106 | 0.0000 |
| Beam 23: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 77.4607 | -95.7180 | 0.0000 |
| Beam 23: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 63.0770 | -77.9441 | 0.0000 |
| Beam 23: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -20.8761 | 28.2183 | 3.5426 | 0.0000 |
| Beam 23: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -15.5535 | -6.8328 | 0.0000 |
| Beam 23: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -17.0824 | 23.0800 | 2.8951 | 0.0000 |
| Beam 23: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -12.7178 | -5.5871 | 0.0000 |
| Beam 23: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 42.2017 | 17.9723 | 0.0000 |
| Beam 23: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 40.6663 | 17.3185 | 0.0000 |
| Beam 23: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 23: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -29.6926 | 7.5707 | 0.0000 |
| Beam 23: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 22.1705 | -5.6528 | 0.0000 |
| Beam 23: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 98.7099 | 45.2878 | 0.0000 |
| Beam 23: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 7.1885 | 60.0079 | 23.1060 | 0.0000 |
| Beam 23: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 7.3238 | -9.0500 | 0.0000 |
| Beam 23: End 1: 20: SPSSX | 0.0000 | 0.0000 | -27.5841 | 32.5413 | 3.0160 | 0.0000 |
| Beam 23: End 1: 21: SPSSDX | 0.0000 | 0.0000 | -3.9639 | -16.3547 | -7.2211 | 0.0000 |
| Beam 23: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 368.3528 | 540.8059 | -120.9215 | 0.0000 |
| Beam 23: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 530.0468 | 667.7208 | -87.1214 | 0.0000 |
| Beam 23: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 372.2315 | 457.5173 | -146.1869 | 0.0000 |
| Beam 23: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 332.3963 | 507.5924 | -140.2776 | 0.0000 |
| Beam 23: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 392.8477 | 617.1442 | -89.9360 | 0.0000 |
| Beam 23: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 157.1468 | 329.1303 | -29.7387 | 0.0000 |
| Beam 23: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 367.3633 | 534.3158 | -147.0913 | 0.0000 |
| Beam 23: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 65.3465 | 211.2250 | -40.5563 | 0.0000 |
| Beam 23: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 316.3394 | 446.2812 | -166.3072 | 0.0000 |
| Beam 23: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 419.3933 | 422.1485 | -197.9435 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|-----------|--------|
| Beam 23: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 424.0098 | 495.2499 | -188.4690 | 0.0000 |
| Beam 23: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 307.4532 | 406.1721 | -165.7569 | 0.0000 |
| Beam 23: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 343.9074 | 510.2726 | -97.0363 | 0.0000 |
| Beam 23: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 500.1006 | 644.6381 | -62.2974 | 0.0000 |
| Beam 23: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 342.2854 | 434.4347 | -121.3629 | 0.0000 |
| Beam 23: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 307.9510 | 477.0592 | -116.3925 | 0.0000 |
| Beam 23: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 368.4023 | 586.6109 | -66.0508 | 0.0000 |
| Beam 23: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 162.6476 | 321.6797 | -30.6775 | 0.0000 |
| Beam 23: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 342.9179 | 503.7825 | -123.2061 | 0.0000 |
| Beam 23: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 70.8473 | 203.7744 | -41.4951 | 0.0000 |
| Beam 23: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 292.4726 | 417.9743 | -141.4739 | 0.0000 |
| Beam 23: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 391.0325 | 405.4039 | -170.3652 | 0.0000 |
| Beam 23: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 399.0428 | 468.4331 | -163.4479 | 0.0000 |
| Beam 23: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 282.4862 | 379.3553 | -140.7358 | 0.0000 |
| Beam 23: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 324.1563 | 475.8830 | -153.7816 | 0.0000 |
| Beam 23: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 300.2895 | 447.5761 | -128.9483 | 0.0000 |
| Beam 23: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 206.1598 | 315.9652 | -37.4457 | 0.0000 |
| Beam 23: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 199.9723 | 311.5709 | -32.0157 | 0.0000 |
| Beam 23: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 168.1627 | 244.8455 | -73.4206 | 0.0000 |
| Beam 23: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 161.9752 | 240.4512 | -67.9906 | 0.0000 |
| Beam 23: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 211.1214 | 290.5346 | -54.9001 | 0.0000 |
| Beam 23: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 190.4963 | 275.8870 | -36.8001 | 0.0000 |
| Beam 23: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 199.7223 | 269.1987 | -65.6926 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 23: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 179.0971 | 254.5511 | -47.5926 |
| Beam 23: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 202.7880 | 311.7537 | -34.1512 |
| Beam 23: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 196.6005 | 307.3594 | -28.7212 |
| Beam 23: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 164.7909 | 240.6340 | -70.1261 |
| Beam 23: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 158.6034 | 236.2397 | -64.6961 |
| Beam 23: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 207.7497 | 286.3231 | -51.6056 |
| Beam 23: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 187.1245 | 271.6756 | -33.5056 |
| Beam 23: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 196.3505 | 264.9872 | -62.3981 |
| Beam 23: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 175.7254 | 250.3397 | -44.2981 |
| Beam 23: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 256.1356 | 338.6445 | -88.2334 |
| Beam 23: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 227.0594 | 370.5360 | -50.3929 |
| Beam 23: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 306.4202 | 443.6100 | -58.4116 |
| Beam 23: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 243.8423 | 326.5237 | -73.0127 |
| Beam 23: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 214.1278 | 355.9586 | -36.2183 |
| Beam 23: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 292.9331 | 426.7641 | -45.2336 |
| Beam 23: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 291.5602 | 429.1471 | -76.9125 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|----------|--------|
| Beam 23: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 275.1003 | 409.6251 | -59.7861 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 131.5733 | 203.5220 | -26.3368 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 269.1387 | 401.5896 | -59.1907 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 255.9708 | 385.9720 | -45.4895 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 530.0468 | 667.7208 | 197.9435 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 530.0468 | 667.7208 | 197.9435 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 211.1214 | 315.9652 | 73.4206 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 306.4202 | 443.6100 | 88.2334 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 269.1387 | 401.5896 | 59.1907 | |
| 0.0000 | | | | | | |
| Beam 23: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 131.5733 | 203.5220 | 26.3368 | |
| 0.0000 | | | | | | |
| Beam 23: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | 288.3613 | 40.0208 | 0.0000 |
| Beam 23: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 114.5366 | 4.5287 | 0.0000 |
| Beam 23: End 2: 3: SPTSX | 0.0000 | 0.0000 | -32.7811 | 14.7116 | 2.2072 | 0.0000 |
| Beam 23: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -15.4439 | -6.2634 | 0.0000 |
| Beam 23: End 2: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -149.7166 | -57.5106 | 0.0000 |
| Beam 23: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 118.9080 | -95.7180 | 0.0000 |
| Beam 23: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 96.8280 | -77.9441 | 0.0000 |
| Beam 23: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -27.9821 | 18.9353 | 3.5426 | 0.0000 |
| Beam 23: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -17.0005 | -6.8328 | 0.0000 |
| Beam 23: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -22.8964 | 15.4840 | 2.8951 | 0.0000 |
| Beam 23: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -13.9010 | -5.5871 | 0.0000 |
| Beam 23: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 46.3690 | 17.9723 | 0.0000 |

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|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|----------|-----------|--------|--|
| Beam 23: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 44.6820 | 17.3185 | 0.0000 | |
| Beam 23: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 23: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -44.4564 | 7.5707 | 0.0000 | |
| Beam 23: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 33.1941 | -5.6528 | 0.0000 | |
| Beam 23: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 118.9040 | 45.2878 | 0.0000 | |
| Beam 23: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 5.0871 | 62.3402 | 23.1060 | 0.0000 | |
| Beam 23: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 11.2426 | -9.0500 | 0.0000 | |
| Beam 23: End 2: 20: SPSSX | 0.0000 | 0.0000 | -36.6661 | 20.3338 | 3.0160 | 0.0000 | |
| Beam 23: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -17.8610 | -7.2211 | 0.0000 | |
| Beam 23: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 352.5961 | 677.7513 | -108.3401 | 0.0000 | |
| Beam 23: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 524.5938 | 868.0676 | -74.5401 | 0.0000 | |
| Beam 23: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 366.7785 | 597.8944 | -133.6056 | 0.0000 | |
| Beam 23: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 314.7311 | 630.4995 | -127.6963 | 0.0000 | |
| Beam 23: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 375.1824 | 763.0228 | -77.3547 | 0.0000 | |
| Beam 23: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 139.4815 | 385.4426 | -17.1574 | 0.0000 | |
| Beam 23: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 349.6980 | 670.5103 | -134.5100 | 0.0000 | |
| Beam 23: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 47.6812 | 232.6532 | -31.2368 | 0.0000 | |
| Beam 23: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 298.6742 | 563.0867 | -153.7259 | 0.0000 | |
| Beam 23: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 413.9403 | 580.4470 | -185.3622 | 0.0000 | |
| Beam 23: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 410.3138 | 653.7365 | -175.8877 | 0.0000 | |
| Beam 23: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 293.7573 | 520.3672 | -153.1756 | 0.0000 | |
| Beam 23: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 330.0241 | 638.2847 | -84.4549 | 0.0000 | |
| Beam 23: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 494.6476 | 833.6054 | -49.7161 | 0.0000 | |
| Beam 23: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 336.8324 | 563.4322 | -108.7816 | 0.0000 | |
| Beam 23: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 292.1591 | 591.0330 | -103.8111 | 0.0000 | |
| Beam 23: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 352.6105 | 723.5562 | -53.4695 | 0.0000 | |
| Beam 23: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 146.8558 | 380.4382 | -18.0961 | 0.0000 | |
| Beam 23: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 327.1261 | 631.0438 | -110.6248 | 0.0000 | |
| Beam 23: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 55.0554 | 227.6488 | -32.1756 | 0.0000 | |
| Beam 23: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 276.6807 | 526.0663 | -128.8926 | 0.0000 | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|--------|
| Beam 23: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 385.5795 | 552.9253 | -157.7839 | 0.0000 |
| Beam 23: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 386.8455 | 617.7170 | -150.8666 | 0.0000 |
| Beam 23: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 270.2890 | 484.3477 | -128.1545 | 0.0000 |
| Beam 23: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 306.4911 | 595.6589 | -141.2003 | 0.0000 |
| Beam 23: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 284.4976 | 558.6385 | -116.3670 | 0.0000 |
| Beam 23: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 197.1842 | 392.5656 | -28.1262 | 0.0000 |
| Beam 23: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 190.9967 | 385.8201 | -22.6962 | 0.0000 |
| Beam 23: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 154.3079 | 306.0800 | -64.1011 | 0.0000 |
| Beam 23: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 148.1204 | 299.3345 | -58.6711 | 0.0000 |
| Beam 23: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 203.6168 | 369.3000 | -45.5806 | 0.0000 |
| Beam 23: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 182.9916 | 346.8148 | -27.4806 | 0.0000 |
| Beam 23: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 190.7539 | 343.3543 | -56.3731 | 0.0000 |
| Beam 23: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 170.1288 | 320.8692 | -38.2731 | 0.0000 |
| Beam 23: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 194.0708 | 387.1220 | -24.8317 | 0.0000 |
| Beam 23: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 187.8833 | 380.3764 | -19.4017 | 0.0000 |
| Beam 23: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 151.1945 | 300.6364 | -60.8066 | 0.0000 |
| Beam 23: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 145.0070 | 293.8908 | -55.3766 | 0.0000 |
| Beam 23: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 200.5034 | 363.8563 | -42.2861 | 0.0000 |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|----------|----------|
| Beam 23: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 179.8783 | 341.3712 | -24.1861 |
| 0.0000 | | | | | |
| Beam 23: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 187.6406 | 337.9107 | -53.0786 |
| 0.0000 | | | | | |
| Beam 23: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 167.0154 | 315.4255 | -34.9786 |
| 0.0000 | | | | | |
| Beam 23: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 244.9978 | 433.8249 | -78.9139 |
| 0.0000 | | | | | |
| Beam 23: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 215.9216 | 454.6675 | -41.0734 |
| 0.0000 | | | | | |
| Beam 23: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 295.2824 | 557.8986 | -49.0921 |
| 0.0000 | | | | | |
| Beam 23: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 233.7381 | 417.2291 | -63.6932 |
| 0.0000 | | | | | |
| Beam 23: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 204.0236 | 435.3725 | -26.8988 |
| 0.0000 | | | | | |
| Beam 23: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 282.8289 | 536.1240 | -35.9141 |
| 0.0000 | | | | | |
| Beam 23: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 279.0012 | 537.5189 | -67.5930 |
| 0.0000 | | | | | |
| Beam 23: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 263.8333 | 511.9876 | -50.4666 |
| 0.0000 | | | | | |
| Beam 23: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 126.1203 | 252.4489 | -17.0173 |
| 0.0000 | | | | | |
| Beam 23: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 258.0009 | 501.7112 | -49.8712 |
| 0.0000 | | | | | |
| Beam 23: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 245.8666 | 481.2862 | -36.1700 |
| 0.0000 | | | | | |
| Beam 23: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 524.5938 | 868.0676 | 185.3622 |
| 0.0000 | | | | | |
| Beam 23: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 524.5938 | 868.0676 | 185.3622 |
| 0.0000 | | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 23: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 203.6168 | 392.5656 | 64.1011 | | |
| 0.0000 | | | | | | | |
| Beam 23: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 295.2824 | 557.8986 | 78.9139 | | |
| 0.0000 | | | | | | | |
| Beam 23: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 258.0009 | 501.7112 | 49.8712 | | |
| 0.0000 | | | | | | | |
| Beam 23: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 126.1203 | 252.4489 | 17.0173 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | 288.3613 | 40.0208 | 0.0000 | |
| Beam 24: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 114.5366 | 4.5287 | 0.0000 | |
| Beam 24: End 1: 3: SPTSX | 0.0000 | 0.0000 | -32.7811 | 14.7116 | 2.2072 | 0.0000 | |
| Beam 24: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -15.4439 | -6.2634 | 0.0000 | |
| Beam 24: End 1: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -149.7166 | -57.5106 | 0.0000 | |
| Beam 24: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 118.9080 | -95.7180 | 0.0000 | |
| Beam 24: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 96.8280 | -77.9441 | 0.0000 | |
| Beam 24: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -27.9821 | 18.9353 | 3.5426 | 0.0000 | |
| Beam 24: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -17.0005 | -6.8328 | 0.0000 | |
| Beam 24: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -22.8964 | 15.4840 | 2.8951 | 0.0000 | |
| Beam 24: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -13.9010 | -5.5871 | 0.0000 | |
| Beam 24: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 46.3690 | 17.9723 | 0.0000 | |
| Beam 24: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 44.6820 | 17.3185 | 0.0000 | |
| Beam 24: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 24: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -44.4564 | 7.5707 | 0.0000 | |
| Beam 24: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 33.1941 | -5.6528 | 0.0000 | |
| Beam 24: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 118.9040 | 45.2878 | 0.0000 | |
| Beam 24: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 5.0871 | 62.3402 | 23.1060 | 0.0000 | |
| Beam 24: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 11.2426 | -9.0500 | 0.0000 | |
| Beam 24: End 1: 20: SPSSX | 0.0000 | 0.0000 | -36.6661 | 20.3338 | 3.0160 | 0.0000 | |
| Beam 24: End 1: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -17.8610 | -7.2211 | 0.0000 | |
| Beam 24: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 352.5961 | 677.7513 | -108.3401 | 0.0000 | |
| Beam 24: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 524.5938 | 868.0676 | -74.5401 | 0.0000 | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|--------|
| Beam 24: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 366.7785 | 597.8944 | -133.6056 | 0.0000 |
| Beam 24: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 314.7311 | 630.4995 | -127.6963 | 0.0000 |
| Beam 24: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 375.1824 | 763.0228 | -77.3547 | 0.0000 |
| Beam 24: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 139.4815 | 385.4426 | -17.1574 | 0.0000 |
| Beam 24: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 349.6980 | 670.5103 | -134.5100 | 0.0000 |
| Beam 24: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 47.6812 | 232.6532 | -31.2368 | 0.0000 |
| Beam 24: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 298.6742 | 563.0867 | -153.7259 | 0.0000 |
| Beam 24: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 413.9403 | 580.4470 | -185.3622 | 0.0000 |
| Beam 24: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 410.3138 | 653.7365 | -175.8877 | 0.0000 |
| Beam 24: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 293.7573 | 520.3672 | -153.1756 | 0.0000 |
| Beam 24: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 330.0241 | 638.2847 | -84.4549 | 0.0000 |
| Beam 24: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 494.6476 | 833.6054 | -49.7161 | 0.0000 |
| Beam 24: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 336.8324 | 563.4322 | -108.7816 | 0.0000 |
| Beam 24: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 292.1591 | 591.0330 | -103.8111 | 0.0000 |
| Beam 24: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 352.6105 | 723.5562 | -53.4695 | 0.0000 |
| Beam 24: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 146.8558 | 380.4382 | -18.0961 | 0.0000 |
| Beam 24: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 327.1261 | 631.0438 | -110.6248 | 0.0000 |
| Beam 24: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 55.0554 | 227.6488 | -32.1756 | 0.0000 |
| Beam 24: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 276.6807 | 526.0663 | -128.8926 | 0.0000 |
| Beam 24: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 385.5795 | 552.9253 | -157.7839 | 0.0000 |
| Beam 24: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 386.8455 | 617.7170 | -150.8666 | 0.0000 |
| Beam 24: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 270.2890 | 484.3477 | -128.1545 | 0.0000 |
| Beam 24: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 306.4911 | 595.6589 | -141.2003 | 0.0000 |
| Beam 24: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 284.4976 | 558.6385 | -116.3670 | 0.0000 |
| Beam 24: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 197.1842 | 392.5656 | -28.1262 | 0.0000 |
| Beam 24: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 190.9967 | 385.8201 | -22.6962 | 0.0000 |
| Beam 24: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 154.3079 | 306.0800 | -64.1011 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 24: End 1: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | 148.1204 | 299.3345 | -58.6711 |
| Beam 24: End 1: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | 203.6168 | 369.3000 | -45.5806 |
| Beam 24: End 1: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 182.9916 | 346.8148 | -27.4806 |
| Beam 24: End 1: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 190.7539 | 343.3543 | -56.3731 |
| Beam 24: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 170.1288 | 320.8692 | -38.2731 |
| Beam 24: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 194.0708 | 387.1220 | -24.8317 |
| Beam 24: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 187.8833 | 380.3764 | -19.4017 |
| Beam 24: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 151.1945 | 300.6364 | -60.8066 |
| Beam 24: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 145.0070 | 293.8908 | -55.3766 |
| Beam 24: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 200.5034 | 363.8563 | -42.2861 |
| Beam 24: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 179.8783 | 341.3712 | -24.1861 |
| Beam 24: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 187.6406 | 337.9107 | -53.0786 |
| Beam 24: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 167.0154 | 315.4255 | -34.9786 |
| Beam 24: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 244.9978 | 433.8249 | -78.9139 |
| Beam 24: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 215.9216 | 454.6675 | -41.0734 |
| Beam 24: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 295.2824 | 557.8986 | -49.0921 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|----------|----------|
| Beam 24: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 233.7381 | 417.2291 | -63.6932 |
| 0.0000 | | | | | |
| Beam 24: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 204.0236 | 435.3725 | -26.8988 |
| 0.0000 | | | | | |
| Beam 24: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 282.8289 | 536.1240 | -35.9141 |
| 0.0000 | | | | | |
| Beam 24: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 279.0012 | 537.5189 | -67.5930 |
| 0.0000 | | | | | |
| Beam 24: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 263.8333 | 511.9876 | -50.4666 |
| 0.0000 | | | | | |
| Beam 24: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 126.1203 | 252.4489 | -17.0173 |
| 0.0000 | | | | | |
| Beam 24: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 258.0009 | 501.7112 | -49.8712 |
| 0.0000 | | | | | |
| Beam 24: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 245.8666 | 481.2862 | -36.1700 |
| 0.0000 | | | | | |
| Beam 24: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 524.5938 | 868.0676 | 185.3622 |
| 0.0000 | | | | | |
| Beam 24: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 524.5938 | 868.0676 | 185.3622 |
| 0.0000 | | | | | |
| Beam 24: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 203.6168 | 392.5656 | 64.1011 |
| 0.0000 | | | | | |
| Beam 24: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 295.2824 | 557.8986 | 78.9139 |
| 0.0000 | | | | | |
| Beam 24: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 258.0009 | 501.7112 | 49.8712 |
| 0.0000 | | | | | |
| Beam 24: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 126.1203 | 252.4489 | 17.0173 |
| 0.0000 | | | | | |
| Beam 24: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | 331.4685 | 46.1520 |
| | | | | 0.0000 | |
| Beam 24: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 130.8586 | 4.5287 |
| | | | | 0.0000 | |
| Beam 24: End 2: 3: SPTSX | 0.0000 | 0.0000 | -35.7686 | 6.1329 | 2.2072 |
| | | | | 0.0000 | |
| Beam 24: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -16.2966 | -6.2634 |
| | | | | 0.0000 | |

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|---|---|------------------------|---------------------------------------|----------|
| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|--|
| Beam 24: End 2: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -168.5678 | -57.5106 | 0.0000 | |
| Beam 24: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 146.1760 | -95.7180 | 0.0000 | |
| Beam 24: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 119.0325 | -77.9441 | 0.0000 | |
| Beam 24: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -32.6571 | 11.3554 | 3.5426 | 0.0000 | |
| Beam 24: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -17.9525 | -6.8328 | 0.0000 | |
| Beam 24: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -26.7214 | 9.2817 | 2.8951 | 0.0000 | |
| Beam 24: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -14.6794 | -5.5871 | 0.0000 | |
| Beam 24: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 49.1106 | 17.9723 | 0.0000 | |
| Beam 24: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 47.3239 | 17.3185 | 0.0000 | |
| Beam 24: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 24: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -54.1695 | 7.5707 | 0.0000 | |
| Beam 24: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 40.4466 | -5.6528 | 0.0000 | |
| Beam 24: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 132.1896 | 45.2878 | 0.0000 | |
| Beam 24: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 3.7046 | 63.4392 | 23.1060 | 0.0000 | |
| Beam 24: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 13.8207 | -9.0500 | 0.0000 | |
| Beam 24: End 2: 20: SPSSX | 0.0000 | 0.0000 | -42.6411 | 10.4204 | 3.0160 | 0.0000 | |
| Beam 24: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -18.8520 | -7.2211 | 0.0000 | |
| Beam 24: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 342.8298 | 764.6697 | -100.0629 | 0.0000 | |
| Beam 24: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 521.6063 | 998.8327 | -66.2629 | 0.0000 | |
| Beam 24: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 363.7910 | 689.2057 | -125.3284 | 0.0000 | |
| Beam 24: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 303.9192 | 707.8175 | -119.4191 | 0.0000 | |
| Beam 24: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 364.3706 | 855.4535 | -69.0775 | 0.0000 | |
| Beam 24: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 128.6697 | 418.9481 | -8.8802 | 0.0000 | |
| Beam 24: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 338.8862 | 756.5700 | -126.2328 | 0.0000 | |
| Beam 24: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 36.8693 | 243.2087 | -25.1055 | 0.0000 | |
| Beam 24: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 287.8623 | 636.3904 | -145.4487 | 0.0000 | |
| Beam 24: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 410.9528 | 683.5488 | -177.0850 | 0.0000 | |
| Beam 24: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 401.9033 | 755.2538 | -167.6105 | 0.0000 | |
| Beam 24: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 285.3468 | 592.7453 | -144.8984 | 0.0000 | |
| Beam 24: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 321.4904 | 719.7142 | -76.1778 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|-----------|--------|
| Beam 24: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 491.6601 | 956.8840 | -41.4389 | 0.0000 |
| Beam 24: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 333.8449 | 647.2569 | -100.5044 | 0.0000 |
| Beam 24: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 282.5797 | 662.8620 | -95.5339 | 0.0000 |
| Beam 24: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 343.0311 | 810.4980 | -45.1923 | 0.0000 |
| Beam 24: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 137.2764 | 415.9414 | -9.8190 | 0.0000 |
| Beam 24: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 317.5467 | 711.6145 | -102.3476 | 0.0000 |
| Beam 24: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 45.4761 | 240.2019 | -26.0443 | 0.0000 |
| Beam 24: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 267.1014 | 594.0257 | -120.6154 | 0.0000 |
| Beam 24: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 382.5920 | 648.9368 | -149.5067 | 0.0000 |
| Beam 24: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 379.4210 | 713.4904 | -142.5894 | 0.0000 |
| Beam 24: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 262.8645 | 550.9819 | -119.8773 | 0.0000 |
| Beam 24: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 295.6792 | 670.9169 | -132.9231 | 0.0000 |
| Beam 24: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 274.9183 | 628.5522 | -108.0898 | 0.0000 |
| Beam 24: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 191.8792 | 441.1887 | -21.9950 | 0.0000 |
| Beam 24: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 185.6917 | 432.8962 | -16.5650 | 0.0000 |
| Beam 24: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 145.7929 | 343.5827 | -57.9698 | 0.0000 |
| Beam 24: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 139.6054 | 335.2903 | -52.5398 | 0.0000 |
| Beam 24: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 199.2796 | 419.6522 | -39.4494 | 0.0000 |
| Beam 24: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 178.6544 | 392.0107 | -21.3494 | 0.0000 |
| Beam 24: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 185.4537 | 390.3704 | -50.2418 | 0.0000 |
| Beam 24: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 164.8285 | 362.7289 | -32.1418 | 0.0000 |
| Beam 24: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 188.9358 | 434.9879 | -18.7005 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|----------|----------|----------|
| Beam 24: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 182.7483 | 426.6955 | -13.2705 |
| Beam 24: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 142.8495 | 337.3820 | -54.6753 |
| Beam 24: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 136.6620 | 329.0895 | -49.2453 |
| Beam 24: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 196.3362 | 413.4514 | -36.1549 |
| Beam 24: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 175.7110 | 385.8099 | -18.0549 |
| Beam 24: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 182.5103 | 384.1696 | -46.9473 |
| Beam 24: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 161.8851 | 356.5282 | -28.8473 |
| Beam 24: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 238.2703 | 494.2235 | -72.7827 |
| Beam 24: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 209.1941 | 507.7971 | -34.9421 |
| Beam 24: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 288.5549 | 630.8684 | -42.9608 |
| Beam 24: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 227.6906 | 474.8978 | -57.5619 |
| Beam 24: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 197.9761 | 485.6126 | -20.7676 |
| Beam 24: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 276.7814 | 606.0653 | -29.7828 |
| Beam 24: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 271.3387 | 606.3015 | -61.4618 |
| Beam 24: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 257.0208 | 577.0845 | -44.3353 |
| Beam 24: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 123.1328 | 283.5956 | -10.8861 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|---|--------|--------|----------|-----------|----------|--------|--|
| Beam 24: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 251.2734 | 565.3606 | -43.7399 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 239.8191 | 541.9870 | -30.0388 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 521.6063 | 998.8327 | 177.0850 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 521.6063 | 998.8327 | 177.0850 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 199.2796 | 441.1887 | 57.9698 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 288.5549 | 630.8684 | 72.7827 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 251.2734 | 565.3606 | 43.7399 | | |
| 0.0000 | | | | | | | |
| Beam 24: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 123.1328 | 283.5956 | 10.8861 | | |
| 0.0000 | | | | | | | |
| Beam 25: End 1: 1: PP | 0.0000 | 0.0000 | 172.4289 | 331.4685 | 46.1520 | 0.0000 | |
| Beam 25: End 1: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 130.8586 | 4.5287 | 0.0000 | |
| Beam 25: End 1: 3: SPTSX | 0.0000 | 0.0000 | -35.7686 | 6.1329 | 2.2072 | 0.0000 | |
| Beam 25: End 1: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -16.2966 | -6.2634 | 0.0000 | |
| Beam 25: End 1: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -168.5678 | -57.5106 | 0.0000 | |
| Beam 25: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 146.1760 | -95.7180 | 0.0000 | |
| Beam 25: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 119.0325 | -77.9441 | 0.0000 | |
| Beam 25: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -32.6571 | 11.3554 | 3.5426 | 0.0000 | |
| Beam 25: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -17.9525 | -6.8328 | 0.0000 | |
| Beam 25: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -26.7214 | 9.2817 | 2.8951 | 0.0000 | |
| Beam 25: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -14.6794 | -5.5871 | 0.0000 | |
| Beam 25: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 49.1106 | 17.9723 | 0.0000 | |
| Beam 25: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 47.3239 | 17.3185 | 0.0000 | |
| Beam 25: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 25: End 1: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -54.1695 | 7.5707 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|-----------|--------|--|
| Beam 25: End 1: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 40.4466 | -5.6528 | 0.0000 | |
| Beam 25: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 132.1896 | 45.2878 | 0.0000 | |
| Beam 25: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 3.7046 | 63.4392 | 23.1060 | 0.0000 | |
| Beam 25: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 13.8207 | -9.0500 | 0.0000 | |
| Beam 25: End 1: 20: SPSSX | 0.0000 | 0.0000 | -42.6411 | 10.4204 | 3.0160 | 0.0000 | |
| Beam 25: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -3.9639 | -18.8520 | -7.2211 | 0.0000 | |
| Beam 25: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 342.8298 | 764.6697 | -100.0629 | 0.0000 | |
| Beam 25: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 521.6063 | 998.8327 | -66.2629 | 0.0000 | |
| Beam 25: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 363.7910 | 689.2057 | -125.3284 | 0.0000 | |
| Beam 25: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 303.9192 | 707.8175 | -119.4191 | 0.0000 | |
| Beam 25: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 364.3706 | 855.4535 | -69.0775 | 0.0000 | |
| Beam 25: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 128.6697 | 418.9481 | -8.8802 | 0.0000 | |
| Beam 25: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 338.8862 | 756.5700 | -126.2328 | 0.0000 | |
| Beam 25: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 36.8693 | 243.2087 | -25.1055 | 0.0000 | |
| Beam 25: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 287.8623 | 636.3904 | -145.4487 | 0.0000 | |
| Beam 25: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 410.9528 | 683.5488 | -177.0850 | 0.0000 | |
| Beam 25: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 401.9033 | 755.2538 | -167.6105 | 0.0000 | |
| Beam 25: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 285.3468 | 592.7453 | -144.8984 | 0.0000 | |
| Beam 25: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 321.4904 | 719.7142 | -76.1778 | 0.0000 | |
| Beam 25: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 491.6601 | 956.8840 | -41.4389 | 0.0000 | |
| Beam 25: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 333.8449 | 647.2569 | -100.5044 | 0.0000 | |
| Beam 25: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 282.5797 | 662.8620 | -95.5339 | 0.0000 | |
| Beam 25: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 343.0311 | 810.4980 | -45.1923 | 0.0000 | |
| Beam 25: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 137.2764 | 415.9414 | -9.8190 | 0.0000 | |
| Beam 25: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 317.5467 | 711.6145 | -102.3476 | 0.0000 | |
| Beam 25: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 45.4761 | 240.2019 | -26.0443 | 0.0000 | |
| Beam 25: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 267.1014 | 594.0257 | -120.6154 | 0.0000 | |
| Beam 25: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 382.5920 | 648.9368 | -149.5067 | 0.0000 | |
| Beam 25: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 379.4210 | 713.4904 | -142.5894 | 0.0000 | |
| Beam 25: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 262.8645 | 550.9819 | -119.8773 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|----------|----------|-----------|--------|
| Beam 25: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 295.6792 | 670.9169 | -132.9231 | 0.0000 |
| Beam 25: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 274.9183 | 628.5522 | -108.0898 | 0.0000 |
| Beam 25: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 191.8792 | 441.1887 | -21.9950 | 0.0000 |
| Beam 25: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 185.6917 | 432.8962 | -16.5650 | 0.0000 |
| Beam 25: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 145.7929 | 343.5827 | -57.9698 | 0.0000 |
| Beam 25: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 139.6054 | 335.2903 | -52.5398 | 0.0000 |
| Beam 25: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 199.2796 | 419.6522 | -39.4494 | 0.0000 |
| Beam 25: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 178.6544 | 392.0107 | -21.3494 | 0.0000 |
| Beam 25: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 185.4537 | 390.3704 | -50.2418 | 0.0000 |
| Beam 25: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 164.8285 | 362.7289 | -32.1418 | 0.0000 |
| Beam 25: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 188.9358 | 434.9879 | -18.7005 | 0.0000 |
| Beam 25: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 182.7483 | 426.6955 | -13.2705 | 0.0000 |
| Beam 25: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 142.8495 | 337.3820 | -54.6753 | 0.0000 |
| Beam 25: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 136.6620 | 329.0895 | -49.2453 | 0.0000 |
| Beam 25: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 196.3362 | 413.4514 | -36.1549 | 0.0000 |
| Beam 25: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 175.7110 | 385.8099 | -18.0549 | 0.0000 |
| Beam 25: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 182.5103 | 384.1696 | -46.9473 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |


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|---|--------|--------|----------|----------|----------|
| Beam 25: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 161.8851 | 356.5282 | -28.8473 |
| Beam 25: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 238.2703 | 494.2235 | -72.7827 |
| Beam 25: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 209.1941 | 507.7971 | -34.9421 |
| Beam 25: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 288.5549 | 630.8684 | -42.9608 |
| Beam 25: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 227.6906 | 474.8978 | -57.5619 |
| Beam 25: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 197.9761 | 485.6126 | -20.7676 |
| Beam 25: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 276.7814 | 606.0653 | -29.7828 |
| Beam 25: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 271.3387 | 606.3015 | -61.4618 |
| Beam 25: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 257.0208 | 577.0845 | -44.3353 |
| Beam 25: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 123.1328 | 283.5956 | -10.8861 |
| Beam 25: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 251.2734 | 565.3606 | -43.7399 |
| Beam 25: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 239.8191 | 541.9870 | -30.0388 |
| Beam 25: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 521.6063 | 998.8327 | 177.0850 |
| Beam 25: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 521.6063 | 998.8327 | 177.0850 |
| Beam 25: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 199.2796 | 441.1887 | 57.9698 |
| Beam 25: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 288.5549 | 630.8684 | 72.7827 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 25: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 251.2734 | 565.3606 | 43.7399 | |
| 0.0000 | | | | | | |
| Beam 25: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 123.1328 | 283.5956 | 10.8861 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 1: PP | 0.0000 | 0.0000 | 172.4289 | 374.5757 | 52.2833 | 0.0000 |
| Beam 25: End 2: 2: PERM | 0.0000 | 0.0000 | 65.2880 | 147.1806 | 4.5287 | 0.0000 |
| Beam 25: End 2: 3: SPTSX | 0.0000 | 0.0000 | -38.2724 | -3.1324 | 2.2072 | 0.0000 |
| Beam 25: End 2: 4: SPTDX | 0.0000 | 0.0000 | -3.4108 | -17.1493 | -6.2634 | 0.0000 |
| Beam 25: End 2: 5: SPTW | 0.0000 | 0.0000 | -75.4046 | -187.4190 | -57.5106 | 0.0000 |
| Beam 25: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 109.0719 | 173.4439 | -95.7180 | 0.0000 |
| Beam 25: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 88.8183 | 141.2371 | -77.9441 | 0.0000 |
| Beam 25: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -37.3321 | 2.6067 | 3.5426 | 0.0000 |
| Beam 25: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -3.8079 | -18.9044 | -6.8328 | 0.0000 |
| Beam 25: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -30.5464 | 2.1232 | 2.8951 | 0.0000 |
| Beam 25: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -3.1136 | -15.4578 | -5.5871 | 0.0000 |
| Beam 25: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | 51.8523 | 17.9723 | 0.0000 |
| Beam 25: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | 49.9657 | 17.3185 | 0.0000 |
| Beam 25: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 25: End 2: 15: TERM | 0.0000 | 0.0000 | -38.8522 | -63.8825 | 7.5707 | 0.0000 |
| Beam 25: End 2: 16: RITIRO | 0.0000 | 0.0000 | 29.0096 | 47.6990 | -5.6528 | 0.0000 |
| Beam 25: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 53.1424 | 145.4752 | 45.2878 | 0.0000 |
| Beam 25: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 2.3221 | 64.1925 | 23.1060 | 0.0000 |
| Beam 25: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 10.3126 | 16.3989 | -9.0500 | 0.0000 |
| Beam 25: End 2: 20: SPSSX | 0.0000 | 0.0000 | -48.6161 | -0.9867 | 3.0160 | 0.0000 |
| Beam 25: End 2: 21: SPSDX | 0.0000 | 0.0000 | -3.9639 | -19.8430 | -7.2211 | 0.0000 |
| Beam 25: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 333.5473 | 849.2066 | -91.7858 | 0.0000 |
| Beam 25: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 519.1026 | 1128.9111 | -57.9857 | 0.0000 |
| Beam 25: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 361.2873 | 779.8302 | -117.0512 | 0.0000 |
| Beam 25: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 293.7604 | 782.5136 | -111.1419 | 0.0000 |
| Beam 25: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 354.2117 | 945.2625 | -60.8003 | 0.0000 |
| Beam 25: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 118.5108 | 449.8318 | -0.6030 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|-----------|--------|
| Beam 25: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 328.7274 | 840.0078 | -117.9556 | 0.0000 |
| Beam 25: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 26.7105 | 251.1423 | -18.9743 | 0.0000 |
| Beam 25: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 277.7035 | 707.0723 | -137.1715 | 0.0000 |
| Beam 25: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 408.4491 | 785.9637 | -168.8078 | 0.0000 |
| Beam 25: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 393.9766 | 854.7285 | -159.3333 | 0.0000 |
| Beam 25: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 277.4200 | 663.0809 | -136.6212 | 0.0000 |
| Beam 25: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 313.4404 | 799.0702 | -67.9006 | 0.0000 |
| Beam 25: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 489.1564 | 1079.4758 | -33.1617 | 0.0000 |
| Beam 25: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 331.3411 | 730.3949 | -92.2272 | 0.0000 |
| Beam 25: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 273.6534 | 732.3773 | -87.2568 | 0.0000 |
| Beam 25: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 334.1048 | 895.1262 | -36.9151 | 0.0000 |
| Beam 25: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 128.3501 | 449.1308 | -1.5418 | 0.0000 |
| Beam 25: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 308.6204 | 789.8715 | -94.0704 | 0.0000 |
| Beam 25: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 36.5498 | 250.4413 | -19.9131 | 0.0000 |
| Beam 25: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 258.1750 | 659.6714 | -112.3382 | 0.0000 |
| Beam 25: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 380.0882 | 744.2616 | -141.2295 | 0.0000 |
| Beam 25: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 372.4803 | 807.4678 | -134.3122 | 0.0000 |
| Beam 25: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 255.9237 | 615.8202 | -111.6001 | 0.0000 |
| Beam 25: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 285.5204 | 743.5529 | -124.6459 | 0.0000 |
| Beam 25: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 265.9919 | 696.1521 | -99.8126 | 0.0000 |
| Beam 25: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 187.0580 | 488.5455 | -15.8637 | 0.0000 |
| Beam 25: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 180.8704 | 478.7062 | -10.4337 | 0.0000 |
| Beam 25: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 137.7617 | 379.0168 | -51.8386 | 0.0000 |
| Beam 25: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 131.5741 | 369.1775 | -46.4086 | 0.0000 |
| Beam 25: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 195.4261 | 468.9801 | -33.3181 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 25: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 174.8009 | 436.1824 | -15.2181 |
| Beam 25: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 180.6372 | 436.1215 | -44.1106 |
| Beam 25: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 160.0120 | 403.3237 | -26.0106 |
| Beam 25: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 184.2846 | 481.6302 | -12.5692 |
| Beam 25: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 178.0970 | 471.7909 | -7.1392 |
| Beam 25: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 134.9883 | 372.1014 | -48.5441 |
| Beam 25: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 128.8007 | 362.2621 | -43.1141 |
| Beam 25: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 192.6527 | 462.0647 | -30.0236 |
| Beam 25: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 172.0275 | 429.2670 | -11.9236 |
| Beam 25: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 177.8638 | 429.2061 | -40.8161 |
| Beam 25: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 157.2386 | 396.4084 | -22.7161 |
| Beam 25: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 232.0265 | 553.0004 | -66.6514 |
| Beam 25: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 202.9504 | 559.3049 | -28.8109 |
| Beam 25: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 282.3111 | 702.2164 | -36.8296 |
| Beam 25: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 222.1269 | 531.1147 | -51.4307 |
| Beam 25: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 192.4124 | 534.4009 | -14.6363 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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| Beam 25: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 271.2176 | 674.5549 | -23.6516 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 264.1600 | 673.2286 | -55.3305 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 250.6921 | 640.5383 | -38.2041 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 120.6291 | 314.0556 | -4.7548 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 245.0296 | 627.3882 | -37.6087 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 234.2553 | 601.2360 | -23.9075 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 519.1026 | 1128.9111 | 168.8078 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 519.1026 | 1128.9111 | 168.8078 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 195.4261 | 488.5455 | 51.8386 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 282.3111 | 702.2164 | 66.6514 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 245.0296 | 627.3882 | 37.6087 | |
| 0.0000 | | | | | | |
| Beam 25: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 120.6291 | 314.0556 | 4.7548 | |
| 0.0000 | | | | | | |
| Beam 26: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | -341.0043 | -49.4955 | 0.0000 |
| Beam 26: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -123.7644 | 4.5287 | 0.0000 |
| Beam 26: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -2.9944 | -6.2634 | 0.0000 |
| Beam 26: End 1: 4: SPTDX | 0.0000 | 0.0000 | -53.2220 | -3.4676 | 2.2072 | 0.0000 |
| Beam 26: End 1: 5: SPTW | 0.0000 | 0.0000 | 48.0985 | 104.0263 | -57.5106 | 0.0000 |
| Beam 26: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -279.2044 | -95.7180 | 0.0000 |
| Beam 26: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -227.3590 | -77.9441 | 0.0000 |
| Beam 26: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -3.1017 | -6.8328 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 26: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -40.2729 | -3.4954 | 3.5426 | 0.0000 |
| Beam 26: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -2.5365 | -5.5871 | 0.0000 |
| Beam 26: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -32.9486 | -2.8611 | 2.8951 | 0.0000 |
| Beam 26: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -6.3410 | -17.9723 | 0.0000 |
| Beam 26: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -6.1103 | -17.3185 | 0.0000 |
| Beam 26: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 26: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 97.3540 | 7.5707 | 0.0000 |
| Beam 26: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -72.6910 | -5.6528 | 0.0000 |
| Beam 26: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -75.0656 | 45.2878 | 0.0000 |
| Beam 26: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 25.2716 | -6.9357 | -23.1060 | 0.0000 |
| Beam 26: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -26.3984 | -9.0500 | 0.0000 |
| Beam 26: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -3.3927 | -7.2211 | 0.0000 |
| Beam 26: End 1: 21: SPSDX | 0.0000 | 0.0000 | -50.5689 | -5.0390 | 3.0160 | 0.0000 |
| Beam 26: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -469.1549 | -966.9765 | -296.3511 | 0.0000 |
| Beam 26: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -606.1000 | -1224.4030 | -247.5067 | 0.0000 |
| Beam 26: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -457.8419 | -926.0698 | -306.5723 | 0.0000 |
| Beam 26: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -451.1267 | -931.6154 | -318.6720 | 0.0000 |
| Beam 26: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -531.3995 | -1019.9051 | -265.3657 | 0.0000 |
| Beam 26: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -327.5017 | -518.7881 | -153.0486 | 0.0000 |
| Beam 26: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -486.0937 | -1019.2340 | -325.4857 | 0.0000 |
| Beam 26: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -215.8799 | -336.3407 | -138.7620 | 0.0000 |
| Beam 26: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -466.8728 | -922.0315 | -292.5819 | 0.0000 |
| Beam 26: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -620.5453 | -1098.0051 | -288.2001 | 0.0000 |
| Beam 26: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -581.0438 | -1154.9472 | -305.8053 | 0.0000 |
| Beam 26: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -464.4873 | -862.8852 | -283.0932 | 0.0000 |
| Beam 26: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -441.3726 | -890.6466 | -267.8247 | 0.0000 |
| Beam 26: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -577.3109 | -1148.8925 | -220.7865 | 0.0000 |
| Beam 26: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -429.0528 | -850.5594 | -279.8521 | 0.0000 |
| Beam 26: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -423.3444 | -855.2854 | -290.1456 | 0.0000 |
| Beam 26: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -503.6172 | -943.5752 | -236.8393 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|------------|-----------|--------|
| Beam 26: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -328.5084 | -517.9685 | -151.2424 | 0.0000 |
| Beam 26: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -458.3113 | -942.9040 | -296.9592 | 0.0000 |
| Beam 26: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -216.8866 | -335.5212 | -136.9558 | 0.0000 |
| Beam 26: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -438.5119 | -846.0360 | -265.0036 | 0.0000 |
| Beam 26: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -580.5574 | -1021.9095 | -263.3668 | 0.0000 |
| Beam 26: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -552.4816 | -1079.1157 | -278.5883 | 0.0000 |
| Beam 26: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -435.9250 | -787.0536 | -255.8762 | 0.0000 |
| Beam 26: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -459.3667 | -926.8509 | -305.1680 | 0.0000 |
| Beam 26: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -431.0058 | -850.8554 | -277.5897 | 0.0000 |
| Beam 26: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -335.1159 | -566.1960 | -162.8813 | 0.0000 |
| Beam 26: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -328.9283 | -550.3569 | -157.4513 | 0.0000 |
| Beam 26: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -331.1262 | -550.6784 | -126.9065 | 0.0000 |
| Beam 26: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -324.9386 | -534.8393 | -121.4765 | 0.0000 |
| Beam 26: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -324.6266 | -576.2926 | -155.1533 | 0.0000 |
| Beam 26: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -304.0014 | -523.4959 | -137.0533 | 0.0000 |
| Beam 26: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -323.4296 | -571.6373 | -144.3609 | 0.0000 |
| Beam 26: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -302.8045 | -518.8406 | -126.2609 | 0.0000 |
| Beam 26: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -331.2838 | -555.6677 | -158.9466 | 0.0000 |
| Beam 26: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -325.0963 | -539.8287 | -153.5166 | 0.0000 |
| Beam 26: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -327.2941 | -540.1501 | -122.9718 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|-----------|-----------|-----------|
| Beam 26: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -321.1066 | -524.3111 | -117.5418 |
| Beam 26: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -320.7945 | -565.7643 | -151.2187 |
| Beam 26: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -300.1693 | -512.9676 | -133.1187 |
| Beam 26: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -319.5976 | -561.1091 | -140.4262 |
| Beam 26: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -298.9724 | -508.3123 | -122.3262 |
| Beam 26: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -430.4575 | -709.2377 | -139.6745 |
| Beam 26: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -366.2884 | -602.5585 | -159.3454 |
| Beam 26: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -399.0579 | -788.5845 | -177.3585 |
| Beam 26: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -408.6315 | -666.9863 | -125.4999 |
| Beam 26: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -345.1007 | -559.9380 | -144.1246 |
| Beam 26: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -383.7298 | -746.4714 | -161.6198 |
| Beam 26: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -394.5906 | -770.3371 | -186.4972 |
| Beam 26: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -375.0313 | -717.9264 | -167.4777 |
| Beam 26: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -239.4296 | -367.2044 | -106.5336 |
| Beam 26: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -370.5497 | -703.6217 | -163.7597 |
| Beam 26: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -354.9023 | -661.6932 | -148.5441 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|-----------|----------|--------|
| Beam 26: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 620.5453 | 1224.4030 | 325.4857 | 0.0000 |
| Beam 26: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 620.5453 | 1224.4030 | 325.4857 | 0.0000 |
| Beam 26: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 335.1159 | 576.2926 | 162.8813 | 0.0000 |
| Beam 26: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 430.4575 | 788.5845 | 186.4972 | 0.0000 |
| Beam 26: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 370.5497 | 703.6217 | 163.7597 | 0.0000 |
| Beam 26: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 239.4296 | 367.2044 | 106.5336 | 0.0000 |
| Beam 26: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | -384.1115 | -55.6267 | 0.0000 |
| Beam 26: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -140.0864 | 4.5287 | 0.0000 |
| Beam 26: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -2.1417 | -6.2634 | 0.0000 |
| Beam 26: End 2: 4: SPTDX | 0.0000 | 0.0000 | -61.1595 | -17.7606 | 2.2072 | 0.0000 |
| Beam 26: End 2: 5: SPTW | 0.0000 | 0.0000 | 41.9610 | 115.2968 | -57.5106 | 0.0000 |
| Beam 26: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -306.4724 | -95.7180 | 0.0000 |
| Beam 26: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -249.5636 | -77.9441 | 0.0000 |
| Beam 26: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -2.1498 | -6.8328 | 0.0000 |
| Beam 26: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -44.9479 | -14.1480 | 3.5426 | 0.0000 |
| Beam 26: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -1.7581 | -5.5871 | 0.0000 |
| Beam 26: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -36.7736 | -11.5764 | 2.8951 | 0.0000 |
| Beam 26: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -3.5994 | -17.9723 | 0.0000 |
| Beam 26: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -3.4684 | -17.3185 | 0.0000 |
| Beam 26: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 26: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 107.0671 | 7.5707 | 0.0000 |
| Beam 26: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -79.9434 | -5.6528 | 0.0000 |
| Beam 26: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -88.3512 | 45.2878 | 0.0000 |
| Beam 26: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 26.6541 | -0.4449 | -23.1060 | 0.0000 |
| Beam 26: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -28.9765 | -9.0500 | 0.0000 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|-----------|------------|-----------|--------|--|
| Beam 26: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -2.4017 | -7.2211 | 0.0000 | |
| Beam 26: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -56.5439 | -18.4281 | 3.0160 | 0.0000 | |
| Beam 26: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -483.2299 | -1086.0069 | -304.6283 | 0.0000 | |
| Beam 26: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -620.1750 | -1377.6696 | -255.7839 | 0.0000 | |
| Beam 26: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -474.0650 | -1042.5359 | -314.8495 | 0.0000 | |
| Beam 26: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -467.3498 | -1046.4027 | -326.9492 | 0.0000 | |
| Beam 26: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -550.4008 | -1155.1063 | -273.6429 | 0.0000 | |
| Beam 26: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -346.5029 | -603.0148 | -161.3258 | 0.0000 | |
| Beam 26: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -502.3168 | -1142.7630 | -333.7628 | 0.0000 | |
| Beam 26: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -232.1030 | -392.3163 | -144.8933 | 0.0000 | |
| Beam 26: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -483.0959 | -1040.7553 | -300.8590 | 0.0000 | |
| Beam 26: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -646.3253 | -1256.3401 | -296.4773 | 0.0000 | |
| Beam 26: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -600.0451 | -1302.5594 | -314.0825 | 0.0000 | |
| Beam 26: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -483.4885 | -981.3582 | -291.3704 | 0.0000 | |
| Beam 26: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -455.4476 | -1002.7314 | -276.1019 | 0.0000 | |
| Beam 26: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -591.3859 | -1294.9619 | -229.0637 | 0.0000 | |
| Beam 26: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -445.2759 | -959.8282 | -288.1292 | 0.0000 | |
| Beam 26: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -439.5675 | -963.1271 | -298.4228 | 0.0000 | |
| Beam 26: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -522.6184 | -1071.8307 | -245.1165 | 0.0000 | |
| Beam 26: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -347.5097 | -602.4469 | -159.5196 | 0.0000 | |
| Beam 26: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -474.5344 | -1059.4875 | -305.2364 | 0.0000 | |
| Beam 26: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -233.1098 | -391.7485 | -143.0871 | 0.0000 | |
| Beam 26: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -454.7350 | -957.6696 | -273.2808 | 0.0000 | |
| Beam 26: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -605.1049 | -1170.0934 | -271.6440 | 0.0000 | |
| Beam 26: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -571.4828 | -1219.5873 | -286.8654 | 0.0000 | |
| Beam 26: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -454.9263 | -898.3861 | -264.1533 | 0.0000 | |
| Beam 26: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -475.5898 | -1043.6982 | -313.4452 | 0.0000 | |
| Beam 26: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -447.2290 | -960.6125 | -285.8669 | 0.0000 | |
| Beam 26: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -353.7834 | -652.2907 | -169.0126 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|
| Beam 26: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | -347.5958 | -634.9048 | -163.5826 |
| Beam 26: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | -346.5837 | -635.3744 | -133.0377 |
| Beam 26: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -340.3961 | -617.9885 | -127.6077 |
| Beam 26: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -340.0793 | -659.3631 | -161.2846 |
| Beam 26: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -319.4541 | -601.4101 | -143.1846 |
| Beam 26: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -337.9194 | -654.2882 | -150.4921 |
| Beam 26: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -317.2942 | -596.3352 | -132.3921 |
| Beam 26: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -349.9513 | -640.8044 | -165.0779 |
| Beam 26: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -343.7638 | -623.4185 | -159.6479 |
| Beam 26: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -342.7516 | -623.8881 | -129.1031 |
| Beam 26: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -336.5641 | -606.5022 | -123.6731 |
| Beam 26: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -336.2473 | -647.8768 | -157.3499 |
| Beam 26: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -315.6221 | -589.9238 | -139.2499 |
| Beam 26: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -334.0873 | -642.8020 | -146.5575 |
| Beam 26: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -313.4622 | -584.8489 | -128.4575 |
| Beam 26: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -448.2725 | -819.0613 | -145.8057 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|-----------|-----------|
| Beam 26: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -384.1034 | -696.3398 | -165.4766 |
| 0.0000 | | | | | |
| Beam 26: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -411.5454 | -889.8932 | -183.4897 |
| 0.0000 | | | | | |
| Beam 26: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -425.7665 | -771.2684 | -131.6312 |
| 0.0000 | | | | | |
| Beam 26: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -362.2357 | -648.3374 | -150.2558 |
| 0.0000 | | | | | |
| Beam 26: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -396.2173 | -843.9480 | -167.7510 |
| 0.0000 | | | | | |
| Beam 26: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -407.0781 | -870.5289 | -192.6285 |
| 0.0000 | | | | | |
| Beam 26: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -387.5188 | -813.2284 | -173.6089 |
| 0.0000 | | | | | |
| Beam 26: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -253.5046 | -428.8035 | -112.6648 |
| 0.0000 | | | | | |
| Beam 26: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -383.0372 | -797.8033 | -169.8909 |
| 0.0000 | | | | | |
| Beam 26: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -367.3898 | -751.9629 | -154.6753 |
| 0.0000 | | | | | |
| Beam 26: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 646.3253 | 1377.6696 | 333.7628 |
| 0.0000 | | | | | |
| Beam 26: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 646.3253 | 1377.6696 | 333.7628 |
| 0.0000 | | | | | |
| Beam 26: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 353.7834 | 659.3631 | 169.0126 |
| 0.0000 | | | | | |
| Beam 26: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 448.2725 | 889.8932 | 192.6285 |
| 0.0000 | | | | | |
| Beam 26: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 383.0372 | 797.8033 | 169.8909 |
| 0.0000 | | | | | |
| Beam 26: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 253.5046 | 428.8035 | 112.6648 |
| 0.0000 | | | | | |
| Beam 27: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | -297.8970 | -43.3642 |
| | | | | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|------------|-----------|--------|--|
| Beam 27: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -107.4425 | 4.5287 | 0.0000 | |
| Beam 27: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -3.8471 | -6.2634 | 0.0000 | |
| Beam 27: End 1: 4: SPTDX | 0.0000 | 0.0000 | -45.5220 | 8.8702 | 2.2072 | 0.0000 | |
| Beam 27: End 1: 5: SPTW | 0.0000 | 0.0000 | 53.6110 | 91.2996 | -57.5106 | 0.0000 | |
| Beam 27: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -251.9365 | -95.7180 | 0.0000 | |
| Beam 27: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -205.1544 | -77.9441 | 0.0000 | |
| Beam 27: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -4.0537 | -6.8328 | 0.0000 | |
| Beam 27: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -35.5979 | 5.9884 | 3.5426 | 0.0000 | |
| Beam 27: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -3.3149 | -5.5871 | 0.0000 | |
| Beam 27: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -29.1236 | 4.8979 | 2.8951 | 0.0000 | |
| Beam 27: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -9.0827 | -17.9723 | 0.0000 | |
| Beam 27: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -8.7522 | -17.3185 | 0.0000 | |
| Beam 27: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 27: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 87.6410 | 7.5707 | 0.0000 | |
| Beam 27: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -65.4386 | -5.6528 | 0.0000 | |
| Beam 27: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -61.7800 | 45.2878 | 0.0000 | |
| Beam 27: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 23.8891 | -13.0807 | -23.1060 | 0.0000 | |
| Beam 27: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -23.8202 | -9.0500 | 0.0000 | |
| Beam 27: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -4.3836 | -7.2211 | 0.0000 | |
| Beam 27: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -44.5939 | 6.8564 | 3.0160 | 0.0000 | |
| Beam 27: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -455.9424 | -851.3576 | -288.0739 | 0.0000 | |
| Beam 27: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -592.8875 | -1074.5478 | -239.2296 | 0.0000 | |
| Beam 27: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -442.7000 | -813.5249 | -298.2951 | 0.0000 | |
| Beam 27: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -435.9848 | -820.7492 | -310.3948 | 0.0000 | |
| Beam 27: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -513.5626 | -889.3095 | -257.0885 | 0.0000 | |
| Beam 27: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -309.6648 | -439.1669 | -144.7714 | 0.0000 | |
| Beam 27: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -470.9518 | -899.6261 | -317.2085 | 0.0000 | |
| Beam 27: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -200.7380 | -284.2863 | -132.6308 | 0.0000 | |
| Beam 27: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -451.7309 | -807.2288 | -284.3047 | 0.0000 | |
| Beam 27: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -595.9297 | -945.9704 | -279.9229 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|------------|-----------|--------|
| Beam 27: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -563.2069 | -1011.9405 | -297.5281 | 0.0000 |
| Beam 27: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -446.6504 | -749.0176 | -274.8160 | 0.0000 |
| Beam 27: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -428.1601 | -781.9732 | -259.5475 | 0.0000 |
| Beam 27: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -564.0984 | -1006.2346 | -212.5093 | 0.0000 |
| Beam 27: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -413.9109 | -745.2117 | -271.5749 | 0.0000 |
| Beam 27: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -408.2025 | -751.3648 | -281.8684 | 0.0000 |
| Beam 27: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -485.7803 | -819.9251 | -228.5621 | 0.0000 |
| Beam 27: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -310.6716 | -438.0957 | -142.9652 | 0.0000 |
| Beam 27: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -443.1694 | -830.2417 | -288.6820 | 0.0000 |
| Beam 27: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -201.7448 | -283.2150 | -130.8246 | 0.0000 |
| Beam 27: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -423.3700 | -738.3235 | -256.7264 | 0.0000 |
| Beam 27: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -557.1743 | -879.7177 | -255.0896 | 0.0000 |
| Beam 27: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -534.6447 | -943.2495 | -270.3111 | 0.0000 |
| Beam 27: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -418.0882 | -680.3266 | -247.5990 | 0.0000 |
| Beam 27: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -444.2248 | -813.9247 | -296.8908 | 0.0000 |
| Beam 27: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -415.8640 | -745.0195 | -269.3125 | 0.0000 |
| Beam 27: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -317.3109 | -484.6609 | -156.7501 | 0.0000 |
| Beam 27: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -311.1233 | -470.3687 | -151.3201 | 0.0000 |
| Beam 27: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -316.5312 | -469.7394 | -120.7752 | 0.0000 |
| Beam 27: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -310.3436 | -455.4473 | -115.3452 | 0.0000 |
| Beam 27: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -310.0363 | -496.9780 | -149.0221 | 0.0000 |
| Beam 27: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -289.4111 | -449.3375 | -130.9221 | 0.0000 |
| Beam 27: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -309.8024 | -492.5016 | -138.2296 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 27: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -289.1772 | -444.8611 | -120.1296 |
| Beam 27: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -313.4788 | -475.0906 | -152.8154 |
| Beam 27: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -307.2913 | -460.7985 | -147.3854 |
| Beam 27: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -312.6991 | -460.1692 | -116.8406 |
| Beam 27: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -306.5116 | -445.8770 | -111.4106 |
| Beam 27: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -306.2043 | -487.4077 | -145.0874 |
| Beam 27: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -285.5791 | -439.7673 | -126.9874 |
| Beam 27: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -305.9703 | -482.9313 | -134.2950 |
| Beam 27: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -285.3452 | -435.2908 | -116.1950 |
| Beam 27: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -413.5050 | -603.7606 | -133.5432 |
| Beam 27: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -349.3359 | -513.1237 | -153.2141 |
| Beam 27: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -387.3854 | -690.2963 | -171.2272 |
| Beam 27: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -392.3590 | -566.8808 | -119.3687 |
| Beam 27: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -328.8282 | -475.7151 | -137.9933 |
| Beam 27: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -372.0573 | -652.0153 | -155.4885 |
| Beam 27: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -382.9181 | -673.1657 | -180.3660 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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| Beam 27: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -363.3588 | -625.6448 | -161.3464 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -226.2171 | -309.0168 | -100.4023 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -358.8772 | -612.4605 | -157.6284 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -343.2298 | -574.4438 | -142.4128 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 595.9297 | 1074.5478 | 317.2085 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 595.9297 | 1074.5478 | 317.2085 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 317.3109 | 496.9780 | 156.7501 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 413.5050 | 690.2963 | 180.3660 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 358.8772 | 612.4605 | 157.6284 | |
| 0.0000 | | | | | | |
| Beam 27: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 226.2171 | 309.0168 | 100.4023 | |
| 0.0000 | | | | | | |
| Beam 27: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | -341.0043 | -49.4955 | 0.0000 |
| Beam 27: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -123.7644 | 4.5287 | 0.0000 |
| Beam 27: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -2.9944 | -6.2634 | 0.0000 |
| Beam 27: End 2: 4: SPTDX | 0.0000 | 0.0000 | -53.2220 | -3.4676 | 2.2072 | 0.0000 |
| Beam 27: End 2: 5: SPTW | 0.0000 | 0.0000 | 48.0985 | 104.0263 | -57.5106 | 0.0000 |
| Beam 27: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -279.2044 | -95.7180 | 0.0000 |
| Beam 27: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -227.3590 | -77.9441 | 0.0000 |
| Beam 27: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -3.1017 | -6.8328 | 0.0000 |
| Beam 27: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -40.2729 | -3.4954 | 3.5426 | 0.0000 |
| Beam 27: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -2.5365 | -5.5871 | 0.0000 |
| Beam 27: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -32.9486 | -2.8611 | 2.8951 | 0.0000 |
| Beam 27: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -6.3410 | -17.9723 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 27: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -6.1103 | -17.3185 | 0.0000 | |
| Beam 27: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 27: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 97.3540 | 7.5707 | 0.0000 | |
| Beam 27: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -72.6910 | -5.6528 | 0.0000 | |
| Beam 27: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -75.0656 | 45.2878 | 0.0000 | |
| Beam 27: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 25.2716 | -6.9357 | -23.1060 | 0.0000 | |
| Beam 27: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -26.3984 | -9.0500 | 0.0000 | |
| Beam 27: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -3.3927 | -7.2211 | 0.0000 | |
| Beam 27: End 2: 21: SPSDX | 0.0000 | 0.0000 | -50.5689 | -5.0390 | 3.0160 | 0.0000 | |
| Beam 27: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -469.1549 | -966.9765 | -296.3511 | 0.0000 | |
| Beam 27: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -606.1000 | -1224.4030 | -247.5067 | 0.0000 | |
| Beam 27: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -457.8419 | -926.0698 | -306.5723 | 0.0000 | |
| Beam 27: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -451.1267 | -931.6154 | -318.6720 | 0.0000 | |
| Beam 27: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -531.3995 | -1019.9051 | -265.3657 | 0.0000 | |
| Beam 27: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -327.5017 | -518.7881 | -153.0486 | 0.0000 | |
| Beam 27: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -486.0937 | -1019.2340 | -325.4857 | 0.0000 | |
| Beam 27: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -215.8799 | -336.3407 | -138.7620 | 0.0000 | |
| Beam 27: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -466.8728 | -922.0315 | -292.5819 | 0.0000 | |
| Beam 27: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -620.5453 | -1098.0051 | -288.2001 | 0.0000 | |
| Beam 27: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -581.0438 | -1154.9472 | -305.8053 | 0.0000 | |
| Beam 27: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -464.4873 | -862.8852 | -283.0932 | 0.0000 | |
| Beam 27: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -441.3726 | -890.6466 | -267.8247 | 0.0000 | |
| Beam 27: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -577.3109 | -1148.8925 | -220.7865 | 0.0000 | |
| Beam 27: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -429.0528 | -850.5594 | -279.8521 | 0.0000 | |
| Beam 27: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -423.3444 | -855.2854 | -290.1456 | 0.0000 | |
| Beam 27: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -503.6172 | -943.5752 | -236.8393 | 0.0000 | |
| Beam 27: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -328.5084 | -517.9685 | -151.2424 | 0.0000 | |
| Beam 27: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -458.3113 | -942.9040 | -296.9592 | 0.0000 | |
| Beam 27: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -216.8866 | -335.5212 | -136.9558 | 0.0000 | |
| Beam 27: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -438.5119 | -846.0360 | -265.0036 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 27: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -580.5574 | -1021.9095 | -263.3668 | 0.0000 |
| Beam 27: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -552.4816 | -1079.1157 | -278.5883 | 0.0000 |
| Beam 27: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -435.9250 | -787.0536 | -255.8762 | 0.0000 |
| Beam 27: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -459.3667 | -926.8509 | -305.1680 | 0.0000 |
| Beam 27: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -431.0058 | -850.8554 | -277.5897 | 0.0000 |
| Beam 27: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -335.1159 | -566.1960 | -162.8813 | 0.0000 |
| Beam 27: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -328.9283 | -550.3569 | -157.4513 | 0.0000 |
| Beam 27: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -331.1262 | -550.6784 | -126.9065 | 0.0000 |
| Beam 27: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -324.9386 | -534.8393 | -121.4765 | 0.0000 |
| Beam 27: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -324.6266 | -576.2926 | -155.1533 | 0.0000 |
| Beam 27: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -304.0014 | -523.4959 | -137.0533 | 0.0000 |
| Beam 27: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -323.4296 | -571.6373 | -144.3609 | 0.0000 |
| Beam 27: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -302.8045 | -518.8406 | -126.2609 | 0.0000 |
| Beam 27: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -331.2838 | -555.6677 | -158.9466 | 0.0000 |
| Beam 27: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -325.0963 | -539.8287 | -153.5166 | 0.0000 |
| Beam 27: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -327.2941 | -540.1501 | -122.9718 | 0.0000 |
| Beam 27: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -321.1066 | -524.3111 | -117.5418 | 0.0000 |
| Beam 27: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -320.7945 | -565.7643 | -151.2187 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 27: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -300.1693 | -512.9676 | -133.1187 |
| Beam 27: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -319.5976 | -561.1091 | -140.4262 |
| Beam 27: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -298.9724 | -508.3123 | -122.3262 |
| Beam 27: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -430.4575 | -709.2377 | -139.6745 |
| Beam 27: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -366.2884 | -602.5585 | -159.3454 |
| Beam 27: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -399.0579 | -788.5845 | -177.3585 |
| Beam 27: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -408.6315 | -666.9863 | -125.4999 |
| Beam 27: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -345.1007 | -559.9380 | -144.1246 |
| Beam 27: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -383.7298 | -746.4714 | -161.6198 |
| Beam 27: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -394.5906 | -770.3371 | -186.4972 |
| Beam 27: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -375.0313 | -717.9264 | -167.4777 |
| Beam 27: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -239.4296 | -367.2044 | -106.5336 |
| Beam 27: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -370.5497 | -703.6217 | -163.7597 |
| Beam 27: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -354.9023 | -661.6932 | -148.5441 |
| Beam 27: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 620.5453 | 1224.4030 | 325.4857 |
| Beam 27: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 620.5453 | 1224.4030 | 325.4857 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 27: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 335.1159 | 576.2926 | 162.8813 | |
| 0.0000 | | | | | | |
| Beam 27: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 430.4575 | 788.5845 | 186.4972 | |
| 0.0000 | | | | | | |
| Beam 27: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 370.5497 | 703.6217 | 163.7597 | |
| 0.0000 | | | | | | |
| Beam 27: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 239.4296 | 367.2044 | 106.5336 | |
| 0.0000 | | | | | | |
| Beam 28: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | -232.7189 | -34.0938 | 0.0000 |
| Beam 28: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -82.7636 | 4.5287 | 0.0000 |
| Beam 28: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -5.1364 | -6.2634 | 0.0000 |
| Beam 28: End 1: 4: SPTDX | 0.0000 | 0.0000 | -34.3521 | 23.9485 | 2.2072 | 0.0000 |
| Beam 28: End 1: 5: SPTW | 0.0000 | 0.0000 | 60.7552 | 69.6392 | -57.5106 | 0.0000 |
| Beam 28: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -210.7073 | -95.7180 | 0.0000 |
| Beam 28: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -171.5811 | -77.9441 | 0.0000 |
| Beam 28: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -5.4931 | -6.8328 | 0.0000 |
| Beam 28: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -28.5293 | 18.1085 | 3.5426 | 0.0000 |
| Beam 28: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -4.4918 | -5.5871 | 0.0000 |
| Beam 28: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -23.3402 | 14.8135 | 2.8951 | 0.0000 |
| Beam 28: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -13.2280 | -17.9723 | 0.0000 |
| Beam 28: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -12.7468 | -17.3185 | 0.0000 |
| Beam 28: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 28: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 72.9549 | 7.5707 | 0.0000 |
| Beam 28: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -54.4730 | -5.6528 | 0.0000 |
| Beam 28: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -41.6922 | 45.2878 | 0.0000 |
| Beam 28: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 21.7987 | -21.7157 | -23.1060 | 0.0000 |
| Beam 28: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -19.9221 | -9.0500 | 0.0000 |
| Beam 28: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -5.8820 | -7.2211 | 0.0000 |
| Beam 28: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -35.5597 | 22.0054 | 3.0160 | 0.0000 |
| Beam 28: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -437.6283 | -682.5358 | -275.5588 | 0.0000 |
| Beam 28: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -574.5734 | -853.9607 | -226.7145 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 28: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -421.8855 | -650.1972 | -285.7800 | 0.0000 |
| Beam 28: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -415.1703 | -659.9599 | -297.8797 | 0.0000 |
| Beam 28: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -488.8386 | -699.9408 | -244.5734 | 0.0000 |
| Beam 28: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -284.9407 | -326.8717 | -132.2563 | 0.0000 |
| Beam 28: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -450.1372 | -725.6192 | -304.6934 | 0.0000 |
| Beam 28: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -179.9234 | -212.4202 | -123.3603 | 0.0000 |
| Beam 28: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -430.9164 | -640.4874 | -271.7896 | 0.0000 |
| Beam 28: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -560.9562 | -727.4041 | -267.4078 | 0.0000 |
| Beam 28: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -538.4829 | -803.8063 | -285.0130 | 0.0000 |
| Beam 28: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -421.9263 | -584.9418 | -262.3009 | 0.0000 |
| Beam 28: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -409.8460 | -623.6531 | -247.0324 | 0.0000 |
| Beam 28: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -545.7843 | -796.5299 | -199.9942 | 0.0000 |
| Beam 28: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -393.0964 | -592.7663 | -259.0598 | 0.0000 |
| Beam 28: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -387.3879 | -601.0772 | -269.3533 | 0.0000 |
| Beam 28: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -461.0563 | -641.0582 | -216.0470 | 0.0000 |
| Beam 28: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -285.9475 | -325.4198 | -130.4501 | 0.0000 |
| Beam 28: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -422.3549 | -666.7365 | -276.1669 | 0.0000 |
| Beam 28: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -180.9302 | -210.9684 | -121.5541 | 0.0000 |
| Beam 28: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -402.5555 | -582.3025 | -244.2113 | 0.0000 |
| Beam 28: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -524.0643 | -675.4488 | -242.5745 | 0.0000 |
| Beam 28: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -509.9207 | -745.9118 | -257.7960 | 0.0000 |
| Beam 28: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -393.3641 | -527.0473 | -235.0839 | 0.0000 |
| Beam 28: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -423.4103 | -650.0206 | -284.3757 | 0.0000 |
| Beam 28: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -395.0494 | -591.8358 | -256.7974 | 0.0000 |
| Beam 28: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -292.0529 | -369.5542 | -147.4796 | 0.0000 |
| Beam 28: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -285.8654 | -357.6010 | -142.0496 | 0.0000 |
| Beam 28: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -296.1267 | -354.0102 | -111.5048 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|
| Beam 28: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -289.9392 | -342.0569 | -106.0748 |
| 0.0000 | | | | | |
| Beam 28: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -289.6391 | -383.7024 | -139.7516 |
| 0.0000 | | | | | |
| Beam 28: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -269.0139 | -343.8583 | -121.6516 |
| 0.0000 | | | | | |
| Beam 28: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -290.8612 | -379.0392 | -128.9592 |
| 0.0000 | | | | | |
| Beam 28: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -270.2360 | -339.1951 | -110.8592 |
| 0.0000 | | | | | |
| Beam 28: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -288.2209 | -361.4324 | -143.5449 |
| 0.0000 | | | | | |
| Beam 28: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -282.0333 | -349.4792 | -138.1149 |
| 0.0000 | | | | | |
| Beam 28: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -292.2947 | -345.8884 | -107.5701 |
| 0.0000 | | | | | |
| Beam 28: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -286.1071 | -333.9352 | -102.1401 |
| 0.0000 | | | | | |
| Beam 28: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -285.8070 | -375.5807 | -135.8170 |
| 0.0000 | | | | | |
| Beam 28: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -265.1818 | -335.7366 | -117.7170 |
| 0.0000 | | | | | |
| Beam 28: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -287.0291 | -370.9175 | -125.0245 |
| 0.0000 | | | | | |
| Beam 28: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -266.4040 | -331.0734 | -106.9245 |
| 0.0000 | | | | | |
| Beam 28: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -389.5360 | -452.0490 | -124.2728 |
| 0.0000 | | | | | |
| Beam 28: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -325.3669 | -385.6680 | -143.9437 |
| 0.0000 | | | | | |
| Beam 28: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -371.3053 | -546.9633 | -161.9568 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 28: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -369.4182 | -422.9680 | -110.0982 | |
| Beam 28: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -305.8874 | -355.8170 | -128.7229 | |
| Beam 28: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -355.9771 | -514.4763 | -146.2181 | |
| Beam 28: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -366.8380 | -531.5214 | -171.0955 | |
| Beam 28: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -347.2787 | -491.3939 | -152.0760 | |
| Beam 28: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -207.9030 | -227.0312 | -91.1319 | |
| Beam 28: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -342.7971 | -479.9036 | -148.3580 | |
| Beam 28: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -327.1497 | -447.8016 | -133.1424 | |
| Beam 28: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 574.5734 | 853.9607 | 304.6934 | |
| Beam 28: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 574.5734 | 853.9607 | 304.6934 | |
| Beam 28: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 296.1267 | 383.7024 | 147.4796 | |
| Beam 28: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 389.5360 | 546.9633 | 171.0955 | |
| Beam 28: End 1: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 342.7971 | 479.9036 | 148.3580 | |
| Beam 28: End 1: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 207.9030 | 227.0312 | 91.1319 | |
| Beam 28: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | -297.8970 | -43.3642 | 0.0000 |
| Beam 28: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -107.4425 | 4.5287 | 0.0000 |
| Beam 28: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -3.8471 | -6.2634 | 0.0000 |
| Beam 28: End 2: 4: SPTDX | 0.0000 | 0.0000 | -45.5220 | 8.8702 | 2.2072 | 0.0000 |

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| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|------------|-----------|--------|--|
| Beam 28: End 2: 5: SPTW | 0.0000 | 0.0000 | 53.6110 | 91.2996 | -57.5106 | 0.0000 | |
| Beam 28: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -251.9365 | -95.7180 | 0.0000 | |
| Beam 28: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -205.1544 | -77.9441 | 0.0000 | |
| Beam 28: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -4.0537 | -6.8328 | 0.0000 | |
| Beam 28: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -35.5979 | 5.9884 | 3.5426 | 0.0000 | |
| Beam 28: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -3.3149 | -5.5871 | 0.0000 | |
| Beam 28: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -29.1236 | 4.8979 | 2.8951 | 0.0000 | |
| Beam 28: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -9.0827 | -17.9723 | 0.0000 | |
| Beam 28: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -8.7522 | -17.3185 | 0.0000 | |
| Beam 28: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 28: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 87.6410 | 7.5707 | 0.0000 | |
| Beam 28: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -65.4386 | -5.6528 | 0.0000 | |
| Beam 28: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -61.7800 | 45.2878 | 0.0000 | |
| Beam 28: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 23.8891 | -13.0807 | -23.1060 | 0.0000 | |
| Beam 28: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -23.8202 | -9.0500 | 0.0000 | |
| Beam 28: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -4.3836 | -7.2211 | 0.0000 | |
| Beam 28: End 2: 21: SPSDX | 0.0000 | 0.0000 | -44.5939 | 6.8564 | 3.0160 | 0.0000 | |
| Beam 28: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -455.9424 | -851.3576 | -288.0739 | 0.0000 | |
| Beam 28: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -592.8875 | -1074.5478 | -239.2296 | 0.0000 | |
| Beam 28: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -442.7000 | -813.5249 | -298.2951 | 0.0000 | |
| Beam 28: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -435.9848 | -820.7492 | -310.3948 | 0.0000 | |
| Beam 28: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -513.5626 | -889.3095 | -257.0885 | 0.0000 | |
| Beam 28: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -309.6648 | -439.1669 | -144.7714 | 0.0000 | |
| Beam 28: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -470.9518 | -899.6261 | -317.2085 | 0.0000 | |
| Beam 28: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -200.7380 | -284.2863 | -132.6308 | 0.0000 | |
| Beam 28: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -451.7309 | -807.2288 | -284.3047 | 0.0000 | |
| Beam 28: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -595.9297 | -945.9704 | -279.9229 | 0.0000 | |
| Beam 28: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -563.2069 | -1011.9405 | -297.5281 | 0.0000 | |
| Beam 28: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -446.6504 | -749.0176 | -274.8160 | 0.0000 | |
| Beam 28: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -428.1601 | -781.9732 | -259.5475 | 0.0000 | |

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|--|--------|--------|-----------|------------|-----------|--------|
| Beam 28: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -564.0984 | -1006.2346 | -212.5093 | 0.0000 |
| Beam 28: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -413.9109 | -745.2117 | -271.5749 | 0.0000 |
| Beam 28: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -408.2025 | -751.3648 | -281.8684 | 0.0000 |
| Beam 28: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -485.7803 | -819.9251 | -228.5621 | 0.0000 |
| Beam 28: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -310.6716 | -438.0957 | -142.9652 | 0.0000 |
| Beam 28: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -443.1694 | -830.2417 | -288.6820 | 0.0000 |
| Beam 28: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -201.7448 | -283.2150 | -130.8246 | 0.0000 |
| Beam 28: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -423.3700 | -738.3235 | -256.7264 | 0.0000 |
| Beam 28: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -557.1743 | -879.7177 | -255.0896 | 0.0000 |
| Beam 28: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -534.6447 | -943.2495 | -270.3111 | 0.0000 |
| Beam 28: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -418.0882 | -680.3266 | -247.5990 | 0.0000 |
| Beam 28: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -444.2248 | -813.9247 | -296.8908 | 0.0000 |
| Beam 28: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -415.8640 | -745.0195 | -269.3125 | 0.0000 |
| Beam 28: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -317.3109 | -484.6609 | -156.7501 | 0.0000 |
| Beam 28: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -311.1233 | -470.3687 | -151.3201 | 0.0000 |
| Beam 28: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -316.5312 | -469.7394 | -120.7752 | 0.0000 |
| Beam 28: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -310.3436 | -455.4473 | -115.3452 | 0.0000 |
| Beam 28: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -310.0363 | -496.9780 | -149.0221 | 0.0000 |
| Beam 28: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -289.4111 | -449.3375 | -130.9221 | 0.0000 |
| Beam 28: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -309.8024 | -492.5016 | -138.2296 | 0.0000 |
| Beam 28: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -289.1772 | -444.8611 | -120.1296 | 0.0000 |
| Beam 28: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -313.4788 | -475.0906 | -152.8154 | 0.0000 |

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|--|--------|--------|-----------|-----------|-----------|
| Beam 28: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -307.2913 | -460.7985 | -147.3854 |
| 0.0000 | | | | | |
| Beam 28: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -312.6991 | -460.1692 | -116.8406 |
| 0.0000 | | | | | |
| Beam 28: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -306.5116 | -445.8770 | -111.4106 |
| 0.0000 | | | | | |
| Beam 28: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -306.2043 | -487.4077 | -145.0874 |
| 0.0000 | | | | | |
| Beam 28: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -285.5791 | -439.7673 | -126.9874 |
| 0.0000 | | | | | |
| Beam 28: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -305.9703 | -482.9313 | -134.2950 |
| 0.0000 | | | | | |
| Beam 28: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -285.3452 | -435.2908 | -116.1950 |
| 0.0000 | | | | | |
| Beam 28: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -413.5050 | -603.7606 | -133.5432 |
| 0.0000 | | | | | |
| Beam 28: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -349.3359 | -513.1237 | -153.2141 |
| 0.0000 | | | | | |
| Beam 28: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -387.3854 | -690.2963 | -171.2272 |
| 0.0000 | | | | | |
| Beam 28: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -392.3590 | -566.8808 | -119.3687 |
| 0.0000 | | | | | |
| Beam 28: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -328.8282 | -475.7151 | -137.9933 |
| 0.0000 | | | | | |
| Beam 28: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -372.0573 | -652.0153 | -155.4885 |
| 0.0000 | | | | | |
| Beam 28: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -382.9181 | -673.1657 | -180.3660 |
| 0.0000 | | | | | |
| Beam 28: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -363.3588 | -625.6448 | -161.3464 |
| 0.0000 | | | | | |
| Beam 28: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -226.2171 | -309.0168 | -100.4023 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 28: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -358.8772 | -612.4605 | -157.6284 | |
| 0.0000 | | | | | | |
| Beam 28: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -343.2298 | -574.4438 | -142.4128 | |
| 0.0000 | | | | | | |
| Beam 28: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 595.9297 | 1074.5478 | 317.2085 | |
| 0.0000 | | | | | | |
| Beam 28: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 595.9297 | 1074.5478 | 317.2085 | |
| 0.0000 | | | | | | |
| Beam 28: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 317.3109 | 496.9780 | 156.7501 | |
| 0.0000 | | | | | | |
| Beam 28: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 413.5050 | 690.2963 | 180.3660 | |
| 0.0000 | | | | | | |
| Beam 28: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 358.8772 | 612.4605 | 157.6284 | |
| 0.0000 | | | | | | |
| Beam 28: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 226.2171 | 309.0168 | 100.4023 | |
| 0.0000 | | | | | | |
| Beam 29: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | -166.8511 | -24.7252 | 0.0000 |
| Beam 29: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -57.8236 | 4.5287 | 0.0000 |
| Beam 29: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -6.4393 | -6.2634 | 0.0000 |
| Beam 29: End 1: 4: SPTDX | 0.0000 | 0.0000 | -23.6179 | 35.0038 | 2.2072 | 0.0000 |
| Beam 29: End 1: 5: SPTW | 0.0000 | 0.0000 | 66.5234 | 45.2828 | -57.5106 | 0.0000 |
| Beam 29: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -169.0418 | -95.7180 | 0.0000 |
| Beam 29: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -137.6525 | -77.9441 | 0.0000 |
| Beam 29: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -6.9477 | -6.8328 | 0.0000 |
| Beam 29: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -21.3859 | 27.6423 | 3.5426 | 0.0000 |
| Beam 29: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -5.6812 | -5.5871 | 0.0000 |
| Beam 29: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -17.4956 | 22.6131 | 2.8951 | 0.0000 |
| Beam 29: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -17.4173 | -17.9723 | 0.0000 |
| Beam 29: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -16.7836 | -17.3185 | 0.0000 |
| Beam 29: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 29: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 58.1133 | 7.5707 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 29: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -43.3913 | -5.6528 | 0.0000 | |
| Beam 29: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -21.3918 | 45.2878 | 0.0000 | |
| Beam 29: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 19.6863 | -29.6394 | -23.1060 | 0.0000 | |
| Beam 29: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -15.9827 | -9.0500 | 0.0000 | |
| Beam 29: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -7.3962 | -7.2211 | 0.0000 | |
| Beam 29: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -26.4299 | 33.8455 | 3.0160 | 0.0000 | |
| Beam 29: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -421.1259 | -518.5770 | -262.9113 | 0.0000 | |
| Beam 29: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -558.0710 | -637.6889 | -214.0669 | 0.0000 | |
| Beam 29: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -403.3642 | -492.6539 | -273.1324 | 0.0000 | |
| Beam 29: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -396.6490 | -504.9818 | -285.2322 | 0.0000 | |
| Beam 29: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -466.5604 | -517.5450 | -231.9259 | 0.0000 | |
| Beam 29: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -262.6625 | -222.3648 | -119.6088 | 0.0000 | |
| Beam 29: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -431.6159 | -557.2838 | -292.0458 | 0.0000 | |
| Beam 29: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -161.4021 | -147.3064 | -113.9918 | 0.0000 | |
| Beam 29: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -412.3951 | -479.4943 | -259.1420 | 0.0000 | |
| Beam 29: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -528.3200 | -519.4377 | -254.7603 | 0.0000 | |
| Beam 29: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -516.2047 | -602.4464 | -272.3655 | 0.0000 | |
| Beam 29: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -399.6481 | -428.1064 | -249.6534 | 0.0000 | |
| Beam 29: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -393.3436 | -470.3072 | -234.3849 | 0.0000 | |
| Beam 29: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -529.2819 | -591.2555 | -187.3467 | 0.0000 | |
| Beam 29: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -374.5751 | -446.2204 | -246.4122 | 0.0000 | |
| Beam 29: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -368.8666 | -456.7120 | -256.7058 | 0.0000 | |
| Beam 29: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -438.7780 | -469.2752 | -203.3994 | 0.0000 | |
| Beam 29: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -263.6693 | -220.5284 | -117.8026 | 0.0000 | |
| Beam 29: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -403.8336 | -509.0139 | -263.5194 | 0.0000 | |
| Beam 29: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -162.4089 | -145.4700 | -112.1856 | 0.0000 | |
| Beam 29: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -384.0342 | -432.1433 | -231.5637 | 0.0000 | |
| Beam 29: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -493.3114 | -481.2154 | -229.9270 | 0.0000 | |
| Beam 29: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -487.6424 | -555.4627 | -245.1484 | 0.0000 | |
| Beam 29: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -371.0859 | -381.1227 | -222.4363 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 29: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -404.8890 | -491.8949 | -271.7282 | 0.0000 |
| Beam 29: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -376.5281 | -444.5439 | -244.1499 | 0.0000 |
| Beam 29: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -268.5332 | -262.5455 | -138.1111 | 0.0000 |
| Beam 29: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -262.3456 | -252.9559 | -132.6811 | 0.0000 |
| Beam 29: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -277.5119 | -244.5084 | -102.1362 | 0.0000 |
| Beam 29: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -271.3243 | -234.9188 | -96.7062 | 0.0000 |
| Beam 29: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -271.0314 | -276.6776 | -130.3831 | 0.0000 |
| Beam 29: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -250.4063 | -244.7123 | -112.2831 | 0.0000 |
| Beam 29: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -273.7251 | -271.2665 | -119.5906 | 0.0000 |
| Beam 29: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -253.0999 | -239.3012 | -101.4906 | 0.0000 |
| Beam 29: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -264.7011 | -255.8876 | -134.1764 | 0.0000 |
| Beam 29: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -258.5136 | -246.2980 | -128.7464 | 0.0000 |
| Beam 29: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -273.6798 | -237.8505 | -98.2016 | 0.0000 |
| Beam 29: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -267.4923 | -228.2609 | -92.7716 | 0.0000 |
| Beam 29: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -267.1994 | -270.0197 | -126.4484 | 0.0000 |
| Beam 29: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -246.5742 | -238.0544 | -108.3484 | 0.0000 |
| Beam 29: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -269.8930 | -264.6086 | -115.6560 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 29: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -249.2678 | -232.6433 | -97.5560 |
| Beam 29: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -367.3189 | -307.5529 | -114.9042 |
| Beam 29: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -303.1498 | -265.6846 | -134.5751 |
| Beam 29: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -356.9498 | -407.9264 | -152.5882 |
| Beam 29: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -348.2401 | -285.9585 | -100.7297 |
| Beam 29: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -284.7093 | -243.0762 | -119.3543 |
| Beam 29: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -341.6216 | -381.2948 | -136.8495 |
| Beam 29: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -352.4824 | -394.1910 | -161.7270 |
| Beam 29: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -332.9232 | -361.5351 | -142.7074 |
| Beam 29: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -191.4006 | -150.8275 | -81.7633 |
| Beam 29: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -328.4415 | -351.7569 | -138.9894 |
| Beam 29: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -312.7942 | -325.6322 | -123.7738 |
| Beam 29: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 558.0710 | 637.6889 | 292.0458 |
| Beam 29: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 558.0710 | 637.6889 | 292.0458 |
| Beam 29: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 277.5119 | 276.6776 | 138.1111 |
| Beam 29: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 367.3189 | 407.9264 | 161.7270 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 29: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 328.4415 | 351.7569 | 138.9894 | |
| 0.0000 | | | | | | |
| Beam 29: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 191.4006 | 150.8275 | 81.7633 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | -232.7189 | -34.0938 | 0.0000 |
| Beam 29: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -82.7636 | 4.5287 | 0.0000 |
| Beam 29: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -5.1364 | -6.2634 | 0.0000 |
| Beam 29: End 2: 4: SPTDX | 0.0000 | 0.0000 | -34.3521 | 23.9485 | 2.2072 | 0.0000 |
| Beam 29: End 2: 5: SPTW | 0.0000 | 0.0000 | 60.7552 | 69.6392 | -57.5106 | 0.0000 |
| Beam 29: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -210.7073 | -95.7180 | 0.0000 |
| Beam 29: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -171.5811 | -77.9441 | 0.0000 |
| Beam 29: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -5.4931 | -6.8328 | 0.0000 |
| Beam 29: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -28.5293 | 18.1085 | 3.5426 | 0.0000 |
| Beam 29: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -4.4918 | -5.5871 | 0.0000 |
| Beam 29: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -23.3402 | 14.8135 | 2.8951 | 0.0000 |
| Beam 29: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -13.2280 | -17.9723 | 0.0000 |
| Beam 29: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -12.7468 | -17.3185 | 0.0000 |
| Beam 29: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 29: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 72.9549 | 7.5707 | 0.0000 |
| Beam 29: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -54.4730 | -5.6528 | 0.0000 |
| Beam 29: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -41.6922 | 45.2878 | 0.0000 |
| Beam 29: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 21.7987 | -21.7157 | -23.1060 | 0.0000 |
| Beam 29: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -19.9221 | -9.0500 | 0.0000 |
| Beam 29: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -5.8820 | -7.2211 | 0.0000 |
| Beam 29: End 2: 21: SPSDX | 0.0000 | 0.0000 | -35.5597 | 22.0054 | 3.0160 | 0.0000 |
| Beam 29: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -437.6283 | -682.5358 | -275.5588 | 0.0000 |
| Beam 29: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -574.5734 | -853.9607 | -226.7145 | 0.0000 |
| Beam 29: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -421.8855 | -650.1972 | -285.7800 | 0.0000 |
| Beam 29: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -415.1703 | -659.9599 | -297.8797 | 0.0000 |
| Beam 29: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -488.8386 | -699.9408 | -244.5734 | 0.0000 |
| Beam 29: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -284.9407 | -326.8717 | -132.2563 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 29: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -450.1372 | -725.6192 | -304.6934 | 0.0000 |
| Beam 29: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -179.9234 | -212.4202 | -123.3603 | 0.0000 |
| Beam 29: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -430.9164 | -640.4874 | -271.7896 | 0.0000 |
| Beam 29: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -560.9562 | -727.4041 | -267.4078 | 0.0000 |
| Beam 29: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -538.4829 | -803.8063 | -285.0130 | 0.0000 |
| Beam 29: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -421.9263 | -584.9418 | -262.3009 | 0.0000 |
| Beam 29: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -409.8460 | -623.6531 | -247.0324 | 0.0000 |
| Beam 29: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -545.7843 | -796.5299 | -199.9942 | 0.0000 |
| Beam 29: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -393.0964 | -592.7663 | -259.0598 | 0.0000 |
| Beam 29: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -387.3879 | -601.0772 | -269.3533 | 0.0000 |
| Beam 29: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -461.0563 | -641.0582 | -216.0470 | 0.0000 |
| Beam 29: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -285.9475 | -325.4198 | -130.4501 | 0.0000 |
| Beam 29: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -422.3549 | -666.7365 | -276.1669 | 0.0000 |
| Beam 29: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -180.9302 | -210.9684 | -121.5541 | 0.0000 |
| Beam 29: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -402.5555 | -582.3025 | -244.2113 | 0.0000 |
| Beam 29: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -524.0643 | -675.4488 | -242.5745 | 0.0000 |
| Beam 29: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -509.9207 | -745.9118 | -257.7960 | 0.0000 |
| Beam 29: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -393.3641 | -527.0473 | -235.0839 | 0.0000 |
| Beam 29: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -423.4103 | -650.0206 | -284.3757 | 0.0000 |
| Beam 29: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -395.0494 | -591.8358 | -256.7974 | 0.0000 |
| Beam 29: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -292.0529 | -369.5542 | -147.4796 | 0.0000 |
| Beam 29: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -285.8654 | -357.6010 | -142.0496 | 0.0000 |
| Beam 29: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -296.1267 | -354.0102 | -111.5048 | 0.0000 |
| Beam 29: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -289.9392 | -342.0569 | -106.0748 | 0.0000 |
| Beam 29: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -289.6391 | -383.7024 | -139.7516 | 0.0000 |

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| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 29: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -269.0139 | -343.8583 | -121.6516 |
| 0.0000 | | | | | |
| Beam 29: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -290.8612 | -379.0392 | -128.9592 |
| 0.0000 | | | | | |
| Beam 29: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -270.2360 | -339.1951 | -110.8592 |
| 0.0000 | | | | | |
| Beam 29: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -288.2209 | -361.4324 | -143.5449 |
| 0.0000 | | | | | |
| Beam 29: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -282.0333 | -349.4792 | -138.1149 |
| 0.0000 | | | | | |
| Beam 29: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -292.2947 | -345.8884 | -107.5701 |
| 0.0000 | | | | | |
| Beam 29: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -286.1071 | -333.9352 | -102.1401 |
| 0.0000 | | | | | |
| Beam 29: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -285.8070 | -375.5807 | -135.8170 |
| 0.0000 | | | | | |
| Beam 29: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -265.1818 | -335.7366 | -117.7170 |
| 0.0000 | | | | | |
| Beam 29: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -287.0291 | -370.9175 | -125.0245 |
| 0.0000 | | | | | |
| Beam 29: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -266.4040 | -331.0734 | -106.9245 |
| 0.0000 | | | | | |
| Beam 29: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -389.5360 | -452.0490 | -124.2728 |
| 0.0000 | | | | | |
| Beam 29: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -325.3669 | -385.6680 | -143.9437 |
| 0.0000 | | | | | |
| Beam 29: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -371.3053 | -546.9633 | -161.9568 |
| 0.0000 | | | | | |
| Beam 29: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -369.4182 | -422.9680 | -110.0982 |
| 0.0000 | | | | | |
| Beam 29: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -305.8874 | -355.8170 | -128.7229 |
| 0.0000 | | | | | |

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| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



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| Beam 29: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -355.9771 | -514.4763 | -146.2181 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -366.8380 | -531.5214 | -171.0955 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -347.2787 | -491.3939 | -152.0760 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -207.9030 | -227.0312 | -91.1319 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -342.7971 | -479.9036 | -148.3580 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -327.1497 | -447.8016 | -133.1424 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 574.5734 | 853.9607 | 304.6934 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 574.5734 | 853.9607 | 304.6934 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 296.1267 | 383.7024 | 147.4796 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 389.5360 | 546.9633 | 171.0955 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 342.7971 | 479.9036 | 148.3580 | |
| 0.0000 | | | | | | |
| Beam 29: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 207.9030 | 227.0312 | 91.1319 | |
| 0.0000 | | | | | | |
| Beam 30: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | -103.0524 | -15.6510 | 0.0000 |
| Beam 30: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -33.6671 | 4.5287 | 0.0000 |
| Beam 30: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -7.7014 | -6.2634 | 0.0000 |
| Beam 30: End 1: 4: SPTDX | 0.0000 | 0.0000 | -13.7574 | 41.9011 | 2.2072 | 0.0000 |
| Beam 30: End 1: 5: SPTW | 0.0000 | 0.0000 | 70.7173 | 19.8507 | -57.5106 | 0.0000 |
| Beam 30: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -128.6852 | -95.7180 | 0.0000 |
| Beam 30: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -104.7897 | -77.9441 | 0.0000 |
| Beam 30: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -8.3566 | -6.8328 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 30: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -14.4669 | 34.2750 | 3.5426 | 0.0000 |
| Beam 30: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -6.8332 | -5.5871 | 0.0000 |
| Beam 30: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -11.8346 | 28.0392 | 2.8951 | 0.0000 |
| Beam 30: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -21.4749 | -17.9723 | 0.0000 |
| Beam 30: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -20.6936 | -17.3185 | 0.0000 |
| Beam 30: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 30: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 43.7380 | 7.5707 | 0.0000 |
| Beam 30: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -32.6577 | -5.6528 | 0.0000 |
| Beam 30: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -1.7292 | 45.2878 | 0.0000 |
| Beam 30: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 17.6402 | -36.5448 | -23.1060 | 0.0000 |
| Beam 30: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -12.1670 | -9.0500 | 0.0000 |
| Beam 30: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -8.8629 | -7.2211 | 0.0000 |
| Beam 30: End 1: 21: SPSDX | 0.0000 | 0.0000 | -17.5869 | 41.9886 | 3.0160 | 0.0000 |
| Beam 30: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -407.0715 | -365.4201 | -250.6610 | 0.0000 |
| Beam 30: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -544.0166 | -433.8623 | -201.8167 | 0.0000 |
| Beam 30: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -387.8419 | -346.3553 | -260.8822 | 0.0000 |
| Beam 30: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -381.1266 | -361.1679 | -272.9819 | 0.0000 |
| Beam 30: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -447.5869 | -348.5083 | -219.6756 | 0.0000 |
| Beam 30: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -243.6890 | -128.7703 | -107.3585 | 0.0000 |
| Beam 30: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -416.0936 | -400.5321 | -279.7956 | 0.0000 |
| Beam 30: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -145.8798 | -90.5338 | -104.9175 | 0.0000 |
| Beam 30: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -396.8728 | -329.8543 | -246.8918 | 0.0000 |
| Beam 30: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -499.3140 | -329.4060 | -242.5100 | 0.0000 |
| Beam 30: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -497.2312 | -415.0413 | -260.1152 | 0.0000 |
| Beam 30: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -380.6746 | -283.8273 | -237.4031 | 0.0000 |
| Beam 30: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -379.2892 | -327.4298 | -222.1346 | 0.0000 |
| Beam 30: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -515.2275 | -398.0809 | -175.0964 | 0.0000 |
| Beam 30: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -359.0528 | -310.5739 | -234.1620 | 0.0000 |
| Beam 30: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -353.3443 | -323.1775 | -244.4555 | 0.0000 |
| Beam 30: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -419.8045 | -310.5179 | -191.1492 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 30: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -244.6958 | -126.5614 | -105.5523 | 0.0000 |
| Beam 30: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -388.3113 | -362.5417 | -251.2692 | 0.0000 |
| Beam 30: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -146.8866 | -88.3249 | -103.1113 | 0.0000 |
| Beam 30: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -368.5119 | -292.9969 | -219.3135 | 0.0000 |
| Beam 30: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -466.1294 | -303.7994 | -217.6767 | 0.0000 |
| Beam 30: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -468.6689 | -378.6256 | -232.8982 | 0.0000 |
| Beam 30: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -352.1124 | -247.4116 | -210.1861 | 0.0000 |
| Beam 30: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -389.3667 | -345.0321 | -259.4779 | 0.0000 |
| Beam 30: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -361.0058 | -308.1747 | -231.8997 | 0.0000 |
| Beam 30: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -247.6818 | -167.1054 | -129.0368 | 0.0000 |
| Beam 30: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -241.4943 | -159.8052 | -123.6068 | 0.0000 |
| Beam 30: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -261.4113 | -144.8673 | -93.0620 | 0.0000 |
| Beam 30: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -255.2238 | -137.5671 | -87.6320 | 0.0000 |
| Beam 30: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -254.9379 | -179.4329 | -121.3088 | 0.0000 |
| Beam 30: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -234.3127 | -155.0989 | -103.2088 | 0.0000 |
| Beam 30: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -259.0568 | -172.7615 | -110.5164 | 0.0000 |
| Beam 30: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -238.4316 | -148.4275 | -92.4164 | 0.0000 |
| Beam 30: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -243.8498 | -161.8653 | -125.1021 | 0.0000 |
| Beam 30: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -237.6622 | -154.5651 | -119.6721 | 0.0000 |
| Beam 30: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -257.5793 | -139.6273 | -89.1273 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 30: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -251.3917 | -132.3271 | -83.6973 |
| Beam 30: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -251.1059 | -174.1929 | -117.3742 |
| Beam 30: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -230.4807 | -149.8589 | -99.2742 |
| Beam 30: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -255.2247 | -167.5215 | -106.5817 |
| Beam 30: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -234.5995 | -143.1875 | -88.4817 |
| Beam 30: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -347.7293 | -175.3287 | -105.8300 |
| Beam 30: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -283.5601 | -157.2029 | -125.5009 |
| Beam 30: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -344.8674 | -278.1465 | -143.5140 |
| Beam 30: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -329.6568 | -160.6072 | -91.6554 |
| Beam 30: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -266.1261 | -141.2313 | -110.2801 |
| Beam 30: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -329.5392 | -257.1863 | -127.7753 |
| Beam 30: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -340.4000 | -266.0640 | -152.6527 |
| Beam 30: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -320.8408 | -240.6451 | -133.6332 |
| Beam 30: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -177.3461 | -82.6690 | -72.6891 |
| Beam 30: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -316.3592 | -232.5250 | -129.9152 |
| Beam 30: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -300.7118 | -212.1898 | -114.6996 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 30: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 544.0166 | 433.8623 | 279.7956 | |
| 0.0000 | | | | | | |
| Beam 30: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 544.0166 | 433.8623 | 279.7956 | |
| 0.0000 | | | | | | |
| Beam 30: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 261.4113 | 179.4329 | 129.0368 | |
| 0.0000 | | | | | | |
| Beam 30: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 347.7293 | 278.1465 | 152.6527 | |
| 0.0000 | | | | | | |
| Beam 30: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 316.3592 | 232.5250 | 129.9152 | |
| 0.0000 | | | | | | |
| Beam 30: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 177.3461 | 82.6690 | 72.6891 | |
| 0.0000 | | | | | | |
| Beam 30: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | -166.8511 | -24.7252 | 0.0000 |
| Beam 30: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -57.8236 | 4.5287 | 0.0000 |
| Beam 30: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -6.4393 | -6.2634 | 0.0000 |
| Beam 30: End 2: 4: SPTDX | 0.0000 | 0.0000 | -23.6179 | 35.0038 | 2.2072 | 0.0000 |
| Beam 30: End 2: 5: SPTW | 0.0000 | 0.0000 | 66.5234 | 45.2828 | -57.5106 | 0.0000 |
| Beam 30: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -169.0418 | -95.7180 | 0.0000 |
| Beam 30: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -137.6525 | -77.9441 | 0.0000 |
| Beam 30: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -6.9477 | -6.8328 | 0.0000 |
| Beam 30: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -21.3859 | 27.6423 | 3.5426 | 0.0000 |
| Beam 30: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -5.6812 | -5.5871 | 0.0000 |
| Beam 30: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -17.4956 | 22.6131 | 2.8951 | 0.0000 |
| Beam 30: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -17.4173 | -17.9723 | 0.0000 |
| Beam 30: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -16.7836 | -17.3185 | 0.0000 |
| Beam 30: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 30: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 58.1133 | 7.5707 | 0.0000 |
| Beam 30: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -43.3913 | -5.6528 | 0.0000 |
| Beam 30: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -21.3918 | 45.2878 | 0.0000 |
| Beam 30: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 19.6863 | -29.6394 | -23.1060 | 0.0000 |
| Beam 30: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -15.9827 | -9.0500 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 30: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -7.3962 | -7.2211 | 0.0000 | |
| Beam 30: End 2: 21: SPSPDX | 0.0000 | 0.0000 | -26.4299 | 33.8455 | 3.0160 | 0.0000 | |
| Beam 30: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -421.1259 | -518.5770 | -262.9113 | 0.0000 | |
| Beam 30: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -558.0710 | -637.6889 | -214.0669 | 0.0000 | |
| Beam 30: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -403.3642 | -492.6539 | -273.1324 | 0.0000 | |
| Beam 30: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -396.6490 | -504.9818 | -285.2322 | 0.0000 | |
| Beam 30: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -466.5604 | -517.5450 | -231.9259 | 0.0000 | |
| Beam 30: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -262.6625 | -222.3648 | -119.6088 | 0.0000 | |
| Beam 30: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -431.6159 | -557.2838 | -292.0458 | 0.0000 | |
| Beam 30: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -161.4021 | -147.3064 | -113.9918 | 0.0000 | |
| Beam 30: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -412.3951 | -479.4943 | -259.1420 | 0.0000 | |
| Beam 30: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -528.3200 | -519.4377 | -254.7603 | 0.0000 | |
| Beam 30: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -516.2047 | -602.4464 | -272.3655 | 0.0000 | |
| Beam 30: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -399.6481 | -428.1064 | -249.6534 | 0.0000 | |
| Beam 30: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -393.3436 | -470.3072 | -234.3849 | 0.0000 | |
| Beam 30: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -529.2819 | -591.2555 | -187.3467 | 0.0000 | |
| Beam 30: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -374.5751 | -446.2204 | -246.4122 | 0.0000 | |
| Beam 30: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -368.8666 | -456.7120 | -256.7058 | 0.0000 | |
| Beam 30: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -438.7780 | -469.2752 | -203.3994 | 0.0000 | |
| Beam 30: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -263.6693 | -220.5284 | -117.8026 | 0.0000 | |
| Beam 30: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -403.8336 | -509.0139 | -263.5194 | 0.0000 | |
| Beam 30: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -162.4089 | -145.4700 | -112.1856 | 0.0000 | |
| Beam 30: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -384.0342 | -432.1433 | -231.5637 | 0.0000 | |
| Beam 30: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -493.3114 | -481.2154 | -229.9270 | 0.0000 | |
| Beam 30: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -487.6424 | -555.4627 | -245.1484 | 0.0000 | |
| Beam 30: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -371.0859 | -381.1227 | -222.4363 | 0.0000 | |
| Beam 30: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -404.8890 | -491.8949 | -271.7282 | 0.0000 | |
| Beam 30: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -376.5281 | -444.5439 | -244.1499 | 0.0000 | |
| Beam 30: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -268.5332 | -262.5455 | -138.1111 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|-----------|
| Beam 30: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -262.3456 | -252.9559 | -132.6811 |
| 0.0000 | | | | | |
| Beam 30: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -277.5119 | -244.5084 | -102.1362 |
| 0.0000 | | | | | |
| Beam 30: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -271.3243 | -234.9188 | -96.7062 |
| 0.0000 | | | | | |
| Beam 30: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -271.0314 | -276.6776 | -130.3831 |
| 0.0000 | | | | | |
| Beam 30: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -250.4063 | -244.7123 | -112.2831 |
| 0.0000 | | | | | |
| Beam 30: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -273.7251 | -271.2665 | -119.5906 |
| 0.0000 | | | | | |
| Beam 30: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -253.0999 | -239.3012 | -101.4906 |
| 0.0000 | | | | | |
| Beam 30: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -264.7011 | -255.8876 | -134.1764 |
| 0.0000 | | | | | |
| Beam 30: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -258.5136 | -246.2980 | -128.7464 |
| 0.0000 | | | | | |
| Beam 30: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -273.6798 | -237.8505 | -98.2016 |
| 0.0000 | | | | | |
| Beam 30: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -267.4923 | -228.2609 | -92.7716 |
| 0.0000 | | | | | |
| Beam 30: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -267.1994 | -270.0197 | -126.4484 |
| 0.0000 | | | | | |
| Beam 30: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -246.5742 | -238.0544 | -108.3484 |
| 0.0000 | | | | | |
| Beam 30: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -269.8930 | -264.6086 | -115.6560 |
| 0.0000 | | | | | |
| Beam 30: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -249.2678 | -232.6433 | -97.5560 |
| 0.0000 | | | | | |
| Beam 30: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -367.3189 | -307.5529 | -114.9042 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 30: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -303.1498 | -265.6846 | -134.5751 |
| 0.0000 | | | | | |
| Beam 30: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -356.9498 | -407.9264 | -152.5882 |
| 0.0000 | | | | | |
| Beam 30: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -348.2401 | -285.9585 | -100.7297 |
| 0.0000 | | | | | |
| Beam 30: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -284.7093 | -243.0762 | -119.3543 |
| 0.0000 | | | | | |
| Beam 30: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -341.6216 | -381.2948 | -136.8495 |
| 0.0000 | | | | | |
| Beam 30: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -352.4824 | -394.1910 | -161.7270 |
| 0.0000 | | | | | |
| Beam 30: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -332.9232 | -361.5351 | -142.7074 |
| 0.0000 | | | | | |
| Beam 30: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -191.4006 | -150.8275 | -81.7633 |
| 0.0000 | | | | | |
| Beam 30: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -328.4415 | -351.7569 | -138.9894 |
| 0.0000 | | | | | |
| Beam 30: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -312.7942 | -325.6322 | -123.7738 |
| 0.0000 | | | | | |
| Beam 30: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 558.0710 | 637.6889 | 292.0458 |
| 0.0000 | | | | | |
| Beam 30: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 558.0710 | 637.6889 | 292.0458 |
| 0.0000 | | | | | |
| Beam 30: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 277.5119 | 276.6776 | 138.1111 |
| 0.0000 | | | | | |
| Beam 30: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 367.3189 | 407.9264 | 161.7270 |
| 0.0000 | | | | | |
| Beam 30: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 328.4415 | 351.7569 | 138.9894 |
| 0.0000 | | | | | |
| Beam 30: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 191.4006 | 150.8275 | 81.7633 |
| 0.0000 | | | | | |
| Beam 31: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | -37.5294 | -6.3315 |
| | | | | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 31: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -8.8576 | 4.5287 | 0.0000 |
| Beam 31: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -8.9975 | -6.2634 | 0.0000 |
| Beam 31: End 1: 4: SPTDX | 0.0000 | 0.0000 | -4.1814 | 45.2926 | 2.2072 | 0.0000 |
| Beam 31: End 1: 5: SPTW | 0.0000 | 0.0000 | 73.5977 | -7.6147 | -57.5106 | 0.0000 |
| Beam 31: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -87.2379 | -95.7180 | 0.0000 |
| Beam 31: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -71.0387 | -77.9441 | 0.0000 |
| Beam 31: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -9.8036 | -6.8328 | 0.0000 |
| Beam 31: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -7.3609 | 38.4223 | 3.5426 | 0.0000 |
| Beam 31: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -8.0164 | -5.5871 | 0.0000 |
| Beam 31: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -6.0206 | 31.4317 | 2.8951 | 0.0000 |
| Beam 31: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -25.6422 | -17.9723 | 0.0000 |
| Beam 31: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -24.7093 | -17.3185 | 0.0000 |
| Beam 31: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 31: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 28.9742 | 7.5707 | 0.0000 |
| Beam 31: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -21.6341 | -5.6528 | 0.0000 |
| Beam 31: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 18.4649 | 45.2878 | 0.0000 |
| Beam 31: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 15.5388 | -42.8488 | -23.1060 | 0.0000 |
| Beam 31: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -8.2482 | -9.0500 | 0.0000 |
| Beam 31: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -10.3692 | -7.2211 | 0.0000 |
| Beam 31: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -8.5049 | 46.9461 | 3.0160 | 0.0000 |
| Beam 31: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -394.6151 | -213.1620 | -238.0797 | 0.0000 |
| Beam 31: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -531.5602 | -229.5651 | -189.2353 | 0.0000 |
| Beam 31: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -374.3773 | -201.6119 | -248.3009 | 0.0000 |
| Beam 31: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -367.6621 | -218.9762 | -260.4006 | 0.0000 |
| Beam 31: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -430.7707 | -181.7045 | -207.0943 | 0.0000 |
| Beam 31: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -226.8729 | -39.4477 | -94.7772 | 0.0000 |
| Beam 31: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -402.6291 | -245.0530 | -267.2143 | 0.0000 |
| Beam 31: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -132.4153 | -37.7360 | -95.5980 | 0.0000 |
| Beam 31: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -383.4082 | -181.6792 | -234.3105 | 0.0000 |
| Beam 31: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -472.1941 | -144.9036 | -229.9287 | 0.0000 |

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| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 31: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -480.4150 | -229.3727 | -247.5339 | 0.0000 |
| Beam 31: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -363.8585 | -142.4501 | -224.8218 | 0.0000 |
| Beam 31: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -366.8328 | -185.7289 | -209.5533 | 0.0000 |
| Beam 31: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -502.7711 | -204.7235 | -162.5151 | 0.0000 |
| Beam 31: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -345.5882 | -176.7703 | -221.5807 | 0.0000 |
| Beam 31: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -339.8798 | -191.5432 | -231.8742 | 0.0000 |
| Beam 31: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -402.9884 | -154.2714 | -178.5679 | 0.0000 |
| Beam 31: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -227.8796 | -36.8562 | -92.9710 | 0.0000 |
| Beam 31: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -374.8467 | -217.6199 | -238.6878 | 0.0000 |
| Beam 31: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -133.4221 | -35.1445 | -93.7918 | 0.0000 |
| Beam 31: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -355.0473 | -155.5989 | -206.7322 | 0.0000 |
| Beam 31: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -440.8830 | -131.5512 | -205.0954 | 0.0000 |
| Beam 31: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -451.8528 | -203.8106 | -220.3169 | 0.0000 |
| Beam 31: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -335.2962 | -116.8881 | -197.6048 | 0.0000 |
| Beam 31: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -375.9021 | -199.7093 | -246.8966 | 0.0000 |
| Beam 31: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -347.5413 | -173.6290 | -219.3183 | 0.0000 |
| Beam 31: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -228.2448 | -76.7416 | -119.7173 | 0.0000 |
| Beam 31: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -222.0573 | -71.7927 | -114.2873 | 0.0000 |
| Beam 31: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -246.8535 | -48.3593 | -83.7425 | 0.0000 |
| Beam 31: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -240.6660 | -43.4104 | -78.3125 | 0.0000 |
| Beam 31: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -240.3873 | -85.3835 | -111.9893 | 0.0000 |
| Beam 31: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -219.7622 | -68.8870 | -93.8893 | 0.0000 |
| Beam 31: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -245.9700 | -76.8688 | -101.1969 | 0.0000 |

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| Beam 31: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -225.3448 | -60.3723 | -83.0969 |
| Beam 31: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -224.4128 | -72.9578 | -115.7826 |
| Beam 31: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -218.2252 | -68.0088 | -110.3526 |
| Beam 31: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -243.0215 | -44.5754 | -79.8078 |
| Beam 31: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -236.8339 | -39.6265 | -74.3778 |
| Beam 31: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -236.5553 | -81.5996 | -108.0547 |
| Beam 31: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -215.9301 | -65.1032 | -89.9547 |
| Beam 31: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -242.1379 | -73.0849 | -97.2622 |
| Beam 31: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -221.5127 | -56.5885 | -79.1622 |
| Beam 31: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -329.5881 | -46.7007 | -96.5105 |
| Beam 31: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -265.4189 | -52.9592 | -116.1814 |
| Beam 31: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -334.3262 | -149.1586 | -134.1945 |
| Beam 31: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -312.5492 | -38.6504 | -82.3359 |
| Beam 31: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -249.0185 | -43.4162 | -100.9606 |
| Beam 31: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -318.9980 | -134.0231 | -118.4558 |
| Beam 31: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -329.8588 | -138.7738 | -143.3332 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|---|--------|--------|-----------|-----------|-----------|--------|
| Beam 31: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -310.2996 | -120.7873 | -124.3137 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -164.8897 | -17.7066 | -63.3696 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -305.8180 | -114.3703 | -120.5957 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -290.1706 | -99.9811 | -105.3801 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 531.5602 | 245.0530 | 267.2143 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 531.5602 | 245.0530 | 267.2143 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 246.8535 | 85.3835 | 119.7173 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 334.3262 | 149.1586 | 143.3332 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 305.8180 | 114.3703 | 120.5957 | |
| 0.0000 | | | | | | |
| Beam 31: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 164.8897 | 17.7066 | 63.3696 | |
| 0.0000 | | | | | | |
| Beam 31: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | -103.0524 | -15.6510 | 0.0000 |
| Beam 31: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -33.6671 | 4.5287 | 0.0000 |
| Beam 31: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -7.7014 | -6.2634 | 0.0000 |
| Beam 31: End 2: 4: SPTDX | 0.0000 | 0.0000 | -13.7574 | 41.9011 | 2.2072 | 0.0000 |
| Beam 31: End 2: 5: SPTW | 0.0000 | 0.0000 | 70.7173 | 19.8507 | -57.5106 | 0.0000 |
| Beam 31: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -128.6852 | -95.7180 | 0.0000 |
| Beam 31: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -104.7897 | -77.9441 | 0.0000 |
| Beam 31: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -8.3566 | -6.8328 | 0.0000 |
| Beam 31: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -14.4669 | 34.2750 | 3.5426 | 0.0000 |
| Beam 31: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -6.8332 | -5.5871 | 0.0000 |
| Beam 31: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -11.8346 | 28.0392 | 2.8951 | 0.0000 |
| Beam 31: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -21.4749 | -17.9723 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|--------|--|
| Beam 31: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -20.6936 | -17.3185 | 0.0000 | |
| Beam 31: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 31: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 43.7380 | 7.5707 | 0.0000 | |
| Beam 31: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -32.6577 | -5.6528 | 0.0000 | |
| Beam 31: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | -1.7292 | 45.2878 | 0.0000 | |
| Beam 31: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 17.6402 | -36.5448 | -23.1060 | 0.0000 | |
| Beam 31: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -12.1670 | -9.0500 | 0.0000 | |
| Beam 31: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -8.8629 | -7.2211 | 0.0000 | |
| Beam 31: End 2: 21: SPSDX | 0.0000 | 0.0000 | -17.5869 | 41.9886 | 3.0160 | 0.0000 | |
| Beam 31: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -407.0715 | -365.4201 | -250.6610 | 0.0000 | |
| Beam 31: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -544.0166 | -433.8623 | -201.8167 | 0.0000 | |
| Beam 31: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -387.8419 | -346.3553 | -260.8822 | 0.0000 | |
| Beam 31: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -381.1266 | -361.1679 | -272.9819 | 0.0000 | |
| Beam 31: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -447.5869 | -348.5083 | -219.6756 | 0.0000 | |
| Beam 31: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -243.6890 | -128.7703 | -107.3585 | 0.0000 | |
| Beam 31: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -416.0936 | -400.5321 | -279.7956 | 0.0000 | |
| Beam 31: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -145.8798 | -90.5338 | -104.9175 | 0.0000 | |
| Beam 31: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -396.8728 | -329.8543 | -246.8918 | 0.0000 | |
| Beam 31: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -499.3140 | -329.4060 | -242.5100 | 0.0000 | |
| Beam 31: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -497.2312 | -415.0413 | -260.1152 | 0.0000 | |
| Beam 31: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -380.6746 | -283.8273 | -237.4031 | 0.0000 | |
| Beam 31: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -379.2892 | -327.4298 | -222.1346 | 0.0000 | |
| Beam 31: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -515.2275 | -398.0809 | -175.0964 | 0.0000 | |
| Beam 31: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -359.0528 | -310.5739 | -234.1620 | 0.0000 | |
| Beam 31: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -353.3443 | -323.1775 | -244.4555 | 0.0000 | |
| Beam 31: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -419.8045 | -310.5179 | -191.1492 | 0.0000 | |
| Beam 31: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -244.6958 | -126.5614 | -105.5523 | 0.0000 | |
| Beam 31: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -388.3113 | -362.5417 | -251.2692 | 0.0000 | |
| Beam 31: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -146.8866 | -88.3249 | -103.1113 | 0.0000 | |
| Beam 31: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -368.5119 | -292.9969 | -219.3135 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto | Lotto | Codifica | |
| | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 31: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -466.1294 | -303.7994 | -217.6767 | 0.0000 |
| Beam 31: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -468.6689 | -378.6256 | -232.8982 | 0.0000 |
| Beam 31: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -352.1124 | -247.4116 | -210.1861 | 0.0000 |
| Beam 31: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -389.3667 | -345.0321 | -259.4779 | 0.0000 |
| Beam 31: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -361.0058 | -308.1747 | -231.8997 | 0.0000 |
| Beam 31: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -247.6818 | -167.1054 | -129.0368 | 0.0000 |
| Beam 31: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -241.4943 | -159.8052 | -123.6068 | 0.0000 |
| Beam 31: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -261.4113 | -144.8673 | -93.0620 | 0.0000 |
| Beam 31: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -255.2238 | -137.5671 | -87.6320 | 0.0000 |
| Beam 31: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -254.9379 | -179.4329 | -121.3088 | 0.0000 |
| Beam 31: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -234.3127 | -155.0989 | -103.2088 | 0.0000 |
| Beam 31: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -259.0568 | -172.7615 | -110.5164 | 0.0000 |
| Beam 31: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -238.4316 | -148.4275 | -92.4164 | 0.0000 |
| Beam 31: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -243.8498 | -161.8653 | -125.1021 | 0.0000 |
| Beam 31: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -237.6622 | -154.5651 | -119.6721 | 0.0000 |
| Beam 31: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -257.5793 | -139.6273 | -89.1273 | 0.0000 |
| Beam 31: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -251.3917 | -132.3271 | -83.6973 | 0.0000 |
| Beam 31: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -251.1059 | -174.1929 | -117.3742 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|-----------|-----------|
| Beam 31: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -230.4807 | -149.8589 | -99.2742 |
| 0.0000 | | | | | |
| Beam 31: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -255.2247 | -167.5215 | -106.5817 |
| 0.0000 | | | | | |
| Beam 31: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -234.5995 | -143.1875 | -88.4817 |
| 0.0000 | | | | | |
| Beam 31: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -347.7293 | -175.3287 | -105.8300 |
| 0.0000 | | | | | |
| Beam 31: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -283.5601 | -157.2029 | -125.5009 |
| 0.0000 | | | | | |
| Beam 31: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -344.8674 | -278.1465 | -143.5140 |
| 0.0000 | | | | | |
| Beam 31: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -329.6568 | -160.6072 | -91.6554 |
| 0.0000 | | | | | |
| Beam 31: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -266.1261 | -141.2313 | -110.2801 |
| 0.0000 | | | | | |
| Beam 31: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -329.5392 | -257.1863 | -127.7753 |
| 0.0000 | | | | | |
| Beam 31: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -340.4000 | -266.0640 | -152.6527 |
| 0.0000 | | | | | |
| Beam 31: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -320.8408 | -240.6451 | -133.6332 |
| 0.0000 | | | | | |
| Beam 31: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -177.3461 | -82.6690 | -72.6891 |
| 0.0000 | | | | | |
| Beam 31: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -316.3592 | -232.5250 | -129.9152 |
| 0.0000 | | | | | |
| Beam 31: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -300.7118 | -212.1898 | -114.6996 |
| 0.0000 | | | | | |
| Beam 31: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 544.0166 | 433.8623 | 279.7956 |
| 0.0000 | | | | | |
| Beam 31: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 544.0166 | 433.8623 | 279.7956 |
| 0.0000 | | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 31: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 261.4113 | 179.4329 | 129.0368 | |
| 0.0000 | | | | | | |
| Beam 31: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 347.7293 | 278.1465 | 152.6527 | |
| 0.0000 | | | | | | |
| Beam 31: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 316.3592 | 232.5250 | 129.9152 | |
| 0.0000 | | | | | | |
| Beam 31: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 177.3461 | 82.6690 | 72.6891 | |
| 0.0000 | | | | | | |
| Beam 32: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | 27.9936 | 2.9880 | 0.0000 |
| Beam 32: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 15.9518 | 4.5287 | 0.0000 |
| Beam 32: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -10.2936 | -6.2634 | 0.0000 |
| Beam 32: End 1: 4: SPTDX | 0.0000 | 0.0000 | 4.8436 | 45.1487 | 2.2072 | 0.0000 |
| Beam 32: End 1: 5: SPTW | 0.0000 | 0.0000 | 75.0417 | -35.9016 | -57.5106 | 0.0000 |
| Beam 32: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -45.7906 | -95.7180 | 0.0000 |
| Beam 32: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -37.2877 | -77.9441 | 0.0000 |
| Beam 32: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -11.2506 | -6.8328 | 0.0000 |
| Beam 32: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -0.2549 | 39.8693 | 3.5426 | 0.0000 |
| Beam 32: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -9.1995 | -5.5871 | 0.0000 |
| Beam 32: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -0.2066 | 32.6148 | 2.8951 | 0.0000 |
| Beam 32: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -29.8095 | -17.9723 | 0.0000 |
| Beam 32: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -28.7249 | -17.3185 | 0.0000 |
| Beam 32: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 32: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 14.2104 | 7.5707 | 0.0000 |
| Beam 32: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -10.6104 | -5.6528 | 0.0000 |
| Beam 32: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 38.6590 | 45.2878 | 0.0000 |
| Beam 32: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 13.4374 | -48.3542 | -23.1060 | 0.0000 |
| Beam 32: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -4.3294 | -9.0500 | 0.0000 |
| Beam 32: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -11.8755 | -7.2211 | 0.0000 |
| Beam 32: End 1: 21: SPSDX | 0.0000 | 0.0000 | 0.5771 | 48.4524 | 3.0160 | 0.0000 |
| Beam 32: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -384.1461 | -65.2609 | -225.4984 | 0.0000 |
| Beam 32: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -521.0912 | -29.6249 | -176.6540 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 32: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -363.4029 | -61.5131 | -235.7196 | 0.0000 |
| Beam 32: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -356.6877 | -81.4292 | -247.8193 | 0.0000 |
| Beam 32: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -416.6376 | -20.7827 | -194.5130 | 0.0000 |
| Beam 32: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -212.7397 | 43.9929 | -82.1959 | 0.0000 |
| Beam 32: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -391.6547 | -94.2186 | -254.6329 | 0.0000 |
| Beam 32: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -121.4409 | 10.4172 | -86.2785 | 0.0000 |
| Beam 32: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -372.4338 | -38.1487 | -221.7291 | 0.0000 |
| Beam 32: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -447.7573 | 29.8014 | -217.3474 | 0.0000 |
| Beam 32: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -466.2819 | -49.5860 | -234.9526 | 0.0000 |
| Beam 32: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -349.7253 | -6.9550 | -212.2405 | 0.0000 |
| Beam 32: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -356.3638 | -48.3851 | -196.9720 | 0.0000 |
| Beam 32: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -492.3021 | -15.7231 | -149.9338 | 0.0000 |
| Beam 32: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -334.6138 | -47.6114 | -208.9993 | 0.0000 |
| Beam 32: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -328.9054 | -64.5535 | -219.2929 | 0.0000 |
| Beam 32: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -388.8552 | -3.9069 | -165.9865 | 0.0000 |
| Beam 32: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -213.7465 | 46.9670 | -80.3897 | 0.0000 |
| Beam 32: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -363.8723 | -77.3428 | -226.1065 | 0.0000 |
| Beam 32: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -122.4477 | 13.3912 | -84.4723 | 0.0000 |
| Beam 32: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -344.0729 | -22.8455 | -194.1508 | 0.0000 |
| Beam 32: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -418.3195 | 31.6115 | -192.5141 | 0.0000 |
| Beam 32: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -437.7196 | -34.8776 | -207.7355 | 0.0000 |
| Beam 32: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -321.1631 | 7.7534 | -185.0234 | 0.0000 |
| Beam 32: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -364.9277 | -59.0311 | -234.3153 | 0.0000 |
| Beam 32: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -336.5669 | -43.7279 | -206.7370 | 0.0000 |
| Beam 32: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -210.7952 | 6.6125 | -110.3978 | 0.0000 |
| Beam 32: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -204.6077 | 9.2101 | -104.9678 | 0.0000 |
| Beam 32: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -234.2831 | 42.9931 | -74.4230 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|-----------|
| Beam 32: End 1: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -228.0956 | 45.5908 | -68.9930 |
| Beam 32: End 1: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -227.8242 | 3.5132 | -102.6698 |
| Beam 32: End 1: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -207.1990 | 12.1720 | -84.5698 |
| Beam 32: End 1: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -234.8705 | 14.4274 | -91.8774 |
| Beam 32: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -214.2454 | 23.0862 | -73.7774 |
| Beam 32: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -206.9632 | 8.9402 | -106.4631 |
| Beam 32: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -200.7756 | 11.5378 | -101.0331 |
| Beam 32: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -230.4511 | 45.3208 | -70.4883 |
| Beam 32: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -224.2635 | 47.9185 | -65.0583 |
| Beam 32: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -223.9921 | 5.8409 | -98.7352 |
| Beam 32: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -203.3669 | 14.4997 | -80.6352 |
| Beam 32: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -231.0385 | 16.7551 | -87.9427 |
| Beam 32: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -210.4133 | 25.4139 | -69.8427 |
| Beam 32: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -313.4343 | 75.4100 | -87.1910 |
| Beam 32: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -249.2651 | 44.7672 | -106.8619 |
| Beam 32: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -325.6622 | -23.8208 | -124.8750 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|----------|-----------|--------|
| Beam 32: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -297.4290 | 77.1819 | -73.0164 | |
| Beam 32: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -233.8983 | 48.2744 | -91.6411 | |
| Beam 32: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -310.3340 | -14.5100 | -109.1363 | |
| Beam 32: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -321.1948 | -15.1335 | -134.0137 | |
| Beam 32: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -301.6356 | -4.5796 | -114.9942 | |
| Beam 32: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -154.4207 | 42.8989 | -54.0501 | |
| Beam 32: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -297.1540 | 0.1345 | -111.2762 | |
| Beam 32: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -281.5066 | 8.5776 | -96.0606 | |
| Beam 32: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 521.0912 | 94.2186 | 254.6329 | |
| Beam 32: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 521.0912 | 94.2186 | 254.6329 | |
| Beam 32: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 234.8705 | 47.9185 | 110.3978 | |
| Beam 32: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 325.6622 | 77.1819 | 134.0137 | |
| Beam 32: End 1: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 297.1540 | 8.5776 | 111.2762 | |
| Beam 32: End 1: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 154.4207 | 42.8989 | 54.0501 | |
| Beam 32: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | -37.5294 | -6.3315 | 0.0000 |
| Beam 32: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | -8.8576 | 4.5287 | 0.0000 |
| Beam 32: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -8.9975 | -6.2634 | 0.0000 |
| Beam 32: End 2: 4: SPTDX | 0.0000 | 0.0000 | -4.1814 | 45.2926 | 2.2072 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|-----------|--------|--|
| Beam 32: End 2: 5: SPTW | 0.0000 | 0.0000 | 73.5977 | -7.6147 | -57.5106 | 0.0000 | |
| Beam 32: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -87.2379 | -95.7180 | 0.0000 | |
| Beam 32: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -71.0387 | -77.9441 | 0.0000 | |
| Beam 32: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -9.8036 | -6.8328 | 0.0000 | |
| Beam 32: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -7.3609 | 38.4223 | 3.5426 | 0.0000 | |
| Beam 32: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -8.0164 | -5.5871 | 0.0000 | |
| Beam 32: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -6.0206 | 31.4317 | 2.8951 | 0.0000 | |
| Beam 32: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -25.6422 | -17.9723 | 0.0000 | |
| Beam 32: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -24.7093 | -17.3185 | 0.0000 | |
| Beam 32: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 32: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 28.9742 | 7.5707 | 0.0000 | |
| Beam 32: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -21.6341 | -5.6528 | 0.0000 | |
| Beam 32: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 18.4649 | 45.2878 | 0.0000 | |
| Beam 32: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 15.5388 | -42.8488 | -23.1060 | 0.0000 | |
| Beam 32: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -8.2482 | -9.0500 | 0.0000 | |
| Beam 32: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -10.3692 | -7.2211 | 0.0000 | |
| Beam 32: End 2: 21: SPSDX | 0.0000 | 0.0000 | -8.5049 | 46.9461 | 3.0160 | 0.0000 | |
| Beam 32: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -394.6151 | -213.1620 | -238.0797 | 0.0000 | |
| Beam 32: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -531.5602 | -229.5651 | -189.2353 | 0.0000 | |
| Beam 32: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -374.3773 | -201.6119 | -248.3009 | 0.0000 | |
| Beam 32: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -367.6621 | -218.9762 | -260.4006 | 0.0000 | |
| Beam 32: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -430.7707 | -181.7045 | -207.0943 | 0.0000 | |
| Beam 32: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -226.8729 | -39.4477 | -94.7772 | 0.0000 | |
| Beam 32: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -402.6291 | -245.0530 | -267.2143 | 0.0000 | |
| Beam 32: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -132.4153 | -37.7360 | -95.5980 | 0.0000 | |
| Beam 32: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -383.4082 | -181.6792 | -234.3105 | 0.0000 | |
| Beam 32: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -472.1941 | -144.9036 | -229.9287 | 0.0000 | |
| Beam 32: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -480.4150 | -229.3727 | -247.5339 | 0.0000 | |
| Beam 32: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -363.8585 | -142.4501 | -224.8218 | 0.0000 | |
| Beam 32: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -366.8328 | -185.7289 | -209.5533 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 32: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -502.7711 | -204.7235 | -162.5151 | 0.0000 |
| Beam 32: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -345.5882 | -176.7703 | -221.5807 | 0.0000 |
| Beam 32: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -339.8798 | -191.5432 | -231.8742 | 0.0000 |
| Beam 32: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -402.9884 | -154.2714 | -178.5679 | 0.0000 |
| Beam 32: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -227.8796 | -36.8562 | -92.9710 | 0.0000 |
| Beam 32: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -374.8467 | -217.6199 | -238.6878 | 0.0000 |
| Beam 32: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -133.4221 | -35.1445 | -93.7918 | 0.0000 |
| Beam 32: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -355.0473 | -155.5989 | -206.7322 | 0.0000 |
| Beam 32: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -440.8830 | -131.5512 | -205.0954 | 0.0000 |
| Beam 32: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -451.8528 | -203.8106 | -220.3169 | 0.0000 |
| Beam 32: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -335.2962 | -116.8881 | -197.6048 | 0.0000 |
| Beam 32: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -375.9021 | -199.7093 | -246.8966 | 0.0000 |
| Beam 32: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -347.5413 | -173.6290 | -219.3183 | 0.0000 |
| Beam 32: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -228.2448 | -76.7416 | -119.7173 | 0.0000 |
| Beam 32: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -222.0573 | -71.7927 | -114.2873 | 0.0000 |
| Beam 32: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -246.8535 | -48.3593 | -83.7425 | 0.0000 |
| Beam 32: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -240.6660 | -43.4104 | -78.3125 | 0.0000 |
| Beam 32: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -240.3873 | -85.3835 | -111.9893 | 0.0000 |
| Beam 32: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -219.7622 | -68.8870 | -93.8893 | 0.0000 |
| Beam 32: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -245.9700 | -76.8688 | -101.1969 | 0.0000 |
| Beam 32: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -225.3448 | -60.3723 | -83.0969 | 0.0000 |
| Beam 32: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -224.4128 | -72.9578 | -115.7826 | 0.0000 |

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| Beam 32: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -218.2252 | -68.0088 | -110.3526 |
| Beam 32: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -243.0215 | -44.5754 | -79.8078 |
| Beam 32: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -236.8339 | -39.6265 | -74.3778 |
| Beam 32: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -236.5553 | -81.5996 | -108.0547 |
| Beam 32: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -215.9301 | -65.1032 | -89.9547 |
| Beam 32: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -242.1379 | -73.0849 | -97.2622 |
| Beam 32: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -221.5127 | -56.5885 | -79.1622 |
| Beam 32: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -329.5881 | -46.7007 | -96.5105 |
| Beam 32: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -265.4189 | -52.9592 | -116.1814 |
| Beam 32: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -334.3262 | -149.1586 | -134.1945 |
| Beam 32: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -312.5492 | -38.6504 | -82.3359 |
| Beam 32: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -249.0185 | -43.4162 | -100.9606 |
| Beam 32: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -318.9980 | -134.0231 | -118.4558 |
| Beam 32: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -329.8588 | -138.7738 | -143.3332 |
| Beam 32: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -310.2996 | -120.7873 | -124.3137 |
| Beam 32: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -164.8897 | -17.7066 | -63.3696 |

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| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 32: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -305.8180 | -114.3703 | -120.5957 | |
| 0.0000 | | | | | | |
| Beam 32: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -290.1706 | -99.9811 | -105.3801 | |
| 0.0000 | | | | | | |
| Beam 32: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 531.5602 | 245.0530 | 267.2143 | |
| 0.0000 | | | | | | |
| Beam 32: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 531.5602 | 245.0530 | 267.2143 | |
| 0.0000 | | | | | | |
| Beam 32: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 246.8535 | 85.3835 | 119.7173 | |
| 0.0000 | | | | | | |
| Beam 32: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 334.3262 | 149.1586 | 143.3332 | |
| 0.0000 | | | | | | |
| Beam 32: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 305.8180 | 114.3703 | 120.5957 | |
| 0.0000 | | | | | | |
| Beam 32: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 164.8897 | 17.7066 | 63.3696 | |
| 0.0000 | | | | | | |
| Beam 33: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | 93.5166 | 12.3075 | 0.0000 |
| Beam 33: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 40.7612 | 4.5287 | 0.0000 |
| Beam 33: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -11.5897 | -6.2634 | 0.0000 |
| Beam 33: End 1: 4: SPTDX | 0.0000 | 0.0000 | 13.3176 | 41.6812 | 2.2072 | 0.0000 |
| Beam 33: End 1: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -64.5094 | -57.5106 | 0.0000 |
| Beam 33: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -4.3433 | -95.7180 | 0.0000 |
| Beam 33: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -3.5368 | -77.9441 | 0.0000 |
| Beam 33: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -12.6976 | -6.8328 | 0.0000 |
| Beam 33: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8511 | 38.6160 | 3.5426 | 0.0000 |
| Beam 33: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -10.3827 | -5.5871 | 0.0000 |
| Beam 33: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.6074 | 31.5887 | 2.8951 | 0.0000 |
| Beam 33: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -33.9768 | -17.9723 | 0.0000 |
| Beam 33: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -32.7406 | -17.3185 | 0.0000 |
| Beam 33: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 33: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -0.5535 | 7.5707 | 0.0000 |

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|--|--------|--------|-----------|----------|-----------|--------|--|
| Beam 33: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 0.4133 | -5.6528 | 0.0000 | |
| Beam 33: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 58.8531 | 45.2878 | 0.0000 | |
| Beam 33: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 11.3360 | -53.0612 | -23.1060 | 0.0000 | |
| Beam 33: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -0.4106 | -9.0500 | 0.0000 | |
| Beam 33: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -13.3818 | -7.2211 | 0.0000 | |
| Beam 33: End 1: 21: SPSDX | 0.0000 | 0.0000 | 9.6591 | 46.5075 | 3.0160 | 0.0000 | |
| Beam 33: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -375.3092 | 78.9958 | -212.9171 | 0.0000 | |
| Beam 33: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -512.2543 | 166.6710 | -164.0727 | 0.0000 | |
| Beam 33: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -354.4390 | 74.8290 | -223.1382 | 0.0000 | |
| Beam 33: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -347.7238 | 52.3611 | -235.2380 | 0.0000 | |
| Beam 33: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -404.7078 | 135.2191 | -181.9316 | 0.0000 | |
| Beam 33: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -200.8099 | 122.5135 | -69.6145 | 0.0000 | |
| Beam 33: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -382.6908 | 52.8592 | -242.0516 | 0.0000 | |
| Beam 33: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -112.4770 | 54.8137 | -76.9590 | 0.0000 | |
| Beam 33: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -363.4699 | 101.6252 | -209.1478 | 0.0000 | |
| Beam 33: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -425.5238 | 195.6710 | -204.7661 | 0.0000 | |
| Beam 33: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -454.3520 | 125.2806 | -222.3713 | 0.0000 | |
| Beam 33: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -337.7955 | 123.6202 | -199.6592 | 0.0000 | |
| Beam 33: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -347.5269 | 85.3143 | -184.3906 | 0.0000 | |
| Beam 33: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -483.4652 | 169.6328 | -137.3525 | 0.0000 | |
| Beam 33: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -325.6499 | 77.7908 | -196.4180 | 0.0000 | |
| Beam 33: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -319.9415 | 58.6796 | -206.7116 | 0.0000 | |
| Beam 33: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -376.9254 | 141.5376 | -153.4052 | 0.0000 | |
| Beam 33: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -201.8167 | 125.8702 | -67.8083 | 0.0000 | |
| Beam 33: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -354.9084 | 59.1777 | -213.5252 | 0.0000 | |
| Beam 33: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -113.4837 | 58.1703 | -75.1528 | 0.0000 | |
| Beam 33: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -335.1090 | 106.1512 | -181.5695 | 0.0000 | |
| Beam 33: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -397.9594 | 186.6508 | -179.9327 | 0.0000 | |
| Beam 33: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -425.7898 | 129.1354 | -195.1542 | 0.0000 | |
| Beam 33: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -309.2333 | 127.4749 | -172.4421 | 0.0000 | |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 33: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -355.9638 | 77.8904 | -221.7340 | 0.0000 |
| Beam 33: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -327.6029 | 82.4165 | -194.1557 | 0.0000 |
| Beam 33: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -194.9777 | 83.6695 | -101.0783 | 0.0000 |
| Beam 33: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -188.7902 | 83.9159 | -95.6483 | 0.0000 |
| Beam 33: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -223.3448 | 129.9026 | -65.1035 | 0.0000 |
| Beam 33: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -217.1573 | 130.1490 | -59.6735 | 0.0000 |
| Beam 33: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -216.8931 | 87.9696 | -93.3503 | 0.0000 |
| Beam 33: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -196.2679 | 88.7909 | -75.2503 | 0.0000 |
| Beam 33: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -225.4032 | 101.8396 | -82.5579 | 0.0000 |
| Beam 33: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -204.7780 | 102.6609 | -64.4579 | 0.0000 |
| Beam 33: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -191.1457 | 84.5410 | -97.1436 | 0.0000 |
| Beam 33: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -184.9581 | 84.7874 | -91.7136 | 0.0000 |
| Beam 33: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -219.5128 | 130.7741 | -61.1688 | 0.0000 |
| Beam 33: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -213.3252 | 131.0205 | -55.7388 | 0.0000 |
| Beam 33: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -213.0610 | 88.8411 | -89.4157 | 0.0000 |
| Beam 33: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -192.4359 | 89.6624 | -71.3157 | 0.0000 |
| Beam 33: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -221.5712 | 102.7111 | -78.6232 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 33: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -200.9460 | 103.5324 | -60.5232 |
| Beam 33: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -298.9126 | 191.7160 | -77.8715 |
| Beam 33: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -234.7434 | 136.6890 | -97.5424 |
| Beam 33: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -318.5201 | 98.5374 | -115.5555 |
| Beam 33: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -283.9409 | 187.6024 | -63.6969 |
| Beam 33: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -220.4102 | 134.5532 | -82.3216 |
| Beam 33: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -303.1919 | 102.0235 | -99.8168 |
| Beam 33: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -314.0527 | 105.5271 | -124.6942 |
| Beam 33: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -294.4935 | 108.6485 | -105.6747 |
| Beam 33: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -145.5838 | 99.8599 | -44.7306 |
| Beam 33: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -290.0119 | 111.6595 | -101.9567 |
| Beam 33: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -274.3645 | 114.1566 | -86.7411 |
| Beam 33: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 512.2543 | 195.6710 | 242.0516 |
| Beam 33: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 512.2543 | 195.6710 | 242.0516 |
| Beam 33: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 225.4032 | 131.0205 | 101.0783 |
| Beam 33: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 318.5201 | 191.7160 | 124.6942 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 33: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 290.0119 | 114.1566 | 101.9567 | |
| 0.0000 | | | | | | |
| Beam 33: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 145.5838 | 99.8599 | 44.7306 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | 27.9936 | 2.9880 | 0.0000 |
| Beam 33: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 15.9518 | 4.5287 | 0.0000 |
| Beam 33: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -10.2936 | -6.2634 | 0.0000 |
| Beam 33: End 2: 4: SPTDX | 0.0000 | 0.0000 | 4.8436 | 45.1487 | 2.2072 | 0.0000 |
| Beam 33: End 2: 5: SPTW | 0.0000 | 0.0000 | 75.0417 | -35.9016 | -57.5106 | 0.0000 |
| Beam 33: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -45.7906 | -95.7180 | 0.0000 |
| Beam 33: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -37.2877 | -77.9441 | 0.0000 |
| Beam 33: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -11.2506 | -6.8328 | 0.0000 |
| Beam 33: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -0.2549 | 39.8693 | 3.5426 | 0.0000 |
| Beam 33: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -9.1995 | -5.5871 | 0.0000 |
| Beam 33: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -0.2066 | 32.6148 | 2.8951 | 0.0000 |
| Beam 33: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -29.8095 | -17.9723 | 0.0000 |
| Beam 33: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -28.7249 | -17.3185 | 0.0000 |
| Beam 33: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 33: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | 14.2104 | 7.5707 | 0.0000 |
| Beam 33: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | -10.6104 | -5.6528 | 0.0000 |
| Beam 33: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 38.6590 | 45.2878 | 0.0000 |
| Beam 33: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 13.4374 | -48.3542 | -23.1060 | 0.0000 |
| Beam 33: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -4.3294 | -9.0500 | 0.0000 |
| Beam 33: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -11.8755 | -7.2211 | 0.0000 |
| Beam 33: End 2: 21: SPSDX | 0.0000 | 0.0000 | 0.5771 | 48.4524 | 3.0160 | 0.0000 |
| Beam 33: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -384.1461 | -65.2609 | -225.4984 | 0.0000 |
| Beam 33: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -521.0912 | -29.6249 | -176.6540 | 0.0000 |
| Beam 33: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -363.4029 | -61.5131 | -235.7196 | 0.0000 |
| Beam 33: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -356.6877 | -81.4292 | -247.8193 | 0.0000 |
| Beam 33: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -416.6376 | -20.7827 | -194.5130 | 0.0000 |
| Beam 33: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -212.7397 | 43.9929 | -82.1959 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 33: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -391.6547 | -94.2186 | -254.6329 | 0.0000 |
| Beam 33: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -121.4409 | 10.4172 | -86.2785 | 0.0000 |
| Beam 33: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -372.4338 | -38.1487 | -221.7291 | 0.0000 |
| Beam 33: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -447.7573 | 29.8014 | -217.3474 | 0.0000 |
| Beam 33: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -466.2819 | -49.5860 | -234.9526 | 0.0000 |
| Beam 33: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -349.7253 | -6.9550 | -212.2405 | 0.0000 |
| Beam 33: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -356.3638 | -48.3851 | -196.9720 | 0.0000 |
| Beam 33: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -492.3021 | -15.7231 | -149.9338 | 0.0000 |
| Beam 33: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -334.6138 | -47.6114 | -208.9993 | 0.0000 |
| Beam 33: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -328.9054 | -64.5535 | -219.2929 | 0.0000 |
| Beam 33: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -388.8552 | -3.9069 | -165.9865 | 0.0000 |
| Beam 33: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -213.7465 | 46.9670 | -80.3897 | 0.0000 |
| Beam 33: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -363.8723 | -77.3428 | -226.1065 | 0.0000 |
| Beam 33: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -122.4477 | 13.3912 | -84.4723 | 0.0000 |
| Beam 33: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -344.0729 | -22.8455 | -194.1508 | 0.0000 |
| Beam 33: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -418.3195 | 31.6115 | -192.5141 | 0.0000 |
| Beam 33: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -437.7196 | -34.8776 | -207.7355 | 0.0000 |
| Beam 33: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -321.1631 | 7.7534 | -185.0234 | 0.0000 |
| Beam 33: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -364.9277 | -59.0311 | -234.3153 | 0.0000 |
| Beam 33: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -336.5669 | -43.7279 | -206.7370 | 0.0000 |
| Beam 33: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -210.7952 | 6.6125 | -110.3978 | 0.0000 |
| Beam 33: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -204.6077 | 9.2101 | -104.9678 | 0.0000 |
| Beam 33: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -234.2831 | 42.9931 | -74.4230 | 0.0000 |
| Beam 33: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -228.0956 | 45.5908 | -68.9930 | 0.0000 |
| Beam 33: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -227.8242 | 3.5132 | -102.6698 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 33: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -207.1990 | 12.1720 | -84.5698 |
| Beam 33: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -234.8705 | 14.4274 | -91.8774 |
| Beam 33: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -214.2454 | 23.0862 | -73.7774 |
| Beam 33: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -206.9632 | 8.9402 | -106.4631 |
| Beam 33: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -200.7756 | 11.5378 | -101.0331 |
| Beam 33: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -230.4511 | 45.3208 | -70.4883 |
| Beam 33: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -224.2635 | 47.9185 | -65.0583 |
| Beam 33: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -223.9921 | 5.8409 | -98.7352 |
| Beam 33: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -203.3669 | 14.4997 | -80.6352 |
| Beam 33: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -231.0385 | 16.7551 | -87.9427 |
| Beam 33: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -210.4133 | 25.4139 | -69.8427 |
| Beam 33: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -313.4343 | 75.4100 | -87.1910 |
| Beam 33: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -249.2651 | 44.7672 | -106.8619 |
| Beam 33: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -325.6622 | -23.8208 | -124.8750 |
| Beam 33: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -297.4290 | 77.1819 | -73.0164 |
| Beam 33: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -233.8983 | 48.2744 | -91.6411 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 33: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -310.3340 | -14.5100 | -109.1363 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -321.1948 | -15.1335 | -134.0137 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -301.6356 | -4.5796 | -114.9942 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -154.4207 | 42.8989 | -54.0501 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -297.1540 | 0.1345 | -111.2762 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -281.5066 | 8.5776 | -96.0606 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 521.0912 | 94.2186 | 254.6329 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 521.0912 | 94.2186 | 254.6329 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 234.8705 | 47.9185 | 110.3978 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 325.6622 | 77.1819 | 134.0137 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 297.1540 | 8.5776 | 111.2762 | |
| 0.0000 | | | | | | |
| Beam 33: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 154.4207 | 42.8989 | 54.0501 | |
| 0.0000 | | | | | | |
| Beam 34: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | 157.3153 | 21.3818 | 0.0000 |
| Beam 34: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 64.9178 | 4.5287 | 0.0000 |
| Beam 34: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -12.8517 | -6.2634 | 0.0000 |
| Beam 34: End 1: 4: SPTDX | 0.0000 | 0.0000 | 20.7731 | 35.3413 | 2.2072 | 0.0000 |
| Beam 34: End 1: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -92.4091 | -57.5106 | 0.0000 |
| Beam 34: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 36.0133 | -95.7180 | 0.0000 |
| Beam 34: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 29.3260 | -77.9441 | 0.0000 |
| Beam 34: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -14.1065 | -6.8328 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 34: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 13.7701 | 34.8011 | 3.5426 | 0.0000 |
| Beam 34: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -11.5347 | -5.5871 | 0.0000 |
| Beam 34: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 11.2684 | 28.4666 | 2.8951 | 0.0000 |
| Beam 34: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -38.0344 | -17.9723 | 0.0000 |
| Beam 34: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -36.6506 | -17.3185 | 0.0000 |
| Beam 34: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 34: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -14.9288 | 7.5707 | 0.0000 |
| Beam 34: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 11.1468 | -5.6528 | 0.0000 |
| Beam 34: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 78.5158 | 45.2878 | 0.0000 |
| Beam 34: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 9.2899 | -56.8770 | -23.1060 | 0.0000 |
| Beam 34: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 3.4050 | -9.0500 | 0.0000 |
| Beam 34: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -14.8484 | -7.2211 | 0.0000 |
| Beam 34: End 1: 21: SPSDX | 0.0000 | 0.0000 | 18.5021 | 41.2977 | 3.0160 | 0.0000 |
| Beam 34: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -367.8537 | 216.4478 | -200.6668 | 0.0000 |
| Beam 34: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -504.7988 | 354.7927 | -151.8225 | 0.0000 |
| Beam 34: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -346.9835 | 204.5591 | -210.8880 | 0.0000 |
| Beam 34: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -340.2683 | 179.6065 | -222.9877 | 0.0000 |
| Beam 34: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -394.6428 | 283.0543 | -169.6814 | 0.0000 |
| Beam 34: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -190.7450 | 194.9065 | -57.3643 | 0.0000 |
| Beam 34: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -375.2353 | 193.0424 | -229.8014 | 0.0000 |
| Beam 34: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -105.0215 | 95.0178 | -67.8848 | 0.0000 |
| Beam 34: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -356.0144 | 234.6967 | -196.8976 | 0.0000 |
| Beam 34: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -405.4263 | 349.3521 | -192.5158 | 0.0000 |
| Beam 34: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -444.2871 | 291.4842 | -210.1210 | 0.0000 |
| Beam 34: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -327.7306 | 246.6979 | -187.4089 | 0.0000 |
| Beam 34: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -340.0714 | 212.4869 | -172.1404 | 0.0000 |
| Beam 34: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -476.0097 | 347.1026 | -125.1022 | 0.0000 |
| Beam 34: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -318.1944 | 196.8689 | -184.1678 | 0.0000 |
| Beam 34: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -312.4860 | 175.6456 | -194.4613 | 0.0000 |
| Beam 34: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -366.8605 | 279.0934 | -141.1550 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 34: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -191.7517 | 198.6357 | -55.5581 | 0.0000 |
| Beam 34: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -347.4529 | 189.0815 | -201.2749 | 0.0000 |
| Beam 34: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -106.0282 | 98.7470 | -66.0786 | 0.0000 |
| Beam 34: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -327.6535 | 228.7292 | -169.3193 | 0.0000 |
| Beam 34: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -379.6861 | 330.4705 | -167.6825 | 0.0000 |
| Beam 34: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -415.7249 | 284.7709 | -182.9040 | 0.0000 |
| Beam 34: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -299.1683 | 239.9846 | -160.1919 | 0.0000 |
| Beam 34: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -348.5083 | 208.1847 | -209.4837 | 0.0000 |
| Beam 34: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -320.1474 | 202.2172 | -181.9054 | 0.0000 |
| Beam 34: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -180.7253 | 153.1415 | -92.0041 | 0.0000 |
| Beam 34: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -174.5378 | 151.0985 | -86.5741 | 0.0000 |
| Beam 34: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -213.8432 | 210.7493 | -56.0292 | 0.0000 |
| Beam 34: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -207.6557 | 208.7063 | -50.5992 | 0.0000 |
| Beam 34: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -207.3985 | 166.4305 | -84.2761 | 0.0000 |
| Beam 34: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -186.7733 | 159.6205 | -66.1761 | 0.0000 |
| Beam 34: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -217.3339 | 183.7128 | -73.4836 | 0.0000 |
| Beam 34: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -196.7087 | 176.9028 | -55.3836 | 0.0000 |
| Beam 34: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -176.8933 | 152.5951 | -88.0694 | 0.0000 |
| Beam 34: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -170.7057 | 150.5521 | -82.6394 | 0.0000 |
| Beam 34: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -210.0112 | 210.2030 | -52.0946 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|-----------|
| Beam 34: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -203.8236 | 208.1600 | -46.6646 |
| Beam 34: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -203.5665 | 165.8841 | -80.3414 |
| Beam 34: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -182.9413 | 159.0741 | -62.2414 |
| Beam 34: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -213.5018 | 183.1665 | -69.5490 |
| Beam 34: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -192.8767 | 176.3565 | -51.4490 |
| Beam 34: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -285.9219 | 299.8773 | -68.7972 |
| Beam 34: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -221.7527 | 221.1078 | -88.4681 |
| Beam 34: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -312.5557 | 215.2600 | -106.4812 |
| Beam 34: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -271.9566 | 290.4103 | -54.6227 |
| Beam 34: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -208.4259 | 213.8548 | -73.2473 |
| Beam 34: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -297.2275 | 213.0746 | -90.7425 |
| Beam 34: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -308.0883 | 220.5967 | -115.6200 |
| Beam 34: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -288.5291 | 216.4812 | -96.6004 |
| Beam 34: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -138.1283 | 152.3136 | -35.6563 |
| Beam 34: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -284.0475 | 217.8340 | -92.8824 |
| Beam 34: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -268.4001 | 214.5416 | -77.6668 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 34: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 504.7988 | 354.7927 | 229.8014 | 0.0000 |
| Beam 34: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 504.7988 | 354.7927 | 229.8014 | 0.0000 |
| Beam 34: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 217.3339 | 210.7493 | 92.0041 | 0.0000 |
| Beam 34: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 312.5557 | 299.8773 | 115.6200 | 0.0000 |
| Beam 34: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 284.0475 | 217.8340 | 92.8824 | 0.0000 |
| Beam 34: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 138.1283 | 152.3136 | 35.6563 | 0.0000 |
| Beam 34: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | 93.5166 | 12.3075 | 0.0000 |
| Beam 34: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 40.7612 | 4.5287 | 0.0000 |
| Beam 34: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -11.5897 | -6.2634 | 0.0000 |
| Beam 34: End 2: 4: SPTDX | 0.0000 | 0.0000 | 13.3176 | 41.6812 | 2.2072 | 0.0000 |
| Beam 34: End 2: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -64.5094 | -57.5106 | 0.0000 |
| Beam 34: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | -4.3433 | -95.7180 | 0.0000 |
| Beam 34: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | -3.5368 | -77.9441 | 0.0000 |
| Beam 34: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -12.6976 | -6.8328 | 0.0000 |
| Beam 34: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8511 | 38.6160 | 3.5426 | 0.0000 |
| Beam 34: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -10.3827 | -5.5871 | 0.0000 |
| Beam 34: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.6074 | 31.5887 | 2.8951 | 0.0000 |
| Beam 34: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -33.9768 | -17.9723 | 0.0000 |
| Beam 34: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -32.7406 | -17.3185 | 0.0000 |
| Beam 34: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 34: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -0.5535 | 7.5707 | 0.0000 |
| Beam 34: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 0.4133 | -5.6528 | 0.0000 |
| Beam 34: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 58.8531 | 45.2878 | 0.0000 |
| Beam 34: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 11.3360 | -53.0612 | -23.1060 | 0.0000 |
| Beam 34: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | -0.4106 | -9.0500 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|----------|-----------|--------|--|
| Beam 34: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -13.3818 | -7.2211 | 0.0000 | |
| Beam 34: End 2: 21: SPSPDX | 0.0000 | 0.0000 | 9.6591 | 46.5075 | 3.0160 | 0.0000 | |
| Beam 34: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -375.3092 | 78.9958 | -212.9171 | 0.0000 | |
| Beam 34: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -512.2543 | 166.6710 | -164.0727 | 0.0000 | |
| Beam 34: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -354.4390 | 74.8290 | -223.1382 | 0.0000 | |
| Beam 34: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -347.7238 | 52.3611 | -235.2380 | 0.0000 | |
| Beam 34: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -404.7078 | 135.2191 | -181.9316 | 0.0000 | |
| Beam 34: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -200.8099 | 122.5135 | -69.6145 | 0.0000 | |
| Beam 34: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -382.6908 | 52.8592 | -242.0516 | 0.0000 | |
| Beam 34: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -112.4770 | 54.8137 | -76.9590 | 0.0000 | |
| Beam 34: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -363.4699 | 101.6252 | -209.1478 | 0.0000 | |
| Beam 34: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -425.5238 | 195.6710 | -204.7661 | 0.0000 | |
| Beam 34: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -454.3520 | 125.2806 | -222.3713 | 0.0000 | |
| Beam 34: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -337.7955 | 123.6202 | -199.6592 | 0.0000 | |
| Beam 34: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -347.5269 | 85.3143 | -184.3906 | 0.0000 | |
| Beam 34: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -483.4652 | 169.6328 | -137.3525 | 0.0000 | |
| Beam 34: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -325.6499 | 77.7908 | -196.4180 | 0.0000 | |
| Beam 34: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -319.9415 | 58.6796 | -206.7116 | 0.0000 | |
| Beam 34: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -376.9254 | 141.5376 | -153.4052 | 0.0000 | |
| Beam 34: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -201.8167 | 125.8702 | -67.8083 | 0.0000 | |
| Beam 34: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -354.9084 | 59.1777 | -213.5252 | 0.0000 | |
| Beam 34: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -113.4837 | 58.1703 | -75.1528 | 0.0000 | |
| Beam 34: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -335.1090 | 106.1512 | -181.5695 | 0.0000 | |
| Beam 34: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -397.9594 | 186.6508 | -179.9327 | 0.0000 | |
| Beam 34: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -425.7898 | 129.1354 | -195.1542 | 0.0000 | |
| Beam 34: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -309.2333 | 127.4749 | -172.4421 | 0.0000 | |
| Beam 34: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -355.9638 | 77.8904 | -221.7340 | 0.0000 | |
| Beam 34: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -327.6029 | 82.4165 | -194.1557 | 0.0000 | |
| Beam 34: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -194.9777 | 83.6695 | -101.0783 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 34: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | -188.7902 | 83.9159 | -95.6483 |
| Beam 34: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | -223.3448 | 129.9026 | -65.1035 |
| Beam 34: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -217.1573 | 130.1490 | -59.6735 |
| Beam 34: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -216.8931 | 87.9696 | -93.3503 |
| Beam 34: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -196.2679 | 88.7909 | -75.2503 |
| Beam 34: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -225.4032 | 101.8396 | -82.5579 |
| Beam 34: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -204.7780 | 102.6609 | -64.4579 |
| Beam 34: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -191.1457 | 84.5410 | -97.1436 |
| Beam 34: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -184.9581 | 84.7874 | -91.7136 |
| Beam 34: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -219.5128 | 130.7741 | -61.1688 |
| Beam 34: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -213.3252 | 131.0205 | -55.7388 |
| Beam 34: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -213.0610 | 88.8411 | -89.4157 |
| Beam 34: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -192.4359 | 89.6624 | -71.3157 |
| Beam 34: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -221.5712 | 102.7111 | -78.6232 |
| Beam 34: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -200.9460 | 103.5324 | -60.5232 |
| Beam 34: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -298.9126 | 191.7160 | -77.8715 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 34: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -234.7434 | 136.6890 | -97.5424 |
| 0.0000 | | | | | |
| Beam 34: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -318.5201 | 98.5374 | -115.5555 |
| 0.0000 | | | | | |
| Beam 34: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -283.9409 | 187.6024 | -63.6969 |
| 0.0000 | | | | | |
| Beam 34: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -220.4102 | 134.5532 | -82.3216 |
| 0.0000 | | | | | |
| Beam 34: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -303.1919 | 102.0235 | -99.8168 |
| 0.0000 | | | | | |
| Beam 34: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -314.0527 | 105.5271 | -124.6942 |
| 0.0000 | | | | | |
| Beam 34: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -294.4935 | 108.6485 | -105.6747 |
| 0.0000 | | | | | |
| Beam 34: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -145.5838 | 99.8599 | -44.7306 |
| 0.0000 | | | | | |
| Beam 34: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -290.0119 | 111.6595 | -101.9567 |
| 0.0000 | | | | | |
| Beam 34: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -274.3645 | 114.1566 | -86.7411 |
| 0.0000 | | | | | |
| Beam 34: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 512.2543 | 195.6710 | 242.0516 |
| 0.0000 | | | | | |
| Beam 34: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 512.2543 | 195.6710 | 242.0516 |
| 0.0000 | | | | | |
| Beam 34: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 225.4032 | 131.0205 | 101.0783 |
| 0.0000 | | | | | |
| Beam 34: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 318.5201 | 191.7160 | 124.6942 |
| 0.0000 | | | | | |
| Beam 34: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 290.0119 | 114.1566 | 101.9567 |
| 0.0000 | | | | | |
| Beam 34: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 145.5838 | 99.8599 | 44.7306 |
| 0.0000 | | | | | |
| Beam 35: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | 222.8383 | 30.7013 |
| | | | | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLS0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|-----------|--------|--|
| Beam 35: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 89.7272 | 4.5287 | 0.0000 | |
| Beam 35: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -14.1478 | -6.2634 | 0.0000 | |
| Beam 35: End 1: 4: SPTDX | 0.0000 | 0.0000 | 27.3281 | 26.1672 | 2.2072 | 0.0000 | |
| Beam 35: End 1: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -121.0629 | -57.5106 | 0.0000 | |
| Beam 35: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 77.4607 | -95.7180 | 0.0000 | |
| Beam 35: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 63.0770 | -77.9441 | 0.0000 | |
| Beam 35: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -15.5535 | -6.8328 | 0.0000 | |
| Beam 35: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 20.8761 | 28.2183 | 3.5426 | 0.0000 | |
| Beam 35: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -12.7178 | -5.5871 | 0.0000 | |
| Beam 35: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 17.0824 | 23.0800 | 2.8951 | 0.0000 | |
| Beam 35: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -42.2017 | -17.9723 | 0.0000 | |
| Beam 35: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -40.6663 | -17.3185 | 0.0000 | |
| Beam 35: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 35: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -29.6926 | 7.5707 | 0.0000 | |
| Beam 35: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 22.1705 | -5.6528 | 0.0000 | |
| Beam 35: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 98.7099 | 45.2878 | 0.0000 | |
| Beam 35: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 7.1885 | -60.0079 | -23.1060 | 0.0000 | |
| Beam 35: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 7.3238 | -9.0500 | 0.0000 | |
| Beam 35: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -16.3547 | -7.2211 | 0.0000 | |
| Beam 35: End 1: 21: SPSPDX | 0.0000 | 0.0000 | 27.5841 | 32.5413 | 3.0160 | 0.0000 | |
| Beam 35: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -361.2987 | 354.9519 | -188.0855 | 0.0000 | |
| Beam 35: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -498.2438 | 545.3359 | -139.2411 | 0.0000 | |
| Beam 35: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -340.4285 | 335.1325 | -198.3067 | 0.0000 | |
| Beam 35: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -333.7133 | 307.6281 | -210.4064 | 0.0000 | |
| Beam 35: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -385.7936 | 431.2901 | -157.1001 | 0.0000 | |
| Beam 35: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -181.8957 | 265.6612 | -44.7830 | 0.0000 | |
| Beam 35: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -368.6803 | 334.3515 | -217.2200 | 0.0000 | |
| Beam 35: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -98.4665 | 133.6456 | -58.5653 | 0.0000 | |
| Beam 35: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -349.4594 | 368.7018 | -184.3162 | 0.0000 | |
| Beam 35: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -386.2733 | 499.7279 | -179.9345 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 35: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -435.4379 | 458.5849 | -197.5397 | 0.0000 |
| Beam 35: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -318.8813 | 369.5070 | -174.8276 | 0.0000 |
| Beam 35: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -333.5164 | 340.4336 | -159.5591 | 0.0000 |
| Beam 35: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -469.4547 | 526.7059 | -112.5209 | 0.0000 |
| Beam 35: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -311.6394 | 316.5025 | -171.5864 | 0.0000 |
| Beam 35: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -305.9310 | 293.1099 | -181.8800 | 0.0000 |
| Beam 35: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -358.0112 | 416.7719 | -128.5737 | 0.0000 |
| Beam 35: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -182.9025 | 269.7729 | -42.9768 | 0.0000 |
| Beam 35: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -340.8979 | 319.8332 | -188.6936 | 0.0000 |
| Beam 35: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -99.4732 | 137.7574 | -56.7591 | 0.0000 |
| Beam 35: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -321.0985 | 351.9572 | -156.7380 | 0.0000 |
| Beam 35: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -362.4065 | 471.4210 | -155.1012 | 0.0000 |
| Beam 35: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -406.8756 | 441.0179 | -170.3226 | 0.0000 |
| Beam 35: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -290.3191 | 351.9401 | -147.6105 | 0.0000 |
| Beam 35: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -341.9533 | 339.3375 | -196.9024 | 0.0000 |
| Beam 35: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -313.5924 | 322.5929 | -169.3241 | 0.0000 |
| Beam 35: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -167.1897 | 219.2105 | -82.6846 | 0.0000 |
| Beam 35: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -161.0022 | 214.8162 | -77.2546 | 0.0000 |
| Beam 35: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -205.1868 | 290.3301 | -46.7097 | 0.0000 |
| Beam 35: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -198.9993 | 285.9358 | -41.2797 | 0.0000 |
| Beam 35: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -198.7493 | 243.5637 | -74.9566 | 0.0000 |
| Beam 35: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -178.1242 | 228.9161 | -56.8566 | 0.0000 |
| Beam 35: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -210.1485 | 264.8996 | -64.1641 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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| Beam 35: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -189.5233 | 250.2520 | -46.0641 |
| Beam 35: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -163.3577 | 217.2079 | -78.7499 |
| Beam 35: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -157.1701 | 212.8137 | -73.3199 |
| Beam 35: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -201.3548 | 288.3276 | -42.7751 |
| Beam 35: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -195.1672 | 283.9333 | -37.3451 |
| Beam 35: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -194.9173 | 241.5612 | -71.0219 |
| Beam 35: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -174.2921 | 226.9136 | -52.9219 |
| Beam 35: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -206.3164 | 262.8971 | -60.2295 |
| Beam 35: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -185.6912 | 248.2495 | -42.1295 |
| Beam 35: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -273.6821 | 406.1672 | -59.4777 |
| Beam 35: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -209.5129 | 303.0133 | -79.1486 |
| Beam 35: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -307.3117 | 333.0069 | -97.1617 |
| Beam 35: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -260.7504 | 391.5898 | -45.3032 |
| Beam 35: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -197.2197 | 290.8926 | -63.9278 |
| Beam 35: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -291.9835 | 324.9968 | -81.4230 |
| Beam 35: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -302.8443 | 336.6460 | -106.3005 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 35: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -283.2851 | 325.0980 | -87.2809 | 0.0000 |
| Beam 35: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -131.5733 | 203.5220 | -26.3368 | 0.0000 |
| Beam 35: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -278.8035 | 324.7478 | -83.5629 | 0.0000 |
| Beam 35: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -263.1561 | 315.5094 | -68.3473 | 0.0000 |
| Beam 35: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 498.2438 | 545.3359 | 217.2200 | 0.0000 |
| Beam 35: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 498.2438 | 545.3359 | 217.2200 | 0.0000 |
| Beam 35: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 210.1485 | 290.3301 | 82.6846 | 0.0000 |
| Beam 35: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 307.3117 | 406.1672 | 106.3005 | 0.0000 |
| Beam 35: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 278.8035 | 324.7478 | 83.5629 | 0.0000 |
| Beam 35: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 131.5733 | 203.5220 | 26.3368 | 0.0000 |
| Beam 35: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | 157.3153 | 21.3818 | 0.0000 |
| Beam 35: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 64.9178 | 4.5287 | 0.0000 |
| Beam 35: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -12.8517 | -6.2634 | 0.0000 |
| Beam 35: End 2: 4: SPTDX | 0.0000 | 0.0000 | 20.7731 | 35.3413 | 2.2072 | 0.0000 |
| Beam 35: End 2: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -92.4091 | -57.5106 | 0.0000 |
| Beam 35: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 36.0133 | -95.7180 | 0.0000 |
| Beam 35: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 29.3260 | -77.9441 | 0.0000 |
| Beam 35: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -14.1065 | -6.8328 | 0.0000 |
| Beam 35: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 13.7701 | 34.8011 | 3.5426 | 0.0000 |
| Beam 35: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -11.5347 | -5.5871 | 0.0000 |
| Beam 35: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 11.2684 | 28.4666 | 2.8951 | 0.0000 |
| Beam 35: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -38.0344 | -17.9723 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
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| Beam 35: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -36.6506 | -17.3185 | 0.0000 | |
| Beam 35: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 35: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -14.9288 | 7.5707 | 0.0000 | |
| Beam 35: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 11.1468 | -5.6528 | 0.0000 | |
| Beam 35: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 78.5158 | 45.2878 | 0.0000 | |
| Beam 35: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 9.2899 | -56.8770 | -23.1060 | 0.0000 | |
| Beam 35: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 3.4050 | -9.0500 | 0.0000 | |
| Beam 35: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -14.8484 | -7.2211 | 0.0000 | |
| Beam 35: End 2: 21: SPSDX | 0.0000 | 0.0000 | 18.5021 | 41.2977 | 3.0160 | 0.0000 | |
| Beam 35: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -367.8537 | 216.4478 | -200.6668 | 0.0000 | |
| Beam 35: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -504.7988 | 354.7927 | -151.8225 | 0.0000 | |
| Beam 35: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -346.9835 | 204.5591 | -210.8880 | 0.0000 | |
| Beam 35: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -340.2683 | 179.6065 | -222.9877 | 0.0000 | |
| Beam 35: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -394.6428 | 283.0543 | -169.6814 | 0.0000 | |
| Beam 35: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -190.7450 | 194.9065 | -57.3643 | 0.0000 | |
| Beam 35: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -375.2353 | 193.0424 | -229.8014 | 0.0000 | |
| Beam 35: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -105.0215 | 95.0178 | -67.8848 | 0.0000 | |
| Beam 35: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -356.0144 | 234.6967 | -196.8976 | 0.0000 | |
| Beam 35: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -405.4263 | 349.3521 | -192.5158 | 0.0000 | |
| Beam 35: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -444.2871 | 291.4842 | -210.1210 | 0.0000 | |
| Beam 35: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -327.7306 | 246.6979 | -187.4089 | 0.0000 | |
| Beam 35: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -340.0714 | 212.4869 | -172.1404 | 0.0000 | |
| Beam 35: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -476.0097 | 347.1026 | -125.1022 | 0.0000 | |
| Beam 35: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -318.1944 | 196.8689 | -184.1678 | 0.0000 | |
| Beam 35: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -312.4860 | 175.6456 | -194.4613 | 0.0000 | |
| Beam 35: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -366.8605 | 279.0934 | -141.1550 | 0.0000 | |
| Beam 35: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -191.7517 | 198.6357 | -55.5581 | 0.0000 | |
| Beam 35: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -347.4529 | 189.0815 | -201.2749 | 0.0000 | |
| Beam 35: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -106.0282 | 98.7470 | -66.0786 | 0.0000 | |
| Beam 35: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -327.6535 | 228.7292 | -169.3193 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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| Beam 35: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -379.6861 | 330.4705 | -167.6825 | 0.0000 |
| Beam 35: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -415.7249 | 284.7709 | -182.9040 | 0.0000 |
| Beam 35: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -299.1683 | 239.9846 | -160.1919 | 0.0000 |
| Beam 35: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -348.5083 | 208.1847 | -209.4837 | 0.0000 |
| Beam 35: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -320.1474 | 202.2172 | -181.9054 | 0.0000 |
| Beam 35: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -180.7253 | 153.1415 | -92.0041 | 0.0000 |
| Beam 35: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -174.5378 | 151.0985 | -86.5741 | 0.0000 |
| Beam 35: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -213.8432 | 210.7493 | -56.0292 | 0.0000 |
| Beam 35: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -207.6557 | 208.7063 | -50.5992 | 0.0000 |
| Beam 35: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -207.3985 | 166.4305 | -84.2761 | 0.0000 |
| Beam 35: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -186.7733 | 159.6205 | -66.1761 | 0.0000 |
| Beam 35: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -217.3339 | 183.7128 | -73.4836 | 0.0000 |
| Beam 35: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -196.7087 | 176.9028 | -55.3836 | 0.0000 |
| Beam 35: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -176.8933 | 152.5951 | -88.0694 | 0.0000 |
| Beam 35: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -170.7057 | 150.5521 | -82.6394 | 0.0000 |
| Beam 35: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -210.0112 | 210.2030 | -52.0946 | 0.0000 |
| Beam 35: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -203.8236 | 208.1600 | -46.6646 | 0.0000 |
| Beam 35: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -203.5665 | 165.8841 | -80.3414 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 35: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -182.9413 | 159.0741 | -62.2414 |
| Beam 35: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -213.5018 | 183.1665 | -69.5490 |
| Beam 35: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -192.8767 | 176.3565 | -51.4490 |
| Beam 35: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -285.9219 | 299.8773 | -68.7972 |
| Beam 35: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -221.7527 | 221.1078 | -88.4681 |
| Beam 35: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -312.5557 | 215.2600 | -106.4812 |
| Beam 35: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -271.9566 | 290.4103 | -54.6227 |
| Beam 35: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -208.4259 | 213.8548 | -73.2473 |
| Beam 35: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -297.2275 | 213.0746 | -90.7425 |
| Beam 35: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -308.0883 | 220.5967 | -115.6200 |
| Beam 35: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -288.5291 | 216.4812 | -96.6004 |
| Beam 35: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -138.1283 | 152.3136 | -35.6563 |
| Beam 35: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -284.0475 | 217.8340 | -92.8824 |
| Beam 35: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -268.4001 | 214.5416 | -77.6668 |
| Beam 35: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 504.7988 | 354.7927 | 229.8014 |
| Beam 35: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 504.7988 | 354.7927 | 229.8014 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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| Beam 35: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 217.3339 | 210.7493 | 92.0041 | | |
| 0.0000 | | | | | | | |
| Beam 35: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 312.5557 | 299.8773 | 115.6200 | | |
| 0.0000 | | | | | | | |
| Beam 35: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 284.0475 | 217.8340 | 92.8824 | | |
| 0.0000 | | | | | | | |
| Beam 35: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 138.1283 | 152.3136 | 35.6563 | | |
| 0.0000 | | | | | | | |
| Beam 36: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | 288.3613 | 40.0208 | 0.0000 | |
| Beam 36: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 114.5366 | 4.5287 | 0.0000 | |
| Beam 36: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -15.4439 | -6.2634 | 0.0000 | |
| Beam 36: End 1: 4: SPTDX | 0.0000 | 0.0000 | 32.7811 | 14.7116 | 2.2072 | 0.0000 | |
| Beam 36: End 1: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -149.7166 | -57.5106 | 0.0000 | |
| Beam 36: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 118.9080 | -95.7180 | 0.0000 | |
| Beam 36: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 96.8280 | -77.9441 | 0.0000 | |
| Beam 36: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -17.0005 | -6.8328 | 0.0000 | |
| Beam 36: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 27.9821 | 18.9353 | 3.5426 | 0.0000 | |
| Beam 36: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -13.9010 | -5.5871 | 0.0000 | |
| Beam 36: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 22.8964 | 15.4840 | 2.8951 | 0.0000 | |
| Beam 36: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -46.3690 | -17.9723 | 0.0000 | |
| Beam 36: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -44.6820 | -17.3185 | 0.0000 | |
| Beam 36: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 36: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -44.4564 | 7.5707 | 0.0000 | |
| Beam 36: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 33.1941 | -5.6528 | 0.0000 | |
| Beam 36: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 118.9040 | 45.2878 | 0.0000 | |
| Beam 36: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 5.0871 | -62.3402 | -23.1060 | 0.0000 | |
| Beam 36: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 11.2426 | -9.0500 | 0.0000 | |
| Beam 36: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -17.8610 | -7.2211 | 0.0000 | |
| Beam 36: End 1: 21: SPSDX | 0.0000 | 0.0000 | 36.6661 | 20.3338 | 3.0160 | 0.0000 | |
| Beam 36: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -355.8457 | 491.1744 | -175.5042 | 0.0000 | |
| Beam 36: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -492.7908 | 733.5975 | -126.6598 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 36: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -334.9755 | 463.4243 | -185.7253 | 0.0000 |
| Beam 36: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -328.2603 | 433.3682 | -197.8251 | 0.0000 |
| Beam 36: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -378.4320 | 576.4459 | -144.5188 | 0.0000 |
| Beam 36: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -174.5342 | 333.3357 | -32.2017 | 0.0000 |
| Beam 36: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -363.2273 | 473.3790 | -204.6387 | 0.0000 |
| Beam 36: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -93.0135 | 169.9919 | -49.2458 | 0.0000 |
| Beam 36: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -344.0064 | 500.4254 | -171.7349 | 0.0000 |
| Beam 36: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -368.6081 | 643.1083 | -167.3532 | 0.0000 |
| Beam 36: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -428.0763 | 622.6054 | -184.9584 | 0.0000 |
| Beam 36: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -311.5198 | 489.2361 | -162.2463 | 0.0000 |
| Beam 36: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -328.0634 | 466.0989 | -146.9778 | 0.0000 |
| Beam 36: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -464.0017 | 704.0277 | -99.9396 | 0.0000 |
| Beam 36: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -306.1864 | 433.8545 | -159.0051 | 0.0000 |
| Beam 36: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -300.4780 | 408.2927 | -169.2987 | 0.0000 |
| Beam 36: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -350.6497 | 551.3703 | -115.9923 | 0.0000 |
| Beam 36: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -175.5409 | 337.8300 | -30.3955 | 0.0000 |
| Beam 36: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -335.4449 | 448.3035 | -176.1123 | 0.0000 |
| Beam 36: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -94.0202 | 174.4862 | -47.4396 | 0.0000 |
| Beam 36: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -315.6455 | 472.9037 | -144.1566 | 0.0000 |
| Beam 36: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -346.6147 | 606.0879 | -142.5199 | 0.0000 |
| Beam 36: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -399.5141 | 594.1849 | -157.7413 | 0.0000 |
| Beam 36: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -282.9575 | 460.8155 | -135.0292 | 0.0000 |
| Beam 36: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -336.5003 | 468.2088 | -184.3211 | 0.0000 |
| Beam 36: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -308.1394 | 440.6871 | -156.7428 | 0.0000 |
| Beam 36: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -154.7561 | 280.3453 | -73.3651 | 0.0000 |
| Beam 36: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -148.5686 | 273.5997 | -67.9351 | 0.0000 |
| Beam 36: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -197.6324 | 366.8309 | -37.3902 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 36: End 1: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -191.4449 | 360.0853 | -31.9602 |
| Beam 36: End 1: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -191.2022 | 317.6196 | -65.6371 |
| Beam 36: End 1: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -170.5770 | 295.1344 | -47.5371 |
| Beam 36: End 1: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -204.0650 | 343.5653 | -54.8446 |
| Beam 36: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -183.4399 | 321.0801 | -36.7446 |
| Beam 36: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -150.9241 | 276.8866 | -69.4304 |
| Beam 36: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -144.7365 | 270.1410 | -64.0004 |
| Beam 36: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -193.8004 | 363.3722 | -33.4556 |
| Beam 36: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -187.6128 | 356.6266 | -28.0256 |
| Beam 36: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -187.3701 | 314.1609 | -61.7024 |
| Beam 36: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -166.7449 | 291.6757 | -43.6024 |
| Beam 36: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -200.2330 | 340.1066 | -50.9100 |
| Beam 36: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -179.6078 | 317.6214 | -32.8100 |
| Beam 36: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -262.5443 | 508.0153 | -50.1582 |
| Beam 36: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -198.3751 | 380.4772 | -69.8291 |
| Beam 36: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -302.9493 | 448.9285 | -87.8422 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 36: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -250.6462 | 488.7202 | -35.9837 | |
| Beam 36: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -187.1155 | 363.8814 | -54.6083 | |
| Beam 36: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -287.6211 | 435.0938 | -72.1035 | |
| Beam 36: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -298.4819 | 450.8701 | -96.9810 | |
| Beam 36: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -278.9227 | 431.8896 | -77.9614 | |
| Beam 36: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -126.1203 | 252.4489 | -17.0173 | |
| Beam 36: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -274.4411 | 429.8363 | -74.2434 | |
| Beam 36: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -258.7937 | 414.6519 | -59.0278 | |
| Beam 36: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 492.7908 | 733.5975 | 204.6387 | |
| Beam 36: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 492.7908 | 733.5975 | 204.6387 | |
| Beam 36: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 204.0650 | 366.8309 | 73.3651 | |
| Beam 36: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 302.9493 | 508.0153 | 96.9810 | |
| Beam 36: End 1: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 274.4411 | 429.8363 | 74.2434 | |
| Beam 36: End 1: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 126.1203 | 252.4489 | 17.0173 | |
| Beam 36: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | 222.8383 | 30.7013 | 0.0000 |
| Beam 36: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 89.7272 | 4.5287 | 0.0000 |
| Beam 36: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -14.1478 | -6.2634 | 0.0000 |
| Beam 36: End 2: 4: SPTDX | 0.0000 | 0.0000 | 27.3281 | 26.1672 | 2.2072 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|-----------|--------|--|
| Beam 36: End 2: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -121.0629 | -57.5106 | 0.0000 | |
| Beam 36: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 77.4607 | -95.7180 | 0.0000 | |
| Beam 36: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 63.0770 | -77.9441 | 0.0000 | |
| Beam 36: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -15.5535 | -6.8328 | 0.0000 | |
| Beam 36: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 20.8761 | 28.2183 | 3.5426 | 0.0000 | |
| Beam 36: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -12.7178 | -5.5871 | 0.0000 | |
| Beam 36: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 17.0824 | 23.0800 | 2.8951 | 0.0000 | |
| Beam 36: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -42.2017 | -17.9723 | 0.0000 | |
| Beam 36: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -40.6663 | -17.3185 | 0.0000 | |
| Beam 36: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 36: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -29.6926 | 7.5707 | 0.0000 | |
| Beam 36: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 22.1705 | -5.6528 | 0.0000 | |
| Beam 36: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 98.7099 | 45.2878 | 0.0000 | |
| Beam 36: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 7.1885 | -60.0079 | -23.1060 | 0.0000 | |
| Beam 36: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 7.3238 | -9.0500 | 0.0000 | |
| Beam 36: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -16.3547 | -7.2211 | 0.0000 | |
| Beam 36: End 2: 21: SPSDX | 0.0000 | 0.0000 | 27.5841 | 32.5413 | 3.0160 | 0.0000 | |
| Beam 36: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -361.2987 | 354.9519 | -188.0855 | 0.0000 | |
| Beam 36: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -498.2438 | 545.3359 | -139.2411 | 0.0000 | |
| Beam 36: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -340.4285 | 335.1325 | -198.3067 | 0.0000 | |
| Beam 36: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -333.7133 | 307.6281 | -210.4064 | 0.0000 | |
| Beam 36: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -385.7936 | 431.2901 | -157.1001 | 0.0000 | |
| Beam 36: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -181.8957 | 265.6612 | -44.7830 | 0.0000 | |
| Beam 36: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -368.6803 | 334.3515 | -217.2200 | 0.0000 | |
| Beam 36: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -98.4665 | 133.6456 | -58.5653 | 0.0000 | |
| Beam 36: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -349.4594 | 368.7018 | -184.3162 | 0.0000 | |
| Beam 36: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -386.2733 | 499.7279 | -179.9345 | 0.0000 | |
| Beam 36: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -435.4379 | 458.5849 | -197.5397 | 0.0000 | |
| Beam 36: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -318.8813 | 369.5070 | -174.8276 | 0.0000 | |
| Beam 36: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -333.5164 | 340.4336 | -159.5591 | 0.0000 | |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 36: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -469.4547 | 526.7059 | -112.5209 | 0.0000 |
| Beam 36: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -311.6394 | 316.5025 | -171.5864 | 0.0000 |
| Beam 36: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -305.9310 | 293.1099 | -181.8800 | 0.0000 |
| Beam 36: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -358.0112 | 416.7719 | -128.5737 | 0.0000 |
| Beam 36: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -182.9025 | 269.7729 | -42.9768 | 0.0000 |
| Beam 36: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -340.8979 | 319.8332 | -188.6936 | 0.0000 |
| Beam 36: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -99.4732 | 137.7574 | -56.7591 | 0.0000 |
| Beam 36: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -321.0985 | 351.9572 | -156.7380 | 0.0000 |
| Beam 36: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -362.4065 | 471.4210 | -155.1012 | 0.0000 |
| Beam 36: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -406.8756 | 441.0179 | -170.3226 | 0.0000 |
| Beam 36: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -290.3191 | 351.9401 | -147.6105 | 0.0000 |
| Beam 36: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -341.9533 | 339.3375 | -196.9024 | 0.0000 |
| Beam 36: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -313.5924 | 322.5929 | -169.3241 | 0.0000 |
| Beam 36: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -167.1897 | 219.2105 | -82.6846 | 0.0000 |
| Beam 36: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -161.0022 | 214.8162 | -77.2546 | 0.0000 |
| Beam 36: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -205.1868 | 290.3301 | -46.7097 | 0.0000 |
| Beam 36: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -198.9993 | 285.9358 | -41.2797 | 0.0000 |
| Beam 36: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -198.7493 | 243.5637 | -74.9566 | 0.0000 |
| Beam 36: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -178.1242 | 228.9161 | -56.8566 | 0.0000 |
| Beam 36: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -210.1485 | 264.8996 | -64.1641 | 0.0000 |
| Beam 36: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -189.5233 | 250.2520 | -46.0641 | 0.0000 |
| Beam 36: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -163.3577 | 217.2079 | -78.7499 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|-----------|
| Beam 36: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -157.1701 | 212.8137 | -73.3199 |
| Beam 36: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -201.3548 | 288.3276 | -42.7751 |
| Beam 36: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -195.1672 | 283.9333 | -37.3451 |
| Beam 36: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -194.9173 | 241.5612 | -71.0219 |
| Beam 36: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -174.2921 | 226.9136 | -52.9219 |
| Beam 36: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -206.3164 | 262.8971 | -60.2295 |
| Beam 36: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -185.6912 | 248.2495 | -42.1295 |
| Beam 36: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -273.6821 | 406.1672 | -59.4777 |
| Beam 36: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -209.5129 | 303.0133 | -79.1486 |
| Beam 36: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -307.3117 | 333.0069 | -97.1617 |
| Beam 36: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -260.7504 | 391.5898 | -45.3032 |
| Beam 36: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -197.2197 | 290.8926 | -63.9278 |
| Beam 36: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -291.9835 | 324.9968 | -81.4230 |
| Beam 36: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -302.8443 | 336.6460 | -106.3005 |
| Beam 36: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -283.2851 | 325.0980 | -87.2809 |
| Beam 36: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -131.5733 | 203.5220 | -26.3368 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|-----------|----------|--------|
| Beam 36: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -278.8035 | 324.7478 | -83.5629 | |
| 0.0000 | | | | | | |
| Beam 36: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -263.1561 | 315.5094 | -68.3473 | |
| 0.0000 | | | | | | |
| Beam 36: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 498.2438 | 545.3359 | 217.2200 | |
| 0.0000 | | | | | | |
| Beam 36: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 498.2438 | 545.3359 | 217.2200 | |
| 0.0000 | | | | | | |
| Beam 36: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 210.1485 | 290.3301 | 82.6846 | |
| 0.0000 | | | | | | |
| Beam 36: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 307.3117 | 406.1672 | 106.3005 | |
| 0.0000 | | | | | | |
| Beam 36: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 278.8035 | 324.7478 | 83.5629 | |
| 0.0000 | | | | | | |
| Beam 36: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 131.5733 | 203.5220 | 26.3368 | |
| 0.0000 | | | | | | |
| Beam 37: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | 331.4685 | 46.1520 | 0.0000 |
| Beam 37: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 130.8586 | 4.5287 | 0.0000 |
| Beam 37: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -16.2966 | -6.2634 | 0.0000 |
| Beam 37: End 1: 4: SPTDX | 0.0000 | 0.0000 | 35.7686 | 6.1329 | 2.2072 | 0.0000 |
| Beam 37: End 1: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -168.5678 | -57.5106 | 0.0000 |
| Beam 37: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 146.1760 | -95.7180 | 0.0000 |
| Beam 37: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 119.0325 | -77.9441 | 0.0000 |
| Beam 37: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -17.9525 | -6.8328 | 0.0000 |
| Beam 37: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 32.6571 | 11.3554 | 3.5426 | 0.0000 |
| Beam 37: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -14.6794 | -5.5871 | 0.0000 |
| Beam 37: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 26.7214 | 9.2817 | 2.8951 | 0.0000 |
| Beam 37: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -49.1106 | -17.9723 | 0.0000 |
| Beam 37: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -47.3239 | -17.3185 | 0.0000 |
| Beam 37: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 37: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -54.1695 | 7.5707 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|-----------|--------|--|
| Beam 37: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 40.4466 | -5.6528 | 0.0000 | |
| Beam 37: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 132.1896 | 45.2878 | 0.0000 | |
| Beam 37: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 3.7046 | -63.4392 | -23.1060 | 0.0000 | |
| Beam 37: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 13.8207 | -9.0500 | 0.0000 | |
| Beam 37: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -18.8520 | -7.2211 | 0.0000 | |
| Beam 37: End 1: 21: SPSDX | 0.0000 | 0.0000 | 42.6411 | 10.4204 | 3.0160 | 0.0000 | |
| Beam 37: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -352.8582 | 579.7525 | -167.2270 | 0.0000 | |
| Beam 37: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -489.8033 | 856.4119 | -118.3826 | 0.0000 | |
| Beam 37: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -331.9880 | 546.7849 | -177.4482 | 0.0000 | |
| Beam 37: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -325.2728 | 515.0500 | -189.5479 | 0.0000 | |
| Beam 37: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -374.3989 | 670.5364 | -136.2416 | 0.0000 | |
| Beam 37: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -170.5010 | 376.4518 | -23.9245 | 0.0000 | |
| Beam 37: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -360.2398 | 563.8025 | -196.3615 | 0.0000 | |
| Beam 37: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -90.0260 | 192.8620 | -43.1145 | 0.0000 | |
| Beam 37: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -341.0189 | 586.0437 | -163.4577 | 0.0000 | |
| Beam 37: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -357.7962 | 733.8955 | -159.0760 | 0.0000 | |
| Beam 37: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -424.0432 | 729.1070 | -176.6812 | 0.0000 | |
| Beam 37: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -307.4866 | 566.5986 | -153.9691 | 0.0000 | |
| Beam 37: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -325.0759 | 547.7314 | -138.7006 | 0.0000 | |
| Beam 37: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -461.0142 | 819.6448 | -91.6624 | 0.0000 | |
| Beam 37: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -303.1989 | 510.0177 | -150.7279 | 0.0000 | |
| Beam 37: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -297.4905 | 483.0288 | -161.0215 | 0.0000 | |
| Beam 37: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -346.6166 | 638.5153 | -107.7151 | 0.0000 | |
| Beam 37: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -171.5078 | 381.1977 | -22.1183 | 0.0000 | |
| Beam 37: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -332.4574 | 531.7814 | -167.8351 | 0.0000 | |
| Beam 37: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -91.0327 | 197.6079 | -41.3083 | 0.0000 | |
| Beam 37: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -312.6580 | 551.4317 | -135.8794 | 0.0000 | |
| Beam 37: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -337.0353 | 691.5308 | -134.2427 | 0.0000 | |
| Beam 37: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -395.4810 | 693.5459 | -149.4641 | 0.0000 | |
| Beam 37: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -278.9244 | 531.0374 | -126.7520 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 37: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -333.5128 | 551.9506 | -176.0439 | 0.0000 |
| Beam 37: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -305.1519 | 517.3386 | -148.4656 | 0.0000 |
| Beam 37: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -147.1761 | 318.0769 | -67.2338 | 0.0000 |
| Beam 37: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -140.9886 | 309.7845 | -61.8038 | 0.0000 |
| Beam 37: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -193.2624 | 415.6828 | -31.2590 | 0.0000 |
| Beam 37: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -187.0749 | 407.3904 | -25.8290 | 0.0000 |
| Beam 37: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -186.8369 | 364.8646 | -59.5058 | 0.0000 |
| Beam 37: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -166.2117 | 337.2231 | -41.4058 | 0.0000 |
| Beam 37: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -200.6628 | 394.1463 | -48.7134 | 0.0000 |
| Beam 37: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -180.0376 | 366.5049 | -30.6134 | 0.0000 |
| Beam 37: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -143.3441 | 313.6602 | -63.2991 | 0.0000 |
| Beam 37: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -137.1565 | 305.3678 | -57.8691 | 0.0000 |
| Beam 37: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -189.4304 | 411.2661 | -27.3243 | 0.0000 |
| Beam 37: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -183.2428 | 402.9737 | -21.8943 | 0.0000 |
| Beam 37: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -183.0049 | 360.4479 | -55.5712 | 0.0000 |
| Beam 37: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -162.3797 | 332.8064 | -37.4712 | 0.0000 |
| Beam 37: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -196.8307 | 389.7296 | -44.7787 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 37: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -176.2056 | 362.0882 | -26.6787 |
| Beam 37: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -255.8168 | 572.8005 | -44.0270 |
| Beam 37: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -191.6476 | 429.2201 | -63.6979 |
| Beam 37: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -300.5593 | 524.3592 | -81.7110 |
| Beam 37: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -244.5987 | 550.6160 | -29.8524 |
| Beam 37: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -181.0680 | 409.8944 | -48.4771 |
| Beam 37: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -285.2311 | 506.6924 | -65.9723 |
| Beam 37: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -296.0919 | 525.1839 | -90.8497 |
| Beam 37: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -276.5327 | 501.3136 | -71.8302 |
| Beam 37: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -123.1328 | 283.5956 | -10.8861 |
| Beam 37: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -272.0511 | 498.1399 | -68.1122 |
| Beam 37: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -256.4037 | 479.0437 | -52.8966 |
| Beam 37: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 489.8033 | 856.4119 | 196.3615 |
| Beam 37: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 489.8033 | 856.4119 | 196.3615 |
| Beam 37: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 200.6628 | 415.6828 | 67.2338 |
| Beam 37: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 300.5593 | 572.8005 | 90.8497 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|-----------|-----------|--------|
| Beam 37: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 272.0511 | 498.1399 | 68.1122 | |
| 0.0000 | | | | | | |
| Beam 37: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 123.1328 | 283.5956 | 10.8861 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | 288.3613 | 40.0208 | 0.0000 |
| Beam 37: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 114.5366 | 4.5287 | 0.0000 |
| Beam 37: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -15.4439 | -6.2634 | 0.0000 |
| Beam 37: End 2: 4: SPTDX | 0.0000 | 0.0000 | 32.7811 | 14.7116 | 2.2072 | 0.0000 |
| Beam 37: End 2: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -149.7166 | -57.5106 | 0.0000 |
| Beam 37: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 118.9080 | -95.7180 | 0.0000 |
| Beam 37: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 96.8280 | -77.9441 | 0.0000 |
| Beam 37: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -17.0005 | -6.8328 | 0.0000 |
| Beam 37: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 27.9821 | 18.9353 | 3.5426 | 0.0000 |
| Beam 37: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -13.9010 | -5.5871 | 0.0000 |
| Beam 37: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 22.8964 | 15.4840 | 2.8951 | 0.0000 |
| Beam 37: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -46.3690 | -17.9723 | 0.0000 |
| Beam 37: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -44.6820 | -17.3185 | 0.0000 |
| Beam 37: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 37: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -44.4564 | 7.5707 | 0.0000 |
| Beam 37: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 33.1941 | -5.6528 | 0.0000 |
| Beam 37: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 118.9040 | 45.2878 | 0.0000 |
| Beam 37: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 5.0871 | -62.3402 | -23.1060 | 0.0000 |
| Beam 37: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 11.2426 | -9.0500 | 0.0000 |
| Beam 37: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -17.8610 | -7.2211 | 0.0000 |
| Beam 37: End 2: 21: SPSDX | 0.0000 | 0.0000 | 36.6661 | 20.3338 | 3.0160 | 0.0000 |
| Beam 37: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -355.8457 | 491.1744 | -175.5042 | 0.0000 |
| Beam 37: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -492.7908 | 733.5975 | -126.6598 | 0.0000 |
| Beam 37: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -334.9755 | 463.4243 | -185.7253 | 0.0000 |
| Beam 37: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -328.2603 | 433.3682 | -197.8251 | 0.0000 |
| Beam 37: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -378.4320 | 576.4459 | -144.5188 | 0.0000 |
| Beam 37: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -174.5342 | 333.3357 | -32.2017 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |



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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 37: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -363.2273 | 473.3790 | -204.6387 | 0.0000 |
| Beam 37: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -93.0135 | 169.9919 | -49.2458 | 0.0000 |
| Beam 37: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -344.0064 | 500.4254 | -171.7349 | 0.0000 |
| Beam 37: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -368.6081 | 643.1083 | -167.3532 | 0.0000 |
| Beam 37: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -428.0763 | 622.6054 | -184.9584 | 0.0000 |
| Beam 37: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -311.5198 | 489.2361 | -162.2463 | 0.0000 |
| Beam 37: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -328.0634 | 466.0989 | -146.9778 | 0.0000 |
| Beam 37: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -464.0017 | 704.0277 | -99.9396 | 0.0000 |
| Beam 37: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -306.1864 | 433.8545 | -159.0051 | 0.0000 |
| Beam 37: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -300.4780 | 408.2927 | -169.2987 | 0.0000 |
| Beam 37: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -350.6497 | 551.3703 | -115.9923 | 0.0000 |
| Beam 37: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -175.5409 | 337.8300 | -30.3955 | 0.0000 |
| Beam 37: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -335.4449 | 448.3035 | -176.1123 | 0.0000 |
| Beam 37: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -94.0202 | 174.4862 | -47.4396 | 0.0000 |
| Beam 37: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -315.6455 | 472.9037 | -144.1566 | 0.0000 |
| Beam 37: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -346.6147 | 606.0879 | -142.5199 | 0.0000 |
| Beam 37: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -399.5141 | 594.1849 | -157.7413 | 0.0000 |
| Beam 37: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -282.9575 | 460.8155 | -135.0292 | 0.0000 |
| Beam 37: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -336.5003 | 468.2088 | -184.3211 | 0.0000 |
| Beam 37: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -308.1394 | 440.6871 | -156.7428 | 0.0000 |
| Beam 37: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -154.7561 | 280.3453 | -73.3651 | 0.0000 |
| Beam 37: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -148.5686 | 273.5997 | -67.9351 | 0.0000 |
| Beam 37: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -197.6324 | 366.8309 | -37.3902 | 0.0000 |
| Beam 37: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -191.4449 | 360.0853 | -31.9602 | 0.0000 |
| Beam 37: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -191.2022 | 317.6196 | -65.6371 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|----------|
| Beam 37: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -170.5770 | 295.1344 | -47.5371 |
| Beam 37: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -204.0650 | 343.5653 | -54.8446 |
| Beam 37: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -183.4399 | 321.0801 | -36.7446 |
| Beam 37: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -150.9241 | 276.8866 | -69.4304 |
| Beam 37: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -144.7365 | 270.1410 | -64.0004 |
| Beam 37: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -193.8004 | 363.3722 | -33.4556 |
| Beam 37: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -187.6128 | 356.6266 | -28.0256 |
| Beam 37: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -187.3701 | 314.1609 | -61.7024 |
| Beam 37: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -166.7449 | 291.6757 | -43.6024 |
| Beam 37: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -200.2330 | 340.1066 | -50.9100 |
| Beam 37: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -179.6078 | 317.6214 | -32.8100 |
| Beam 37: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -262.5443 | 508.0153 | -50.1582 |
| Beam 37: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -198.3751 | 380.4772 | -69.8291 |
| Beam 37: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -302.9493 | 448.9285 | -87.8422 |
| Beam 37: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -250.6462 | 488.7202 | -35.9837 |
| Beam 37: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -187.1155 | 363.8814 | -54.6083 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|---|--------|--------|-----------|-----------|----------|--------|
| Beam 37: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -287.6211 | 435.0938 | -72.1035 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -298.4819 | 450.8701 | -96.9810 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -278.9227 | 431.8896 | -77.9614 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -126.1203 | 252.4489 | -17.0173 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -274.4411 | 429.8363 | -74.2434 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -258.7937 | 414.6519 | -59.0278 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 492.7908 | 733.5975 | 204.6387 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 492.7908 | 733.5975 | 204.6387 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 204.0650 | 366.8309 | 73.3651 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 302.9493 | 508.0153 | 96.9810 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 274.4411 | 429.8363 | 74.2434 | |
| 0.0000 | | | | | | |
| Beam 37: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 126.1203 | 252.4489 | 17.0173 | |
| 0.0000 | | | | | | |
| Beam 38: End 1: 1: PP | 0.0000 | 0.0000 | -172.4289 | 374.5757 | 52.2833 | 0.0000 |
| Beam 38: End 1: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 147.1806 | 4.5287 | 0.0000 |
| Beam 38: End 1: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -17.1493 | -6.2634 | 0.0000 |
| Beam 38: End 1: 4: SPTDX | 0.0000 | 0.0000 | 38.2724 | -3.1324 | 2.2072 | 0.0000 |
| Beam 38: End 1: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -187.4190 | -57.5106 | 0.0000 |
| Beam 38: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 173.4439 | -95.7180 | 0.0000 |
| Beam 38: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 141.2371 | -77.9441 | 0.0000 |
| Beam 38: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -18.9044 | -6.8328 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 38: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 37.3321 | 2.6067 | 3.5426 | 0.0000 |
| Beam 38: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -15.4578 | -5.5871 | 0.0000 |
| Beam 38: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 30.5464 | 2.1232 | 2.8951 | 0.0000 |
| Beam 38: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -51.8523 | -17.9723 | 0.0000 |
| Beam 38: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -49.9657 | -17.3185 | 0.0000 |
| Beam 38: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 38: End 1: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -63.8825 | 7.5707 | 0.0000 |
| Beam 38: End 1: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 47.6990 | -5.6528 | 0.0000 |
| Beam 38: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 145.4752 | 45.2878 | 0.0000 |
| Beam 38: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 2.3221 | -64.1925 | -23.1060 | 0.0000 |
| Beam 38: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 16.3989 | -9.0500 | 0.0000 |
| Beam 38: End 1: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -19.8430 | -7.2211 | 0.0000 |
| Beam 38: End 1: 21: SPSDX | 0.0000 | 0.0000 | 48.6161 | -0.9867 | 3.0160 | 0.0000 |
| Beam 38: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -350.3544 | 667.6438 | -158.9498 | 0.0000 |
| Beam 38: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -487.2995 | 978.5395 | -110.1054 | 0.0000 |
| Beam 38: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -329.4843 | 629.4586 | -169.1710 | 0.0000 |
| Beam 38: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -322.7690 | 596.0449 | -181.2707 | 0.0000 |
| Beam 38: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -371.0188 | 763.6998 | -127.9644 | 0.0000 |
| Beam 38: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -167.1210 | 418.6407 | -15.6473 | 0.0000 |
| Beam 38: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -357.7360 | 653.5392 | -188.0843 | 0.0000 |
| Beam 38: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -87.5222 | 215.0452 | -36.9833 | 0.0000 |
| Beam 38: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -338.5151 | 670.9752 | -155.1805 | 0.0000 |
| Beam 38: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -347.6374 | 822.0608 | -150.7988 | 0.0000 |
| Beam 38: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -420.6631 | 834.6815 | -168.4040 | 0.0000 |
| Beam 38: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -304.1066 | 643.0339 | -145.6919 | 0.0000 |
| Beam 38: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -322.5721 | 628.6771 | -130.4234 | 0.0000 |
| Beam 38: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -458.5104 | 934.5751 | -83.3852 | 0.0000 |
| Beam 38: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -300.6951 | 585.4942 | -142.4507 | 0.0000 |
| Beam 38: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -294.9867 | 557.0782 | -152.7443 | 0.0000 |
| Beam 38: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -343.2365 | 724.7330 | -99.4380 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|-----------|--------|
| Beam 38: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -168.1278 | 423.6383 | -13.8411 | 0.0000 |
| Beam 38: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -329.9537 | 614.5725 | -159.5579 | 0.0000 |
| Beam 38: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -88.5290 | 220.0429 | -35.1771 | 0.0000 |
| Beam 38: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -310.1543 | 629.2730 | -127.6023 | 0.0000 |
| Beam 38: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -328.1090 | 774.6600 | -125.9655 | 0.0000 |
| Beam 38: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -392.1009 | 791.9798 | -141.1869 | 0.0000 |
| Beam 38: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -275.5444 | 600.3322 | -118.4748 | 0.0000 |
| Beam 38: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -331.0091 | 635.0055 | -167.7667 | 0.0000 |
| Beam 38: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -302.6482 | 593.3034 | -140.1884 | 0.0000 |
| Beam 38: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -140.0799 | 353.9737 | -61.1026 | 0.0000 |
| Beam 38: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -133.8923 | 344.1343 | -55.6726 | 0.0000 |
| Beam 38: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -189.3762 | 463.5024 | -25.1277 | 0.0000 |
| Beam 38: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -183.1886 | 453.6631 | -19.6977 | 0.0000 |
| Beam 38: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -182.9554 | 411.0783 | -53.3746 | 0.0000 |
| Beam 38: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -162.3302 | 378.2806 | -35.2746 | 0.0000 |
| Beam 38: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -197.7443 | 443.9370 | -42.5821 | 0.0000 |
| Beam 38: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -177.1191 | 411.1392 | -24.4821 | 0.0000 |
| Beam 38: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -136.2478 | 348.5989 | -57.1679 | 0.0000 |
| Beam 38: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -130.0603 | 338.7596 | -51.7379 | 0.0000 |
| Beam 38: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -185.5441 | 458.1277 | -21.1931 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|----------|
| Beam 38: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -179.3566 | 448.2884 | -15.7631 |
| Beam 38: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -179.1234 | 405.7036 | -49.4399 |
| Beam 38: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -158.4982 | 372.9059 | -31.3399 |
| Beam 38: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -193.9122 | 438.5622 | -38.6475 |
| Beam 38: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -173.2871 | 405.7645 | -20.5475 |
| Beam 38: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -249.5730 | 635.9640 | -37.8957 |
| Beam 38: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -185.4039 | 476.3413 | -57.5666 |
| Beam 38: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -298.5563 | 599.2404 | -75.5797 |
| Beam 38: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -239.0350 | 611.0599 | -23.7212 |
| Beam 38: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -175.5042 | 454.4557 | -42.3458 |
| Beam 38: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -283.2281 | 577.7416 | -59.8410 |
| Beam 38: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -294.0889 | 598.9483 | -84.7185 |
| Beam 38: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -274.5297 | 570.1882 | -65.6989 |
| Beam 38: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -120.6291 | 314.0556 | -4.7548 |
| Beam 38: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -270.0481 | 565.8941 | -61.9809 |
| Beam 38: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -254.4007 | 542.8860 | -46.7653 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|-----------|-----------|----------|--------|
| Beam 38: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 487.2995 | 978.5395 | 188.0843 | 0.0000 |
| Beam 38: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 487.2995 | 978.5395 | 188.0843 | 0.0000 |
| Beam 38: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 197.7443 | 463.5024 | 61.1026 | 0.0000 |
| Beam 38: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 298.5563 | 635.9640 | 84.7185 | 0.0000 |
| Beam 38: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 270.0481 | 565.8941 | 61.9809 | 0.0000 |
| Beam 38: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 120.6291 | 314.0556 | 4.7548 | 0.0000 |
| Beam 38: End 2: 1: PP | 0.0000 | 0.0000 | -172.4289 | 331.4685 | 46.1520 | 0.0000 |
| Beam 38: End 2: 2: PERM | 0.0000 | 0.0000 | -65.2880 | 130.8586 | 4.5287 | 0.0000 |
| Beam 38: End 2: 3: SPTSX | 0.0000 | 0.0000 | 3.4108 | -16.2966 | -6.2634 | 0.0000 |
| Beam 38: End 2: 4: SPTDX | 0.0000 | 0.0000 | 35.7686 | 6.1329 | 2.2072 | 0.0000 |
| Beam 38: End 2: 5: SPTW | 0.0000 | 0.0000 | 75.4046 | -168.5678 | -57.5106 | 0.0000 |
| Beam 38: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -109.0719 | 146.1760 | -95.7180 | 0.0000 |
| Beam 38: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -88.8183 | 119.0325 | -77.9441 | 0.0000 |
| Beam 38: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 3.8079 | -17.9525 | -6.8328 | 0.0000 |
| Beam 38: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 32.6571 | 11.3554 | 3.5426 | 0.0000 |
| Beam 38: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 3.1136 | -14.6794 | -5.5871 | 0.0000 |
| Beam 38: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 26.7214 | 9.2817 | 2.8951 | 0.0000 |
| Beam 38: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 10.9666 | -49.1106 | -17.9723 | 0.0000 |
| Beam 38: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 10.5676 | -47.3239 | -17.3185 | 0.0000 |
| Beam 38: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 38: End 2: 15: TERM | 0.0000 | 0.0000 | 38.8522 | -54.1695 | 7.5707 | 0.0000 |
| Beam 38: End 2: 16: RITIRO | 0.0000 | 0.0000 | -29.0096 | 40.4466 | -5.6528 | 0.0000 |
| Beam 38: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -53.1424 | 132.1896 | 45.2878 | 0.0000 |
| Beam 38: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 3.7046 | -63.4392 | -23.1060 | 0.0000 |
| Beam 38: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -10.3126 | 13.8207 | -9.0500 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|-----------|--------|--|
| Beam 38: End 2: 20: SPSSX | 0.0000 | 0.0000 | 3.9639 | -18.8520 | -7.2211 | 0.0000 | |
| Beam 38: End 2: 21: SPSPDX | 0.0000 | 0.0000 | 42.6411 | 10.4204 | 3.0160 | 0.0000 | |
| Beam 38: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -352.8582 | 579.7525 | -167.2270 | 0.0000 | |
| Beam 38: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -489.8033 | 856.4119 | -118.3826 | 0.0000 | |
| Beam 38: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -331.9880 | 546.7849 | -177.4482 | 0.0000 | |
| Beam 38: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -325.2728 | 515.0500 | -189.5479 | 0.0000 | |
| Beam 38: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -374.3989 | 670.5364 | -136.2416 | 0.0000 | |
| Beam 38: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -170.5010 | 376.4518 | -23.9245 | 0.0000 | |
| Beam 38: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -360.2398 | 563.8025 | -196.3615 | 0.0000 | |
| Beam 38: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -90.0260 | 192.8620 | -43.1145 | 0.0000 | |
| Beam 38: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -341.0189 | 586.0437 | -163.4577 | 0.0000 | |
| Beam 38: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -357.7962 | 733.8955 | -159.0760 | 0.0000 | |
| Beam 38: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -424.0432 | 729.1070 | -176.6812 | 0.0000 | |
| Beam 38: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -307.4866 | 566.5986 | -153.9691 | 0.0000 | |
| Beam 38: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -325.0759 | 547.7314 | -138.7006 | 0.0000 | |
| Beam 38: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -461.0142 | 819.6448 | -91.6624 | 0.0000 | |
| Beam 38: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -303.1989 | 510.0177 | -150.7279 | 0.0000 | |
| Beam 38: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -297.4905 | 483.0288 | -161.0215 | 0.0000 | |
| Beam 38: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -346.6166 | 638.5153 | -107.7151 | 0.0000 | |
| Beam 38: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -171.5078 | 381.1977 | -22.1183 | 0.0000 | |
| Beam 38: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -332.4574 | 531.7814 | -167.8351 | 0.0000 | |
| Beam 38: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -91.0327 | 197.6079 | -41.3083 | 0.0000 | |
| Beam 38: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -312.6580 | 551.4317 | -135.8794 | 0.0000 | |
| Beam 38: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -337.0353 | 691.5308 | -134.2427 | 0.0000 | |
| Beam 38: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -395.4810 | 693.5459 | -149.4641 | 0.0000 | |
| Beam 38: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -278.9244 | 531.0374 | -126.7520 | 0.0000 | |
| Beam 38: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -333.5128 | 551.9506 | -176.0439 | 0.0000 | |
| Beam 38: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -305.1519 | 517.3386 | -148.4656 | 0.0000 | |
| Beam 38: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -147.1761 | 318.0769 | -67.2338 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 38: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | -140.9886 | 309.7845 | -61.8038 |
| Beam 38: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | -193.2624 | 415.6828 | -31.2590 |
| Beam 38: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -187.0749 | 407.3904 | -25.8290 |
| Beam 38: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -186.8369 | 364.8646 | -59.5058 |
| Beam 38: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -166.2117 | 337.2231 | -41.4058 |
| Beam 38: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -200.6628 | 394.1463 | -48.7134 |
| Beam 38: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -180.0376 | 366.5049 | -30.6134 |
| Beam 38: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -143.3441 | 313.6602 | -63.2991 |
| Beam 38: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -137.1565 | 305.3678 | -57.8691 |
| Beam 38: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -189.4304 | 411.2661 | -27.3243 |
| Beam 38: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -183.2428 | 402.9737 | -21.8943 |
| Beam 38: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -183.0049 | 360.4479 | -55.5712 |
| Beam 38: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -162.3797 | 332.8064 | -37.4712 |
| Beam 38: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -196.8307 | 389.7296 | -44.7787 |
| Beam 38: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -176.2056 | 362.0882 | -26.6787 |
| Beam 38: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -255.8168 | 572.8005 | -44.0270 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 38: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -191.6476 | 429.2201 | -63.6979 |
| Beam 38: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -300.5593 | 524.3592 | -81.7110 |
| Beam 38: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -244.5987 | 550.6160 | -29.8524 |
| Beam 38: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -181.0680 | 409.8944 | -48.4771 |
| Beam 38: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -285.2311 | 506.6924 | -65.9723 |
| Beam 38: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -296.0919 | 525.1839 | -90.8497 |
| Beam 38: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -276.5327 | 501.3136 | -71.8302 |
| Beam 38: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -123.1328 | 283.5956 | -10.8861 |
| Beam 38: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -272.0511 | 498.1399 | -68.1122 |
| Beam 38: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -256.4037 | 479.0437 | -52.8966 |
| Beam 38: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 489.8033 | 856.4119 | 196.3615 |
| Beam 38: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 489.8033 | 856.4119 | 196.3615 |
| Beam 38: End 2: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 200.6628 | 415.6828 | 67.2338 |
| Beam 38: End 2: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 300.5593 | 572.8005 | 90.8497 |
| Beam 38: End 2: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 272.0511 | 498.1399 | 68.1122 |
| Beam 38: End 2: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 123.1328 | 283.5956 | 10.8861 |
| Beam 39: End 1: 1: PP | 0.0000 | 0.0000 | -52.2833 | 374.5757 | 172.4289 |
| | | | | 0.0000 | |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|-----------|----------|--------|
| Beam 39: End 1: 2: PERM | 0.0000 | 0.0000 | -11.2787 | 147.1806 | 65.2880 | 0.0000 |
| Beam 39: End 1: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -3.1324 | -41.8324 | 0.0000 |
| Beam 39: End 1: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | -17.1493 | -3.4108 | 0.0000 |
| Beam 39: End 1: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | -187.4190 | -75.4046 | 0.0000 |
| Beam 39: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 95.7180 | 173.4439 | 109.0719 | 0.0000 |
| Beam 39: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 77.9441 | 141.2371 | 88.8183 | 0.0000 |
| Beam 39: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | 2.6067 | -46.7021 | 0.0000 |
| Beam 39: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | -18.9044 | -3.8079 | 0.0000 |
| Beam 39: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | 2.1232 | -38.1864 | 0.0000 |
| Beam 39: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | -15.4578 | -3.1136 | 0.0000 |
| Beam 39: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 51.8523 | 10.9666 | 0.0000 |
| Beam 39: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 49.9657 | 10.5676 | 0.0000 |
| Beam 39: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 39: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -63.8825 | -38.8522 | 0.0000 |
| Beam 39: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 47.6990 | 29.0096 | 0.0000 |
| Beam 39: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 145.4752 | 53.1424 | 0.0000 |
| Beam 39: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 64.1925 | 2.3221 | 0.0000 |
| Beam 39: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 9.0500 | 16.3989 | 10.3126 | 0.0000 |
| Beam 39: End 1: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -0.9867 | -48.6161 | 0.0000 |
| Beam 39: End 1: 21: SPSSDX | 0.0000 | 0.0000 | 7.2211 | -19.8430 | -3.9639 | 0.0000 |
| Beam 39: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 81.6608 | 849.2066 | 316.4008 | 0.0000 |
| Beam 39: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 47.8607 | 1128.9111 | 515.5426 | 0.0000 |
| Beam 39: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 106.9262 | 779.8302 | 357.7273 | 0.0000 |
| Beam 39: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 101.0169 | 782.5136 | 275.3679 | 0.0000 |
| Beam 39: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 50.6753 | 945.2625 | 335.8192 | 0.0000 |
| Beam 39: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -9.5220 | 449.8318 | 100.1183 | 0.0000 |
| Beam 39: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 107.8306 | 840.0078 | 310.3349 | 0.0000 |
| Beam 39: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 12.2243 | 251.1423 | 8.3180 | 0.0000 |
| Beam 39: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 127.0465 | 707.0723 | 259.3110 | 0.0000 |
| Beam 39: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 158.6828 | 785.9637 | 404.8891 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 39: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 149.2083 | 854.7285 | 379.5474 | 0.0000 |
| Beam 39: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 126.4962 | 663.0809 | 262.9908 | 0.0000 |
| Beam 39: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 57.7756 | 799.0702 | 298.8024 | 0.0000 |
| Beam 39: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 23.0367 | 1079.4758 | 485.5964 | 0.0000 |
| Beam 39: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 82.1022 | 730.3949 | 327.7811 | 0.0000 |
| Beam 39: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 77.1318 | 732.3773 | 257.7694 | 0.0000 |
| Beam 39: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 26.7901 | 895.1262 | 318.2208 | 0.0000 |
| Beam 39: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -8.5832 | 449.1308 | 112.4661 | 0.0000 |
| Beam 39: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 83.9454 | 789.8715 | 292.7364 | 0.0000 |
| Beam 39: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 13.1631 | 250.4413 | 20.6658 | 0.0000 |
| Beam 39: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 102.2132 | 659.6714 | 242.2910 | 0.0000 |
| Beam 39: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 131.1045 | 744.2616 | 376.5282 | 0.0000 |
| Beam 39: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 124.1872 | 807.4678 | 360.0579 | 0.0000 |
| Beam 39: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 101.4751 | 615.8202 | 243.5013 | 0.0000 |
| Beam 39: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 114.5209 | 743.5529 | 267.1279 | 0.0000 |
| Beam 39: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 89.6876 | 696.1521 | 250.1079 | 0.0000 |
| Beam 39: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 9.1137 | 488.5455 | 181.6240 | 0.0000 |
| Beam 39: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 3.6837 | 478.7062 | 175.4364 | 0.0000 |
| Beam 39: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 45.0886 | 379.0168 | 132.3277 | 0.0000 |
| Beam 39: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 39.6586 | 369.1775 | 126.1401 | 0.0000 |
| Beam 39: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 26.5681 | 468.9801 | 189.9921 | 0.0000 |
| Beam 39: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 8.4681 | 436.1824 | 169.3669 | 0.0000 |
| Beam 39: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 37.3606 | 436.1215 | 175.2032 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 39: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 19.2606 | 403.3237 | 154.5780 |
| 0.0000 | | | | | |
| Beam 39: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 5.8192 | 481.6302 | 179.1966 |
| 0.0000 | | | | | |
| Beam 39: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 0.3892 | 471.7909 | 173.0090 |
| 0.0000 | | | | | |
| Beam 39: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 41.7941 | 372.1014 | 129.9003 |
| 0.0000 | | | | | |
| Beam 39: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 36.3641 | 362.2621 | 123.7127 |
| 0.0000 | | | | | |
| Beam 39: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 23.2736 | 462.0647 | 187.5647 |
| 0.0000 | | | | | |
| Beam 39: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 5.1736 | 429.2670 | 166.9395 |
| 0.0000 | | | | | |
| Beam 39: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 34.0661 | 429.2061 | 172.7758 |
| 0.0000 | | | | | |
| Beam 39: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 15.9661 | 396.4084 | 152.1506 |
| 0.0000 | | | | | |
| Beam 39: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 59.9014 | 553.0004 | 220.9705 |
| 0.0000 | | | | | |
| Beam 39: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 22.0609 | 559.3049 | 191.8944 |
| 0.0000 | | | | | |
| Beam 39: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 30.0796 | 702.2164 | 271.2551 |
| 0.0000 | | | | | |
| Beam 39: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 44.6807 | 531.1147 | 212.4549 |
| 0.0000 | | | | | |
| Beam 39: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 7.8863 | 534.4009 | 182.7404 |
| 0.0000 | | | | | |
| Beam 39: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 16.9016 | 674.5549 | 261.5456 |
| 0.0000 | | | | | |
| Beam 39: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 48.5805 | 673.2286 | 251.2300 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 39: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 31.4541 | 640.5383 | 239.4921 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -1.9952 | 314.0556 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 30.8587 | 627.3882 | 233.9736 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 17.1575 | 601.2360 | 224.5833 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 158.6828 | 1128.9111 | 515.5426 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 158.6828 | 1128.9111 | 515.5426 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 45.0886 | 488.5455 | 189.9921 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 59.9014 | 702.2164 | 271.2551 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 30.8587 | 627.3882 | 233.9736 | |
| 0.0000 | | | | | | |
| Beam 39: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 1.9952 | 314.0556 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 39: End 2: 1: PP | 0.0000 | 0.0000 | -58.4145 | 360.7385 | 172.4289 | 0.0000 |
| Beam 39: End 2: 2: PERM | 0.0000 | 0.0000 | -14.6537 | 143.9390 | 65.2880 | 0.0000 |
| Beam 39: End 2: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -3.6842 | -41.8324 | 0.0000 |
| Beam 39: End 2: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | -15.5835 | -3.4108 | 0.0000 |
| Beam 39: End 2: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | -173.0413 | -75.4046 | 0.0000 |
| Beam 39: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 81.0430 | 195.5390 | 109.0719 | 0.0000 |
| Beam 39: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 65.9941 | 159.2294 | 88.8183 | 0.0000 |
| Beam 39: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | 1.7211 | -46.7021 | 0.0000 |
| Beam 39: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | -17.1962 | -3.8079 | 0.0000 |
| Beam 39: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | 1.3995 | -38.1864 | 0.0000 |
| Beam 39: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | -14.0610 | -3.1136 | 0.0000 |
| Beam 39: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 47.3592 | 8.5616 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
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|--|--------|--------|----------|-----------|----------|--------|--|
| Beam 39: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 45.6361 | 8.2501 | 0.0000 | |
| Beam 39: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 39: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -65.7752 | -38.8522 | 0.0000 | |
| Beam 39: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 49.1122 | 29.0096 | 0.0000 | |
| Beam 39: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 134.1532 | 53.1424 | 0.0000 | |
| Beam 39: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 58.4160 | -0.4529 | 0.0000 | |
| Beam 39: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 7.6625 | 18.4879 | 10.3126 | 0.0000 | |
| Beam 39: End 2: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -1.7407 | -48.6161 | 0.0000 | |
| Beam 39: End 2: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | -18.0377 | -3.9639 | 0.0000 | |
| Beam 39: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 47.0423 | 865.2944 | 312.9136 | 0.0000 | |
| Beam 39: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 13.2422 | 1136.5489 | 512.0553 | 0.0000 | |
| Beam 39: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 72.3078 | 802.2344 | 354.2400 | 0.0000 | |
| Beam 39: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 66.3985 | 803.4405 | 271.8806 | 0.0000 | |
| Beam 39: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 16.0569 | 953.6040 | 332.3320 | 0.0000 | |
| Beam 39: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -22.8617 | 445.7839 | 100.1183 | 0.0000 | |
| Beam 39: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 73.2121 | 862.6382 | 306.8476 | 0.0000 | |
| Beam 39: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 2.7180 | 253.0101 | 8.3180 | 0.0000 | |
| Beam 39: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 92.4281 | 734.5066 | 259.3110 | 0.0000 | |
| Beam 39: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 124.0644 | 821.3071 | 404.8891 | 0.0000 | |
| Beam 39: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 114.5899 | 887.7032 | 379.5474 | 0.0000 | |
| Beam 39: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 91.8778 | 690.3776 | 262.9908 | 0.0000 | |
| Beam 39: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 27.1084 | 809.6807 | 295.4420 | 0.0000 | |
| Beam 39: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -7.6305 | 1081.4015 | 482.2360 | 0.0000 | |
| Beam 39: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 51.4351 | 747.0871 | 324.4207 | 0.0000 | |
| Beam 39: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 46.4646 | 747.8268 | 254.4091 | 0.0000 | |
| Beam 39: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -3.8770 | 897.9903 | 314.8604 | 0.0000 | |
| Beam 39: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -21.9229 | 445.3175 | 112.4661 | 0.0000 | |
| Beam 39: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 53.2782 | 807.0245 | 289.3760 | 0.0000 | |
| Beam 39: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 3.6568 | 252.5438 | 20.6658 | 0.0000 | |
| Beam 39: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 71.5460 | 681.3913 | 242.2910 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|----------|--------|
| Beam 39: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 100.4373 | 773.2043 | 376.5282 | 0.0000 |
| Beam 39: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 93.5200 | 834.6812 | 360.0579 | 0.0000 |
| Beam 39: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 70.8079 | 637.3556 | 243.5013 | 0.0000 |
| Beam 39: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 79.9025 | 767.8559 | 265.4477 | 0.0000 |
| Beam 39: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 59.0204 | 714.7406 | 248.4278 | 0.0000 |
| Beam 39: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -3.7438 | 489.2168 | 178.3680 | 0.0000 |
| Beam 39: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -8.3413 | 478.1240 | 172.1804 | 0.0000 |
| Beam 39: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 32.2311 | 388.6817 | 134.6217 | 0.0000 |
| Beam 39: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 27.6336 | 377.5890 | 128.4341 | 0.0000 |
| Beam 39: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 12.7394 | 473.8935 | 188.6786 | 0.0000 |
| Beam 39: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -2.5856 | 436.9177 | 168.0534 | 0.0000 |
| Beam 39: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 23.5318 | 443.7330 | 175.5547 | 0.0000 |
| Beam 39: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 8.2068 | 406.7572 | 154.9295 | 0.0000 |
| Beam 39: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -6.4933 | 481.5459 | 175.9581 | 0.0000 |
| Beam 39: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -11.0908 | 470.4532 | 169.7705 | 0.0000 |
| Beam 39: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 29.4816 | 381.0109 | 132.2118 | 0.0000 |
| Beam 39: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 24.8841 | 369.9181 | 126.0242 | 0.0000 |
| Beam 39: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 9.9899 | 466.2227 | 186.2687 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|----------|
| Beam 39: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -5.3351 | 429.2468 | 165.6435 |
| Beam 39: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 20.7823 | 436.0622 | 173.1448 |
| Beam 39: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 5.4573 | 399.0863 | 152.5196 |
| Beam 39: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 38.6552 | 565.3199 | 222.8945 |
| Beam 39: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 0.8146 | 562.1644 | 189.9704 |
| Beam 39: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 8.8333 | 707.0805 | 269.3311 |
| Beam 39: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 25.6144 | 539.9016 | 214.3089 |
| Beam 39: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -11.1799 | 533.9892 | 180.8864 |
| Beam 39: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -2.1647 | 676.3971 | 259.6916 |
| Beam 39: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 24.3993 | 682.3511 | 250.0712 |
| Beam 39: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 9.9978 | 645.7198 | 238.3333 |
| Beam 39: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -11.5014 | 312.3685 | 117.0691 |
| Beam 39: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 9.6124 | 632.4471 | 233.0116 |
| Beam 39: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -1.9087 | 603.1421 | 223.6213 |
| Beam 39: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 124.0644 | 1136.5489 | 512.0553 |
| Beam 39: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 124.0644 | 1136.5489 | 512.0553 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
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|--|--------|--------|----------|-----------|----------|--------|
| Beam 39: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 32.2311 | 489.2168 | 188.6786 | |
| 0.0000 | | | | | | |
| Beam 39: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 38.6552 | 707.0805 | 269.3311 | |
| 0.0000 | | | | | | |
| Beam 39: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 9.6124 | 632.4471 | 233.0116 | |
| 0.0000 | | | | | | |
| Beam 39: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 11.5014 | 312.3685 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 40: End 1: 1: PP | 0.0000 | 0.0000 | -58.4145 | 360.7385 | 172.4289 | 0.0000 |
| Beam 40: End 1: 2: PERM | 0.0000 | 0.0000 | -14.6537 | 143.9390 | 65.2880 | 0.0000 |
| Beam 40: End 1: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -3.6842 | -41.8324 | 0.0000 |
| Beam 40: End 1: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | -15.5835 | -3.4108 | 0.0000 |
| Beam 40: End 1: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | -173.0413 | -75.4046 | 0.0000 |
| Beam 40: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 81.0430 | 195.5390 | 109.0719 | 0.0000 |
| Beam 40: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 65.9941 | 159.2294 | 88.8183 | 0.0000 |
| Beam 40: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | 1.7211 | -46.7021 | 0.0000 |
| Beam 40: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | -17.1962 | -3.8079 | 0.0000 |
| Beam 40: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | 1.3995 | -38.1864 | 0.0000 |
| Beam 40: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | -14.0610 | -3.1136 | 0.0000 |
| Beam 40: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 47.3592 | 8.5616 | 0.0000 |
| Beam 40: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 45.6361 | 8.2501 | 0.0000 |
| Beam 40: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 40: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -65.7752 | -38.8522 | 0.0000 |
| Beam 40: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 49.1122 | 29.0096 | 0.0000 |
| Beam 40: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 134.1532 | 53.1424 | 0.0000 |
| Beam 40: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 58.4160 | -0.4529 | 0.0000 |
| Beam 40: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 7.6625 | 18.4879 | 10.3126 | 0.0000 |
| Beam 40: End 1: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -1.7407 | -48.6161 | 0.0000 |
| Beam 40: End 1: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | -18.0377 | -3.9639 | 0.0000 |
| Beam 40: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 47.0423 | 865.2944 | 312.9136 | 0.0000 |
| Beam 40: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 13.2422 | 1136.5489 | 512.0553 | 0.0000 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|-----------|----------|--------|
| Beam 40: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 72.3078 | 802.2344 | 354.2400 | 0.0000 |
| Beam 40: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 66.3985 | 803.4405 | 271.8806 | 0.0000 |
| Beam 40: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 16.0569 | 953.6040 | 332.3320 | 0.0000 |
| Beam 40: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -22.8617 | 445.7839 | 100.1183 | 0.0000 |
| Beam 40: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 73.2121 | 862.6382 | 306.8476 | 0.0000 |
| Beam 40: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 2.7180 | 253.0101 | 8.3180 | 0.0000 |
| Beam 40: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 92.4281 | 734.5066 | 259.3110 | 0.0000 |
| Beam 40: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 124.0644 | 821.3071 | 404.8891 | 0.0000 |
| Beam 40: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 114.5899 | 887.7032 | 379.5474 | 0.0000 |
| Beam 40: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 91.8778 | 690.3776 | 262.9908 | 0.0000 |
| Beam 40: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 27.1084 | 809.6807 | 295.4420 | 0.0000 |
| Beam 40: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -7.6305 | 1081.4015 | 482.2360 | 0.0000 |
| Beam 40: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 51.4351 | 747.0871 | 324.4207 | 0.0000 |
| Beam 40: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 46.4646 | 747.8268 | 254.4091 | 0.0000 |
| Beam 40: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -3.8770 | 897.9903 | 314.8604 | 0.0000 |
| Beam 40: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -21.9229 | 445.3175 | 112.4661 | 0.0000 |
| Beam 40: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 53.2782 | 807.0245 | 289.3760 | 0.0000 |
| Beam 40: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 3.6568 | 252.5438 | 20.6658 | 0.0000 |
| Beam 40: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 71.5460 | 681.3913 | 242.2910 | 0.0000 |
| Beam 40: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 100.4373 | 773.2043 | 376.5282 | 0.0000 |
| Beam 40: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 93.5200 | 834.6812 | 360.0579 | 0.0000 |
| Beam 40: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 70.8079 | 637.3556 | 243.5013 | 0.0000 |
| Beam 40: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 79.9025 | 767.8559 | 265.4477 | 0.0000 |
| Beam 40: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 59.0204 | 714.7406 | 248.4278 | 0.0000 |
| Beam 40: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -3.7438 | 489.2168 | 178.3680 | 0.0000 |
| Beam 40: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -8.3413 | 478.1240 | 172.1804 | 0.0000 |
| Beam 40: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 32.2311 | 388.6817 | 134.6217 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 40: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 27.6336 | 377.5890 | 128.4341 |
| 0.0000 | | | | | |
| Beam 40: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 12.7394 | 473.8935 | 188.6786 |
| 0.0000 | | | | | |
| Beam 40: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -2.5856 | 436.9177 | 168.0534 |
| 0.0000 | | | | | |
| Beam 40: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 23.5318 | 443.7330 | 175.5547 |
| 0.0000 | | | | | |
| Beam 40: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 8.2068 | 406.7572 | 154.9295 |
| 0.0000 | | | | | |
| Beam 40: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -6.4933 | 481.5459 | 175.9581 |
| 0.0000 | | | | | |
| Beam 40: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -11.0908 | 470.4532 | 169.7705 |
| 0.0000 | | | | | |
| Beam 40: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 29.4816 | 381.0109 | 132.2118 |
| 0.0000 | | | | | |
| Beam 40: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 24.8841 | 369.9181 | 126.0242 |
| 0.0000 | | | | | |
| Beam 40: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 9.9899 | 466.2227 | 186.2687 |
| 0.0000 | | | | | |
| Beam 40: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -5.3351 | 429.2468 | 165.6435 |
| 0.0000 | | | | | |
| Beam 40: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 20.7823 | 436.0622 | 173.1448 |
| 0.0000 | | | | | |
| Beam 40: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 5.4573 | 399.0863 | 152.5196 |
| 0.0000 | | | | | |
| Beam 40: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 38.6552 | 565.3199 | 222.8945 |
| 0.0000 | | | | | |
| Beam 40: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 0.8146 | 562.1644 | 189.9704 |
| 0.0000 | | | | | |
| Beam 40: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 8.8333 | 707.0805 | 269.3311 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|----------|--------|
| Beam 40: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 25.6144 | 539.9016 | 214.3089 | 0.0000 |
| Beam 40: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -11.1799 | 533.9892 | 180.8864 | 0.0000 |
| Beam 40: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -2.1647 | 676.3971 | 259.6916 | 0.0000 |
| Beam 40: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 24.3993 | 682.3511 | 250.0712 | 0.0000 |
| Beam 40: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 9.9978 | 645.7198 | 238.3333 | 0.0000 |
| Beam 40: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -11.5014 | 312.3685 | 117.0691 | 0.0000 |
| Beam 40: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 9.6124 | 632.4471 | 233.0116 | 0.0000 |
| Beam 40: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -1.9087 | 603.1421 | 223.6213 | 0.0000 |
| Beam 40: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 124.0644 | 1136.5489 | 512.0553 | 0.0000 |
| Beam 40: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 124.0644 | 1136.5489 | 512.0553 | 0.0000 |
| Beam 40: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 32.2311 | 489.2168 | 188.6786 | 0.0000 |
| Beam 40: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 38.6552 | 707.0805 | 269.3311 | 0.0000 |
| Beam 40: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 9.6124 | 632.4471 | 233.0116 | 0.0000 |
| Beam 40: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 11.5014 | 312.3685 | 117.0691 | 0.0000 |
| Beam 40: End 2: 1: PP | 0.0000 | 0.0000 | -64.5458 | 345.3685 | 172.4289 | 0.0000 |
| Beam 40: End 2: 2: PERM | 0.0000 | 0.0000 | -18.0287 | 139.8537 | 65.2880 | 0.0000 |
| Beam 40: End 2: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -4.2360 | -41.8324 | 0.0000 |
| Beam 40: End 2: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | -14.0176 | -3.4108 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|----------|--------|--|
| Beam 40: End 2: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | -158.6637 | -75.4046 | 0.0000 | |
| Beam 40: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 66.3680 | 213.9654 | 109.0719 | 0.0000 | |
| Beam 40: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 54.0441 | 174.2342 | 88.8183 | 0.0000 | |
| Beam 40: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | 0.8354 | -46.7021 | 0.0000 | |
| Beam 40: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | -15.4881 | -3.8079 | 0.0000 | |
| Beam 40: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | 0.6757 | -38.1864 | 0.0000 | |
| Beam 40: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | -12.6642 | -3.1136 | 0.0000 | |
| Beam 40: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 42.8661 | 6.1566 | 0.0000 | |
| Beam 40: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 41.3065 | 5.9326 | 0.0000 | |
| Beam 40: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 40: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -67.6679 | -38.8522 | 0.0000 | |
| Beam 40: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 50.5254 | 29.0096 | 0.0000 | |
| Beam 40: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 122.8313 | 53.1424 | 0.0000 | |
| Beam 40: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 52.6395 | -3.2279 | 0.0000 | |
| Beam 40: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 6.2750 | 20.2301 | 10.3126 | 0.0000 | |
| Beam 40: End 2: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -2.4947 | -48.6161 | 0.0000 | |
| Beam 40: End 2: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | -16.2324 | -3.9639 | 0.0000 | |
| Beam 40: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 12.4239 | 872.7277 | 309.4263 | 0.0000 | |
| Beam 40: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -21.3762 | 1135.5322 | 508.5681 | 0.0000 | |
| Beam 40: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 37.6893 | 815.9841 | 350.7528 | 0.0000 | |
| Beam 40: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 31.7801 | 815.7128 | 268.3934 | 0.0000 | |
| Beam 40: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -18.5615 | 953.2909 | 328.8447 | 0.0000 | |
| Beam 40: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -36.2014 | 438.4010 | 100.1183 | 0.0000 | |
| Beam 40: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 38.5937 | 876.6139 | 303.3604 | 0.0000 | |
| Beam 40: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -6.7882 | 252.5013 | 8.3180 | 0.0000 | |
| Beam 40: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 57.8097 | 753.2863 | 259.3110 | 0.0000 | |
| Beam 40: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 89.4459 | 847.9959 | 404.8891 | 0.0000 | |
| Beam 40: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 79.9714 | 912.0234 | 379.5474 | 0.0000 | |
| Beam 40: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 57.2593 | 709.0197 | 262.9908 | 0.0000 | |
| Beam 40: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -3.5588 | 812.6244 | 292.0816 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|----------|--------|
| Beam 40: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -38.2977 | 1075.6605 | 478.8756 | 0.0000 |
| Beam 40: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 20.7679 | 756.1124 | 321.0604 | 0.0000 |
| Beam 40: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 15.7974 | 755.6095 | 251.0487 | 0.0000 |
| Beam 40: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -34.5442 | 893.1877 | 311.5000 | 0.0000 |
| Beam 40: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -35.2626 | 438.1694 | 112.4661 | 0.0000 |
| Beam 40: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 22.6110 | 816.5106 | 286.0156 | 0.0000 |
| Beam 40: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -5.8494 | 252.2697 | 20.6658 | 0.0000 |
| Beam 40: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 40.8788 | 695.4444 | 242.2910 | 0.0000 |
| Beam 40: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 69.7701 | 794.4802 | 376.5282 | 0.0000 |
| Beam 40: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 62.8528 | 854.2278 | 360.0579 | 0.0000 |
| Beam 40: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 40.1407 | 651.2242 | 243.5013 | 0.0000 |
| Beam 40: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 45.2841 | 783.5042 | 263.7675 | 0.0000 |
| Beam 40: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 28.3533 | 725.6623 | 246.7476 | 0.0000 |
| Beam 40: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -16.6013 | 486.6737 | 175.1120 | 0.0000 |
| Beam 40: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -20.3663 | 474.5356 | 168.9244 | 0.0000 |
| Beam 40: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 19.3736 | 395.1323 | 136.9157 | 0.0000 |
| Beam 40: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 15.6086 | 382.9943 | 130.7281 | 0.0000 |
| Beam 40: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -1.0894 | 475.3498 | 187.3651 | 0.0000 |
| Beam 40: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -13.6394 | 434.8895 | 166.7399 | 0.0000 |
| Beam 40: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 9.7031 | 447.8874 | 175.9062 | 0.0000 |
| Beam 40: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -2.8469 | 407.4271 | 155.2810 | 0.0000 |
| Beam 40: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -18.8058 | 478.3836 | 172.7196 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 40: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -22.5708 | 466.2455 | 166.5320 |
| Beam 40: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 17.1691 | 386.8422 | 134.5233 |
| Beam 40: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 13.4041 | 374.7041 | 128.3357 |
| Beam 40: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -3.2939 | 467.0597 | 184.9727 |
| Beam 40: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -15.8439 | 426.5994 | 164.3475 |
| Beam 40: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 7.4986 | 439.5973 | 173.5138 |
| Beam 40: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -5.0514 | 399.1370 | 152.8886 |
| Beam 40: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 17.4089 | 572.3280 | 224.8185 |
| Beam 40: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -20.4316 | 559.7122 | 188.0464 |
| Beam 40: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -12.4129 | 706.6330 | 267.4071 |
| Beam 40: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 6.5482 | 543.9219 | 216.1629 |
| Beam 40: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -30.2462 | 528.8109 | 179.0324 |
| Beam 40: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -21.2309 | 673.4726 | 257.8376 |
| Beam 40: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 0.2180 | 685.4282 | 248.9125 |
| Beam 40: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -11.4584 | 645.5373 | 237.1746 |
| Beam 40: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -21.0077 | 308.3049 | 117.0691 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
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| Beam 40: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -11.6338 | 632.1944 | 232.0496 | |
| Beam 40: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -20.9750 | 600.2817 | 222.6593 | |
| Beam 40: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 89.4459 | 1135.5322 | 508.5681 | |
| Beam 40: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 89.4459 | 1135.5322 | 508.5681 | |
| Beam 40: End 2: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 22.5708 | 486.6737 | 187.3651 | |
| Beam 40: End 2: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 30.2462 | 706.6330 | 267.4071 | |
| Beam 40: End 2: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 20.9750 | 632.1944 | 232.0496 | |
| Beam 40: End 2: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 21.0077 | 308.3049 | 117.0691 | |
| Beam 41: End 1: 1: PP | 0.0000 | 0.0000 | -64.5458 | 345.3685 | 172.4289 | 0.0000 |
| Beam 41: End 1: 2: PERM | 0.0000 | 0.0000 | -18.0287 | 139.8537 | 65.2880 | 0.0000 |
| Beam 41: End 1: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -4.2360 | -41.8324 | 0.0000 |
| Beam 41: End 1: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | -14.0176 | -3.4108 | 0.0000 |
| Beam 41: End 1: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | -158.6637 | -75.4046 | 0.0000 |
| Beam 41: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 66.3680 | 213.9654 | 109.0719 | 0.0000 |
| Beam 41: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 54.0441 | 174.2342 | 88.8183 | 0.0000 |
| Beam 41: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | 0.8354 | -46.7021 | 0.0000 |
| Beam 41: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | -15.4881 | -3.8079 | 0.0000 |
| Beam 41: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | 0.6757 | -38.1864 | 0.0000 |
| Beam 41: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | -12.6642 | -3.1136 | 0.0000 |
| Beam 41: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 42.8661 | 6.1566 | 0.0000 |
| Beam 41: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 41.3065 | 5.9326 | 0.0000 |
| Beam 41: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 41: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -67.6679 | -38.8522 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 41: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 50.5254 | 29.0096 | 0.0000 | |
| Beam 41: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 122.8313 | 53.1424 | 0.0000 | |
| Beam 41: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 52.6395 | -3.2279 | 0.0000 | |
| Beam 41: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 6.2750 | 20.2301 | 10.3126 | 0.0000 | |
| Beam 41: End 1: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -2.4947 | -48.6161 | 0.0000 | |
| Beam 41: End 1: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | -16.2324 | -3.9639 | 0.0000 | |
| Beam 41: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 12.4239 | 872.7277 | 309.4263 | 0.0000 | |
| Beam 41: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -21.3762 | 1135.5322 | 508.5681 | 0.0000 | |
| Beam 41: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 37.6893 | 815.9841 | 350.7528 | 0.0000 | |
| Beam 41: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 31.7801 | 815.7128 | 268.3934 | 0.0000 | |
| Beam 41: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -18.5615 | 953.2909 | 328.8447 | 0.0000 | |
| Beam 41: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -36.2014 | 438.4010 | 100.1183 | 0.0000 | |
| Beam 41: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 38.5937 | 876.6139 | 303.3604 | 0.0000 | |
| Beam 41: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -6.7882 | 252.5013 | 8.3180 | 0.0000 | |
| Beam 41: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 57.8097 | 753.2863 | 259.3110 | 0.0000 | |
| Beam 41: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 89.4459 | 847.9959 | 404.8891 | 0.0000 | |
| Beam 41: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 79.9714 | 912.0234 | 379.5474 | 0.0000 | |
| Beam 41: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 57.2593 | 709.0197 | 262.9908 | 0.0000 | |
| Beam 41: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -3.5588 | 812.6244 | 292.0816 | 0.0000 | |
| Beam 41: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -38.2977 | 1075.6605 | 478.8756 | 0.0000 | |
| Beam 41: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 20.7679 | 756.1124 | 321.0604 | 0.0000 | |
| Beam 41: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 15.7974 | 755.6095 | 251.0487 | 0.0000 | |
| Beam 41: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -34.5442 | 893.1877 | 311.5000 | 0.0000 | |
| Beam 41: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -35.2626 | 438.1694 | 112.4661 | 0.0000 | |
| Beam 41: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 22.6110 | 816.5106 | 286.0156 | 0.0000 | |
| Beam 41: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -5.8494 | 252.2697 | 20.6658 | 0.0000 | |
| Beam 41: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 40.8788 | 695.4444 | 242.2910 | 0.0000 | |
| Beam 41: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 69.7701 | 794.4802 | 376.5282 | 0.0000 | |
| Beam 41: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 62.8528 | 854.2278 | 360.0579 | 0.0000 | |
| Beam 41: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 40.1407 | 651.2242 | 243.5013 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|--------|
| Beam 41: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 45.2841 | 783.5042 | 263.7675 | 0.0000 |
| Beam 41: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 28.3533 | 725.6623 | 246.7476 | 0.0000 |
| Beam 41: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -16.6013 | 486.6737 | 175.1120 | 0.0000 |
| Beam 41: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -20.3663 | 474.5356 | 168.9244 | 0.0000 |
| Beam 41: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 19.3736 | 395.1323 | 136.9157 | 0.0000 |
| Beam 41: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 15.6086 | 382.9943 | 130.7281 | 0.0000 |
| Beam 41: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -1.0894 | 475.3498 | 187.3651 | 0.0000 |
| Beam 41: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -13.6394 | 434.8895 | 166.7399 | 0.0000 |
| Beam 41: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 9.7031 | 447.8874 | 175.9062 | 0.0000 |
| Beam 41: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -2.8469 | 407.4271 | 155.2810 | 0.0000 |
| Beam 41: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -18.8058 | 478.3836 | 172.7196 | 0.0000 |
| Beam 41: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -22.5708 | 466.2455 | 166.5320 | 0.0000 |
| Beam 41: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 17.1691 | 386.8422 | 134.5233 | 0.0000 |
| Beam 41: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 13.4041 | 374.7041 | 128.3357 | 0.0000 |
| Beam 41: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -3.2939 | 467.0597 | 184.9727 | 0.0000 |
| Beam 41: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -15.8439 | 426.5994 | 164.3475 | 0.0000 |
| Beam 41: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 7.4986 | 439.5973 | 173.5138 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 41: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -5.0514 | 399.1370 | 152.8886 |
| Beam 41: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 17.4089 | 572.3280 | 224.8185 |
| Beam 41: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -20.4316 | 559.7122 | 188.0464 |
| Beam 41: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -12.4129 | 706.6330 | 267.4071 |
| Beam 41: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 6.5482 | 543.9219 | 216.1629 |
| Beam 41: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -30.2462 | 528.8109 | 179.0324 |
| Beam 41: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -21.2309 | 673.4726 | 257.8376 |
| Beam 41: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 0.2180 | 685.4282 | 248.9125 |
| Beam 41: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -11.4584 | 645.5373 | 237.1746 |
| Beam 41: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -21.0077 | 308.3049 | 117.0691 |
| Beam 41: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -11.6338 | 632.1944 | 232.0496 |
| Beam 41: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -20.9750 | 600.2817 | 222.6593 |
| Beam 41: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 89.4459 | 1135.5322 | 508.5681 |
| Beam 41: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 89.4459 | 1135.5322 | 508.5681 |
| Beam 41: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 22.5708 | 486.6737 | 187.3651 |
| Beam 41: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 30.2462 | 706.6330 | 267.4071 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLS0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|----------|--------|
| Beam 41: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 20.9750 | 632.1944 | 232.0496 | 0.0000 |
| Beam 41: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 21.0077 | 308.3049 | 117.0691 | 0.0000 |
| Beam 41: End 2: 1: PP | 0.0000 | 0.0000 | -106.7288 | 198.0723 | 172.4289 | 0.0000 |
| Beam 41: End 2: 2: PERM | 0.0000 | 0.0000 | -41.2487 | 88.8752 | 65.2880 | 0.0000 |
| Beam 41: End 2: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -8.0325 | -41.8324 | 0.0000 |
| Beam 41: End 2: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | -3.2445 | -3.4108 | 0.0000 |
| Beam 41: End 2: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | -59.7454 | -75.4046 | 0.0000 |
| Beam 41: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -34.5960 | 241.2892 | 109.0719 | 0.0000 |
| Beam 41: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -28.1719 | 196.4842 | 88.8183 | 0.0000 |
| Beam 41: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | -5.2578 | -46.7021 | 0.0000 |
| Beam 41: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | -3.7357 | -3.8079 | 0.0000 |
| Beam 41: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | -4.3040 | -38.1864 | 0.0000 |
| Beam 41: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | -3.0543 | -3.1136 | 0.0000 |
| Beam 41: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 11.9537 | -10.3898 | 0.0000 |
| Beam 41: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 11.5188 | -10.0118 | 0.0000 |
| Beam 41: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 41: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -80.6895 | -38.8522 | 0.0000 |
| Beam 41: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 60.2482 | 29.0096 | 0.0000 |
| Beam 41: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 44.9363 | 53.1424 | 0.0000 |
| Beam 41: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 12.8972 | -22.3199 | 0.0000 |
| Beam 41: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -3.2710 | 22.8135 | 10.3126 | 0.0000 |
| Beam 41: End 2: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -7.6822 | -48.6161 | 0.0000 |
| Beam 41: End 2: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | -3.8121 | -3.9639 | 0.0000 |
| Beam 41: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -225.7510 | 689.2664 | 285.4341 | 0.0000 |
| Beam 41: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -259.5510 | 893.9348 | 484.5758 | 0.0000 |
| Beam 41: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -200.4855 | 675.9794 | 326.7605 | 0.0000 |
| Beam 41: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -206.3948 | 665.5442 | 244.4011 | 0.0000 |
| Beam 41: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -256.7364 | 716.5347 | 304.8525 | 0.0000 |
| Beam 41: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -127.9784 | 297.2063 | 100.1183 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|----------|--------|
| Beam 41: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -199.5811 | 738.1647 | 279.3681 | 0.0000 |
| Beam 41: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -72.1912 | 184.5790 | 8.3180 | 0.0000 |
| Beam 41: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -180.3652 | 647.8886 | 259.3110 | 0.0000 |
| Beam 41: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -148.7289 | 797.0126 | 404.8891 | 0.0000 |
| Beam 41: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -158.2034 | 844.7439 | 379.5474 | 0.0000 |
| Beam 41: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -180.9155 | 602.6754 | 262.9908 | 0.0000 |
| Beam 41: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -214.5491 | 625.0517 | 268.9622 | 0.0000 |
| Beam 41: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -249.2879 | 828.3369 | 455.7562 | 0.0000 |
| Beam 41: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -190.2224 | 610.3815 | 297.9410 | 0.0000 |
| Beam 41: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -195.1929 | 601.3294 | 227.9293 | 0.0000 |
| Beam 41: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -245.5345 | 652.3200 | 288.3806 | 0.0000 |
| Beam 41: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -127.0397 | 298.5894 | 112.4661 | 0.0000 |
| Beam 41: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -188.3792 | 673.9499 | 262.8963 | 0.0000 |
| Beam 41: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -71.2524 | 185.9621 | 20.6658 | 0.0000 |
| Beam 41: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -170.1114 | 584.3044 | 242.2910 | 0.0000 |
| Beam 41: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -141.2201 | 733.0333 | 376.5282 | 0.0000 |
| Beam 41: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -148.1374 | 780.8831 | 360.0579 | 0.0000 |
| Beam 41: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -170.8495 | 538.8146 | 243.5013 | 0.0000 |
| Beam 41: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -192.8908 | 656.5624 | 252.2078 | 0.0000 |
| Beam 41: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -182.6370 | 592.9783 | 235.1879 | 0.0000 |
| Beam 41: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -105.0609 | 382.0442 | 152.7107 | 0.0000 |
| Beam 41: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -103.0983 | 368.3561 | 146.5231 | 0.0000 |
| Beam 41: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -69.0860 | 352.3796 | 152.6984 | 0.0000 |
| Beam 41: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -67.1234 | 338.6915 | 146.5108 | 0.0000 |
| Beam 41: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -96.2312 | 391.6541 | 178.3282 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|----------|
| Beam 41: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -89.6892 | 346.0270 | 157.7030 |
| Beam 41: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -85.4387 | 382.7547 | 178.3245 |
| Beam 41: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -78.8967 | 337.1276 | 157.6993 |
| Beam 41: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -103.5158 | 373.1870 | 150.4387 |
| Beam 41: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -101.5532 | 359.4989 | 144.2512 |
| Beam 41: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -67.5409 | 343.5224 | 150.4264 |
| Beam 41: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -65.5783 | 329.8343 | 144.2389 |
| Beam 41: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -94.6861 | 382.7969 | 176.0562 |
| Beam 41: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -88.1441 | 337.1698 | 155.4310 |
| Beam 41: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -83.8936 | 373.8975 | 176.0525 |
| Beam 41: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -77.3516 | 328.2704 | 155.4274 |
| Beam 41: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -128.7653 | 476.5615 | 238.0556 |
| Beam 41: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -166.6058 | 398.8600 | 174.8093 |
| Beam 41: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -158.5871 | 559.5730 | 254.1700 |
| Beam 41: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -124.6276 | 442.3736 | 228.9184 |
| Beam 41: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -161.4220 | 363.9763 | 166.2768 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 41: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -152.4067 | 524.1442 | 245.0821 | |
| Beam 41: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -166.1490 | 542.7276 | 240.9403 | |
| Beam 41: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -159.0774 | 498.8764 | 229.2024 | |
| Beam 41: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -86.4107 | 215.9251 | 117.0691 | |
| Beam 41: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -157.8080 | 486.4744 | 225.4311 | |
| Beam 41: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -152.1508 | 451.3935 | 216.0408 | |
| Beam 41: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 259.5510 | 893.9348 | 484.5758 | |
| Beam 41: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 259.5510 | 893.9348 | 484.5758 | |
| Beam 41: End 2: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 105.0609 | 391.6541 | 178.3282 | |
| Beam 41: End 2: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 166.6058 | 559.5730 | 254.1700 | |
| Beam 41: End 2: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 157.8080 | 486.4744 | 225.4311 | |
| Beam 41: End 2: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 86.4107 | 215.9251 | 117.0691 | |
| Beam 42: End 1: 1: PP | 0.0000 | 0.0000 | -106.7288 | 198.0723 | 172.4289 | 0.0000 |
| Beam 42: End 1: 2: PERM | 0.0000 | 0.0000 | -41.2487 | 88.8752 | 65.2880 | 0.0000 |
| Beam 42: End 1: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -8.0325 | -41.8324 | 0.0000 |
| Beam 42: End 1: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | -3.2445 | -3.4108 | 0.0000 |
| Beam 42: End 1: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | -59.7454 | -75.4046 | 0.0000 |
| Beam 42: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -34.5960 | 241.2892 | 109.0719 | 0.0000 |
| Beam 42: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -28.1719 | 196.4842 | 88.8183 | 0.0000 |
| Beam 42: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | -5.2578 | -46.7021 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|-----------|----------|----------|--------|
| Beam 42: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | -3.7357 | -3.8079 | 0.0000 |
| Beam 42: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | -4.3040 | -38.1864 | 0.0000 |
| Beam 42: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | -3.0543 | -3.1136 | 0.0000 |
| Beam 42: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 11.9537 | -10.3898 | 0.0000 |
| Beam 42: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 11.5188 | -10.0118 | 0.0000 |
| Beam 42: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 42: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -80.6895 | -38.8522 | 0.0000 |
| Beam 42: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 60.2482 | 29.0096 | 0.0000 |
| Beam 42: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | 44.9363 | 53.1424 | 0.0000 |
| Beam 42: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 12.8972 | -22.3199 | 0.0000 |
| Beam 42: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -3.2710 | 22.8135 | 10.3126 | 0.0000 |
| Beam 42: End 1: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -7.6822 | -48.6161 | 0.0000 |
| Beam 42: End 1: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | -3.8121 | -3.9639 | 0.0000 |
| Beam 42: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -225.7510 | 689.2664 | 285.4341 | 0.0000 |
| Beam 42: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -259.5510 | 893.9348 | 484.5758 | 0.0000 |
| Beam 42: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -200.4855 | 675.9794 | 326.7605 | 0.0000 |
| Beam 42: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -206.3948 | 665.5442 | 244.4011 | 0.0000 |
| Beam 42: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -256.7364 | 716.5347 | 304.8525 | 0.0000 |
| Beam 42: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -127.9784 | 297.2063 | 100.1183 | 0.0000 |
| Beam 42: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -199.5811 | 738.1647 | 279.3681 | 0.0000 |
| Beam 42: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -72.1912 | 184.5790 | 8.3180 | 0.0000 |
| Beam 42: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -180.3652 | 647.8886 | 259.3110 | 0.0000 |
| Beam 42: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -148.7289 | 797.0126 | 404.8891 | 0.0000 |
| Beam 42: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -158.2034 | 844.7439 | 379.5474 | 0.0000 |
| Beam 42: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -180.9155 | 602.6754 | 262.9908 | 0.0000 |
| Beam 42: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -214.5491 | 625.0517 | 268.9622 | 0.0000 |
| Beam 42: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -249.2879 | 828.3369 | 455.7562 | 0.0000 |
| Beam 42: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -190.2224 | 610.3815 | 297.9410 | 0.0000 |
| Beam 42: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -195.1929 | 601.3294 | 227.9293 | 0.0000 |
| Beam 42: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -245.5345 | 652.3200 | 288.3806 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|----------|--------|
| Beam 42: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -127.0397 | 298.5894 | 112.4661 | 0.0000 |
| Beam 42: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -188.3792 | 673.9499 | 262.8963 | 0.0000 |
| Beam 42: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -71.2524 | 185.9621 | 20.6658 | 0.0000 |
| Beam 42: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -170.1114 | 584.3044 | 242.2910 | 0.0000 |
| Beam 42: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -141.2201 | 733.0333 | 376.5282 | 0.0000 |
| Beam 42: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -148.1374 | 780.8831 | 360.0579 | 0.0000 |
| Beam 42: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -170.8495 | 538.8146 | 243.5013 | 0.0000 |
| Beam 42: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -192.8908 | 656.5624 | 252.2078 | 0.0000 |
| Beam 42: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -182.6370 | 592.9783 | 235.1879 | 0.0000 |
| Beam 42: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -105.0609 | 382.0442 | 152.7107 | 0.0000 |
| Beam 42: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -103.0983 | 368.3561 | 146.5231 | 0.0000 |
| Beam 42: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -69.0860 | 352.3796 | 152.6984 | 0.0000 |
| Beam 42: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -67.1234 | 338.6915 | 146.5108 | 0.0000 |
| Beam 42: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -96.2312 | 391.6541 | 178.3282 | 0.0000 |
| Beam 42: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -89.6892 | 346.0270 | 157.7030 | 0.0000 |
| Beam 42: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -85.4387 | 382.7547 | 178.3245 | 0.0000 |
| Beam 42: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -78.8967 | 337.1276 | 157.6993 | 0.0000 |
| Beam 42: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -103.5158 | 373.1870 | 150.4387 | 0.0000 |
| Beam 42: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -101.5532 | 359.4989 | 144.2512 | 0.0000 |
| Beam 42: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -67.5409 | 343.5224 | 150.4264 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 42: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -65.5783 | 329.8343 | 144.2389 |
| Beam 42: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -94.6861 | 382.7969 | 176.0562 |
| Beam 42: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -88.1441 | 337.1698 | 155.4310 |
| Beam 42: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -83.8936 | 373.8975 | 176.0525 |
| Beam 42: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -77.3516 | 328.2704 | 155.4274 |
| Beam 42: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -128.7653 | 476.5615 | 238.0556 |
| Beam 42: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -166.6058 | 398.8600 | 174.8093 |
| Beam 42: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -158.5871 | 559.5730 | 254.1700 |
| Beam 42: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -124.6276 | 442.3736 | 228.9184 |
| Beam 42: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -161.4220 | 363.9763 | 166.2768 |
| Beam 42: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -152.4067 | 524.1442 | 245.0821 |
| Beam 42: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -166.1490 | 542.7276 | 240.9403 |
| Beam 42: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -159.0774 | 498.8764 | 229.2024 |
| Beam 42: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -86.4107 | 215.9251 | 117.0691 |
| Beam 42: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -157.8080 | 486.4744 | 225.4311 |
| Beam 42: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -152.1508 | 451.3935 | 216.0408 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|-----------|----------|----------|--------|
| Beam 42: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 259.5510 | 893.9348 | 484.5758 | |
| 0.0000 | | | | | | |
| Beam 42: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 259.5510 | 893.9348 | 484.5758 | |
| 0.0000 | | | | | | |
| Beam 42: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 105.0609 | 391.6541 | 178.3282 | |
| 0.0000 | | | | | | |
| Beam 42: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 166.6058 | 559.5730 | 254.1700 | |
| 0.0000 | | | | | | |
| Beam 42: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 157.8080 | 486.4744 | 225.4311 | |
| 0.0000 | | | | | | |
| Beam 42: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 86.4107 | 215.9251 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 42: End 2: 1: PP | 0.0000 | 0.0000 | -149.1570 | -23.2689 | 172.4289 | 0.0000 |
| Beam 42: End 2: 2: PERM | 0.0000 | 0.0000 | -64.6037 | -2.6871 | 65.2880 | 0.0000 |
| Beam 42: End 2: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -11.8510 | -41.8324 | 0.0000 |
| Beam 42: End 2: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | 7.5912 | -3.4108 | 0.0000 |
| Beam 42: End 2: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | 39.7479 | -75.4046 | 0.0000 |
| Beam 42: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -136.1470 | 93.5965 | 109.0719 | 0.0000 |
| Beam 42: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -110.8659 | 76.2165 | 88.8183 | 0.0000 |
| Beam 42: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | -11.3865 | -46.7021 | 0.0000 |
| Beam 42: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | 8.0851 | -3.8079 | 0.0000 |
| Beam 42: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | -9.3126 | -38.1864 | 0.0000 |
| Beam 42: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | 6.6114 | -3.1136 | 0.0000 |
| Beam 42: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -19.1384 | -27.0324 | 0.0000 |
| Beam 42: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -18.4421 | -26.0489 | 0.0000 |
| Beam 42: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 42: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -93.7868 | -38.8522 | 0.0000 |
| Beam 42: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 70.0275 | 29.0096 | 0.0000 |
| Beam 42: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | -33.4115 | 53.1424 | 0.0000 |
| Beam 42: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -27.0761 | -41.5229 | 0.0000 |
| Beam 42: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -12.8725 | 8.8494 | 10.3126 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|-----------|----------|----------|--------|--|
| Beam 42: End 2: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -12.8999 | -48.6161 | 0.0000 | |
| Beam 42: End 2: 21: SPSPDX | 0.0000 | 0.0000 | 7.2211 | 8.6804 | -3.9639 | 0.0000 | |
| Beam 42: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -465.3106 | 91.4982 | 261.3023 | 0.0000 | |
| Beam 42: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -499.1106 | 237.6924 | 460.4440 | 0.0000 | |
| Beam 42: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -440.0451 | 121.9204 | 302.6287 | 0.0000 | |
| Beam 42: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -445.9544 | 101.2622 | 220.2693 | 0.0000 | |
| Beam 42: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -496.2960 | 65.1617 | 280.7207 | 0.0000 | |
| Beam 42: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -220.2891 | -4.0451 | 100.1183 | 0.0000 | |
| Beam 42: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -439.1407 | 185.6703 | 255.2363 | 0.0000 | |
| Beam 42: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -137.9745 | 2.7857 | 8.3180 | 0.0000 | |
| Beam 42: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -419.9248 | 128.6377 | 259.3110 | 0.0000 | |
| Beam 42: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -388.2885 | 332.4925 | 404.8891 | 0.0000 | |
| Beam 42: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -397.7630 | 363.8329 | 379.5474 | 0.0000 | |
| Beam 42: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -420.4751 | 82.4725 | 262.9908 | 0.0000 | |
| Beam 42: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -426.7660 | 70.3141 | 245.7084 | 0.0000 | |
| Beam 42: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -461.5049 | 213.5012 | 432.5024 | 0.0000 | |
| Beam 42: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -402.4393 | 97.7292 | 274.6872 | 0.0000 | |
| Beam 42: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -407.4098 | 80.0781 | 204.6755 | 0.0000 | |
| Beam 42: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -457.7514 | 43.9777 | 265.1268 | 0.0000 | |
| Beam 42: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -219.3503 | -1.0379 | 112.4661 | 0.0000 | |
| Beam 42: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -400.5962 | 164.4862 | 239.6425 | 0.0000 | |
| Beam 42: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -137.0357 | 5.7929 | 20.6658 | 0.0000 | |
| Beam 42: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -382.3283 | 106.4440 | 242.2910 | 0.0000 | |
| Beam 42: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -353.4370 | 305.1548 | 376.5282 | 0.0000 | |
| Beam 42: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -360.3543 | 341.0377 | 360.0579 | 0.0000 | |
| Beam 42: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -383.0664 | 59.6773 | 243.5013 | 0.0000 | |
| Beam 42: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -432.4504 | 115.6423 | 240.5809 | 0.0000 | |
| Beam 42: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -394.8539 | 93.4486 | 223.5610 | 0.0000 | |
| Beam 42: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -194.0348 | 123.3265 | 130.1792 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 42: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | -186.3113 | 118.0169 | 123.9916 |
| Beam 42: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | -158.0599 | 155.8984 | 168.5729 |
| Beam 42: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -150.3364 | 150.5887 | 162.3853 |
| Beam 42: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -191.9261 | 142.3981 | 169.2388 |
| Beam 42: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -166.1811 | 124.6992 | 148.6136 |
| Beam 42: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -181.1337 | 152.1696 | 180.7569 |
| Beam 42: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -155.3887 | 134.4708 | 160.1317 |
| Beam 42: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -188.7183 | 120.4046 | 128.0283 |
| Beam 42: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -180.9948 | 115.0949 | 121.8407 |
| Beam 42: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -152.7434 | 152.9764 | 166.4220 |
| Beam 42: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -145.0199 | 147.6668 | 160.2344 |
| Beam 42: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -186.6096 | 139.4761 | 167.0879 |
| Beam 42: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -160.8646 | 121.7773 | 146.4627 |
| Beam 42: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -175.8172 | 149.2477 | 178.6060 |
| Beam 42: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -150.0722 | 131.5489 | 157.9808 |
| Beam 42: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -275.7893 | 126.6218 | 251.3697 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 42: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -313.6299 | -16.5438 | 161.4952 |
| Beam 42: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -305.6112 | 158.0415 | 240.8559 |
| Beam 42: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -256.5661 | 112.6410 | 241.7481 |
| Beam 42: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -293.3604 | -29.4105 | 153.4472 |
| Beam 42: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -284.3452 | 146.3537 | 232.2524 |
| Beam 42: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -333.4832 | 110.5457 | 232.9217 |
| Beam 42: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -307.5547 | 95.2397 | 221.1838 |
| Beam 42: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -152.1939 | 9.5322 | 117.0691 |
| Beam 42: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -304.8321 | 86.2907 | 218.7740 |
| Beam 42: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -284.0892 | 74.0459 | 209.3837 |
| Beam 42: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 499.1106 | 363.8329 | 460.4440 |
| Beam 42: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 499.1106 | 363.8329 | 460.4440 |
| Beam 42: End 2: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 194.0348 | 155.8984 | 180.7569 |
| Beam 42: End 2: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 333.4832 | 158.0415 | 251.3697 |
| Beam 42: End 2: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 304.8321 | 86.2907 | 218.7740 |
| Beam 42: End 2: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 152.1939 | 9.5322 | 117.0691 |
| Beam 43: End 1: 1: PP | 0.0000 | 0.0000 | -149.1570 | -23.2689 | 172.4289 |
| | | | | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | Progetto | Lotto | Codifica | |
| | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|----------|----------|--------|--|
| Beam 43: End 1: 2: PERM | 0.0000 | 0.0000 | -64.6037 | -2.6871 | 65.2880 | 0.0000 | |
| Beam 43: End 1: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -11.8510 | -41.8324 | 0.0000 | |
| Beam 43: End 1: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | 7.5912 | -3.4108 | 0.0000 | |
| Beam 43: End 1: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | 39.7479 | -75.4046 | 0.0000 | |
| Beam 43: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -136.1470 | 93.5965 | 109.0719 | 0.0000 | |
| Beam 43: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -110.8659 | 76.2165 | 88.8183 | 0.0000 | |
| Beam 43: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | -11.3865 | -46.7021 | 0.0000 | |
| Beam 43: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | 8.0851 | -3.8079 | 0.0000 | |
| Beam 43: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | -9.3126 | -38.1864 | 0.0000 | |
| Beam 43: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | 6.6114 | -3.1136 | 0.0000 | |
| Beam 43: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -19.1384 | -27.0324 | 0.0000 | |
| Beam 43: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -18.4421 | -26.0489 | 0.0000 | |
| Beam 43: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 43: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -93.7868 | -38.8522 | 0.0000 | |
| Beam 43: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 70.0275 | 29.0096 | 0.0000 | |
| Beam 43: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | -33.4115 | 53.1424 | 0.0000 | |
| Beam 43: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -27.0761 | -41.5229 | 0.0000 | |
| Beam 43: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -12.8725 | 8.8494 | 10.3126 | 0.0000 | |
| Beam 43: End 1: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -12.8999 | -48.6161 | 0.0000 | |
| Beam 43: End 1: 21: SPSSDX | 0.0000 | 0.0000 | 7.2211 | 8.6804 | -3.9639 | 0.0000 | |
| Beam 43: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -465.3106 | 91.4982 | 261.3023 | 0.0000 | |
| Beam 43: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -499.1106 | 237.6924 | 460.4440 | 0.0000 | |
| Beam 43: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -440.0451 | 121.9204 | 302.6287 | 0.0000 | |
| Beam 43: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -445.9544 | 101.2622 | 220.2693 | 0.0000 | |
| Beam 43: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -496.2960 | 65.1617 | 280.7207 | 0.0000 | |
| Beam 43: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -220.2891 | -4.0451 | 100.1183 | 0.0000 | |
| Beam 43: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -439.1407 | 185.6703 | 255.2363 | 0.0000 | |
| Beam 43: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -137.9745 | 2.7857 | 8.3180 | 0.0000 | |
| Beam 43: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -419.9248 | 128.6377 | 259.3110 | 0.0000 | |
| Beam 43: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -388.2885 | 332.4925 | 404.8891 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|----------|--------|
| Beam 43: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -397.7630 | 363.8329 | 379.5474 | 0.0000 |
| Beam 43: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -420.4751 | 82.4725 | 262.9908 | 0.0000 |
| Beam 43: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -426.7660 | 70.3141 | 245.7084 | 0.0000 |
| Beam 43: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -461.5049 | 213.5012 | 432.5024 | 0.0000 |
| Beam 43: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -402.4393 | 97.7292 | 274.6872 | 0.0000 |
| Beam 43: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -407.4098 | 80.0781 | 204.6755 | 0.0000 |
| Beam 43: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -457.7514 | 43.9777 | 265.1268 | 0.0000 |
| Beam 43: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -219.3503 | -1.0379 | 112.4661 | 0.0000 |
| Beam 43: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -400.5962 | 164.4862 | 239.6425 | 0.0000 |
| Beam 43: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -137.0357 | 5.7929 | 20.6658 | 0.0000 |
| Beam 43: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -382.3283 | 106.4440 | 242.2910 | 0.0000 |
| Beam 43: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -353.4370 | 305.1548 | 376.5282 | 0.0000 |
| Beam 43: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -360.3543 | 341.0377 | 360.0579 | 0.0000 |
| Beam 43: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -383.0664 | 59.6773 | 243.5013 | 0.0000 |
| Beam 43: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -432.4504 | 115.6423 | 240.5809 | 0.0000 |
| Beam 43: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -394.8539 | 93.4486 | 223.5610 | 0.0000 |
| Beam 43: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -194.0348 | 123.3265 | 130.1792 | 0.0000 |
| Beam 43: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -186.3113 | 118.0169 | 123.9916 | 0.0000 |
| Beam 43: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -158.0599 | 155.8984 | 168.5729 | 0.0000 |
| Beam 43: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -150.3364 | 150.5887 | 162.3853 | 0.0000 |
| Beam 43: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -191.9261 | 142.3981 | 169.2388 | 0.0000 |
| Beam 43: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -166.1811 | 124.6992 | 148.6136 | 0.0000 |
| Beam 43: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -181.1337 | 152.1696 | 180.7569 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 43: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -155.3887 | 134.4708 | 160.1317 |
| Beam 43: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -188.7183 | 120.4046 | 128.0283 |
| Beam 43: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -180.9948 | 115.0949 | 121.8407 |
| Beam 43: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -152.7434 | 152.9764 | 166.4220 |
| Beam 43: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -145.0199 | 147.6668 | 160.2344 |
| Beam 43: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -186.6096 | 139.4761 | 167.0879 |
| Beam 43: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -160.8646 | 121.7773 | 146.4627 |
| Beam 43: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -175.8172 | 149.2477 | 178.6060 |
| Beam 43: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -150.0722 | 131.5489 | 157.9808 |
| Beam 43: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -275.7893 | 126.6218 | 251.3697 |
| Beam 43: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -313.6299 | -16.5438 | 161.4952 |
| Beam 43: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -305.6112 | 158.0415 | 240.8559 |
| Beam 43: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -256.5661 | 112.6410 | 241.7481 |
| Beam 43: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -293.3604 | -29.4105 | 153.4472 |
| Beam 43: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -284.3452 | 146.3537 | 232.2524 |
| Beam 43: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -333.4832 | 110.5457 | 232.9217 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 43: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -307.5547 | 95.2397 | 221.1838 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -152.1939 | 9.5322 | 117.0691 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -304.8321 | 86.2907 | 218.7740 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -284.0892 | 74.0459 | 209.3837 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 499.1106 | 363.8329 | 460.4440 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 499.1106 | 363.8329 | 460.4440 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 194.0348 | 155.8984 | 180.7569 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 333.4832 | 158.0415 | 251.3697 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 304.8321 | 86.2907 | 218.7740 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 152.1939 | 9.5322 | 117.0691 | | |
| 0.0000 | | | | | | | |
| Beam 43: End 2: 1: PP | 0.0000 | 0.0000 | -191.3400 | -316.0964 | 172.4289 | 0.0000 | |
| Beam 43: End 2: 2: PERM | 0.0000 | 0.0000 | -87.8237 | -133.7746 | 65.2880 | 0.0000 | |
| Beam 43: End 2: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -15.6474 | -41.8324 | 0.0000 | |
| Beam 43: End 2: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | 18.3643 | -3.4108 | 0.0000 | |
| Beam 43: End 2: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | 138.6662 | -75.4046 | 0.0000 | |
| Beam 43: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -237.1110 | -227.4055 | 109.0719 | 0.0000 | |
| Beam 43: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -193.0819 | -185.1786 | 88.8183 | 0.0000 | |
| Beam 43: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | -17.4797 | -46.7021 | 0.0000 | |
| Beam 43: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | 19.8375 | -3.8079 | 0.0000 | |
| Beam 43: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | -14.2922 | -38.1864 | 0.0000 | |
| Beam 43: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | 16.2213 | -3.1136 | 0.0000 | |
| Beam 43: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -50.0508 | -43.5788 | 0.0000 | |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|-----------|-----------|----------|--------|
| Beam 43: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -48.2299 | -41.9933 | 0.0000 |
| Beam 43: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 43: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -106.8084 | -38.8522 | 0.0000 |
| Beam 43: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 79.7503 | 29.0096 | 0.0000 |
| Beam 43: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | -111.3064 | 53.1424 | 0.0000 |
| Beam 43: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -66.8184 | -60.6149 | 0.0000 |
| Beam 43: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -22.4185 | -21.5009 | 10.3126 | 0.0000 |
| Beam 43: End 2: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -18.0874 | -48.6161 | 0.0000 |
| Beam 43: End 2: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | 21.1008 | -3.9639 | 0.0000 |
| Beam 43: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -703.4854 | -913.6663 | 237.3100 | 0.0000 |
| Beam 43: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -737.2855 | -825.6083 | 436.4517 | 0.0000 |
| Beam 43: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -678.2199 | -839.7875 | 278.6365 | 0.0000 |
| Beam 43: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -684.1292 | -870.6097 | 196.2771 | 0.0000 |
| Beam 43: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -734.4708 | -993.2977 | 256.7284 | 0.0000 |
| Beam 43: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -312.0661 | -461.8705 | 100.1183 | 0.0000 |
| Beam 43: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -677.3156 | -774.4822 | 231.2440 | 0.0000 |
| Beam 43: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -203.3775 | -290.7770 | 8.3180 | 0.0000 |
| Beam 43: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -658.0996 | -798.4632 | 259.3110 | 0.0000 |
| Beam 43: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -626.4634 | -540.1941 | 404.8891 | 0.0000 |
| Beam 43: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -635.9379 | -525.1499 | 379.5474 | 0.0000 |
| Beam 43: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -658.6500 | -845.5751 | 262.9908 | 0.0000 |
| Beam 43: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -637.7562 | -845.1750 | 222.5891 | 0.0000 |
| Beam 43: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -672.4951 | -761.7388 | 409.3831 | 0.0000 |
| Beam 43: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -613.4296 | -775.9181 | 251.5678 | 0.0000 |
| Beam 43: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -618.4001 | -802.1184 | 181.5561 | 0.0000 |
| Beam 43: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -668.7417 | -924.8064 | 242.0075 | 0.0000 |
| Beam 43: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -311.1273 | -457.2487 | 112.4661 | 0.0000 |
| Beam 43: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -611.5864 | -705.9908 | 216.5231 | 0.0000 |
| Beam 43: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -202.4387 | -286.1551 | 20.6658 | 0.0000 |
| Beam 43: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -593.3186 | -732.6123 | 242.2910 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|----------|--------|
| Beam 43: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -564.4273 | -484.2085 | 376.5282 | 0.0000 |
| Beam 43: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -571.3446 | -460.2233 | 360.0579 | 0.0000 |
| Beam 43: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -594.0567 | -780.6486 | 243.5013 | 0.0000 |
| Beam 43: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -670.6252 | -833.0027 | 229.0212 | 0.0000 |
| Beam 43: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -605.8442 | -767.1518 | 212.0013 | 0.0000 |
| Beam 43: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -282.4944 | -286.4885 | 107.7779 | 0.0000 |
| Beam 43: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -269.0433 | -273.5880 | 101.5903 | 0.0000 |
| Beam 43: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -246.5195 | -192.0400 | 184.3556 | 0.0000 |
| Beam 43: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -233.0684 | -179.1395 | 178.1680 | 0.0000 |
| Beam 43: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -287.0679 | -269.5368 | 160.2019 | 0.0000 |
| Beam 43: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -242.2309 | -226.5351 | 139.5767 | 0.0000 |
| Beam 43: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -276.2755 | -241.2023 | 183.1752 | 0.0000 |
| Beam 43: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -231.4385 | -198.2005 | 162.5500 | 0.0000 |
| Beam 43: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -273.4283 | -277.0415 | 105.7474 | 0.0000 |
| Beam 43: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -259.9772 | -264.1409 | 99.5599 | 0.0000 |
| Beam 43: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -237.4534 | -182.5929 | 182.3251 | 0.0000 |
| Beam 43: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -224.0023 | -169.6924 | 176.1376 | 0.0000 |
| Beam 43: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -278.0018 | -260.0897 | 158.1714 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 43: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -233.1648 | -217.0880 | 137.5462 |
| 0.0000 | | | | | |
| Beam 43: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -267.2094 | -231.7552 | 181.1447 |
| 0.0000 | | | | | |
| Beam 43: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -222.3724 | -188.7534 | 160.5196 |
| 0.0000 | | | | | |
| Beam 43: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -421.9635 | -473.4456 | 264.6068 |
| 0.0000 | | | | | |
| Beam 43: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -459.8041 | -681.6970 | 148.2581 |
| 0.0000 | | | | | |
| Beam 43: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -451.7854 | -493.3195 | 227.6188 |
| 0.0000 | | | | | |
| Beam 43: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -387.7419 | -441.4638 | 254.5036 |
| 0.0000 | | | | | |
| Beam 43: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -424.5362 | -646.8017 | 140.6916 |
| 0.0000 | | | | | |
| Beam 43: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -415.5210 | -455.5312 | 219.4969 |
| 0.0000 | | | | | |
| Beam 43: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -499.8502 | -606.1211 | 224.9495 |
| 0.0000 | | | | | |
| Beam 43: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -455.1737 | -560.7067 | 213.2116 |
| 0.0000 | | | | | |
| Beam 43: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -217.5969 | -308.4879 | 117.0691 |
| 0.0000 | | | | | |
| Beam 43: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -451.0063 | -563.7303 | 212.1555 |
| 0.0000 | | | | | |
| Beam 43: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -415.2650 | -527.3987 | 202.7652 |
| 0.0000 | | | | | |
| Beam 43: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 737.2855 | 993.2977 | 436.4517 |
| 0.0000 | | | | | |
| Beam 43: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 737.2855 | 993.2977 | 436.4517 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|-----------|----------|--------|
| Beam 43: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 287.0679 | 286.4885 | 184.3556 | 0.0000 |
| Beam 43: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 499.8502 | 681.6970 | 264.6068 | 0.0000 |
| Beam 43: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 451.0063 | 563.7303 | 212.1555 | 0.0000 |
| Beam 43: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 217.5969 | 308.4879 | 117.0691 | 0.0000 |
| Beam 44: End 1: 1: PP | 0.0000 | 0.0000 | -191.3400 | -316.0964 | 172.4289 | 0.0000 |
| Beam 44: End 1: 2: PERM | 0.0000 | 0.0000 | -87.8237 | -133.7746 | 65.2880 | 0.0000 |
| Beam 44: End 1: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -15.6474 | -41.8324 | 0.0000 |
| Beam 44: End 1: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | 18.3643 | -3.4108 | 0.0000 |
| Beam 44: End 1: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | 138.6662 | -75.4046 | 0.0000 |
| Beam 44: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -237.1110 | -227.4055 | 109.0719 | 0.0000 |
| Beam 44: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -193.0819 | -185.1786 | 88.8183 | 0.0000 |
| Beam 44: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | -17.4797 | -46.7021 | 0.0000 |
| Beam 44: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | 19.8375 | -3.8079 | 0.0000 |
| Beam 44: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | -14.2922 | -38.1864 | 0.0000 |
| Beam 44: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | 16.2213 | -3.1136 | 0.0000 |
| Beam 44: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -50.0508 | -43.5788 | 0.0000 |
| Beam 44: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -48.2299 | -41.9933 | 0.0000 |
| Beam 44: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 44: End 1: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -106.8084 | -38.8522 | 0.0000 |
| Beam 44: End 1: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 79.7503 | 29.0096 | 0.0000 |
| Beam 44: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | -111.3064 | 53.1424 | 0.0000 |
| Beam 44: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -66.8184 | -60.6149 | 0.0000 |
| Beam 44: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -22.4185 | -21.5009 | 10.3126 | 0.0000 |
| Beam 44: End 1: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -18.0874 | -48.6161 | 0.0000 |
| Beam 44: End 1: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | 21.1008 | -3.9639 | 0.0000 |
| Beam 44: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -703.4854 | -913.6663 | 237.3100 | 0.0000 |
| Beam 44: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -737.2855 | -825.6083 | 436.4517 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 44: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -678.2199 | -839.7875 | 278.6365 | 0.0000 |
| Beam 44: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -684.1292 | -870.6097 | 196.2771 | 0.0000 |
| Beam 44: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -734.4708 | -993.2977 | 256.7284 | 0.0000 |
| Beam 44: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -312.0661 | -461.8705 | 100.1183 | 0.0000 |
| Beam 44: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -677.3156 | -774.4822 | 231.2440 | 0.0000 |
| Beam 44: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -203.3775 | -290.7770 | 8.3180 | 0.0000 |
| Beam 44: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -658.0996 | -798.4632 | 259.3110 | 0.0000 |
| Beam 44: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -626.4634 | -540.1941 | 404.8891 | 0.0000 |
| Beam 44: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -635.9379 | -525.1499 | 379.5474 | 0.0000 |
| Beam 44: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -658.6500 | -845.5751 | 262.9908 | 0.0000 |
| Beam 44: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -637.7562 | -845.1750 | 222.5891 | 0.0000 |
| Beam 44: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -672.4951 | -761.7388 | 409.3831 | 0.0000 |
| Beam 44: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -613.4296 | -775.9181 | 251.5678 | 0.0000 |
| Beam 44: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -618.4001 | -802.1184 | 181.5561 | 0.0000 |
| Beam 44: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -668.7417 | -924.8064 | 242.0075 | 0.0000 |
| Beam 44: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -311.1273 | -457.2487 | 112.4661 | 0.0000 |
| Beam 44: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -611.5864 | -705.9908 | 216.5231 | 0.0000 |
| Beam 44: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -202.4387 | -286.1551 | 20.6658 | 0.0000 |
| Beam 44: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -593.3186 | -732.6123 | 242.2910 | 0.0000 |
| Beam 44: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -564.4273 | -484.2085 | 376.5282 | 0.0000 |
| Beam 44: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -571.3446 | -460.2233 | 360.0579 | 0.0000 |
| Beam 44: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -594.0567 | -780.6486 | 243.5013 | 0.0000 |
| Beam 44: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -670.6252 | -833.0027 | 229.0212 | 0.0000 |
| Beam 44: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -605.8442 | -767.1518 | 212.0013 | 0.0000 |
| Beam 44: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -282.4944 | -286.4885 | 107.7779 | 0.0000 |
| Beam 44: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -269.0433 | -273.5880 | 101.5903 | 0.0000 |
| Beam 44: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -246.5195 | -192.0400 | 184.3556 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 44: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -233.0684 | -179.1395 | 178.1680 |
| 0.0000 | | | | | |
| Beam 44: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -287.0679 | -269.5368 | 160.2019 |
| 0.0000 | | | | | |
| Beam 44: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -242.2309 | -226.5351 | 139.5767 |
| 0.0000 | | | | | |
| Beam 44: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -276.2755 | -241.2023 | 183.1752 |
| 0.0000 | | | | | |
| Beam 44: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -231.4385 | -198.2005 | 162.5500 |
| 0.0000 | | | | | |
| Beam 44: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -273.4283 | -277.0415 | 105.7474 |
| 0.0000 | | | | | |
| Beam 44: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -259.9772 | -264.1409 | 99.5599 |
| 0.0000 | | | | | |
| Beam 44: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -237.4534 | -182.5929 | 182.3251 |
| 0.0000 | | | | | |
| Beam 44: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -224.0023 | -169.6924 | 176.1376 |
| 0.0000 | | | | | |
| Beam 44: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -278.0018 | -260.0897 | 158.1714 |
| 0.0000 | | | | | |
| Beam 44: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -233.1648 | -217.0880 | 137.5462 |
| 0.0000 | | | | | |
| Beam 44: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -267.2094 | -231.7552 | 181.1447 |
| 0.0000 | | | | | |
| Beam 44: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | -222.3724 | -188.7534 | 160.5196 |
| 0.0000 | | | | | |
| Beam 44: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | -421.9635 | -473.4456 | 264.6068 |
| 0.0000 | | | | | |
| Beam 44: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -459.8041 | -681.6970 | 148.2581 |
| 0.0000 | | | | | |
| Beam 44: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -451.7854 | -493.3195 | 227.6188 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 44: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -387.7419 | -441.4638 | 254.5036 |
| 0.0000 | | | | | |
| Beam 44: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -424.5362 | -646.8017 | 140.6916 |
| 0.0000 | | | | | |
| Beam 44: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -415.5210 | -455.5312 | 219.4969 |
| 0.0000 | | | | | |
| Beam 44: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -499.8502 | -606.1211 | 224.9495 |
| 0.0000 | | | | | |
| Beam 44: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -455.1737 | -560.7067 | 213.2116 |
| 0.0000 | | | | | |
| Beam 44: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | -217.5969 | -308.4879 | 117.0691 |
| 0.0000 | | | | | |
| Beam 44: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -451.0063 | -563.7303 | 212.1555 |
| 0.0000 | | | | | |
| Beam 44: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -415.2650 | -527.3987 | 202.7652 |
| 0.0000 | | | | | |
| Beam 44: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 737.2855 | 993.2977 | 436.4517 |
| 0.0000 | | | | | |
| Beam 44: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 737.2855 | 993.2977 | 436.4517 |
| 0.0000 | | | | | |
| Beam 44: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 287.0679 | 286.4885 | 184.3556 |
| 0.0000 | | | | | |
| Beam 44: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 499.8502 | 681.6970 | 264.6068 |
| 0.0000 | | | | | |
| Beam 44: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 451.0063 | 563.7303 | 212.1555 |
| 0.0000 | | | | | |
| Beam 44: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 217.5969 | 308.4879 | 117.0691 |
| 0.0000 | | | | | |
| Beam 44: End 2: 1: PP | 0.0000 | 0.0000 | -233.7683 | -683.8151 | 172.4289 |
| | | | | | 0.0000 |
| Beam 44: End 2: 2: PERM | 0.0000 | 0.0000 | -111.1787 | -305.9116 | 65.2880 |
| | | | | | 0.0000 |
| Beam 44: End 2: 3: SPTSX | 0.0000 | 0.0000 | -2.2072 | -19.4659 | -41.8324 |
| | | | | | 0.0000 |
| Beam 44: End 2: 4: SPTDX | 0.0000 | 0.0000 | 6.2634 | 29.2000 | -3.4108 |
| | | | | | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 44: End 2: 5: SPTW | 0.0000 | 0.0000 | 57.5106 | 238.1595 | -75.4046 | 0.0000 | |
| Beam 44: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -338.6620 | -725.4492 | 109.0719 | 0.0000 | |
| Beam 44: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -275.7759 | -590.7406 | 88.8183 | 0.0000 | |
| Beam 44: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -3.5426 | -23.6084 | -46.7021 | 0.0000 | |
| Beam 44: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 6.8328 | 31.6582 | -3.8079 | 0.0000 | |
| Beam 44: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -2.8951 | -19.3008 | -38.1864 | 0.0000 | |
| Beam 44: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 5.5871 | 25.8870 | -3.1136 | 0.0000 | |
| Beam 44: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -81.1430 | -60.2214 | 0.0000 | |
| Beam 44: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -78.1908 | -58.0304 | 0.0000 | |
| Beam 44: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 44: End 2: 15: TERM | 0.0000 | 0.0000 | -7.5707 | -119.9057 | -38.8522 | 0.0000 | |
| Beam 44: End 2: 16: RITIRO | 0.0000 | 0.0000 | 5.6528 | 89.5296 | 29.0096 | 0.0000 | |
| Beam 44: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | -45.2878 | -189.6543 | 53.1424 | 0.0000 | |
| Beam 44: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -106.7917 | -79.8179 | 0.0000 | |
| Beam 44: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -32.0200 | -68.5902 | 10.3126 | 0.0000 | |
| Beam 44: End 2: 20: SPSSX | 0.0000 | 0.0000 | -3.0160 | -23.3051 | -48.6161 | 0.0000 | |
| Beam 44: End 2: 21: SPSDX | 0.0000 | 0.0000 | 7.2211 | 33.5933 | -3.9639 | 0.0000 | |
| Beam 44: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -943.0450 | -2337.9151 | 213.1782 | 0.0000 | |
| Beam 44: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -976.8451 | -2308.3312 | 412.3200 | 0.0000 | |
| Beam 44: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -917.7795 | -2220.3271 | 254.5047 | 0.0000 | |
| Beam 44: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -923.6888 | -2261.3723 | 172.1453 | 0.0000 | |
| Beam 44: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -974.0304 | -2471.1513 | 232.5966 | 0.0000 | |
| Beam 44: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -404.3768 | -1081.5936 | 100.1183 | 0.0000 | |
| Beam 44: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -916.8752 | -2153.4572 | 207.1123 | 0.0000 | |
| Beam 44: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -269.1607 | -699.5225 | 8.3180 | 0.0000 | |
| Beam 44: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -897.6592 | -2144.1946 | 259.3110 | 0.0000 | |
| Beam 44: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -866.0229 | -1831.1947 | 404.8891 | 0.0000 | |
| Beam 44: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -875.4975 | -1832.5414 | 379.5474 | 0.0000 | |
| Beam 44: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -898.2096 | -2192.2586 | 262.9908 | 0.0000 | |
| Beam 44: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -849.9732 | -2132.0609 | 199.3353 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 44: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -884.7120 | -2108.7230 | 386.1293 | 0.0000 |
| Beam 44: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -825.6465 | -2020.7189 | 228.3140 | 0.0000 |
| Beam 44: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -830.6170 | -2055.5182 | 158.3023 | 0.0000 |
| Beam 44: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -880.9586 | -2265.2971 | 218.7537 | 0.0000 |
| Beam 44: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -403.4380 | -1075.3477 | 112.4661 | 0.0000 |
| Beam 44: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -823.8034 | -1947.6030 | 193.2693 | 0.0000 |
| Beam 44: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -268.2219 | -693.2766 | 20.6658 | 0.0000 |
| Beam 44: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -805.5355 | -1942.6212 | 242.2910 | 0.0000 |
| Beam 44: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -776.6442 | -1644.2354 | 376.5282 | 0.0000 |
| Beam 44: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -783.5615 | -1632.2171 | 360.0579 | 0.0000 |
| Beam 44: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -806.2736 | -1991.9343 | 243.5013 | 0.0000 |
| Beam 44: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -910.1848 | -2200.4033 | 217.3943 | 0.0000 |
| Beam 44: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -818.0611 | -1998.8298 | 200.3744 | 0.0000 |
| Beam 44: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -371.4683 | -852.1662 | 85.2464 | 0.0000 |
| Beam 44: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -352.2563 | -811.0121 | 79.0588 | 0.0000 |
| Beam 44: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -335.4934 | -695.4812 | 200.2301 | 0.0000 |
| Beam 44: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -316.2814 | -654.3271 | 194.0425 | 0.0000 |
| Beam 44: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -382.7629 | -848.9405 | 151.1125 | 0.0000 |
| Beam 44: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -318.7229 | -711.7601 | 130.4873 | 0.0000 |
| Beam 44: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -371.9704 | -801.9350 | 185.6076 | 0.0000 |
| Beam 44: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -307.9304 | -664.7546 | 164.9824 | 0.0000 |
| Beam 44: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -358.6308 | -823.7725 | 83.3370 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 44: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -339.4188 | -782.6184 | 77.1494 |
| Beam 44: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -322.6559 | -667.0875 | 198.3207 |
| Beam 44: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -303.4439 | -625.9334 | 192.1331 |
| Beam 44: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -369.9254 | -820.5468 | 149.2031 |
| Beam 44: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -305.8854 | -683.3664 | 128.5779 |
| Beam 44: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -359.1329 | -773.5413 | 183.6982 |
| Beam 44: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -295.0929 | -636.3609 | 163.0730 |
| Beam 44: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -568.9876 | -1330.6183 | 277.9209 |
| Beam 44: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -606.8281 | -1604.3339 | 134.9440 |
| Beam 44: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -598.8094 | -1402.0840 | 214.3047 |
| Beam 44: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -519.6803 | -1226.3840 | 267.3333 |
| Beam 44: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -556.4747 | -1495.3761 | 127.8620 |
| Beam 44: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -547.4594 | -1288.5093 | 206.6672 |
| Beam 44: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -667.1845 | -1615.6061 | 216.9310 |
| Beam 44: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -603.6509 | -1476.5899 | 205.1931 |
| Beam 44: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | -283.3802 | -741.8331 | 117.0691 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 44: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -598.0303 | -1471.1470 | 205.4984 | 0.0000 |
| Beam 44: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -547.2035 | -1359.9340 | 196.1081 | 0.0000 |
| Beam 44: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 976.8451 | 2471.1513 | 412.3200 | 0.0000 |
| Beam 44: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 976.8451 | 2471.1513 | 412.3200 | 0.0000 |
| Beam 44: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 382.7629 | 852.1662 | 200.2301 | 0.0000 |
| Beam 44: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 667.1845 | 1615.6061 | 277.9209 | 0.0000 |
| Beam 44: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 598.0303 | 1471.1470 | 205.4984 | 0.0000 |
| Beam 44: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 283.3802 | 741.8331 | 117.0691 | 0.0000 |
| Beam 45: End 1: 1: PP | 0.0000 | 0.0000 | 233.7683 | -683.8151 | 172.4289 | 0.0000 |
| Beam 45: End 1: 2: PERM | 0.0000 | 0.0000 | 111.1787 | -305.9116 | 65.2880 | 0.0000 |
| Beam 45: End 1: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | 29.2000 | -3.4108 | 0.0000 |
| Beam 45: End 1: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -19.4659 | -41.8324 | 0.0000 |
| Beam 45: End 1: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | 238.1595 | -75.4046 | 0.0000 |
| Beam 45: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 338.6620 | -725.4492 | 109.0719 | 0.0000 |
| Beam 45: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 275.7759 | -590.7406 | 88.8183 | 0.0000 |
| Beam 45: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | 31.6582 | -3.8079 | 0.0000 |
| Beam 45: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | -23.6084 | -46.7021 | 0.0000 |
| Beam 45: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | 25.8870 | -3.1136 | 0.0000 |
| Beam 45: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | -19.3008 | -38.1864 | 0.0000 |
| Beam 45: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 81.1430 | 60.2214 | 0.0000 |
| Beam 45: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 78.1908 | 58.0304 | 0.0000 |
| Beam 45: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 45: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -119.9057 | -38.8522 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLS0900001</p> | <p>A</p> |

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|--|--------|--------|----------|------------|----------|--------|--|
| Beam 45: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 89.5296 | 29.0096 | 0.0000 | |
| Beam 45: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | -189.6543 | 53.1424 | 0.0000 | |
| Beam 45: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 106.7917 | 79.8179 | 0.0000 | |
| Beam 45: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 32.0200 | -68.5902 | 10.3126 | 0.0000 | |
| Beam 45: End 1: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | 33.5933 | -3.9639 | 0.0000 | |
| Beam 45: End 1: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -23.3051 | -48.6161 | 0.0000 | |
| Beam 45: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 875.8809 | -2022.4639 | 450.0170 | 0.0000 | |
| Beam 45: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 924.7253 | -2073.0166 | 586.9621 | 0.0000 | |
| Beam 45: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 865.6598 | -1985.0124 | 429.1469 | 0.0000 | |
| Beam 45: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 853.5600 | -1928.8881 | 422.4316 | 0.0000 | |
| Beam 45: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 906.8664 | -2155.7001 | 469.4354 | 0.0000 | |
| Beam 45: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 389.3325 | -1001.4571 | 162.3150 | 0.0000 | |
| Beam 45: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 846.7464 | -1820.9730 | 457.3986 | 0.0000 | |
| Beam 45: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 251.1517 | -602.3529 | 83.9622 | 0.0000 | |
| Beam 45: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 879.6502 | -2047.0250 | 334.9551 | 0.0000 | |
| Beam 45: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 884.0320 | -1928.3643 | 329.2449 | 0.0000 | |
| Beam 45: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 866.4268 | -1785.4652 | 415.8571 | 0.0000 | |
| Beam 45: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 889.1389 | -2145.1824 | 299.3006 | 0.0000 | |
| Beam 45: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 787.4504 | -1839.7852 | 418.4792 | 0.0000 | |
| Beam 45: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 834.4885 | -1881.9697 | 554.4175 | 0.0000 | |
| Beam 45: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 775.4230 | -1793.9656 | 396.6022 | 0.0000 | |
| Beam 45: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 765.1295 | -1746.2094 | 390.8938 | 0.0000 | |
| Beam 45: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 818.4358 | -1973.0214 | 437.8976 | 0.0000 | |
| Beam 45: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 391.1387 | -1009.8252 | 163.3218 | 0.0000 | |
| Beam 45: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 758.3158 | -1638.2943 | 425.8608 | 0.0000 | |
| Beam 45: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 252.9579 | -610.7211 | 84.9690 | 0.0000 | |
| Beam 45: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 790.2715 | -1860.0657 | 306.5943 | 0.0000 | |
| Beam 45: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 791.9083 | -1726.7909 | 312.2250 | 0.0000 | |
| Beam 45: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 776.6868 | -1596.8323 | 387.2949 | 0.0000 | |
| Beam 45: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 799.3989 | -1956.5494 | 270.7384 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |


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|--|--------|--------|----------|------------|----------|--------|
| Beam 45: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 867.0640 | -1989.8571 | 377.1826 | 0.0000 |
| Beam 45: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 777.6853 | -1802.8977 | 348.8217 | 0.0000 |
| Beam 45: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 326.2294 | -651.9707 | 232.8975 | 0.0000 |
| Beam 45: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 307.0174 | -610.8166 | 226.7099 | 0.0000 |
| Beam 45: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 362.2043 | -808.6557 | 117.9138 | 0.0000 |
| Beam 45: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 342.9923 | -767.5016 | 111.7262 | 0.0000 |
| Beam 45: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 362.7064 | -758.4244 | 218.2750 | 0.0000 |
| Beam 45: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 298.6664 | -621.2441 | 197.6498 | 0.0000 |
| Beam 45: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 373.4989 | -805.4299 | 183.7799 | 0.0000 |
| Beam 45: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 309.4589 | -668.2496 | 163.1547 | 0.0000 |
| Beam 45: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 314.0321 | -626.7736 | 228.5474 | 0.0000 |
| Beam 45: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 294.8201 | -585.6195 | 222.3599 | 0.0000 |
| Beam 45: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 350.0069 | -783.4587 | 113.5637 | 0.0000 |
| Beam 45: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 330.7949 | -742.3045 | 107.3762 | 0.0000 |
| Beam 45: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 350.5091 | -733.2274 | 213.9250 | 0.0000 |
| Beam 45: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | 286.4691 | -596.0470 | 193.2998 | 0.0000 |
| Beam 45: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | 361.3015 | -780.2329 | 179.4298 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 45: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 297.2615 | -643.0525 | 158.8047 |
| 0.0000 | | | | | |
| Beam 45: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 597.7433 | -1460.4470 | 181.5666 |
| 0.0000 | | | | | |
| Beam 45: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 578.0724 | -1474.5051 | 231.2983 |
| 0.0000 | | | | | |
| Beam 45: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 560.0593 | -1218.3088 | 352.6587 |
| 0.0000 | | | | | |
| Beam 45: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 547.3898 | -1351.4893 | 174.4846 |
| 0.0000 | | | | | |
| Beam 45: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 528.7652 | -1370.2709 | 220.7106 |
| 0.0000 | | | | | |
| Beam 45: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 511.2700 | -1117.5205 | 335.2585 |
| 0.0000 | | | | | |
| Beam 45: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 637.7965 | -1472.4156 | 325.5399 |
| 0.0000 | | | | | |
| Beam 45: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 576.1561 | -1343.4781 | 305.9807 |
| 0.0000 | | | | | |
| Beam 45: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 283.3802 | -741.8331 | 117.0691 |
| 0.0000 | | | | | |
| Beam 45: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 573.6581 | -1352.2861 | 295.6753 |
| 0.0000 | | | | | |
| Beam 45: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 524.3457 | -1249.1362 | 280.0279 |
| 0.0000 | | | | | |
| Beam 45: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 924.7253 | 2155.7001 | 586.9621 |
| 0.0000 | | | | | |
| Beam 45: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 924.7253 | 2155.7001 | 586.9621 |
| 0.0000 | | | | | |
| Beam 45: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 373.4989 | 808.6557 | 232.8975 |
| 0.0000 | | | | | |
| Beam 45: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 637.7965 | 1474.5051 | 352.6587 |
| 0.0000 | | | | | |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|-----------|----------|--------|
| Beam 45: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 573.6581 | 1352.2861 | 295.6753 | |
| 0.0000 | | | | | | |
| Beam 45: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 283.3802 | 741.8331 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 45: End 2: 1: PP | 0.0000 | 0.0000 | 191.3400 | -316.0964 | 172.4289 | 0.0000 |
| Beam 45: End 2: 2: PERM | 0.0000 | 0.0000 | 87.8237 | -133.7746 | 65.2880 | 0.0000 |
| Beam 45: End 2: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | 18.3643 | -3.4108 | 0.0000 |
| Beam 45: End 2: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -15.6474 | -41.8324 | 0.0000 |
| Beam 45: End 2: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | 138.6662 | -75.4046 | 0.0000 |
| Beam 45: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 237.1110 | -227.4055 | 109.0719 | 0.0000 |
| Beam 45: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 193.0819 | -185.1786 | 88.8183 | 0.0000 |
| Beam 45: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | 19.8375 | -3.8079 | 0.0000 |
| Beam 45: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | -17.4797 | -46.7021 | 0.0000 |
| Beam 45: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | 16.2213 | -3.1136 | 0.0000 |
| Beam 45: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | -14.2922 | -38.1864 | 0.0000 |
| Beam 45: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 50.0508 | 43.5788 | 0.0000 |
| Beam 45: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 48.2299 | 41.9933 | 0.0000 |
| Beam 45: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 45: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -106.8084 | -38.8522 | 0.0000 |
| Beam 45: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 79.7503 | 29.0096 | 0.0000 |
| Beam 45: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | -111.3064 | 53.1424 | 0.0000 |
| Beam 45: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 66.8184 | 60.6149 | 0.0000 |
| Beam 45: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 22.4185 | -21.5009 | 10.3126 | 0.0000 |
| Beam 45: End 2: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | 21.1008 | -3.9639 | 0.0000 |
| Beam 45: End 2: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -18.0874 | -48.6161 | 0.0000 |
| Beam 45: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 636.3214 | -714.4089 | 425.8853 | 0.0000 |
| Beam 45: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 685.1657 | -680.4608 | 562.8304 | 0.0000 |
| Beam 45: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 626.1002 | -694.6401 | 405.0151 | 0.0000 |
| Beam 45: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 614.0005 | -659.4483 | 398.2999 | 0.0000 |
| Beam 45: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 667.3068 | -794.0403 | 445.3037 | 0.0000 |
| Beam 45: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 297.0218 | -407.7606 | 162.3150 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|----------|--------|
| Beam 45: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 607.1868 | -563.3207 | 433.2668 | 0.0000 |
| Beam 45: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 185.3685 | -224.7630 | 83.9622 | 0.0000 |
| Beam 45: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 640.0906 | -732.4492 | 334.9551 | 0.0000 |
| Beam 45: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 644.4724 | -606.2081 | 329.2449 | 0.0000 |
| Beam 45: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 626.8672 | -493.7660 | 415.8571 | 0.0000 |
| Beam 45: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 649.5793 | -814.1912 | 299.3006 | 0.0000 |
| Beam 45: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 575.2334 | -661.0637 | 395.2254 | 0.0000 |
| Beam 45: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 622.2716 | -621.8722 | 531.1637 | 0.0000 |
| Beam 45: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 563.2061 | -636.0515 | 373.3485 | 0.0000 |
| Beam 45: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 552.9125 | -606.1031 | 367.6400 | 0.0000 |
| Beam 45: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 606.2189 | -740.6952 | 414.6438 | 0.0000 |
| Beam 45: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 298.8280 | -413.0040 | 163.3218 | 0.0000 |
| Beam 45: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 546.0989 | -509.9755 | 402.6070 | 0.0000 |
| Beam 45: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 187.1747 | -230.0064 | 84.9690 | 0.0000 |
| Beam 45: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 578.0546 | -676.4636 | 306.5943 | 0.0000 |
| Beam 45: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 579.6913 | -540.3572 | 312.2250 | 0.0000 |
| Beam 45: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 564.4699 | -436.7317 | 387.2949 | 0.0000 |
| Beam 45: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 587.1820 | -757.1569 | 270.7384 | 0.0000 |
| Beam 45: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 627.5045 | -697.0553 | 365.5557 | 0.0000 |
| Beam 45: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 565.4684 | -641.0698 | 337.1948 | 0.0000 |
| Beam 45: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 237.2555 | -164.5562 | 210.3660 | 0.0000 |
| Beam 45: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 223.8044 | -151.6557 | 204.1784 | 0.0000 |
| Beam 45: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 273.2304 | -259.0048 | 133.7883 | 0.0000 |
| Beam 45: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 259.7793 | -246.1042 | 127.6007 | 0.0000 |
| Beam 45: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 267.0115 | -213.7185 | 209.1856 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|----------|
| Beam 45: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 222.1745 | -170.7168 | 188.5604 |
| Beam 45: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 277.8039 | -242.0530 | 186.2123 |
| Beam 45: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 232.9669 | -199.0513 | 165.5871 |
| Beam 45: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 228.8296 | -157.1983 | 206.1370 |
| Beam 45: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 215.3785 | -144.2977 | 199.9495 |
| Beam 45: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 264.8044 | -251.6468 | 129.5593 |
| Beam 45: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 251.3533 | -238.7463 | 123.3718 |
| Beam 45: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 258.5855 | -206.3605 | 204.9566 |
| Beam 45: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 213.7485 | -163.3588 | 184.3315 |
| Beam 45: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 269.3780 | -234.6951 | 181.9833 |
| Beam 45: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 224.5410 | -191.6934 | 161.3581 |
| Beam 45: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 450.7192 | -553.5270 | 194.8807 |
| Beam 45: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 431.0483 | -601.6157 | 217.9842 |
| Beam 45: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 413.0352 | -376.5821 | 339.3446 |
| Beam 45: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 415.4514 | -518.6316 | 187.3143 |
| Beam 45: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 396.8267 | -569.6339 | 207.8810 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|----------|--------|
| Beam 45: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 379.3315 | -347.1502 | 322.4288 | 0.0000 |
| Beam 45: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 470.4623 | -513.7717 | 317.5214 | 0.0000 |
| Beam 45: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 427.6788 | -475.1609 | 297.9622 | 0.0000 |
| Beam 45: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 217.5969 | -308.4879 | 117.0691 | 0.0000 |
| Beam 45: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 426.6340 | -487.0335 | 289.0182 | 0.0000 |
| Beam 45: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 392.4072 | -456.1449 | 273.3709 | 0.0000 |
| Beam 45: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 685.1657 | 814.1912 | 562.8304 | 0.0000 |
| Beam 45: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 685.1657 | 814.1912 | 562.8304 | 0.0000 |
| Beam 45: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 277.8039 | 259.0048 | 210.3660 | 0.0000 |
| Beam 45: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 470.4623 | 601.6157 | 339.3446 | 0.0000 |
| Beam 45: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 426.6340 | 487.0335 | 289.0182 | 0.0000 |
| Beam 45: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 217.5969 | 308.4879 | 117.0691 | 0.0000 |
| Beam 46: End 1: 1: PP | 0.0000 | 0.0000 | 191.3400 | -316.0964 | 172.4289 | 0.0000 |
| Beam 46: End 1: 2: PERM | 0.0000 | 0.0000 | 87.8237 | -133.7746 | 65.2880 | 0.0000 |
| Beam 46: End 1: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | 18.3643 | -3.4108 | 0.0000 |
| Beam 46: End 1: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -15.6474 | -41.8324 | 0.0000 |
| Beam 46: End 1: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | 138.6662 | -75.4046 | 0.0000 |
| Beam 46: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 237.1110 | -227.4055 | 109.0719 | 0.0000 |
| Beam 46: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 193.0819 | -185.1786 | 88.8183 | 0.0000 |
| Beam 46: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | 19.8375 | -3.8079 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|----------|--------|
| Beam 46: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | -17.4797 | -46.7021 | 0.0000 |
| Beam 46: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | 16.2213 | -3.1136 | 0.0000 |
| Beam 46: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | -14.2922 | -38.1864 | 0.0000 |
| Beam 46: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 50.0508 | 43.5788 | 0.0000 |
| Beam 46: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 48.2299 | 41.9933 | 0.0000 |
| Beam 46: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 46: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -106.8084 | -38.8522 | 0.0000 |
| Beam 46: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 79.7503 | 29.0096 | 0.0000 |
| Beam 46: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | -111.3064 | 53.1424 | 0.0000 |
| Beam 46: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 66.8184 | 60.6149 | 0.0000 |
| Beam 46: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 22.4185 | -21.5009 | 10.3126 | 0.0000 |
| Beam 46: End 1: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | 21.1008 | -3.9639 | 0.0000 |
| Beam 46: End 1: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -18.0874 | -48.6161 | 0.0000 |
| Beam 46: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 636.3214 | -714.4089 | 425.8853 | 0.0000 |
| Beam 46: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 685.1657 | -680.4608 | 562.8304 | 0.0000 |
| Beam 46: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 626.1002 | -694.6401 | 405.0151 | 0.0000 |
| Beam 46: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 614.0005 | -659.4483 | 398.2999 | 0.0000 |
| Beam 46: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 667.3068 | -794.0403 | 445.3037 | 0.0000 |
| Beam 46: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 297.0218 | -407.7606 | 162.3150 | 0.0000 |
| Beam 46: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 607.1868 | -563.3207 | 433.2668 | 0.0000 |
| Beam 46: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 185.3685 | -224.7630 | 83.9622 | 0.0000 |
| Beam 46: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 640.0906 | -732.4492 | 334.9551 | 0.0000 |
| Beam 46: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 644.4724 | -606.2081 | 329.2449 | 0.0000 |
| Beam 46: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 626.8672 | -493.7660 | 415.8571 | 0.0000 |
| Beam 46: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 649.5793 | -814.1912 | 299.3006 | 0.0000 |
| Beam 46: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 575.2334 | -661.0637 | 395.2254 | 0.0000 |
| Beam 46: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 622.2716 | -621.8722 | 531.1637 | 0.0000 |
| Beam 46: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 563.2061 | -636.0515 | 373.3485 | 0.0000 |
| Beam 46: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 552.9125 | -606.1031 | 367.6400 | 0.0000 |
| Beam 46: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 606.2189 | -740.6952 | 414.6438 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|-----------|----------|--------|
| Beam 46: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 298.8280 | -413.0040 | 163.3218 | 0.0000 |
| Beam 46: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 546.0989 | -509.9755 | 402.6070 | 0.0000 |
| Beam 46: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 187.1747 | -230.0064 | 84.9690 | 0.0000 |
| Beam 46: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 578.0546 | -676.4636 | 306.5943 | 0.0000 |
| Beam 46: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 579.6913 | -540.3572 | 312.2250 | 0.0000 |
| Beam 46: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 564.4699 | -436.7317 | 387.2949 | 0.0000 |
| Beam 46: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 587.1820 | -757.1569 | 270.7384 | 0.0000 |
| Beam 46: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 627.5045 | -697.0553 | 365.5557 | 0.0000 |
| Beam 46: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 565.4684 | -641.0698 | 337.1948 | 0.0000 |
| Beam 46: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 237.2555 | -164.5562 | 210.3660 | 0.0000 |
| Beam 46: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 223.8044 | -151.6557 | 204.1784 | 0.0000 |
| Beam 46: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 273.2304 | -259.0048 | 133.7883 | 0.0000 |
| Beam 46: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 259.7793 | -246.1042 | 127.6007 | 0.0000 |
| Beam 46: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 267.0115 | -213.7185 | 209.1856 | 0.0000 |
| Beam 46: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 222.1745 | -170.7168 | 188.5604 | 0.0000 |
| Beam 46: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 277.8039 | -242.0530 | 186.2123 | 0.0000 |
| Beam 46: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 232.9669 | -199.0513 | 165.5871 | 0.0000 |
| Beam 46: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 228.8296 | -157.1983 | 206.1370 | 0.0000 |
| Beam 46: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 215.3785 | -144.2977 | 199.9495 | 0.0000 |
| Beam 46: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 264.8044 | -251.6468 | 129.5593 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|----------|
| Beam 46: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 251.3533 | -238.7463 | 123.3718 |
| Beam 46: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 258.5855 | -206.3605 | 204.9566 |
| Beam 46: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 213.7485 | -163.3588 | 184.3315 |
| Beam 46: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 269.3780 | -234.6951 | 181.9833 |
| Beam 46: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 224.5410 | -191.6934 | 161.3581 |
| Beam 46: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 450.7192 | -553.5270 | 194.8807 |
| Beam 46: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 431.0483 | -601.6157 | 217.9842 |
| Beam 46: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 413.0352 | -376.5821 | 339.3446 |
| Beam 46: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 415.4514 | -518.6316 | 187.3143 |
| Beam 46: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 396.8267 | -569.6339 | 207.8810 |
| Beam 46: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 379.3315 | -347.1502 | 322.4288 |
| Beam 46: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 470.4623 | -513.7717 | 317.5214 |
| Beam 46: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 427.6788 | -475.1609 | 297.9622 |
| Beam 46: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 217.5969 | -308.4879 | 117.0691 |
| Beam 46: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 426.6340 | -487.0335 | 289.0182 |
| Beam 46: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 392.4072 | -456.1449 | 273.3709 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|----------|----------|--------|
| Beam 46: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 685.1657 | 814.1912 | 562.8304 | 0.0000 |
| Beam 46: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 685.1657 | 814.1912 | 562.8304 | 0.0000 |
| Beam 46: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 277.8039 | 259.0048 | 210.3660 | 0.0000 |
| Beam 46: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 470.4623 | 601.6157 | 339.3446 | 0.0000 |
| Beam 46: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 426.6340 | 487.0335 | 289.0182 | 0.0000 |
| Beam 46: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 217.5969 | 308.4879 | 117.0691 | 0.0000 |
| Beam 46: End 2: 1: PP | 0.0000 | 0.0000 | 149.1570 | -23.2689 | 172.4289 | 0.0000 |
| Beam 46: End 2: 2: PERM | 0.0000 | 0.0000 | 64.6037 | -2.6871 | 65.2880 | 0.0000 |
| Beam 46: End 2: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | 7.5912 | -3.4108 | 0.0000 |
| Beam 46: End 2: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -11.8510 | -41.8324 | 0.0000 |
| Beam 46: End 2: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | 39.7479 | -75.4046 | 0.0000 |
| Beam 46: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 136.1470 | 93.5965 | 109.0719 | 0.0000 |
| Beam 46: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 110.8659 | 76.2165 | 88.8183 | 0.0000 |
| Beam 46: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | 8.0851 | -3.8079 | 0.0000 |
| Beam 46: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | -11.3865 | -46.7021 | 0.0000 |
| Beam 46: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | 6.6114 | -3.1136 | 0.0000 |
| Beam 46: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | -9.3126 | -38.1864 | 0.0000 |
| Beam 46: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 19.1384 | 27.0324 | 0.0000 |
| Beam 46: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 18.4421 | 26.0489 | 0.0000 |
| Beam 46: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 46: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -93.7868 | -38.8522 | 0.0000 |
| Beam 46: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 70.0275 | 29.0096 | 0.0000 |
| Beam 46: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | -33.4115 | 53.1424 | 0.0000 |
| Beam 46: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 27.0761 | 41.5229 | 0.0000 |
| Beam 46: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 12.8725 | 8.8494 | 10.3126 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|--------|--|
| Beam 46: End 2: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | 8.6804 | -3.9639 | 0.0000 | |
| Beam 46: End 2: 21: SPSPDX | 0.0000 | 0.0000 | 3.0160 | -12.8999 | -48.6161 | 0.0000 | |
| Beam 46: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 398.1465 | 175.2335 | 401.8930 | 0.0000 | |
| Beam 46: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 446.9909 | 293.1939 | 538.8381 | 0.0000 | |
| Beam 46: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 387.9253 | 177.4219 | 381.0228 | 0.0000 | |
| Beam 46: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 375.8256 | 191.8021 | 374.3076 | 0.0000 | |
| Beam 46: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 429.1319 | 148.8970 | 421.3114 | 0.0000 | |
| Beam 46: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 205.2448 | 24.1887 | 162.3150 | 0.0000 | |
| Beam 46: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 369.0120 | 276.2103 | 409.2746 | 0.0000 | |
| Beam 46: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 119.9655 | 37.8242 | 83.9622 | 0.0000 | |
| Beam 46: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 401.9158 | 163.6763 | 334.9551 | 0.0000 | |
| Beam 46: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 406.2975 | 297.4540 | 329.2449 | 0.0000 | |
| Beam 46: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 388.6923 | 379.6152 | 415.8571 | 0.0000 | |
| Beam 46: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 411.4044 | 98.2548 | 299.3006 | 0.0000 | |
| Beam 46: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 364.2432 | 146.8861 | 372.1060 | 0.0000 | |
| Beam 46: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 411.2814 | 266.9833 | 508.0443 | 0.0000 | |
| Beam 46: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 352.2158 | 151.2114 | 350.2291 | 0.0000 | |
| Beam 46: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 341.9223 | 163.4548 | 344.5206 | 0.0000 | |
| Beam 46: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 395.2286 | 120.5497 | 391.5244 | 0.0000 | |
| Beam 46: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 207.0510 | 22.0519 | 163.3218 | 0.0000 | |
| Beam 46: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 335.1086 | 247.8629 | 379.4876 | 0.0000 | |
| Beam 46: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 121.7717 | 35.6874 | 84.9690 | 0.0000 | |
| Beam 46: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 367.0643 | 136.3386 | 306.5943 | 0.0000 | |
| Beam 46: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 368.7011 | 275.2603 | 312.2250 | 0.0000 | |
| Beam 46: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 353.4796 | 352.7048 | 387.2949 | 0.0000 | |
| Beam 46: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 376.1917 | 71.3444 | 270.7384 | 0.0000 | |
| Beam 46: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 389.3296 | 177.4219 | 353.9960 | 0.0000 | |
| Beam 46: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 354.4781 | 150.0843 | 325.6352 | 0.0000 | |
| Beam 46: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 148.7959 | 167.4480 | 187.9647 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 46: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | 141.0724 | 162.1384 | 181.7771 |
| Beam 46: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | 184.7708 | 134.8762 | 149.5710 |
| Beam 46: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | 177.0473 | 129.5666 | 143.3834 |
| Beam 46: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | 171.8697 | 163.7193 | 200.1487 |
| Beam 46: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 146.1247 | 146.0205 | 179.5235 |
| Beam 46: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 182.6621 | 153.9477 | 188.6306 |
| Beam 46: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 156.9171 | 136.2489 | 168.0054 |
| Beam 46: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 144.1196 | 163.5381 | 183.8561 |
| Beam 46: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 136.3961 | 158.2284 | 177.6686 |
| Beam 46: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 180.0944 | 130.9662 | 145.4624 |
| Beam 46: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 172.3709 | 125.6566 | 139.2749 |
| Beam 46: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 167.1933 | 159.8093 | 196.0402 |
| Beam 46: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 141.4483 | 142.1105 | 175.4150 |
| Beam 46: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 177.9858 | 150.0378 | 184.5220 |
| Beam 46: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 152.2408 | 132.3390 | 163.8969 |
| Beam 46: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 304.5450 | 96.0003 | 208.1178 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|----------|----------|
| Beam 46: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | 284.8741 | 14.0777 | 204.7471 |
| 0.0000 | | | | | |
| Beam 46: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | 266.8610 | 208.1287 | 326.1075 |
| 0.0000 | | | | | |
| Beam 46: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 284.2756 | 83.1336 | 200.0698 |
| 0.0000 | | | | | |
| Beam 46: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 265.6509 | 0.0969 | 195.1254 |
| 0.0000 | | | | | |
| Beam 46: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | 248.1557 | 192.4888 | 309.6733 |
| 0.0000 | | | | | |
| Beam 46: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | 304.0953 | 152.3478 | 309.5492 |
| 0.0000 | | | | | |
| Beam 46: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 280.0598 | 133.4943 | 289.9900 |
| 0.0000 | | | | | |
| Beam 46: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 152.1939 | 9.5322 | 117.0691 |
| 0.0000 | | | | | |
| Beam 46: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 280.4598 | 121.0672 | 282.3997 |
| 0.0000 | | | | | |
| Beam 46: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 261.2314 | 105.9843 | 266.7523 |
| 0.0000 | | | | | |
| Beam 46: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 446.9909 | 379.6152 | 538.8381 |
| 0.0000 | | | | | |
| Beam 46: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 446.9909 | 379.6152 | 538.8381 |
| 0.0000 | | | | | |
| Beam 46: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 184.7708 | 167.4480 | 200.1487 |
| 0.0000 | | | | | |
| Beam 46: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 304.5450 | 208.1287 | 326.1075 |
| 0.0000 | | | | | |
| Beam 46: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 280.4598 | 121.0672 | 282.3997 |
| 0.0000 | | | | | |
| Beam 46: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 152.1939 | 9.5322 | 117.0691 |
| 0.0000 | | | | | |
| Beam 47: End 1: 1: PP | 0.0000 | 0.0000 | 149.1570 | -23.2689 | 172.4289 |
| | | | | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|--------|--|
| Beam 47: End 1: 2: PERM | 0.0000 | 0.0000 | 64.6037 | -2.6871 | 65.2880 | 0.0000 | |
| Beam 47: End 1: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | 7.5912 | -3.4108 | 0.0000 | |
| Beam 47: End 1: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -11.8510 | -41.8324 | 0.0000 | |
| Beam 47: End 1: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | 39.7479 | -75.4046 | 0.0000 | |
| Beam 47: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 136.1470 | 93.5965 | 109.0719 | 0.0000 | |
| Beam 47: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 110.8659 | 76.2165 | 88.8183 | 0.0000 | |
| Beam 47: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | 8.0851 | -3.8079 | 0.0000 | |
| Beam 47: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | -11.3865 | -46.7021 | 0.0000 | |
| Beam 47: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | 6.6114 | -3.1136 | 0.0000 | |
| Beam 47: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | -9.3126 | -38.1864 | 0.0000 | |
| Beam 47: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | 19.1384 | 27.0324 | 0.0000 | |
| Beam 47: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | 18.4421 | 26.0489 | 0.0000 | |
| Beam 47: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 47: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -93.7868 | -38.8522 | 0.0000 | |
| Beam 47: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 70.0275 | 29.0096 | 0.0000 | |
| Beam 47: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | -33.4115 | 53.1424 | 0.0000 | |
| Beam 47: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | 27.0761 | 41.5229 | 0.0000 | |
| Beam 47: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 12.8725 | 8.8494 | 10.3126 | 0.0000 | |
| Beam 47: End 1: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | 8.6804 | -3.9639 | 0.0000 | |
| Beam 47: End 1: 21: SPSSDX | 0.0000 | 0.0000 | 3.0160 | -12.8999 | -48.6161 | 0.0000 | |
| Beam 47: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 398.1465 | 175.2335 | 401.8930 | 0.0000 | |
| Beam 47: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 446.9909 | 293.1939 | 538.8381 | 0.0000 | |
| Beam 47: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 387.9253 | 177.4219 | 381.0228 | 0.0000 | |
| Beam 47: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 375.8256 | 191.8021 | 374.3076 | 0.0000 | |
| Beam 47: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 429.1319 | 148.8970 | 421.3114 | 0.0000 | |
| Beam 47: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 205.2448 | 24.1887 | 162.3150 | 0.0000 | |
| Beam 47: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 369.0120 | 276.2103 | 409.2746 | 0.0000 | |
| Beam 47: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 119.9655 | 37.8242 | 83.9622 | 0.0000 | |
| Beam 47: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 401.9158 | 163.6763 | 334.9551 | 0.0000 | |
| Beam 47: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 406.2975 | 297.4540 | 329.2449 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|----------|--------|
| Beam 47: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 388.6923 | 379.6152 | 415.8571 | 0.0000 |
| Beam 47: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 411.4044 | 98.2548 | 299.3006 | 0.0000 |
| Beam 47: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 364.2432 | 146.8861 | 372.1060 | 0.0000 |
| Beam 47: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 411.2814 | 266.9833 | 508.0443 | 0.0000 |
| Beam 47: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 352.2158 | 151.2114 | 350.2291 | 0.0000 |
| Beam 47: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 341.9223 | 163.4548 | 344.5206 | 0.0000 |
| Beam 47: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 395.2286 | 120.5497 | 391.5244 | 0.0000 |
| Beam 47: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 207.0510 | 22.0519 | 163.3218 | 0.0000 |
| Beam 47: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 335.1086 | 247.8629 | 379.4876 | 0.0000 |
| Beam 47: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 121.7717 | 35.6874 | 84.9690 | 0.0000 |
| Beam 47: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 367.0643 | 136.3386 | 306.5943 | 0.0000 |
| Beam 47: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 368.7011 | 275.2603 | 312.2250 | 0.0000 |
| Beam 47: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 353.4796 | 352.7048 | 387.2949 | 0.0000 |
| Beam 47: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 376.1917 | 71.3444 | 270.7384 | 0.0000 |
| Beam 47: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 389.3296 | 177.4219 | 353.9960 | 0.0000 |
| Beam 47: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 354.4781 | 150.0843 | 325.6352 | 0.0000 |
| Beam 47: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 148.7959 | 167.4480 | 187.9647 | 0.0000 |
| Beam 47: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 141.0724 | 162.1384 | 181.7771 | 0.0000 |
| Beam 47: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 184.7708 | 134.8762 | 149.5710 | 0.0000 |
| Beam 47: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 177.0473 | 129.5666 | 143.3834 | 0.0000 |
| Beam 47: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 171.8697 | 163.7193 | 200.1487 | 0.0000 |
| Beam 47: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 146.1247 | 146.0205 | 179.5235 | 0.0000 |
| Beam 47: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 182.6621 | 153.9477 | 188.6306 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 47: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 156.9171 | 136.2489 | 168.0054 |
| Beam 47: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 144.1196 | 163.5381 | 183.8561 |
| Beam 47: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 136.3961 | 158.2284 | 177.6686 |
| Beam 47: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 180.0944 | 130.9662 | 145.4624 |
| Beam 47: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 172.3709 | 125.6566 | 139.2749 |
| Beam 47: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 167.1933 | 159.8093 | 196.0402 |
| Beam 47: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 141.4483 | 142.1105 | 175.4150 |
| Beam 47: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 177.9858 | 150.0378 | 184.5220 |
| Beam 47: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 152.2408 | 132.3390 | 163.8969 |
| Beam 47: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 304.5450 | 96.0003 | 208.1178 |
| Beam 47: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 284.8741 | 14.0777 | 204.7471 |
| Beam 47: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 266.8610 | 208.1287 | 326.1075 |
| Beam 47: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 284.2756 | 83.1336 | 200.0698 |
| Beam 47: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 265.6509 | 0.0969 | 195.1254 |
| Beam 47: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 248.1557 | 192.4888 | 309.6733 |
| Beam 47: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 304.0953 | 152.3478 | 309.5492 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 47: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 280.0598 | 133.4943 | 289.9900 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 152.1939 | 9.5322 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 280.4598 | 121.0672 | 282.3997 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 261.2314 | 105.9843 | 266.7523 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 446.9909 | 379.6152 | 538.8381 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 446.9909 | 379.6152 | 538.8381 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 184.7708 | 167.4480 | 200.1487 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 304.5450 | 208.1287 | 326.1075 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 280.4598 | 121.0672 | 282.3997 | |
| 0.0000 | | | | | | |
| Beam 47: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 152.1939 | 9.5322 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 47: End 2: 1: PP | 0.0000 | 0.0000 | 106.7288 | 198.0723 | 172.4289 | 0.0000 |
| Beam 47: End 2: 2: PERM | 0.0000 | 0.0000 | 41.2487 | 88.8752 | 65.2880 | 0.0000 |
| Beam 47: End 2: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | -3.2445 | -3.4108 | 0.0000 |
| Beam 47: End 2: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -8.0325 | -41.8324 | 0.0000 |
| Beam 47: End 2: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | -59.7454 | -75.4046 | 0.0000 |
| Beam 47: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 34.5960 | 241.2892 | 109.0719 | 0.0000 |
| Beam 47: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 28.1719 | 196.4842 | 88.8183 | 0.0000 |
| Beam 47: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | -3.7357 | -3.8079 | 0.0000 |
| Beam 47: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | -5.2578 | -46.7021 | 0.0000 |
| Beam 47: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | -3.0543 | -3.1136 | 0.0000 |
| Beam 47: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | -4.3040 | -38.1864 | 0.0000 |
| Beam 47: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -11.9537 | 10.3898 | 0.0000 |

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|--|--|--|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|----------|----------|--------|--|
| Beam 47: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -11.5188 | 10.0118 | 0.0000 | |
| Beam 47: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 47: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -80.6895 | -38.8522 | 0.0000 | |
| Beam 47: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 60.2482 | 29.0096 | 0.0000 | |
| Beam 47: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 44.9363 | 53.1424 | 0.0000 | |
| Beam 47: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -12.8972 | 22.3199 | 0.0000 | |
| Beam 47: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 3.2710 | 22.8135 | 10.3126 | 0.0000 | |
| Beam 47: End 2: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | -3.8121 | -3.9639 | 0.0000 | |
| Beam 47: End 2: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -7.6822 | -48.6161 | 0.0000 | |
| Beam 47: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 158.5869 | 656.8079 | 377.7612 | 0.0000 | |
| Beam 47: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 207.4313 | 859.2691 | 514.7063 | 0.0000 | |
| Beam 47: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 148.3658 | 641.3137 | 356.8910 | 0.0000 | |
| Beam 47: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 136.2660 | 634.7614 | 350.1758 | 0.0000 | |
| Beam 47: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 189.5723 | 684.0762 | 397.1796 | 0.0000 | |
| Beam 47: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 112.9341 | 299.4135 | 162.3150 | 0.0000 | |
| Beam 47: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 129.4524 | 707.3819 | 385.1428 | 0.0000 | |
| Beam 47: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 54.1822 | 188.4619 | 83.9622 | 0.0000 | |
| Beam 47: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 162.3562 | 651.7715 | 334.9551 | 0.0000 | |
| Beam 47: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 166.7379 | 793.1296 | 329.2449 | 0.0000 | |
| Beam 47: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 149.1327 | 844.8338 | 415.8571 | 0.0000 | |
| Beam 47: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 171.8448 | 602.7654 | 299.3006 | 0.0000 | |
| Beam 47: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 152.0262 | 593.4592 | 348.8522 | 0.0000 | |
| Beam 47: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 199.0644 | 794.9324 | 484.7905 | 0.0000 | |
| Beam 47: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 139.9989 | 576.9771 | 326.9753 | 0.0000 | |
| Beam 47: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 129.7053 | 571.4127 | 321.2668 | 0.0000 | |
| Beam 47: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 183.0117 | 620.7275 | 368.2706 | 0.0000 | |
| Beam 47: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 114.7403 | 300.4014 | 163.3218 | 0.0000 | |
| Beam 47: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 122.8917 | 644.0332 | 356.2338 | 0.0000 | |
| Beam 47: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 55.9884 | 189.4498 | 84.9690 | 0.0000 | |
| Beam 47: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 154.8474 | 587.7922 | 306.5943 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|----------|--------|
| Beam 47: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 156.4841 | 729.5455 | 312.2250 | 0.0000 |
| Beam 47: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 141.2627 | 780.6569 | 387.2949 | 0.0000 |
| Beam 47: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 163.9748 | 538.5885 | 270.7384 | 0.0000 |
| Beam 47: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 149.7700 | 643.7431 | 342.3691 | 0.0000 |
| Beam 47: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 142.2612 | 579.7638 | 314.0083 | 0.0000 |
| Beam 47: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 59.8220 | 347.9026 | 165.4332 | 0.0000 |
| Beam 47: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 57.8594 | 334.2144 | 159.2456 | 0.0000 |
| Beam 47: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 95.7969 | 377.5672 | 165.4455 | 0.0000 |
| Beam 47: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 93.8343 | 363.8791 | 159.2579 | 0.0000 |
| Beam 47: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 76.1747 | 378.2777 | 191.0593 | 0.0000 |
| Beam 47: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 69.6327 | 332.6506 | 170.4341 | 0.0000 |
| Beam 47: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | 86.9672 | 387.1771 | 191.0630 | 0.0000 |
| Beam 47: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 80.4252 | 341.5500 | 170.4378 | 0.0000 |
| Beam 47: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 58.9171 | 339.1648 | 161.4457 | 0.0000 |
| Beam 47: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 56.9545 | 325.4767 | 155.2582 | 0.0000 |
| Beam 47: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 94.8919 | 368.8294 | 161.4580 | 0.0000 |
| Beam 47: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 92.9293 | 355.1413 | 155.2705 | 0.0000 |
| Beam 47: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 75.2698 | 369.5399 | 187.0718 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|----------|----------|
| Beam 47: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 68.7278 | 323.9128 | 166.4467 |
| Beam 47: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 86.0622 | 378.4393 | 187.0755 |
| Beam 47: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 79.5202 | 332.8122 | 166.4503 |
| Beam 47: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 157.5210 | 495.6874 | 221.4319 |
| Beam 47: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 137.8501 | 379.7341 | 191.4330 |
| Beam 47: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 119.8370 | 542.6224 | 312.7934 |
| Beam 47: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 152.3371 | 460.8037 | 212.8995 |
| Beam 47: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 133.7125 | 345.5462 | 182.2958 |
| Beam 47: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 116.2173 | 507.6714 | 296.8436 |
| Beam 47: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 136.7610 | 533.6886 | 301.5306 |
| Beam 47: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 131.5826 | 489.5649 | 281.9714 |
| Beam 47: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 86.4107 | 215.9251 | 117.0691 |
| Beam 47: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 133.4358 | 479.0868 | 275.7426 |
| Beam 47: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 129.2930 | 443.7879 | 260.0953 |
| Beam 47: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 207.4313 | 859.2691 | 514.7063 |
| Beam 47: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 207.4313 | 859.2691 | 514.7063 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|----------|----------|--------|
| Beam 47: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 95.7969 | 387.1771 | 191.0630 | |
| 0.0000 | | | | | | |
| Beam 47: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 157.5210 | 542.6224 | 312.7934 | |
| 0.0000 | | | | | | |
| Beam 47: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 133.4358 | 479.0868 | 275.7426 | |
| 0.0000 | | | | | | |
| Beam 47: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 86.4107 | 215.9251 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 48: End 1: 1: PP | 0.0000 | 0.0000 | 106.7288 | 198.0723 | 172.4289 | 0.0000 |
| Beam 48: End 1: 2: PERM | 0.0000 | 0.0000 | 41.2487 | 88.8752 | 65.2880 | 0.0000 |
| Beam 48: End 1: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | -3.2445 | -3.4108 | 0.0000 |
| Beam 48: End 1: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -8.0325 | -41.8324 | 0.0000 |
| Beam 48: End 1: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | -59.7454 | -75.4046 | 0.0000 |
| Beam 48: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 34.5960 | 241.2892 | 109.0719 | 0.0000 |
| Beam 48: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 28.1719 | 196.4842 | 88.8183 | 0.0000 |
| Beam 48: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | -3.7357 | -3.8079 | 0.0000 |
| Beam 48: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | -5.2578 | -46.7021 | 0.0000 |
| Beam 48: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | -3.0543 | -3.1136 | 0.0000 |
| Beam 48: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | -4.3040 | -38.1864 | 0.0000 |
| Beam 48: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -11.9537 | 10.3898 | 0.0000 |
| Beam 48: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -11.5188 | 10.0118 | 0.0000 |
| Beam 48: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 48: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -80.6895 | -38.8522 | 0.0000 |
| Beam 48: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 60.2482 | 29.0096 | 0.0000 |
| Beam 48: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 44.9363 | 53.1424 | 0.0000 |
| Beam 48: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -12.8972 | 22.3199 | 0.0000 |
| Beam 48: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 3.2710 | 22.8135 | 10.3126 | 0.0000 |
| Beam 48: End 1: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | -3.8121 | -3.9639 | 0.0000 |
| Beam 48: End 1: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -7.6822 | -48.6161 | 0.0000 |
| Beam 48: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 158.5869 | 656.8079 | 377.7612 | 0.0000 |
| Beam 48: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 207.4313 | 859.2691 | 514.7063 | 0.0000 |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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|--|--------|--------|----------|----------|----------|--------|
| Beam 48: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 148.3658 | 641.3137 | 356.8910 | 0.0000 |
| Beam 48: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 136.2660 | 634.7614 | 350.1758 | 0.0000 |
| Beam 48: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 189.5723 | 684.0762 | 397.1796 | 0.0000 |
| Beam 48: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 112.9341 | 299.4135 | 162.3150 | 0.0000 |
| Beam 48: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 129.4524 | 707.3819 | 385.1428 | 0.0000 |
| Beam 48: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 54.1822 | 188.4619 | 83.9622 | 0.0000 |
| Beam 48: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 162.3562 | 651.7715 | 334.9551 | 0.0000 |
| Beam 48: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | 166.7379 | 793.1296 | 329.2449 | 0.0000 |
| Beam 48: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 149.1327 | 844.8338 | 415.8571 | 0.0000 |
| Beam 48: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 171.8448 | 602.7654 | 299.3006 | 0.0000 |
| Beam 48: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 152.0262 | 593.4592 | 348.8522 | 0.0000 |
| Beam 48: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 199.0644 | 794.9324 | 484.7905 | 0.0000 |
| Beam 48: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 139.9989 | 576.9771 | 326.9753 | 0.0000 |
| Beam 48: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 129.7053 | 571.4127 | 321.2668 | 0.0000 |
| Beam 48: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 183.0117 | 620.7275 | 368.2706 | 0.0000 |
| Beam 48: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 114.7403 | 300.4014 | 163.3218 | 0.0000 |
| Beam 48: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 122.8917 | 644.0332 | 356.2338 | 0.0000 |
| Beam 48: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 55.9884 | 189.4498 | 84.9690 | 0.0000 |
| Beam 48: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 154.8474 | 587.7922 | 306.5943 | 0.0000 |
| Beam 48: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | 156.4841 | 729.5455 | 312.2250 | 0.0000 |
| Beam 48: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 141.2627 | 780.6569 | 387.2949 | 0.0000 |
| Beam 48: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 163.9748 | 538.5885 | 270.7384 | 0.0000 |
| Beam 48: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 149.7700 | 643.7431 | 342.3691 | 0.0000 |
| Beam 48: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 142.2612 | 579.7638 | 314.0083 | 0.0000 |
| Beam 48: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 59.8220 | 347.9026 | 165.4332 | 0.0000 |
| Beam 48: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 57.8594 | 334.2144 | 159.2456 | 0.0000 |
| Beam 48: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 95.7969 | 377.5672 | 165.4455 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 48: End 1: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | 93.8343 | 363.8791 | 159.2579 |
| Beam 48: End 1: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | 76.1747 | 378.2777 | 191.0593 |
| Beam 48: End 1: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | 69.6327 | 332.6506 | 170.4341 |
| Beam 48: End 1: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | 86.9672 | 387.1771 | 191.0630 |
| Beam 48: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | 80.4252 | 341.5500 | 170.4378 |
| Beam 48: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 58.9171 | 339.1648 | 161.4457 |
| Beam 48: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 56.9545 | 325.4767 | 155.2582 |
| Beam 48: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | 94.8919 | 368.8294 | 161.4580 |
| Beam 48: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 92.9293 | 355.1413 | 155.2705 |
| Beam 48: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 75.2698 | 369.5399 | 187.0718 |
| Beam 48: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 68.7278 | 323.9128 | 166.4467 |
| Beam 48: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | 86.0622 | 378.4393 | 187.0755 |
| Beam 48: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | 79.5202 | 332.8122 | 166.4503 |
| Beam 48: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | 157.5210 | 495.6874 | 221.4319 |
| Beam 48: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 137.8501 | 379.7341 | 191.4330 |
| Beam 48: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 119.8370 | 542.6224 | 312.7934 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|----------|----------|--------|
| Beam 48: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 152.3371 | 460.8037 | 212.8995 | |
| Beam 48: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 133.7125 | 345.5462 | 182.2958 | |
| Beam 48: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 116.2173 | 507.6714 | 296.8436 | |
| Beam 48: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 136.7610 | 533.6886 | 301.5306 | |
| Beam 48: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 131.5826 | 489.5649 | 281.9714 | |
| Beam 48: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 86.4107 | 215.9251 | 117.0691 | |
| Beam 48: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 133.4358 | 479.0868 | 275.7426 | |
| Beam 48: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 129.2930 | 443.7879 | 260.0953 | |
| Beam 48: End 1: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 207.4313 | 859.2691 | 514.7063 | |
| Beam 48: End 1: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 207.4313 | 859.2691 | 514.7063 | |
| Beam 48: End 1: 77: SLV [Absolute Envelope 3] 0.0000 | 0.0000 | 0.0000 | 95.7969 | 387.1771 | 191.0630 | |
| Beam 48: End 1: 78: SLE R [Absolute Envelope 4] 0.0000 | 0.0000 | 0.0000 | 157.5210 | 542.6224 | 312.7934 | |
| Beam 48: End 1: 79: SLE F [Absolute Envelope 5] 0.0000 | 0.0000 | 0.0000 | 133.4358 | 479.0868 | 275.7426 | |
| Beam 48: End 1: 80: SLE PQ [Absolute Envelope 6] 0.0000 | 0.0000 | 0.0000 | 86.4107 | 215.9251 | 117.0691 | |
| Beam 48: End 2: 1: PP | 0.0000 | 0.0000 | 64.5458 | 345.3685 | 172.4289 | 0.0000 |
| Beam 48: End 2: 2: PERM | 0.0000 | 0.0000 | 18.0287 | 139.8537 | 65.2880 | 0.0000 |
| Beam 48: End 2: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | -14.0176 | -3.4108 | 0.0000 |
| Beam 48: End 2: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -4.2360 | -41.8324 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|-----------|----------|--------|--|
| Beam 48: End 2: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | -158.6637 | -75.4046 | 0.0000 | |
| Beam 48: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -66.3680 | 213.9654 | 109.0719 | 0.0000 | |
| Beam 48: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -54.0441 | 174.2342 | 88.8183 | 0.0000 | |
| Beam 48: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | -15.4881 | -3.8079 | 0.0000 | |
| Beam 48: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | 0.8354 | -46.7021 | 0.0000 | |
| Beam 48: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | -12.6642 | -3.1136 | 0.0000 | |
| Beam 48: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | 0.6757 | -38.1864 | 0.0000 | |
| Beam 48: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -42.8661 | -6.1566 | 0.0000 | |
| Beam 48: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -41.3065 | -5.9326 | 0.0000 | |
| Beam 48: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 48: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -67.6679 | -38.8522 | 0.0000 | |
| Beam 48: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 50.5254 | 29.0096 | 0.0000 | |
| Beam 48: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 122.8313 | 53.1424 | 0.0000 | |
| Beam 48: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -52.6395 | 3.2279 | 0.0000 | |
| Beam 48: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -6.2750 | 20.2301 | 10.3126 | 0.0000 | |
| Beam 48: End 2: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | -16.2324 | -3.9639 | 0.0000 | |
| Beam 48: End 2: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -2.4947 | -48.6161 | 0.0000 | |
| Beam 48: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -79.5879 | 724.7470 | 353.7689 | 0.0000 | |
| Beam 48: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -30.7436 | 1011.2205 | 490.7140 | 0.0000 | |
| Beam 48: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -89.8091 | 691.6724 | 332.8988 | 0.0000 | |
| Beam 48: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -101.9088 | 664.3086 | 326.1835 | 0.0000 | |
| Beam 48: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -48.6025 | 805.3102 | 373.1873 | 0.0000 | |
| Beam 48: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 21.1571 | 414.7320 | 162.3150 | 0.0000 | |
| Beam 48: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -108.7225 | 725.2097 | 361.1505 | 0.0000 | |
| Beam 48: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -11.2208 | 225.4087 | 83.9622 | 0.0000 | |
| Beam 48: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -75.8187 | 726.1937 | 334.9551 | 0.0000 | |
| Beam 48: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -71.4369 | 875.0885 | 329.2449 | 0.0000 | |
| Beam 48: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -89.0421 | 896.5117 | 415.8571 | 0.0000 | |
| Beam 48: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -66.3300 | 693.5081 | 299.3006 | 0.0000 | |
| Beam 48: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -58.9640 | 673.4927 | 325.7329 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|----------|--------|
| Beam 48: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -11.9258 | 955.8716 | 461.6712 | 0.0000 |
| Beam 48: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -70.9914 | 636.3235 | 303.8559 | 0.0000 |
| Beam 48: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -81.2849 | 613.0543 | 298.1475 | 0.0000 |
| Beam 48: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -27.9786 | 754.0559 | 345.1513 | 0.0000 |
| Beam 48: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 22.9633 | 418.8265 | 163.3218 | 0.0000 |
| Beam 48: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -88.0985 | 673.9554 | 333.1144 | 0.0000 |
| Beam 48: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -9.4146 | 229.5033 | 84.9690 | 0.0000 |
| Beam 48: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -56.1429 | 672.6780 | 306.5943 | 0.0000 |
| Beam 48: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -54.5061 | 817.2466 | 312.2250 | 0.0000 |
| Beam 48: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -69.7276 | 842.1771 | 387.2949 | 0.0000 |
| Beam 48: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -47.0155 | 639.1735 | 270.7384 | 0.0000 |
| Beam 48: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -88.4048 | 696.5172 | 330.8094 | 0.0000 |
| Beam 48: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -68.7290 | 643.0015 | 302.4486 | 0.0000 |
| Beam 48: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -28.6376 | 374.7212 | 143.0319 | 0.0000 |
| Beam 48: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -24.8726 | 362.5831 | 136.8443 | 0.0000 |
| Beam 48: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 7.3373 | 466.2625 | 181.2282 | 0.0000 |
| Beam 48: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 11.1023 | 454.1245 | 175.0406 | 0.0000 |
| Beam 48: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -18.9671 | 427.4763 | 182.0224 | 0.0000 |
| Beam 48: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -6.4171 | 387.0160 | 161.3972 | 0.0000 |
| Beam 48: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -8.1746 | 454.9387 | 193.4813 | 0.0000 |
| Beam 48: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 4.3754 | 414.4784 | 172.8561 | 0.0000 |
| Beam 48: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -25.7929 | 367.6516 | 139.1648 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|----------|
| Beam 48: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -22.0279 | 355.5136 | 132.9773 |
| 0.0000 | | | | | |
| Beam 48: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 10.1819 | 459.1930 | 177.3611 |
| 0.0000 | | | | | |
| Beam 48: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 13.9469 | 447.0549 | 171.1736 |
| 0.0000 | | | | | |
| Beam 48: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -16.1224 | 420.4067 | 178.1554 |
| 0.0000 | | | | | |
| Beam 48: End 2: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -3.5724 | 379.9465 | 157.5302 |
| 0.0000 | | | | | |
| Beam 48: End 2: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -5.3300 | 447.8691 | 189.6142 |
| 0.0000 | | | | | |
| Beam 48: End 2: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 7.2200 | 407.4089 | 168.9891 |
| 0.0000 | | | | | |
| Beam 48: End 2: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 11.3468 | 640.9137 | 234.6690 |
| 0.0000 | | | | | |
| Beam 48: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -8.3241 | 491.1265 | 178.1959 |
| 0.0000 | | | | | |
| Beam 48: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -26.3372 | 623.0322 | 299.5563 |
| 0.0000 | | | | | |
| Beam 48: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 21.1613 | 610.0124 | 225.6550 |
| 0.0000 | | | | | |
| Beam 48: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 2.5367 | 462.7205 | 169.5402 |
| 0.0000 | | | | | |
| Beam 48: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -14.9585 | 594.7540 | 284.0881 |
| 0.0000 | | | | | |
| Beam 48: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -29.6060 | 625.8419 | 293.5584 |
| 0.0000 | | | | | |
| Beam 48: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -16.0364 | 588.9345 | 273.9992 |
| 0.0000 | | | | | |
| Beam 48: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 21.0077 | 308.3049 | 117.0691 |
| 0.0000 | | | | | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 48: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -12.7384 | 582.8865 | 269.1241 | 0.0000 |
| Beam 48: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -1.8828 | 553.3606 | 253.4767 | 0.0000 |
| Beam 48: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 108.7225 | 1011.2205 | 490.7140 | 0.0000 |
| Beam 48: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 108.7225 | 1011.2205 | 490.7140 | 0.0000 |
| Beam 48: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 28.6376 | 466.2625 | 193.4813 | 0.0000 |
| Beam 48: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 29.6060 | 640.9137 | 299.5563 | 0.0000 |
| Beam 48: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 12.7384 | 582.8865 | 269.1241 | 0.0000 |
| Beam 48: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 21.0077 | 308.3049 | 117.0691 | 0.0000 |
| Beam 49: End 1: 1: PP | 0.0000 | 0.0000 | 64.5458 | 345.3685 | 172.4289 | 0.0000 |
| Beam 49: End 1: 2: PERM | 0.0000 | 0.0000 | 18.0287 | 139.8537 | 65.2880 | 0.0000 |
| Beam 49: End 1: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | -14.0176 | -3.4108 | 0.0000 |
| Beam 49: End 1: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -4.2360 | -41.8324 | 0.0000 |
| Beam 49: End 1: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | -158.6637 | -75.4046 | 0.0000 |
| Beam 49: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -66.3680 | 213.9654 | 109.0719 | 0.0000 |
| Beam 49: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -54.0441 | 174.2342 | 88.8183 | 0.0000 |
| Beam 49: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | -15.4881 | -3.8079 | 0.0000 |
| Beam 49: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | 0.8354 | -46.7021 | 0.0000 |
| Beam 49: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | -12.6642 | -3.1136 | 0.0000 |
| Beam 49: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | 0.6757 | -38.1864 | 0.0000 |
| Beam 49: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -42.8661 | -6.1566 | 0.0000 |
| Beam 49: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -41.3065 | -5.9326 | 0.0000 |
| Beam 49: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 49: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -67.6679 | -38.8522 | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLS0900001 | A |



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|--|--------|--------|-----------|-----------|----------|--------|--|
| Beam 49: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 50.5254 | 29.0096 | 0.0000 | |
| Beam 49: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 122.8313 | 53.1424 | 0.0000 | |
| Beam 49: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -52.6395 | 3.2279 | 0.0000 | |
| Beam 49: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -6.2750 | 20.2301 | 10.3126 | 0.0000 | |
| Beam 49: End 1: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | -16.2324 | -3.9639 | 0.0000 | |
| Beam 49: End 1: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -2.4947 | -48.6161 | 0.0000 | |
| Beam 49: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -79.5879 | 724.7470 | 353.7689 | 0.0000 | |
| Beam 49: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -30.7436 | 1011.2205 | 490.7140 | 0.0000 | |
| Beam 49: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -89.8091 | 691.6724 | 332.8988 | 0.0000 | |
| Beam 49: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -101.9088 | 664.3086 | 326.1835 | 0.0000 | |
| Beam 49: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -48.6025 | 805.3102 | 373.1873 | 0.0000 | |
| Beam 49: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 21.1571 | 414.7320 | 162.3150 | 0.0000 | |
| Beam 49: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -108.7225 | 725.2097 | 361.1505 | 0.0000 | |
| Beam 49: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -11.2208 | 225.4087 | 83.9622 | 0.0000 | |
| Beam 49: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -75.8187 | 726.1937 | 334.9551 | 0.0000 | |
| Beam 49: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -71.4369 | 875.0885 | 329.2449 | 0.0000 | |
| Beam 49: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -89.0421 | 896.5117 | 415.8571 | 0.0000 | |
| Beam 49: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -66.3300 | 693.5081 | 299.3006 | 0.0000 | |
| Beam 49: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -58.9640 | 673.4927 | 325.7329 | 0.0000 | |
| Beam 49: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -11.9258 | 955.8716 | 461.6712 | 0.0000 | |
| Beam 49: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -70.9914 | 636.3235 | 303.8559 | 0.0000 | |
| Beam 49: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -81.2849 | 613.0543 | 298.1475 | 0.0000 | |
| Beam 49: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -27.9786 | 754.0559 | 345.1513 | 0.0000 | |
| Beam 49: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 22.9633 | 418.8265 | 163.3218 | 0.0000 | |
| Beam 49: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -88.0985 | 673.9554 | 333.1144 | 0.0000 | |
| Beam 49: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -9.4146 | 229.5033 | 84.9690 | 0.0000 | |
| Beam 49: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -56.1429 | 672.6780 | 306.5943 | 0.0000 | |
| Beam 49: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -54.5061 | 817.2466 | 312.2250 | 0.0000 | |
| Beam 49: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -69.7276 | 842.1771 | 387.2949 | 0.0000 | |
| Beam 49: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -47.0155 | 639.1735 | 270.7384 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|--------|
| Beam 49: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -88.4048 | 696.5172 | 330.8094 | 0.0000 |
| Beam 49: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -68.7290 | 643.0015 | 302.4486 | 0.0000 |
| Beam 49: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -28.6376 | 374.7212 | 143.0319 | 0.0000 |
| Beam 49: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -24.8726 | 362.5831 | 136.8443 | 0.0000 |
| Beam 49: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | 7.3373 | 466.2625 | 181.2282 | 0.0000 |
| Beam 49: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | 11.1023 | 454.1245 | 175.0406 | 0.0000 |
| Beam 49: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -18.9671 | 427.4763 | 182.0224 | 0.0000 |
| Beam 49: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -6.4171 | 387.0160 | 161.3972 | 0.0000 |
| Beam 49: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -8.1746 | 454.9387 | 193.4813 | 0.0000 |
| Beam 49: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | 4.3754 | 414.4784 | 172.8561 | 0.0000 |
| Beam 49: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -25.7929 | 367.6516 | 139.1648 | 0.0000 |
| Beam 49: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -22.0279 | 355.5136 | 132.9773 | 0.0000 |
| Beam 49: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | 10.1819 | 459.1930 | 177.3611 | 0.0000 |
| Beam 49: End 1: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | 13.9469 | 447.0549 | 171.1736 | 0.0000 |
| Beam 49: End 1: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | -16.1224 | 420.4067 | 178.1554 | 0.0000 |
| Beam 49: End 1: 61: SLU_SISMA14 [Combination 40] | 0.0000 | 0.0000 | -3.5724 | 379.9465 | 157.5302 | 0.0000 |
| Beam 49: End 1: 62: SLU_SISMA15 [Combination 41] | 0.0000 | 0.0000 | -5.3300 | 447.8691 | 189.6142 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 49: End 1: 63: SLU_SISMA16 [Combination 42] | 0.0000 | 0.0000 | 7.2200 | 407.4089 | 168.9891 |
| 0.0000 | | | | | |
| Beam 49: End 1: 64: SLE_RARA01 [Combination 43] | 0.0000 | 0.0000 | 11.3468 | 640.9137 | 234.6690 |
| 0.0000 | | | | | |
| Beam 49: End 1: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -8.3241 | 491.1265 | 178.1959 |
| 0.0000 | | | | | |
| Beam 49: End 1: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -26.3372 | 623.0322 | 299.5563 |
| 0.0000 | | | | | |
| Beam 49: End 1: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | 21.1613 | 610.0124 | 225.6550 |
| 0.0000 | | | | | |
| Beam 49: End 1: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | 2.5367 | 462.7205 | 169.5402 |
| 0.0000 | | | | | |
| Beam 49: End 1: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -14.9585 | 594.7540 | 284.0881 |
| 0.0000 | | | | | |
| Beam 49: End 1: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -29.6060 | 625.8419 | 293.5584 |
| 0.0000 | | | | | |
| Beam 49: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -16.0364 | 588.9345 | 273.9992 |
| 0.0000 | | | | | |
| Beam 49: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 21.0077 | 308.3049 | 117.0691 |
| 0.0000 | | | | | |
| Beam 49: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -12.7384 | 582.8865 | 269.1241 |
| 0.0000 | | | | | |
| Beam 49: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -1.8828 | 553.3606 | 253.4767 |
| 0.0000 | | | | | |
| Beam 49: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 108.7225 | 1011.2205 | 490.7140 |
| 0.0000 | | | | | |
| Beam 49: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 108.7225 | 1011.2205 | 490.7140 |
| 0.0000 | | | | | |
| Beam 49: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 28.6376 | 466.2625 | 193.4813 |
| 0.0000 | | | | | |
| Beam 49: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 29.6060 | 640.9137 | 299.5563 |
| 0.0000 | | | | | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|-----------|----------|--------|
| Beam 49: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 12.7384 | 582.8865 | 269.1241 | 0.0000 |
| Beam 49: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 21.0077 | 308.3049 | 117.0691 | 0.0000 |
| Beam 49: End 2: 1: PP | 0.0000 | 0.0000 | 58.4145 | 360.7385 | 172.4289 | 0.0000 |
| Beam 49: End 2: 2: PERM | 0.0000 | 0.0000 | 14.6537 | 143.9390 | 65.2880 | 0.0000 |
| Beam 49: End 2: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | -15.5835 | -3.4108 | 0.0000 |
| Beam 49: End 2: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -3.6842 | -41.8324 | 0.0000 |
| Beam 49: End 2: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | -173.0413 | -75.4046 | 0.0000 |
| Beam 49: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -81.0430 | 195.5390 | 109.0719 | 0.0000 |
| Beam 49: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -65.9941 | 159.2294 | 88.8183 | 0.0000 |
| Beam 49: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | -17.1962 | -3.8079 | 0.0000 |
| Beam 49: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | 1.7211 | -46.7021 | 0.0000 |
| Beam 49: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | -14.0610 | -3.1136 | 0.0000 |
| Beam 49: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | 1.3995 | -38.1864 | 0.0000 |
| Beam 49: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -47.3592 | -8.5616 | 0.0000 |
| Beam 49: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -45.6361 | -8.2501 | 0.0000 |
| Beam 49: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 49: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -65.7752 | -38.8522 | 0.0000 |
| Beam 49: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 49.1122 | 29.0096 | 0.0000 |
| Beam 49: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 134.1532 | 53.1424 | 0.0000 |
| Beam 49: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -58.4160 | 0.4529 | 0.0000 |
| Beam 49: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -7.6625 | 18.4879 | 10.3126 | 0.0000 |
| Beam 49: End 2: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | -18.0377 | -3.9639 | 0.0000 |
| Beam 49: End 2: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -1.7407 | -48.6161 | 0.0000 |
| Beam 49: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -114.2064 | 700.5227 | 350.2817 | 0.0000 |
| Beam 49: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -65.3620 | 999.2073 | 487.2268 | 0.0000 |
| Beam 49: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -124.4275 | 664.8928 | 329.4115 | 0.0000 |
| Beam 49: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -136.5273 | 634.5040 | 322.6963 | 0.0000 |
| Beam 49: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -83.2209 | 788.8323 | 369.7001 | 0.0000 |
| Beam 49: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 7.8174 | 418.3538 | 162.3150 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|----------|--------|
| Beam 49: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -143.3409 | 693.7017 | 357.6633 | 0.0000 |
| Beam 49: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -20.7270 | 221.4153 | 83.9622 | 0.0000 |
| Beam 49: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -110.4371 | 702.9118 | 334.9551 | 0.0000 |
| Beam 49: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -106.0554 | 852.9020 | 329.2449 | 0.0000 |
| Beam 49: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -123.6606 | 869.9239 | 415.8571 | 0.0000 |
| Beam 49: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -100.9485 | 672.5983 | 299.3006 | 0.0000 |
| Beam 49: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -89.6312 | 654.9183 | 322.3725 | 0.0000 |
| Beam 49: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -42.5930 | 949.0568 | 458.3108 | 0.0000 |
| Beam 49: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -101.6586 | 614.7423 | 300.4955 | 0.0000 |
| Beam 49: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -111.9521 | 588.8996 | 294.7871 | 0.0000 |
| Beam 49: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -58.6458 | 743.2279 | 341.7909 | 0.0000 |
| Beam 49: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 9.6236 | 422.8999 | 163.3218 | 0.0000 |
| Beam 49: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -118.7657 | 648.0973 | 329.7540 | 0.0000 |
| Beam 49: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -18.9208 | 225.9614 | 84.9690 | 0.0000 |
| Beam 49: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -86.8101 | 654.8089 | 306.5943 | 0.0000 |
| Beam 49: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -85.1733 | 799.7867 | 312.2250 | 0.0000 |
| Beam 49: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -100.3948 | 820.9119 | 387.2949 | 0.0000 |
| Beam 49: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -77.6827 | 623.5862 | 270.7384 | 0.0000 |
| Beam 49: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -123.0233 | 670.0887 | 329.1293 | 0.0000 |
| Beam 49: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -99.3962 | 621.9858 | 300.7684 | 0.0000 |
| Beam 49: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -41.4951 | 365.9546 | 139.7759 | 0.0000 |
| Beam 49: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -36.8976 | 354.8619 | 133.5883 | 0.0000 |
| Beam 49: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -5.5202 | 466.4897 | 183.5222 | 0.0000 |
| Beam 49: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -0.9227 | 455.3969 | 177.3346 | 0.0000 |
| Beam 49: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -32.7958 | 421.0059 | 180.7089 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 49: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -17.4708 | 384.0300 | 160.0837 |
| Beam 49: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -22.0034 | 451.1664 | 193.8328 |
| Beam 49: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -6.6784 | 414.1905 | 173.2076 |
| Beam 49: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -38.1054 | 359.6644 | 135.9263 |
| Beam 49: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -33.5079 | 348.5716 | 129.7388 |
| Beam 49: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -2.1306 | 460.1994 | 179.6726 |
| Beam 49: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 2.4669 | 449.1066 | 173.4851 |
| Beam 49: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -29.4062 | 414.7156 | 176.8594 |
| Beam 49: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -14.0812 | 377.7398 | 156.2342 |
| Beam 49: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -18.6137 | 444.8761 | 189.9832 |
| Beam 49: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -3.2887 | 407.9003 | 169.3581 |
| Beam 49: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -9.8995 | 641.0946 | 236.5930 |
| Beam 49: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -29.5704 | 486.3897 | 176.2719 |
| Beam 49: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -47.5835 | 613.7921 | 297.6323 |
| Beam 49: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 2.0951 | 612.9194 | 227.5090 |
| Beam 49: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -16.5296 | 460.9713 | 167.6862 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|---|--------|--------|----------|-----------|----------|--------|
| Beam 49: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -34.0248 | 588.6310 | 282.2341 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -53.7872 | 615.4178 | 292.3997 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -37.4927 | 582.2434 | 272.8405 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 11.5014 | 312.3685 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -33.9847 | 577.0461 | 268.1621 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -20.9491 | 550.5066 | 252.5147 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 143.3409 | 999.2073 | 487.2268 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 143.3409 | 999.2073 | 487.2268 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 41.4951 | 466.4897 | 193.8328 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 53.7872 | 641.0946 | 297.6323 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 33.9847 | 577.0461 | 268.1621 | |
| 0.0000 | | | | | | |
| Beam 49: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 11.5014 | 312.3685 | 117.0691 | |
| 0.0000 | | | | | | |
| Beam 50: End 1: 1: PP | 0.0000 | 0.0000 | 58.4145 | 360.7385 | 172.4289 | 0.0000 |
| Beam 50: End 1: 2: PERM | 0.0000 | 0.0000 | 14.6537 | 143.9390 | 65.2880 | 0.0000 |
| Beam 50: End 1: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | -15.5835 | -3.4108 | 0.0000 |
| Beam 50: End 1: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -3.6842 | -41.8324 | 0.0000 |
| Beam 50: End 1: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | -173.0413 | -75.4046 | 0.0000 |
| Beam 50: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | -81.0430 | 195.5390 | 109.0719 | 0.0000 |
| Beam 50: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | -65.9941 | 159.2294 | 88.8183 | 0.0000 |
| Beam 50: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | -17.1962 | -3.8079 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|-----------|----------|----------|--------|
| Beam 50: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | 1.7211 | -46.7021 | 0.0000 |
| Beam 50: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | -14.0610 | -3.1136 | 0.0000 |
| Beam 50: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | 1.3995 | -38.1864 | 0.0000 |
| Beam 50: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -47.3592 | -8.5616 | 0.0000 |
| Beam 50: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -45.6361 | -8.2501 | 0.0000 |
| Beam 50: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 50: End 1: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -65.7752 | -38.8522 | 0.0000 |
| Beam 50: End 1: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 49.1122 | 29.0096 | 0.0000 |
| Beam 50: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 134.1532 | 53.1424 | 0.0000 |
| Beam 50: End 1: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -58.4160 | 0.4529 | 0.0000 |
| Beam 50: End 1: 19: SISMA_V | 0.0000 | 0.0000 | -7.6625 | 18.4879 | 10.3126 | 0.0000 |
| Beam 50: End 1: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | -18.0377 | -3.9639 | 0.0000 |
| Beam 50: End 1: 21: SPSDX | 0.0000 | 0.0000 | 3.0160 | -1.7407 | -48.6161 | 0.0000 |
| Beam 50: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -114.2064 | 700.5227 | 350.2817 | 0.0000 |
| Beam 50: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -65.3620 | 999.2073 | 487.2268 | 0.0000 |
| Beam 50: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -124.4275 | 664.8928 | 329.4115 | 0.0000 |
| Beam 50: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -136.5273 | 634.5040 | 322.6963 | 0.0000 |
| Beam 50: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -83.2209 | 788.8323 | 369.7001 | 0.0000 |
| Beam 50: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 7.8174 | 418.3538 | 162.3150 | 0.0000 |
| Beam 50: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -143.3409 | 693.7017 | 357.6633 | 0.0000 |
| Beam 50: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -20.7270 | 221.4153 | 83.9622 | 0.0000 |
| Beam 50: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -110.4371 | 702.9118 | 334.9551 | 0.0000 |
| Beam 50: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -106.0554 | 852.9020 | 329.2449 | 0.0000 |
| Beam 50: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -123.6606 | 869.9239 | 415.8571 | 0.0000 |
| Beam 50: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -100.9485 | 672.5983 | 299.3006 | 0.0000 |
| Beam 50: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -89.6312 | 654.9183 | 322.3725 | 0.0000 |
| Beam 50: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -42.5930 | 949.0568 | 458.3108 | 0.0000 |
| Beam 50: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -101.6586 | 614.7423 | 300.4955 | 0.0000 |
| Beam 50: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -111.9521 | 588.8996 | 294.7871 | 0.0000 |
| Beam 50: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -58.6458 | 743.2279 | 341.7909 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|-----------|----------|----------|--------|
| Beam 50: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 9.6236 | 422.8999 | 163.3218 | 0.0000 |
| Beam 50: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -118.7657 | 648.0973 | 329.7540 | 0.0000 |
| Beam 50: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -18.9208 | 225.9614 | 84.9690 | 0.0000 |
| Beam 50: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -86.8101 | 654.8089 | 306.5943 | 0.0000 |
| Beam 50: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -85.1733 | 799.7867 | 312.2250 | 0.0000 |
| Beam 50: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -100.3948 | 820.9119 | 387.2949 | 0.0000 |
| Beam 50: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -77.6827 | 623.5862 | 270.7384 | 0.0000 |
| Beam 50: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -123.0233 | 670.0887 | 329.1293 | 0.0000 |
| Beam 50: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -99.3962 | 621.9858 | 300.7684 | 0.0000 |
| Beam 50: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -41.4951 | 365.9546 | 139.7759 | 0.0000 |
| Beam 50: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | -36.8976 | 354.8619 | 133.5883 | 0.0000 |
| Beam 50: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -5.5202 | 466.4897 | 183.5222 | 0.0000 |
| Beam 50: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -0.9227 | 455.3969 | 177.3346 | 0.0000 |
| Beam 50: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | -32.7958 | 421.0059 | 180.7089 | 0.0000 |
| Beam 50: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | -17.4708 | 384.0300 | 160.0837 | 0.0000 |
| Beam 50: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -22.0034 | 451.1664 | 193.8328 | 0.0000 |
| Beam 50: End 1: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -6.6784 | 414.1905 | 173.2076 | 0.0000 |
| Beam 50: End 1: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | -38.1054 | 359.6644 | 135.9263 | 0.0000 |
| Beam 50: End 1: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | -33.5079 | 348.5716 | 129.7388 | 0.0000 |
| Beam 50: End 1: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -2.1306 | 460.1994 | 179.6726 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 50: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | 2.4669 | 449.1066 | 173.4851 |
| Beam 50: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -29.4062 | 414.7156 | 176.8594 |
| Beam 50: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -14.0812 | 377.7398 | 156.2342 |
| Beam 50: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -18.6137 | 444.8761 | 189.9832 |
| Beam 50: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -3.2887 | 407.9003 | 169.3581 |
| Beam 50: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -9.8995 | 641.0946 | 236.5930 |
| Beam 50: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | -29.5704 | 486.3897 | 176.2719 |
| Beam 50: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | -47.5835 | 613.7921 | 297.6323 |
| Beam 50: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | 2.0951 | 612.9194 | 227.5090 |
| Beam 50: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | -16.5296 | 460.9713 | 167.6862 |
| Beam 50: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | -34.0248 | 588.6310 | 282.2341 |
| Beam 50: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | -53.7872 | 615.4178 | 292.3997 |
| Beam 50: End 1: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | -37.4927 | 582.2434 | 272.8405 |
| Beam 50: End 1: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 11.5014 | 312.3685 | 117.0691 |
| Beam 50: End 1: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | -33.9847 | 577.0461 | 268.1621 |
| Beam 50: End 1: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | -20.9491 | 550.5066 | 252.5147 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|---|--------|--------|----------|-----------|----------|--------|--|
| Beam 50: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 143.3409 | 999.2073 | 487.2268 | | |
| 0.0000 | | | | | | | |
| Beam 50: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 143.3409 | 999.2073 | 487.2268 | | |
| 0.0000 | | | | | | | |
| Beam 50: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 41.4951 | 466.4897 | 193.8328 | | |
| 0.0000 | | | | | | | |
| Beam 50: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 53.7872 | 641.0946 | 297.6323 | | |
| 0.0000 | | | | | | | |
| Beam 50: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 33.9847 | 577.0461 | 268.1621 | | |
| 0.0000 | | | | | | | |
| Beam 50: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 11.5014 | 312.3685 | 117.0691 | | |
| 0.0000 | | | | | | | |
| Beam 50: End 2: 1: PP | 0.0000 | 0.0000 | 52.2833 | 374.5757 | 172.4289 | 0.0000 | |
| Beam 50: End 2: 2: PERM | 0.0000 | 0.0000 | 11.2787 | 147.1806 | 65.2880 | 0.0000 | |
| Beam 50: End 2: 3: SPTSX | 0.0000 | 0.0000 | -6.2634 | -17.1493 | -3.4108 | 0.0000 | |
| Beam 50: End 2: 4: SPTDX | 0.0000 | 0.0000 | 2.2072 | -3.1324 | -41.8324 | 0.0000 | |
| Beam 50: End 2: 5: SPTW | 0.0000 | 0.0000 | -57.5106 | -187.4190 | -75.4046 | 0.0000 | |
| Beam 50: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | -95.7180 | 173.4439 | 109.0719 | 0.0000 | |
| Beam 50: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | -77.9441 | 141.2371 | 88.8183 | 0.0000 | |
| Beam 50: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | -6.8328 | -18.9044 | -3.8079 | 0.0000 | |
| Beam 50: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | 3.5426 | 2.6067 | -46.7021 | 0.0000 | |
| Beam 50: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | -5.5871 | -15.4578 | -3.1136 | 0.0000 | |
| Beam 50: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | 2.8951 | 2.1232 | -38.1864 | 0.0000 | |
| Beam 50: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | -17.9723 | -51.8523 | -10.9666 | 0.0000 | |
| Beam 50: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | -17.3185 | -49.9657 | -10.5676 | 0.0000 | |
| Beam 50: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 50: End 2: 15: TERM | 0.0000 | 0.0000 | 7.5707 | -63.8825 | -38.8522 | 0.0000 | |
| Beam 50: End 2: 16: RITIRO | 0.0000 | 0.0000 | -5.6528 | 47.6990 | 29.0096 | 0.0000 | |
| Beam 50: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 45.2878 | 145.4752 | 53.1424 | 0.0000 | |
| Beam 50: End 2: 18: SISMA_H | 0.0000 | 0.0000 | -23.1060 | -64.1925 | -2.3221 | 0.0000 | |
| Beam 50: End 2: 19: SISMA_V | 0.0000 | 0.0000 | -9.0500 | 16.3989 | 10.3126 | 0.0000 | |

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|---|--|---|-------|----------------|---|
| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|-----------|----------|----------|--------|--|
| Beam 50: End 2: 20: SPSSX | 0.0000 | 0.0000 | -7.2211 | -19.8430 | -3.9639 | 0.0000 | |
| Beam 50: End 2: 21: SPSPDX | 0.0000 | 0.0000 | 3.0160 | -0.9867 | -48.6161 | 0.0000 | |
| Beam 50: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | -148.8248 | 667.6438 | 346.7944 | 0.0000 | |
| Beam 50: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | -99.9804 | 978.5395 | 483.7395 | 0.0000 | |
| Beam 50: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | -159.0460 | 629.4586 | 325.9243 | 0.0000 | |
| Beam 50: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | -171.1457 | 596.0449 | 319.2090 | 0.0000 | |
| Beam 50: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | -117.8394 | 763.6998 | 366.2128 | 0.0000 | |
| Beam 50: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | -5.5223 | 418.6407 | 162.3150 | 0.0000 | |
| Beam 50: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | -177.9593 | 653.5392 | 354.1760 | 0.0000 | |
| Beam 50: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | -30.2333 | 215.0452 | 83.9622 | 0.0000 | |
| Beam 50: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | -145.0555 | 670.9752 | 334.9551 | 0.0000 | |
| Beam 50: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -140.6738 | 822.0608 | 329.2449 | 0.0000 | |
| Beam 50: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | -158.2790 | 834.6815 | 415.8571 | 0.0000 | |
| Beam 50: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | -135.5669 | 643.0339 | 299.3006 | 0.0000 | |
| Beam 50: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | -120.2984 | 628.6771 | 319.0121 | 0.0000 | |
| Beam 50: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | -73.2602 | 934.5751 | 454.9504 | 0.0000 | |
| Beam 50: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | -132.3257 | 585.4942 | 297.1351 | 0.0000 | |
| Beam 50: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | -142.6193 | 557.0782 | 291.4267 | 0.0000 | |
| Beam 50: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | -89.3130 | 724.7330 | 338.4305 | 0.0000 | |
| Beam 50: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | -3.7161 | 423.6383 | 163.3218 | 0.0000 | |
| Beam 50: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | -149.4329 | 614.5725 | 326.3937 | 0.0000 | |
| Beam 50: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | -28.4271 | 220.0429 | 84.9690 | 0.0000 | |
| Beam 50: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | -117.4773 | 629.2730 | 306.5943 | 0.0000 | |
| Beam 50: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -115.8405 | 774.6600 | 312.2250 | 0.0000 | |
| Beam 50: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | -131.0619 | 791.9798 | 387.2949 | 0.0000 | |
| Beam 50: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | -108.3498 | 600.3322 | 270.7384 | 0.0000 | |
| Beam 50: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | -157.6417 | 635.0055 | 327.4491 | 0.0000 | |
| Beam 50: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | -130.0634 | 593.3034 | 299.0882 | 0.0000 | |
| Beam 50: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | -54.3526 | 353.9737 | 136.5199 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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|--|--------|--------|----------|----------|----------|
| Beam 50: End 2: 49: SLU_SISMA02 [Combination 28] 0.0000 | 0.0000 | 0.0000 | -48.9226 | 344.1343 | 130.3323 |
| Beam 50: End 2: 50: SLU_SISMA03 [Combination 29] 0.0000 | 0.0000 | 0.0000 | -18.3777 | 463.5024 | 185.8162 |
| Beam 50: End 2: 51: SLU_SISMA04 [Combination 30] 0.0000 | 0.0000 | 0.0000 | -12.9477 | 453.6631 | 179.6286 |
| Beam 50: End 2: 52: SLU_SISMA05 [Combination 31] 0.0000 | 0.0000 | 0.0000 | -46.6246 | 411.0783 | 179.3954 |
| Beam 50: End 2: 53: SLU_SISMA06 [Combination 32] 0.0000 | 0.0000 | 0.0000 | -28.5246 | 378.2806 | 158.7702 |
| Beam 50: End 2: 54: SLU_SISMA07 [Combination 33] 0.0000 | 0.0000 | 0.0000 | -35.8321 | 443.9370 | 194.1843 |
| Beam 50: End 2: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -17.7321 | 411.1392 | 173.5591 |
| Beam 50: End 2: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | -50.4179 | 348.5989 | 132.6878 |
| Beam 50: End 2: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | -44.9879 | 338.7596 | 126.5003 |
| Beam 50: End 2: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -14.4431 | 458.1277 | 181.9841 |
| Beam 50: End 2: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -9.0131 | 448.2884 | 175.7966 |
| Beam 50: End 2: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | -42.6899 | 405.7036 | 175.5634 |
| Beam 50: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | -24.5899 | 372.9059 | 154.9382 |
| Beam 50: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -31.8975 | 438.5622 | 190.3522 |
| Beam 50: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -13.7975 | 405.7645 | 169.7271 |
| Beam 50: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -31.1457 | 635.9640 | 238.5170 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |


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|---|--------|--------|----------|----------|-----------|
| Beam 50: End 2: 65: SLE_RARA02 [Combination 44] | 0.0000 | 0.0000 | -50.8166 | 476.3413 | 174.3479 |
| 0.0000 | | | | | |
| Beam 50: End 2: 66: SLE_RARA03 [Combination 45] | 0.0000 | 0.0000 | -68.8297 | 599.2404 | 295.7083 |
| 0.0000 | | | | | |
| Beam 50: End 2: 67: SLE_RARA04 [Combination 46] | 0.0000 | 0.0000 | -16.9712 | 611.0599 | 229.3630 |
| 0.0000 | | | | | |
| Beam 50: End 2: 68: SLE_RARA05 [Combination 47] | 0.0000 | 0.0000 | -35.5958 | 454.4557 | 165.8322 |
| 0.0000 | | | | | |
| Beam 50: End 2: 69: SLE_RARA06 [Combination 48] | 0.0000 | 0.0000 | -53.0910 | 577.7416 | 280.3801 |
| 0.0000 | | | | | |
| Beam 50: End 2: 70: SLE_RARA07 [Combination 49] | 0.0000 | 0.0000 | -77.9685 | 598.9483 | 291.2409 |
| 0.0000 | | | | | |
| Beam 50: End 2: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | -58.9489 | 570.1882 | 271.6817 |
| 0.0000 | | | | | |
| Beam 50: End 2: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 1.9952 | 314.0556 | 117.0691 |
| 0.0000 | | | | | |
| Beam 50: End 2: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | -55.2309 | 565.8941 | 267.2001 |
| 0.0000 | | | | | |
| Beam 50: End 2: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | -40.0153 | 542.8860 | 251.5527 |
| 0.0000 | | | | | |
| Beam 50: End 2: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 177.9593 | 978.5395 | 483.7395 |
| 0.0000 | | | | | |
| Beam 50: End 2: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 177.9593 | 978.5395 | 483.7395 |
| 0.0000 | | | | | |
| Beam 50: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 54.3526 | 463.5024 | 194.1843 |
| 0.0000 | | | | | |
| Beam 50: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 77.9685 | 635.9640 | 295.7083 |
| 0.0000 | | | | | |
| Beam 50: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 55.2309 | 565.8941 | 267.2001 |
| 0.0000 | | | | | |
| Beam 50: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 1.9952 | 314.0556 | 117.0691 |
| 0.0000 | | | | | |
| Beam 51: End 1: 1: PP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -575.4466 |
| | | | | | 0.0000 |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |

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|--|--------|--------|----------|-----------|------------|--------|--|
| Beam 51: End 1: 2: PERM | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -222.3574 | 0.0000 | |
| Beam 51: End 1: 3: SPTSX | 0.0000 | 0.0000 | 38.4215 | -120.3890 | 4.0562 | 0.0000 | |
| Beam 51: End 1: 4: SPTDX | 0.0000 | 0.0000 | -38.4215 | 120.3890 | 4.0562 | 0.0000 | |
| Beam 51: End 1: 5: SPTW | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 115.0212 | 0.0000 | |
| Beam 51: End 1: 6: ACC_LM71 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -677.3241 | 0.0000 | |
| Beam 51: End 1: 7: ACC_SW2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -551.5518 | 0.0000 | |
| Beam 51: End 1: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 42.8942 | -133.4680 | 3.2902 | 0.0000 | |
| Beam 51: End 1: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -42.8942 | 133.4680 | 3.2902 | 0.0000 | |
| Beam 51: End 1: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 35.0729 | -109.1328 | 2.6920 | 0.0000 | |
| Beam 51: End 1: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -35.0729 | 109.1328 | 2.6920 | 0.0000 | |
| Beam 51: End 1: 12: AVV_LM71 | 0.0000 | 0.0000 | 120.4429 | -367.6627 | 0.0000 | 0.0000 | |
| Beam 51: End 1: 13: FREN_SW2 | 0.0000 | 0.0000 | 116.0609 | -354.2862 | 0.0000 | 0.0000 | |
| Beam 51: End 1: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 51: End 1: 15: TERM | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -15.1414 | 0.0000 | |
| Beam 51: End 1: 16: RITIRO | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 11.3056 | 0.0000 | |
| Beam 51: End 1: 17: ACC_SOLINF | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -90.5755 | 0.0000 | |
| Beam 51: End 1: 18: SISMA_H | 0.0000 | 0.0000 | 159.6358 | -488.8143 | 0.0000 | 0.0000 | |
| Beam 51: End 1: 19: SISMA_V | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -64.0400 | 0.0000 | |
| Beam 51: End 1: 20: SPSSX | 0.0000 | 0.0000 | 44.6521 | -139.5710 | 4.2051 | 0.0000 | |
| Beam 51: End 1: 21: SPSPDX | 0.0000 | 0.0000 | -44.6521 | 139.5710 | 4.2051 | 0.0000 | |
| Beam 51: End 1: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 236.8388 | -726.6396 | -1964.6044 | 0.0000 | |
| Beam 51: End 1: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 174.6422 | -533.1109 | -2047.2489 | 0.0000 | |
| Beam 51: End 1: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 174.6422 | -533.1109 | -1929.1178 | 0.0000 | |
| Beam 51: End 1: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 250.2863 | -768.7757 | -1922.9273 | 0.0000 | |
| Beam 51: End 1: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 236.8388 | -726.6396 | -2026.5753 | 0.0000 | |
| Beam 51: End 1: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 62.1966 | -193.5286 | -939.3877 | 0.0000 | |
| Beam 51: End 1: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 250.2863 | -768.7757 | -1909.3001 | 0.0000 | |
| Beam 51: End 1: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 75.6442 | -235.6648 | -628.2224 | 0.0000 | |
| Beam 51: End 1: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 75.6442 | -235.6648 | -1922.9879 | 0.0000 | |
| Beam 51: End 1: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -75.6442 | 235.6648 | -1895.7334 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|-----------|------------|--------|
| Beam 51: End 1: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 36.3098 | -112.6868 | -1887.6027 | 0.0000 |
| Beam 51: End 1: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 36.3098 | -112.6868 | -1933.0269 | 0.0000 |
| Beam 51: End 1: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 219.1439 | -671.9576 | -1783.1021 | 0.0000 |
| Beam 51: End 1: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 168.2882 | -513.7150 | -1864.8791 | 0.0000 |
| Beam 51: End 1: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 168.2882 | -513.7150 | -1746.7480 | 0.0000 |
| Beam 51: End 1: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 232.5915 | -714.0938 | -1741.4250 | 0.0000 |
| Beam 51: End 1: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 219.1439 | -671.9576 | -1845.0729 | 0.0000 |
| Beam 51: End 1: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 50.8557 | -158.2426 | -940.2551 | 0.0000 |
| Beam 51: End 1: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 232.5915 | -714.0938 | -1727.7977 | 0.0000 |
| Beam 51: End 1: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 64.3032 | -200.3788 | -629.0898 | 0.0000 |
| Beam 51: End 1: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 64.3032 | -200.3788 | -1741.4855 | 0.0000 |
| Beam 51: End 1: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -64.3032 | 200.3788 | -1714.2310 | 0.0000 |
| Beam 51: End 1: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 27.2370 | -84.4580 | -1705.9268 | 0.0000 |
| Beam 51: End 1: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 27.2370 | -84.4580 | -1751.3510 | 0.0000 |
| Beam 51: End 1: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 159.7883 | -492.5223 | -1922.9273 | 0.0000 |
| Beam 51: End 1: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 148.4474 | -457.2363 | -1741.4250 | 0.0000 |
| Beam 51: End 1: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 147.6511 | -449.4695 | -805.6077 | 0.0000 |
| Beam 51: End 1: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 147.6511 | -449.4695 | -767.1837 | 0.0000 |
| Beam 51: End 1: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -82.3163 | 249.0172 | -805.6077 | 0.0000 |
| Beam 51: End 1: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -82.3163 | 249.0172 | -767.1837 | 0.0000 |
| Beam 51: End 1: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 67.1625 | -204.9991 | -853.3793 | 0.0000 |
| Beam 51: End 1: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 67.1625 | -204.9991 | -725.2993 | 0.0000 |
| Beam 51: End 1: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -1.8277 | 4.5468 | -853.3793 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |

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| Beam 51: End 1: 55: SLU_SISMA08 [Combination 34] 0.0000 | 0.0000 | 0.0000 | -1.8277 | 4.5468 | -725.2993 |
| Beam 51: End 1: 56: SLU_SISMA09 [Combination 35] 0.0000 | 0.0000 | 0.0000 | 145.2105 | -441.9271 | -780.5729 |
| Beam 51: End 1: 57: SLU_SISMA10 [Combination 36] 0.0000 | 0.0000 | 0.0000 | 145.2105 | -441.9271 | -742.1489 |
| Beam 51: End 1: 58: SLU_SISMA11 [Combination 37] 0.0000 | 0.0000 | 0.0000 | -84.7570 | 256.5595 | -780.5729 |
| Beam 51: End 1: 59: SLU_SISMA12 [Combination 38] 0.0000 | 0.0000 | 0.0000 | -84.7570 | 256.5595 | -742.1489 |
| Beam 51: End 1: 60: SLU_SISMA13 [Combination 39] 0.0000 | 0.0000 | 0.0000 | 64.7219 | -197.4568 | -828.3445 |
| Beam 51: End 1: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 64.7219 | -197.4568 | -700.2645 |
| Beam 51: End 1: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -4.2684 | 12.0892 | -828.3445 |
| Beam 51: End 1: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -4.2684 | 12.0892 | -700.2645 |
| Beam 51: End 1: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -96.3543 | 294.1302 | -1274.6408 |
| Beam 51: End 1: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 96.3543 | -294.1302 | -1292.8105 |
| Beam 51: End 1: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 138.3540 | -424.9824 | -1266.7787 |
| Beam 51: End 1: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -92.8487 | 283.4290 | -1174.9802 |
| Beam 51: End 1: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 92.8487 | -283.4290 | -1193.1499 |
| Beam 51: End 1: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 128.5913 | -394.8130 | -1166.6394 |
| Beam 51: End 1: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 108.6090 | -334.6889 | -1412.8910 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto IN17</p> | <p>Lotto 12</p> | <p>Codifica EI2CLSL0900001</p> | <p>A</p> |



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| Beam 51: End 1: 71: SLE_RARA08 [Combination 50] | 0.0000 | 0.0000 | 100.7876 | -310.3537 | -1287.7170 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 72: SLE_QPERM01 [Combination 51] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -674.6703 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 73: SLE_FREQ01 [Combination 52] | 0.0000 | 0.0000 | 90.1768 | -277.9173 | -1279.5984 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 74: SLE_FREQ02 [Combination 53] | 0.0000 | 0.0000 | 83.9198 | -258.4491 | -1179.4591 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 75: SLU/SLV [Absolute Envelope 1] | 0.0000 | 0.0000 | 250.2863 | 768.7757 | 2047.2489 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 76: SLU [Absolute Envelope 2] | 0.0000 | 0.0000 | 250.2863 | 768.7757 | 2047.2489 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 147.6511 | 449.4695 | 853.3793 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 138.3540 | 424.9824 | 1412.8910 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 90.1768 | 277.9173 | 1279.5984 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 1: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 674.6703 | | |
| 0.0000 | | | | | | | |
| Beam 51: End 2: 1: PP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -467.5366 | 0.0000 | |
| Beam 51: End 2: 2: PERM | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -222.3574 | 0.0000 | |
| Beam 51: End 2: 3: SPTSX | 0.0000 | 0.0000 | 38.4215 | 48.6658 | 4.0562 | 0.0000 | |
| Beam 51: End 2: 4: SPTDX | 0.0000 | 0.0000 | -38.4215 | -48.6658 | 4.0562 | 0.0000 | |
| Beam 51: End 2: 5: SPTW | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 115.0212 | 0.0000 | |
| Beam 51: End 2: 6: ACC_LM71 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -677.3241 | 0.0000 | |
| Beam 51: End 2: 7: ACC_SW2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -551.5518 | 0.0000 | |
| Beam 51: End 2: 8: SPACCSX_LM71 | 0.0000 | 0.0000 | 42.8942 | 55.2666 | 3.2902 | 0.0000 | |
| Beam 51: End 2: 9: SPACCDX_LM71 | 0.0000 | 0.0000 | -42.8942 | -55.2666 | 3.2902 | 0.0000 | |
| Beam 51: End 2: 10: SPACCSX_SW2 | 0.0000 | 0.0000 | 35.0729 | 45.1879 | 2.6920 | 0.0000 | |
| Beam 51: End 2: 11: SPACCDX_SW2 | 0.0000 | 0.0000 | -35.0729 | -45.1879 | 2.6920 | 0.0000 | |
| Beam 51: End 2: 12: AVV_LM71 | 0.0000 | 0.0000 | 120.4429 | 162.2859 | 0.0000 | 0.0000 | |

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| GENERAL CONTRACTOR  | | ALTA SORVEGLIANZA  | | | |
| | | Progetto | Lotto | Codifica | |
| | | IN17 | 12 | EI2CLSL0900001 | A |



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| Beam 51: End 2: 13: FREN_SW2 | 0.0000 | 0.0000 | 116.0609 | 156.3816 | 0.0000 | 0.0000 | |
| Beam 51: End 2: 14: SERP | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Beam 51: End 2: 15: TERM | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -15.1414 | 0.0000 | |
| Beam 51: End 2: 16: RITIRO | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 11.3056 | 0.0000 | |
| Beam 51: End 2: 17: ACC_SOLINF | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -90.5755 | 0.0000 | |
| Beam 51: End 2: 18: SISMA_H | 0.0000 | 0.0000 | 159.6358 | 213.5834 | 0.0000 | 0.0000 | |
| Beam 51: End 2: 19: SISMA_V | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -64.0400 | 0.0000 | |
| Beam 51: End 2: 20: SPSSX | 0.0000 | 0.0000 | 44.6521 | 56.8984 | 4.2051 | 0.0000 | |
| Beam 51: End 2: 21: SPSDX | 0.0000 | 0.0000 | -44.6521 | -56.8984 | 4.2051 | 0.0000 | |
| Beam 51: End 2: 22: SLU01 [Combination 1] | 0.0000 | 0.0000 | 236.8388 | 315.4512 | -1818.9259 | 0.0000 | |
| Beam 51: End 2: 23: SLU02 [Combination 2] | 0.0000 | 0.0000 | 174.6422 | 235.3146 | -1901.5704 | 0.0000 | |
| Beam 51: End 2: 24: SLU03 [Combination 3] | 0.0000 | 0.0000 | 174.6422 | 235.3146 | -1783.4393 | 0.0000 | |
| Beam 51: End 2: 25: SLU04 [Combination 4] | 0.0000 | 0.0000 | 250.2863 | 332.4842 | -1777.2488 | 0.0000 | |
| Beam 51: End 2: 26: SLU05 [Combination 5] | 0.0000 | 0.0000 | 236.8388 | 315.4512 | -1880.8968 | 0.0000 | |
| Beam 51: End 2: 27: SLU06 [Combination 6] | 0.0000 | 0.0000 | 62.1966 | 80.1366 | -793.7092 | 0.0000 | |
| Beam 51: End 2: 28: SLU07 [Combination 7] | 0.0000 | 0.0000 | 250.2863 | 332.4842 | -1763.6216 | 0.0000 | |
| Beam 51: End 2: 29: SLU08 [Combination 8] | 0.0000 | 0.0000 | 75.6442 | 97.1696 | -520.3124 | 0.0000 | |
| Beam 51: End 2: 30: SLU09 [Combination 9] | 0.0000 | 0.0000 | 75.6442 | 97.1696 | -1777.3094 | 0.0000 | |
| Beam 51: End 2: 31: SLU10 [Combination 10] | 0.0000 | 0.0000 | -75.6442 | -97.1696 | -1750.0549 | 0.0000 | |
| Beam 51: End 2: 32: SLU11 [Combination 11] | 0.0000 | 0.0000 | 36.3098 | 47.0762 | -1741.9242 | 0.0000 | |
| Beam 51: End 2: 33: SLU12 [Combination 12] | 0.0000 | 0.0000 | 36.3098 | 47.0762 | -1787.3484 | 0.0000 | |
| Beam 51: End 2: 34: SLU13 [Combination 13] | 0.0000 | 0.0000 | 219.1439 | 292.2757 | -1637.4236 | 0.0000 | |
| Beam 51: End 2: 35: SLU14 [Combination 14] | 0.0000 | 0.0000 | 168.2882 | 226.7533 | -1719.2006 | 0.0000 | |
| Beam 51: End 2: 36: SLU15 [Combination 15] | 0.0000 | 0.0000 | 168.2882 | 226.7533 | -1601.0695 | 0.0000 | |
| Beam 51: End 2: 37: SLU16 [Combination 16] | 0.0000 | 0.0000 | 232.5915 | 309.3087 | -1595.7465 | 0.0000 | |
| Beam 51: End 2: 38: SLU17 [Combination 17] | 0.0000 | 0.0000 | 219.1439 | 292.2757 | -1699.3944 | 0.0000 | |
| Beam 51: End 2: 39: SLU18 [Combination 18] | 0.0000 | 0.0000 | 50.8557 | 65.5224 | -794.5766 | 0.0000 | |
| Beam 51: End 2: 40: SLU19 [Combination 19] | 0.0000 | 0.0000 | 232.5915 | 309.3087 | -1582.1192 | 0.0000 | |
| Beam 51: End 2: 41: SLU20 [Combination 20] | 0.0000 | 0.0000 | 64.3032 | 82.5555 | -521.1798 | 0.0000 | |
| Beam 51: End 2: 42: SLU21 [Combination 21] | 0.0000 | 0.0000 | 64.3032 | 82.5555 | -1595.8070 | 0.0000 | |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |



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| Beam 51: End 2: 43: SLU22 [Combination 22] | 0.0000 | 0.0000 | -64.3032 | -82.5555 | -1568.5525 | 0.0000 |
| Beam 51: End 2: 44: SLU23 [Combination 23] | 0.0000 | 0.0000 | 27.2370 | 35.3849 | -1560.2483 | 0.0000 |
| Beam 51: End 2: 45: SLU24 [Combination 24] | 0.0000 | 0.0000 | 27.2370 | 35.3849 | -1605.6725 | 0.0000 |
| Beam 51: End 2: 46: SLU25 [Combination 25] | 0.0000 | 0.0000 | 159.7883 | 210.5462 | -1777.2488 | 0.0000 |
| Beam 51: End 2: 47: SLU26 [Combination 26] | 0.0000 | 0.0000 | 148.4474 | 195.9321 | -1595.7465 | 0.0000 |
| Beam 51: End 2: 48: SLU_SISMA01 [Combination 27] | 0.0000 | 0.0000 | 147.6511 | 200.1955 | -697.6977 | 0.0000 |
| Beam 51: End 2: 49: SLU_SISMA02 [Combination 28] | 0.0000 | 0.0000 | 147.6511 | 200.1955 | -659.2737 | 0.0000 |
| Beam 51: End 2: 50: SLU_SISMA03 [Combination 29] | 0.0000 | 0.0000 | -82.3163 | -113.1745 | -697.6977 | 0.0000 |
| Beam 51: End 2: 51: SLU_SISMA04 [Combination 30] | 0.0000 | 0.0000 | -82.3163 | -113.1745 | -659.2737 | 0.0000 |
| Beam 51: End 2: 52: SLU_SISMA05 [Combination 31] | 0.0000 | 0.0000 | 67.1625 | 90.5160 | -745.4693 | 0.0000 |
| Beam 51: End 2: 53: SLU_SISMA06 [Combination 32] | 0.0000 | 0.0000 | 67.1625 | 90.5160 | -617.3893 | 0.0000 |
| Beam 51: End 2: 54: SLU_SISMA07 [Combination 33] | 0.0000 | 0.0000 | -1.8277 | -3.4950 | -745.4693 | 0.0000 |
| Beam 51: End 2: 55: SLU_SISMA08 [Combination 34] | 0.0000 | 0.0000 | -1.8277 | -3.4950 | -617.3893 | 0.0000 |
| Beam 51: End 2: 56: SLU_SISMA09 [Combination 35] | 0.0000 | 0.0000 | 145.2105 | 196.9989 | -672.6629 | 0.0000 |
| Beam 51: End 2: 57: SLU_SISMA10 [Combination 36] | 0.0000 | 0.0000 | 145.2105 | 196.9989 | -634.2389 | 0.0000 |
| Beam 51: End 2: 58: SLU_SISMA11 [Combination 37] | 0.0000 | 0.0000 | -84.7570 | -116.3711 | -672.6629 | 0.0000 |
| Beam 51: End 2: 59: SLU_SISMA12 [Combination 38] | 0.0000 | 0.0000 | -84.7570 | -116.3711 | -634.2389 | 0.0000 |
| Beam 51: End 2: 60: SLU_SISMA13 [Combination 39] | 0.0000 | 0.0000 | 64.7219 | 87.3194 | -720.4345 | 0.0000 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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| Beam 51: End 2: 61: SLU_SISMA14 [Combination 40] 0.0000 | 0.0000 | 0.0000 | 64.7219 | 87.3194 | -592.3545 |
| Beam 51: End 2: 62: SLU_SISMA15 [Combination 41] 0.0000 | 0.0000 | 0.0000 | -4.2684 | -6.6916 | -720.4345 |
| Beam 51: End 2: 63: SLU_SISMA16 [Combination 42] 0.0000 | 0.0000 | 0.0000 | -4.2684 | -6.6916 | -592.3545 |
| Beam 51: End 2: 64: SLE_RARA01 [Combination 43] 0.0000 | 0.0000 | 0.0000 | -96.3543 | -129.8288 | -1166.7308 |
| Beam 51: End 2: 65: SLE_RARA02 [Combination 44] 0.0000 | 0.0000 | 0.0000 | 96.3543 | 129.8288 | -1184.9005 |
| Beam 51: End 2: 66: SLE_RARA03 [Combination 45] 0.0000 | 0.0000 | 0.0000 | 138.3540 | 183.7752 | -1158.8687 |
| Beam 51: End 2: 67: SLE_RARA04 [Combination 46] 0.0000 | 0.0000 | 0.0000 | -92.8487 | -125.1053 | -1067.0702 |
| Beam 51: End 2: 68: SLE_RARA05 [Combination 47] 0.0000 | 0.0000 | 0.0000 | 92.8487 | 125.1053 | -1085.2399 |
| Beam 51: End 2: 69: SLE_RARA06 [Combination 48] 0.0000 | 0.0000 | 0.0000 | 128.5913 | 170.9887 | -1058.7294 |
| Beam 51: End 2: 70: SLE_RARA07 [Combination 49] 0.0000 | 0.0000 | 0.0000 | 108.6090 | 143.1905 | -1304.9810 |
| Beam 51: End 2: 71: SLE_RARA08 [Combination 50] 0.0000 | 0.0000 | 0.0000 | 100.7876 | 133.1118 | -1179.8070 |
| Beam 51: End 2: 72: SLE_QPERM01 [Combination 51] 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -566.7603 |
| Beam 51: End 2: 73: SLE_FREQ01 [Combination 52] 0.0000 | 0.0000 | 0.0000 | 90.1768 | 118.8608 | -1171.6884 |
| Beam 51: End 2: 74: SLE_FREQ02 [Combination 53] 0.0000 | 0.0000 | 0.0000 | 83.9198 | 110.7978 | -1071.5491 |
| Beam 51: End 2: 75: SLU/SLV [Absolute Envelope 1] 0.0000 | 0.0000 | 0.0000 | 250.2863 | 332.4842 | 1901.5704 |
| Beam 51: End 2: 76: SLU [Absolute Envelope 2] 0.0000 | 0.0000 | 0.0000 | 250.2863 | 332.4842 | 1901.5704 |

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| <p>GENERAL CONTRACTOR</p>  | <p>ALTA SORVEGLIANZA</p>  | | | |
| | <p>Progetto</p> <p>IN17</p> | <p>Lotto</p> <p>12</p> | <p>Codifica</p> <p>EI2CLSL0900001</p> | <p>A</p> |

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|--|--------|--------|----------|----------|-----------|
| Beam 51: End 2: 77: SLV [Absolute Envelope 3] | 0.0000 | 0.0000 | 147.6511 | 200.1955 | 745.4693 |
| 0.0000 | | | | | |
| Beam 51: End 2: 78: SLE R [Absolute Envelope 4] | 0.0000 | 0.0000 | 138.3540 | 183.7752 | 1304.9810 |
| 0.0000 | | | | | |
| Beam 51: End 2: 79: SLE F [Absolute Envelope 5] | 0.0000 | 0.0000 | 90.1768 | 118.8608 | 1171.6884 |
| 0.0000 | | | | | |
| Beam 51: End 2: 80: SLE PQ [Absolute Envelope 6] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 566.7603 |
| 0.0000 | | | | | |

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| GENERAL CONTRACTOR  | ALTA SORVEGLIANZA  | | | |
| | Progetto IN17 | Lotto 12 | Codifica EI2CLSL0900001 | A |

16 DICHIARAZIONE SECONDO NTC2008 (§ 10.2)

Nel presente paragrafo si procede al controllo dei risultati derivanti dal modello di calcolo verificando che il momento agente sulla soletta superiore in condizione SLE corrisponda al valore che si ottiene dal calcolo di una trave su 2 appoggi, considerando un vincolo di semi-incastro alle due estremità (in modo tale da meglio rappresentare il vincolo fra soletta superiore ed i piedritti della struttura).

| Sollecitazioni soletta superiore | | |
|----------------------------------|-------|------|
| Peso proprio | 25.00 | kN/m |
| Permanenti | 13.50 | kN/m |
| Accidentale | 60.70 | kN/m |

| | | |
|-----------|------|---|
| L soletta | 7.40 | m |
|-----------|------|---|

| | | |
|------|--------|-----|
| MEd- | -543.2 | kNm |
| MEd+ | 379.9 | kNm |

| Sollecitazioni soletta superiore modello di calcolo | | |
|---|--------|-----|
| MEd- | -533.6 | kNm |
| MEd+ | 367.5 | kNm |

| | MIN | MAX |
|-----------|-----------|----------|
| BM2(kN.m) | -660.6848 | 711.1737 |
| [Bm.44] | [Bm.7] | |

