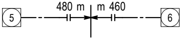
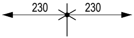

5
480 m
m 460
6



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0	3700	3700	3700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	2800	2800	2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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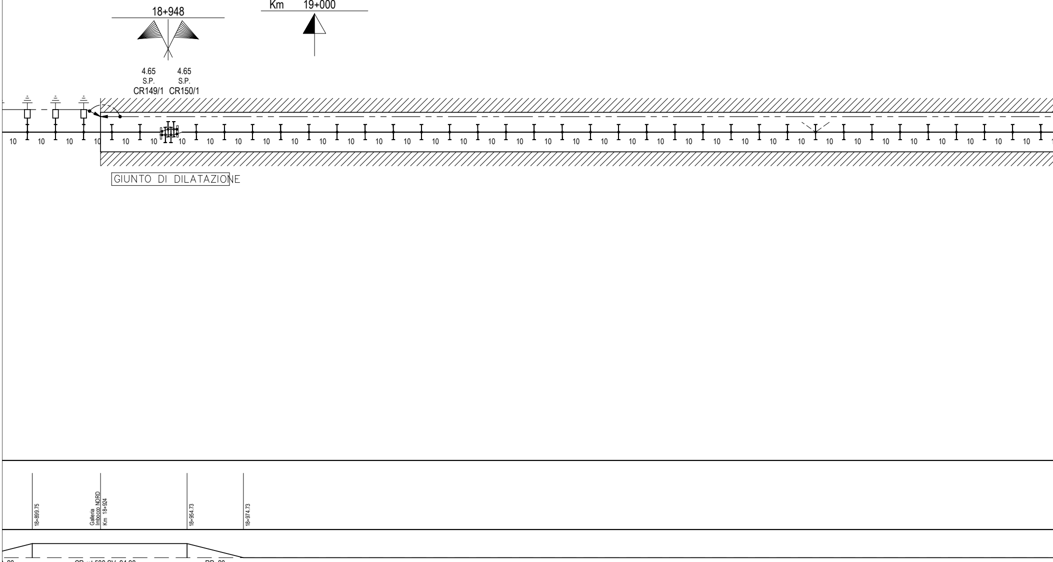
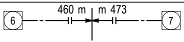
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	M-T01	M-T01	M-T01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14a	LSU 14a	LSU 14a	LSU 14a	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.
88	18+898	18+908	18+918	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	CR144	CR145	CR146	CR147	CR148	CR149	CR150	CR151	CR152	CR153	CR154	CR155	CR156	CR157	CR158	CR159	CR160	CR161	CR162	CR163	CR164	CR165	CR166	CR167	CR168	CR169	CR170	CR171	CR172	CR173	CR174	CR175	CR176	CR177	CR178	CR179	CR180	CR181


18+948
Km 19+000
4.65
S.P.
CR149/1
4.65
S.P.
CR150/1
10
GIUNTO DI DILATAZIONE
18+899.75
Galleria
Imbocco NORD
Km 18+924
18+954.73
18+974.73
=20
CR mt 500 SV=94.98
RP=20


6
460 m
m 473
7

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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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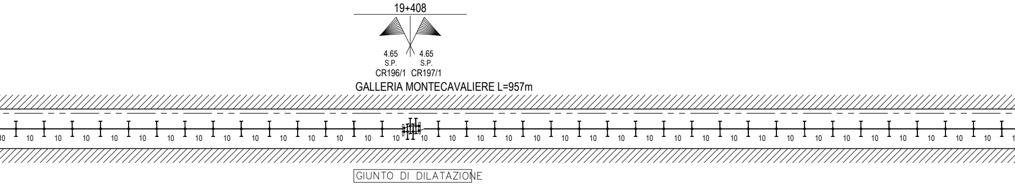
4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CR182	CR183	CR184	CR185	CR186	CR187	CR188	CR189	CR190	CR191	CR192	CR193	CR194	CR195	CR196	CR197	CR198	CR199	CR200	CR201	CR202	CR203	CR204	CR205	CR206	CR207	CR208	CR209	CR210	CR211	CR212	CR213	CR214	CR215	CR216	CR217	CR218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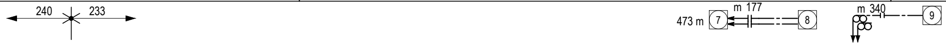
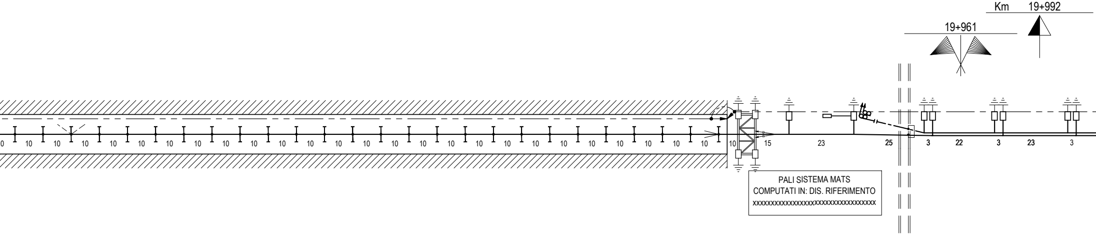
4.65
S.P.
CR196/1
4.65
S.P.
CR197/1
GALLERIA MONTECAVALIERE L=957m
10
GIUNTO DI DILATAZIONE

Rettifilo SV=926.74


240
233
473 m
7
m 177
8
m 340
9

																										↑	↓	↓	↓	↓	↓	↓	↓
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1100	1100	1100	1100	1100	1100	1100	1100
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3200	4200	3700	3700	3700	3700	3700	3700
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NC-773/669	NC-773/669	LC-773/869	FC-773/909	LC-773/869	LC-773/869	LC-773/869	LC-773/869
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	-200	-250	0	-250	-50	-250	-250
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0	-3	-4	-4	-4	-4
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.33	2.25	2.25	2.25	2.25	2.25	2.25	2.25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M-TPO	M-T01	M-T01+M-TTT	M-T01	M-T01	M-T01	M-T01	M-R01
S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	POT 1BIN	LSU 14a	LSU 18a	LSU 18a	LSU 14a	LSU 14a	LSU 14a	LSU 14a
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19+888	19+903	19+926	19+951	19+954	19+976	19+979	20+002
CR219	CR220	CR221	CR222	CR223	CR224	CR225	CR226	CR227	CR228	CR229	CR230	CR231	CR232	CR233	CR234	CR235	CR236	CR237	CR238	CR239	CR240	CR241	CR242	CR243	CR244	44	45	46	47	48	49	50	51


Km 19+992
19+961
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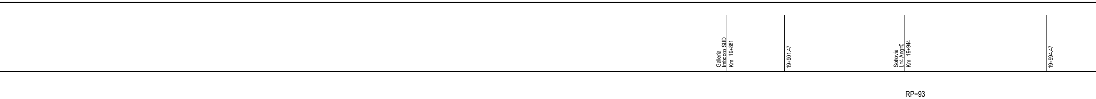
PALI SISTEMA MATS
COMPUTATI IN: DIS. RIFERIMENTO
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx


Galleria
Imbocco SUD
Km 19+881
19+901.47
Sottovia
L=4 Ang=0
Km 19+944
19+994.47
RP=93

8
177 m
9
340 m
10
222 m

750	1100	700	1100	1100	1100	1100	1100	1100	1100	1100	1100
3700	3700	3700	3700	7200	7200	7200	3700	3700	3200	4200	3200
2100-3200	2100-3200	2100-3200	2100-3200	4100-5200 6100-7200	4100-5200 6100-7200	4100-5200 6100-7200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200
LC-773/852	LC-773/869	FC-773/908	LC-773/869	NC-773/983	NC-773/983	NC-773/983	LC-773/869	LC-773/869	NT-773/788	NC-773/669	NC-773/788
-500	-250	-500	-250	-200	-200	-200	-200	0	200	-200	200
1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
-4	-4	-3	0	-4	-4	-4	-4	-4	1	1	1
2.25	2.25	2.25	2.25	5.5	5.5	5.5	2.25	2.25	2.25	2.25	2.25
M-R01	M-R01	M-R01	M-R01+M-RTT	AGG	AGG	AGG	M-R01	M-R01	M-R01	M-T01	M-TPO
LSU 14a	LSU 14a	LSU 18a	LSU 18a	LSU 18c	LSU 18c	LSU 18c	LSU 14a	LSU 14a	LSU 14a	LSU 14a	POT 1BIN
20+005	19+028	20+031	20+058	20+088	20+111	20+134	20+160	20+185	20+210	20+237	20+257
52	53	54	55	56	57	58	59	60	61	62	63

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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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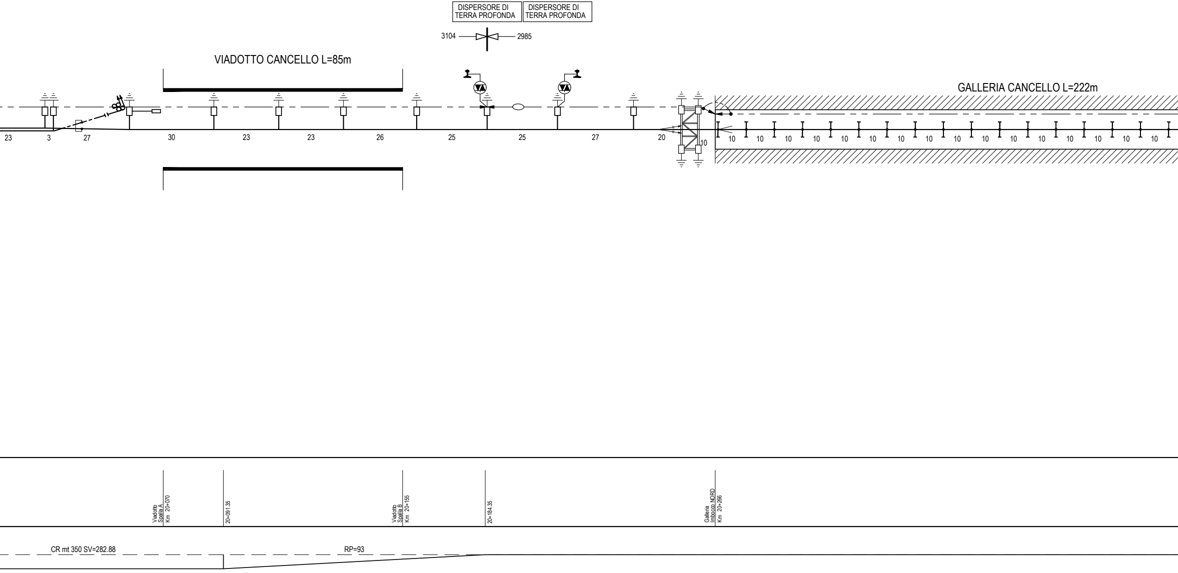
DISPERSORE DI TERRA PROFONDA
DISPERSORE DI TERRA PROFONDA
3104
2985
VIADOTTO CANCELLO L=85m
GALLERIA CANCELLO L=222m
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Viadotto Spalla A Km 20+070
20+091.35
Viadotto Spalla B Km 20+155
20+184.35
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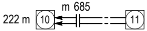
CR mt 350 SV=282.88
RP=93


m 685
222 m
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11

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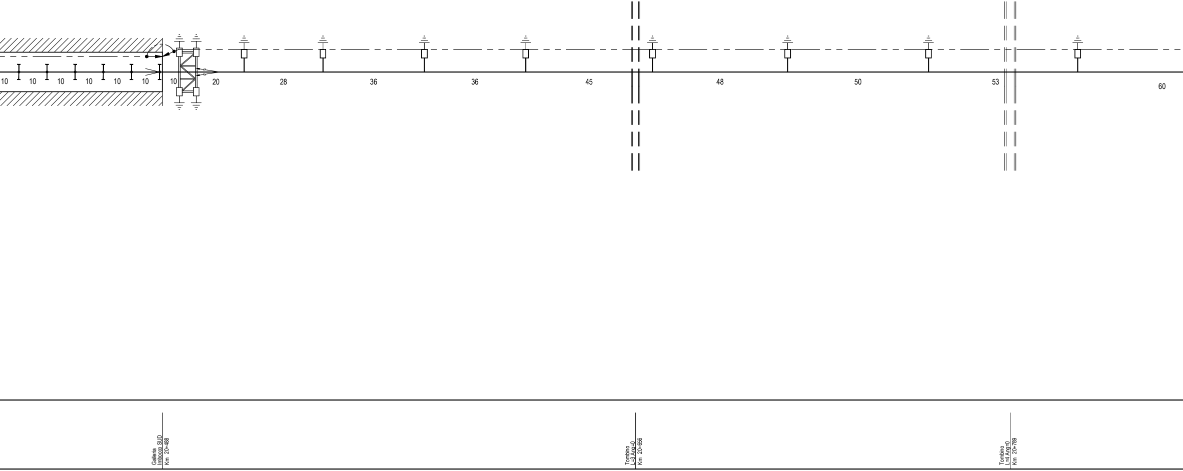
-	-	-	-	-	-	1100	1100	1100	1100	1100	1100	1100	1100	1100
-	-	-	-	-	-	4200	3200	4200	3200	4200	3200	4200	3200	4200
-	-	-	-	-	-	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200
-	-	-	-	-	-	NC-773/669	NC-773/788	NC-773/669	NC-773/788	NC-773/669	NT-773/788	NT-773/788	NT-773/788	NC-773/669
-	-	-	-	-	-	-200	200	-200	200	-200	200	-200	200	-200
-	-	-	-	-	-	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.70	4.75	4.80	4.85	4.90	5.00	5.10
-	-	-	-	-	-	1	1	1	1	1	1	1	1	1
2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
-	-	-	-	-	-	M-TPO	M-T01	M-T01	M-T01	M-T01	M-T01	M-T01	M-R01	M-R01
S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	POT 1BIN	LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 14a
-	-	-	-	-	-	20+497	20+517	20+545	20+581	20+617	20+662	20+710	20+760	20+813
CR262	CR263	CR264	CR265	CR266	CR267	64	65	66	67	68	69	70	71	72


10
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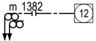
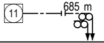
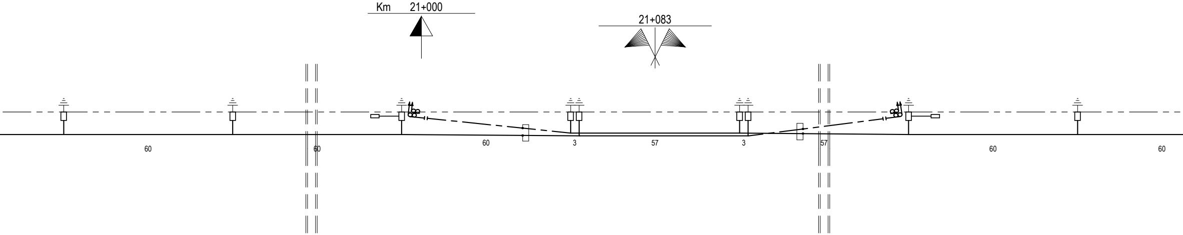
Galleria
Imbocco SUD
Km 20+488
Tombino
L=3 Ang=0
Km 20+656
Tombino
L=4 Ang=0
Km 20+789





↑	↓	↑	↓	↓	↑	↓	↓	↑
1100	1100	1100	900	1100	1100	900	1100	1100
3200	4200	3200	3700	4200	3200	3700	4200	3200
2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200
NT-773/788	NC-773/669	NT-773/788	FC-773/911	NC-773/669	NT-773/788	FC-773/911	NC-773/669	NT-773/788
200	-200	200	0	-200	200	0	-200	200
1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
1	1	2	1	1	1	1	2	1
2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
M-R01	M-R01	M-R01+M-RTT	M-R01	M-R01	M-R01	M-R01	M-R01+M-RTT	M-T01
LSU 14a	LSU 14a	LSU 18a	LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 18a	LSU 14a
20+873	20+933	20+993	21+053	21+056	21+113	21+116	21+173	21+233
73	74	75	76	77	78	79	80	81

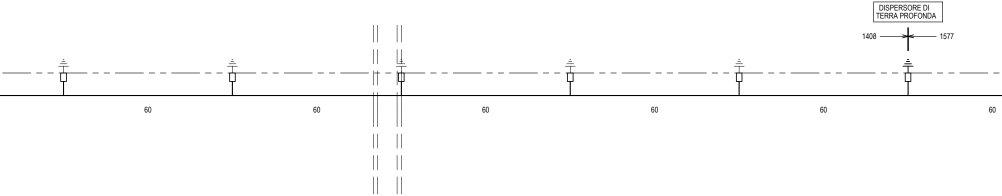

Km 21+000
21+083
60
60
60
3
57
3
57
60
60

Tombino
L=4 Ang=0
Km 20+961

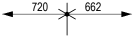
Tombino
L=4 Ang=0
Km 21+143

Rettifilo SV=1750.87

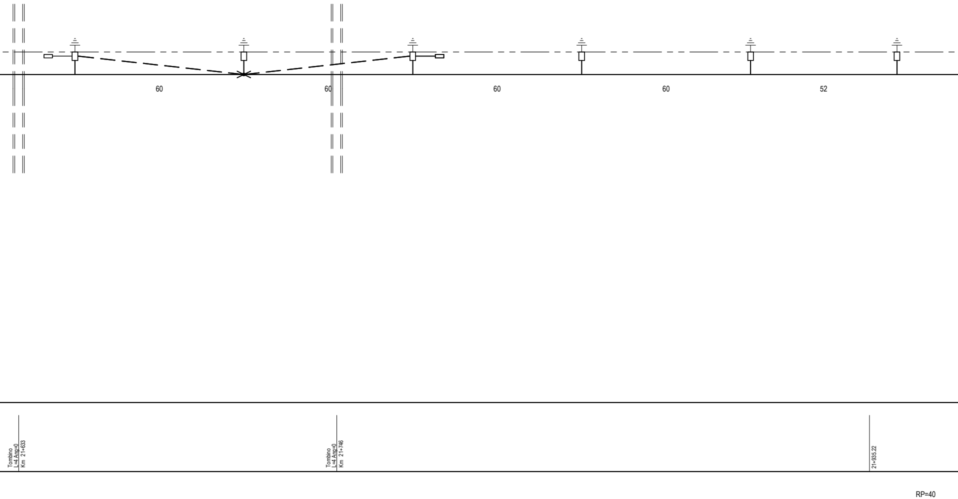
↓	↑	↓	↑	↓	↑
1100	1100	1100	1100	1100	1100
4200	3200	4200	3200	4200	3200
2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200
NC-773/669	NT-773/788	NC-773/669	NT-773/788	NC-773/669	NT-773/788
-200	200	-200	200	-200	200
1.25	1.25	1.25	1.25	1.25	1.25
5.20	5.20	5.20	5.20	5.20	5.20
1	1	1	1	1	1
2.25	2.25	2.25	2.25	2.25	2.25
M-T01	M-T01	M-R01	M-R01	M-T01	M-R01
LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 14a
21+293	21+353	21+413	21+473	21+533	21+593
82	83	84	85	86	87


DISPERSORE DI
TERRA PROFONDA
1408
1577
60
60
60
60
60
60

Sottovia
L=10 Ang=0
Km 21+408

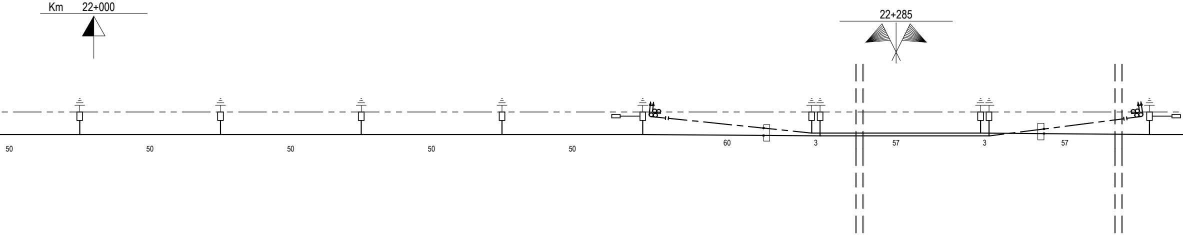


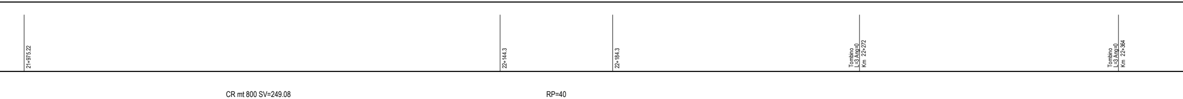
↓	↑	↓	↑	↓	↓
1100	1100	1100	1100	1100	1100
4200	3200	4200	3200	4200	4200
2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200
NC-773/669	NT-773/788	NC-773/669	NT-773/788	NC-773/669	NC-773/669
-200	200	-200	200	-200	-200
1.25	1.25	1.25	1.25	1.25	1.25
5.20	5.20	5.20	5.20	5.20	5.20
2	1	2	1	1	-2
2.25	2.25	2.25	2.25	2.25	2.25
M-R01+M-RTT	M-R01	M-R01+M-RTT	M-R01	M-R01	M-R01
LSU 16a	LSU 14a	LSU 16a	LSU 14a	LSU 14a	LSU 14a
21+653	21+713	21+773	21+833	21+893	21+945
88	89	90	91	92	93


60
60
60
60
52
Tombino
L=4 Ang=0
Km 21+633
Tombino
L=4 Ang=0
Km 21+746
21+935.22
RP=40

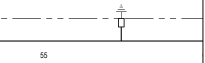
m 1212
13
12
1382 m

↓	↓	↓	↓	↑	↓	↓	↑	↓	↓
1100	1100	1100	1100	1100	900	1100	1100	900	1100
4200	4200	4200	4200	3200	3700	4200	3200	3700	4200
2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200	2100-3200
NC-773/669	NC-773/669	NC-773/669	NC-773/669	NT-773/788	FC-773/911	NC-773/669	NT-773/788	FC-773/911	NC-773/669
-200	-200	-200	-200	200	0	-200	200	0	-200
1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
-2	-2	-2	-2	2	1	1	1	1	2
2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
M-R01	M-R01	M-R01	M-R01	M-R01+M-RTT	M-R01	M-R01	M-R01	M-R01	M-R01+M-RTT
LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 18a	LSU 14a	LSU 14a	LSU 14a	LSU 14a	LSU 18a
21+995	22+045	22+095	22+145	22+195	22+255	22+258	22+315	22+318	22+375
94	95	96	97	98	99	100	101	102	103


Km 22+000
22+285
50
50
50
50
50
60
3
57
3
57


21+975.22
22+144.3
22+184.3
Tombino L=3 Ang=0 Km 22+272
Tombino L=3 Ang=0 Km 22+364
CR mt 800 SV=249.08
RP=40

1100
3200
2100-3200
NT-773/788
200
1.25
5.20
1
2.25
M-T01
LSU 14a
22+430
104



COMMITTENTE:

RFI RETE FERROVIARIA ITALIANA
GRUPPO FERROVIE DELLO STATO ITALIANE

PROGETTAZIONE:

ITALFERR
GRUPPO FERROVIE DELLO STATO ITALIANE

COLLEGAMENTO LAMEZIA T. - CATANZARO - DORSALE JONICA

U.O. TECNOLOGIE SUD

PROGETTO DEFINITIVO

ELETTRIFICAZIONE TRATTA LAMEZIA T. - CATANZARO L.

ITALFERR S.p.A.
Ordine degli Ingegneri della
Provincia di La Spezia
Dott. Ing. Andrea Nardinocchi
Iscritto all'Albo Professionale
COD. N. A1263

IMPIANTI TE – LINEA DI CONTATTO

Tratta Feroleto – Marcellinara Piano di elettrificazione e circuito di protezione (2 di 3)

PFTE da sottoporre all'esame del CSLLPP ai sensi del DL 16 luglio 2020, n. 76 convertito con legge n. 120/2020 << Misure urgenti per la semplificazione e l'innovazione digitale >>

SCALA:
1:1000

COMMESSA	LOTTO	FASE	ENTE	TIPO DOC.	OPERA/DISCIPLINA	PROGR.	REV.
RC0W	01	D	67	P7	LC0500	002	B

Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	Autorizzato Data
A	Emissione Esecutiva	V. Gentili	Giugno 2020	A.Genovese	Giugno 2020	S. Vanfiori	Giugno 2020	A. Presta Ottobre 2020
B	Revisione Generale	V. Gentili	Ottobre 2020	A.Genovese	Ottobre 2020	S.Vanfiori	Ottobre 2020	Ingegnere ANTONIO PRESTA Sezione: A n. 1959

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