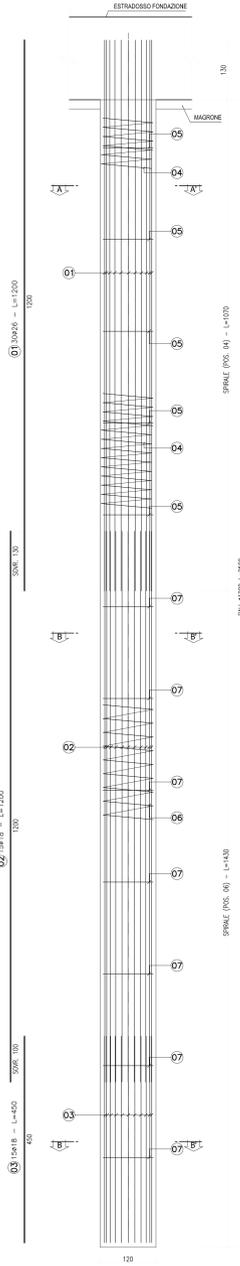
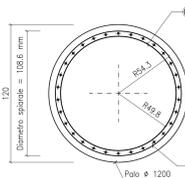


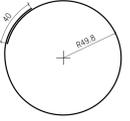
**ARMATURA PALO Ø1200**  
SPALLA A - CARREG. SX  
SCALA 1:50



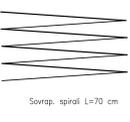
**SEZIONE A-A'**  
SCALA 1:20



Ø5 Cerchione Ø24/200 - L=352



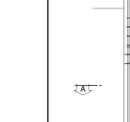
Ø7 Cerchione Ø24/200 - L=354



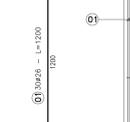
Ø4 Spirale Ø14/200 - L=1200



Ø6 Spirale Ø10/300 - L=1200



Sovrap. spirali L=70 cm



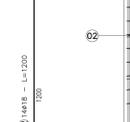
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



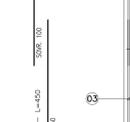
Sovrap. spirali L=70 cm



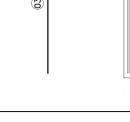
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm

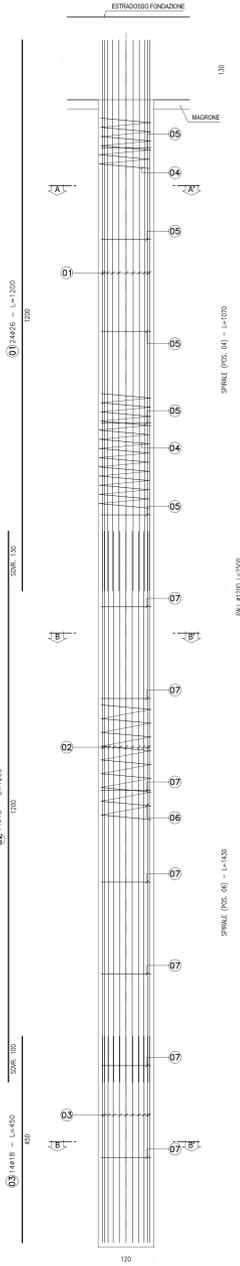


Sovrap. spirali L=70 cm

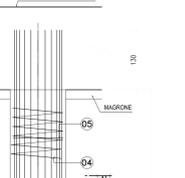


Sovrap. spirali L=70 cm

**ARMATURA PALO Ø1200**  
SPALLA B - CARREG. SX  
SCALA 1:50



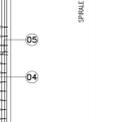
**SEZIONE A-A'**  
SCALA 1:20



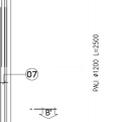
Ø5 Cerchione Ø24/200 - L=352



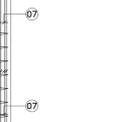
Ø7 Cerchione Ø24/200 - L=354



Ø4 Spirale Ø14/200 - L=1200



Ø6 Spirale Ø10/300 - L=1200



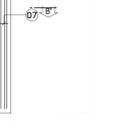
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



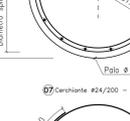
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



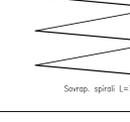
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm

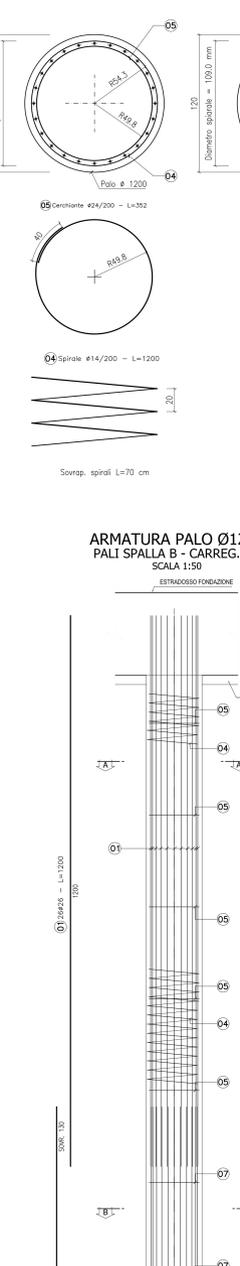


Sovrap. spirali L=70 cm

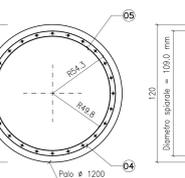


Sovrap. spirali L=70 cm

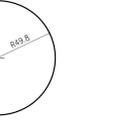
**ARMATURA PALO Ø1200**  
SPALLA C - CARREG. DX  
SCALA 1:50



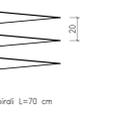
**SEZIONE A-A'**  
SCALA 1:20



Ø5 Cerchione Ø24/200 - L=352



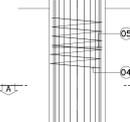
Ø7 Cerchione Ø24/200 - L=354



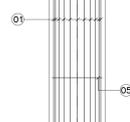
Ø4 Spirale Ø14/200 - L=1200



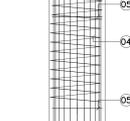
Ø6 Spirale Ø10/300 - L=1200



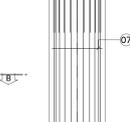
Sovrap. spirali L=70 cm



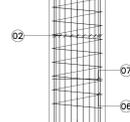
Sovrap. spirali L=70 cm



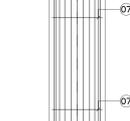
Sovrap. spirali L=70 cm



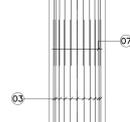
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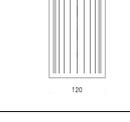
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm

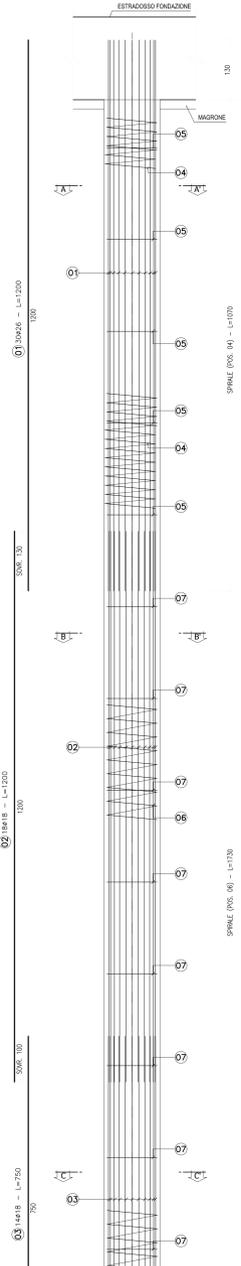


Sovrap. spirali L=70 cm

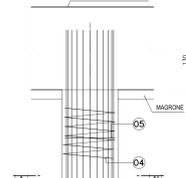


Sovrap. spirali L=70 cm

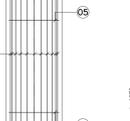
**ARMATURA PALI Ø1500**  
FILE  
SCALA 1:50



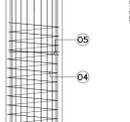
**SEZIONE A-A'**  
SCALA 1:20



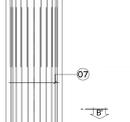
Ø3 Spirale Ø12/15 - L=1200



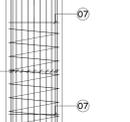
Ø3 Spirale Ø12/15 - L=1200



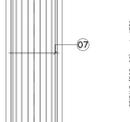
Ø3 Spirale Ø12/15 - L=1200



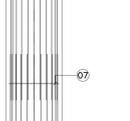
Ø3 Spirale Ø12/15 - L=1200



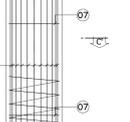
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



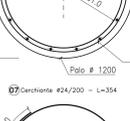
Sovrap. spirali L=70 cm



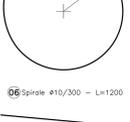
Sovrap. spirali L=70 cm



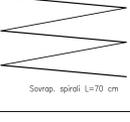
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm

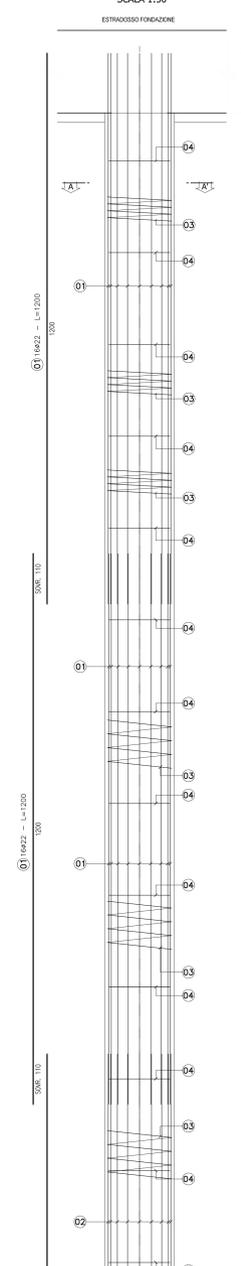


Sovrap. spirali L=70 cm

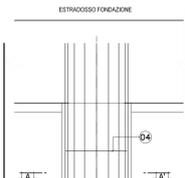


Sovrap. spirali L=70 cm

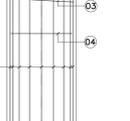
**ARMATURA PALI Ø1500**  
FILE  
SCALA 1:50



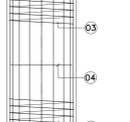
**SEZIONE A-A'**  
SCALA 1:20



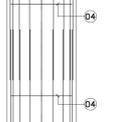
Ø3 Spirale Ø12/15 - L=1200



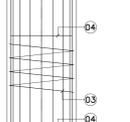
Ø3 Spirale Ø12/15 - L=1200



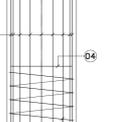
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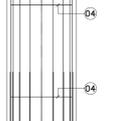
Ø3 Spirale Ø12/15 - L=1200



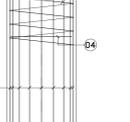
Sovrap. spirali L=70 cm



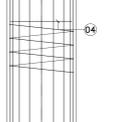
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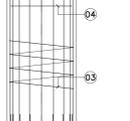
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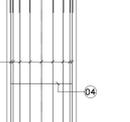
Sovrap. spirali L=70 cm



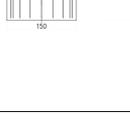
Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm

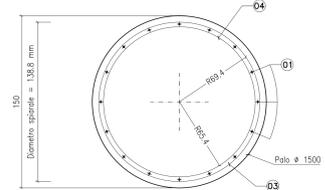


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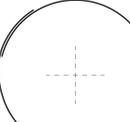


Sovrap. spirali L=70 cm

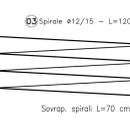
**SEZIONE A-A'**  
SCALA 1:20



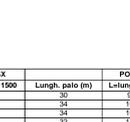
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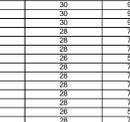
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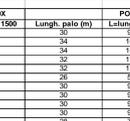
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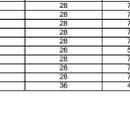
Ø3 Spirale Ø12/15 - L=1200



Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm



Sovrap. spirali L=70 cm

CONGLOMERATO CEMENTIZIO ORDINARIO				
Elemento Strutturale	Copriente minimo (cm)	Classe di resistenza (MPa)	Classe di esposizione	Classe di consistenza
CLS DI PULIZIA E LIVELLAMENTO	-	C12/15	-	-
PALI	5.0	C35/45	XD3	S3 - S4
ZATTERE DI PILE E SPALLE	3.5	C35/45	XD3	S3 - S4
ELEVAZIONE SPALLE	3.5	C28/35	XF2	S3 - S4
ELEVAZIONE PILE E PULVINI	3.5	C28/35	XF2	S3 - S4
BAGGIOLI	3.0	C35/45	XF2	S4
SOLETTA IMPALCATO	3.0	C32/40	XC4	S4
CORDOLI E MARCIAPIEDI	3.0	C32/40	XF2	S4
PREDALLE	3.0	C32/40	XC4	S4
VELETTE	3.0	C32/40	XF4	S4

**ARMATURE PER C.A.**

ACCIAIO AD ADERENZA MIGLIORATA CONTROLLATO IN STABILIMENTO AVENTE LE SEGUENTI CARATTERISTICHE:  
- B450S  
- fy/fyk < 1.35  
- (fy/fyk) medio > 1.13  
fy = Singolo valore tensione di snervamento  
fyk = Valore caratteristico di riferimento  
ft = Singolo valore tensione di rottura

**CARPENTERIA METALLICA**

TRAVI PRINCIPALI E TRASVERSALI  
- ACCIAIO EN 10025-5 S355J2W+N (ex Fe510 "Corten")  
(Spessori fino a 40 mm)  
- ACCIAIO EN 10025-5 S355K2W+N (ex Fe510 "Corten")  
(Spessori da 40 mm a 80 mm)  
- ACCIAIO EN 10025-5 S355N+W+N (ex Fe510 "Corten")  
(Spessori maggiori di 80 mm)

**CONTROSOLETTI** (comprensive le piastre di collegamento bullonate)

- ACCIAIO EN 10025-5 S355J2W+N (ex Fe510 "Corten")

**PILI**

Tipi "Nelson" Ø22  
Acciaio tipo S235J2+C450 secondo EN ISO 13918

**BULLONI AD ALTA RESISTENZA**

Bulloni ad Alta Resistenza per giunzioni ad attrito conformi alle specifiche contenute nel p.l. 11.3.4.6.2 del D.M. 14.01.2008:

- Viti di classe 10
- Dado classe 10
- Rondelle C 50

I bulloni dovranno essere montati con una rondella sotto la testa della vite e una rondella sotto il dado;

- I bulloni dovranno essere contrassegnati con le indicazioni del produttore e la classe di resistenza;

- I bulloni disposti verticalmente avranno la testa della vite rivolta verso l'alto e il dado verso il basso

**SALDATURE**

- SALDATURE: procedimenti di saldatura omologati e qualificati secondo D.M. 14.01.2008.

- Tutte le giunzioni per l'unione dei corni delle TRAVI PRINCIPALI saranno eseguite con saldature testa a testa a completa penetrazione di 1° classe

**NOTE CARPENTERIA METALLICA**

- LE TRAVI PRINCIPALI SARANNO INTERAMENTE SALDATE E SEGUIRANNO CON CONTINUITA' L'ANDAMENTO DEL TRACCIATO STRADALE

- I TRASVERSI INTERMEDI, DI PILA E DI SPALLA SARANNO COLLEGATI A TUTTE LE TRAVI PRINCIPALI CON GIUNZIONI SALDATE

- I GIUNTI DI SALDATURA ESEGUITI IN CANTIERE DOVRANNO ESSERE TRATTATI ESECUENDO UNA PULIZIA DELLA SUPERFICIE PER RIMUOVERE EVENTUALI SCORIE DI SALDATURA E QUINDI APPLICANDO IL CICLO DI VERNICIATURA COMPLETO

SOPRAPPONENDO ALLE MANI DA ESEGUIRE IN OTTINA PER UNA LUNGHEZZA DI 3 CM CIRCA. LA QUARTA MANO DI VERNICE DOVRA' ESSERE APPLICATA IN CANTIERE SOLAMENTE ALLA FINE DEL MONTAGGIO DELLE STRUTTURE ED ESECUITA SOLAMENTE DOPO AVER COMPLETATO IL NECESSARIO CICLO DELLE PARTI DANNEGGIATE DURANTE LE OPERAZIONI DI MONTAGGIO

- LE BULLONATURE DOVRANNO ESSERE SGROSSATE CON SOLVENTE COMPATIBILE CON LE VERNICI ADOTTATE, PRIMA DI ESSERE SOTTOPORTE ALLO STESSO CICLO DI VERNICIATURA PREVISTO PER LE STRUTTURE PRINCIPALI.



**PA 12/09**  
CORRIDOIO PLURIMODALE TIRRENICO - NORD EUROPA  
ITINERARIO AGRIGENTO - CALTANISSETTA - A19  
S.S. N° 640 "DI PORTO EMPEDOCLE"  
AMMODERNAMENTO E ADEGUAMENTO ALLA CAT. B DEL D.M. 5.11.2001  
Dal km 44+000 allo svincolo con I/A19

**PROGETTO ESECUTIVO**

Contratto Generale:

**OPERE D'ARTE MAGGIORI**  
VIADOTTI  
Viadotto Saiso  
Armatura Pali Spalle e Pile

Codice Unico Progetto (CUP): F91B0900070001  
Codice Elaborato:  
**PA12\_09 - E 1 5 8 V | 2 1 5 V | 1 1 5 8 B B 2 3 5 B** Scala: 1:50-1:20

REV.	DATA	DESCRIZIONE	REDATTO	VERIFICATO	APPROVATO	AUTORIZZATO
L	Luglio 2011	Revisione a seguito di incontri con il Committente	T. FASOLO	F. NIGRELLI	M. LITI	P. FAGLINI
A	Aprile 2011	EMISSIONE	T. FASOLO	F. NIGRELLI	M. LITI	P. FAGLINI

Il Progettista: Il Consulente Specialista: Il Coordinatore per la sicurezza in fase