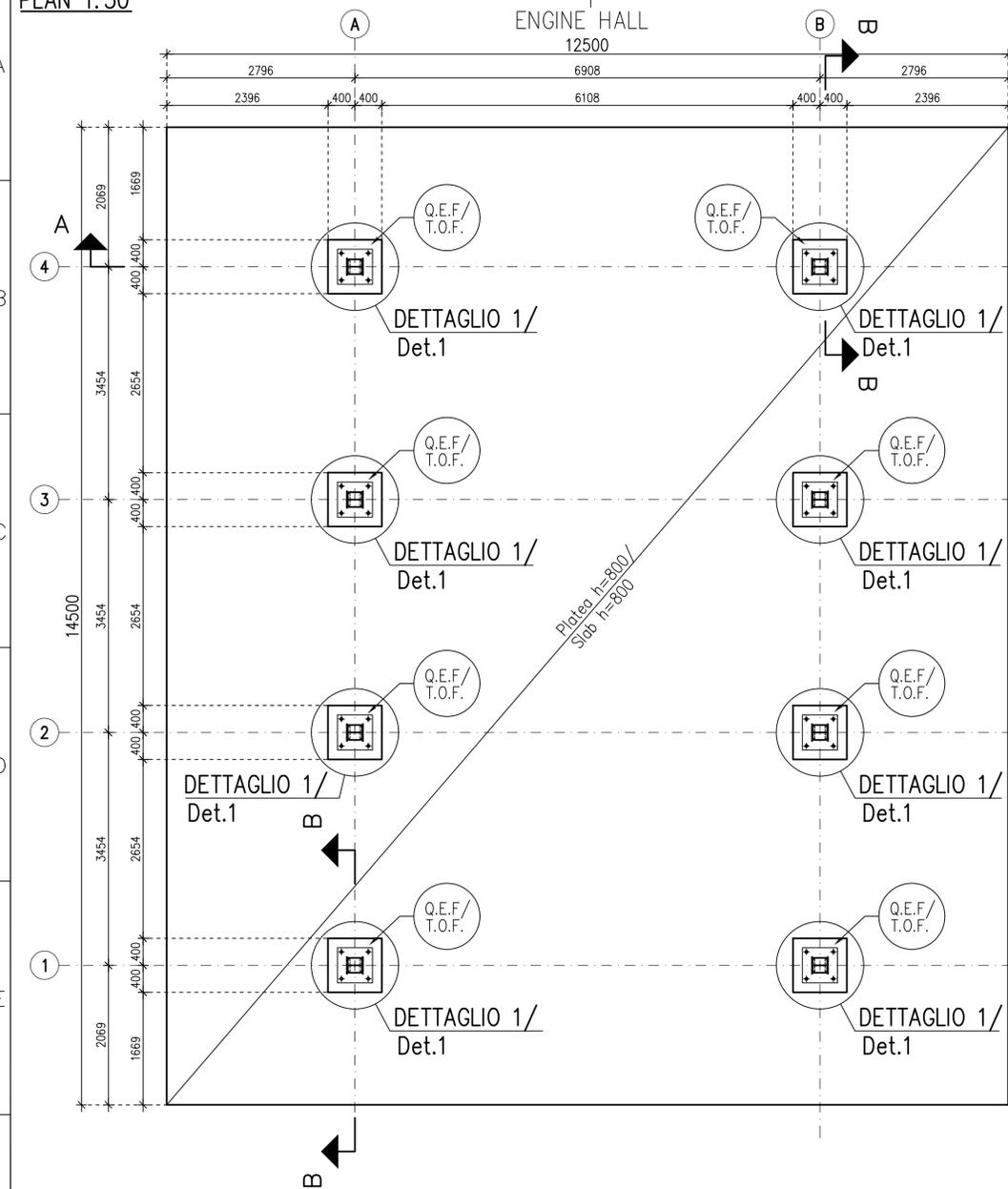
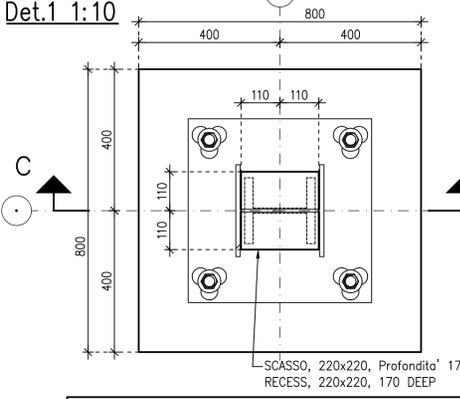


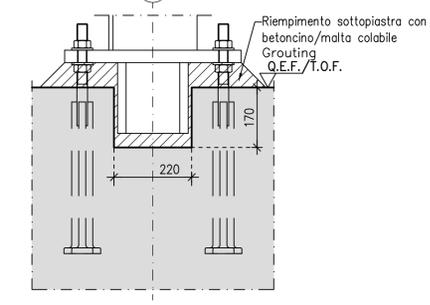
PIANTA 1:50
PLAN 1:50



DETTAGLIO 1:10/
Det.1 1:10



C-C 1:10



NOTA! PER TIRAFONDI E CHIAVI DI TAGLIO VEDERE TAVOLA PIANTE TIRAFONDI DBAE723460 /
NOTE! REFERENCE DRAWING DBAE723460 FOR ANCHOR BOLT DETAILS, LOCATION AND SHEAR KEY DETAILS.

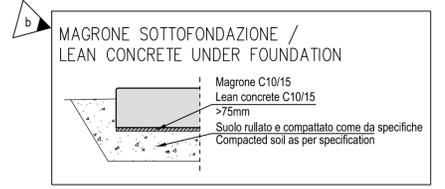
MATERIAL	AMOUNT
CALCESTRUZZO/Concrete (C28/35)	145.0 m ³
CALCESTRUZZO/Concrete (C32/40)	4.1 m ³
Casseri/Formwork	63.7 m ²

INDICAZIONI E QUOTE IN ELEVAZIONE / ELEVATION QUOTE NOTE:
Q.E.F.= Quota Estradosso Fondazioni (Top Of Foundation)
Q.P.F.=Quota Piano Finito (Finish Floor Level)
Q.E.T.=Quota Estradosso Trave (Top of Beam)
Q.E.C.=Quota Estradosso Colonna (Top of column)
Q.I.T.= Quota Intradosso Trave (Bottom of beam)
Q.I.C.=Quota Intradosso Colonna (Bottom of column)

Tolleranze e specifiche per opere in calcestruzzo:
Vedere manuale di qualità e installazione per strutture in calcestruzzo di Wartsila WDA329800 e specifica tecnica materiali.
Parti in acciaio annegate:
S235JR (D.M. 17-01-2018), Gr. 36 (ASTM A36-05) o analoga resistenza. Superfici esposte da pitturare, mano di primer post-produzione + vernice epossidica post-installazione in accordo a istruzioni di verniciatura e ritocchi di Wartsila WDA254159 e specifica tecnica materiali.
Tolerances and specifications for concrete works:
See Wartsila quality and installation instructions, concrete structures (WDA329800)
Embedded steel parts:
S235JR (EN 10025), Grade 36 (ASTM A36-05 or equal quality. Exposed surfaces to be painted, post fabrication primer + epoxy paint after installation according to painting instruction, touch up & repair (WDA254159)

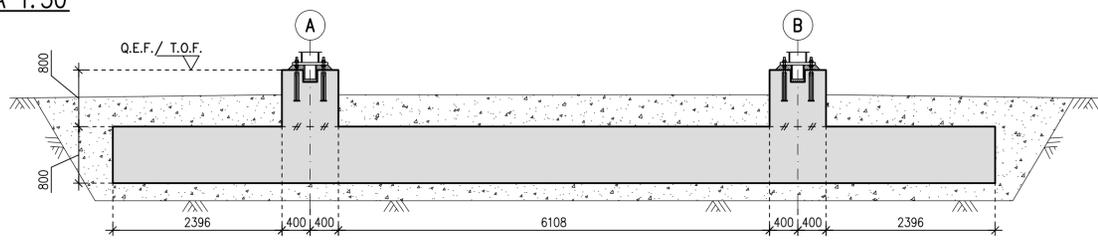
Vita Nominale Di Progetto / Design Working Life	50 Anni / years	D.M. 17 - 01 - 2018
Classe Di Esposizione / Exposure Class	XA1 Slab / Platea / XC4 Piedistalli / Pedestal	UNI EN 206-1/UNI 11104
Classe Di Resistenza / Concrete Class	C28/35 Slab / Platea / C32/40 Piedistalli / Pedestal	D.M. 17 - 01 - 2018
Aggregati / Aggregate	D max 32 mm	
Copriferro / Concrete Cover	c nom 35 mm / 50 mm	EN 1992-1-1 / Controterra / Against prepared ground
Armature / Reinforcement	(=Ø) B450 C	D.M. 17 - 01 - 2018
Smussatura spigoli / Chamfer	20x20 mm	Tutti gli spigoli a vista / On all visible edges
Finitura Superficiale / Surface Finish	Liscia / Plain	UNI EN 13670
Maturazione / Curing Class	4 (70%)	UNI EN 13670

NOTA! PER POSIZIONE E QUOTE FONDAZIONE VEDERE TAVOLA PIANTE GENERALE FONDAZIONE DBAE723406 /
NOTE! LOCATION AND TOP OF FOUNDATION LEVEL T.O.F. ACCORDING TO FOUNDATION LOCATION DRG.

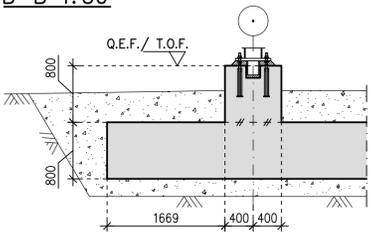


TAVOLE DI RIFERIMENTO / REFERENCE DRAWINGS	TAVOLA N° / DRG NO	NOME DELLA TAVOLA / NAME OF THE DRAWING
DBAE723406		PIANO DI POSA DELLA FONDAZIONE / FOUNDATION LOCATION PLAN
DBAE723460		FOUNDATION BOLT PLAN / STACK STRUCTURE
DBAE723427		REINFORCEMENT DRAWING / STACK FOUNDATION

A-A 1:50



B-B 1:50





COMUNE DI MELFI

PROVINCIA DI POTENZA



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 Via Barberini, 86 00187 Roma L'Amministratore Unico Ing. Michele Molinari

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 Citec Oy Ab
 Simukkatie 2
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 65101 Vaasa, Finland

UFFICIO
CED INGEGNERIA

GENERAL CONTRACTOR
WÄRTSILÄ
 © Wartsila Finland Oy Energy Solutions

Product: **W18V50SG** ASLY DRG: **ACA**

Project no: **P/17052**

Dimensional drawing
 STACK FOUNDATION
 PLAN AND SECTIONS
 METAENERGIA MELFI

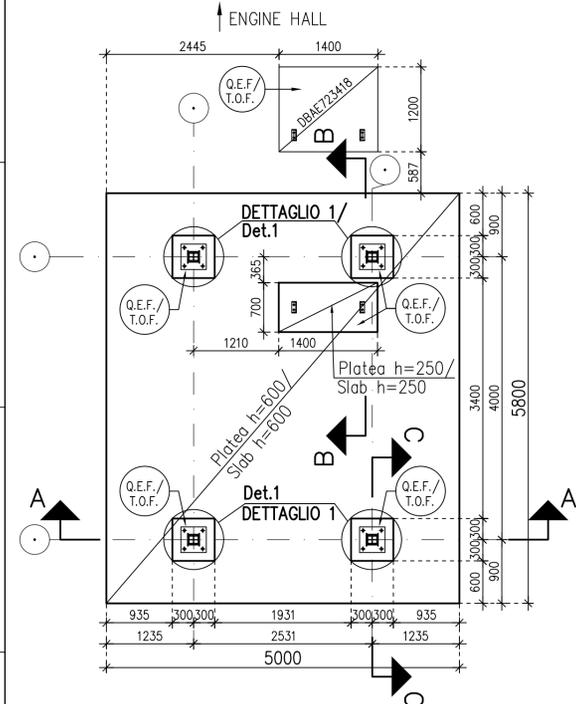
MADE: 09-Jan-2018 Steven Nygård Units: mm/kg
 a 30-Mar-2018 mtrx07 rsax14 Generally revised.
 APPD: 18-Jan-2018 Ramzi Sahlaoui Page No: 1:50 / 1:10 Scale: A1 Doc. ID: DBAE723428 XX Rev.

REV.	DATE	MADE	APPRD.	MEMO NO.	EXPLANATION
XX		mpax08			Revised as mark.
a	30-Mar-2018	mtrx07	rsax14		Generally revised.
APPD	18-Jan-2018	Ramzi	Sahlaoui		

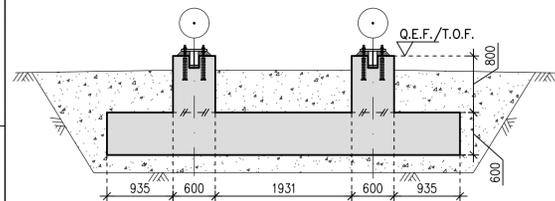
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Confidential

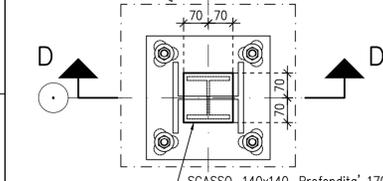
PIANTA/PLAN 1:50



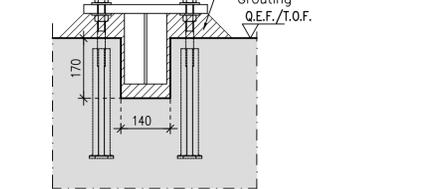
A-A 1:50



Det.1 1:10



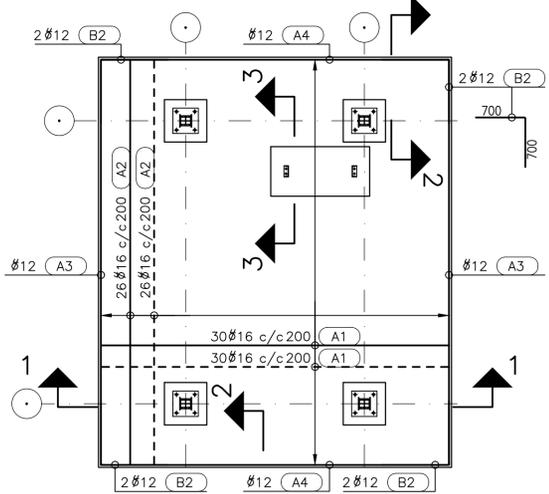
D-D 1:10



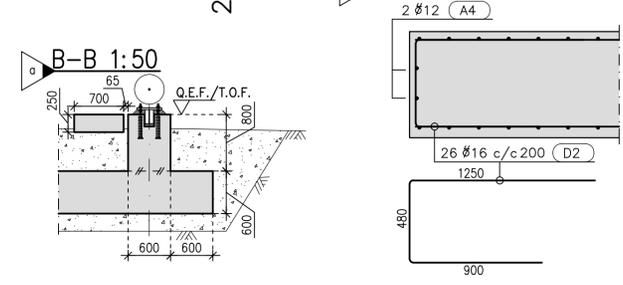
NOTA! PER TIRAFONDI E CHIAVI DI TAGLIO VEDERE TAVOLA PIANTE TIRAFONDI DBAE787683 / NOTE! REFERENCE DRAWING DBAE787683 FOR ANCHOR BOLT DETAILS, LOCATION AND SHEAR KEY DETAILS.

INDICAZIONI E QUOTE IN ELEVAZIONE / ELEVATION QUOTE NOTE:
 Q.E.F.= Quota Estradosso Fondazioni (Top Of Foundation)
 Q.P.F.=Quota Piano Finito (Finish Floor Level)
 Q.E.T.=Quota Estradosso Trave (Top of Beam)
 Q.E.C.=Quota Estradosso Colonna (Top of column)
 Q.I.T.= Quota Intradosso Trave (Bottom of beam)
 Q.I.C.=Quota Intradosso Colonna (Bottom of column)

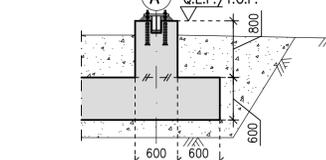
PIANTA / PLAN 1:50
 Armature/Reinforcement



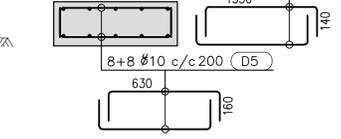
2-2 1:20



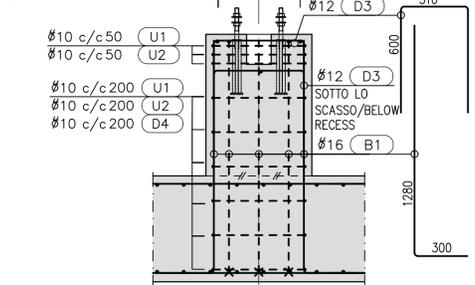
C-C 1:50



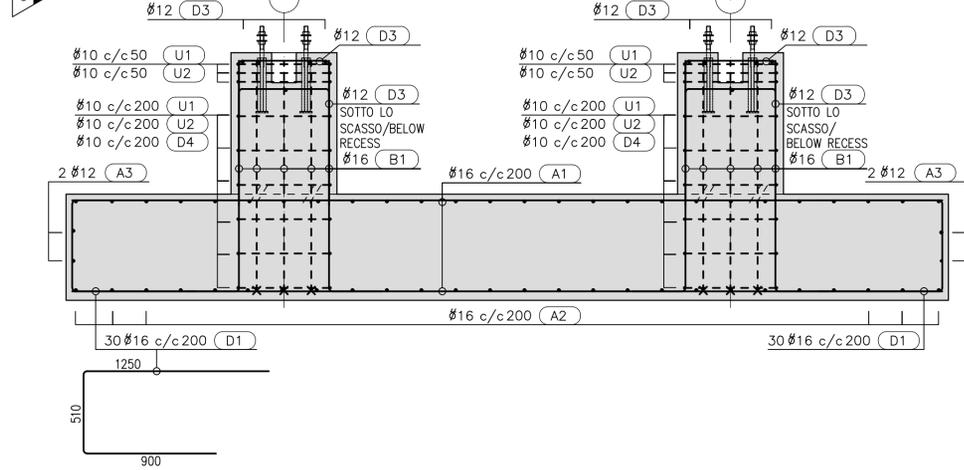
3-3 1:20



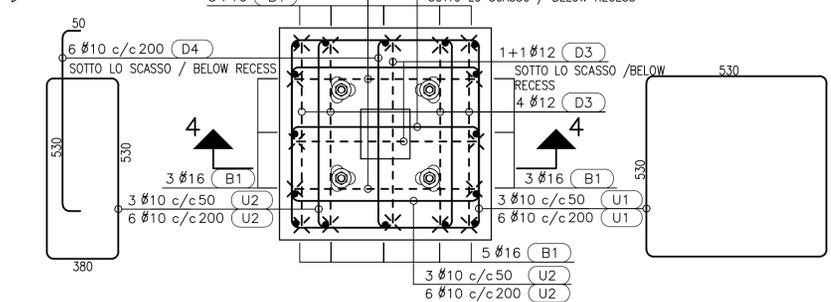
4-4 1:20



1-1 1:20



Det.1 1:10



MATERIAL / MATERIALI	AMOUNT
CALCESTRUZZO / Concrete (C28/35)	17.7 m3
CALCESTRUZZO / Concrete (C32/40)	1.2 m2
CASSERI/Formwork	21.7 m2

DRG NO	NAME OF THE DRAWING
DBAE723406	FOUNDATION LOCATION PLAN
DBAE787683	FOUNDATION BOLT PLAN
DBAE723409	ENGINE HALL_STAIR TOWER
DBAE723409	DIMENSIONAL DRAWING ENGINE HALL
DBAE723413	DIMENSIONAL DRAWING FILTER PLATFORM

Pos / Shape No	d	Pezzi / Pcs	Tip / Grade	Lunghezza Totale / Total Length	Peso / Weight	Dimensioni Piegature / Bending Dimensions	Raggio minimo / Minimum Bend rad	Lunghezza sovrapposizione / Lap Length
A1	16	60	B450C	4900	7.8	490 4	4900	
A2	16	52	B450C	5730	9.1	470 8	5730	
A3	12	4	B450C	5730	5.1	20 4	5730	
A4	12	4	B450C	4930	4.4	17 5	4930	
B1	16	64	B450C	1950	2.4	196 7	300	1200
B2	12	8	B450C	1380	1.2	9 8	700	700
D1	16	60	B450C	2590	4.1	248 5	1290	900
D2	16	52	B450C	2590	4.0	210 3	1290	480
D3	12	32	B450C	1980	1.5	47 2	600	510
D4	10	48	B450C	1590	0.4	12 5	50	530
D5	10	16	B450C	910	0.8	9 0	160	630
D6	10	10	B450C	1570	1.0	9 7	140	1330
U1	10	36	B450C	2300	1.4	51 1	150	530
U2	10	72	B450C	2000	1.2	88 8	150	380
TOTAL						1822		

SI ASSUME CHE LA FONDAZIONE SIA GETTATA SU MAGRONE / The foundation is assumed to be cast directly against lean concrete.
 LE LUNGHEZZE INCLUDONO LE SOVRAPPOSIZIONI BASATE SU LUNGHEZZE MASSIME DELLE ARMATURE DI 12m.
 NOTE! MASSIMO 50% DELLE ARMATURE PUO' SOVRAPPORSI NELLA STESSA POSIZIONE
 LENGTHS INCLUDE LAPPING BASED ON 12 m BAR LENGTH.
 NOTE! 50% OR LESS OF REINFORCEMENT IS ALLOWED TO BE LAPPED IN THE SAME SECTION.
 LL = LAP LENGTH/LUNGHEZZA SOVRAPPOSIZIONE

Vita Nominale Di Progetto / Design Working Life	50 Anni / years	D.M. 17 - 01 - 2018
Classe Di Esposizione / Exposure Class	XA1 Slab / Platea XC4 Piedistalli / Pedestal	UNI EN 206-1/UNI 11104
Classe Di Resistenza / Concrete Class	C28/35 Slab / Platea C32/40 Piedistalli / Pedestal	D.M. 17 - 01 - 2018
Aggregati / Aggregate	D max 32 mm	
Copriferro / Concrete Cover	c nom 35 mm 50 mm	EN 1992-1-1 Controterra / Against prepared ground
Armature / Reinforcement	(=0) B450 C	D.M. 17 - 01 - 2018
Smussatura spigoli / Chamfer	20x20 mm	Tutti gli spigoli a vista / On all visible edges
Finitura Superficiale / Surface Finish	Liscia / Plain	UNI EN 13670
Maturazione / Curing Class	4 (70%)	UNI EN 13670

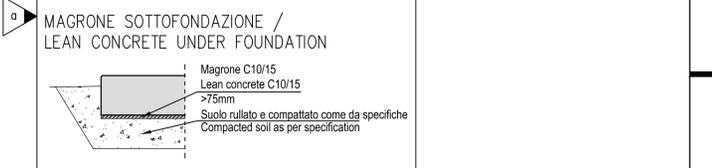
Tolleranze e specifiche per opere in calcestruzzo: Vedere manuale di qualità e installazione per strutture in calcestruzzo di Wartsila WDA329800 e specifica tecnica materiali.
 Parti in acciaio annegate: S235JR (D.M. 17-01-2018), Gr. 36 (ASTM A36-05) o analoga resistenza. Superfici esposte da pitturare, mano di primer post-produzione + vernice epossidica post-installazione in accordo a istruzioni di verniciatura e ritocchi di Wartsila WDA254159 e specifica tecnica materiali.

Tolerances and specifications for concrete works: See Wartsila quality and installation instructions, concrete structures (WDA329800)

Embedded steel parts: S235JR (EN 10025), Grade 36 (ASTM A36-05 or equal quality). Exposed surfaces to be painted, post fabrication primer + epoxy paint after installation according to painting instruction, touch up & repair (WDA254159)

Armature superiori / Top Reinforcement
 Armature inferiori / Bottom Reinforcement

NOTA! PER POSIZIONE E QUOTE FONDAZIONE VEDERE TAVOLA PIANTE GENERALE FONDAZIONE DBAE723406 / NOTE! LOCATION AND TOP OF FOUNDATION LEVEL T.O.F. ACCORDING TO FOUNDATION LOCATION DRG.



COMUNE DI MELFI

PROVINCIA DI POTENZA

COMMITTENTE

META ENERGIA produzione S.r.l.

Via Barberini, 86
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L'Amministratore Unico
Ing. Michele Molinari

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65101 Vaasa, Finland

UFFICIO

CED INGEGNERIA

GENERAL CONTRACTOR

WARTSILA

Product: W18V50SG
 MADE: 21-Feb-2018 Muzammil Panchi
 CHKD: 30-Mar-2018 Moinddin Trunkwale
 APPD: 30-Mar-2018 Ramzi Sahlaoui

© Wartsila Finland Oy Energy Solutions

Dimensional and reinforcement drawing
 STAIR TOWER FOUNDATION
 PLAN AND SECTIONS
 Metaenergia Melfi
 4xW18V50SG
 Proj no: P/17052

Scale: 1:50
1:10

Size: A1

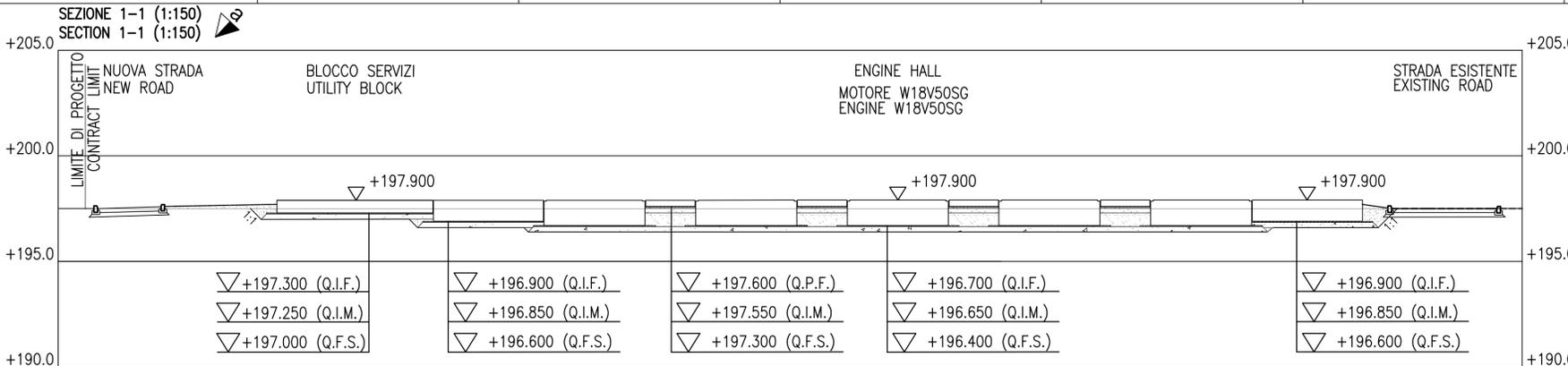
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XX

Revised as mark.

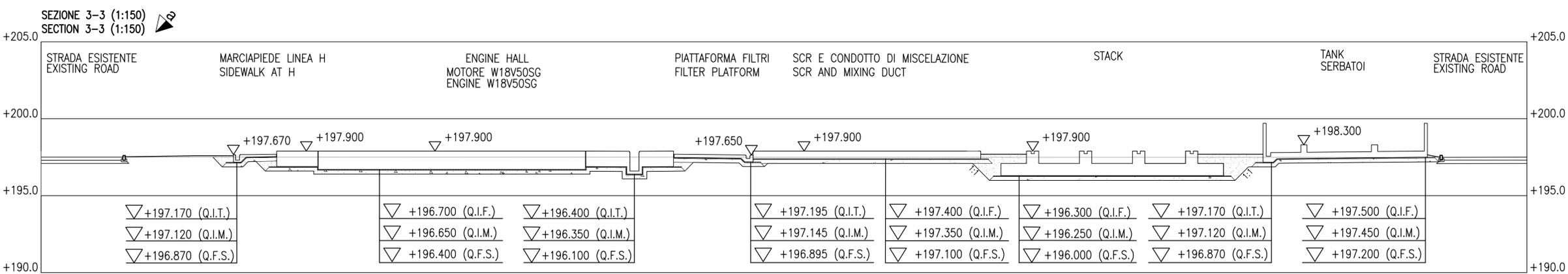
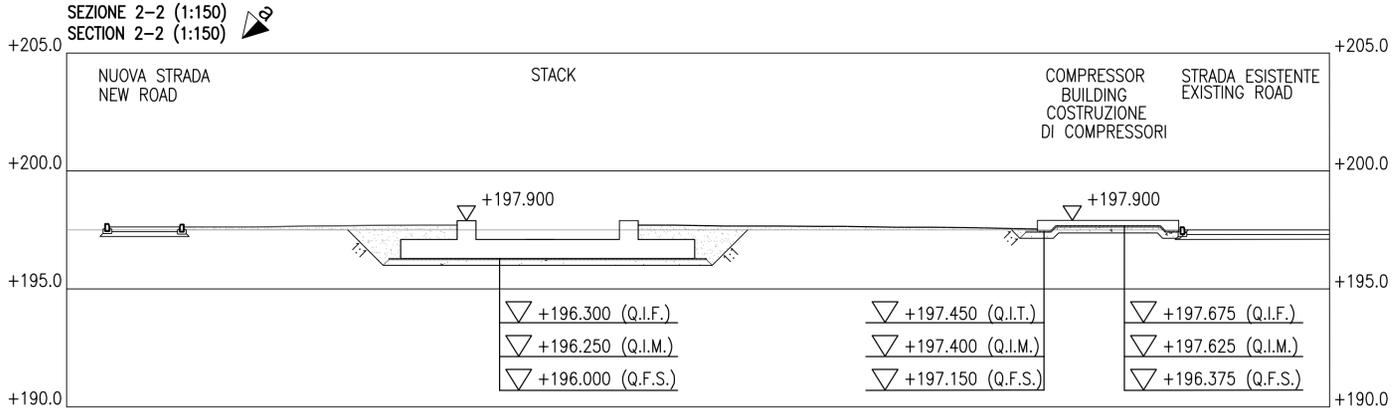
APPD: 30-Mar-2018 Ramzi Sahlaoui

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QUOTE NOTE
LEVEL NOTES

- Q.E.F. = QUOTA ESTRADOSSO FONDAZIONI / TOP OF FOUNDATION
- Q.I.F. = QUOTA INTRADOSSO FONDAZIONI / BOTTOM OF FOUNDATION
- Q.I.M. = QUOTA INTRADOSSO MAGRONE / BOTTOM OF LEAN CONCRETE
- Q.P.F. = QUOTA PIANO FINITO / FINISH FLOOR LEVEL
- Q.F.S. = QUOTA FONDO SCAVO / BOTTOM OF EXCAVATION
- Q.I.T. = QUOTA INTRADOSSO TRAVE / BOTTOM OF BEAM



LEGENDA
LEGEND

- LIVELLO FINITO FINAL LEVEL
- QUOTA PIANO CAMPAGNA NATURAL GROUND LEVEL
- PENDANZA SCAVO SLOPE GRADE, EXCAVATION LEVEL
- MAGRONE (50 mm) LEAN CONCRETE FILL (50 mm)
- STRATO DI GHIAIA GRAVEL PAD
- REINTERRO GENERAL FILLING
- STRUTTURA LIVELLI IN ATTESA (VEDI NOTA 5) STRUCTURE LEVELS ON HOLD (SEE NOTE 5)
- SIMBOLO REVISIONE REVISION MARK

NOTE
NOTES

- POWERHOUSE Q.E.F. 0.000 = +364.500 m QUOTE ASSOLUTE
POWERHOUSE TOF 0.000 = +364.500 m ABSOLUTE ELEVATION
- PER RIFERIMENTO DOCUMENTI VEDI TABELLA 1.
FOR DOCUMENT REFERENCES REFER TO TABLE 1.
- LE DIMENSIONE DELLE FONDAZIONI E GLI SPESSORI SONO INDICATIVI. RIFERIRSI AI DISEGNI DI PROGETTO DELLE FONDAZIONI PER LE DIMENSIONI CORRETTE.
FOUNDATION DIMENSIONS AND THICKNESSES ARE INDICATIVE ONLY. REFER TO FOUNDATION LOCATION PLAN AND FOUNDATION DIMENSIONAL DRAWINGS.
- RIFERIRSI ALLA TAVOLA FONDAZIONI PER LE SPECIFICHE RELATIVE AL MAGRONE.
REFER TO FOUNDATION DIMENSIONAL DRAWINGS FOR LEAN CONCRETE REQUIREMENTS.
- FINAL STRUCTURAL DRAWINGS PENDING FOR SOME STRUCTURES. LEVELS ARE ESTIMATED OR ON HOLD.
DISEGNI FINALI STRUTTURALI IN ATTESA DI ALCUNE STRUTTURE. LIVELLI SONO STIMATI O IN ATTESA.
- PER LE SPECIFICHE DI SCAVI E REINTERRI VEDERE LE SPECIFICHE TECNICHE DBAE723404.
FOR EXCAVATION AND FILLING REQUIREMENTS REFER TO TECHNICAL SPECIFICATIONS DBAE723404.

TABELLA 1: RIFERIMENTO DOCUMENTI
TABLE 1: DOCUMENT REFERENCES

RIFERIMENTO DOCUMENTI DOCUMENT REFERENCES	TITOLO TITLE
DBAE723401	LEVELLING AND DRAINAGE
DBAE723399	SURFACE MATERIALS
DBAE807820	EARTHWORKS SECTIONS
DBAE723404	EARTHWORKS SPECIFICATION
DBAE807839	GEOTECHNICAL FOUNDATION RECOMMENDATION
DBAE723400	EARTHWORKS PLAN
DBAE807845	BILL OF QUANTITIES

COMUNE DI MELFI
PROVINCIA DI POTENZA

COMMITTENTE
META ENERGIA produzione S.r.l.
 Via Barberini, 86 00187 Roma L'Amministratore Unico Ing. Michele Molinari

PROGETTO

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 65101 Vaasa, Finland

UFFICIO

WÄRTSILÄ © Wärtsilä Finland Oy Energy Solutions
SITE WORKS
 Earthworks Sections

Product: **W18V50SG** © ACA ASLY DRG
 MADE: 29-Mar-2018 Ramboll / PGe
 DBAE723404
 APPD: 29-Mar-2018 Ramboll / ETI

Scale: 1:150
 Size: A1
 Doc. ID: **DBAE807820 a**

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REV.	DATE	MADE	APPD.	MEMO NO.	EXPLANATION
a	02.08.2018	JGc	MMe		Translation added. General changes