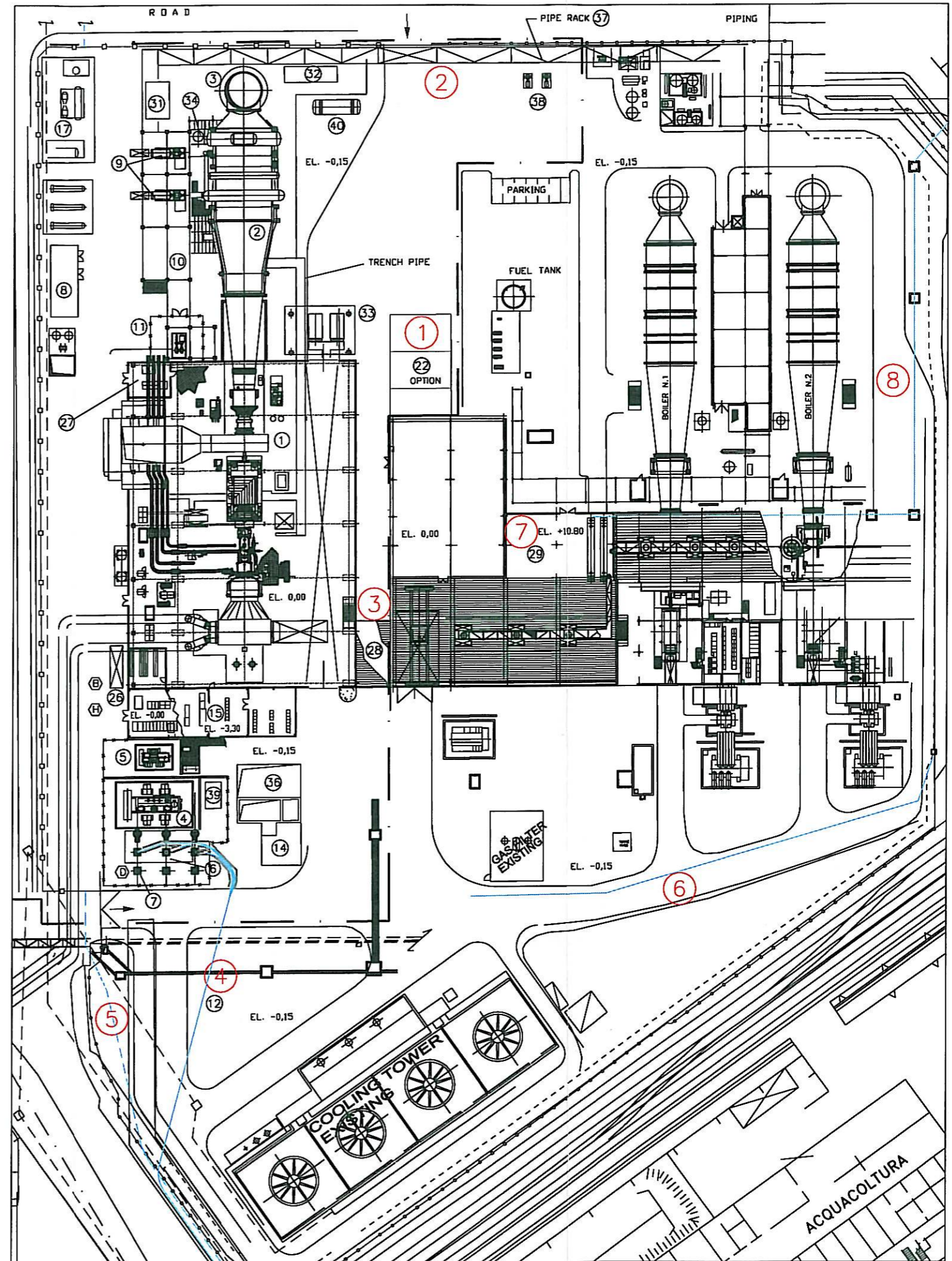
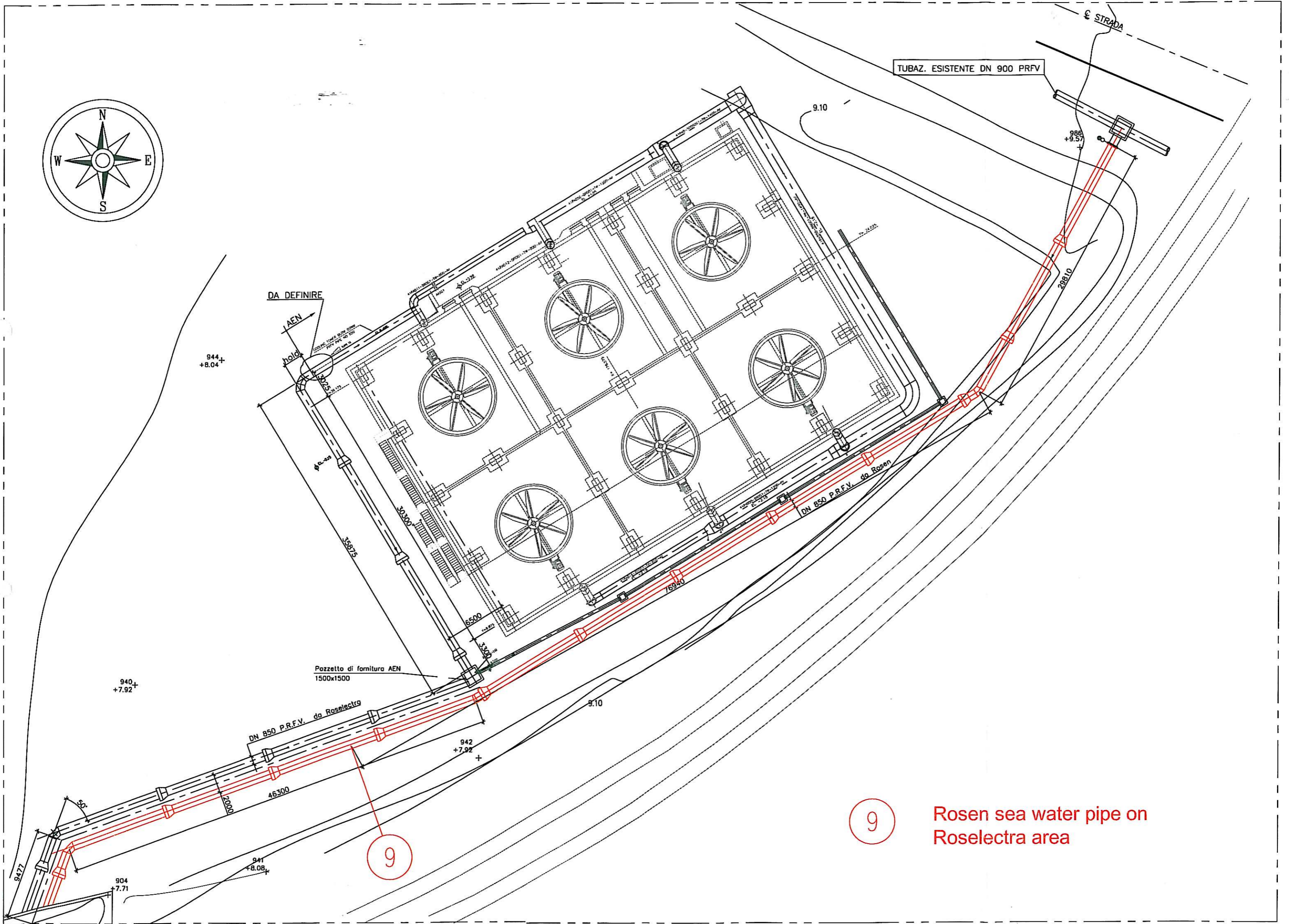


- 1: administrative building
- 2: pipe rack
- 3: passage between Rosen and Roselectra machine building
- 4: 380 kv cable underground
- 5: polifora (BT and MT) underground
- 6: fire pipe connection (approximate location)
- 7: common control room Rosen and Roselectra
- 8: control cables Roselectra





9

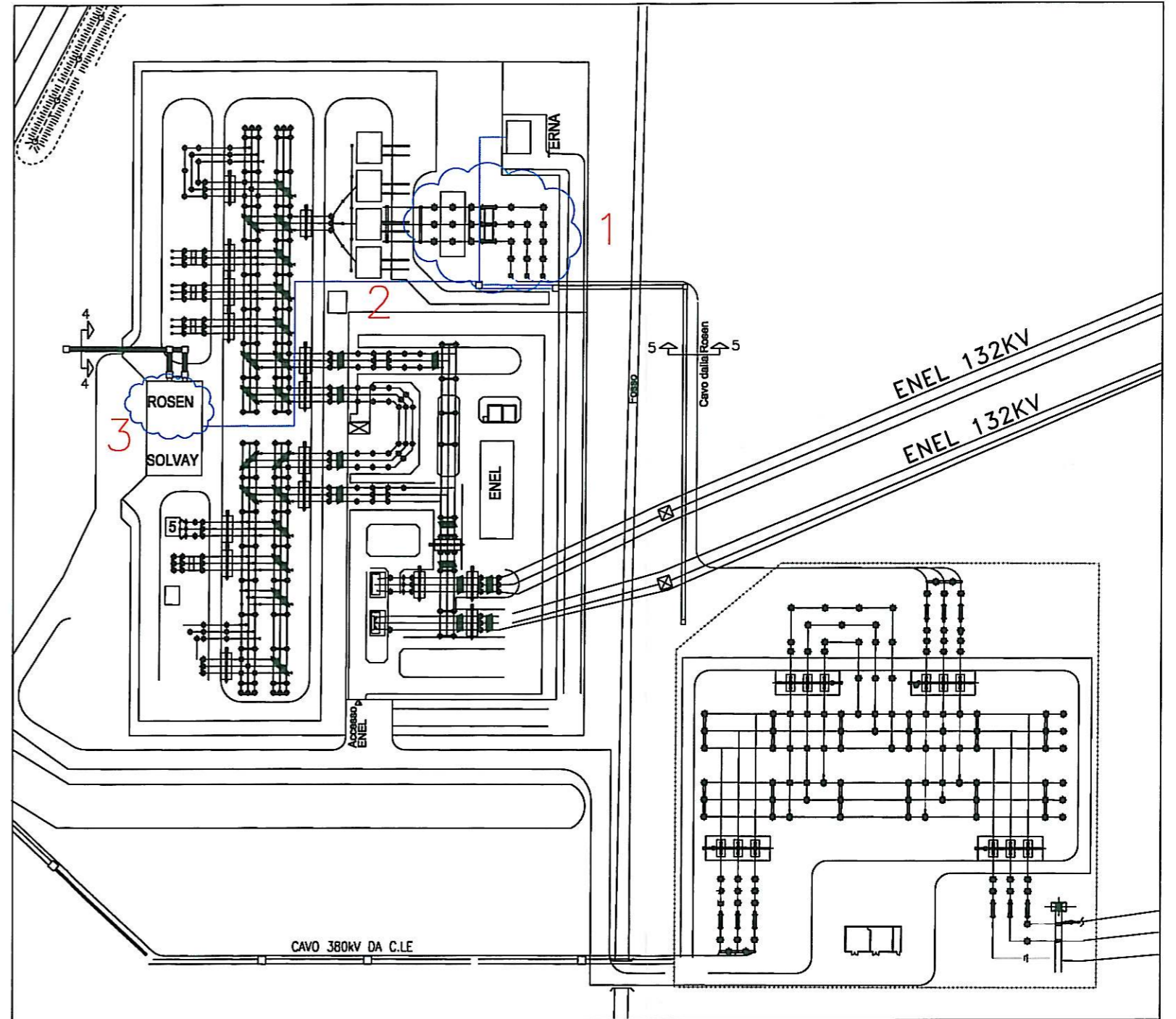
Rosen sea water pipe on
Roselectra area

10: Interventions in the power substation

A: connection transformer-terminals cable 380 kv (area belonging part to Rosen and part to Terna)

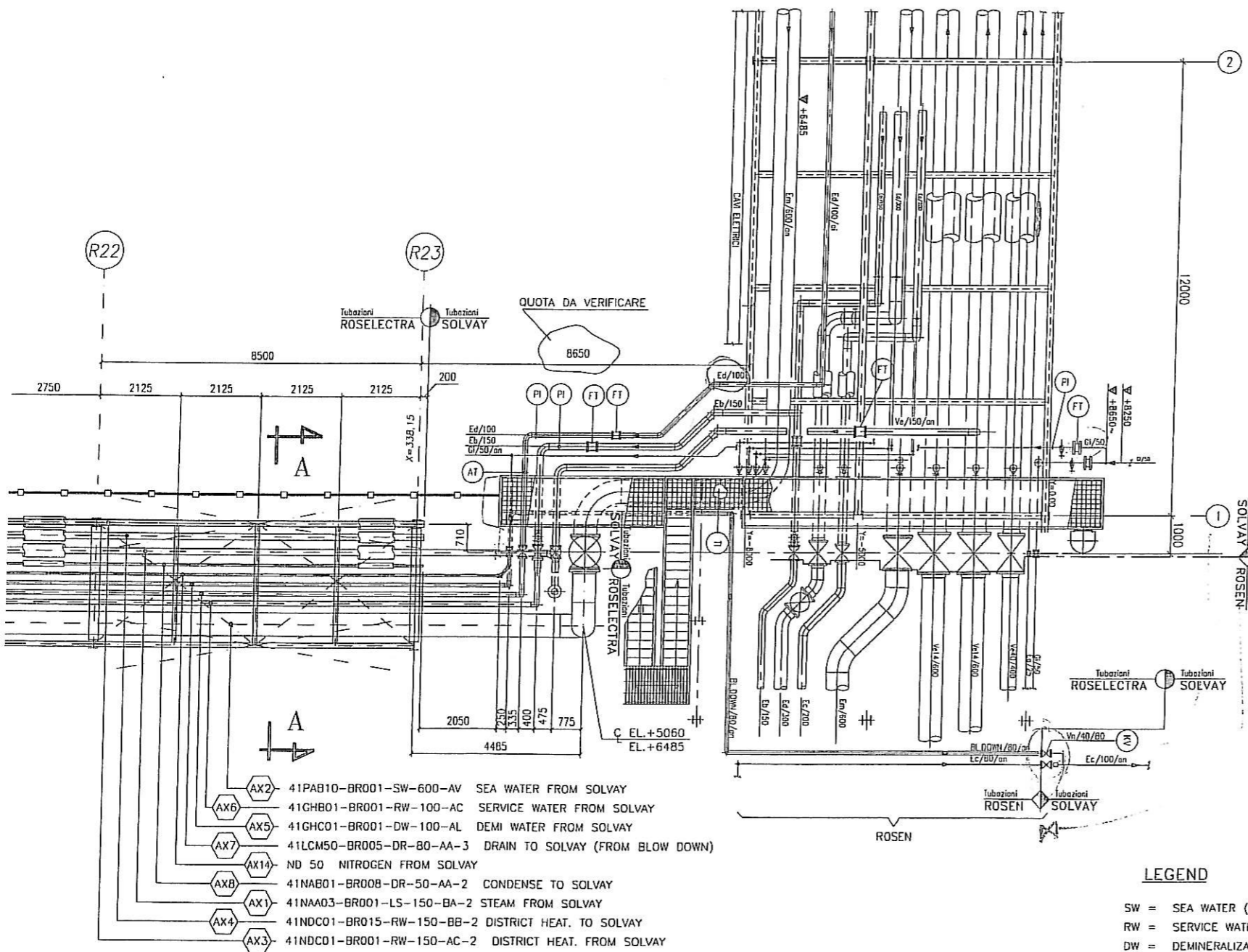
B: several control cables and power cables

C: 6 kv back-up supply + changes protections





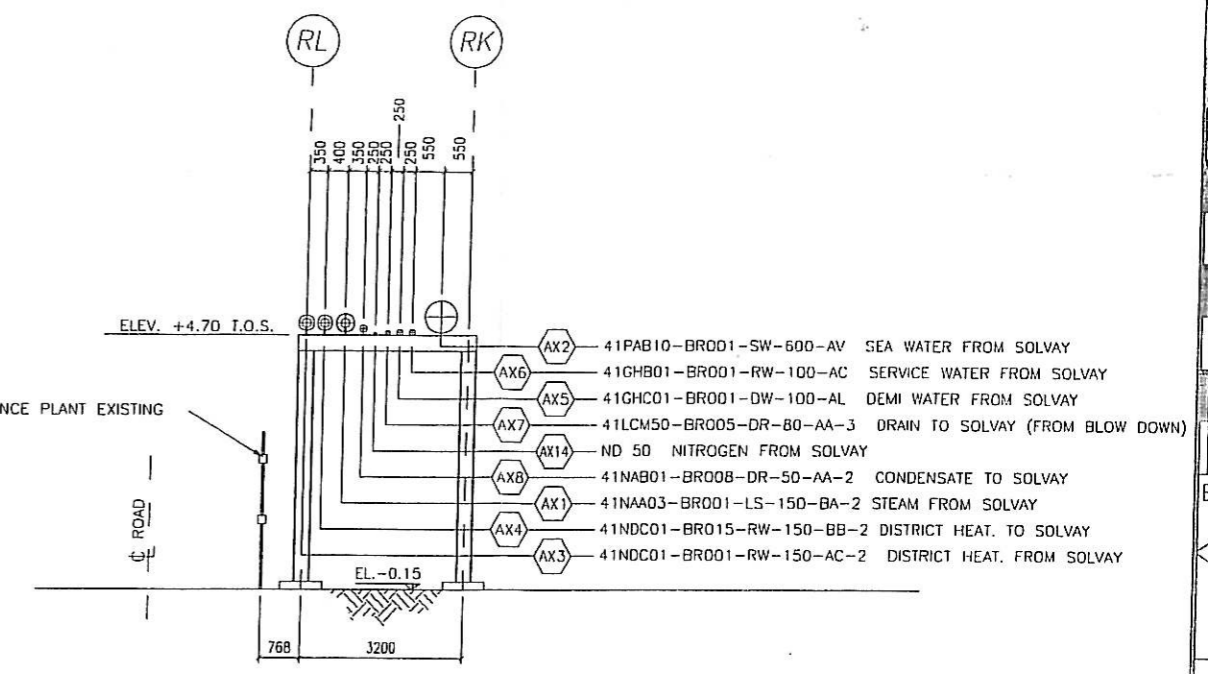
NORTH PLANT



- AX2 41PAB10-BR001-SW-600-AV SEA WATER FROM SOLVAY
- AX6 41GHB01-BR001-RW-100-AC SERVICE WATER FROM SOLVAY
- AX5 41GHC01-BR001-DW-100-AL DEMI WATER FROM SOLVAY
- AX7 41LCM50-BR005-DR-80-AA-3 DRAIN TO SOLVAY (FROM BLOW DOWN)
- AX14 ND 50 NITROGEN FROM SOLVAY
- AXB 41NAB01-BR008-DR-50-AA-2 CONDENSE TO SOLVAY
- AX1 41NAA03-BR001-LS-150-BA-2 STEAM FROM SOLVAY
- AX4 41NDC01-BR015-RW-150-BB-2 DISTRICT HEAT. TO SOLVAY
- AX3 41NDC01-BR001-RW-150-AC-2 DISTRICT HEAT. FROM SOLVAY

LEGEND

- SW = SEA WATER (Em)
- RW = SERVICE WATER (Eb)
- DW = DEMINERALIZED WATER (Ed)
- DR = DRAINS (BL)
- LS = STEAM (Ve)
- GI = NITROGEN



SECT. A-A

REFERENCE DRAWINGS

- R208017 rev02 - FLUIDI INTERFACCE CON ROSELECTRA
- 0249A1VVEP140 rev00 - AREA 4 - YARD - ABOVE AND UNDERGROUND PIPING LAYOUT

NOTES

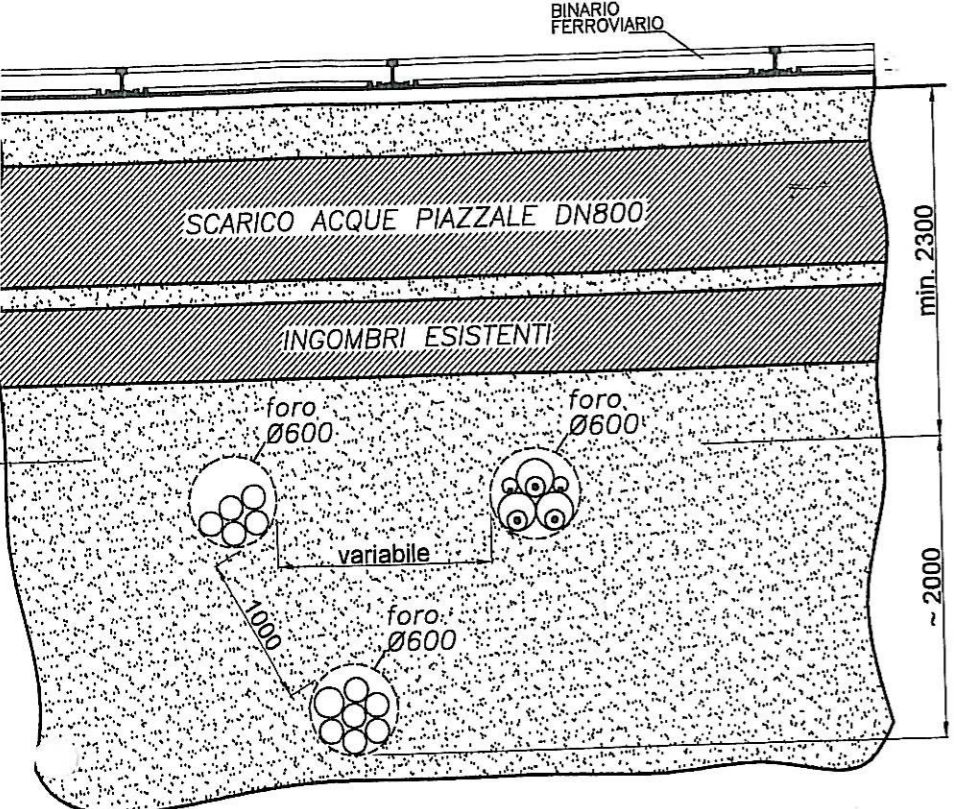
- LEVEL 0.00 REFERS TO LEVEL +8.55 mt. ABOVE SEA LEVEL
- ALL DIMENSION ARE IN mm
- ALL COORDINATES ARE IN mt
- INTERFACES FOR DEBRIS FILTER ON SEA WATER TO BE DEFINED ON SOLVAY DRAWINGS

00	P	I	FIRST ISSUE	BOBBIO	P.ZAMPPELLI	G.CUTARELLI	F.PLUZZA	S.BERTINI	15-12-04	
Rev. rev.	Sl. sl.	Sc. sc.	Descrizione kind of revision	Preparato prepared	Controllato checked	Verificato checked	Verificato checked	Verificato checked	Approvato approved	
Progetto/project				ROSELECTRA PROJECT						
				Cliente/client						
				ELECTRABEL s.a.						
Commissa job no.	Emittente issued by	Tipo doc. doc. type	Form. size	Scala scale	Derivato da derived from	Rev. rev.				
0249	PPS-INR-MEC	PCD	A2	1:100						
AnsaldoEnergia				TITOLO title						
Una Società Finmeccanica				PIPING INTERFACES						
Ansaldo Energia s.p.a. si riserva tutti i diritti su questo documento che non può essere riprodotto neppure parzialmente senza la sua autorizzazione scritta.										
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Codice struttura product breakdown structure		Identificativo/document no.				Per./rev.		Foglio sheet		Segue fg. Di of
		0249 A 1VVEP230				0		01		-

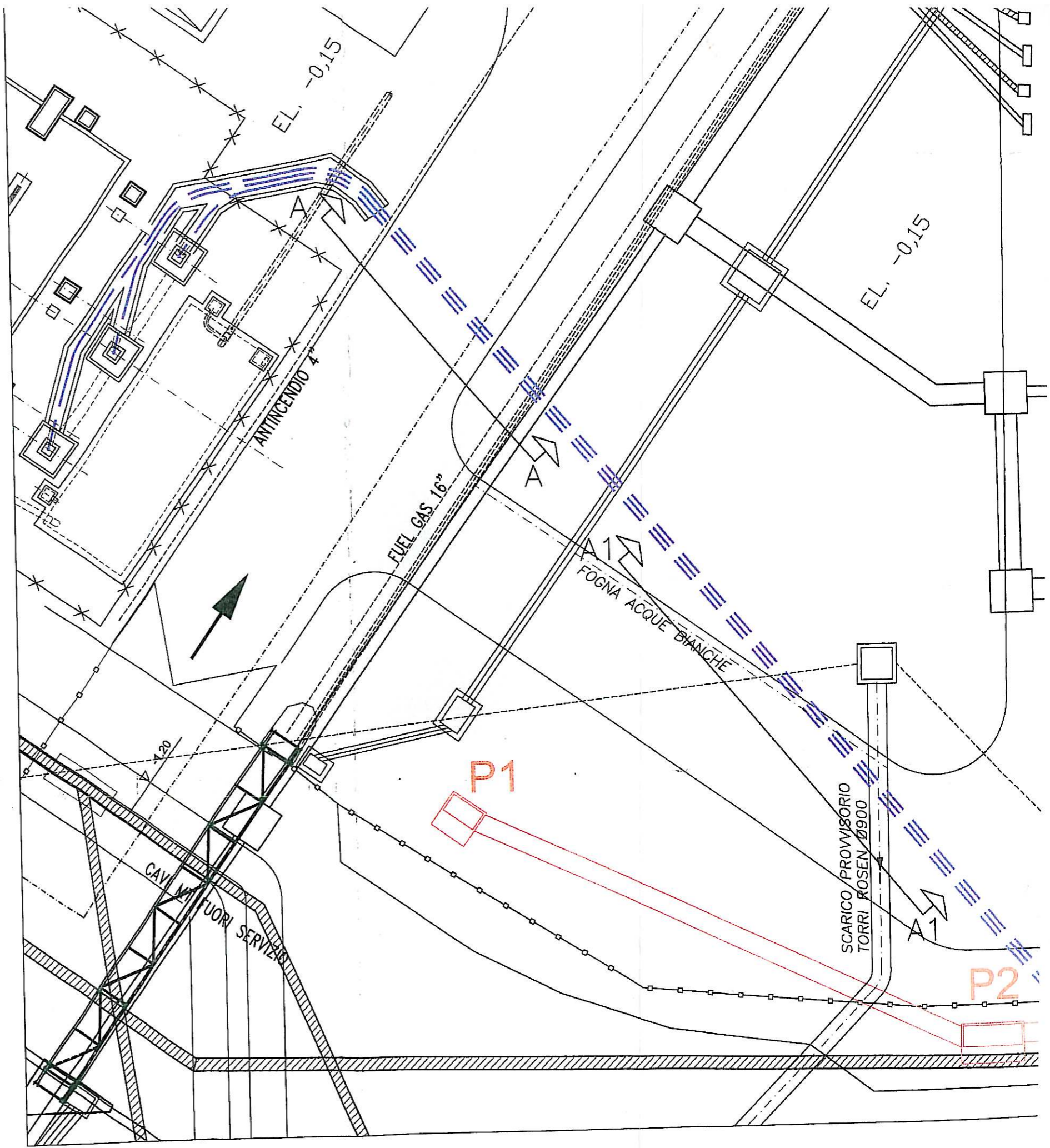
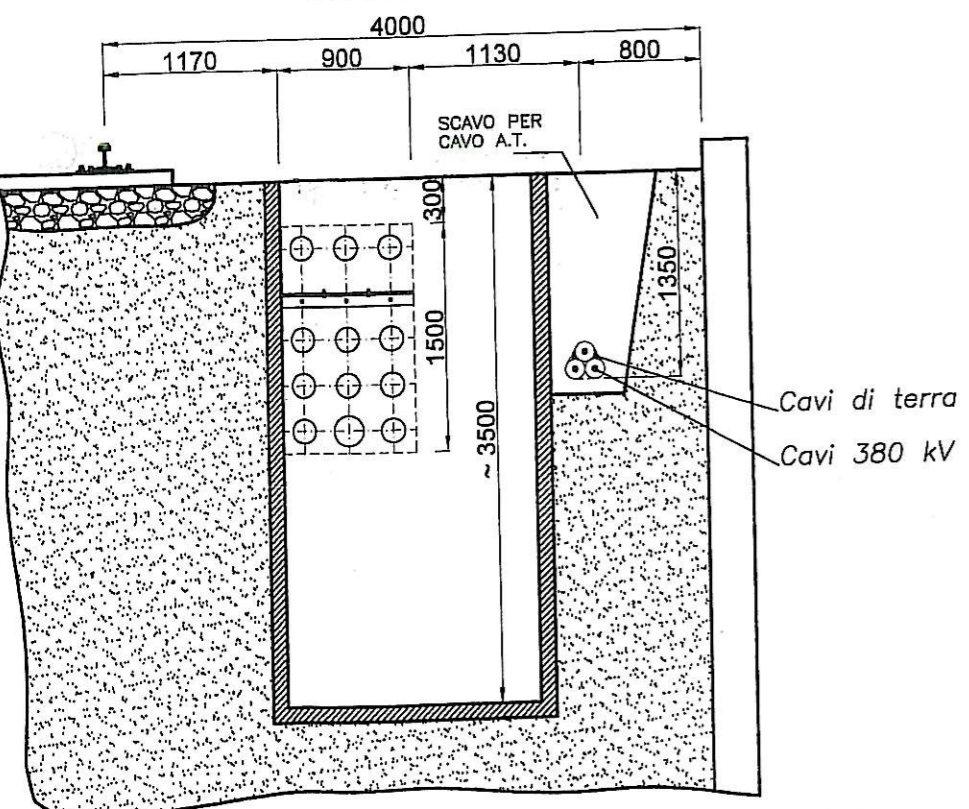
Identificazione file : 0249A1VVEP230_01_00

NO 00028/CAD-01

SEZIONE D-D
SCALA 1:50

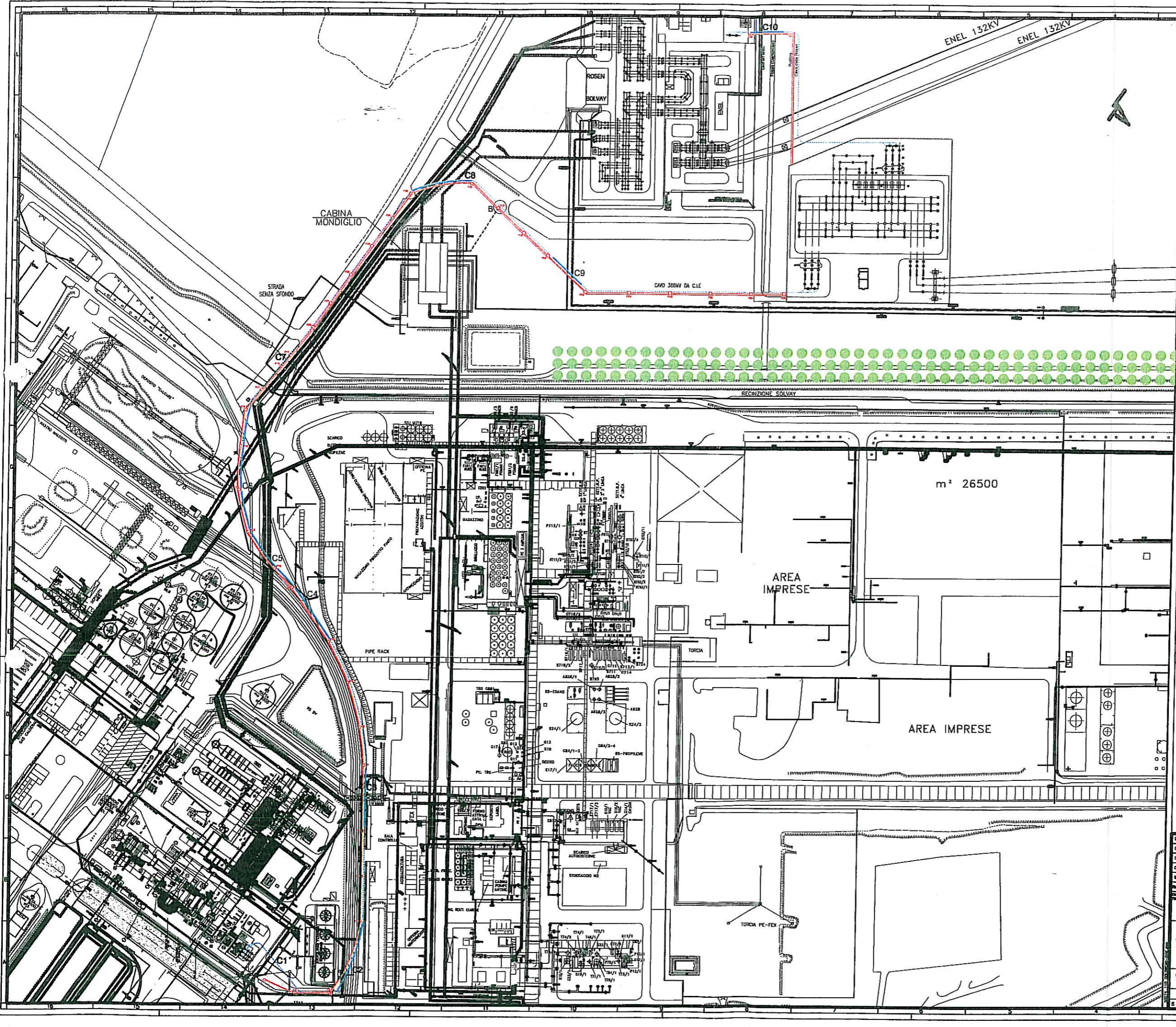


DETTAGLIO POZZETTO P4
SCALA 1:50



SEZIONE A-A
SCALA 1:50

-0.15



LEGENDA

- PERCORSO CAVI A.T.
- PERCORSO POLIFORA
- PERCORSO CAVI A.T. IN TRIVELLAZIONE ORIZZONTALE CONTROLLATA
- PERCORSO CAVI POLIFORA IN TRIVELLAZIONE ORIZZONTALE CONTROLLATA
- POZZETTO

NOTE

DISEGNI DI RIFERIMENTO

N° DOCUMENTO	REVISIONE	TITOLO
20074 110 PRO BPO BPC ELT 2002	01	SEZIONI E DETTAGLI

PLANIMETRIA GENERALE PERCORSO CAVI A.T. E POLIFORA

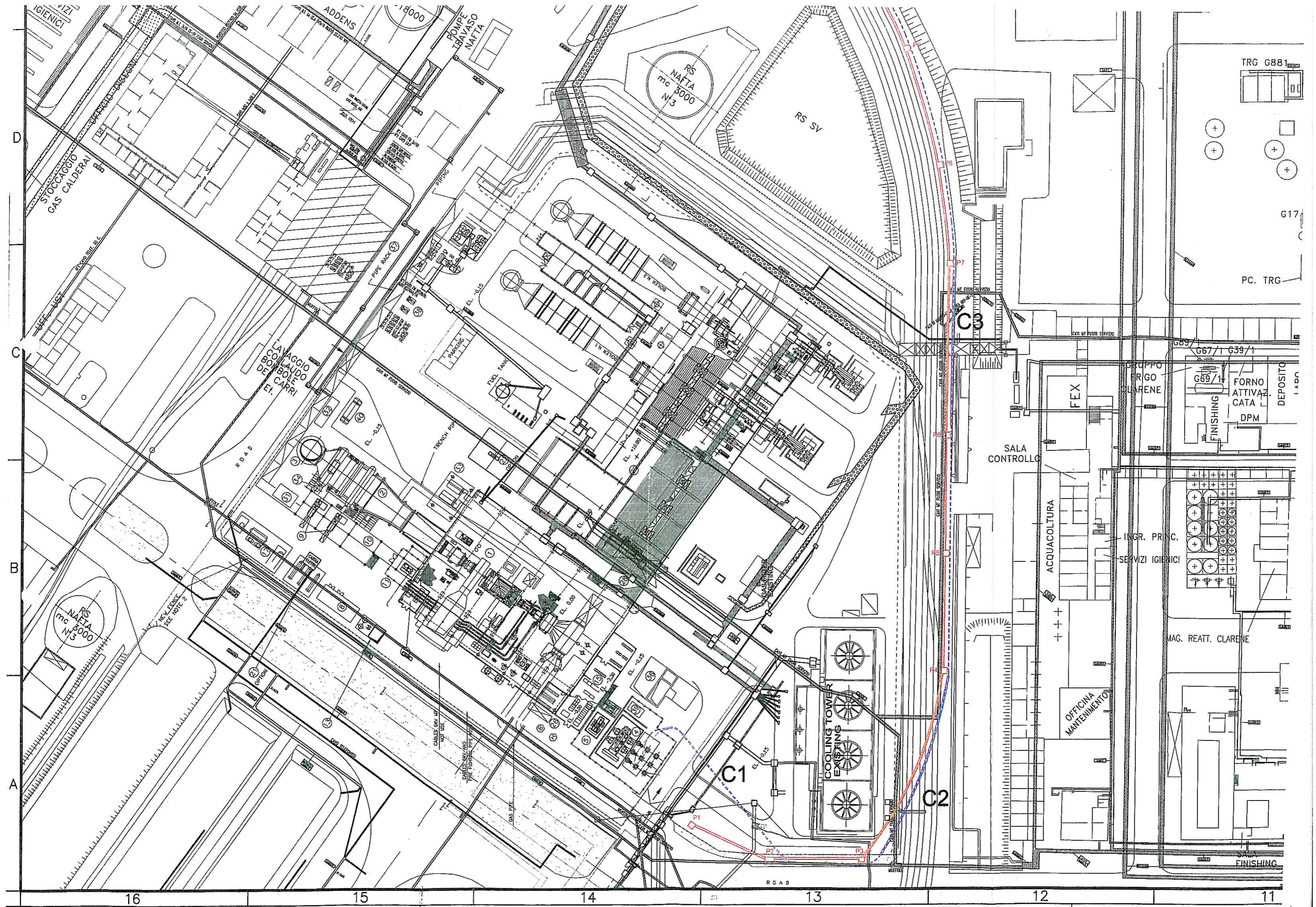
Client: **NOELECTRA S.p.A.**

Project: **EPCM COMPLEMENTARY WORKS**

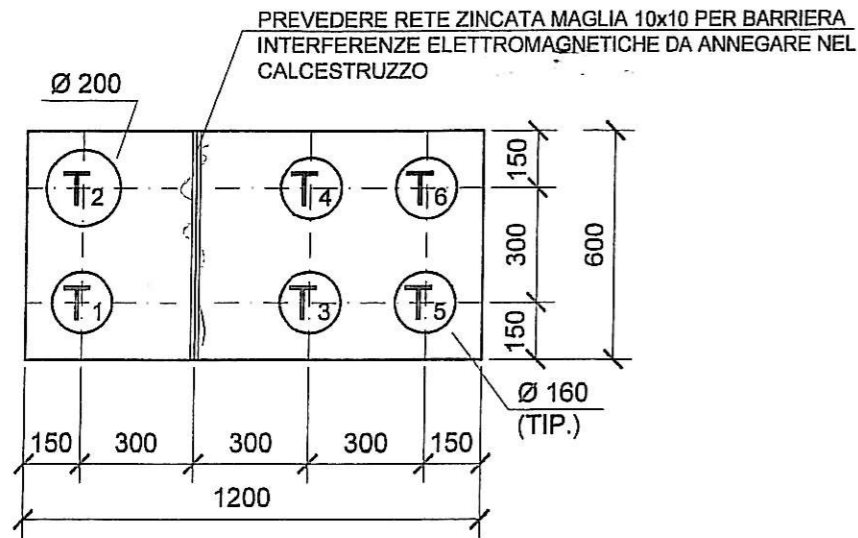
Location: **ROGINIANO SOLVAY (LJ)**

Scale	Scale	Page	of
1:1000	1:1000	01	01

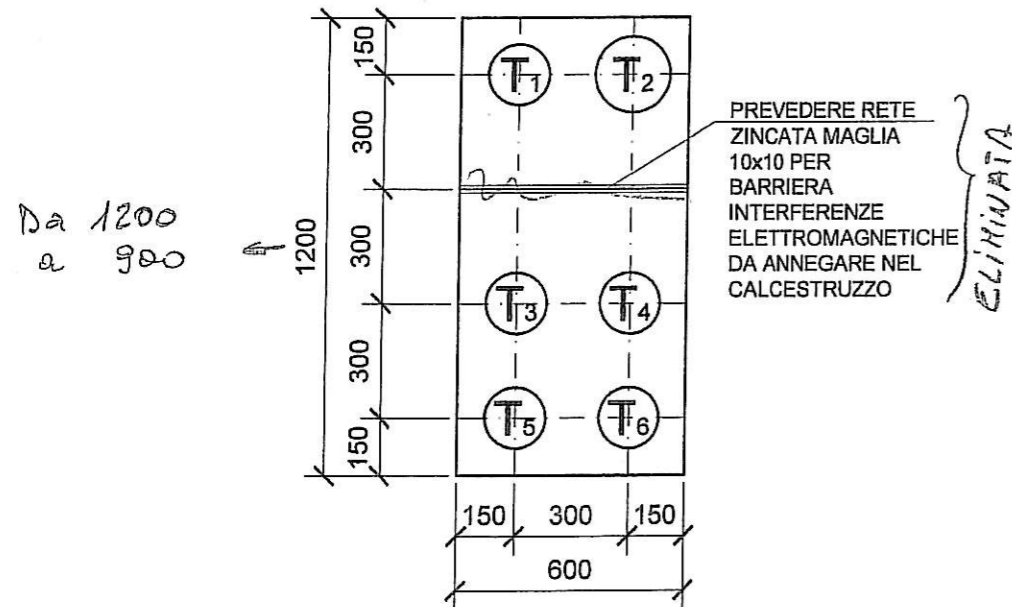
50074110PLMINIGBPCELT06001



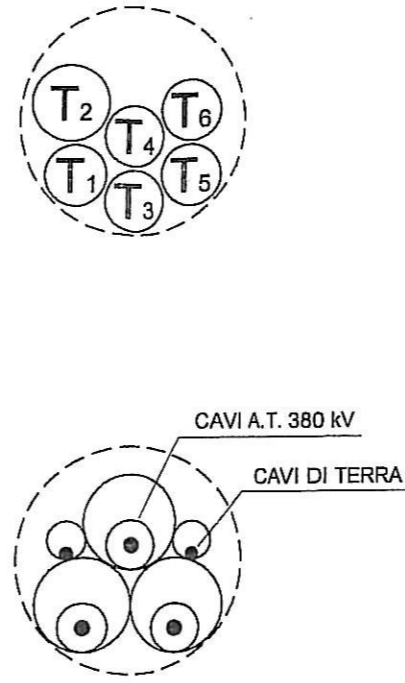
SEZIONE POLIFORA
(TIPICA)



SEZIONE POLIFORA
(PARALLELA AI BINARI)



SISTEMAZIONE CAVI
INTERNO PERFORAZIONI



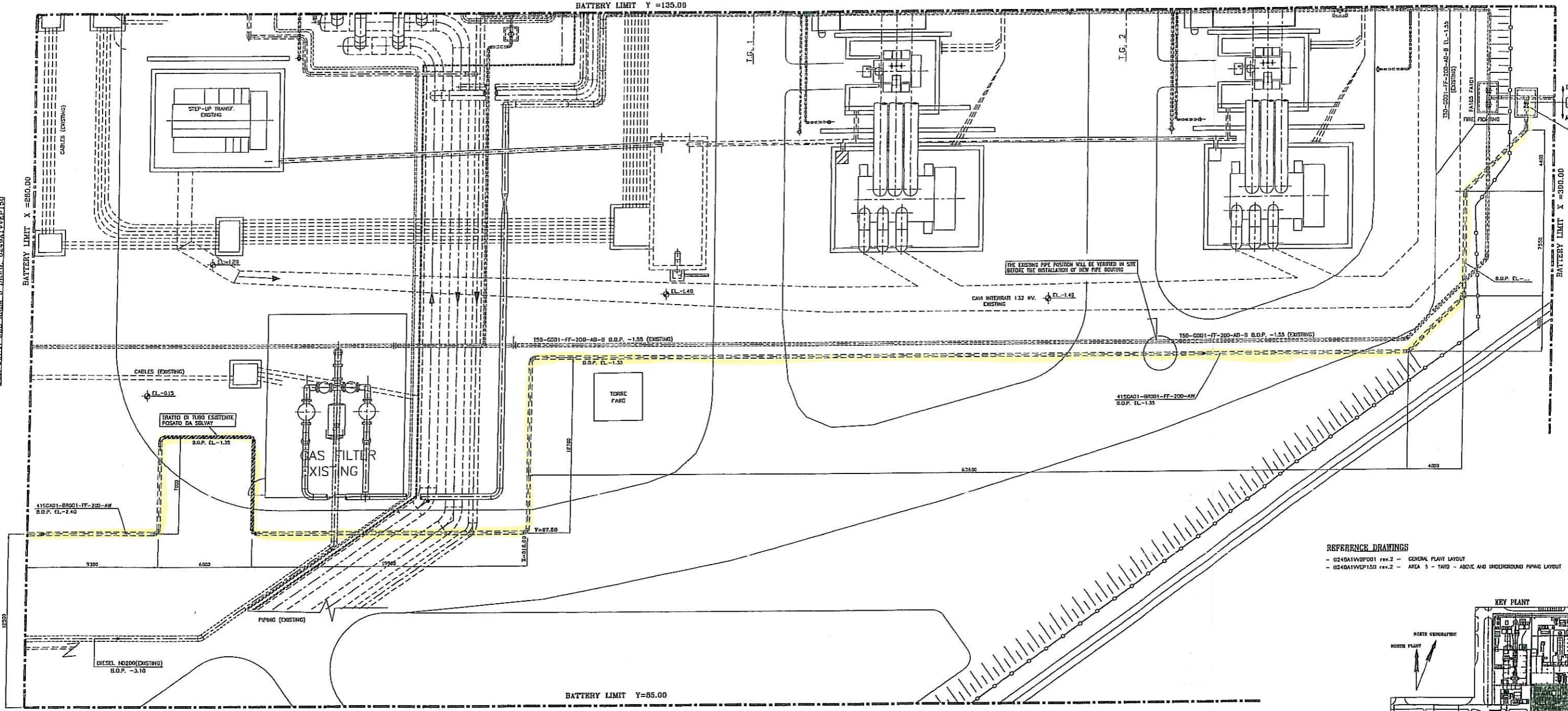
LISTA CAVI

T ₁	Cavo 6 kV
T ₂	Cavo 30 kV (Solvay)
T ₃	Segnali digitali 110 o 220V + Fonia Segnalazione Solvay
T ₄	2 Cavi fibre ottiche
T ₅	7 Cavi segnali 24 V
T ₆	Riserva

POSIZIONE CHE CORRE ACCANTO AL 380 KV DA CENTRALE ROSELECTRA A SIS ELETTRICA

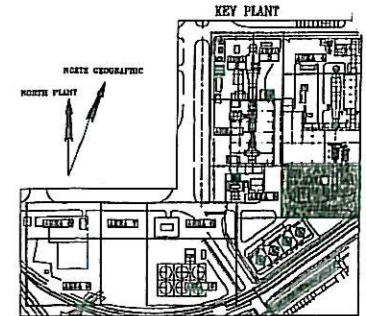
TUB ANT ROSELECTRA

NORTH PLANT



FOR CONT. SEE AREA 5 DRWG. 0249A1VVEP150

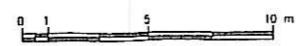
- REFERENCE DRAWINGS**
- 0249A1VVEP001 rev.2 - GENERAL PLANT LAYOUT
 - 0249A1VVEP150 rev.2 - AREA 5 - YARD - ABOVE AND UNDERGROUND PIPING LAYOUT

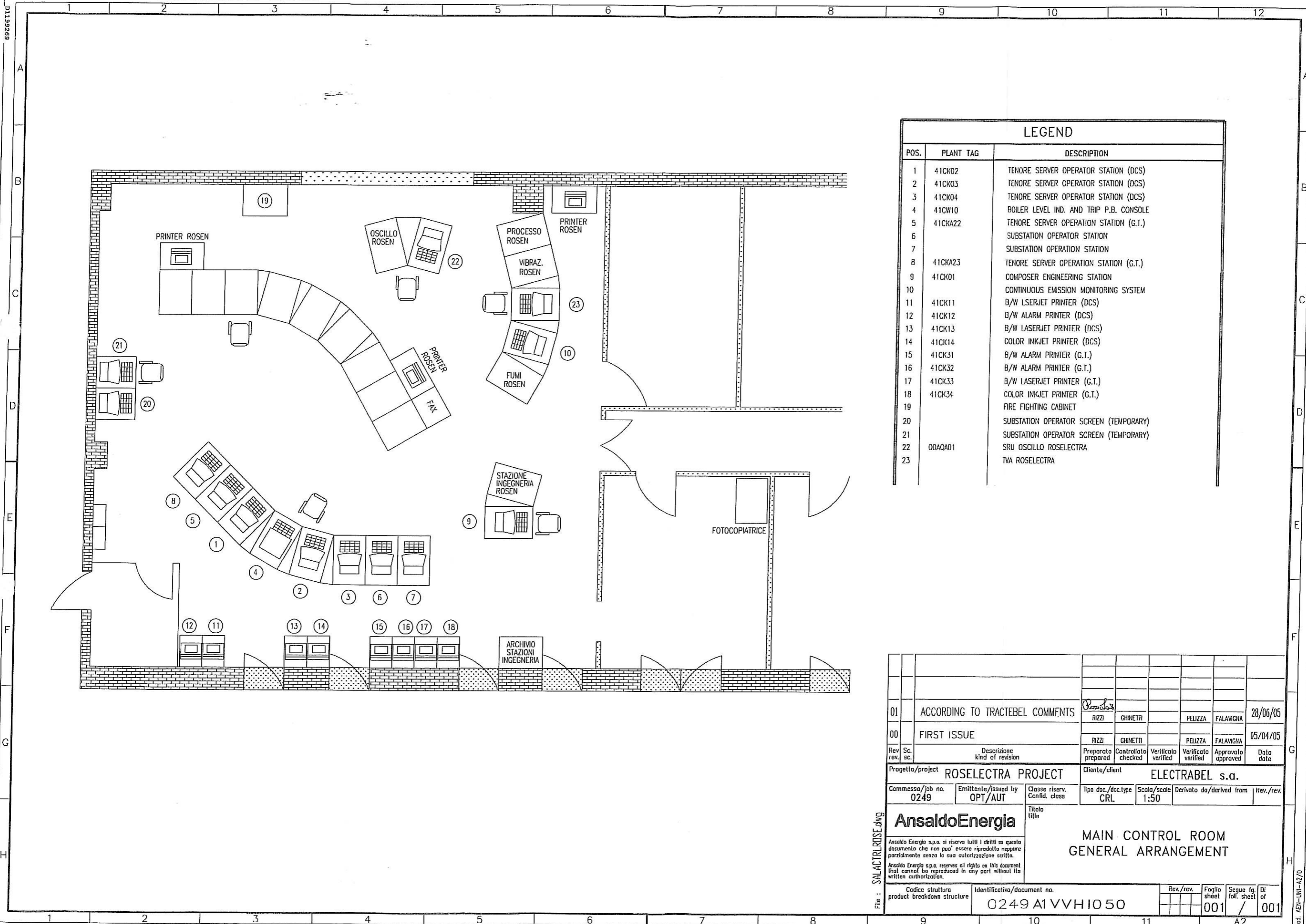


- NOTES**
- LEVEL 0.00 REFERS TO LEVEL +0.55 mt. ABOVE SEA LEVEL
 - ALL DIMENSIONS ARE IN mm
 - ALL LEVELS ARE IN mt
 - ALL COORDINATES ARE IN mt

Rev.	Desc.	Author	Check	Appr.	Date
02	A	I			12-01-05
01	A	I			07-12-04
00	P	I			09-07-04

Proprietà/progetto		ROSELECTRA PROJECT		ELECTRABEL s.p.a.	
Commessa	0249	Prodotto da	PPS-MIR-MEC	Scale	1:100
AnsaldoEnergia		Area 11 - YARD		ABOVE AND UNDERGROUND PIPING LAYOUT	
0249A1VVEP210		01		01	



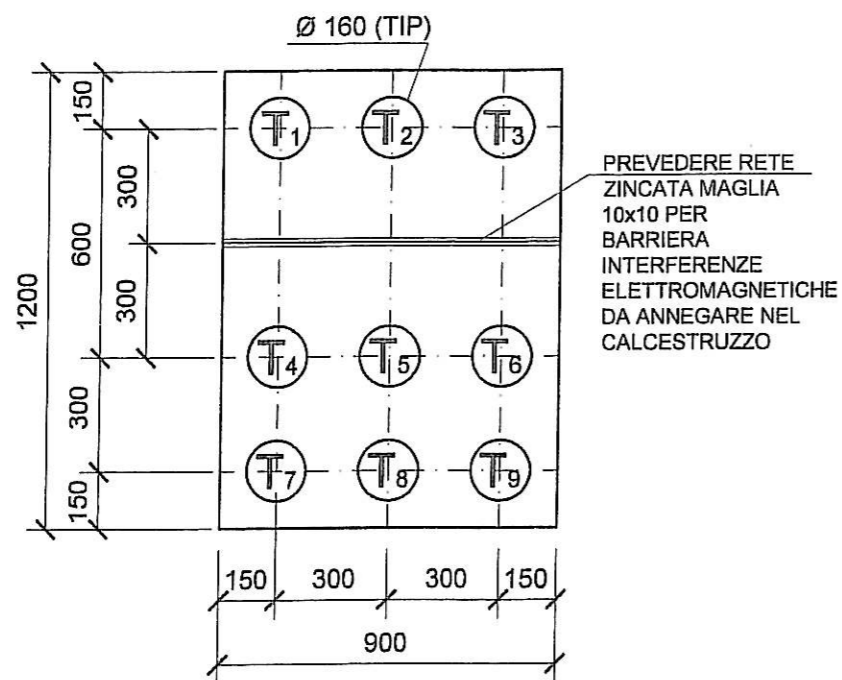


LEGEND		
POS.	PLANT TAG	DESCRIPTION
1	41CK02	TENORE SERVER OPERATOR STATION (DCS)
2	41CK03	TENORE SERVER OPERATOR STATION (DCS)
3	41CK04	TENORE SERVER OPERATOR STATION (DCS)
4	41CW10	BOILER LEVEL IND. AND TRIP P.B. CONSOLE
5	41CKA22	TENORE SERVER OPERATION STATION (G.T.)
6		SUBSTATION OPERATOR STATION
7		SUBSTATION OPERATION STATION
8	41CKA23	TENORE SERVER OPERATION STATION (G.T.)
9	41CK01	COMPOSER ENGINEERING STATION
10		CONTINUOUS EMISSION MONITORING SYSTEM
11	41CK11	B/W LASERJET PRINTER (DCS)
12	41CK12	B/W ALARM PRINTER (DCS)
13	41CK13	B/W LASERJET PRINTER (DCS)
14	41CK14	COLOR INKJET PRINTER (DCS)
15	41CK31	B/W ALARM PRINTER (G.T.)
16	41CK32	B/W ALARM PRINTER (G.T.)
17	41CK33	B/W LASERJET PRINTER (G.T.)
18	41CK34	COLOR INKJET PRINTER (G.T.)
19		FIRE FIGHTING CABINET
20		SUBSTATION OPERATOR SCREEN (TEMPORARY)
21		SUBSTATION OPERATOR SCREEN (TEMPORARY)
22	00AQAD1	SRU OSCILLO ROSELECTRA
23		TVA ROSELECTRA

01	ACCORDING TO TRACTEBEL COMMENTS	Rizzi	Ghinetti	Pelizza	Falavigna	28/06/05		
00	FIRST ISSUE	Rizzi	Ghinetti	Pelizza	Falavigna	05/04/05		
Rev. rev.	Sc. sc.	Descrizione kind of revision	Preparata prepared	Controllato checked	Verificato verified	Verificato verified	Approvato approved	Data date
Progetto/project			ROSELECTRA PROJECT					
Commissa/job no.			Emittente/issued by			Classe riserv. Confid. class		
0249			OPT/AUT			CRL		
Ciente/client			ELECTRABEL s.a.					
Tipo doc./doc.type			Scala/scale			Derivato da/derived from		
CRL			1:50					
AnsaldoEnergia			MAIN CONTROL ROOM GENERAL ARRANGEMENT					
Codice struttura product breakdown structure			Identificativa/document no.			Rev./rev. Foglio sheet		
0249 A1 VVH10 50			001			Di of 001		

File : SALACTRULOSE.dwg

POLIFORA
 TRATTO DA S/S ELETT
 ROSEN A S/S ELETT
 ROSELECTRA



LISTA CAVI	
T _{1+T₃}	Cavi 400 V
T ₄	Segnali digitali 110 o 220 V
T ₅	Fibre ottiche
T ₆	Fonia
T ₇	Prolunga segnali dei cavi tubo T18
T ₈	Prolunga segnali dei cavi tubo T19
T ₉	Riserva

} Polifora esistente
 Centrale - S.S.
 132 kV Rosen

GQLDWGA35-01IE.dwg

Tractebel Ingegneria

Cliente: **ROSELECTRA S.p.A.**
 Impianto: **EPCM COMPLEMENTARY WORKS**
 Località: **ROSIGNANO SOLVAY (LI)**

Titolo:
**POLIFORA TRATTO TRA
 SS 380 KV ROSELECTRA
 SS 380 KV ROSEN**



Formato: **A3**
 Scala: **1:20**

Centro di Costo	Tipo	Funz. Emitt.	Selt. Emitt.	Serv. Emitt.	Num. Progr.	01	21	12	04
Account Code	Type	Issuing Dept.	Issuing Sect.	Issuing Serv.	Progr. Number	Rev	gg	mm	aa
50074110	PRD	ING	SPC	CIV	3651				

Per Commenti	Gramigola	Verificato	Approvato
Description	Redatto	Checked	Approved

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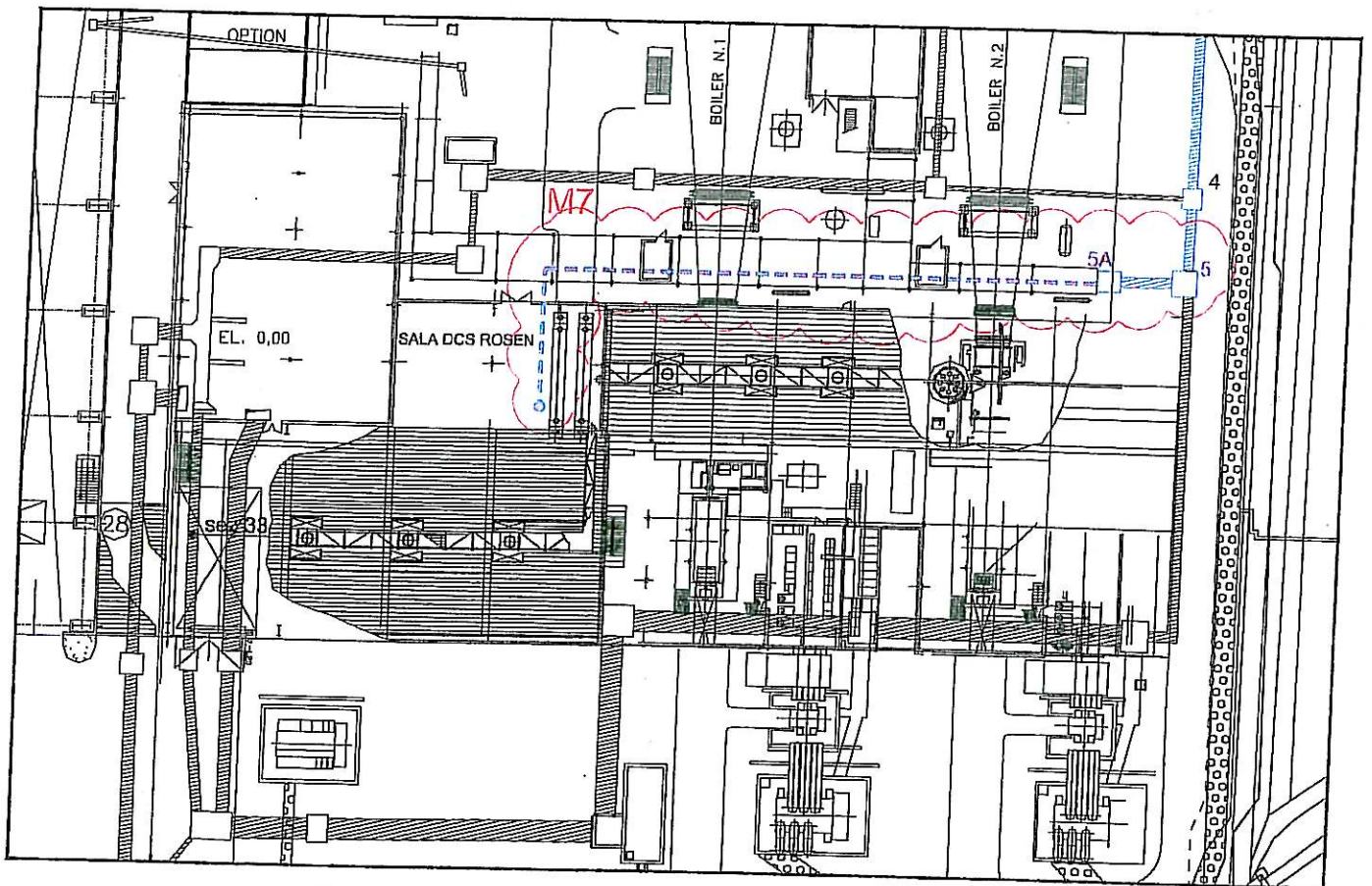
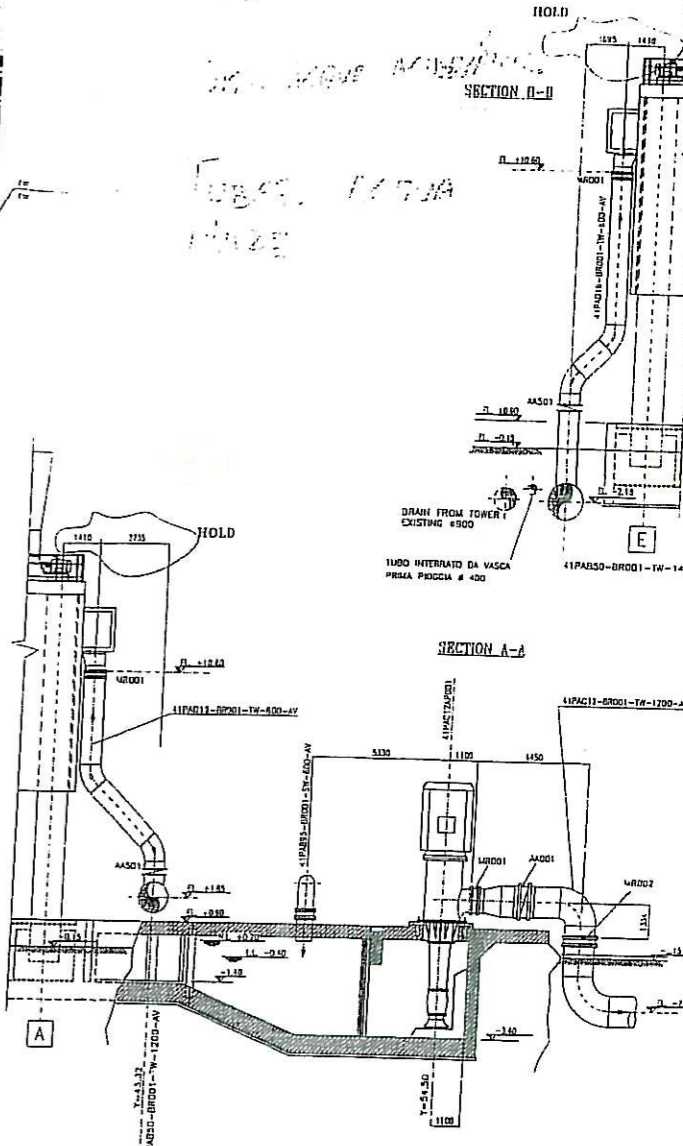
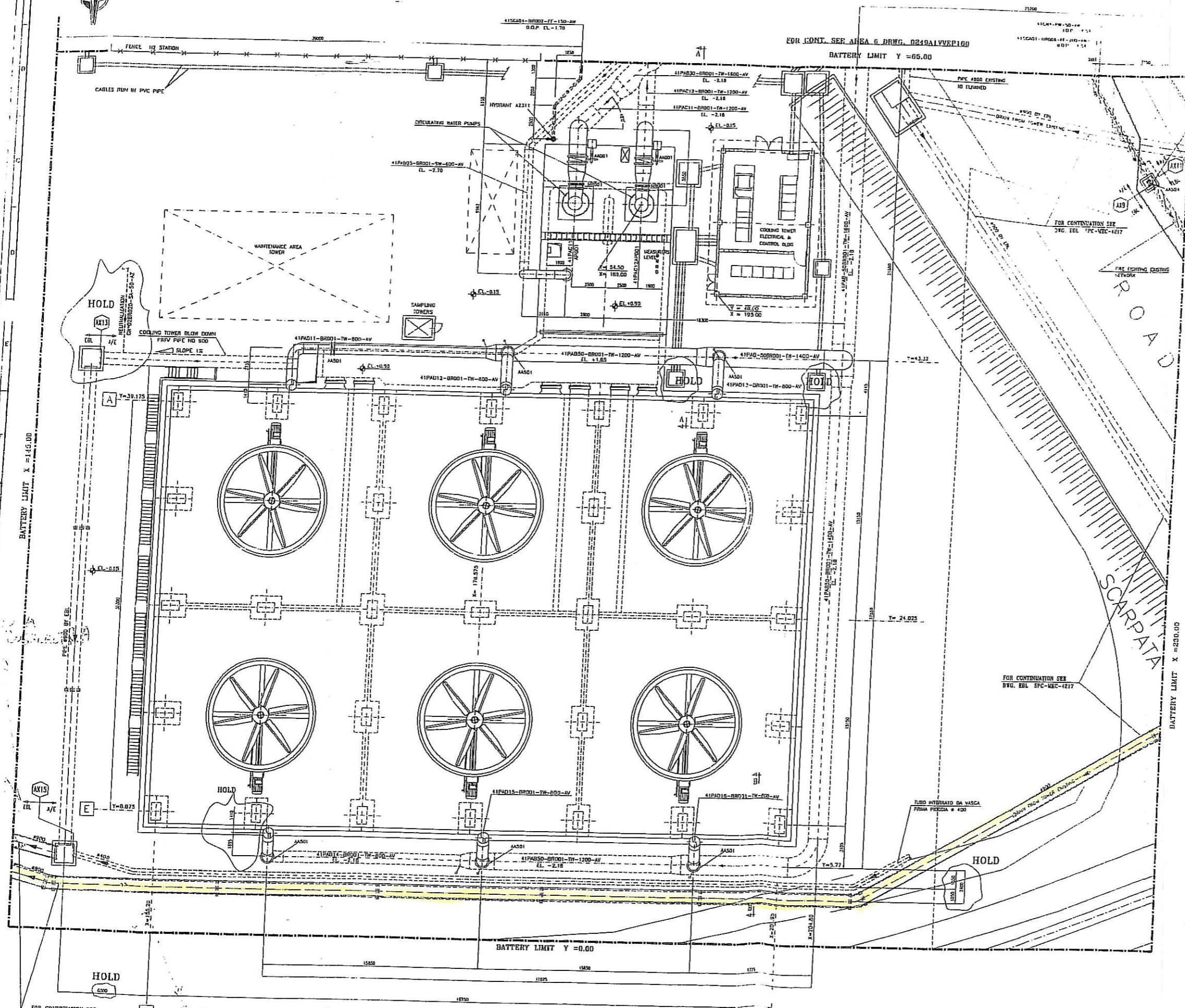
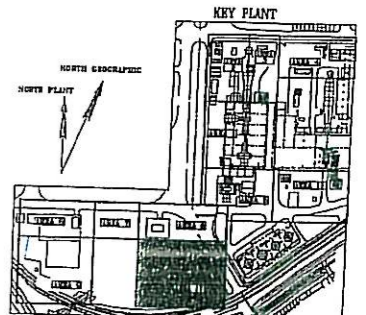


Figura 8 – Percorso cavi Roselectra presso la centrale Rosen

TUB ACQUA MARE ROSEN



- REFERENCE DRAWINGS**
- 0249A1VVP001 rev02 - GENERAL PLANT LAYOUT
 - 0249A1VVP100 rev02 - AREA 10 - YARD - ABOVE AND UNDERGROUND PIPING LAYOUT



- NOTES**
- LEVEL 0.00 REFERS TO LEVEL +8.55 MSL ABOVE SEA LEVEL
 - ALL DIMENSIONS ARE IN METERS
 - ALL LEVELS ARE IN MSL
 - ALL COORDINATES ARE IN MSL

NO.	REV.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
01	A	GENERAL REVISION				
02	A	GENERAL REVISION				
03	P	FIRST ISSUE				

ROSELECTRA PROJECT		ELECTRABEL S.p.A.	
0249	PPS-10V-VEC	PCO	AD
AnsaldoEnergia		Scale 1:100	
AREA 10 - YARD		ABOVE AND UNDERGROUND PIPING LAYOUT	
0249 A 1VVP201		01 - 01	

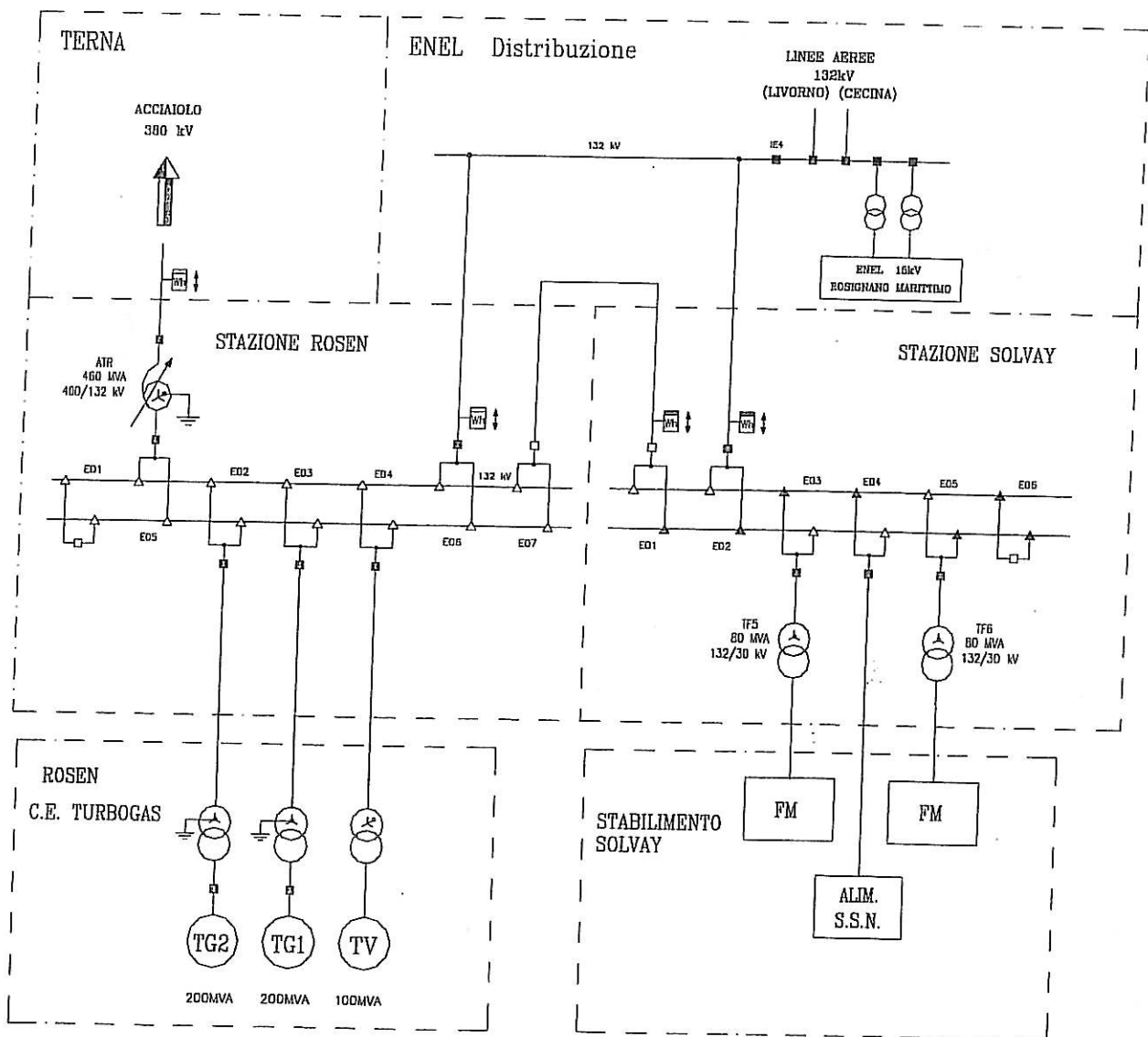


Figura 1 – Schema elettrico semplificato della configurazione esistente

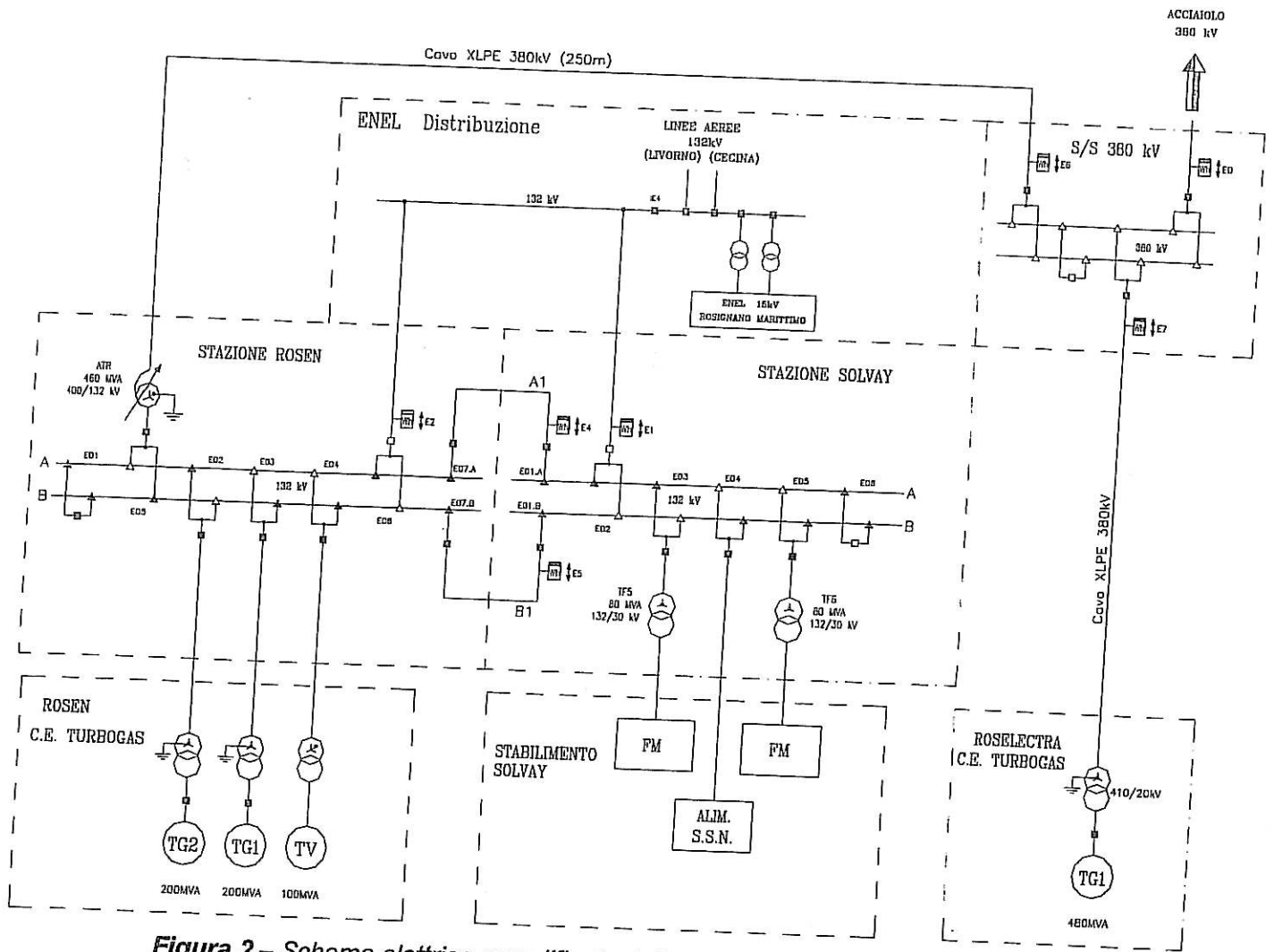


Figura 2 – Schema elettrico semplificato della configurazione futura con Roselectra

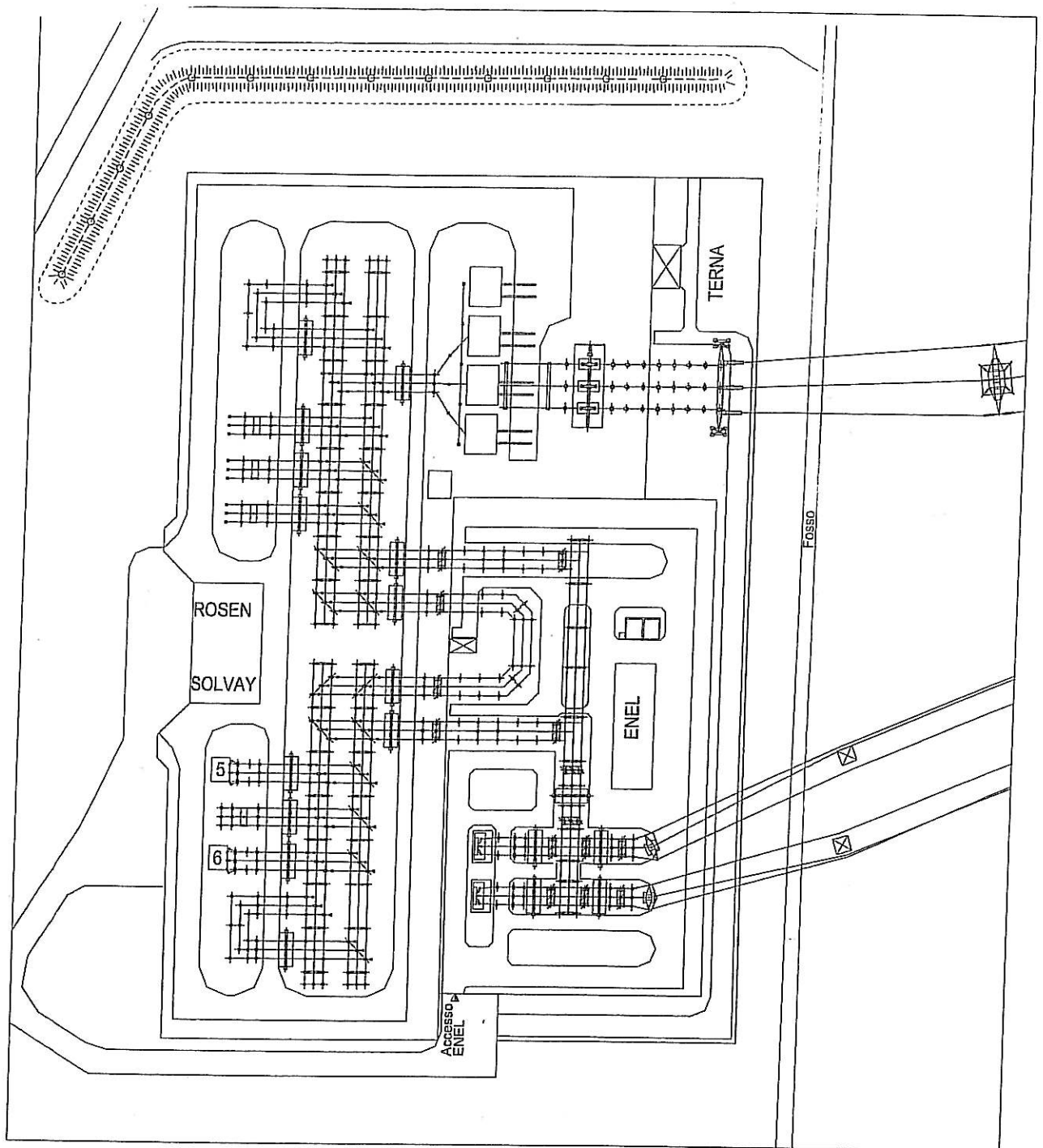


Figura 3 – Layout della stazione AT esistente Rosen-Solvay-ENEL-Terna

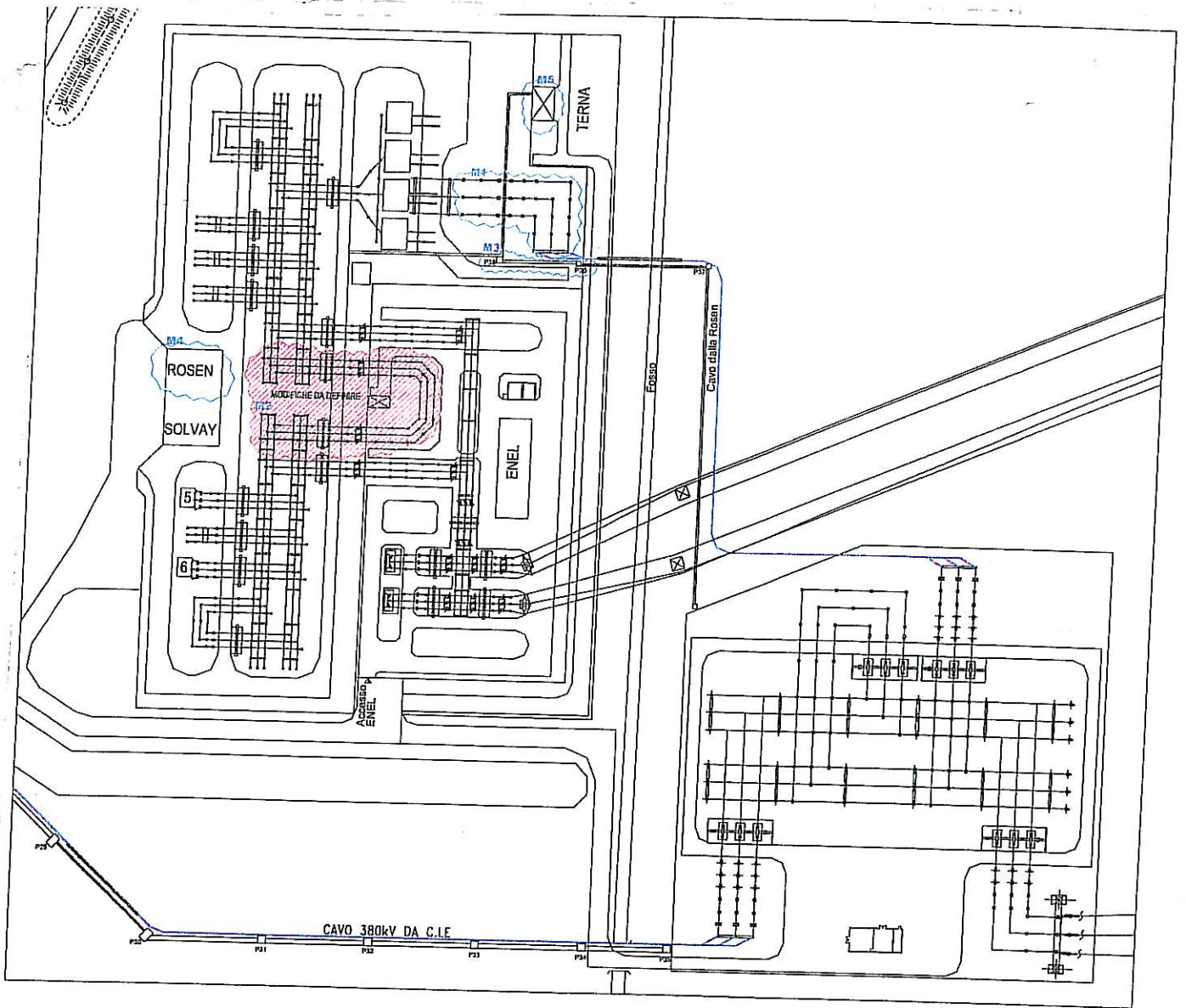


Figura 4 – Layout della stazione AT nella nuova configurazione con Roselectra.
 (Con M1, M2, ecc sono indicate le aree interessate dalle relative modifiche).

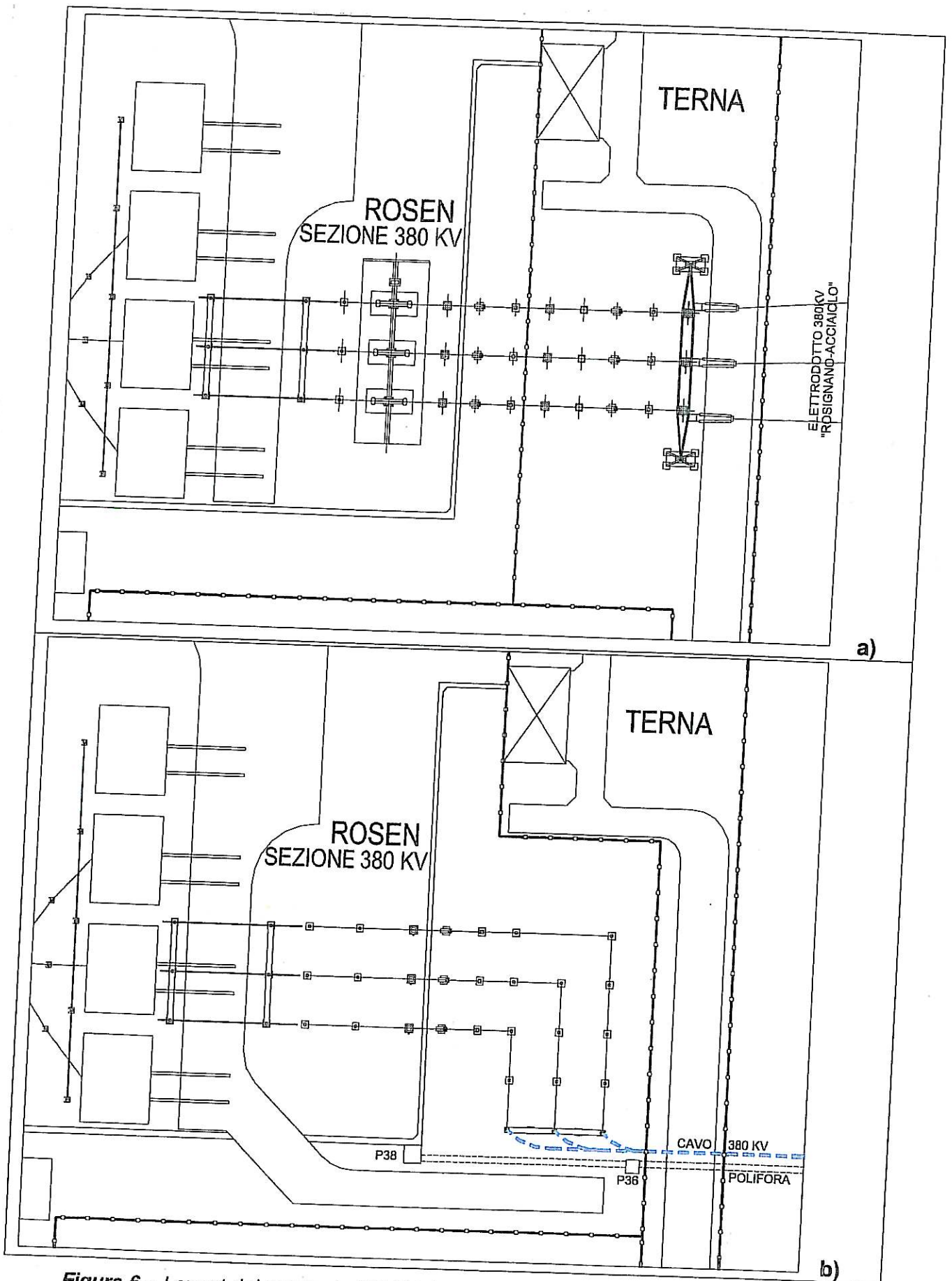


Figura 6 – Layout del montante 380 kV della Rosen prima (a) e dopo (b) le modifiche.