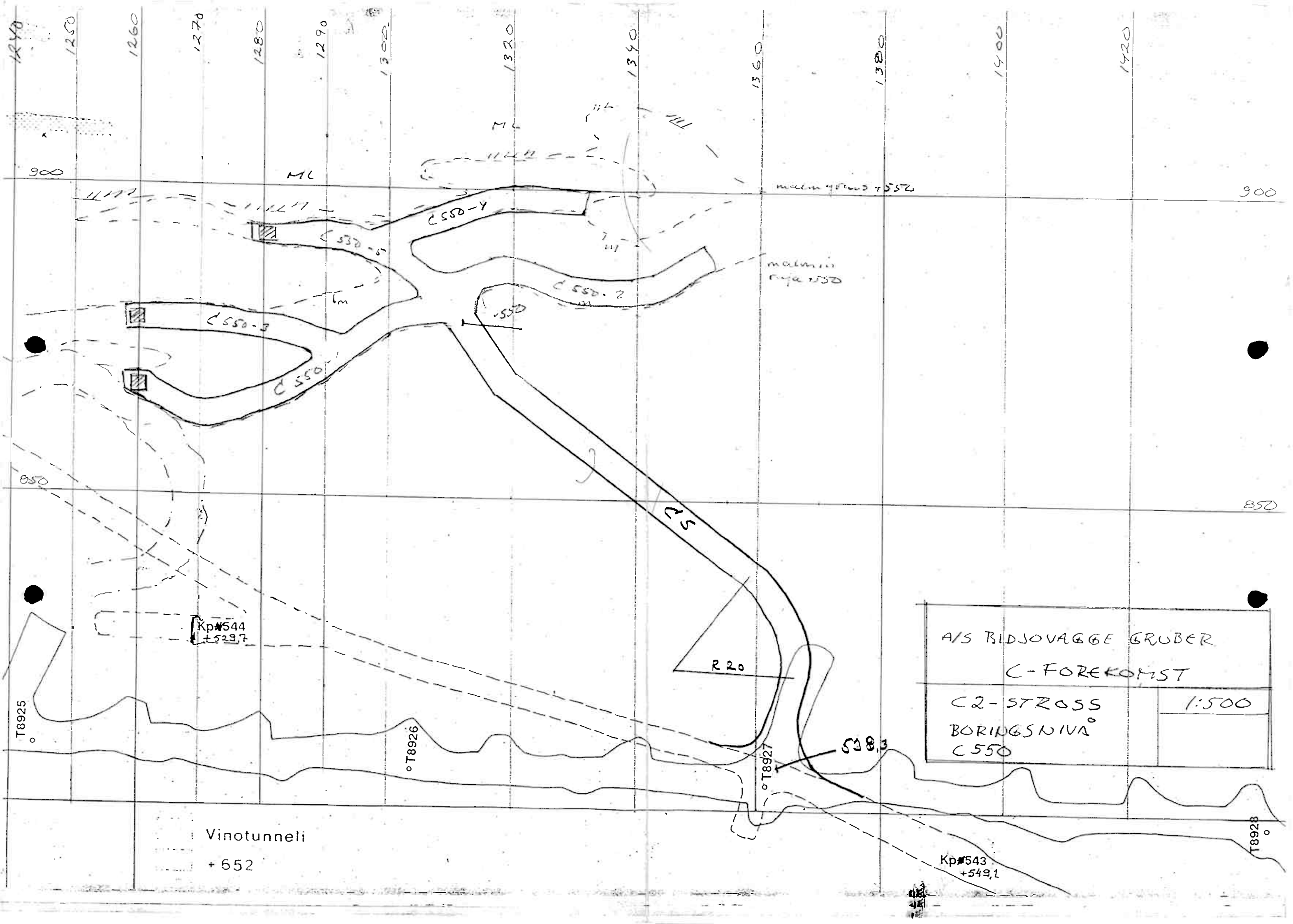




Vinotunneli

+552

A/S BIDJOVAGGE GRUBER

C-FOREKOMST

C2-STROSS
BORINGSNIVA
C550

1:500

Kp#543
+549.1

900

90 ——— 90

570

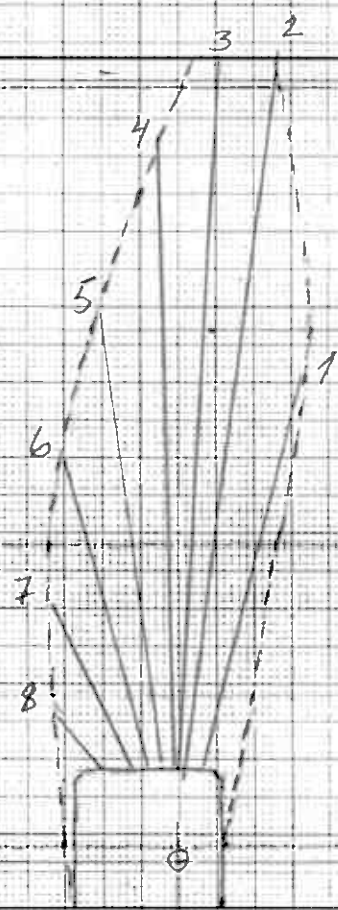
565

560

551

Nº	M	Oº
1	8,5	14
2	24	6
3	24	2
4	20,5	2
5	15	8
6	10,5	16
7	6	26
8	2	40
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

Nº	M	Oº
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		



523

Line 1350 *San M.*

1:250

C 2

L 54

11.6.90 / *[Signature]* / TM

90 ————— 90

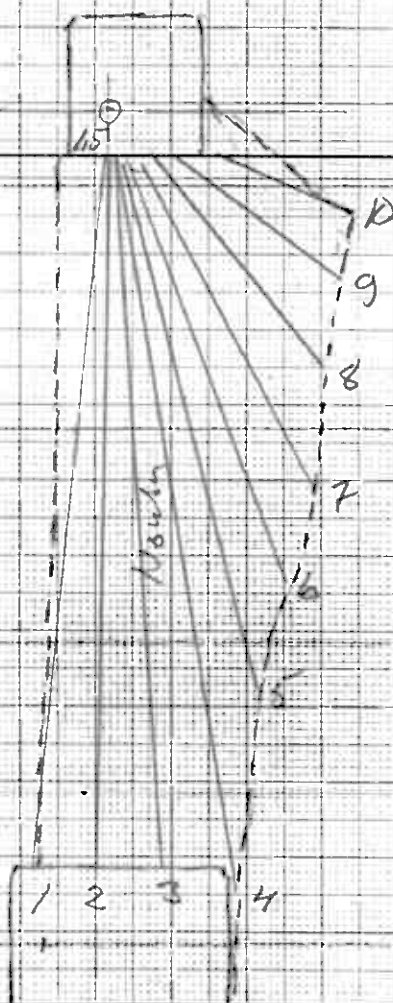
570

525

560

557

Nº	M	Ø
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		



N°	M	O°
1	24	4
2	24	1
3	24	4
4	24	9
5	17	14
6	17	21
7	12	23
8	8.5	40
9	6.5	54
10	5	67
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

523

LINE 1338 Study

1.250

Q 2

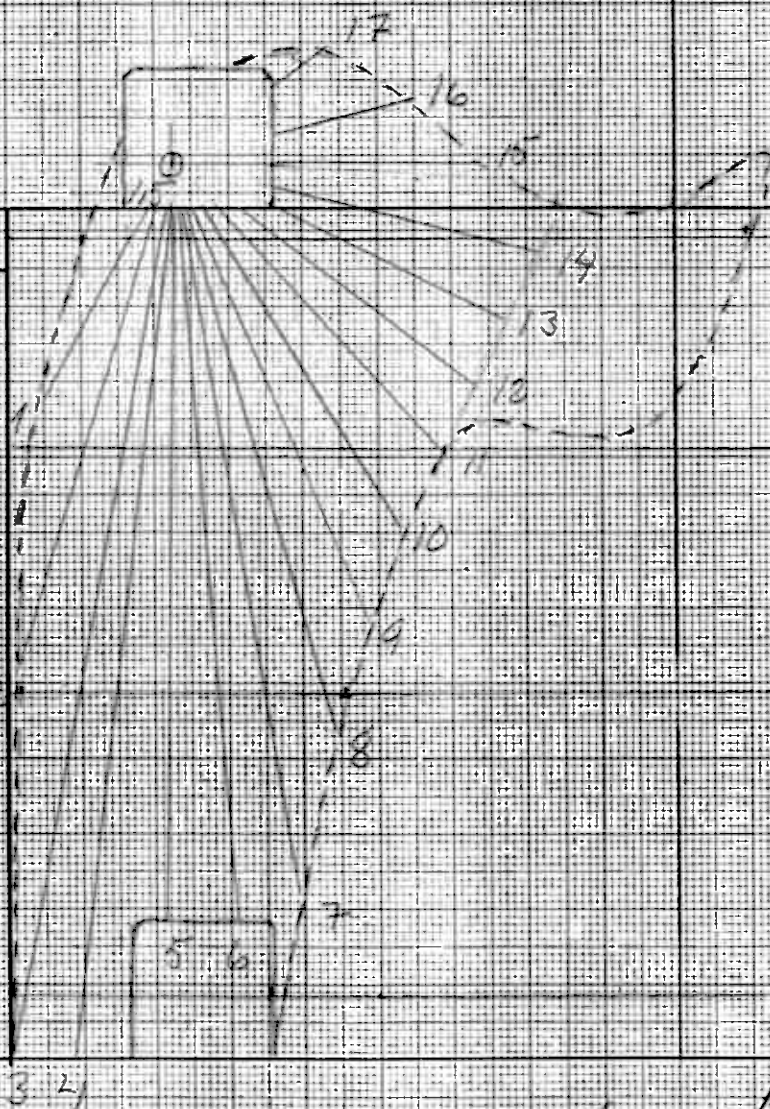
46

11.6.90 / 12 PM

900

557

Nº	M	O
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		



N°	M	O*
1	7	23
2	14,5	18
3	28	15
4	28	6
5	24	0
6	24	5
7	24	10
8	17	16
9	14	24
10	12	33
11	10,5	44
12	9	55
13	8,5	66
14	7	77
15	7	80
16	5	14
17	2	32
18		
19		
20		
21		
22		
23		
24		

523

~~Line 13005~~

1.250

C2

4

12.6.90 / 1 Re. / TM

850

90 90

900

565

560

551

Nº	M	Oº
----	---	----

1
2
3
4
5
6
7
8
9
10
11
12

Nº	M	Oº
1	11	27
2	13	34
3	14	41
4	14	48
5	12	55
6	11	65
7	10	76
8	9,5	90
9	9	79
10	7	64
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

523

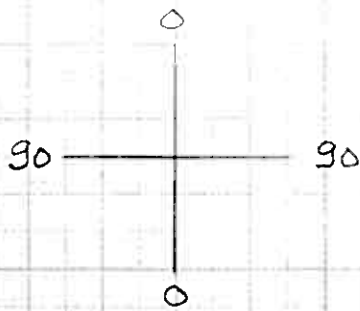
SECTION 1320

1:250

E 2

L 36 B

29.6.90 / V / 17/10



065

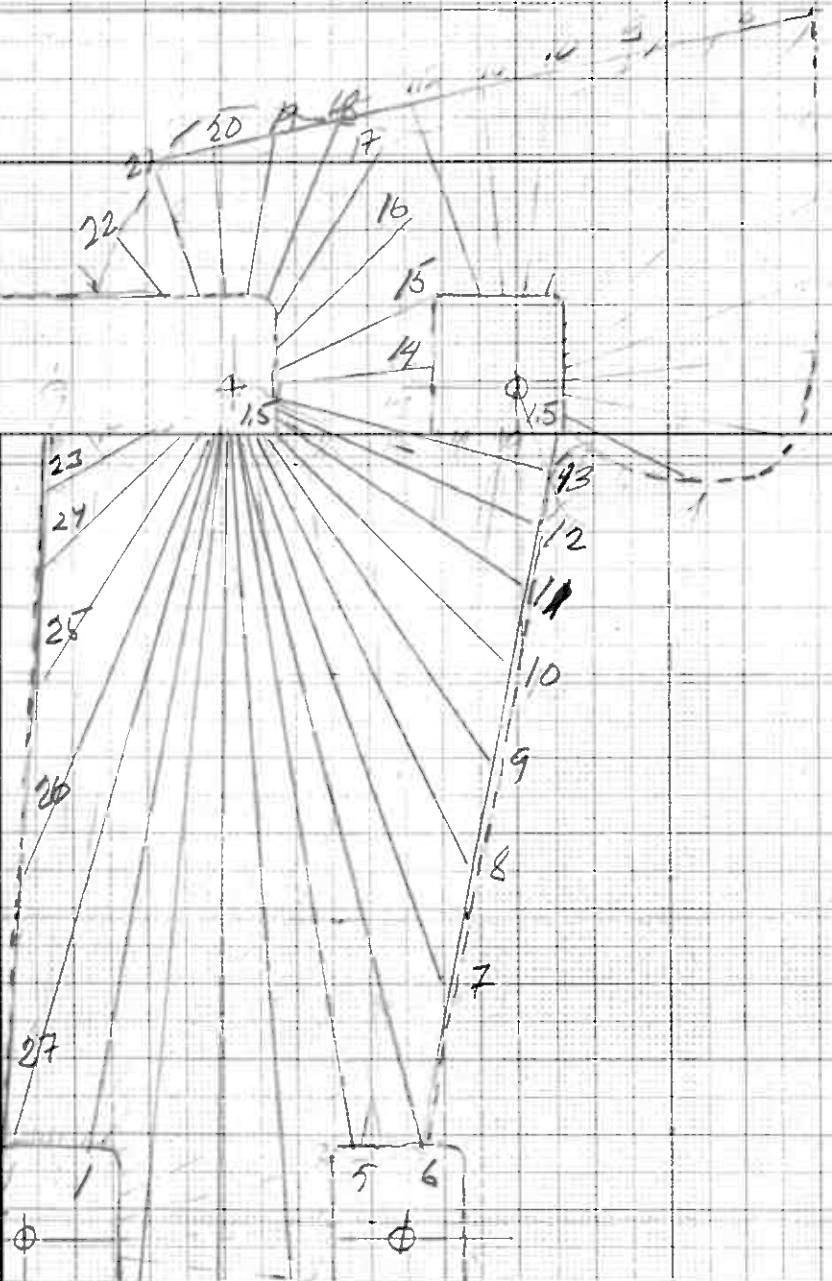
560

551

Nº	M	O°
1	24	12
2	27	8
3	27	2
4	27	3
5	24	8
6	24	13
7	19	19
8	15	26
9	12,5	34
10	10	44
11	9	55
12	9	65
13	9	75
14	5	85
15	6	66
16	6,5	47
17	6,5	32
18	6	22
19	5	9
20	5	4

523

Nº	M	O°
21	4,5	20
22	3	39
23	3	62
24	6	47
25	9	34
26	15	24
27	24	18



SECTION 1310S

1:250

C2

L 30

L 31

28.6.90/1R/TM

900

90 90

570

565

560

551

Nº	M	Oº
1	24	12
2	24	10
3	24	5
4	25	0
5	20	5
6	20	10
7	15	15
8	11	27
9	8	38
10	6	52
11	5	67
12	5	79
13	5	87
14	5	73
15	6	60
16	7	49
17	8	39
18	11.5	30
19	12	22
20	10.5	14
21	10	6
22	10	2

Nº	M	Oº
1	19.5	11
2	22	6
3	27	2
4	28	2
5	24	4
6	7	22
7	12	10
8	24	2
9	26	3
10	6	18
11	14	12
12	13	4
13	12	4
14	5	18
15	13	10
16	12	2
17	12	2
18		
19		
20		
21		
22		
23		
24		

523

LINE 1300S

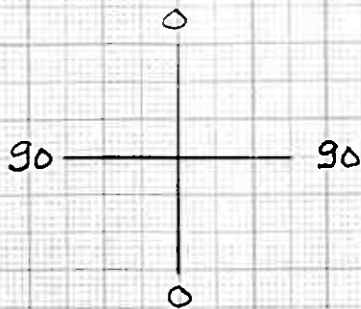
1:250

C2

L25

26.6.80 / HR / TM

650



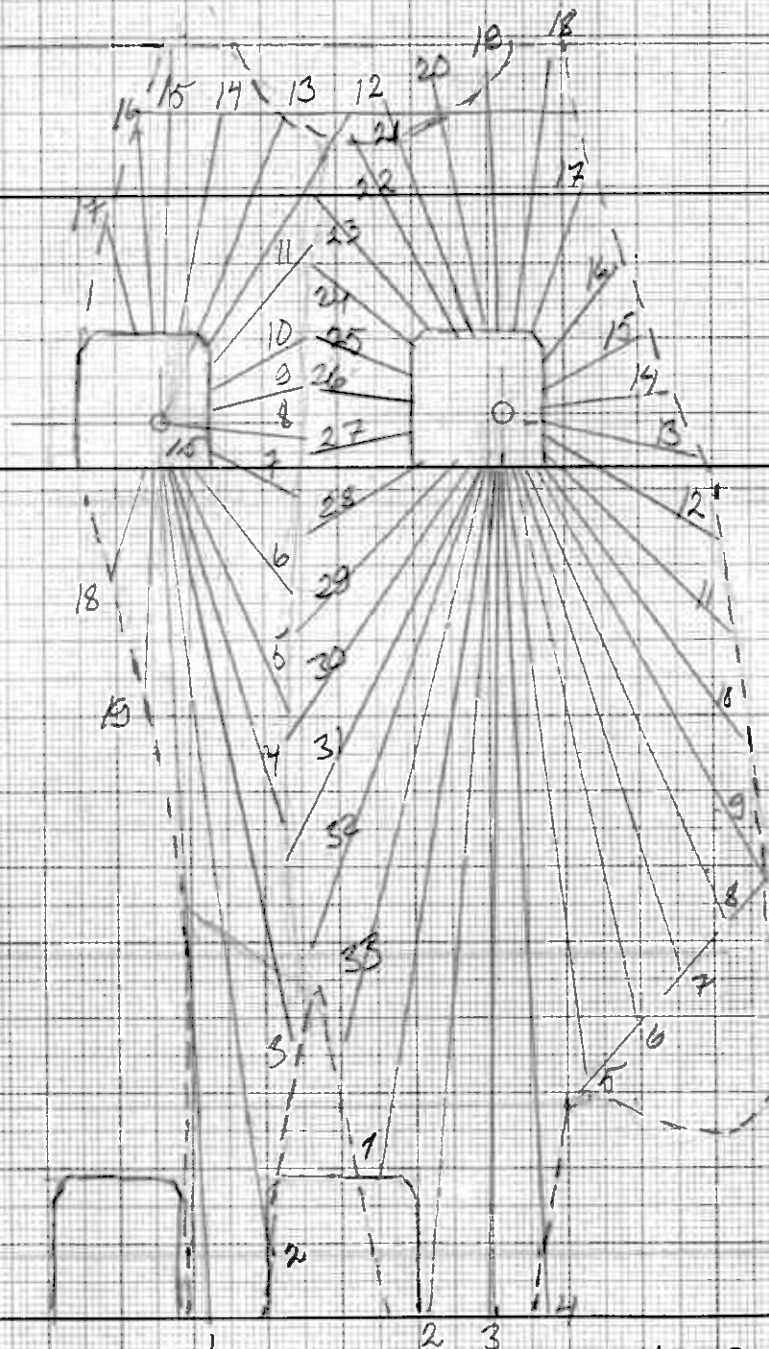
565

560

551

Nº	M	0°
1	28	2
2	27	6
3	19	11
4	12	16
5	9	24
6	5	32
7	3	63
8	3	85
9	3	77
10	4	62
11	5	41
12	9	32
13	8	23
14	7	12
15	7	2
16	7	4
17	3	16
18	2.5	20
19	6.5	4

523



Nº	M	0°
1	24	10
2	28	5
3	28	1
4	28	2
5	21	5
6	19	12
7	17.5	18
8	16	24
9	15.5	30
10	11	37
11	8	47
12	6.5	51
13	5	78
14	4	80
15	4	62
16	4	37
17	5	20
18	9	8
19	9	2
20	9	12
21	9	21
22	7	28
23	5.5	41
24	4	52
25	3	68
26	3	82
27	3	78
28	4	59
29	7	44
30	11	34
31	14.5	26
32	17	20
33	19	16

LINE 12805

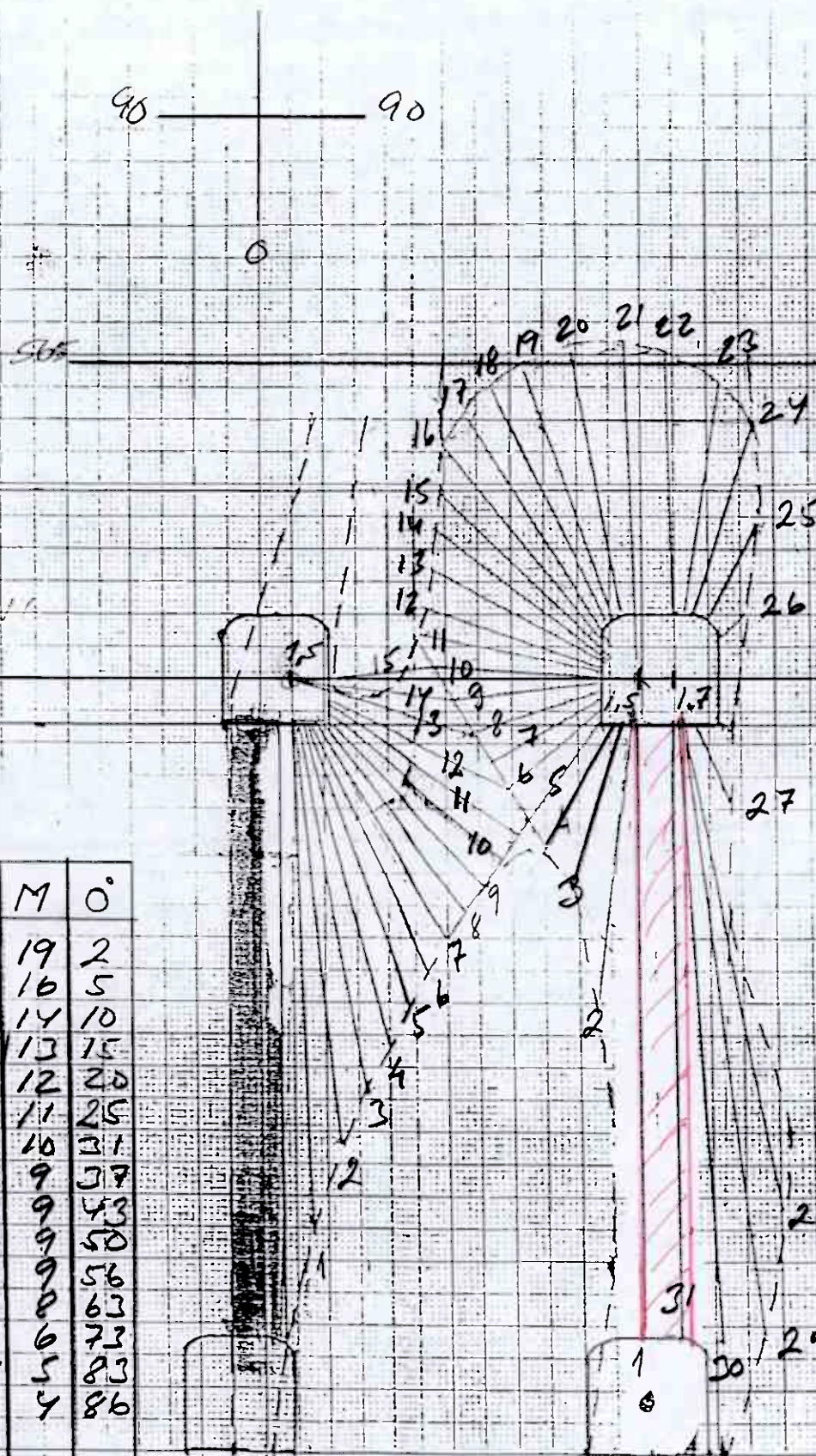
1:25

C 2

L 14

18.5 30/4 R

TM



Nº	M	0°
1	24	0
2	10	8
3	6	18
4	5	29
5	5	38
6	5	50
7	5	60
8	5	71
9	6	83
10	6	87
11	7	79
12	7	72
13	7	63
14	8	55
15	9	48
16	10	40
17	11	34
18	11	27
19	10	21
20	10	12
21	10	3
22	10	1
23	10	9
24	7	18
25	4	29
26	1	48
27	3	25
28	19	12
29	24	8
30	24	4
31	24	0

Nº	M	O
1	19	2
2	16	5
3	14	10
4	13	15
5	12	20
6	11	25
7	10	31
8	9	37
9	9	43
10	9	50
11	9	56
12	8	63
13	6	73
14	5	83
15	4	86

Like
12705

250

C 2

47

25.490 MW/MK

850

28.5/31

90

90

565

560

551

Nº	M	O°
----	---	----

1
2
3
4
5
6
7
8
9
10
11

11 2 13

3 2 1

1	15	21
2	15	3
3	15	2
4	8	8
5	4.5	24
6	3	42
7	3	62
8	4	86
9	4.5	73
10	3.5	54
11	3	33
12	4	15
13	6	5
14	3.5	15

523

1: 250

C 2

Line
2625

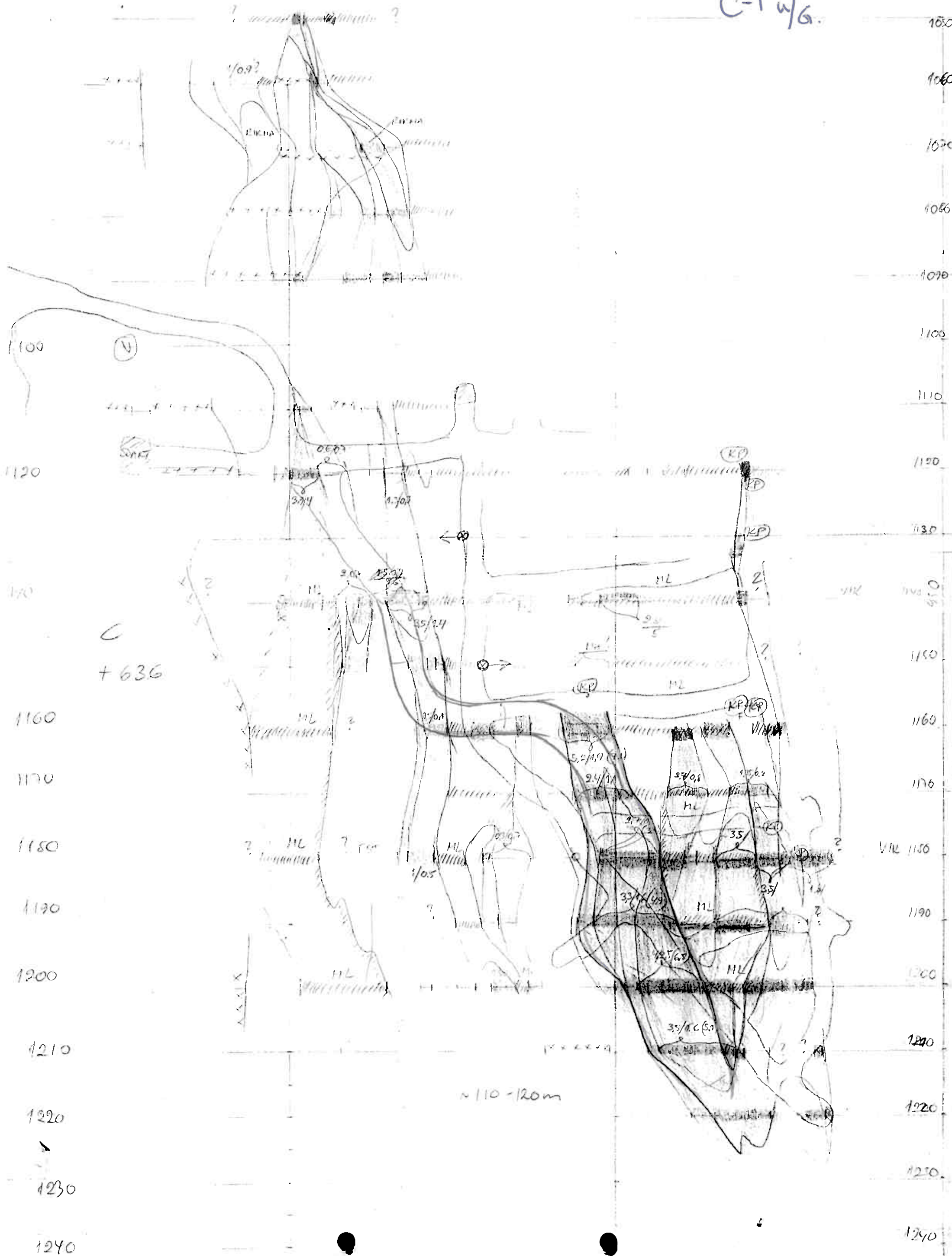
L 2

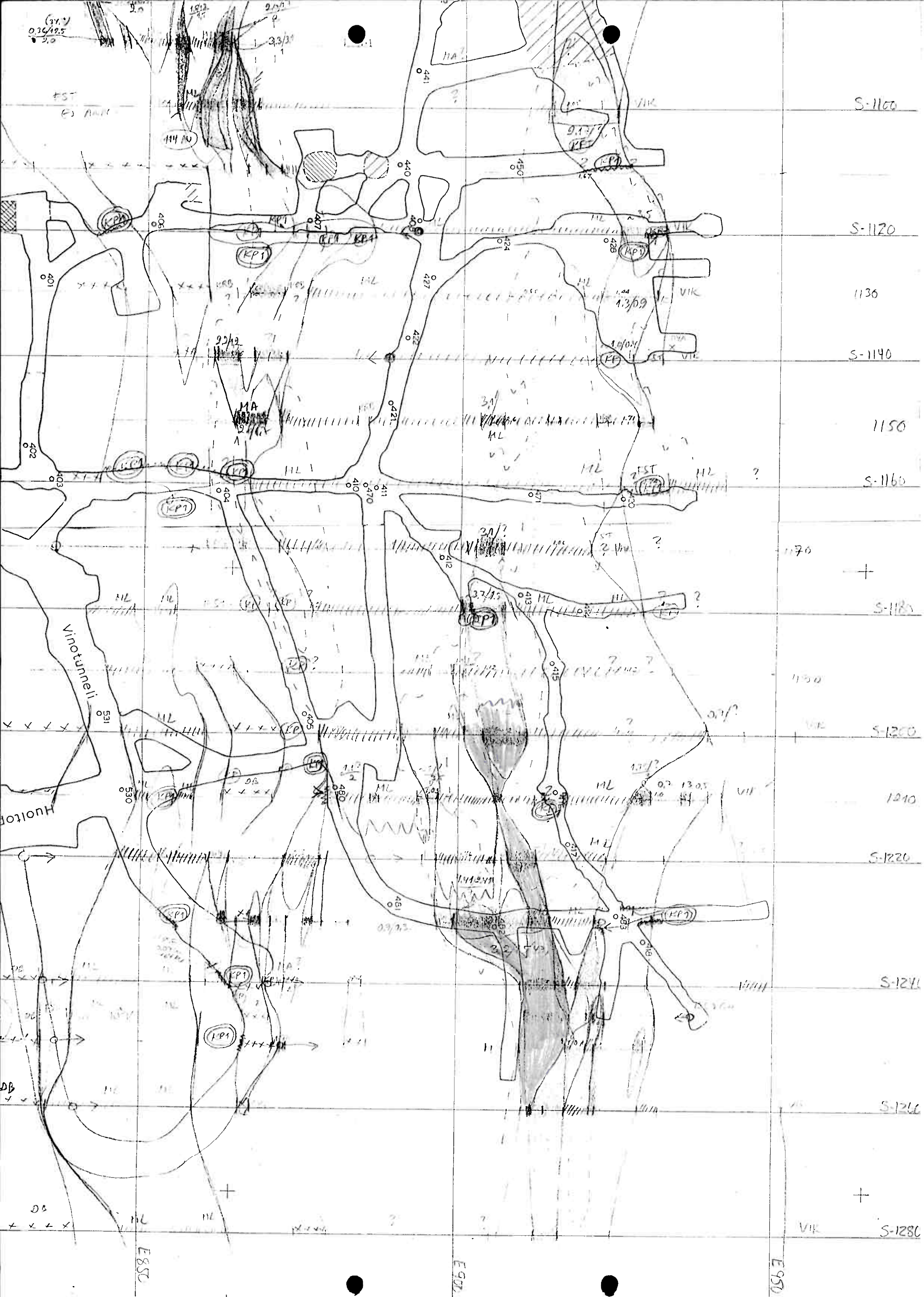
25.4.90 H/N/M/R

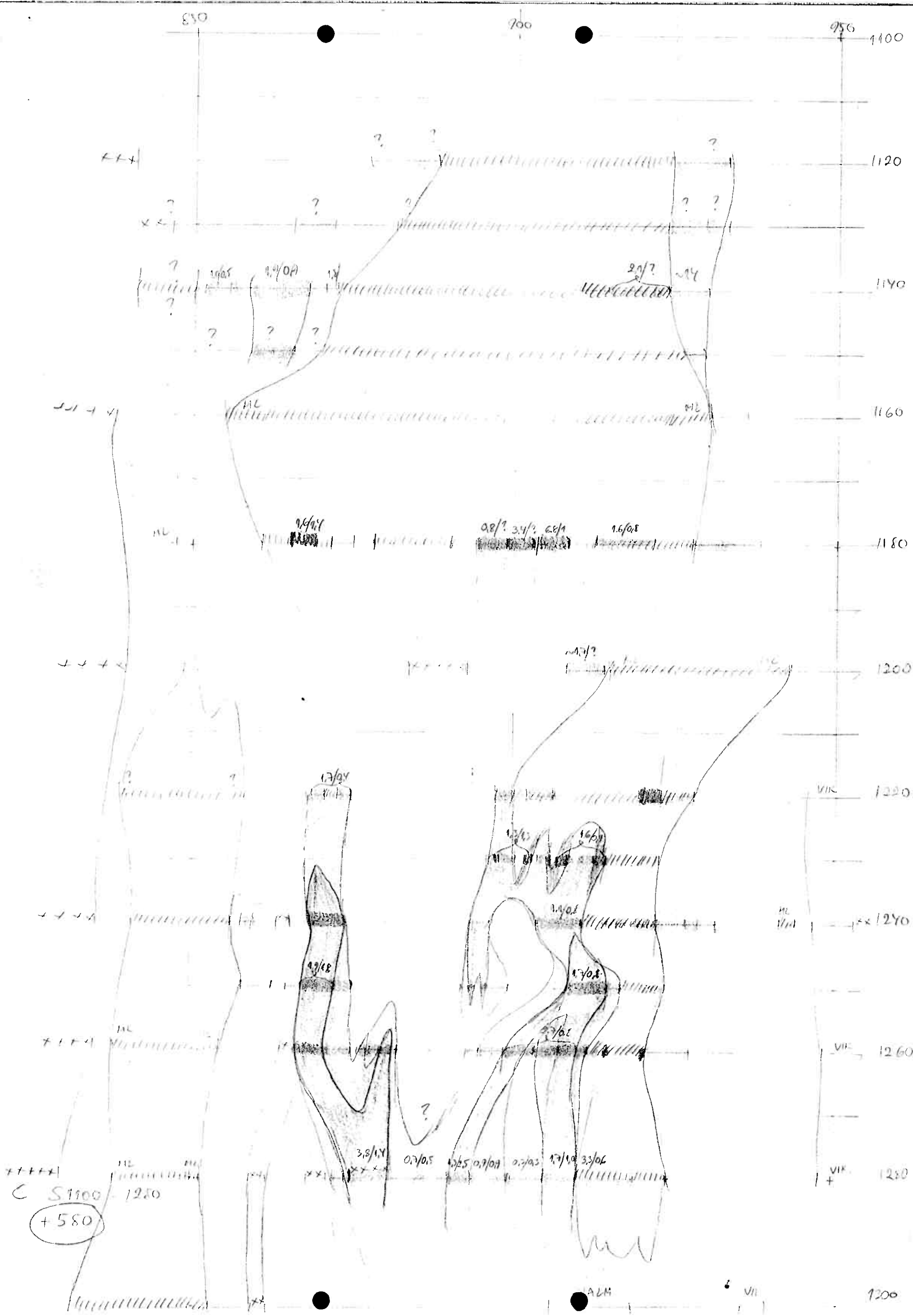
2, a 2.5

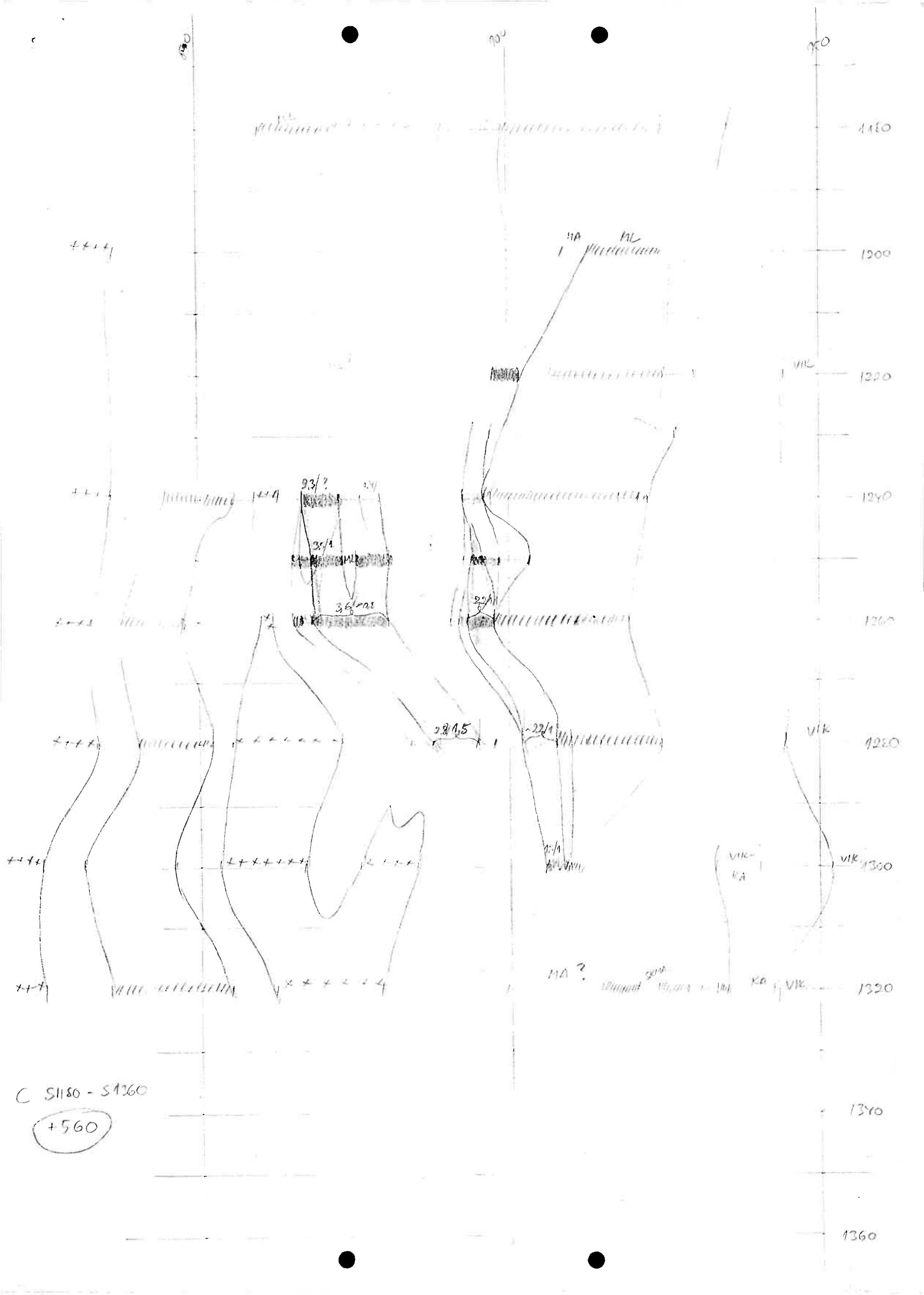
24.5.90 H/N

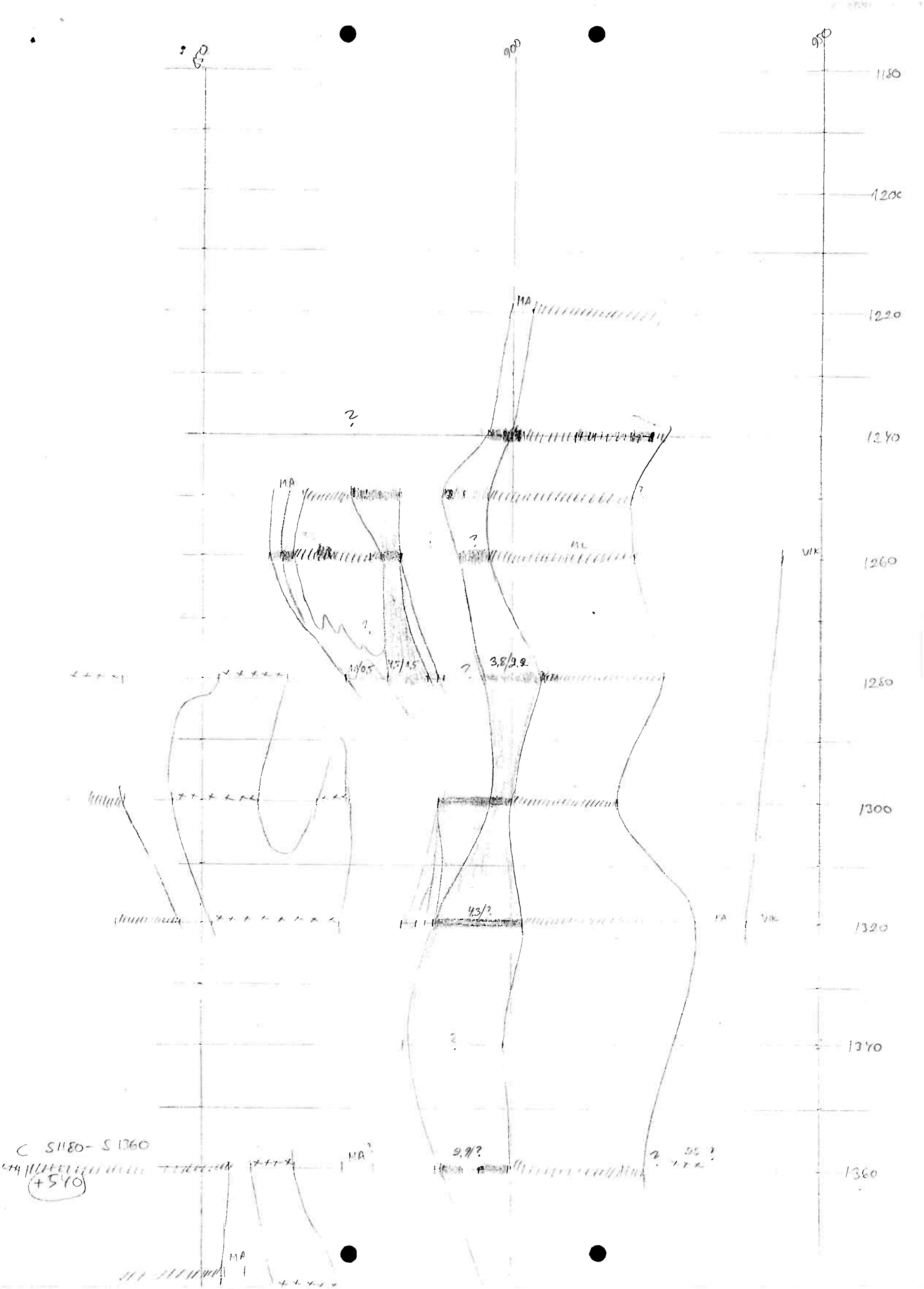
C-1 w/G.



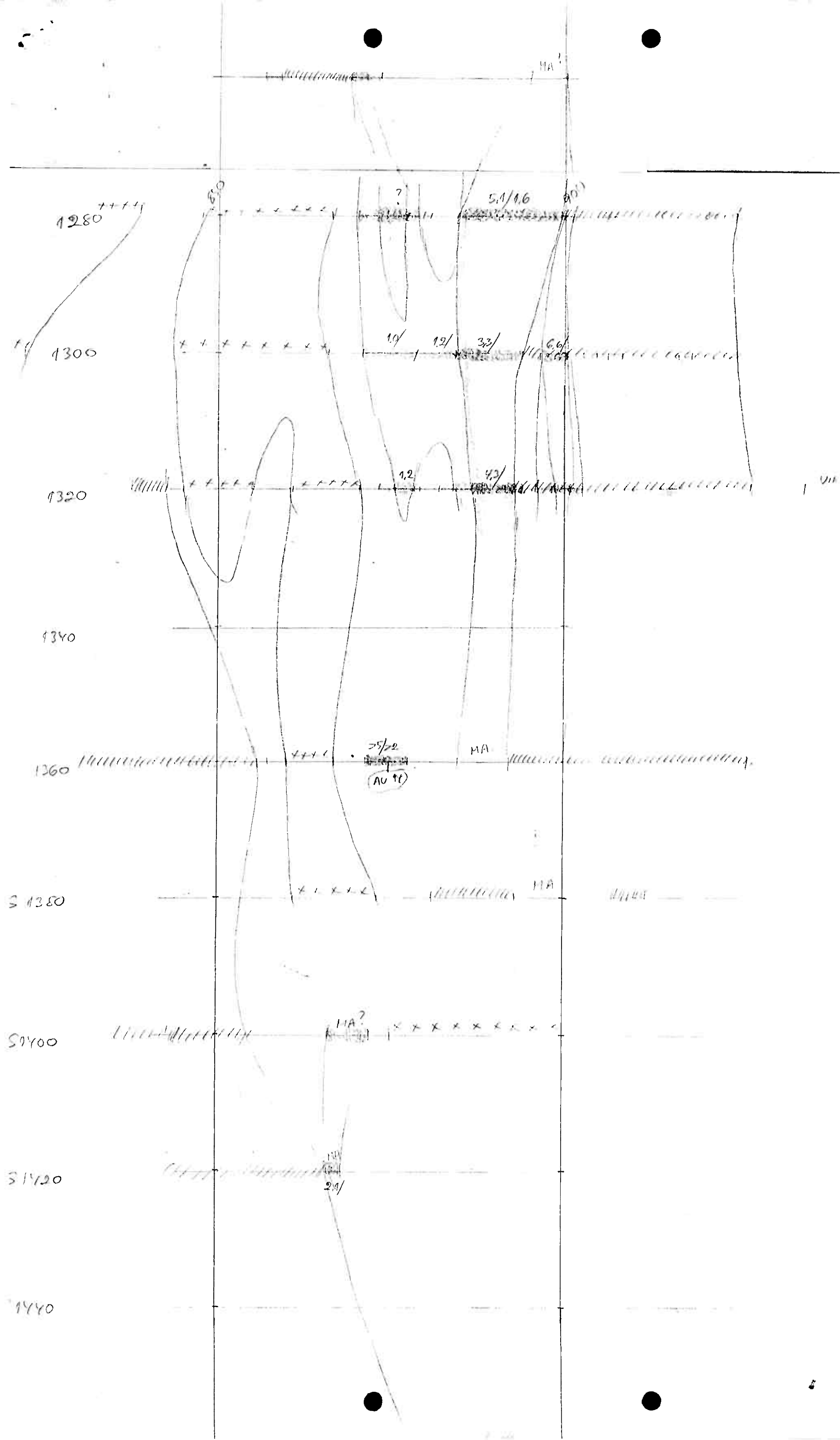


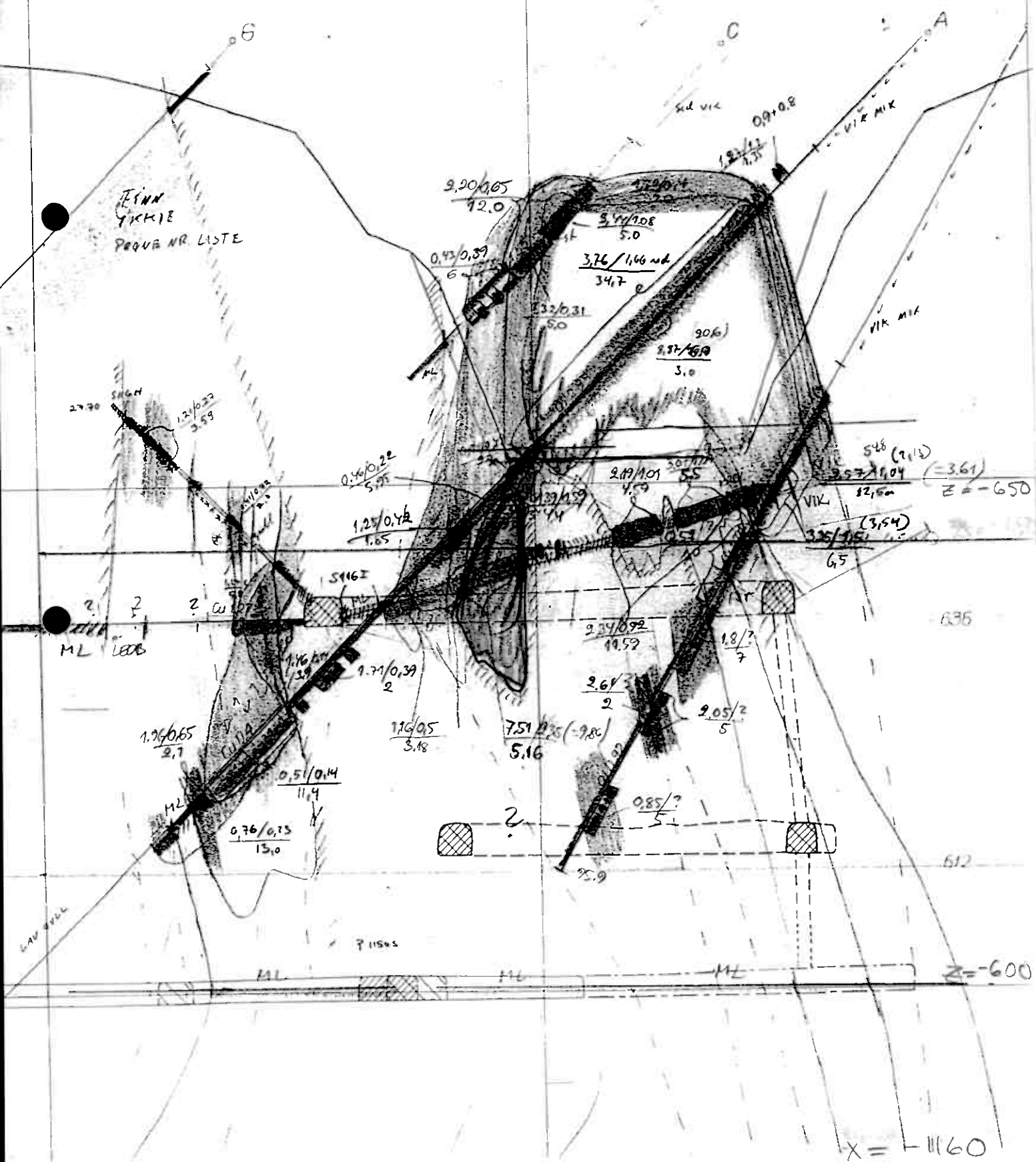






C 51180-5 1360
+540



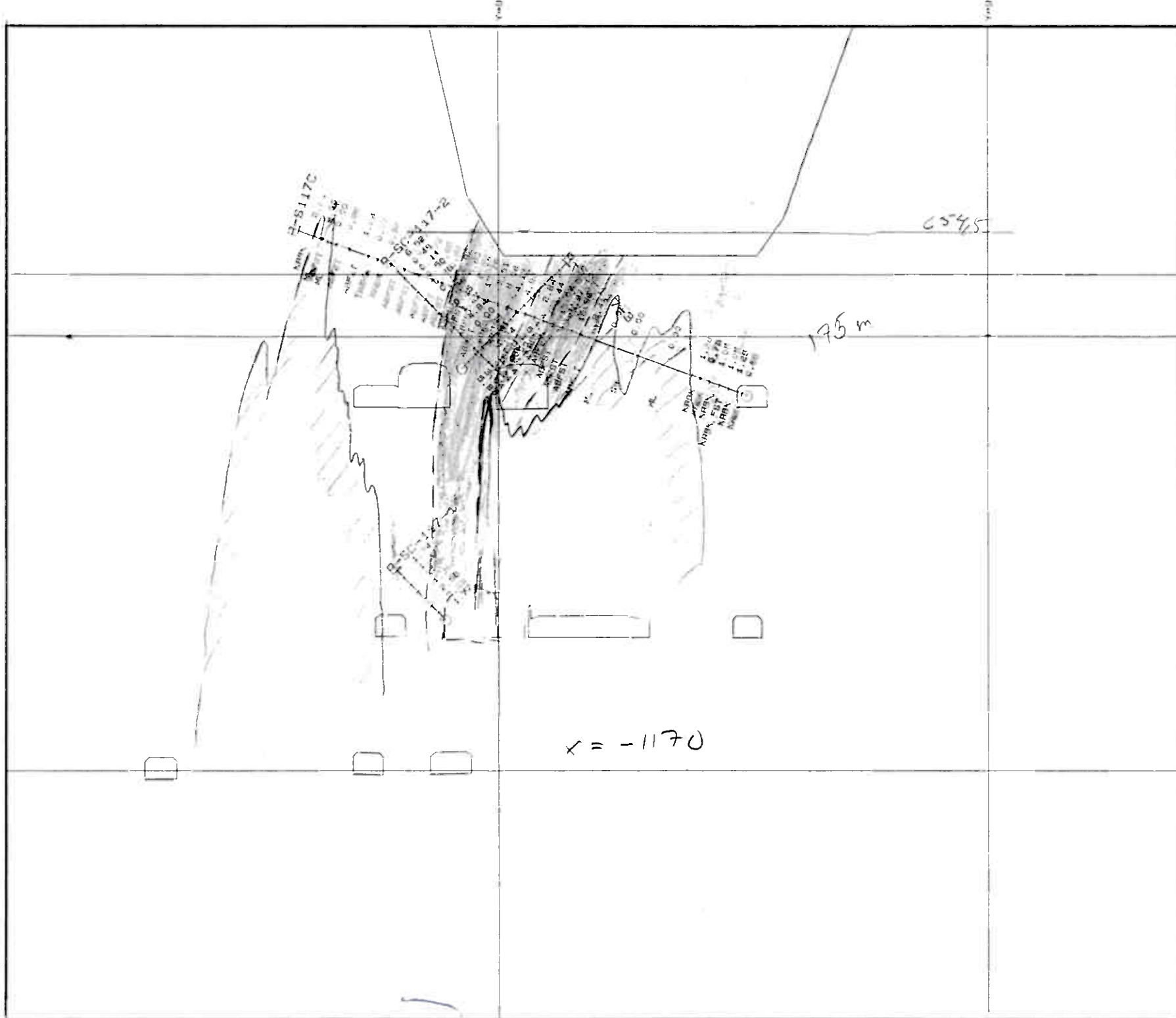


X=-1170
Y=850
Z=675

Z=850

Z=850

X=-1170
Y=850
Z=675



X=-1170
Y=850
Z=675

X=-1170
Y=850
Z=675

CODE HOLE				
	length	deviations, m		
		start	end	
R-51170	48.00	-0.15	-0.15	
R-51170-2	10.00	0.02	0.02	
R-51170-1	2.00	0.05	0.05	
R-51170-3	25.00	0.04	0.04	

DRILL HOLE PARAMETERS
Plotted

One value classed	the value	mk/ton
	below	0.50
	1.00	1.00
	1.50	2.50
	2.50 or over	

Projection distance front, m 5.00
back, m 5.00
Projection level, direction, on 100.00
slope, degree 90.00
Projection, direction, on 200.00
slope, degree 0.00

All the holes intersecting the projection level are drawn

☒	☒	☐	☐	☐	☐	☐	☒	☐
OP	SD	U	P	OR	AB	EX	ST	CL

BIDJOVAGGE		1.500
		10.000
X=-1170		

X=-1180
Y=000
Z=075

Z=075

X=-1180
Y=075
Z=075

CORE HOLES

	length	start	end
R-S1180	11.80	0.00	0.00
R-S1180	42.90	0.00	0.00
R-SC-118-3	15.00	0.00	0.00
R-SC-118-4	15.00	+0.40	+2.60
R-SC-118-2	2.00	0.00	0.00

DRILL HOLE PARAMETERS Plotted:

one value (m/tn)
one value classes: below 0.50
0.50 - 1.00
1.00 - 2.50
2.50 or over
Projection distance: front, m 5.00
back, m 5.00
Projection level: direction, gr 100.00
slope, degree 90.00
Projection: direction, gr 100.00
slope, degree 90.00
All the holes intersecting the
projection level are drawn

☒ ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐
OJ SD S P CR RB EX OS ON

BIDJOVASSE

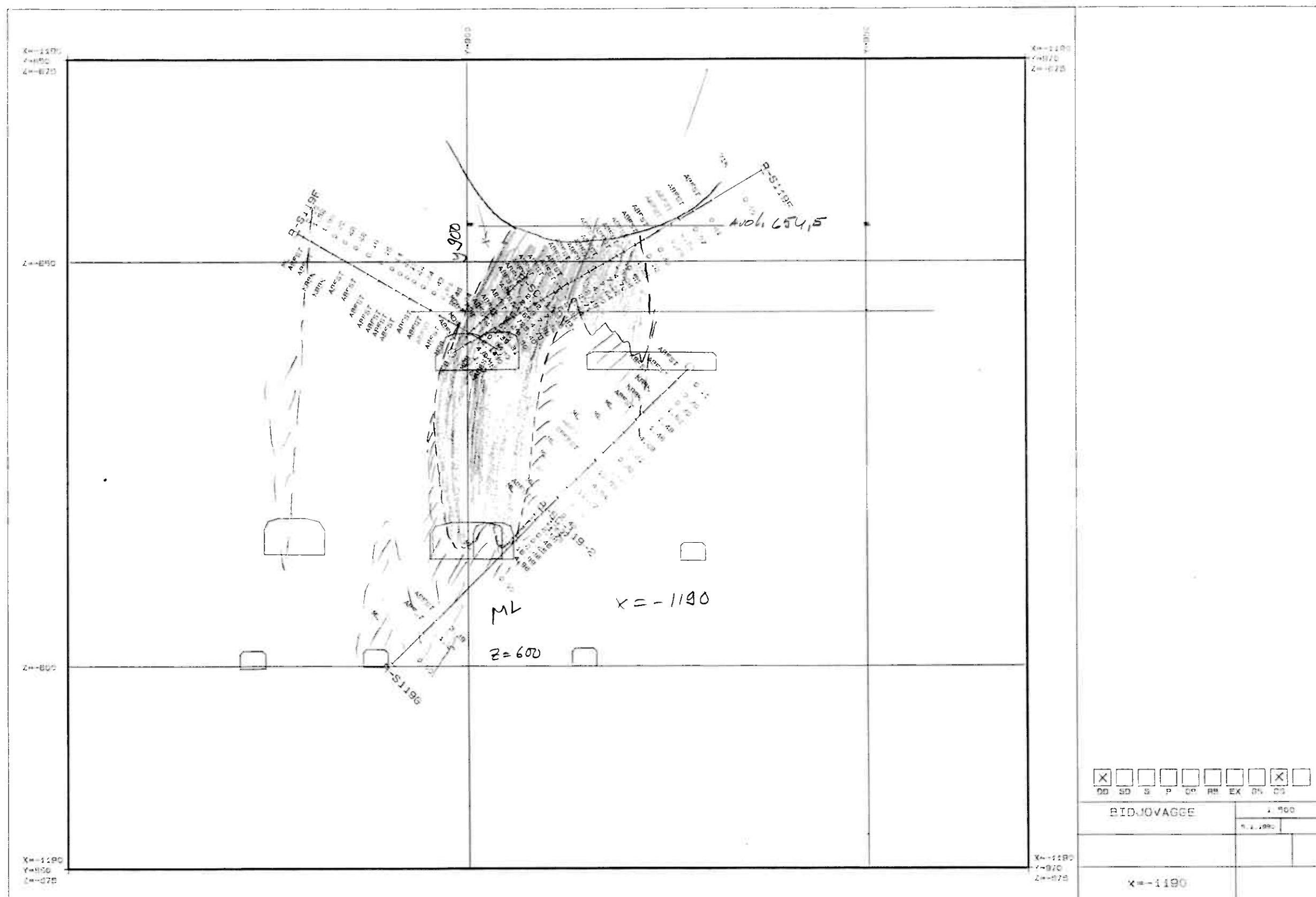
1.500

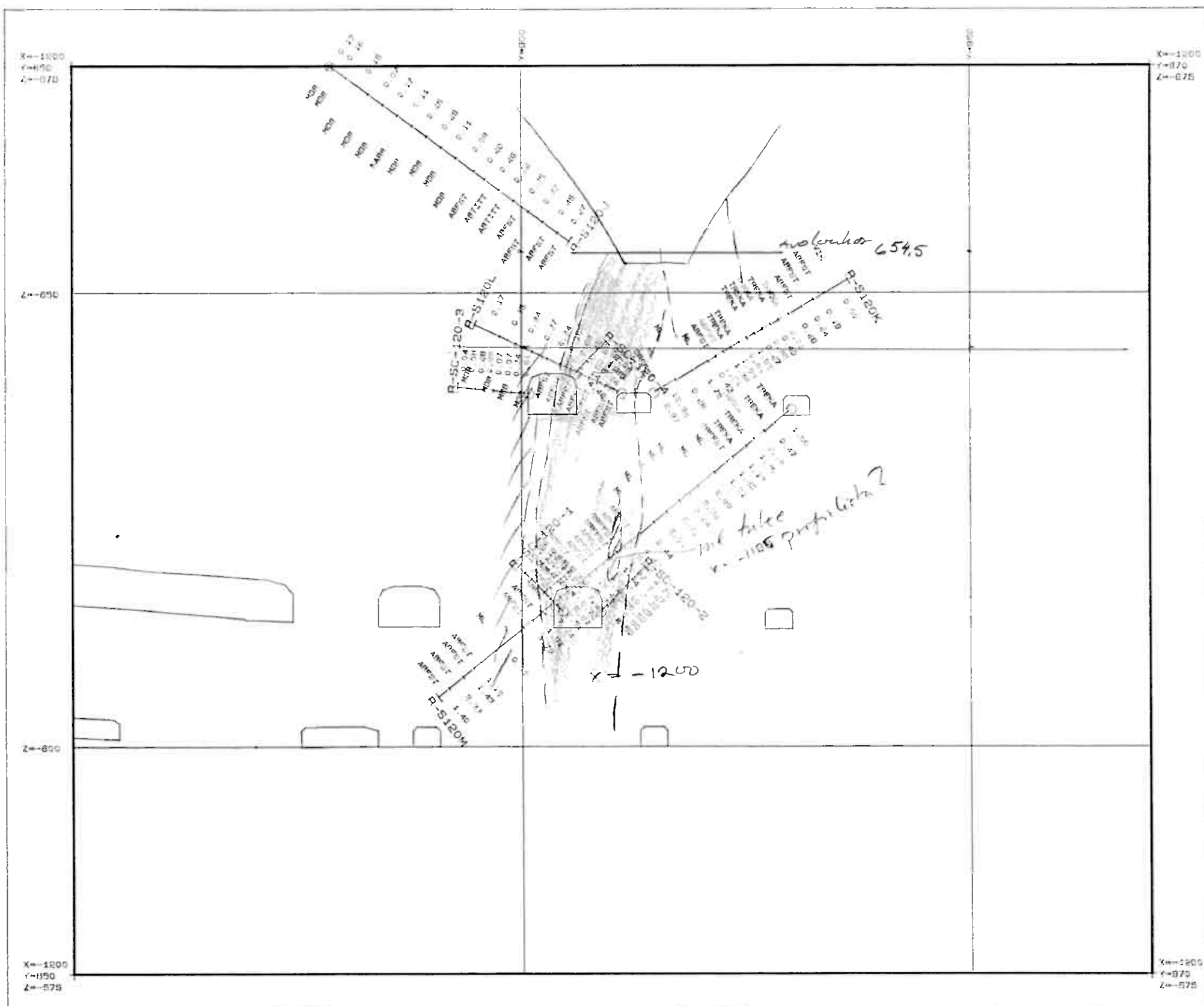
0.1.000

X=-1180

DRILL HOLE PARAMETERS Plotted:

one value (value/tn)
one value classes: below 0.50
0.50 - 1.00
1.00 - 2.50
2.50 or over
Projection distance: front, m 5.00
back, m 5.00
Projection level: direction, gr 100.00



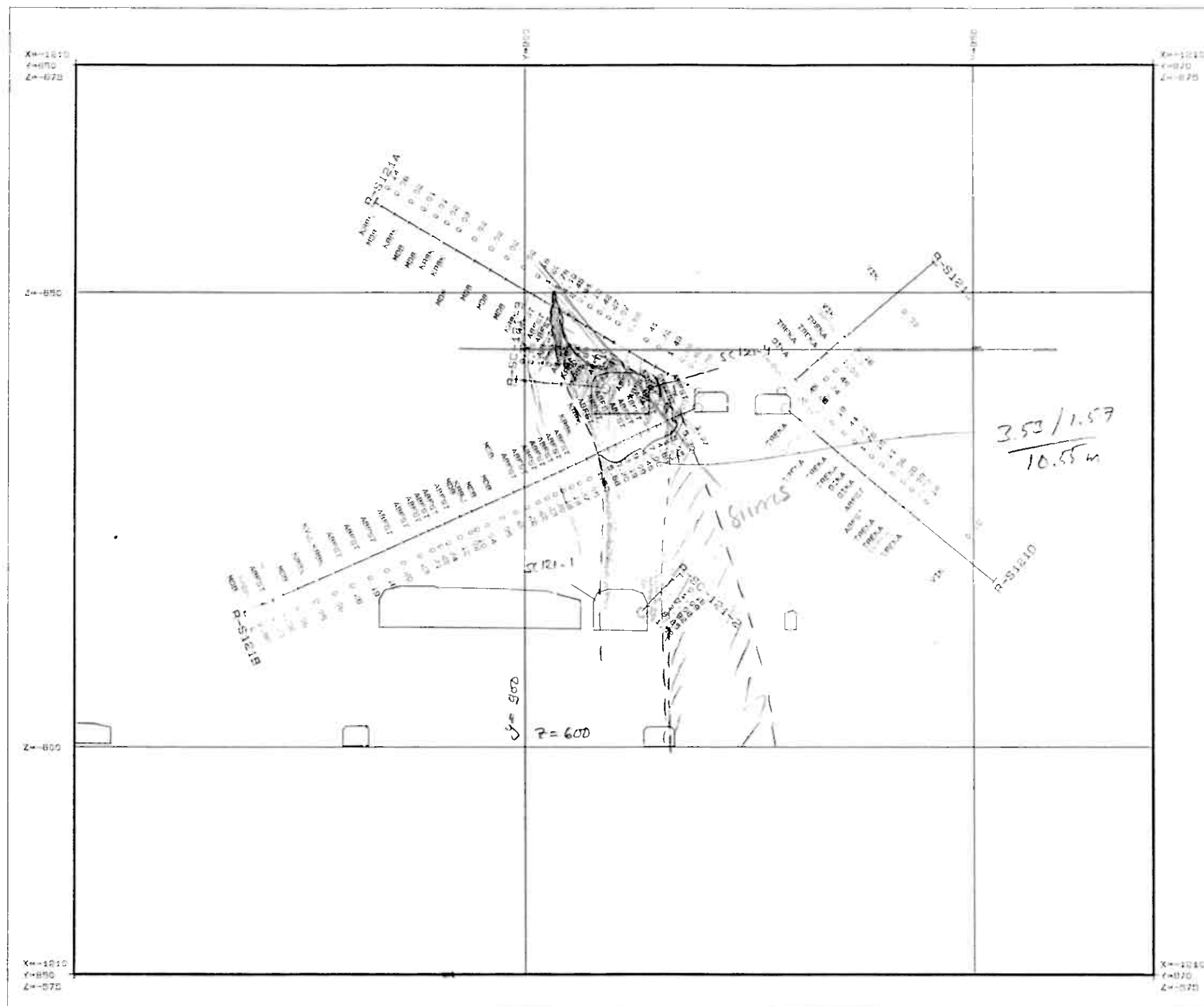


DRILL HOLE	length	deviation	end
R-SC-120-4	5.00	+0.10	+0.10
R-SC-120-5	7.00	0.00	0.00
R-SC-120-6	25.00	-0.10	-0.10
R-SC-120-7	18.00	0.01	0.01
R-SC-120-8	50.00	-0.10	-0.10
R-SC-120-9	8.00	0.00	0.00
R-SC-120-10	7.00	0.00	0.00

DRILL HOLE PARAMETERS:
 Plotted:
 one value (gk/tn)
 one value classes: below 0.50
 0.50 - 1.00
 1.00 - 2.50
 2.50 or over
 Projection distance: front, m 0.00
 back, m 0.00
 Projection level: direction, on 100.00
 slope, degree 90.00
 Projection: direction, on 200.00
 slope, degree 0.00
 All the holes intersecting the
 projection level are drawn.

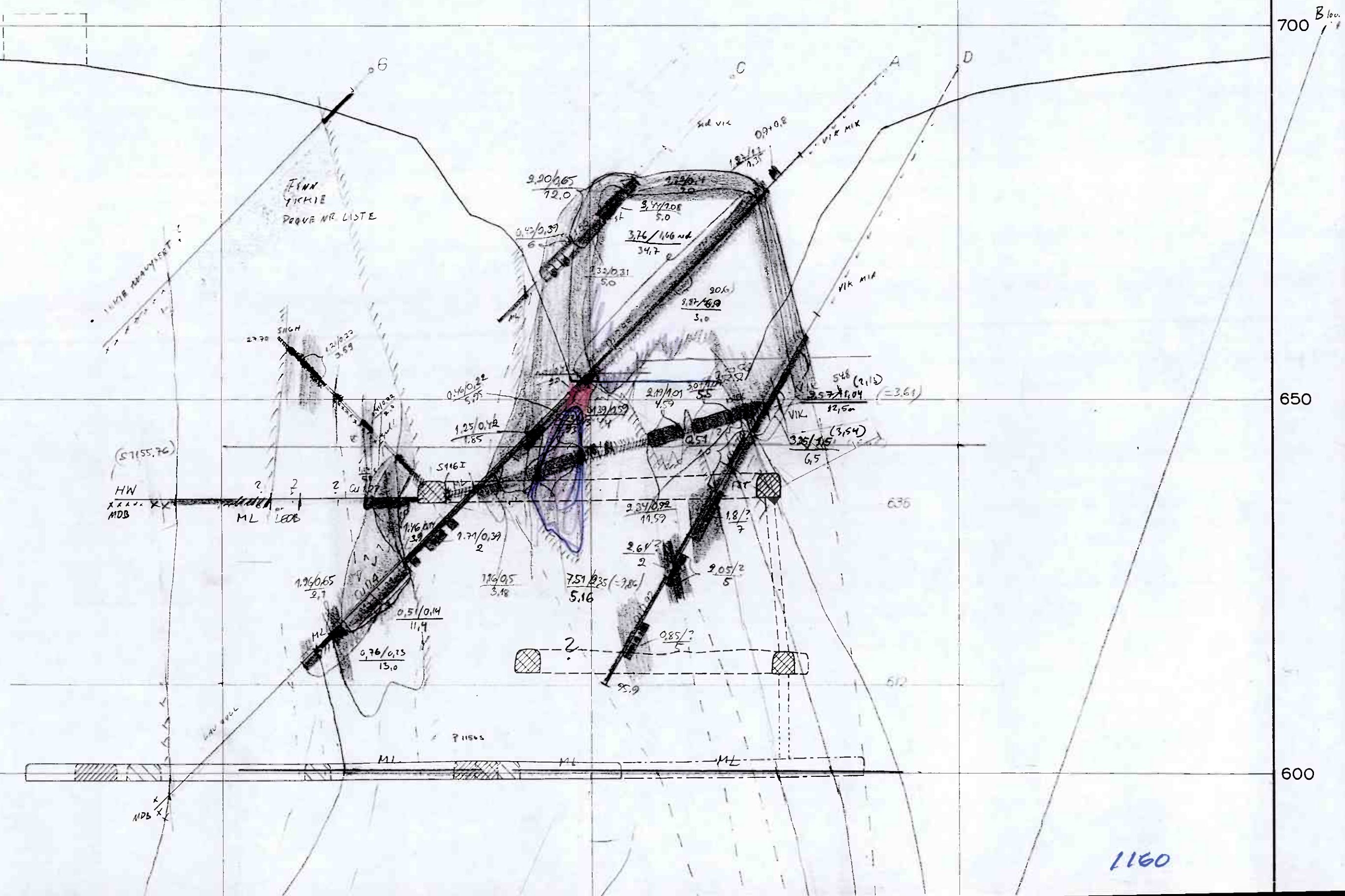
☒ DD
 ☐ SB
 ☐ S
 ☐ P
 ☐ CB
 ☐ RB
 ☐ EX
 ☐ ON
 ☒ ON

BIDJOVAGGE	1.500
	0.1.000
x-1200	



☒	☐	☐	☐	☐	☐	☐	☐	☒	☐
DD	DD	S	P	DB	RB	EX	DI	DI	
BIDJOVAGGE								1.900	
								11.4.1995	
x=-1210									

Y 63700



Geol. Univ. 19

C-pohja S1165 - 1205

4/7-91

IN SITU ORE RESERVE ESTIMATION

4.7.1991

polygons: s_m_cuau_2.5_1
profile : x=-1200 - -1170
codes : 1

profile intersection	length	cu	au	area m2	density	projection range	tons
x=-1200	8.00	4.35	0.80	101	2.700	10.0	2737 -1000
x=-1190	39.54	3.30	1.06	130	2.700	10.0	3516
x=-1180	26.70	6.24	1.25	158	2.700	10.0	4274
x=-1170	34.00	2.68	0.94	167	2.700	10.0	4507
total	128.24	4.14	1.03	557	2.7000	40.0	15034

IN SITU ORE RESERVE ESTIMATION

4.7.1991

profile: x=-1200 - -1170
codes: 1

limit	tons	cu	au
cu > 5.00	4274	6.24	1.25
4.00 < cu < 5.00	2737	4.35	0.80
2.50 < cu < 4.00	8023	2.95	0.99
cu < 2.50	0		
total	15034	4.14	1.03

d 2.85

→ 14814 ton
Cu 4.1 %
(Au 1.0 g/t

Au > 1.5 g/t → 1.5 g/t

+ tillkommer

X. ton Norr om S1165

C-broth bottle

1165-1148

IN SITU ORE RESERVE ESTIMATION

15.7.1991

H. Ash

polygons: s_m_cuau_2.3_1
profile: x=-1160 - -1150
code: 1

profile intersection	length	cu	au	area m2	density	projection range	tons
x=-1160	8.46	6.59	1.48	28	2.700	11.0	845
x=-1150	3.90	3.18	1.19	115	2.700	6.0	1864
total	12.36	4.25	1.28	144	2.7000	17.0	2709

2.85

2,850

IN SITU ORE RESERVE ESTIMATION

15.7.1991

profile: x=-1160 - -1150
codes: 1

limit	tons	cu	au
cu > 5.00	845	6.59	1.48
4.00 < cu < 5.00	0		
2.50 < cu < 4.00	1864	3.18	1.19
cu < 2.50	0		
total	2709	4.25	1.28

2850 ton

Au > 1.5 ppm $\Rightarrow$ 1.5 ppm.

C-pohja S1165-1205

IN SITU ORE RESERVE ESTIMATION

4.7.1991

polygons: s_m_cuau_2.5_1
profile : x=-1200 - -1170
codes : 1

profile intersection		cu	au	area	density	projection	tons
	length			m2		range	
x=-1200	8.00	4.35	0.80	101	2.700	10.0	2737 -1000
x=-1190	39.54	3.30	1.06	130	2.700	10.0	3516
x=-1180	26.70	6.24	1.25	158	2.700	10.0	4274
x=-1170	54.00	2.95	0.94	167	2.700	10.0	4507
total	128.24	4.14	1.03	557	2.7000	40.0	15034

IN SITU ORE RESERVE ESTIMATION

4.7.1991

profiles: x=-1200 - -1170
codes: 1

limit	tons	cu	au
cu > 5.00	4274	6.24	1.25
4.00 < cu < 5.00	2737	4.35	0.80
2.50 < cu < 4.00	8023	2.95	0.99
cu < 2.50	0		
total	15034	4.14	1.03

d 2.85

→ 14814 ton
Cu 4.1 %
(Au 1.0 g/t)

Au > 1.5 g/t → 1.5 g/t

+ tillkommer

X ton Norr om S1165

2-636

1-500

-1140

-1150

-1160

-1170

-1180

-1190

-1200

-1210

-1220

-1230

048

058

060

016

22.6.91

Jukka Oja

-1156.9 900.0 637.7
 -1159.5 899.1 637.4
 -1160.0 899.5 637.4
 -1165.2 904.9 637.5
 -1170.0 905.8 638.1
 -1176.5 907.3 637.4
 -1180.0 906.96 637.56
 -1187.1 907.1 635.6
 -1190.0 908.1 635.8
 -1192.7 897.3 637.4

HI-FLEX oy

Lampelankatu 4, 96320 ROVANIEMI
 Puh. 960-318 990
 Telefax 960-318 993

-1150.0 873.38 637.33
 -1160.0 871.26 636.9
 -1160.0 882.07 636.99
 -1159.380 894.015 637.30
 -1153.4 891.0 637.2
 -1150.0 891.9 637.46
 -1148.5 892.2 637.6
 -1148.0 896.3 637.6
 -1150.0 896.68 637.66
 -1150.0 880.3 637.16

HI-FLEX oy

Lampelankatu 4, 96320 ROVANIEMI
 Puh. 960-318 990
 Telefax 960-318 993



MUISTA!

LETKUJA JOKA KÄYTTÖÖN

-1200.7 900.2 636.5
 -1211.7 901.6
 -1210.0 901.0 637.4
 -1228.4 904.0 637.5
 -1221.2 903.4 637.11
 -1220.0 902.8 637.2
 -1221.6 910.9 637.5
 -1220.0 915.5
 -1220.0 915.6 637.24
 -1212.5 915.6 637.4
 -1210.0 916.7 637.2
 -1206.7 916.4 638.8
 -1200. 917.8 636.2

HI-FLEX oy

Lampelankatu 4, 96320 ROVANIEMI
 Puh. 960-318 990
 Telefax 960-318 993

-1192.9 912.2 634.7



MUISTA!

LETKUJA JOKA KÄYTTÖÖN

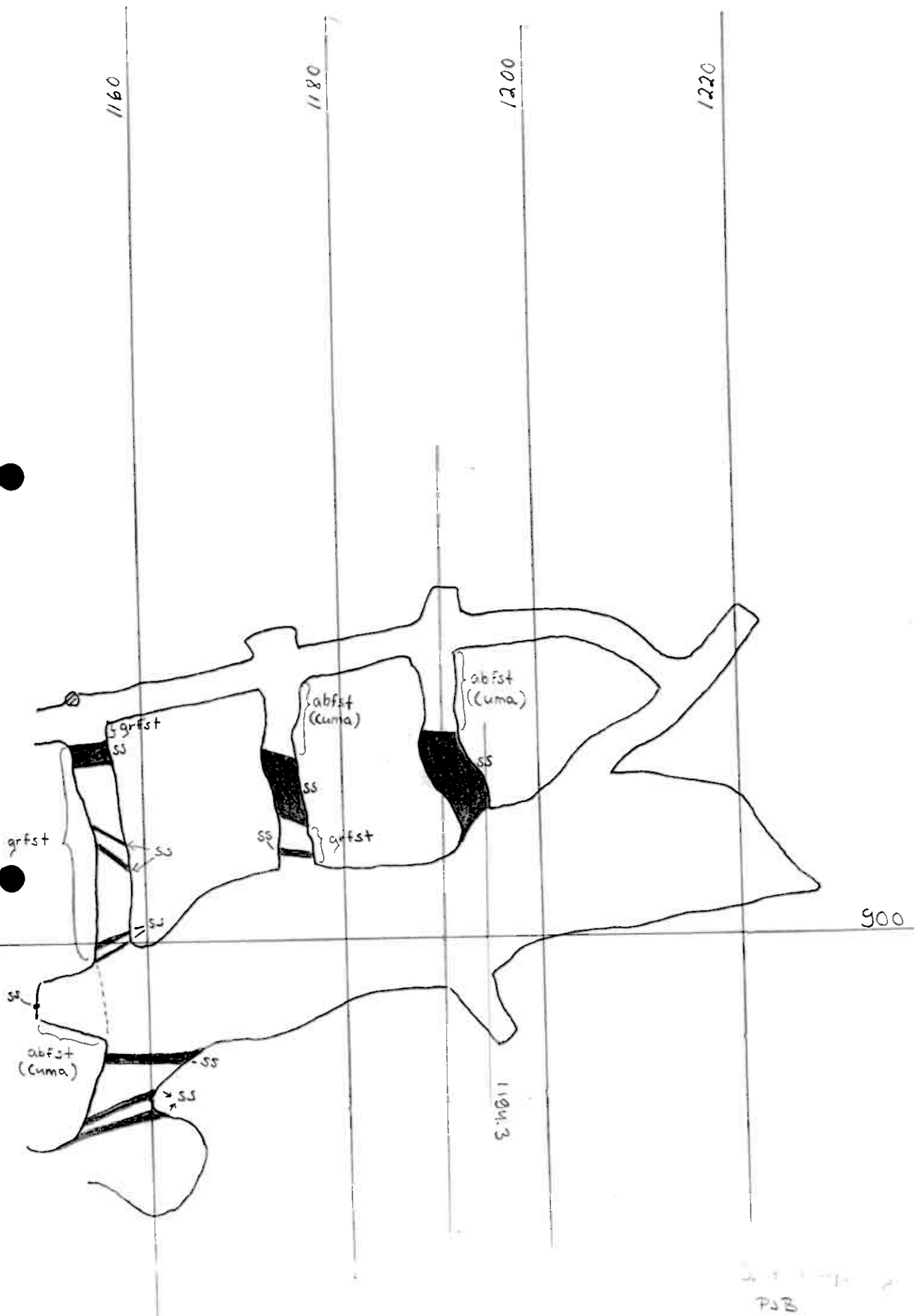
-1197.8 899.3 635.8
 -1193.8 896.4
 -1190.0 895.3 636.2
 -1180.6 894.6 636.3
 -1180.0 894.1 636.4
 -1175.5 891.9 636.8
 -1170.0 889.9 636.4
 -1166.66 890.6 636.9
 -1160.0 886.1 637.5
 -1161.9 887.5

-1208.729 905.913
 637.222

HI-FLEX oy

Lampelankatu 4, 96320 ROVANIEMI
 Puh. 960-318 990
 Telefax 960-318 993

387.9238



753

C1-aval.

1220

1200

1180

1160

1220

1200

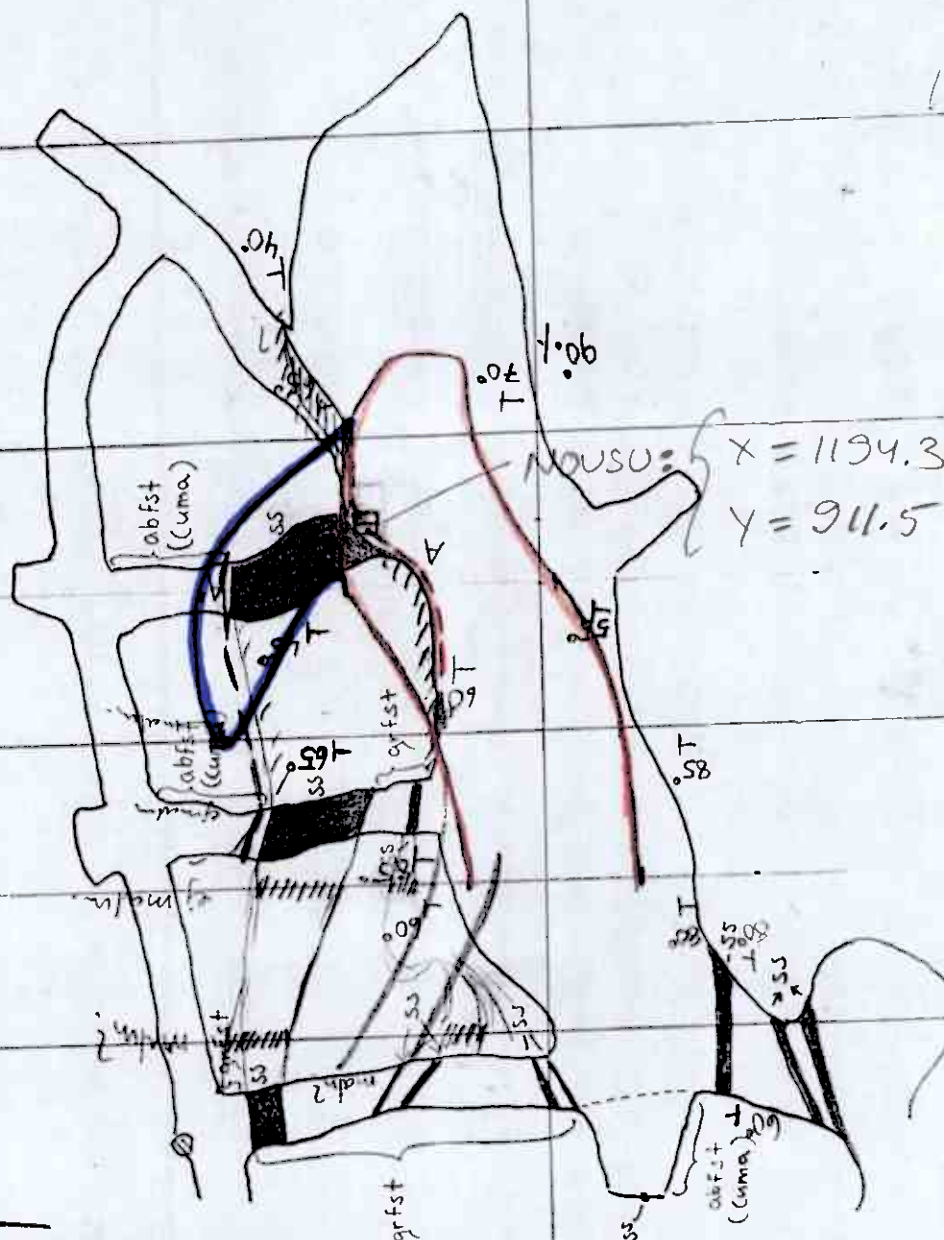
1180

1160

1140

Vana LPI

643
TAK
MIDA

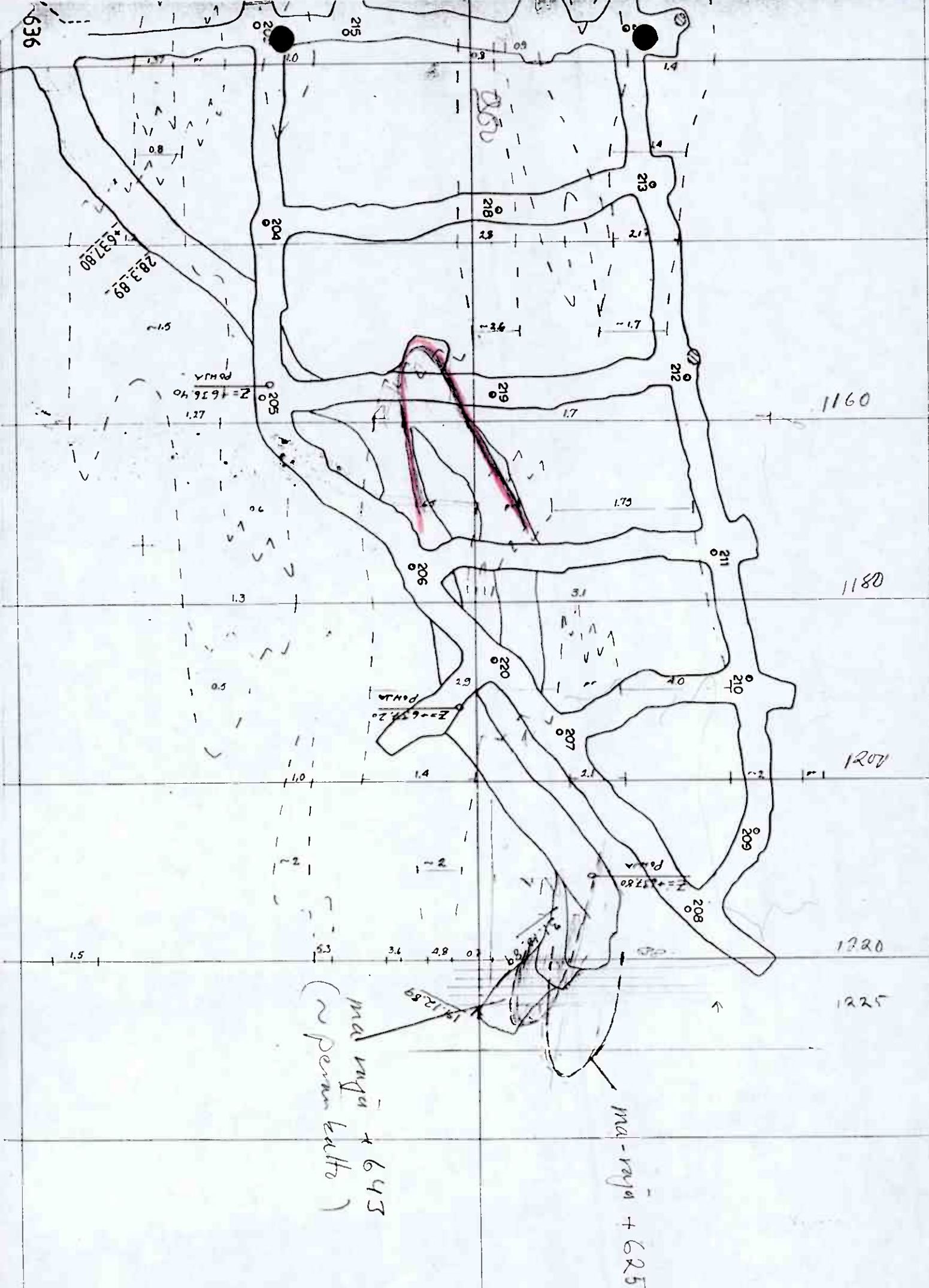


TASO +636

1:500

5.7.21 EP

636



28.3.89
+637.80

POHJA
Z = +639.40

POHJA
Z = +637.20

POHJA
Z = +637.80

ma-ryga + 645
(peran kulta)

ma-ryga + 625

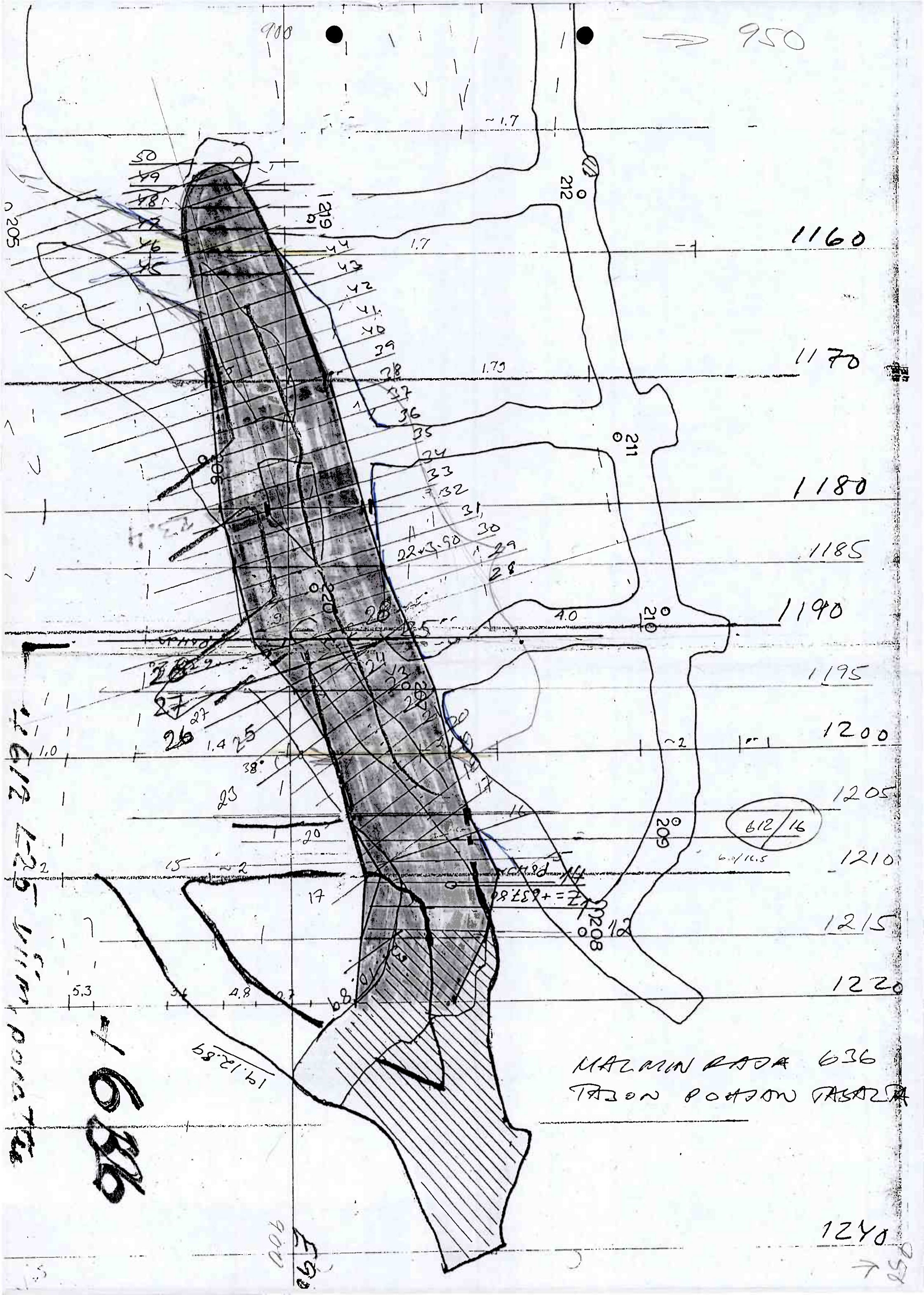
1160

1180

1200

1220

1225

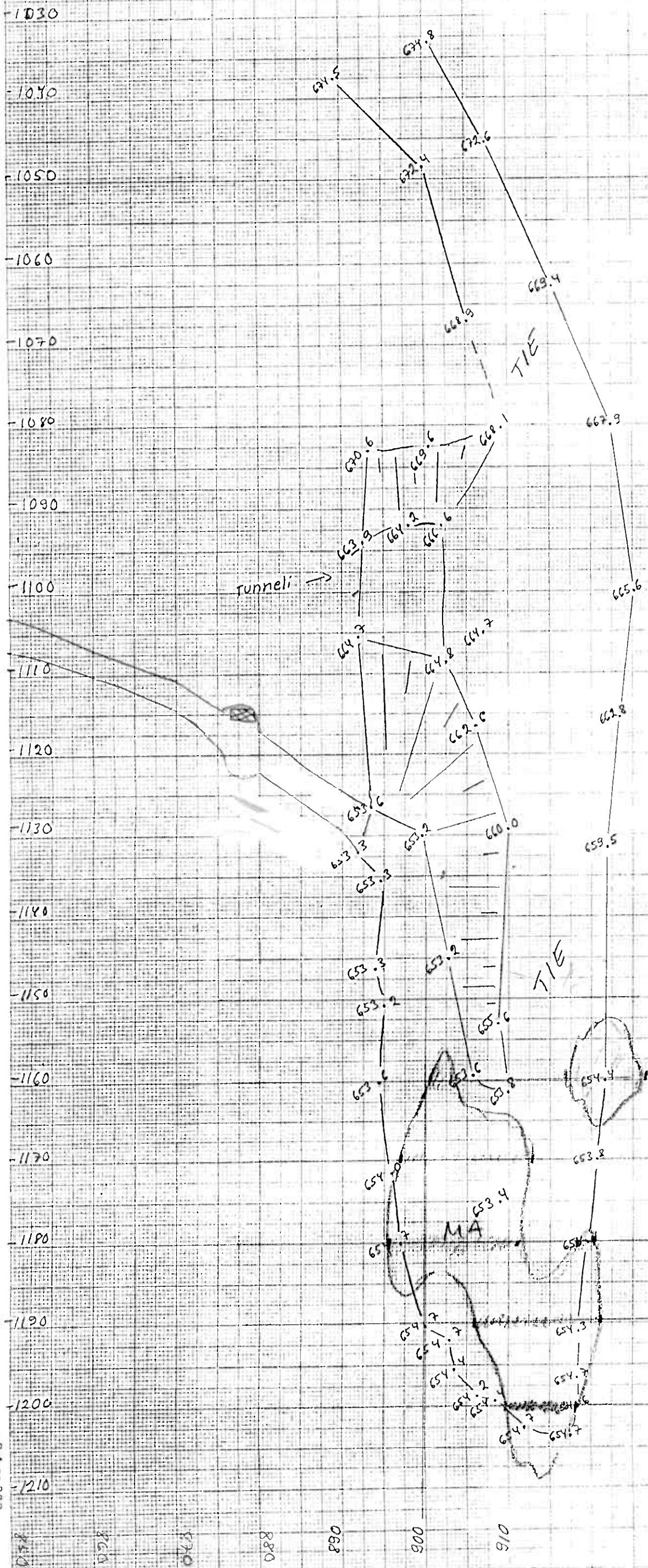


612 1-25 with portable

636

MAZMIN RADA 636
TASON RASHON RASAR

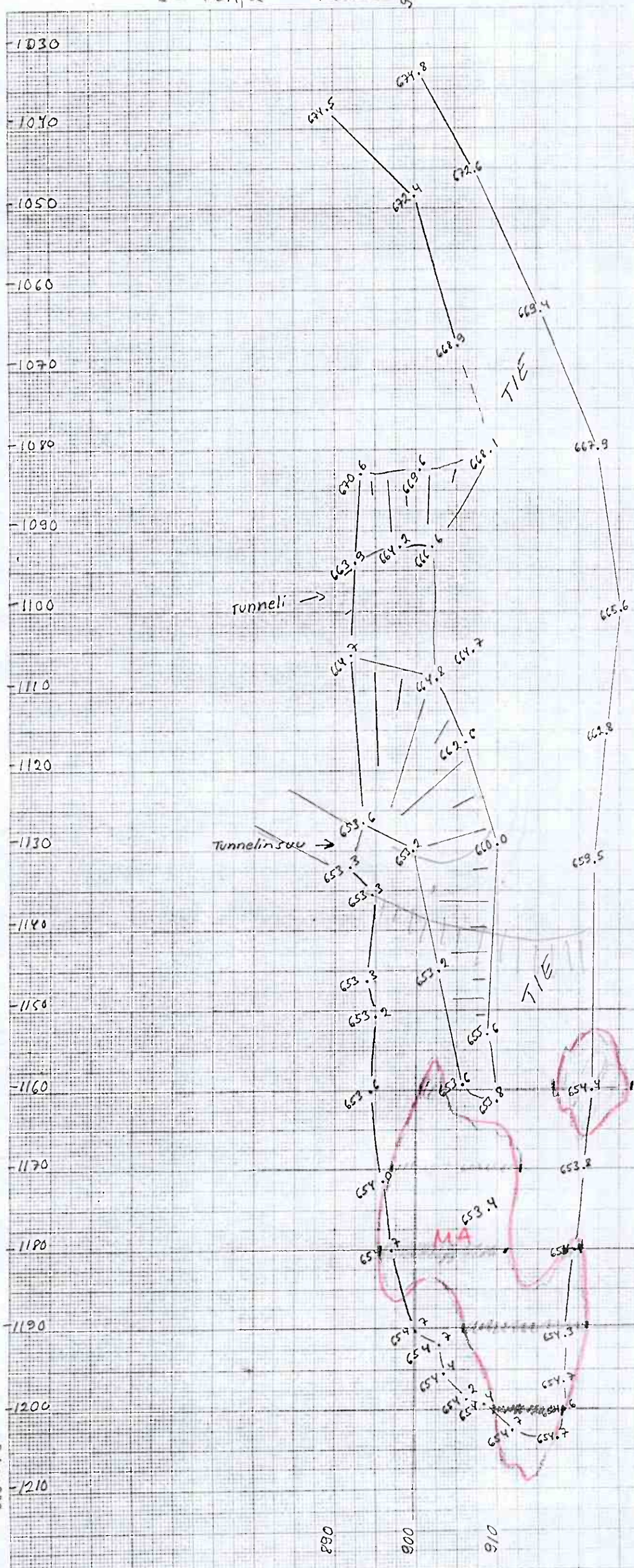
1240
→ 250



C-avol.

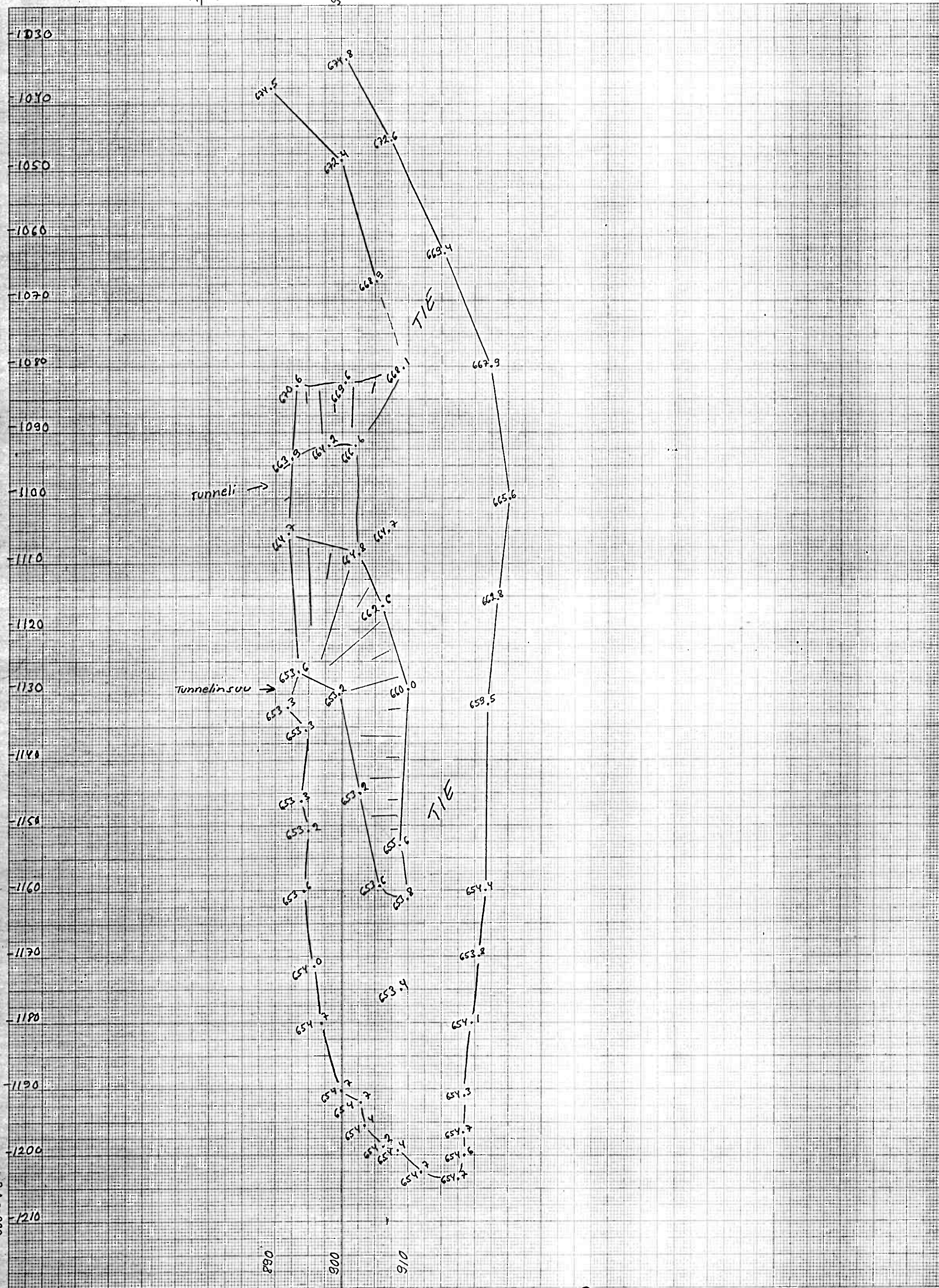
660
653.3
6.7

1:500

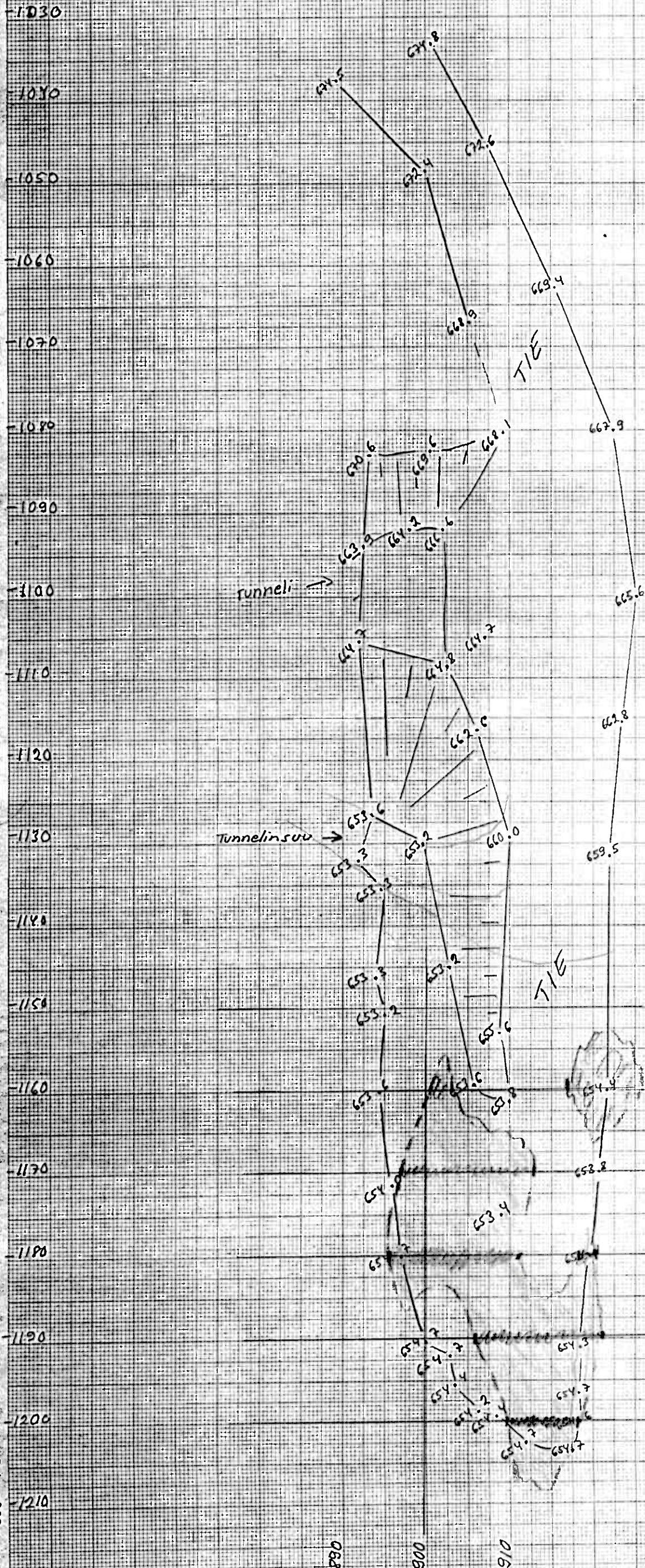


C-avol.

1:500







653.4

104th, Sweden.

united

minutes

Työmaa

AEI

Päivämäärä

Kellonaika

Kentät

N=13

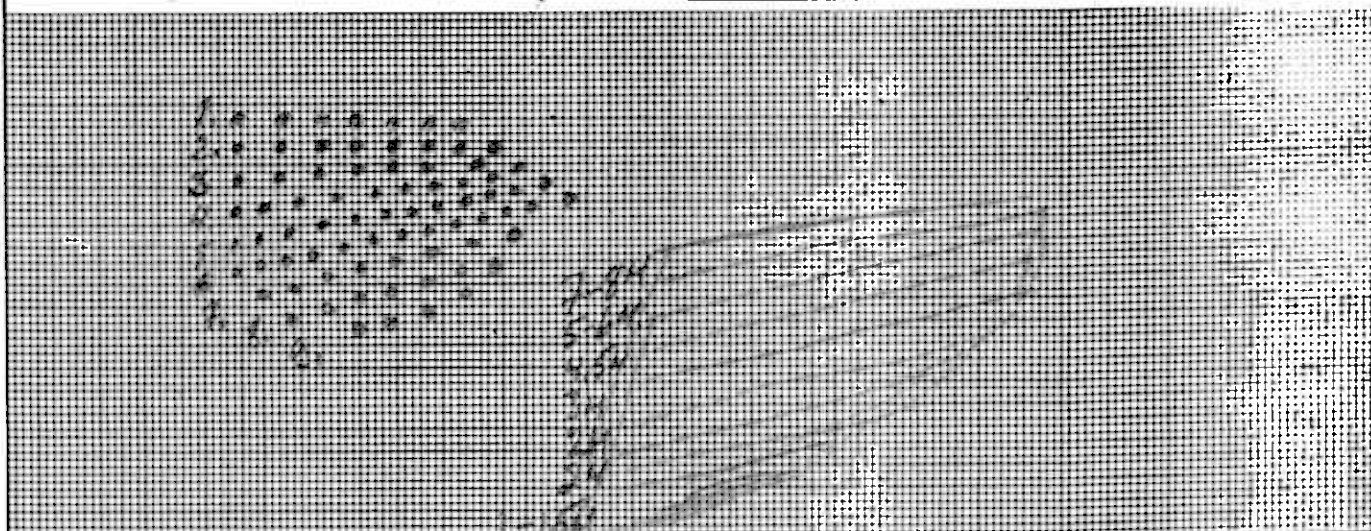
PORAUS- JA SYTYTYSKAAVIO

Etu

m

Reikäväli

m



Nä- lit L/P	Reiän syvyys m	Pohjapanos <i>Dynex</i>			I Varsipanos <i>Dynex</i>				II Varsipanos <i>Dynex</i>				Reikä- panos kg	Reikien luku- määrä	Pora- metrejä	Panos/ nalli no kg
		m	kpl	kg	m	kpl	kg/m	kg	m	kpl	kg/m	kg				
1	7.8	1.2	2	3.2	4.8	2	10.4		1	1	1	14.6	7	56		
2	5.6	1.2	2	3.2	2.4	3		3.9	1	1	1	6.1	8	48		
3	4.5	1.2	2	3.2	2	2.5		3.0	1	1	1	5.2	7	31.5		
4	3	0.60	1	1.6	1.2	2		2.6				4.2	10	30		
5	2	0.30	1	0.8	0.60	1		1.3	0.3	1	0.3	2.4	12	24		
6	2	0.30	1	0.8	0.60	1		1.3	0.3	1	0.3	2.4	13	26		
7	1.5	0.30	1	0.8	0.60	1		1.3	0.3	1	0.3	2.4				
8	1.5	0.30	1	0.8	0.30	1		0.6	0.3	1		1.7	18	27		
9	1	0.30	1	0.8					0.3	1		1.1				

Suunniteltu räjäytysaika

1) Mom. räjähdysainemäärä kg

2) Porametri/kenttä

242.5

Suunnitelman laatijan allekirjoitus

3) Räjähdysainemäärä kg/kenttä

4) Kentän tilavuus m³

Panostajan allekirjoitus

5) Ominaispanostus kg/m³ 1/4

6) Ominaisporaus m/m³ 1/4

Työmaa

Lemminkäinen Oy
AEI

Päivämäärä

9.8.91

Kellonaika

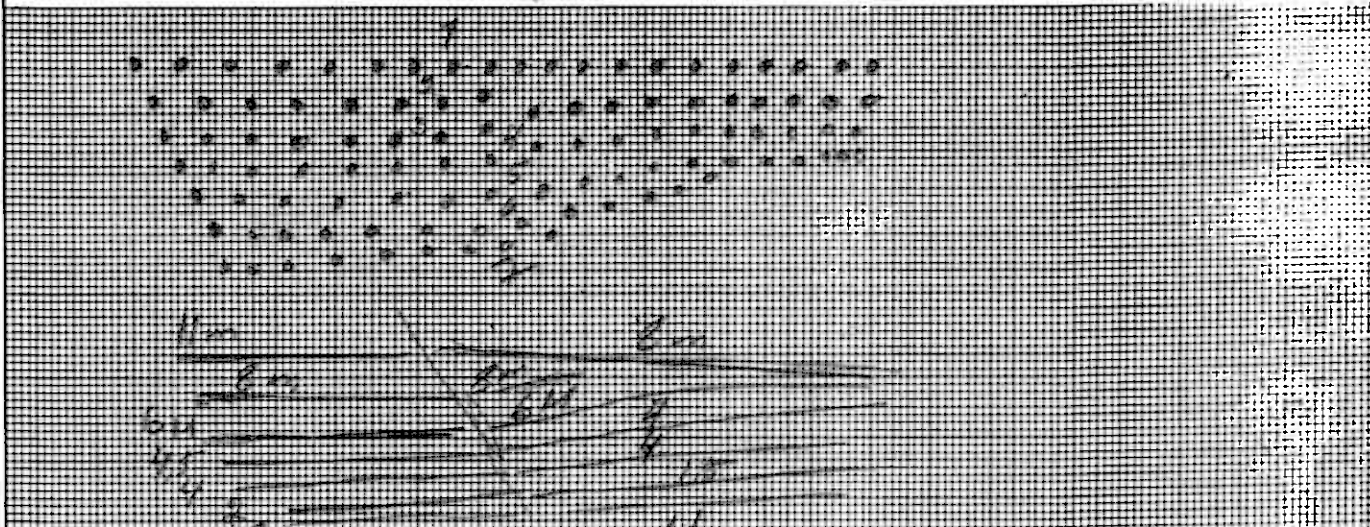
Kentät

2

PORAUS- JA SYTYTYSKAAVIO

Etu 2-1,5 m

Reikäväli 3-2 m



Nal- lit L/P	Reiän syvyys m	Pohjapanos/reikä			I Varsipanos				II Varsipanos				Reikä- panos kg	Reiän luku- määrä	Pora- metrejä	Panos/ nalli no kg
		m	kpl	kg	m	kpl	kg/m	kg	m	kpl	kg/m	kg				
1.	8-12	0,6	1	1,6	5-8	20	4	24	1	1	1	1	25	20	176	500
2.	8	0,6	1	1,6	5		4	20	1	1	1	1	21	8	64	160
3.	6	0,6	1	1,6	3,5		4	14	1	1	1	1	15	21	126	315
4.	4	0,6	1	1,6	1,5		4	5	1	1	1	1	6	22	90	110
5.	2	0,6	1	1,6					1	1	1	1	1,6	24	51	42
6.	1,7	0,6	1	1,6					1	1	1	1	1,6	12	20	21
7.	1								1	1	1	1		8	11	8
8.																

Suunniteltu räjäytysaika

1) Mom. räjähdysainemäärä kg

500

2) Porametri/kenttä

538

Suunnitelman laatijan allekirjottus

3) Räjähdysainemäärä kg/kenttä

1156

4) Kentän tilavuus m³

Panostajan allekirjottus

5) Ominaispanostus kg/m³ 2/4

6) Ominaisporaus m/m² 2/4

Työmaa

Paivamaara

Kellonaika

Kontakt

1

PORAUS- JA SYTYTYSKAAVIO

Etu

ה

Reikavall

[illegible]

Suunniteltu räjäytysaika

1) Mom. rājahdysainemāārā kg

Suunnitelman laatijan allekirjoitus

3) Rajahdysälnemäärä kg/kenttä

Panostajan allekirjoitus

5) Ominalspanostus $\text{kg/m}^3 \text{ }^{3/4}$

6) Ominalsporaus m/m³ 2/4

PORAUS- JA PANOSTUSSUUNNITELMA

Työmaa

Palvamaara

Kellonaika

Kentät

PORAUS- JA SYTYTYSKAAVIO

Etu

3

Reikavall

51

[illegible]

Suunniteltu räjäytysaika

1) Mom. rājahdysainemäärä kg

2) Parametri/kenttä

Suunnitelman laatijan allekirjoitus

3) Rajahdysainemäärä kg/kenttä

4) Kertan ilavus m³

Panostajan allekirjoitus

5) $\rho_{\text{min}} = 1000 \text{ kg/m}^3$

6) Ominalsporaus m/m³ 2/4

Turnover

$$S = -1/60$$

$$E = 900$$

Katonkorotus ajotunnelissa

Työ suoritetaan 19.4-20.4 alkaen 19.4 klo 7a

Michistö tji. Pitkysenra
porari: Soini
panostaja: Salpakari
lastari: ?

Ennakkoralmistelut:

1 Porausvirta 50m:n päähän aloitus-
pisteestä, työn tekee sähkömiehet
viikolla 16 niin, että työ on valmis
17.4. klo 19.00

2 Porausveden maahan urakoitsija,

4.4.91

TM

① HA, sähkömiehet, Lemminkäinen Oy

Katonkorotus ajokunneissa

Työ suoritetaan 19.4 - 20.4 alkaen 19.4 klo 7.00

Miehistö tji. Pikkupenra
porari, Sorini
panostaja, Salpakari
lastari, ?

Ennakkoralmistukset:

1 Porausvirta 50m:n päähän aloitus-
pisteestä, työn tekee sähkömiehet
viikolla 16 niin, että työ on valmis
17.4. klo 19.00

2 Porausveden maahan urakoitsija,

4.4.91

TM

HA, sähkömiehet, Lemminkäinen Oy

680

670

660

650

640

117

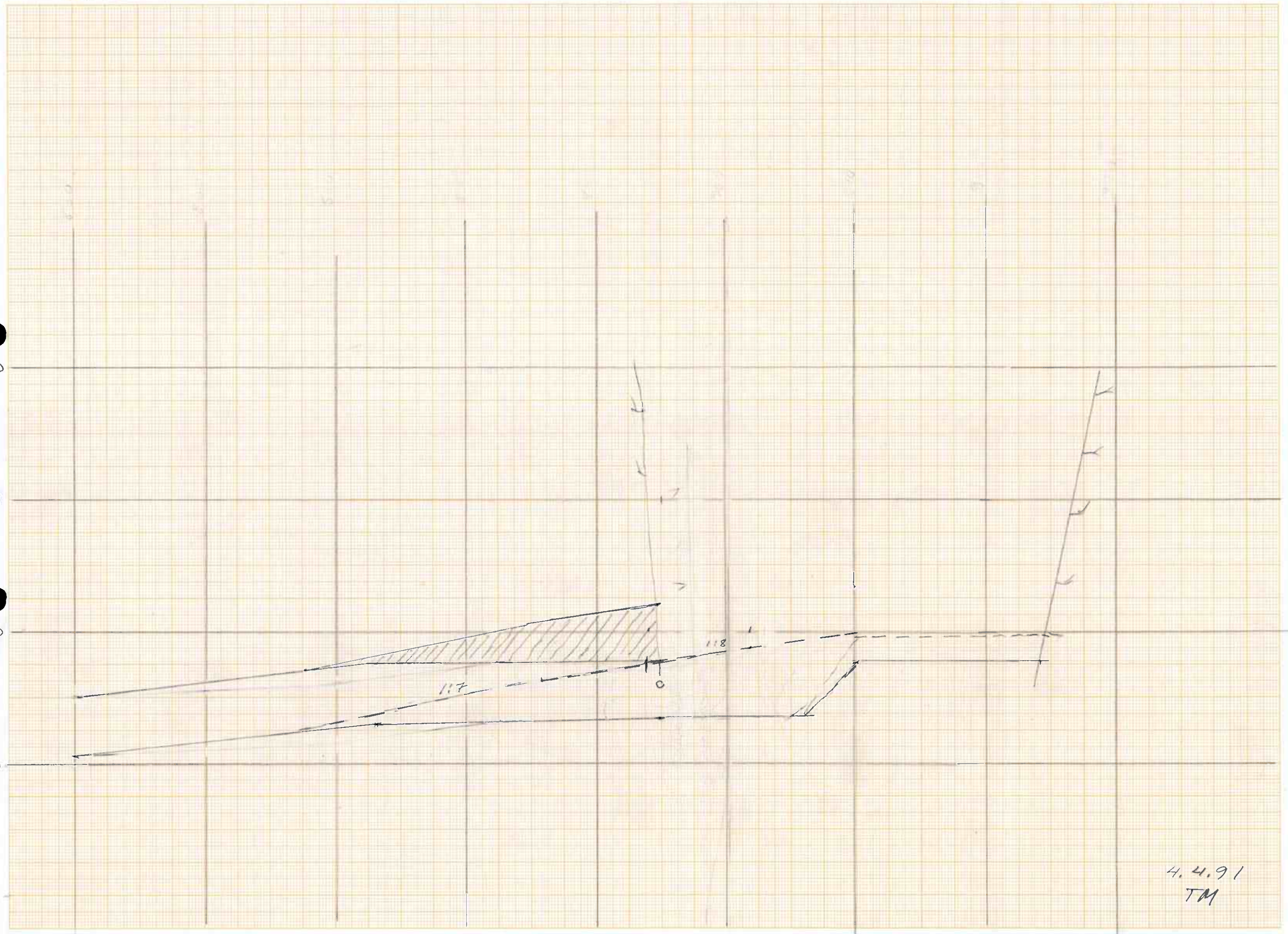
118

0

4.4.91
TM

A-A

1:250



680

670

660

650

117

118

0

4.4.91
TM

A-A

1:250

