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CROSS SECTION INDEX**N|V|5**

NV5 ENGINEERS & CONSULTANTS, INC.
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CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

-LWB-	X-1 THRU X-5
-L-	X-6 THRU X-28
-Y1-	X-29 THRU X-42
-Y1RPA-	X-43 THRU X-48
-Y1RPB-	X-49 THRU X-54
-Y1RPC-	X-55 THRU X-59
-Y1RPD-	X-60 THRU X-64
-Y1A-	X-65 THRU X-66
-Y2-	X-67 THRU X-86
-Y3-	X-87 THRU X-89
-DET1-	X-90 THRU X-101
-DET2-	X-102 THRU X-109
-L- (DETOUR)	X-110 THRU X-118
-Y1ROUND1-	X-119 THRU X-120
-Y1ROUND2-	X-121 THRU X-122
-Y3ROUND-	X-123 THRU X-124
-Y7-	X-125 THRU X-152
-Y1B-	X-153 THRU X-154
-DR1-	X-155 THRU X-158

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
R-5819 \ R-5820	X0-C

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Embt	Undercut	13+50.00	1	31	0	48+50.00	179	775	0	73+00.00	20	177	0
Y1ROUND2				14+00.00	2	64	0	49+00.00	255	579	0	73+50.00	32	196	0
CONTD	(cu. yd.)	(cu. yd.)	(cu. yd.)	14+50.00	1	36	0	49+50.00	327	415	0	74+00.00	21	152	0
11+63.36	0	681	0	15+00.00	1	36	0	50+00.00	285	257	0	74+17.90	0	33	0
11+88.36	0	1306	0	15+50.00	3	14	0	50+25.00	115	60	0				
12+13.36	0	1689	0	16+00.00	44	19	0	50+50.00	86	31	0	Station	Uncl. Exc.	Embt	Undercut
12+38.36	0	1594	0	16+18.71	31	8	0	51+00.00	87	53	0	Y2	(cu. yd.)	(cu. yd.)	(cu. yd.)
12+63.36	0	1239	0					51+50.00	2	38	0	74+41.90	0	0	0
12+88.36	0	1530	0					52+00.00	6	22	0	74+50.00	0	18	0
13+13.36	0	1531	0					52+50.00	7	17	0	74+75.00	0	66	0
13+26.73	0	647	0					53+00.00	3	26	0	75+00.00	0	112	31
				Station	Uncl. Exc.	Embt	Undercut	53+50.00	0	34	0	75+50.00	0	191	66
Y1RPD	(cu. yd.)	(cu. yd.)	(cu. yd.)	Y2	(cu. yd.)	(cu. yd.)	(cu. yd.)	54+00.00	0	36	0	76+00.00	4	153	76
19+19.53	0	0	0	28+10.00	0	0	0	54+50.00	29	50	0	76+50.00	10	147	91
19+25.00	31	22	11	28+50.00	1	13	0	55+00.00	45	62	0	77+00.00	13	145	109
19+50.00	60	100	44	29+00.00	2	30	0	55+50.00	0	31	0	77+50.00	14	141	122
19+77.74	48	114	47	29+50.00	1	27	0	56+00.00	0	62	0	78+00.00	14	139	130
20+00.00	20	94	34	30+00.00	4	41	0	56+50.00	0	54	0	78+50.00	19	139	134
20+50.00	27	230	53	30+50.00	12	88	0	57+00.00	0	65	0				
20+75.00	7	123	17	31+00.00	11	176	0	57+50.00	0	83	0	Station	Uncl. Exc.	Embt	Undercut
21+00.00	4	124	0	31+50.00	13	292	0	58+00.00	0	86	0	Y3	(cu. yd.)	(cu. yd.)	(cu. yd.)
21+50.00	0	303	0	32+00.00	10	431	0	58+50.00	0	92	0	13+40.00	0	0	0
21+57.74	0	50	0	32+50.00	0	647	0	59+00.00	0	98	0	13+50.00	5	0	0
22+00.00	0	379	0	33+00.00	0	927	0	59+50.00	0	98	0	14+00.00	13	6	0
22+50.00	0	483	0	33+50.00	0	1226	0	60+00.00	0	94	0	14+50.00	5	7	0
23+00.00	0	587	0	34+00.00	0	1556	0	60+50.00	0	87	0	15+00.00	6	6	0
23+50.00	0	707	0	34+50.00	0	1944	0	61+00.00	0	70	0	15+50.00	5	20	0
24+00.00	0	820	0	34+61.55	0	513	0	61+50.00	0	59	0	16+00.00	0	51	0
24+50.00	0	957	0	35+00.00	0	1812	0	61+75.00	0	30	0	16+07.89	0	11	0
25+00.00	0	1099	0	35+50.00	0	2931	0	62+00.00	44	31	0	16+50.00	0	87	0
25+50.00	0	1219	0	36+00.00	0	3536	0	62+50.00	156	86	0	16+61.48	0	30	0
26+00.00	0	1357	0	36+29.15	0	2334	0	63+00.00	135	93	0				
26+50.00	0	1530	0	36+50.00	0	1792	0	63+25.00	34	37	0				
26+90.83	0	1349	0	37+00.00	0	4731	0	63+50.00	0	33	0	Station	Uncl. Exc.	Embt	Undercut
27+00.00	0	1679	0	37+50.00	0	5339	0	64+00.00	0	63	0	Y3	(cu. yd.)	(cu. yd.)	(cu. yd.)
27+50.00	0	1635	0	38+00.00	0	5819	0	64+50.00	0	57	0	18+01.48	0	0	0
28+00.00	0	1563	0	38+50.00	0	6166	0	65+00.00	0	56	0	18+25.00	0	41	0
28+50.00	0	1592	0	38+93.34	0	5547	0	65+50.00	0	64	0	18+50.00	0	44	0
28+70.83	0	691	0					65+75.00	0	40	0				
29+00.00	0	983	0	Station	Uncl. Exc.	Embt	Undercut	66+00.00	0	164	119	19+00.00	0	94	0
29+50.00	0	1172	0	Y2	(cu. yd.)	(cu. yd.)	(cu. yd.)	66+50.00	0	336	239	19+25.00	0	30	0
30+00.00	0	1494	0	42+37.17	0	0	0	67+00.00	31	356	243	19+50.00	0	11	0
30+28.03	0	1323	0	42+50.00	0	1618	0	67+25.00	31	183	122	20+00.00	3	16	0
30+50.00	0	901	0	43+00.00	0	6058	0	67+50.00	30	192	121	20+50.00	5	6	0
31+00.00	0	2373	0	43+50.00	0	5490	0	67+75.00	30	201	120	21+00.00	5	1	0
31+33.25	0	2013	0	44+00.00	0	4837	0	68+00.00	28	90	0	21+23.00	3	0	0
				44+50.00	0	4184	0	68+50.00	35	196	0				
Y1A	(cu. yd.)	(cu. yd.)	(cu. yd.)	Station	Uncl. Exc.	Embt	Undercut	69+00.00	15	229	0	Station	Uncl. Exc.	Embt	Undercut
11+97.00	0	0	0	45+00.00	0	3583	0	69+50.00	10	262	0	DET1	(cu. yd.)	(cu. yd.)	(cu. yd.)
12+50.00	6	16	0	45+50.00	0	3050	0	70+00.00	14	229	0	10+50.00	0	0	0
13+00.00	1	39	0	46+00.00	0	2556	0	70+50.00	24	183	0	10+85.73	1	1	0
13+25.00	1	28	0	46+50.00	0	2094	0	71+00.00	27	174	0	11+00.00	1	1	0
				47+00.00	131	1679	0	71+50.00	24	172	0	11+50.00	22	6	0
				47+50.00	255	1331	0	72+00.00	19	177	0	11+95.57	51	21	0
				48+00.00	234	1031	0	72+50.00	17	184	0				

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PROJ. REFERENCE NO.	SHEET NO.
R-5819 \ R-5820	X0-F

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

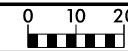
CROSS-SECTION SUMMARY

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station	Uncl. Exc.	Embt	Undercut
Y1RPB	(cu. yd.)	(cu. yd.)	(cu. yd.)
19+54.08	0	0	0
20+00.00	147	415	0
20+50.00	258	106	0
20+59.72	37	23	0
21+00.00	110	116	0
21+50.00	45	201	0
22+00.00	0	262	0
22+25.00	0	153	0
22+39.72	0	170	76
22+50.00	0	114	49
23+00.00	0	566	239
23+50.00	0	640	250
24+00.00	0	718	274
24+50.00	0	804	316
25+00.00	0	901	269
25+50.00	0	1035	145
25+75.00	0	558	39
26+00.00	0	593	0
26+50.00	0	1418	0
27+00.00	0	1580	0
27+33.31	0	1130	0
27+50.00	0	580	0
28+00.00	0	1810	0
28+50.00	0	1890	0
29+00.00	0	1956	0
29+13.31	0	543	0
29+50.00	0	1562	0
30+00.00	0	2286	0
30+50.00	0	2468	0
30+81.67	0	1657	0
31+00.00	0	990	0
31+50.00	0	2956	0
31+57.88	0	501	0

Station	Uncl. Exc.	Embt	Undercut
Y3ROUND	(cu. yd.)	(cu. yd.)	(cu. yd.)
10+00.00	0	0	0
10+25.00	0	197	0
10+50.00	0	204	0
10+75.00	0	190	0
11+00.00	0	176	0
11+25.00	0	206	0
11+50.00	0	237	0
11+63.36	0	110	0
11+88.36	0	176	0
12+13.36	0	164	0
12+38.36	0	143	0
12+63.36	0	163	0
12+88.36	0	223	0
13+13.36	0	232	0
13+26.73	0	107	0

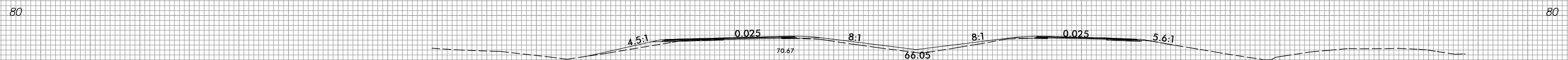
6/23/16



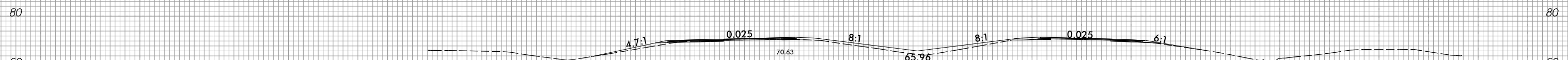
PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-1

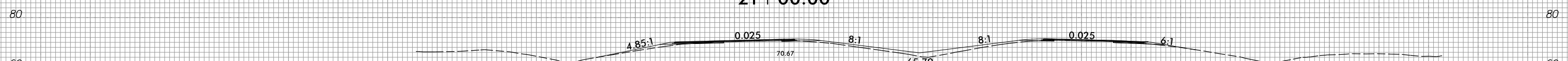
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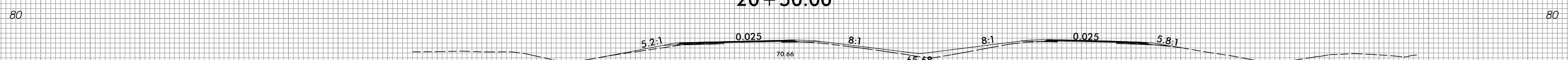
21+50.00



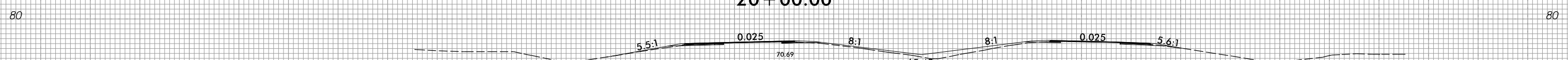
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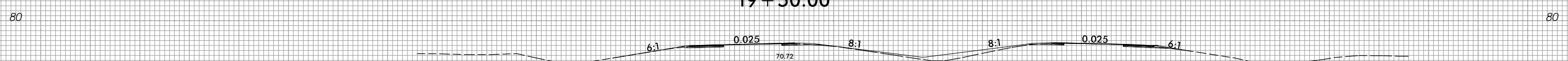
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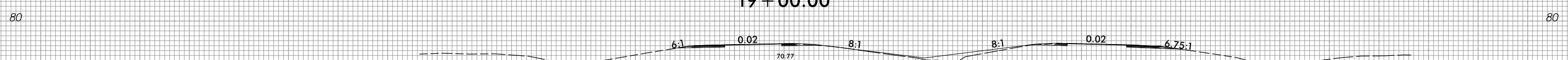
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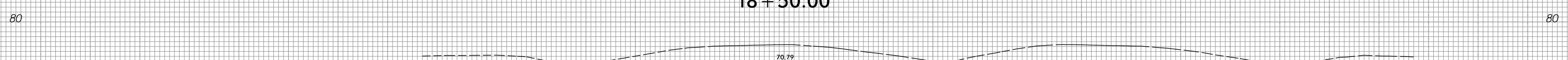
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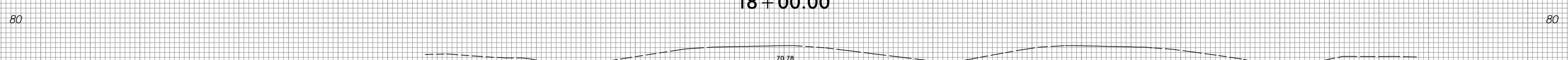
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18+50.00



18+00.00



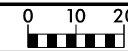
17+50.00

-LWB-

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2/15/2022
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Grant.Augsburg

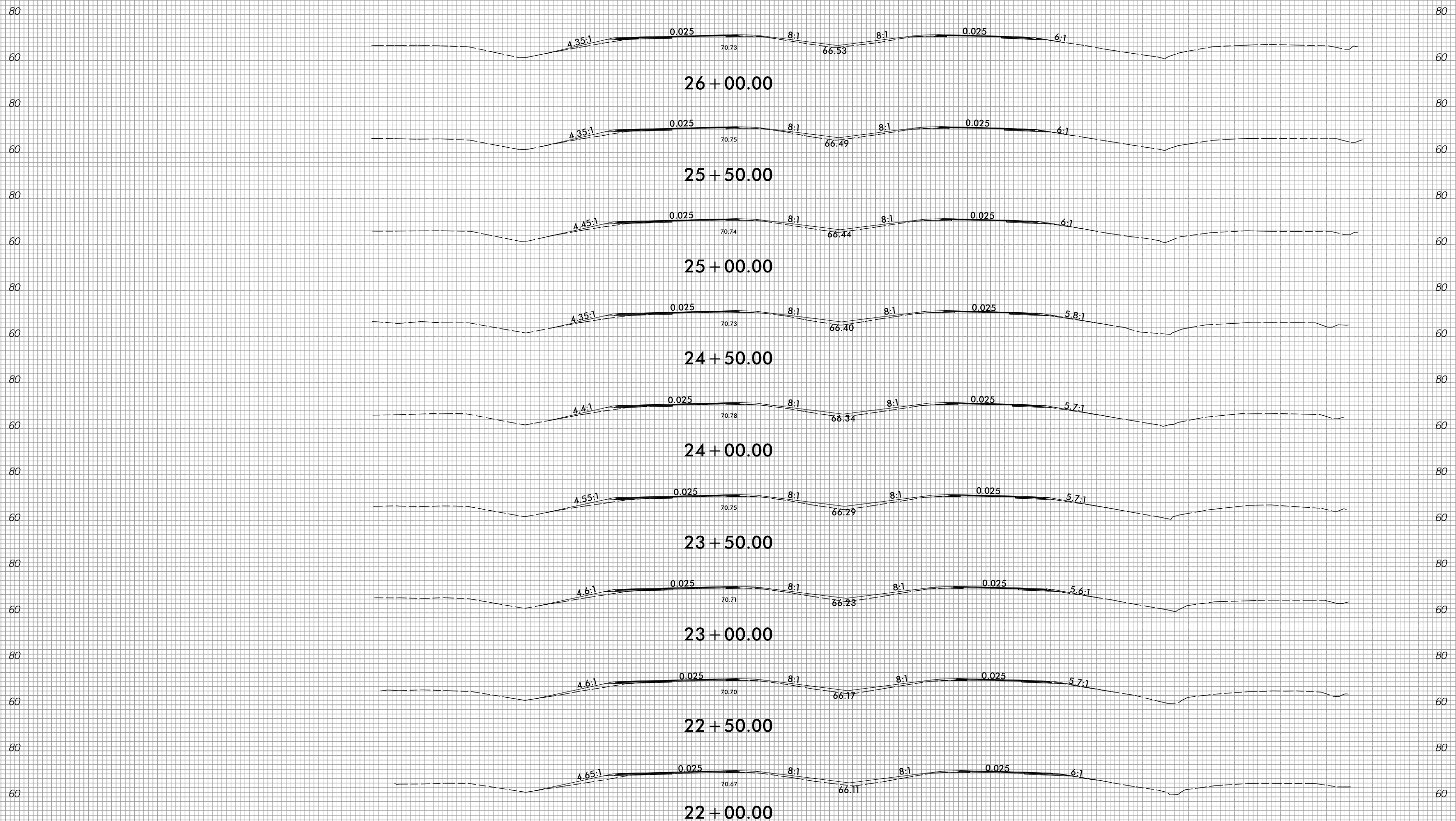
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PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-2

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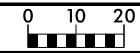


-LWB-

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Grant.Augsburg

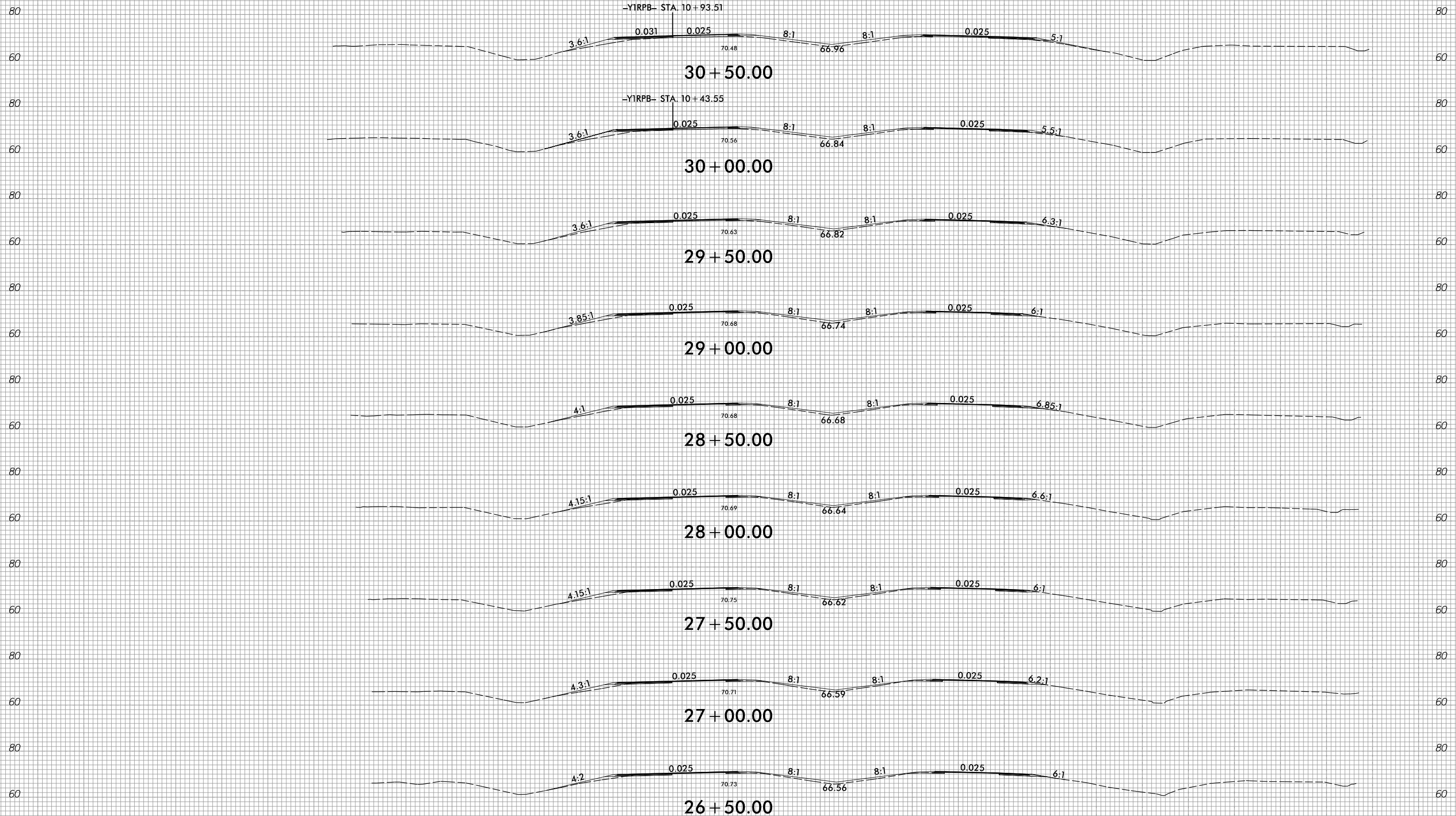
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-3

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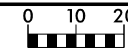


-LWB-

2/15/2022
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Grant.Augsburg

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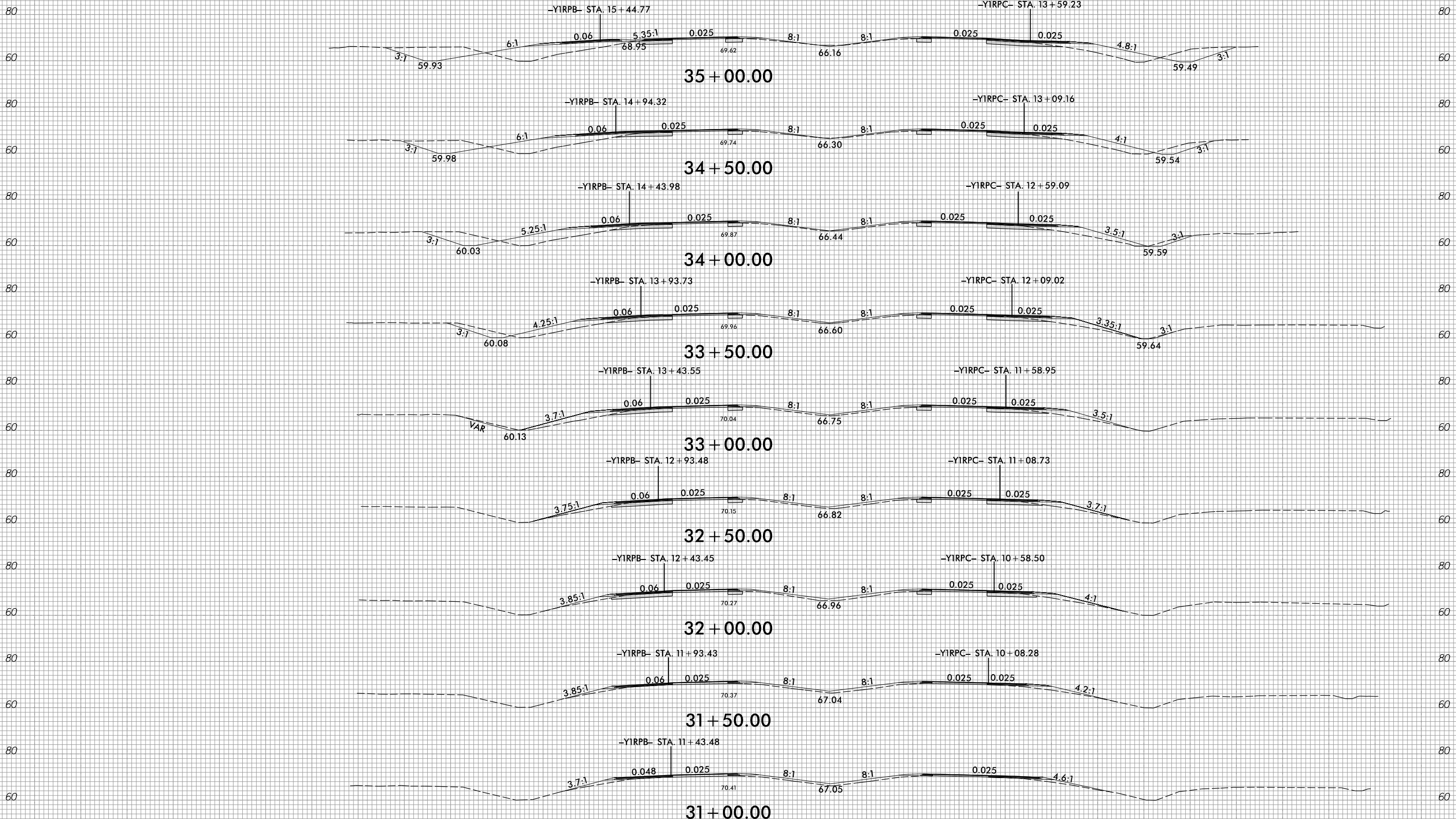
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PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-4

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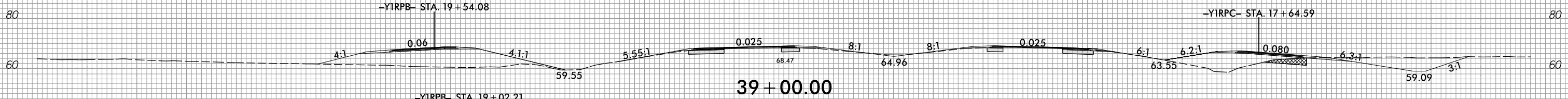
-LWB-

SHALLOW
UNDERCUT
EXCAVATION

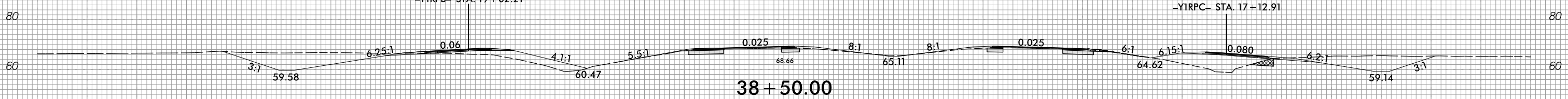
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Grant, Augsburg

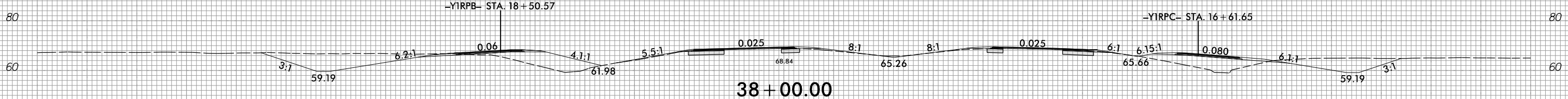
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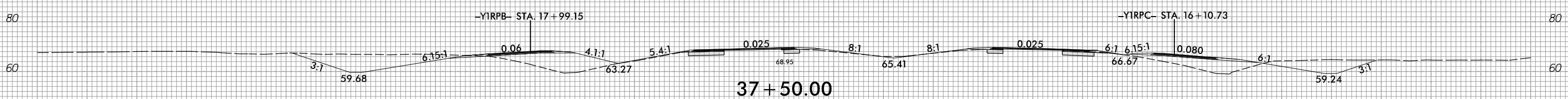
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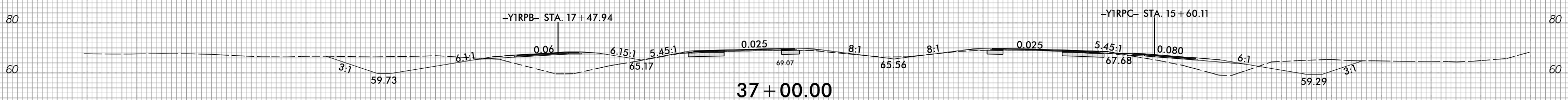
38+50.00



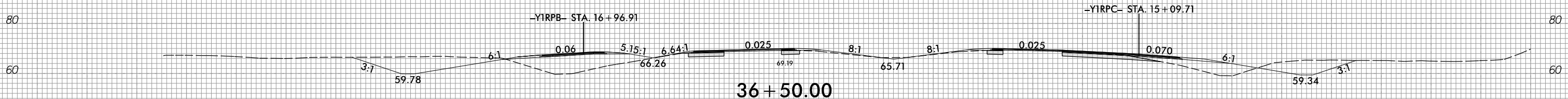
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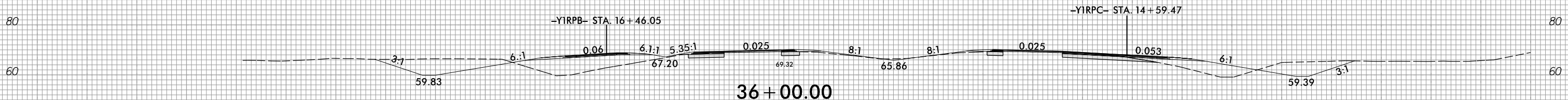
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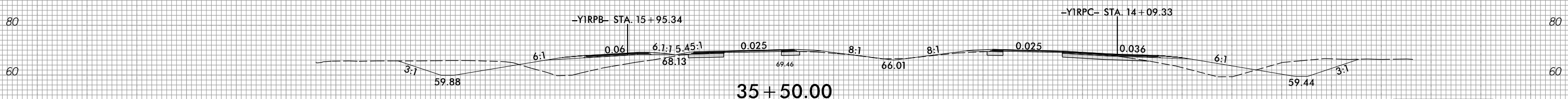
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36+50.00



36+00.00

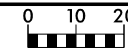


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-LWB-

SHALLOW UNDERCUT EXCAVATION

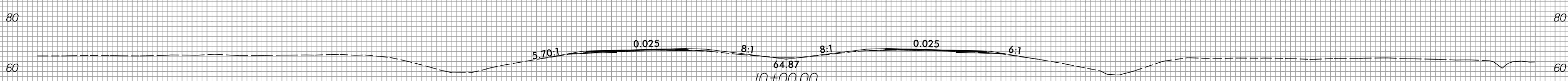
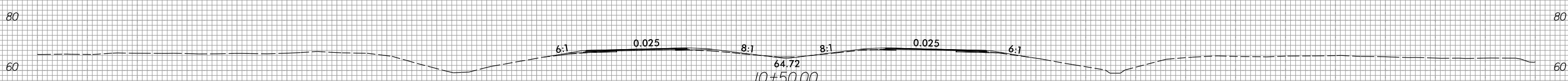
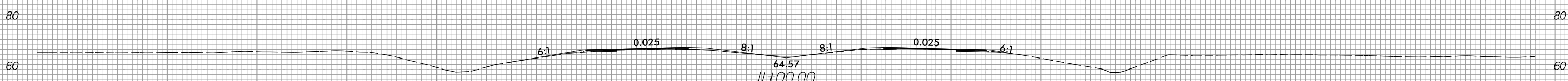
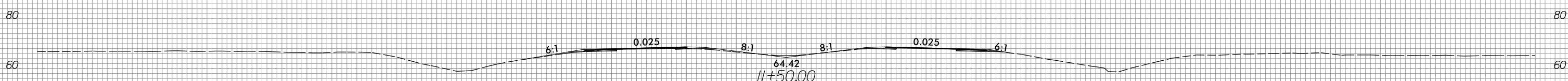
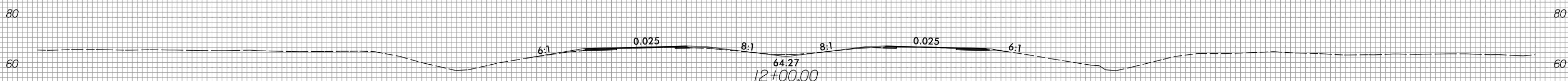
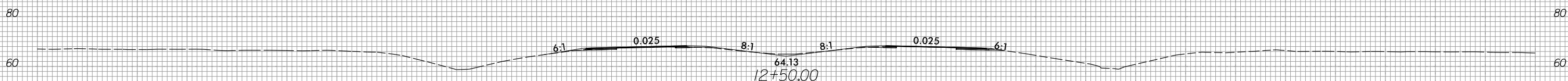
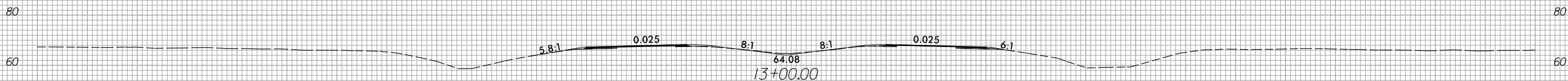
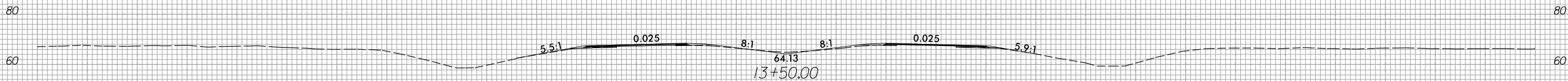
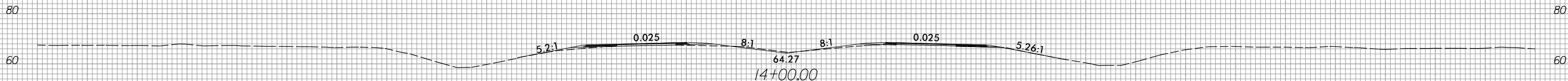
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-6

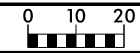
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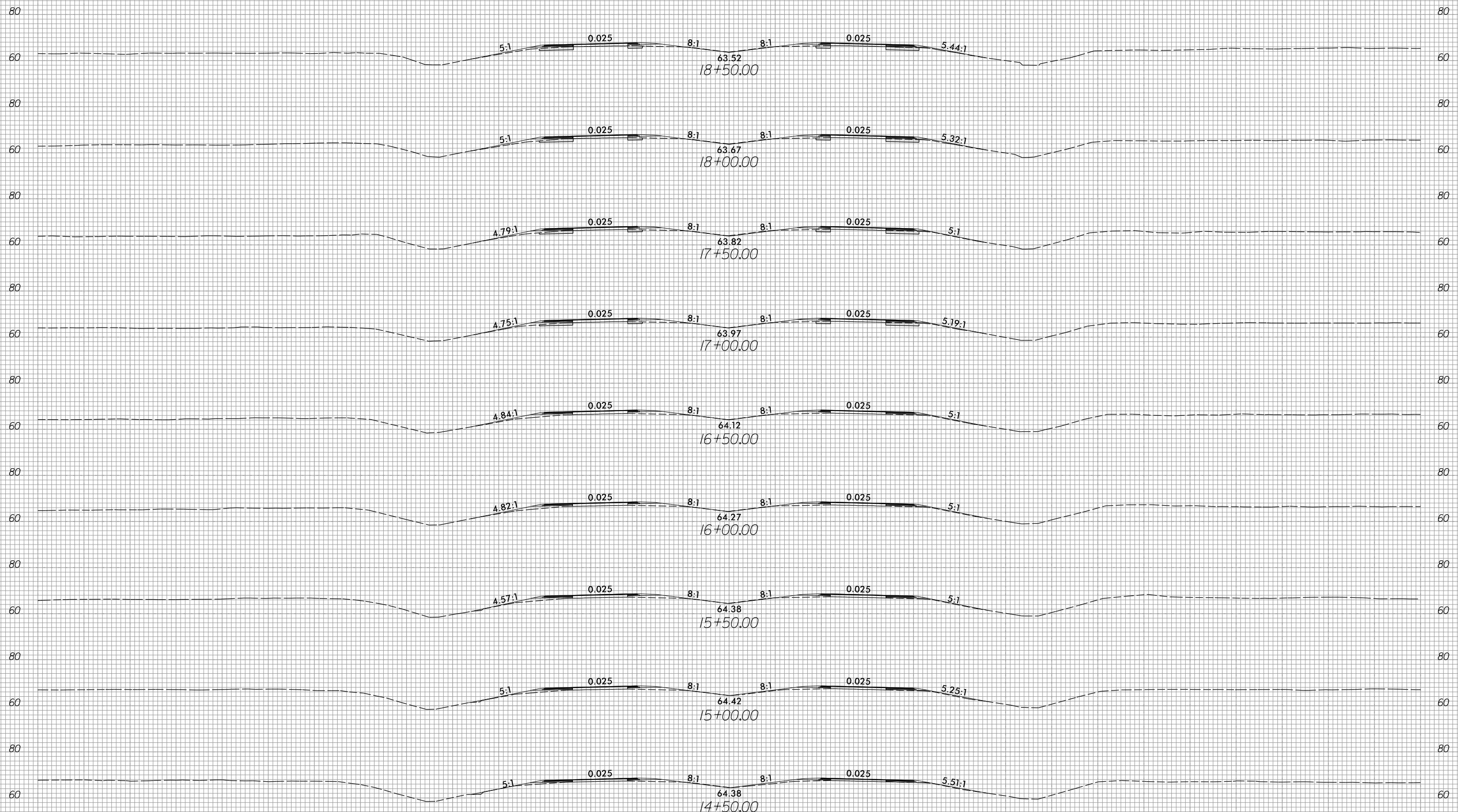
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Grant, Augsburg

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-7

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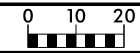


SHALLOW UNDERCUT EXCAVATION

2/15/2022
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 Grant, Augsburg

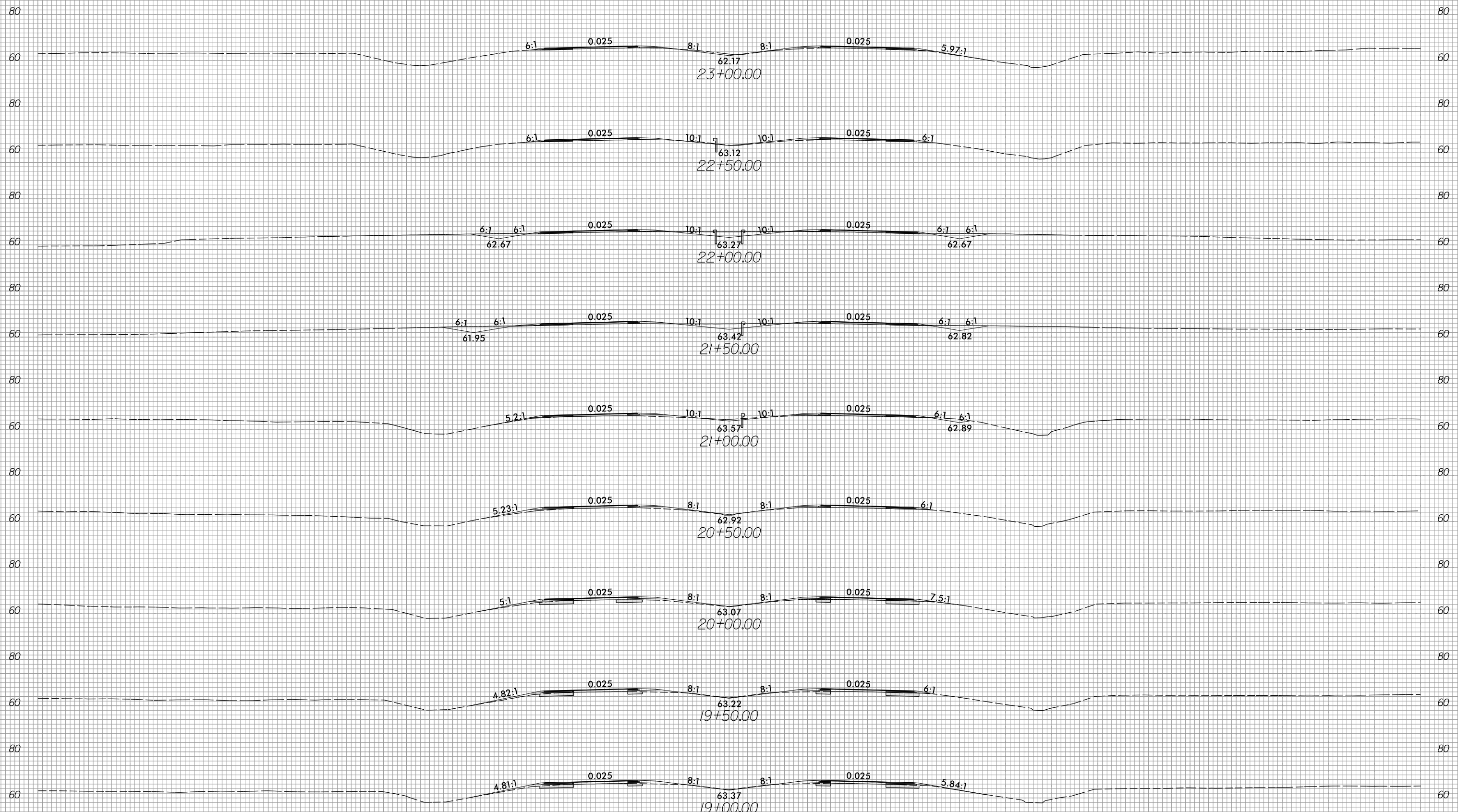
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-8

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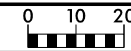


SHALLOW UNDERCUT EXCAVATION

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 Grant, Augsburg

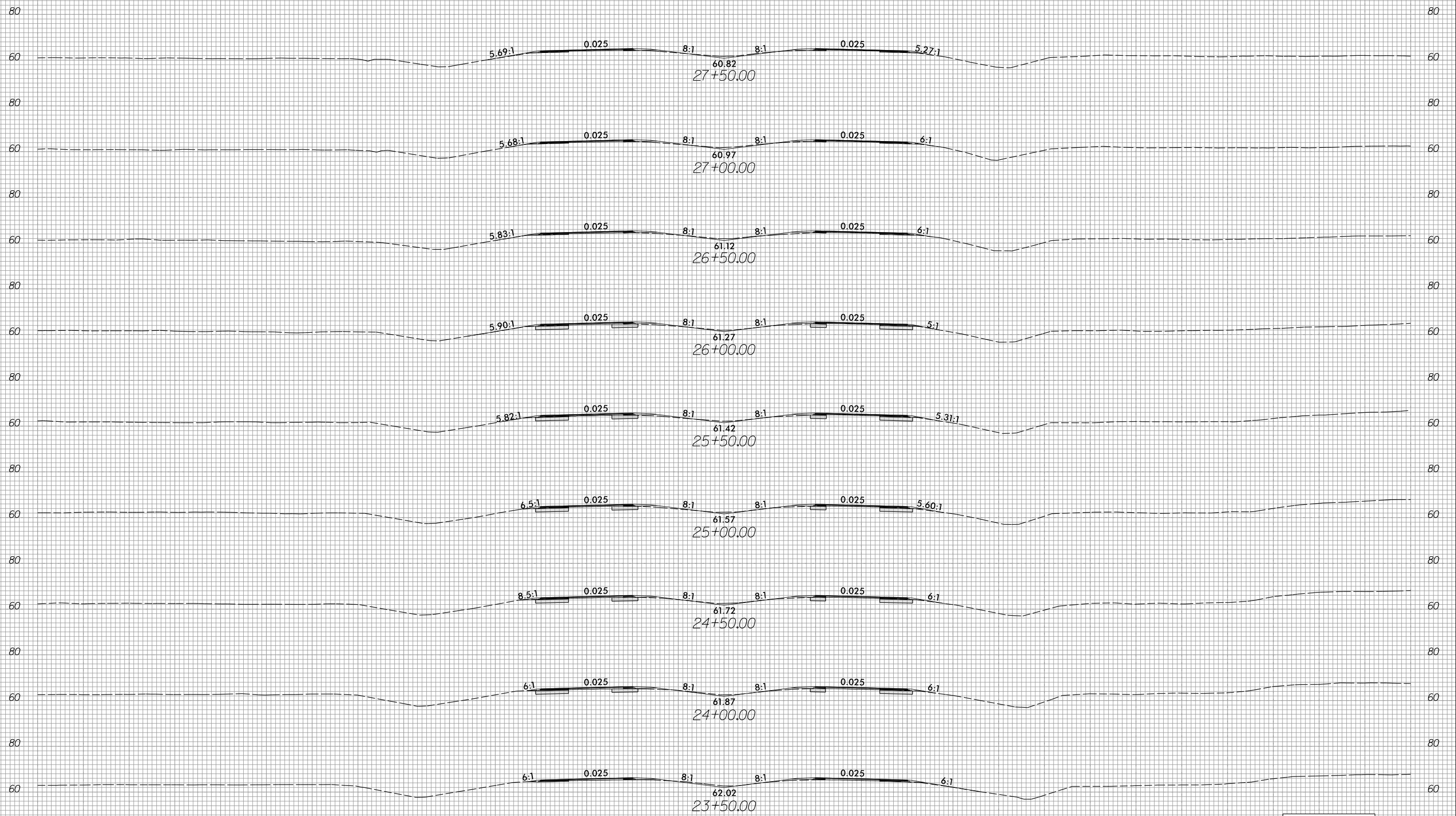
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-9

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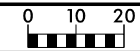


SHALLOW UNDERCUT EXCAVATION

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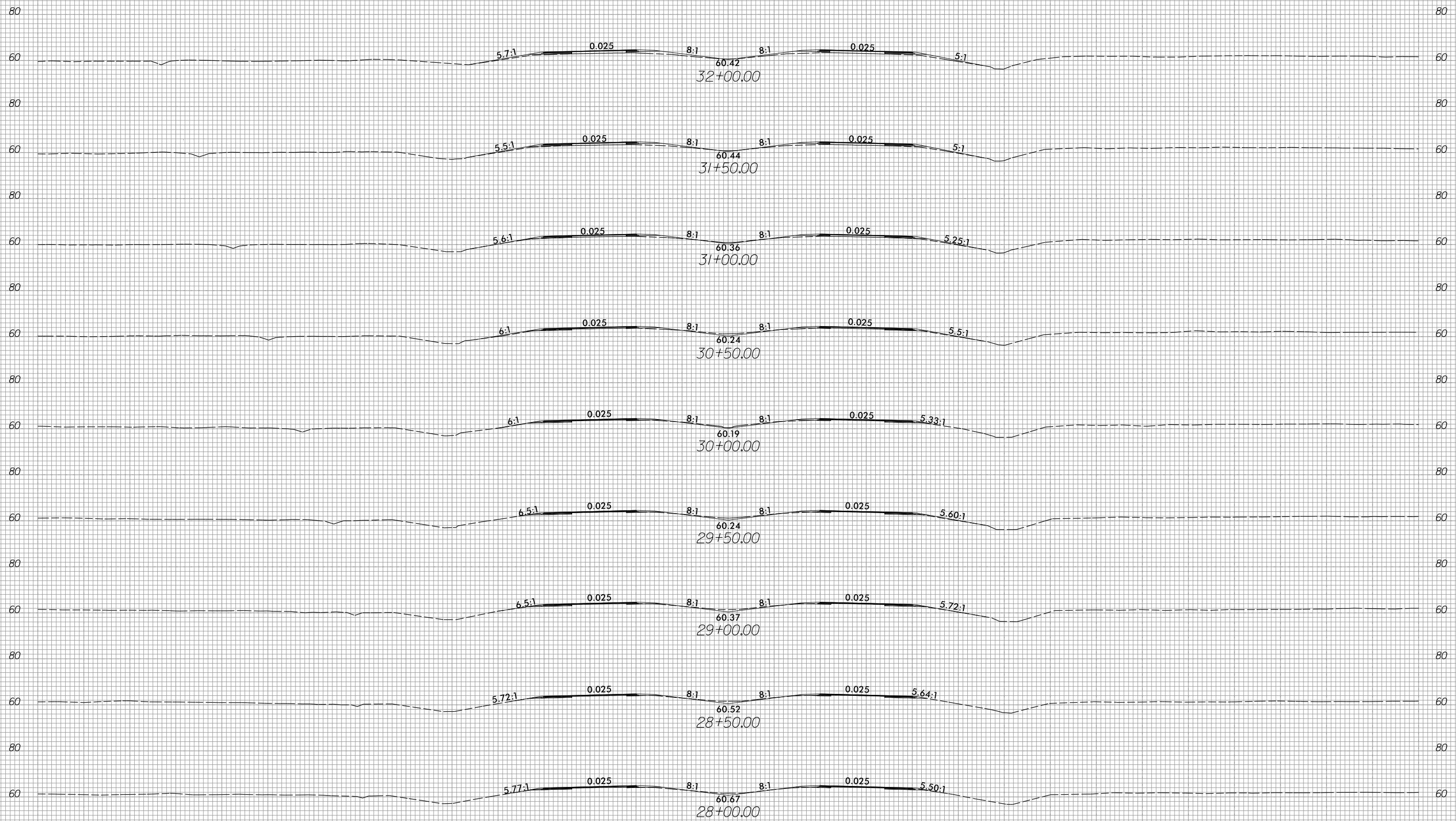
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-10

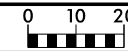
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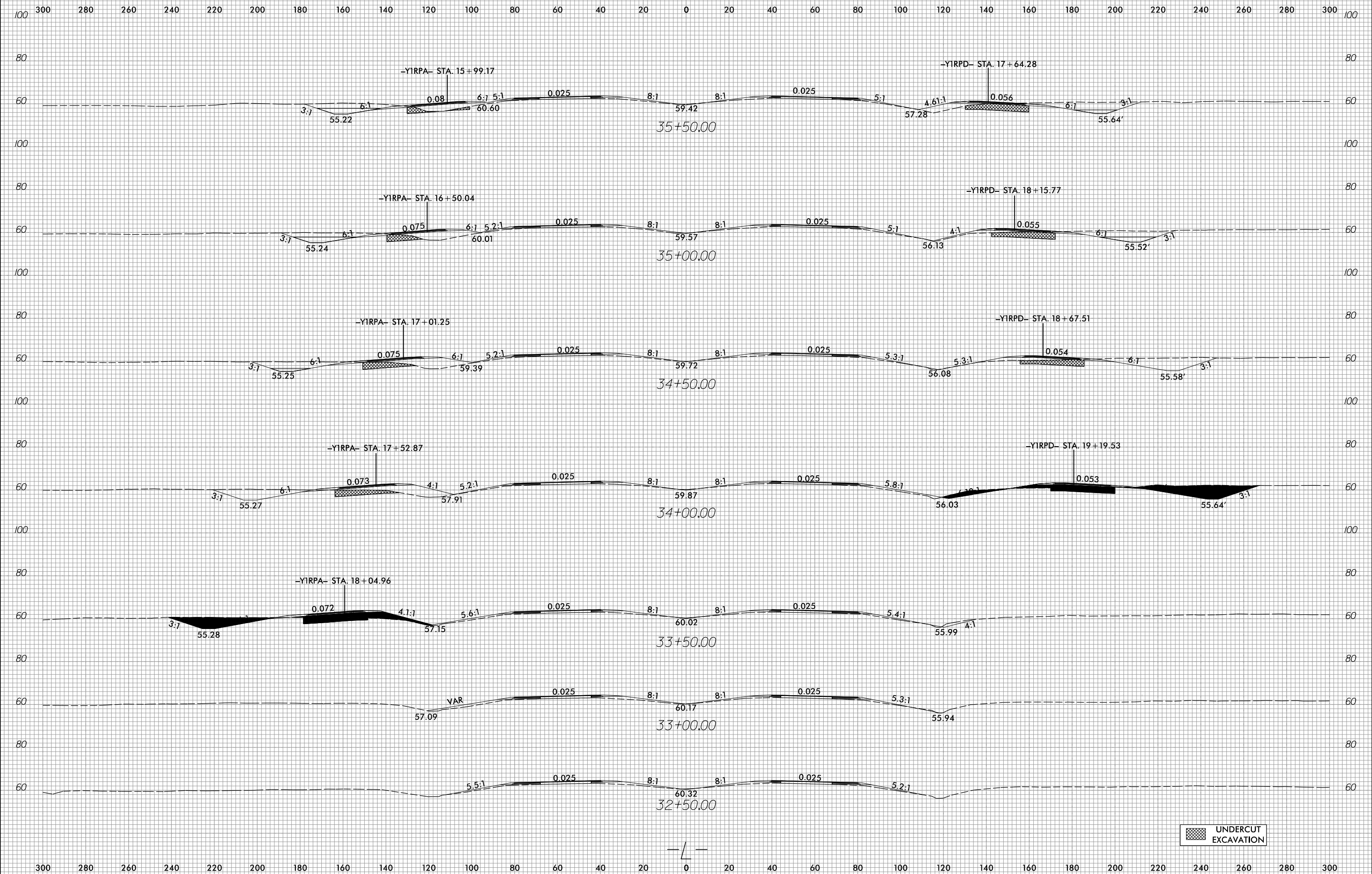
2/15/2022
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Grant, Augsburg

6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

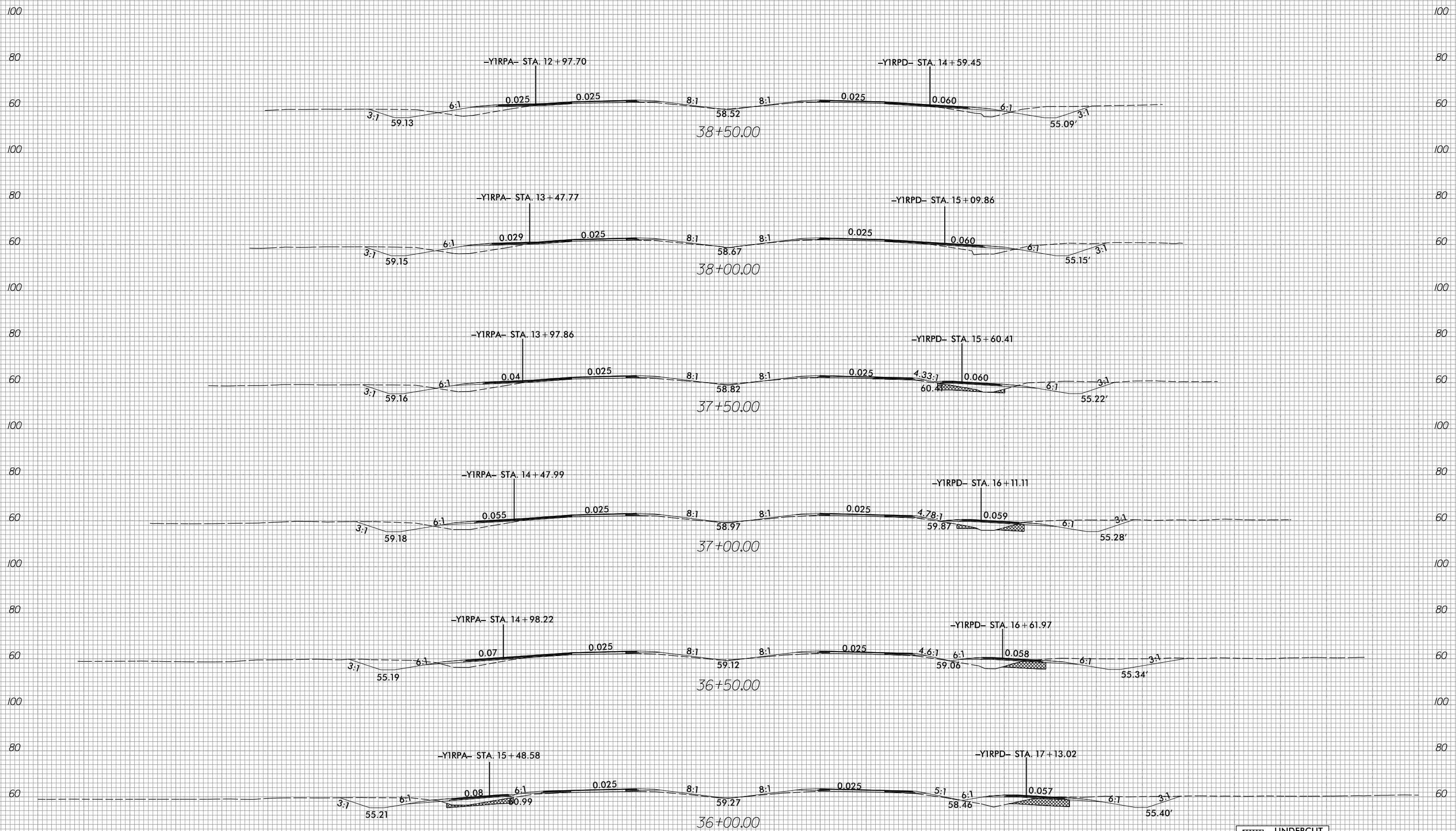
SHEET NO.
X-11



2/15/2022
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Grant, Augsburg

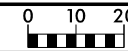
UNDERCUT EXCAVATION

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UNDERCUT EXCAVATION

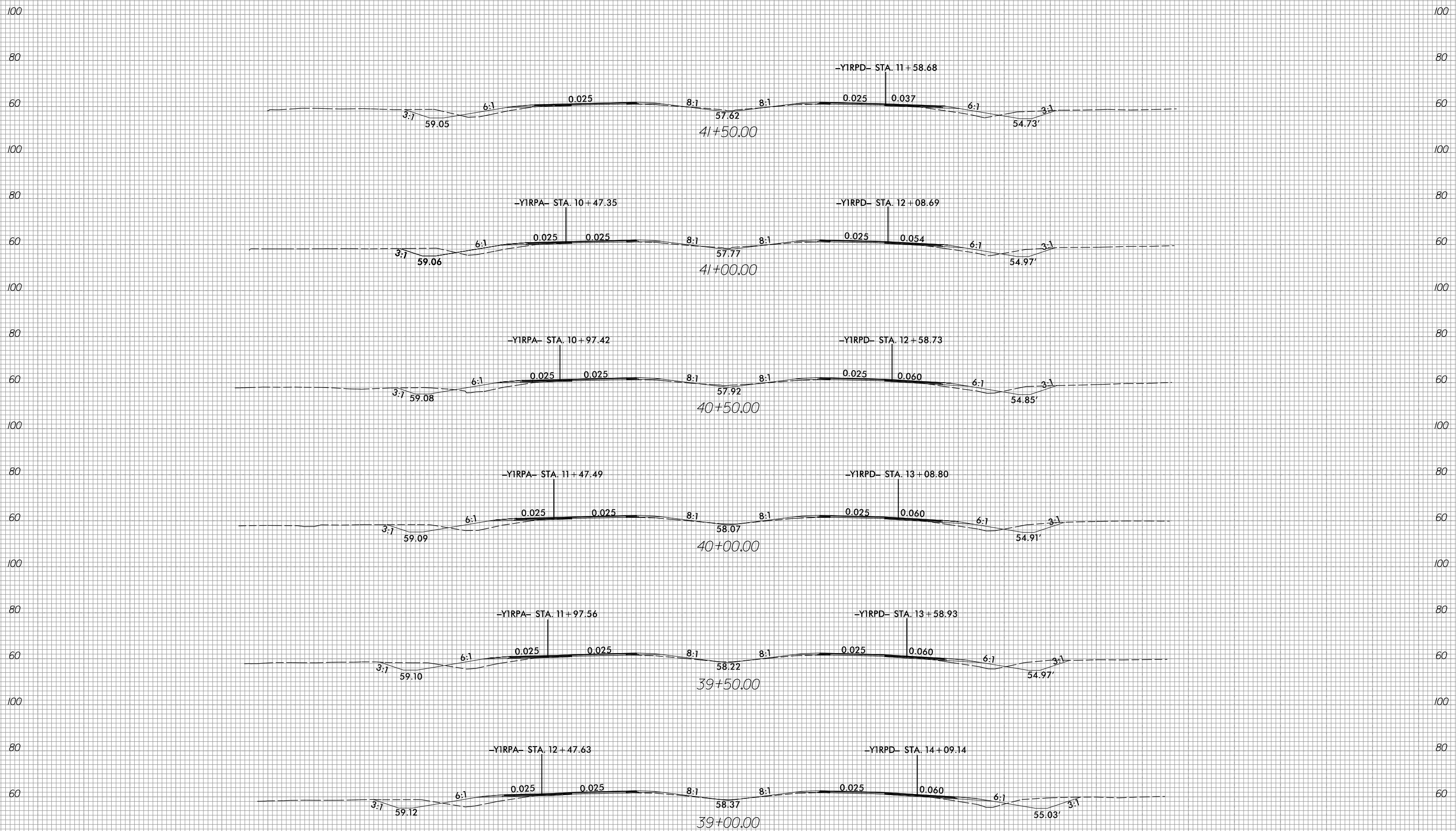
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-13

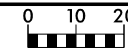
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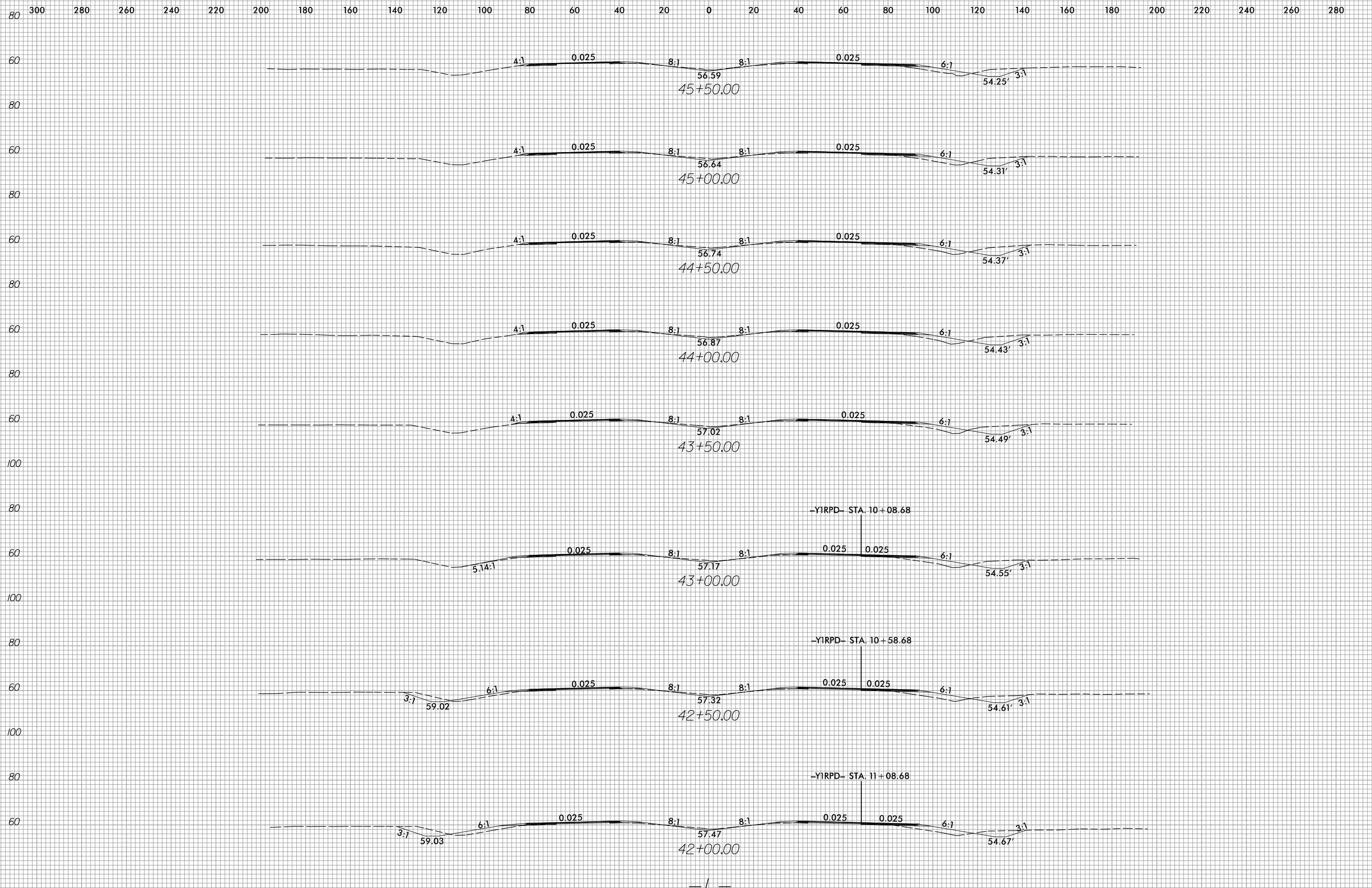
2/15/2022
R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL.L.dgn
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PROJ. REFERENCE NO.
R-5819 / R-5820

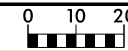
SHEET NO.
X-14



2/15/2022
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Grant, Augsburg

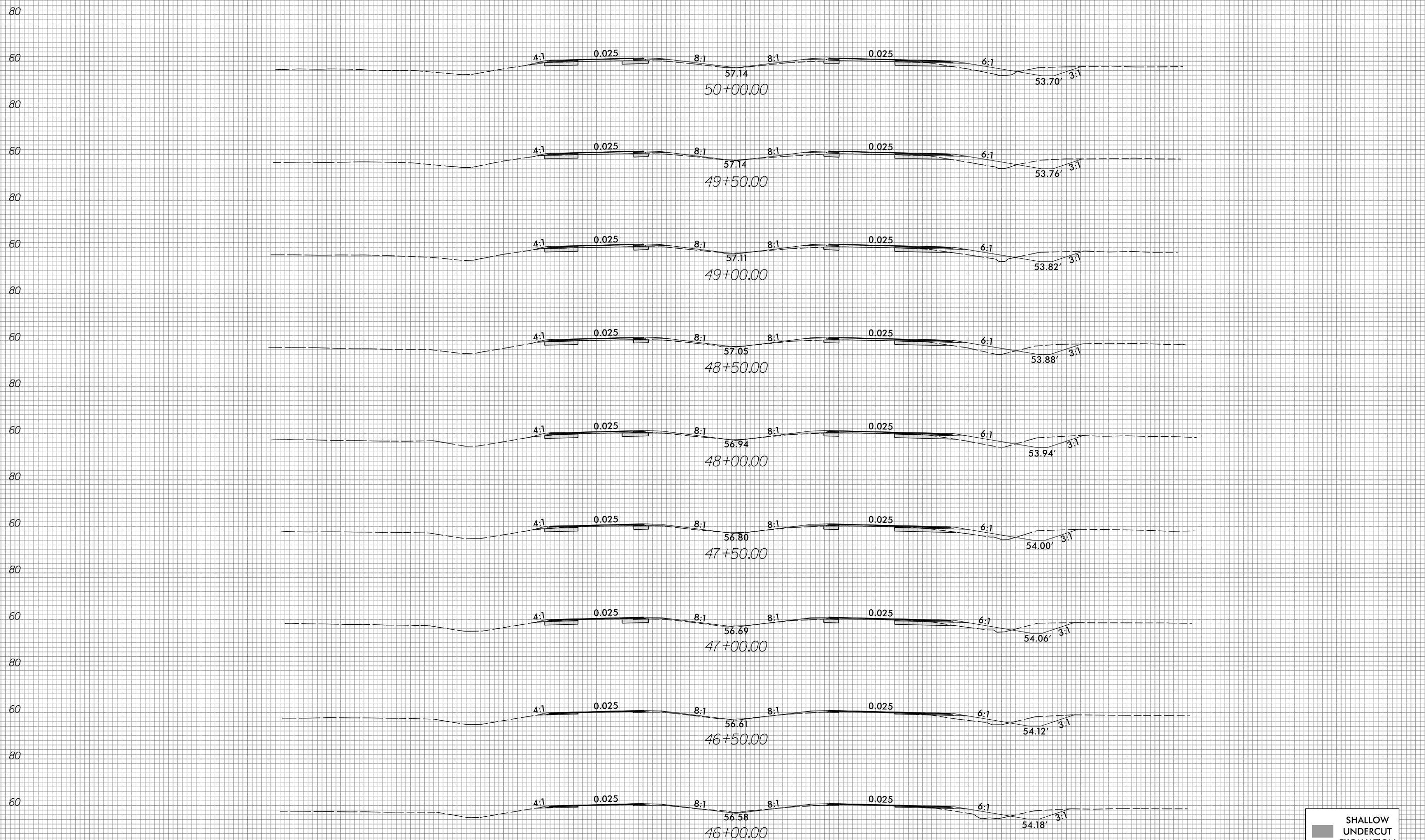
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PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-15

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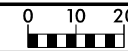


SHALLOW UNDERCUT EXCAVATION

2/15/2022
 R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_L.dgn
 Grant, Augsburg

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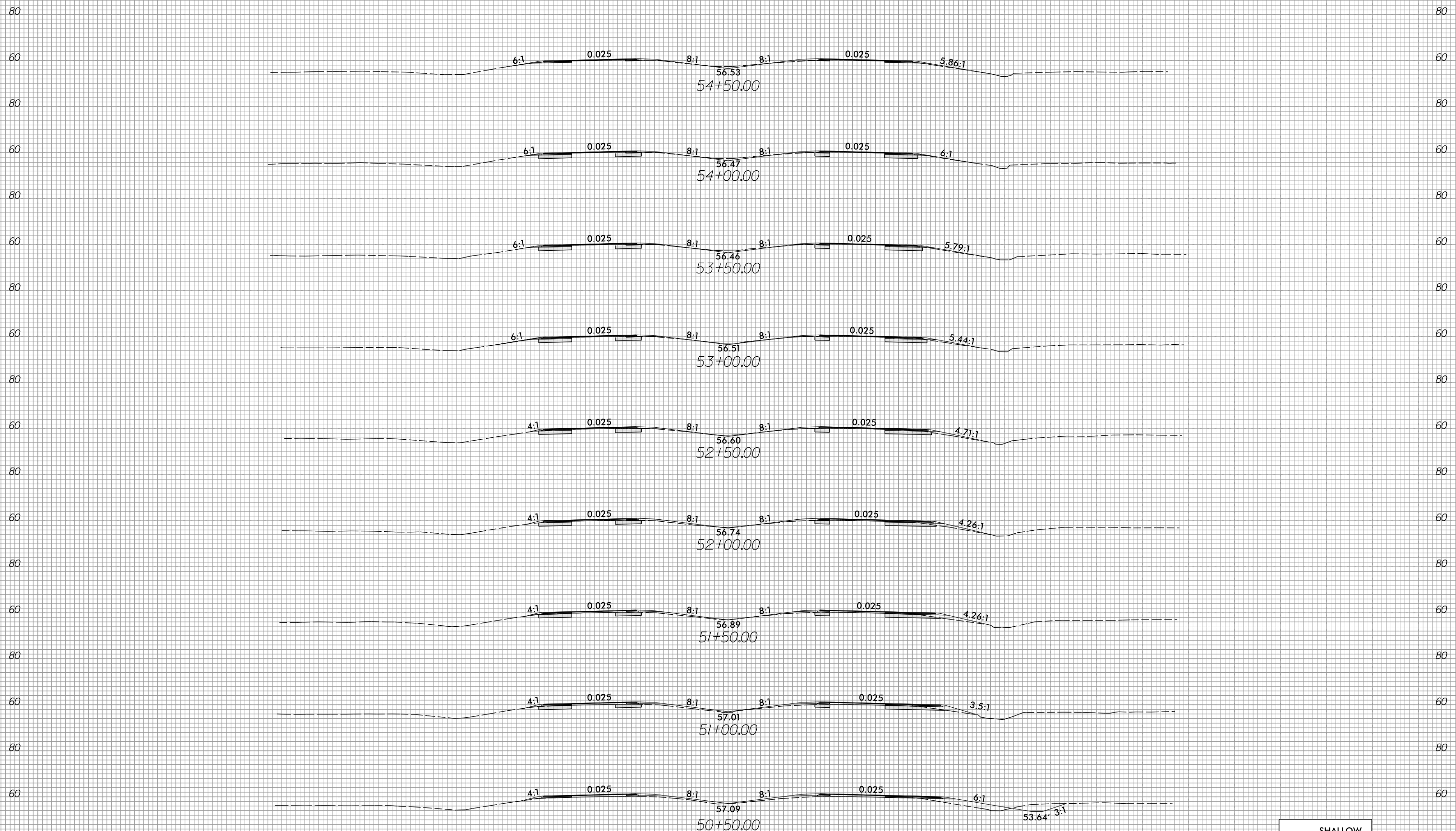
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-16

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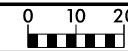


SHALLOW UNDERCUT EXCAVATION

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Grant, Augsburg

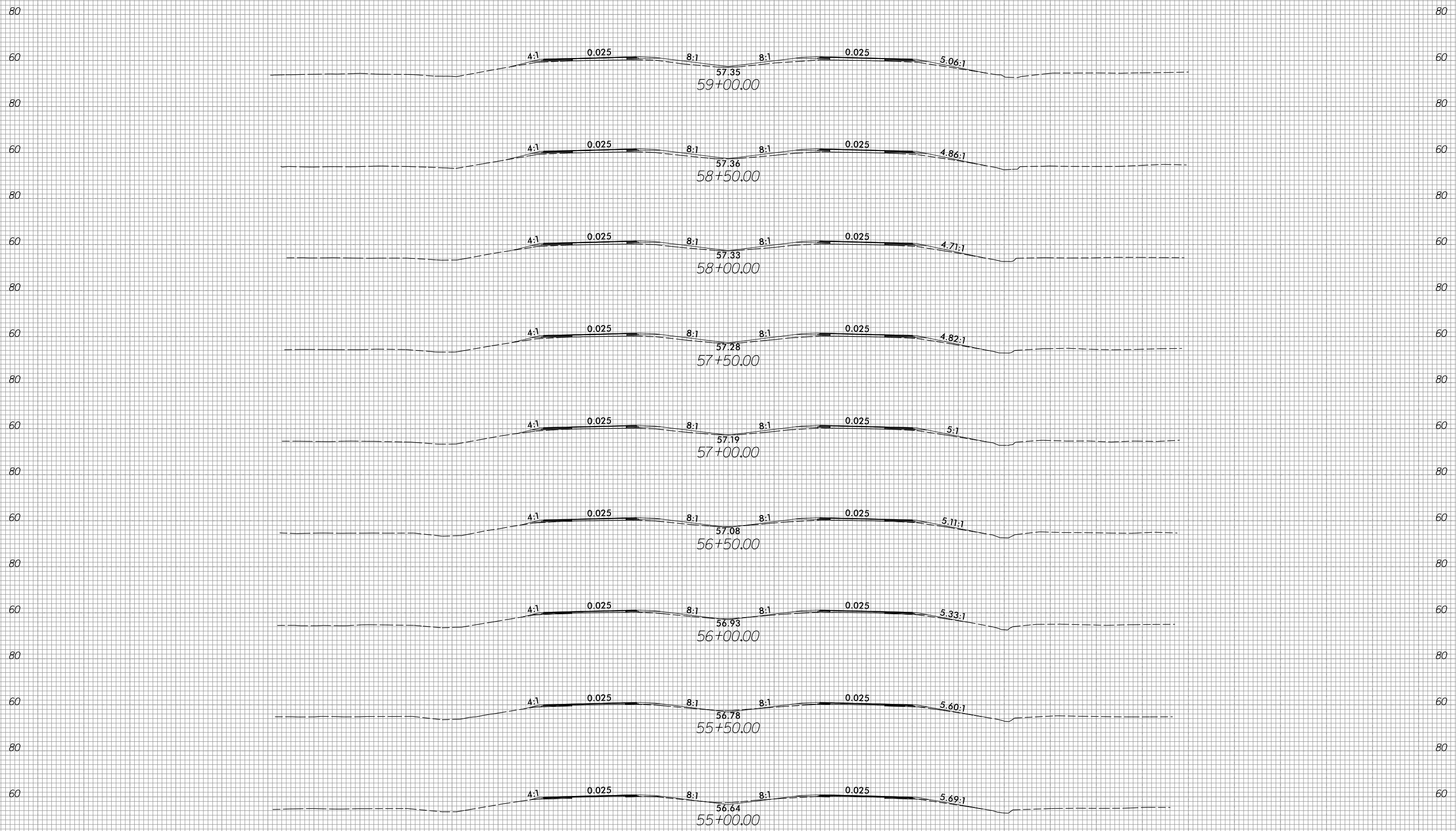
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-17

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Grant, Augsburg

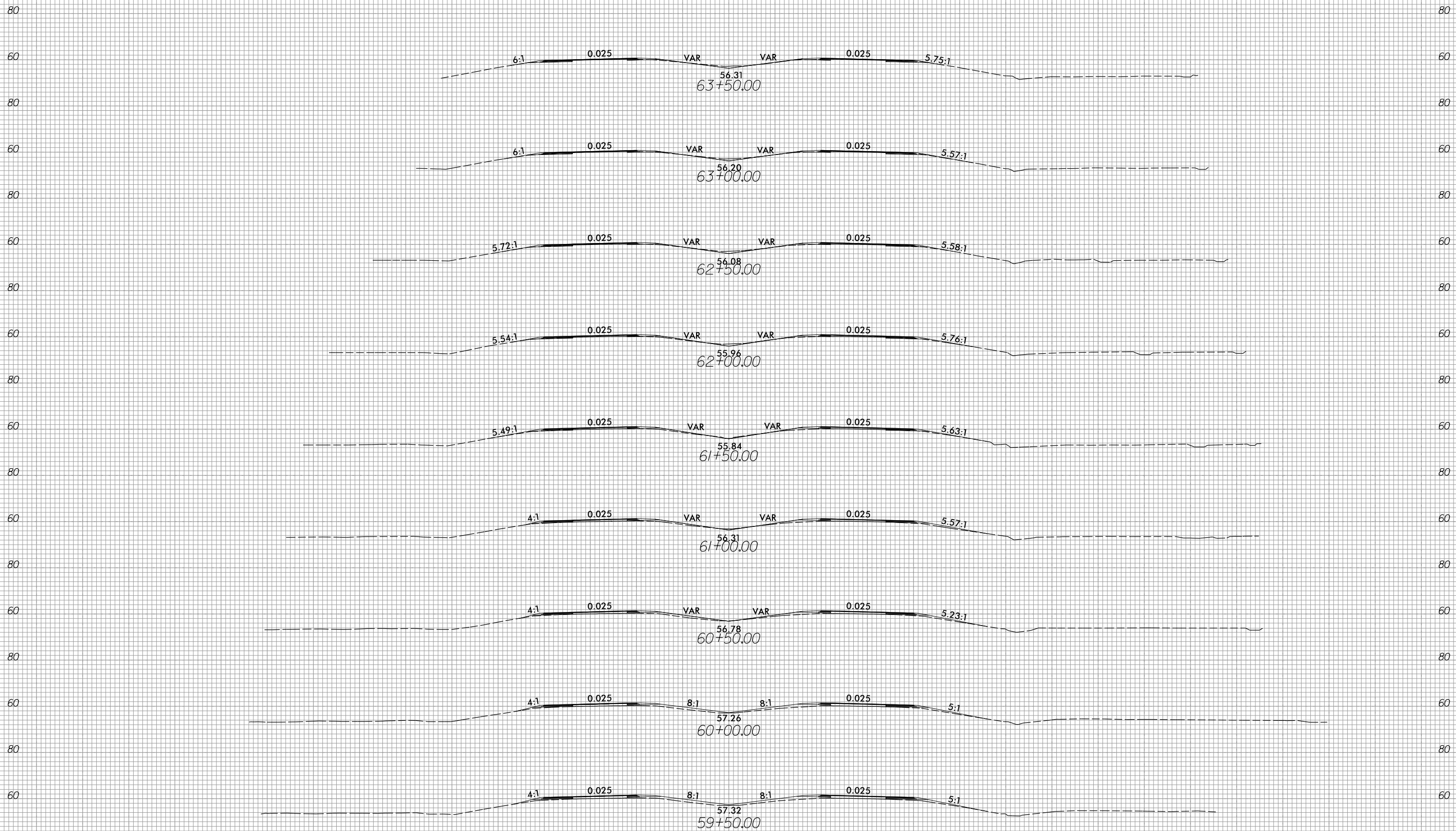
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-18

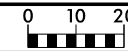
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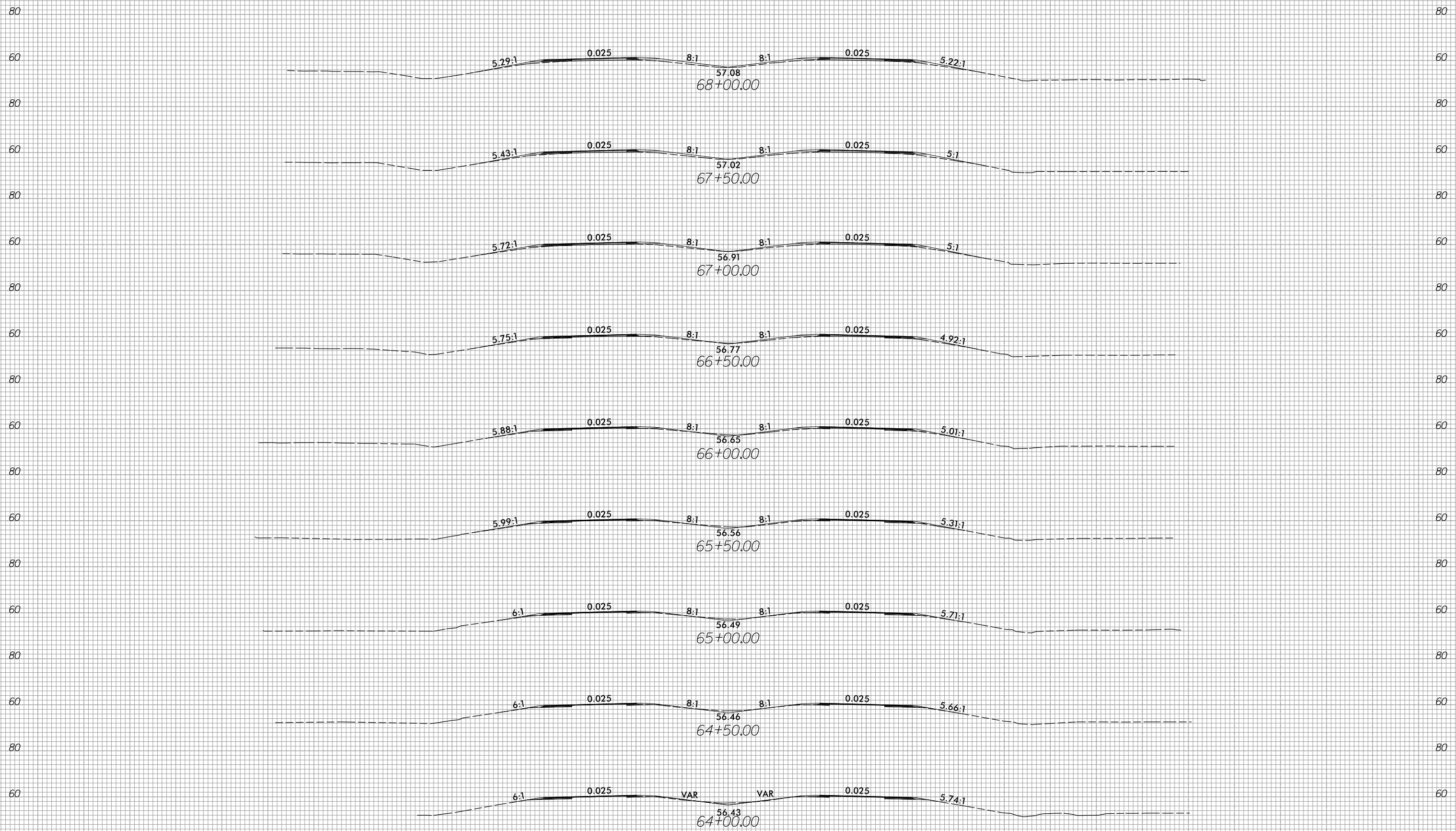
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Grant, Augsburg

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PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-19

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300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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 Grant, Augsburg

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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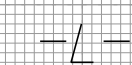
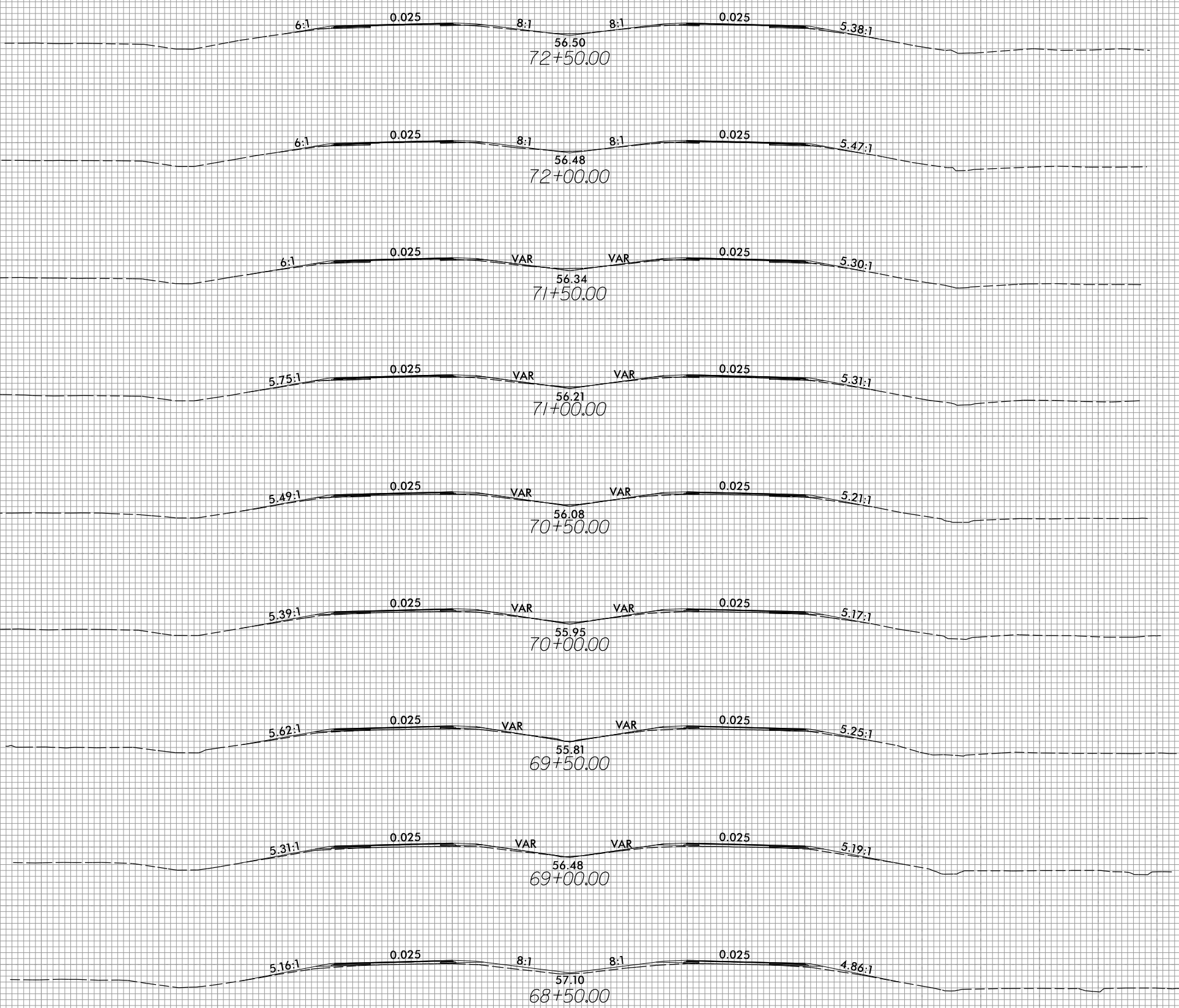
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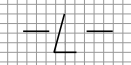
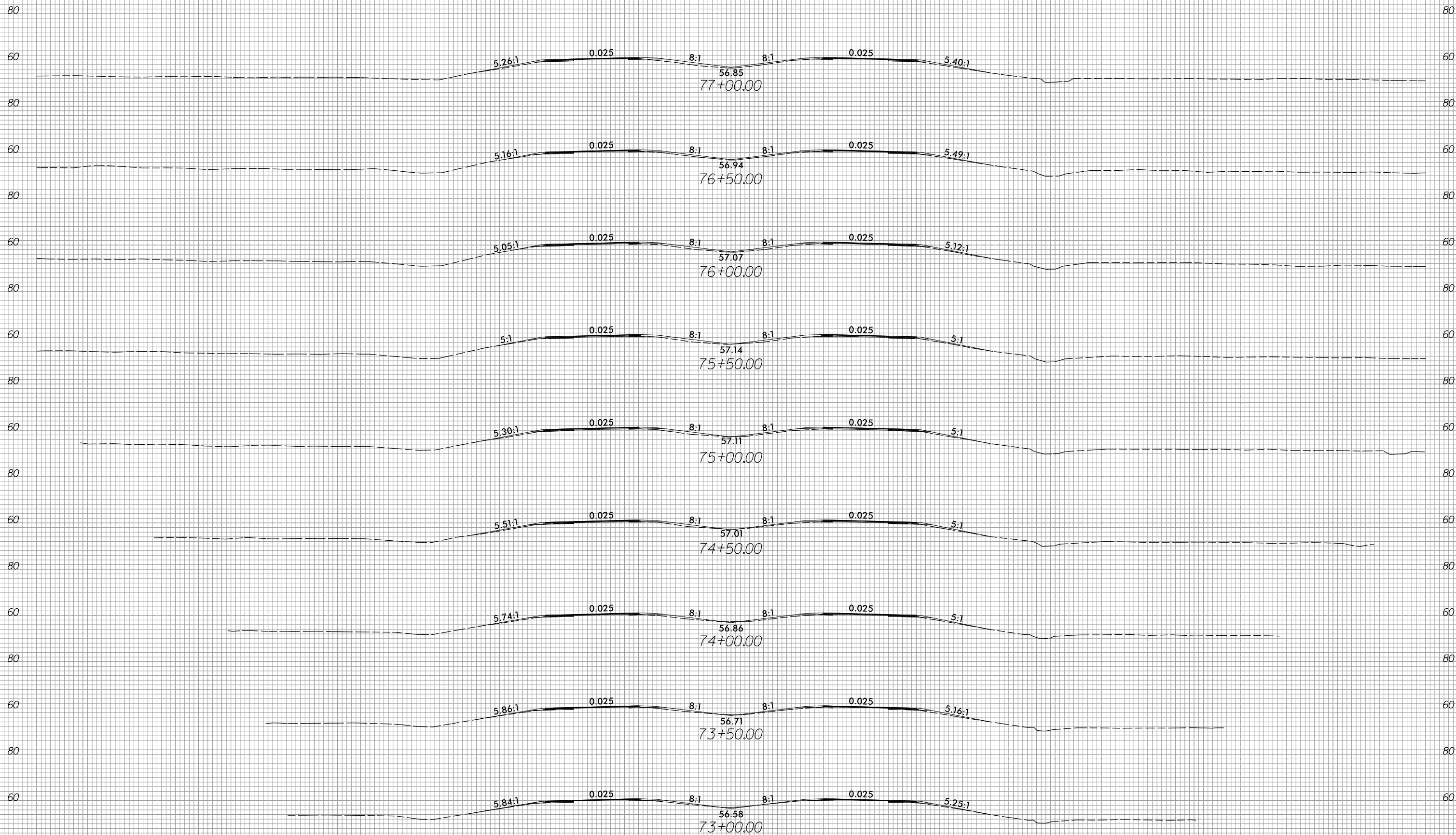
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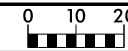


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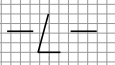
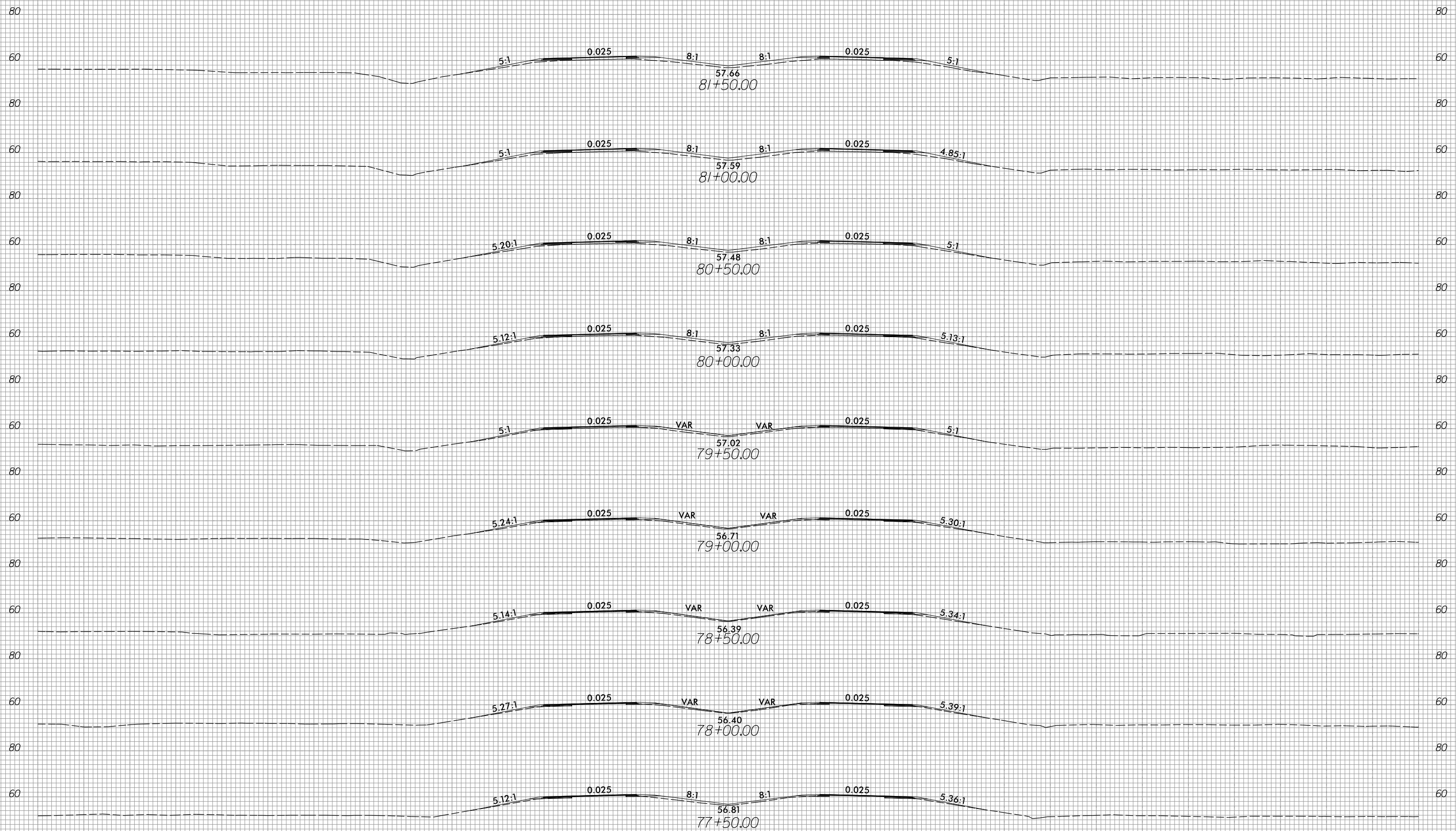


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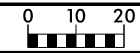




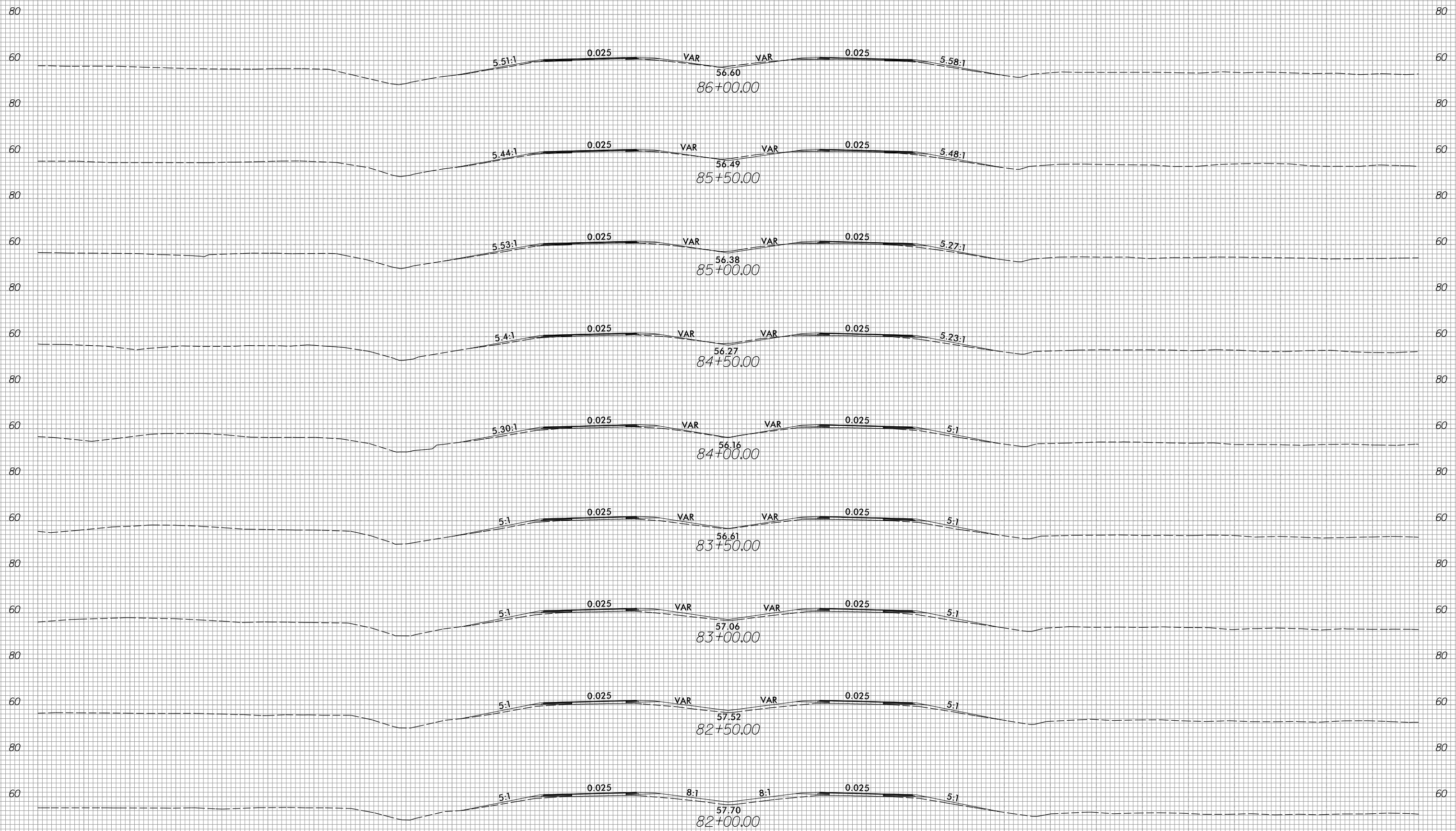
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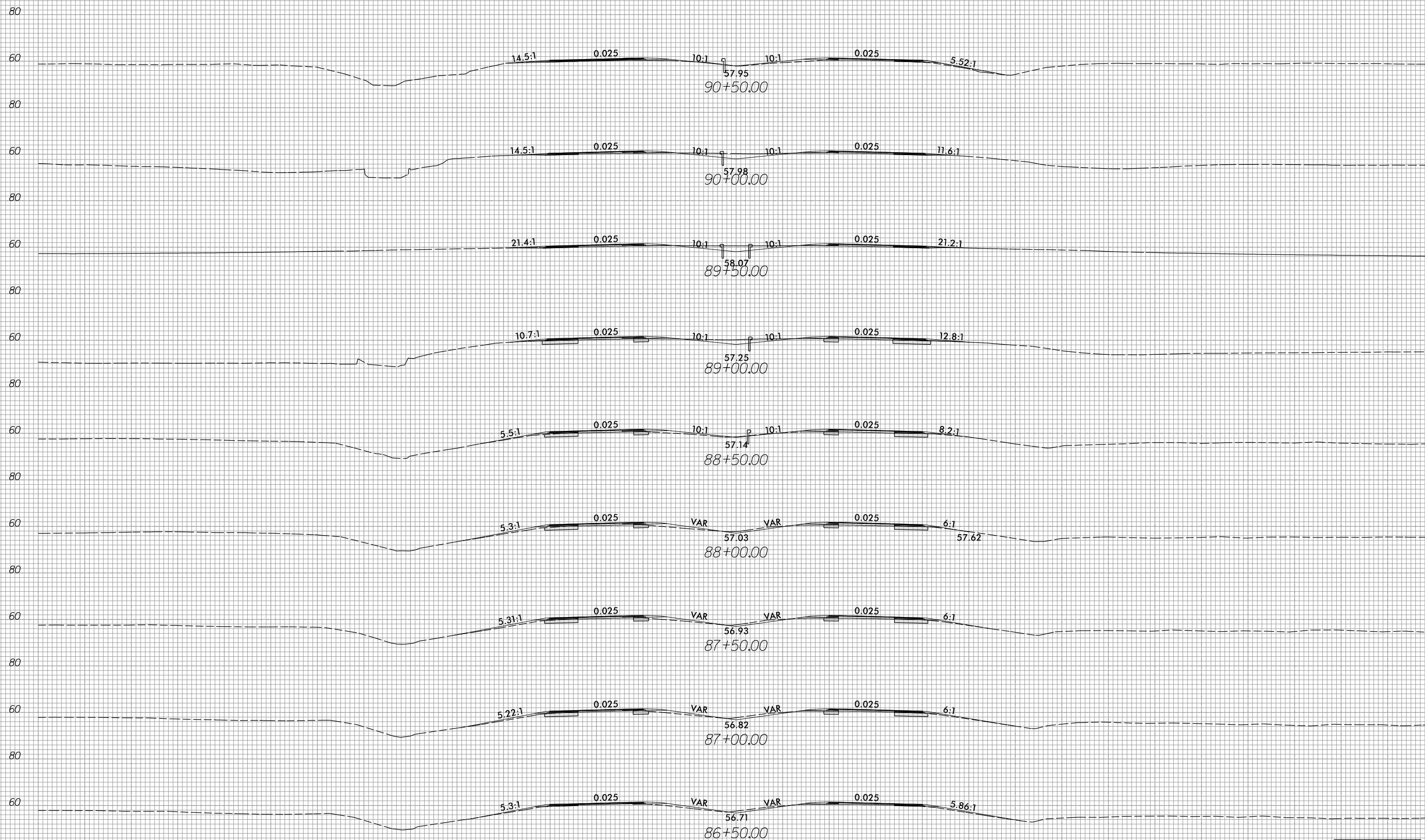


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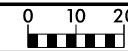
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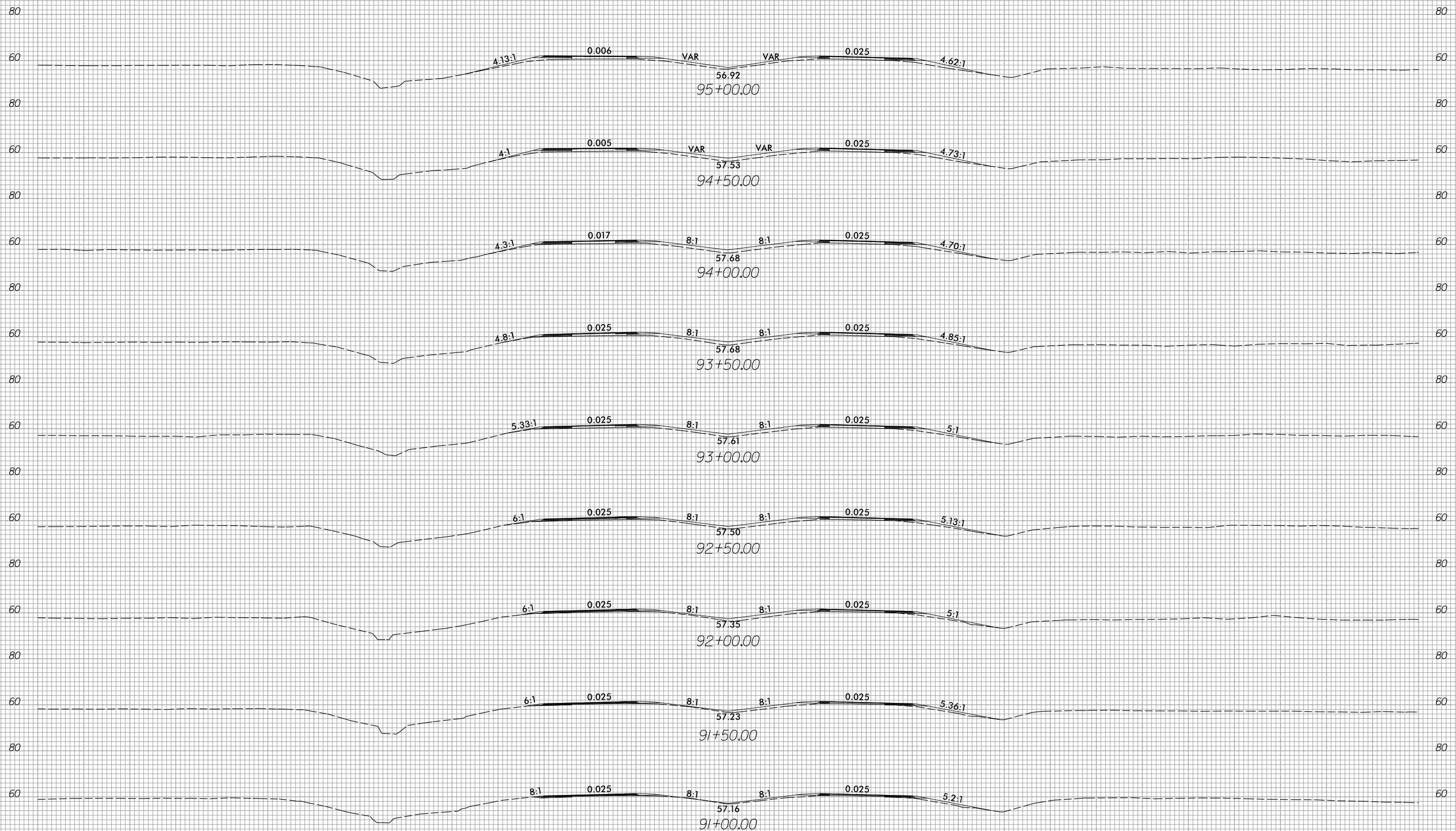


SHALLOW
UNDERCUT
EXCAVATION

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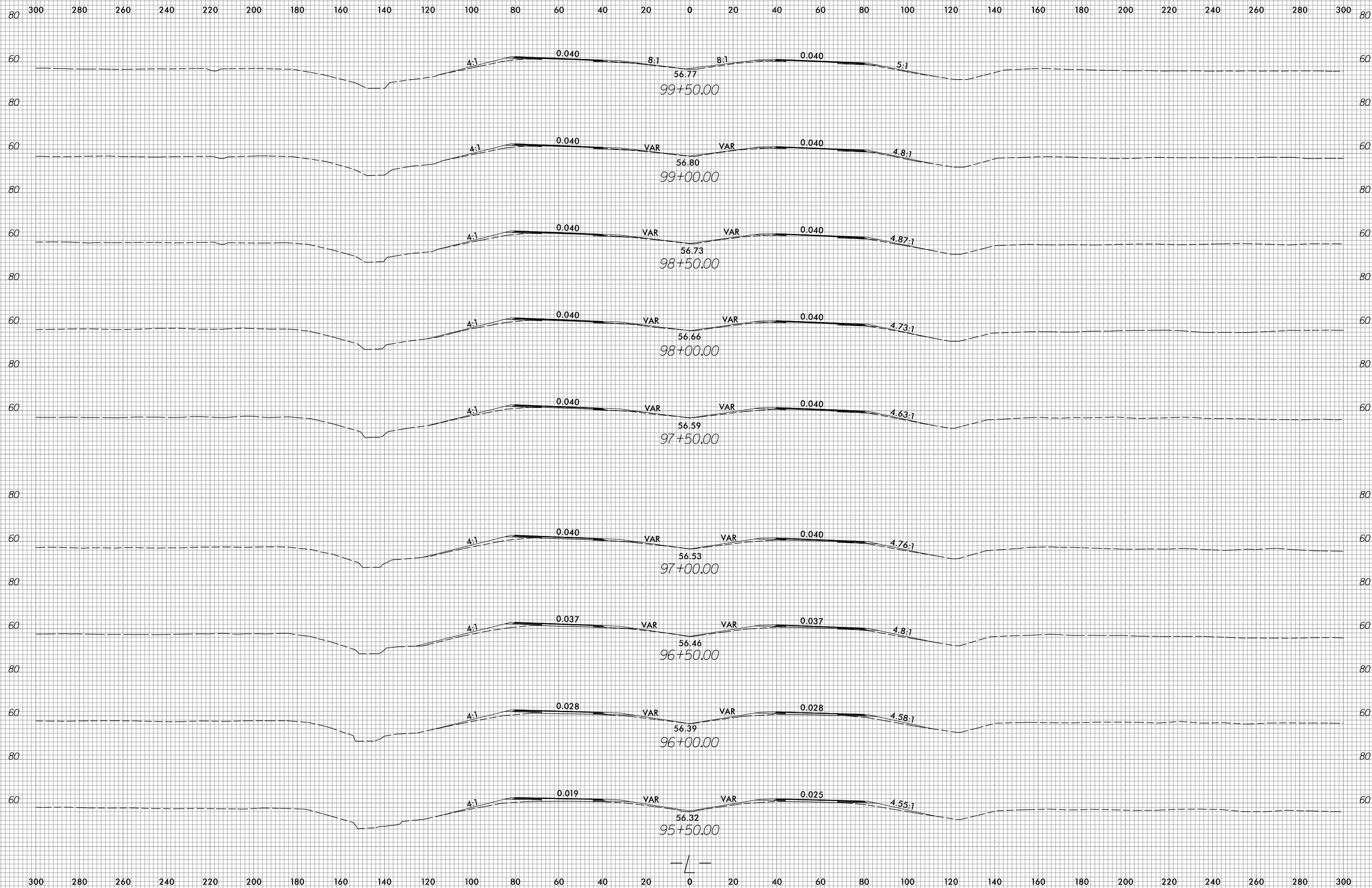
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6/23/16



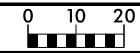
PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-26



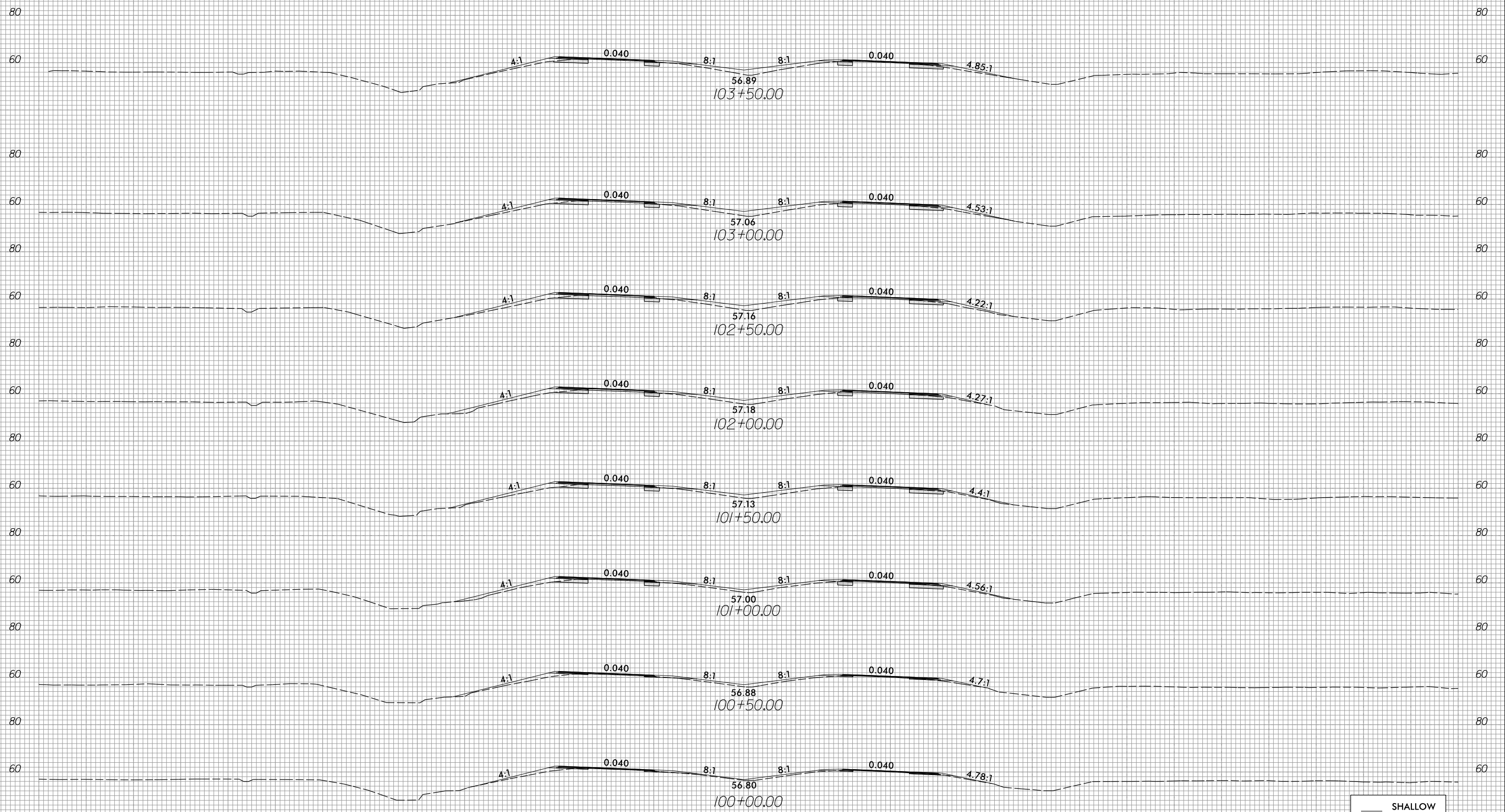
2/15/2022
R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_L.dgn
Grant, Augsburg

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-27

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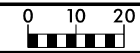


SHALLOW UNDERCUT EXCAVATION

2/15/2022
 R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_L.dgn
 Grant, Augsburg

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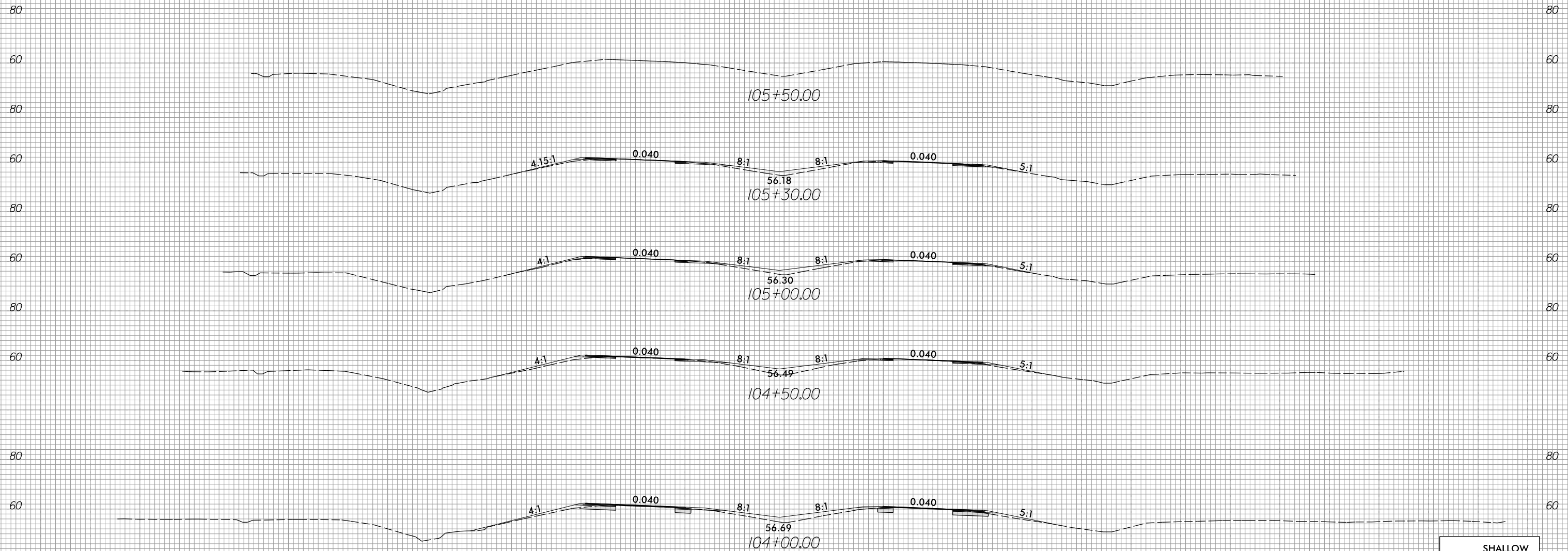
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-28

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Grant, Augsburg

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

SHALLOW
UNDERCUT
EXCAVATION

6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-29

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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14+50.00

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11+00.00

10+50.00

-Y/-

POST OFFICE DRIVEWAY

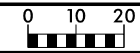
POST OFFICE DRIVEWAY

GAS STATION DRIVEWAY POST OFFICE DRIVEWAY

SHALLOW UNDERCUT EXCAVATION

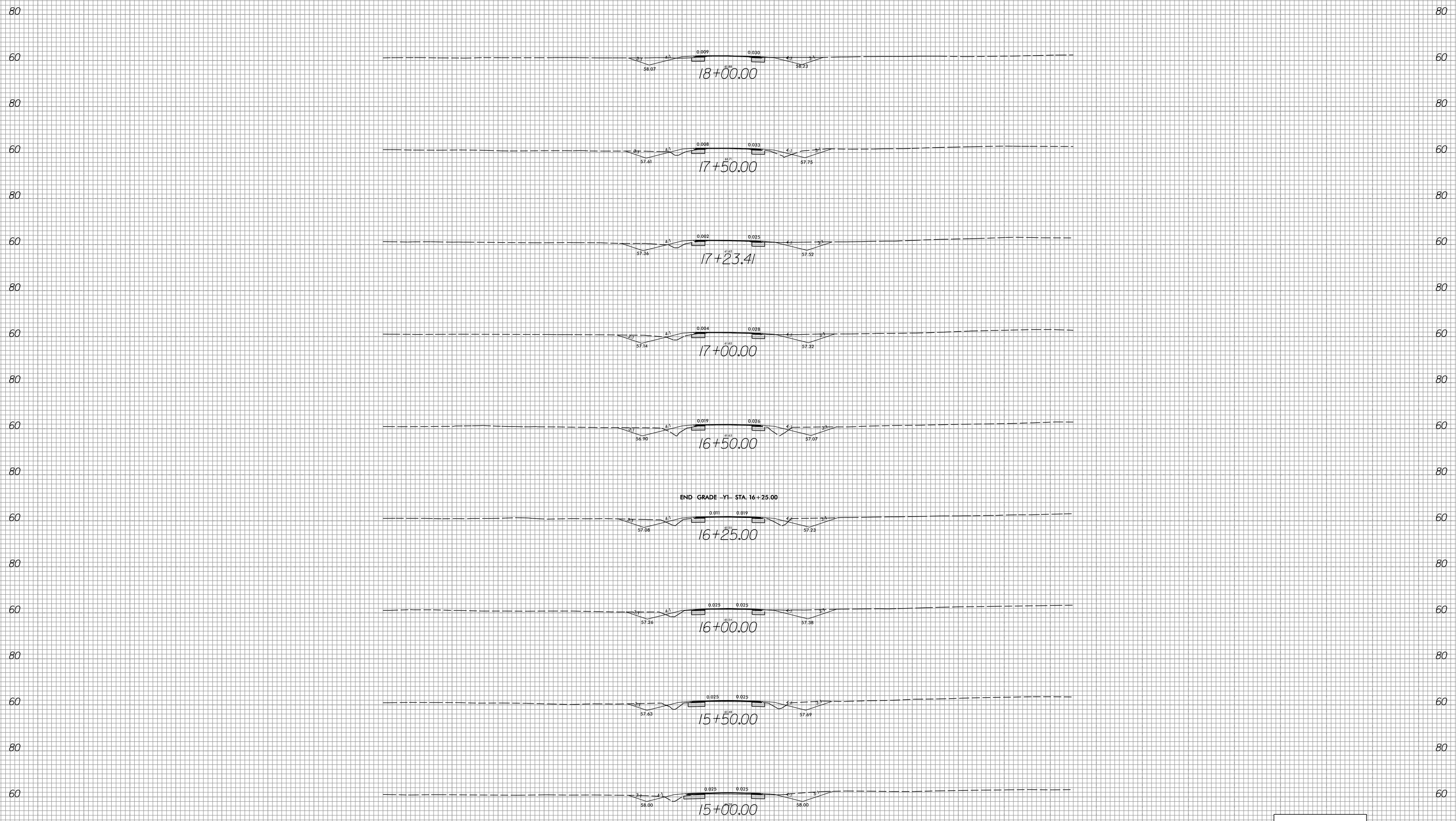
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Grant.Augsburg

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-30

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-Y1-

SHALLOW UNDERCUT EXCAVATION

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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 R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y1.dgn
 Grant, Augsburg

6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-31

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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20+79.42

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19+63.45

19+50.00

19+00.00

18+50.00

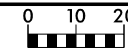
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SHALLOW UNDERCUT EXCAVATION

2/15/2022
R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y1.dgn
Grant.Augsburg

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-32

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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0.025 0.025
25+00.00

0.011 0.025
24+50.00

BEGIN GRADE -Y1- STA. 24 + 25.00
0.004 0.020
24+25.00

0.004 0.027
24+00.00

0.009 0.030
23+50.00

0.009 0.034
23+00.00

0.015 0.033
22+50.00

0.016 0.031
22+44.35

0.016 0.038
22+00.00

-Y1-

SHALLOW UNDERCUT EXCAVATION

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

2/15/2022
R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y1.dgn
Grant.Augsburg

6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-33

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

29+00.00

28+50.00

28+00.00

27+74.67

27+50.00

27+00.00

26+50.00

26+00.00

25+50.00

-Y/-

SHALLOW
UNDERCUT
EXCAVATION

2/15/2022
R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y1.dgn
Grant, Augsburg

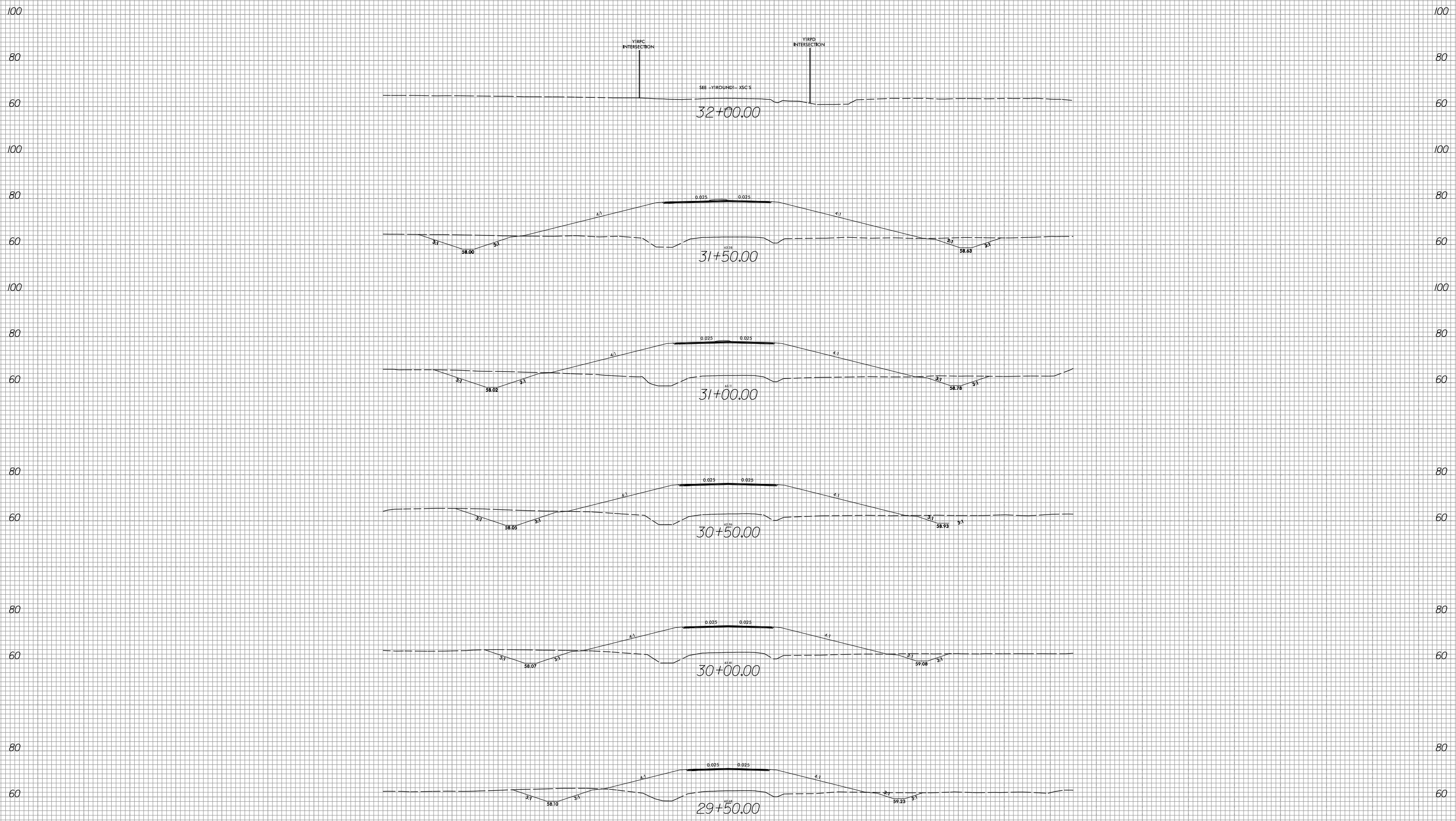
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-34

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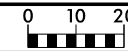


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300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

2/15/2022
D:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y1.dgn
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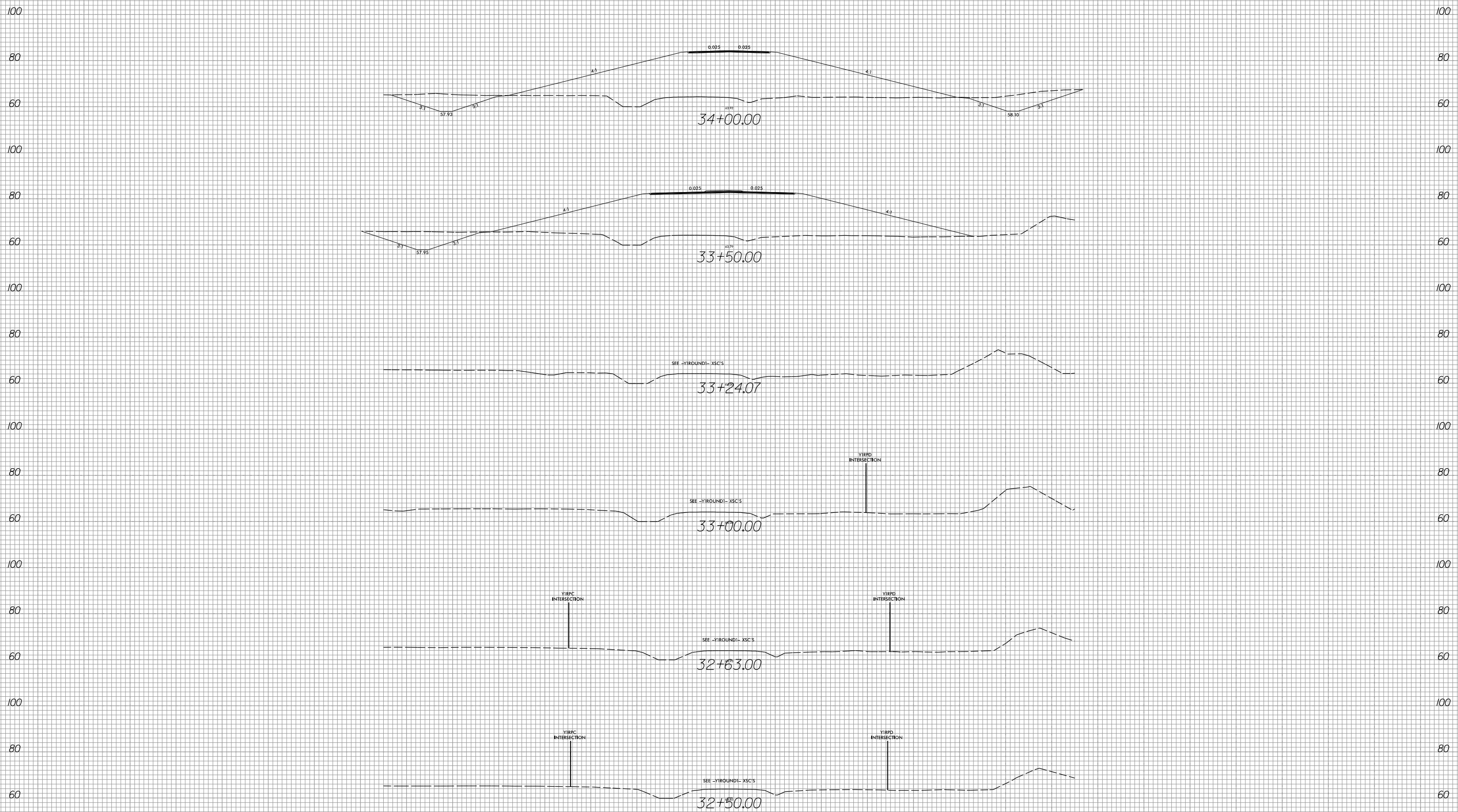
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-35

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

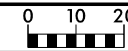


-YI-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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Grant\Augburg

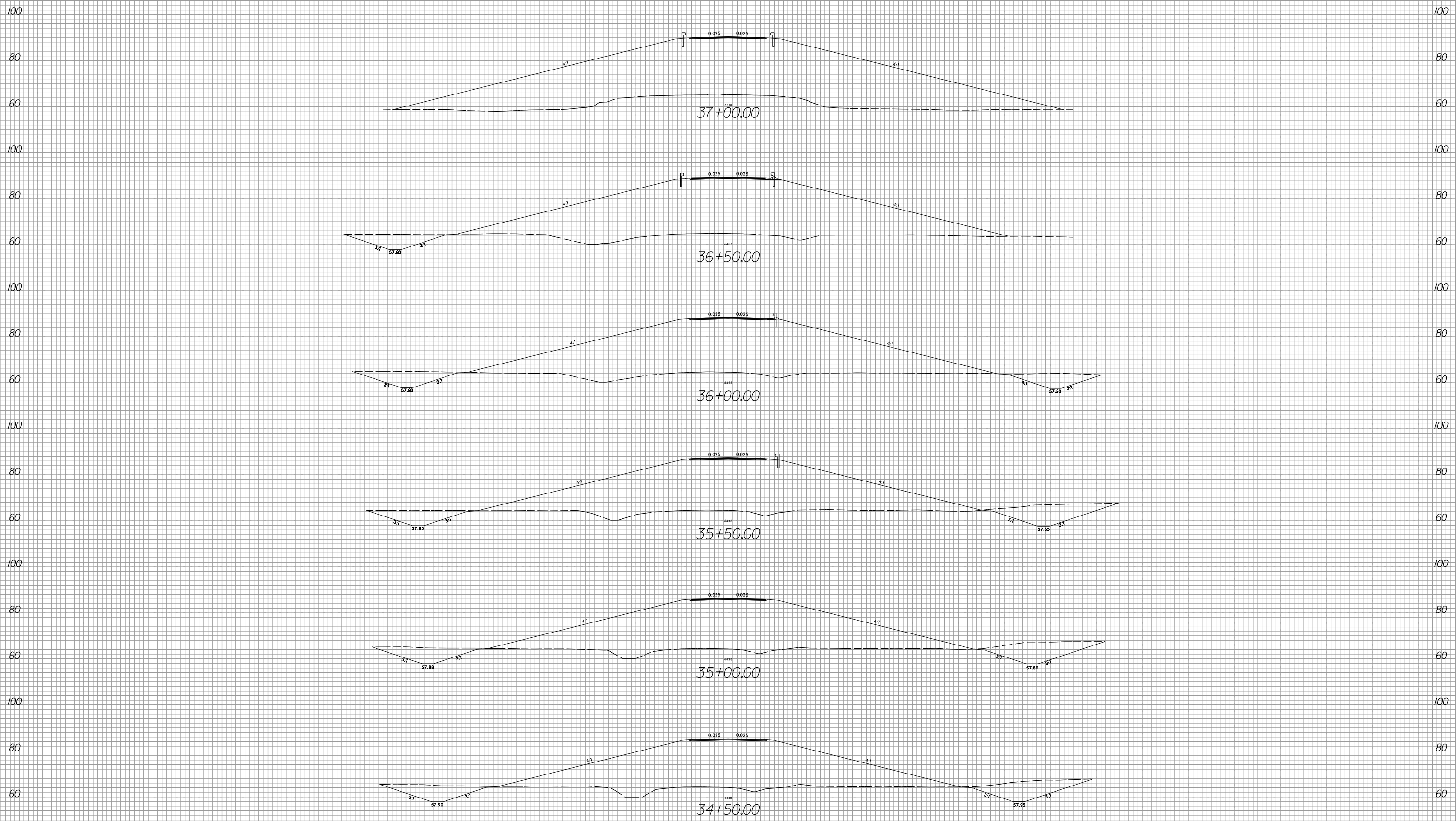
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-36

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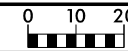


-Y/-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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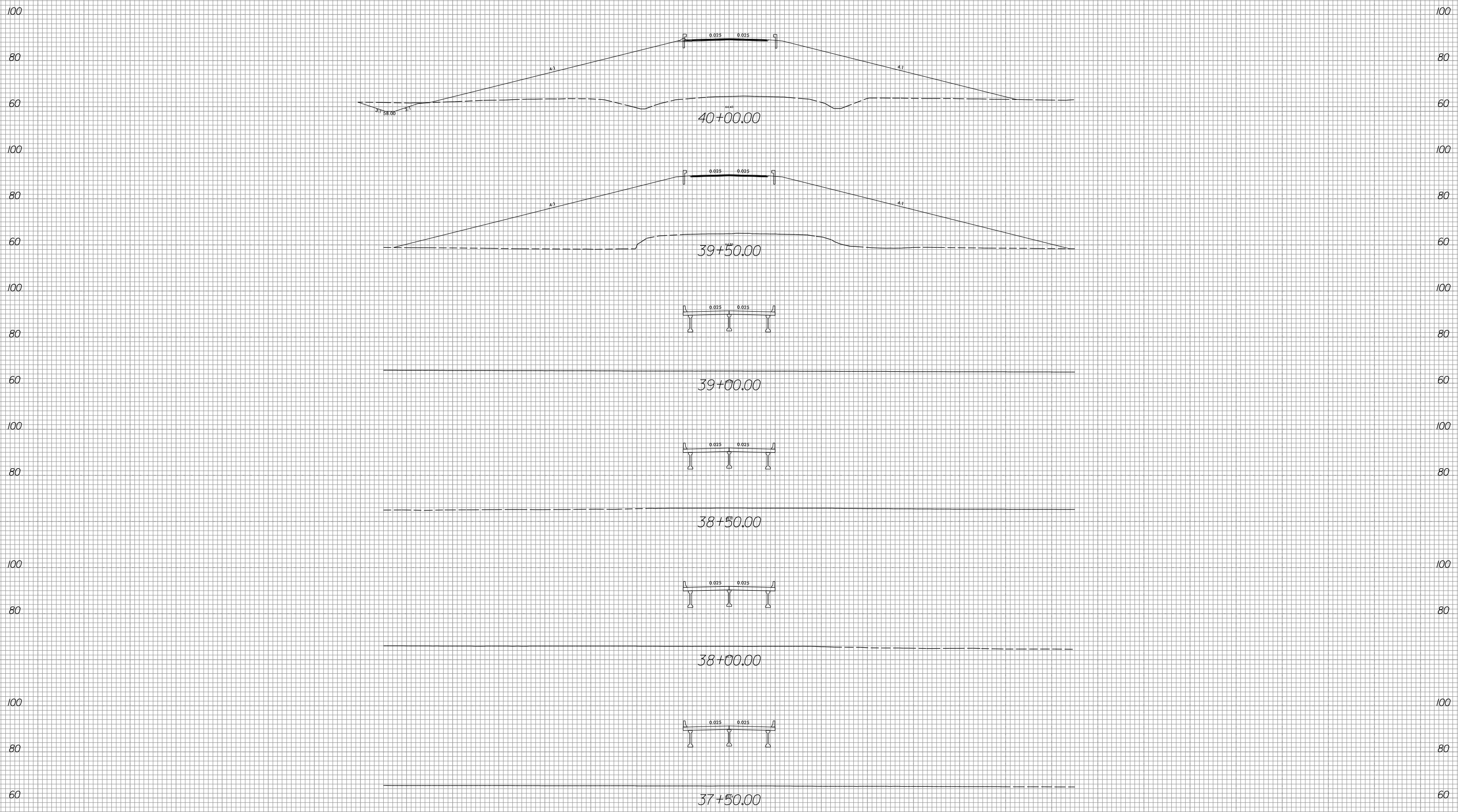
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-37

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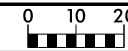


300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

-Y/-

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Grant.Augsburg

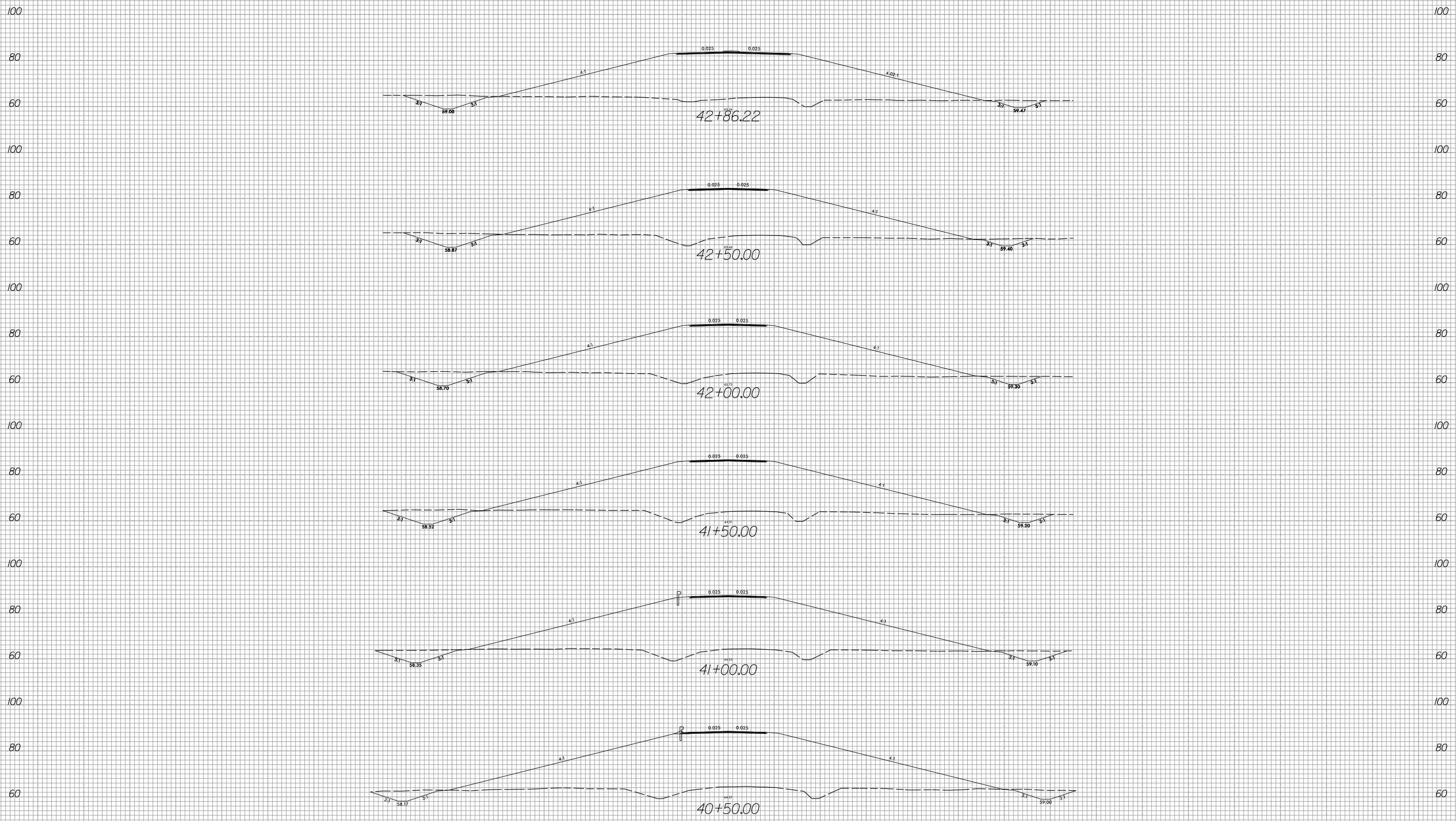
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-38

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



-Y/-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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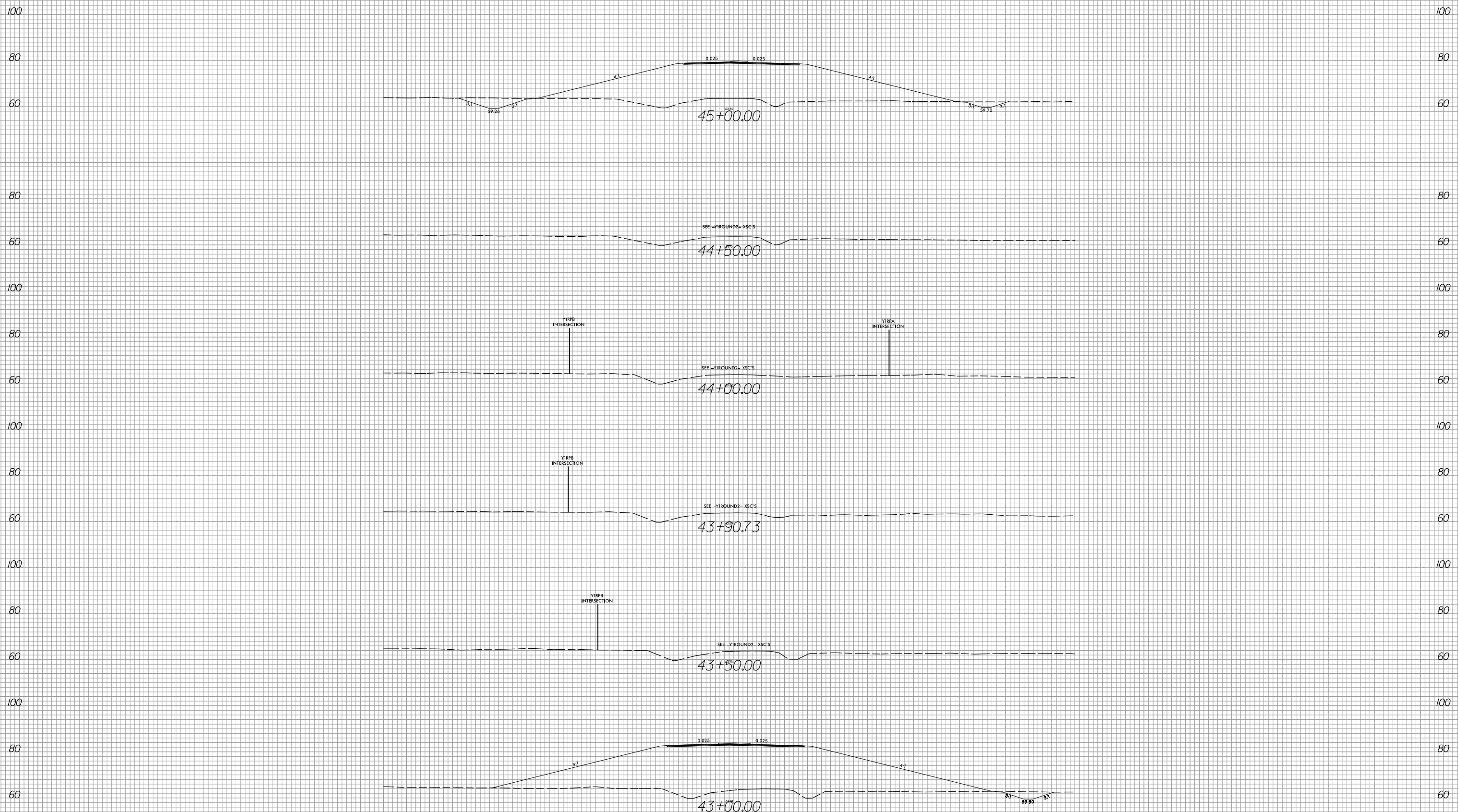
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-39

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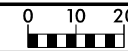


-YI-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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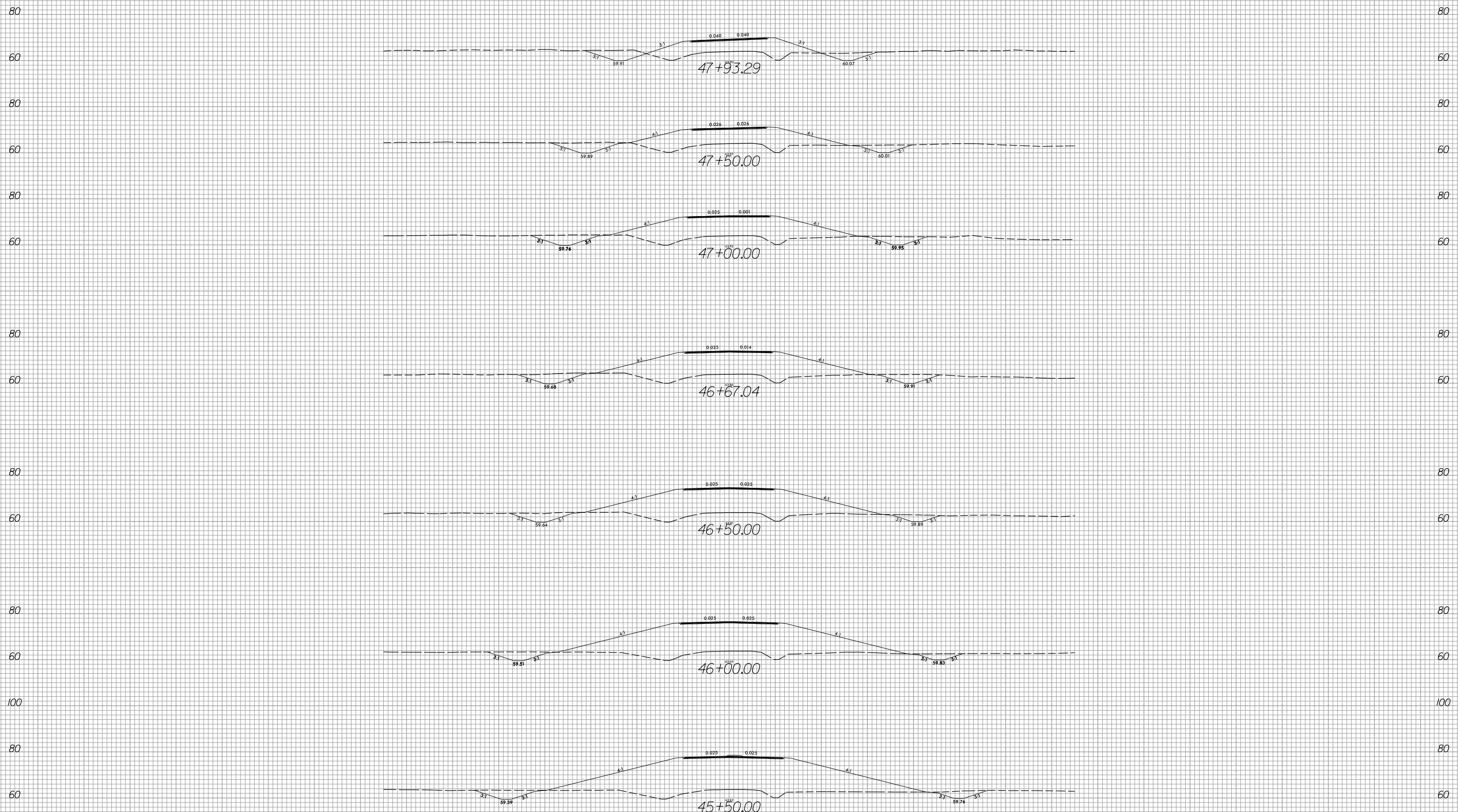
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-40

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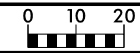


-Y/-

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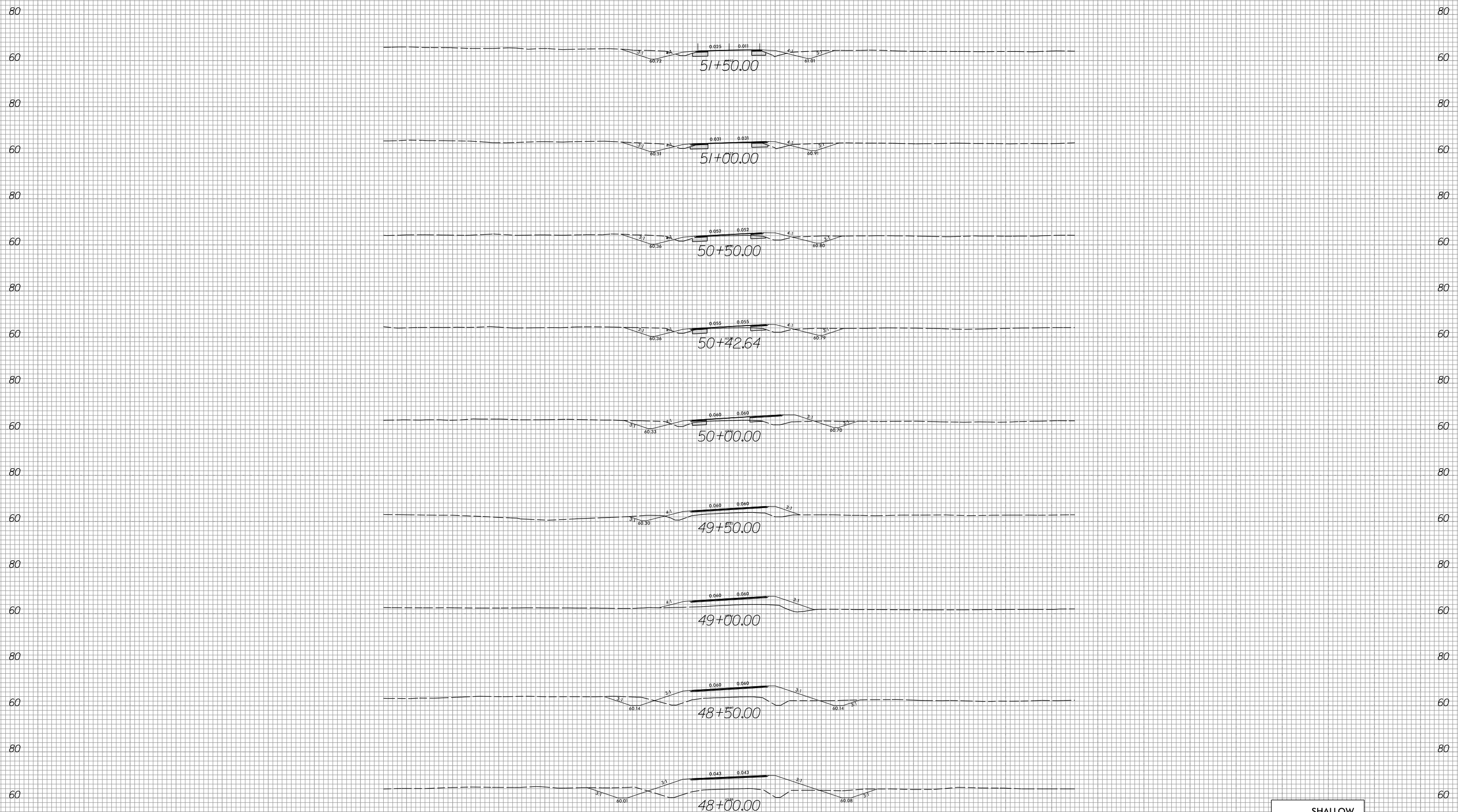
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PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-41

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



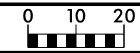
SHALLOW UNDERCUT EXCAVATION

-Y1-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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 R:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y1.dgn
 Grant.Augsburg

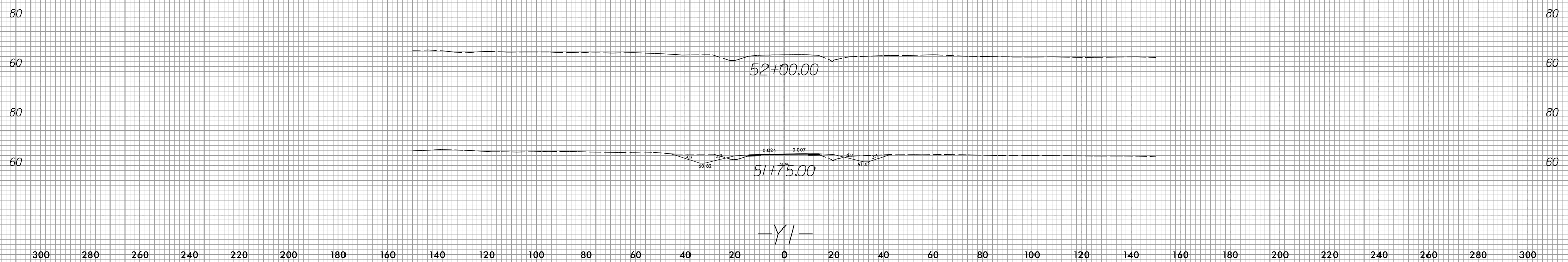
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-42

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



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 R:\Roadway\Corridor\Mode Ling\RS819_R5820_RDY_XPL_Y1.dgn
 Grant, Augsburg

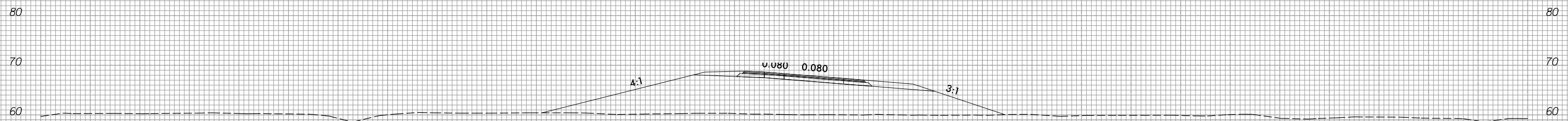
6/23/16



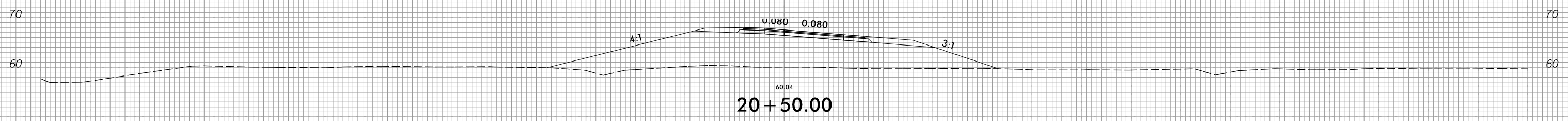
PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-43

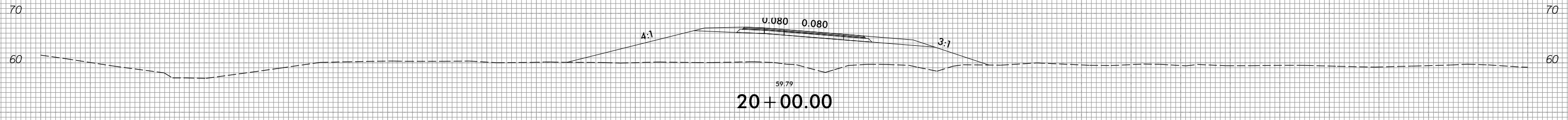
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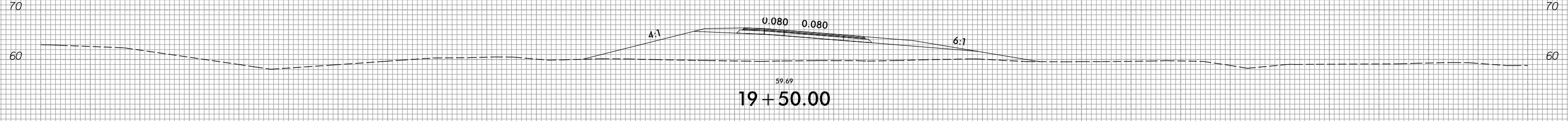
21+00.00



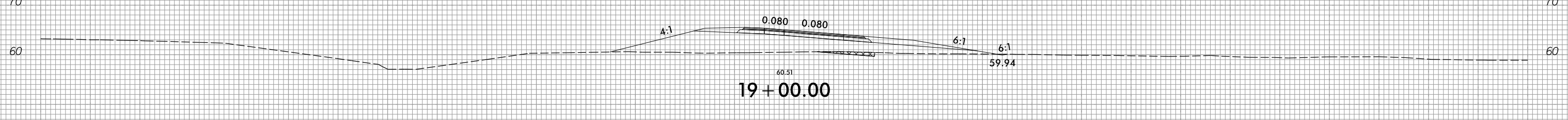
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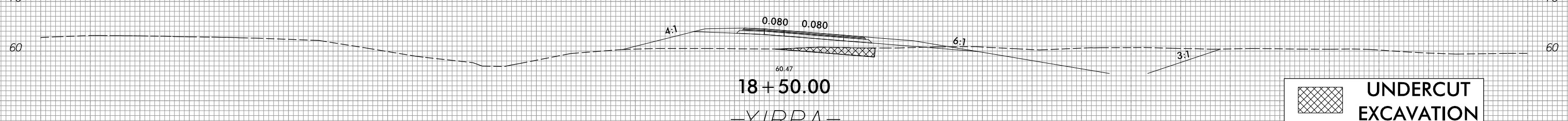
20+00.00



19+50.00



19+00.00



18+50.00

-YIRPA-

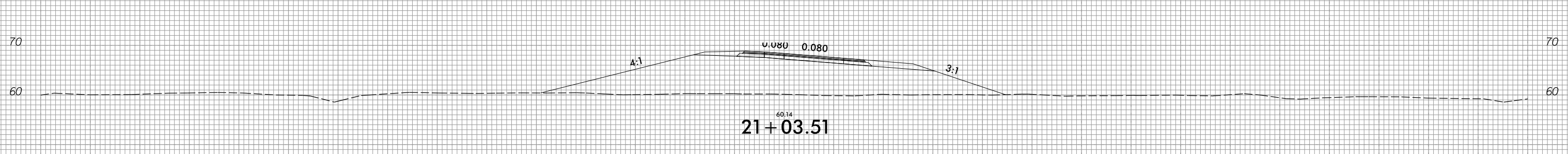
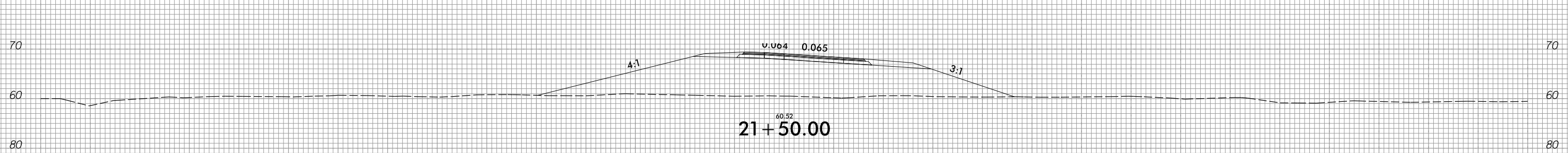
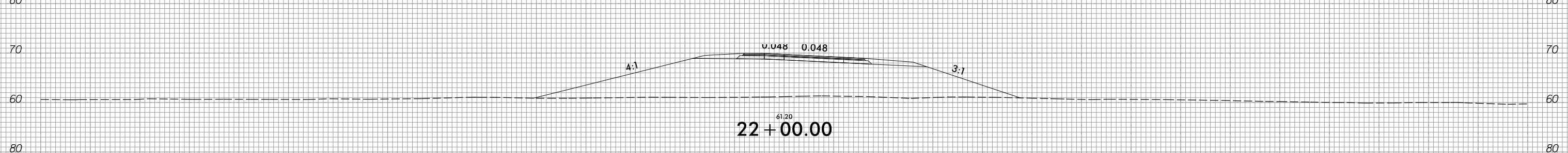
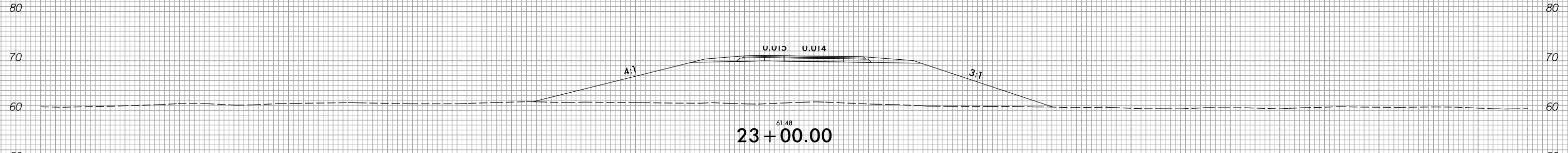
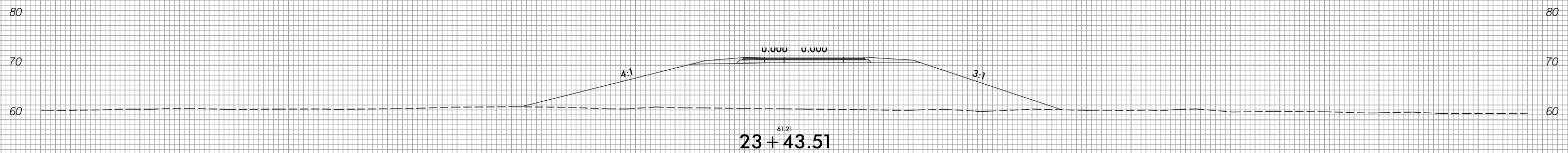
UNDERCUT EXCAVATION

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-YIRPA-

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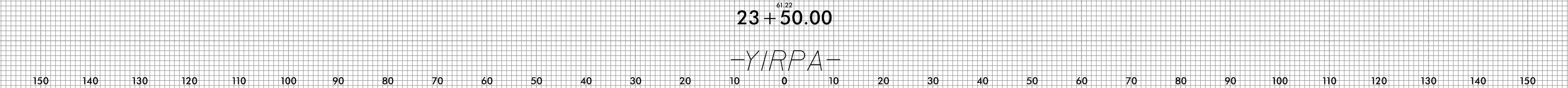
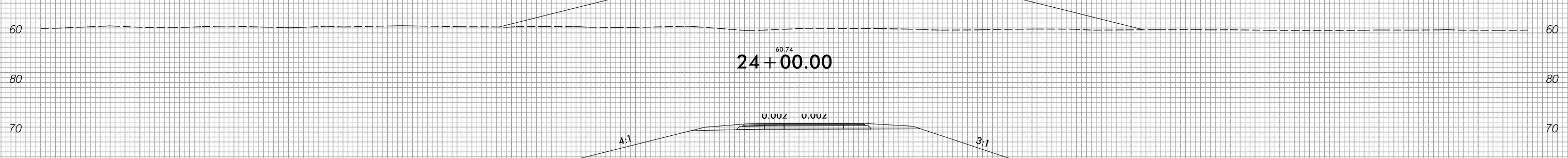
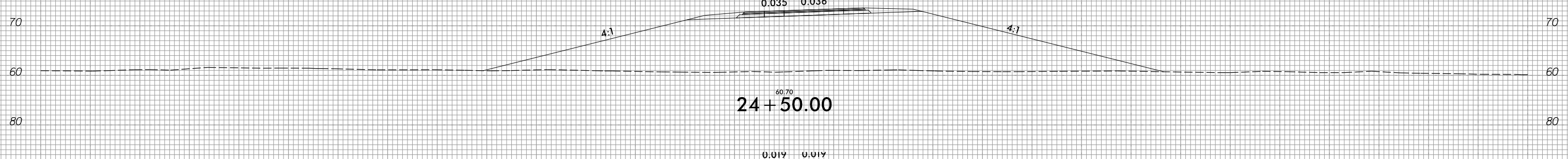
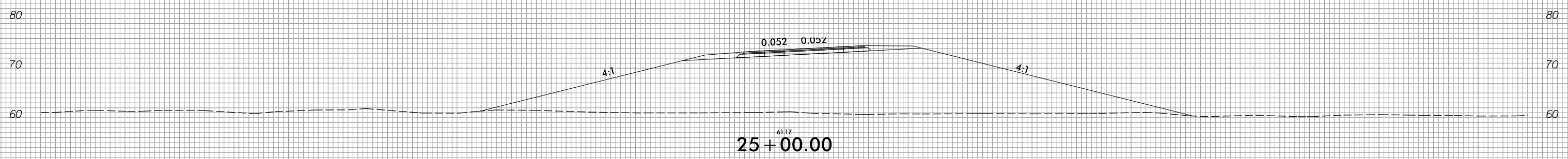
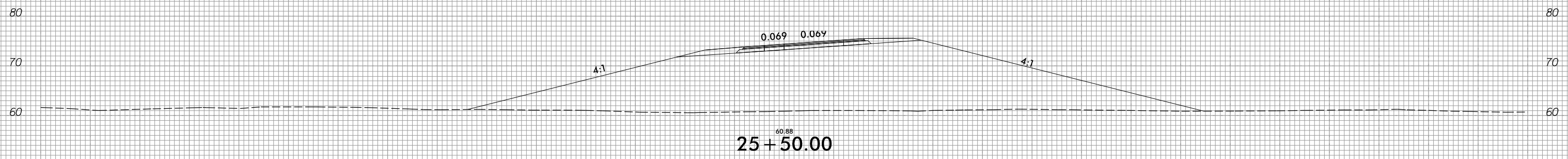
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-45

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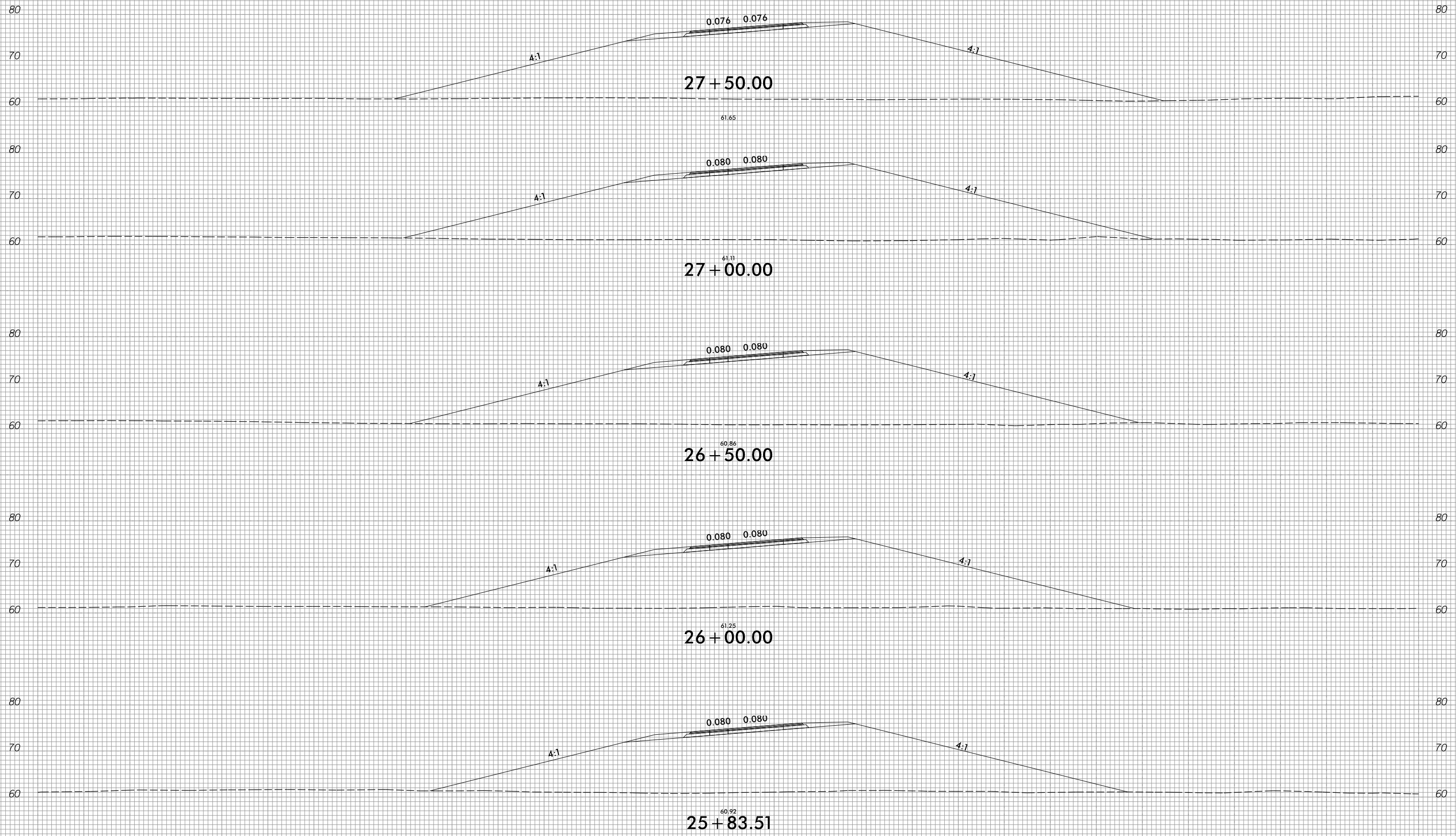
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PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-46

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



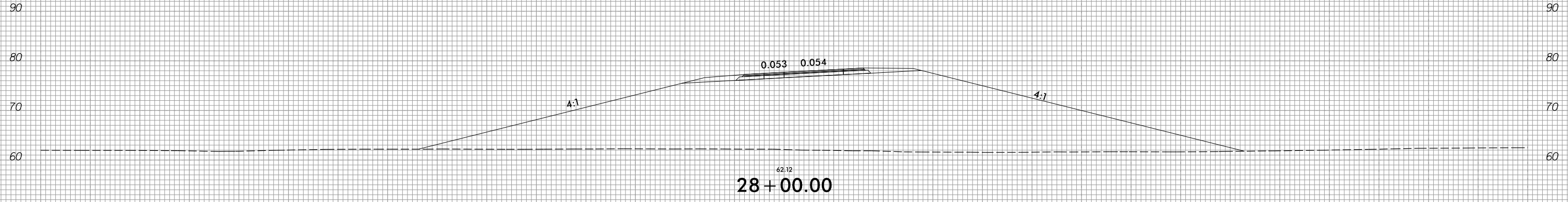
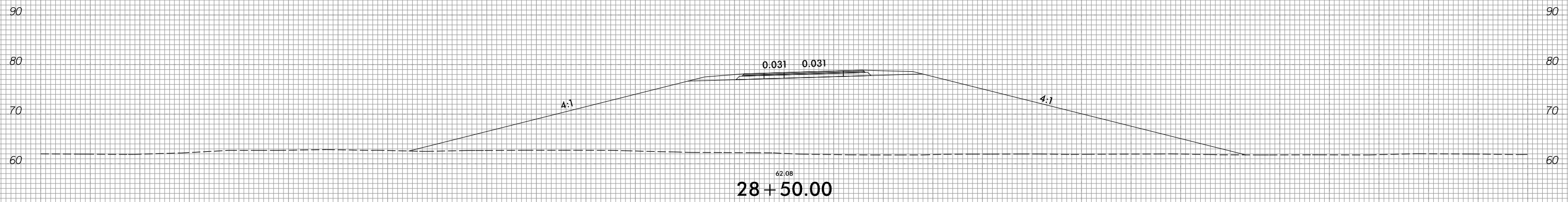
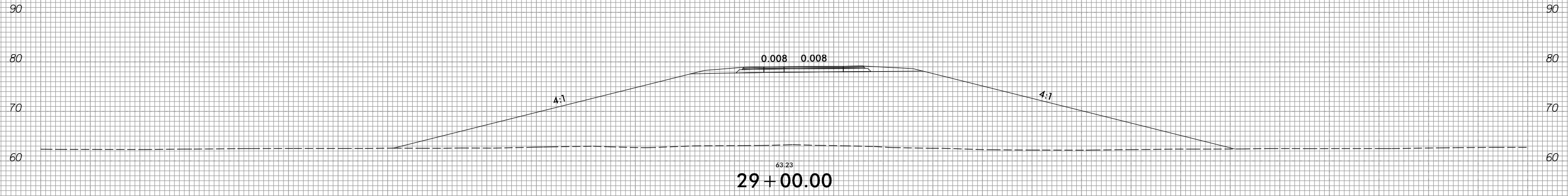
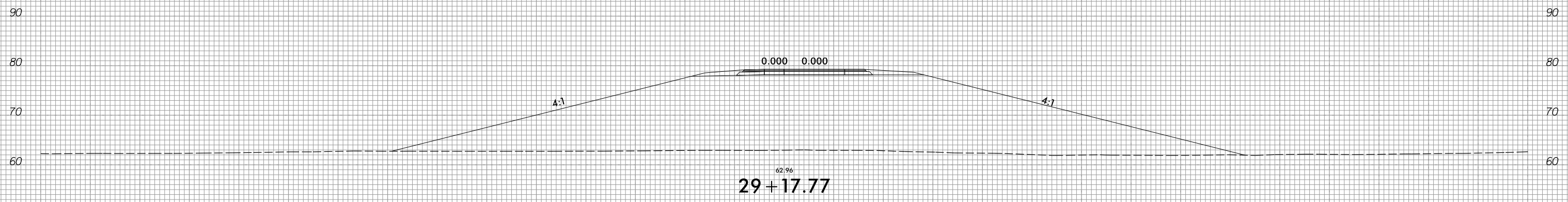
-YIRPA-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-YIRPA-

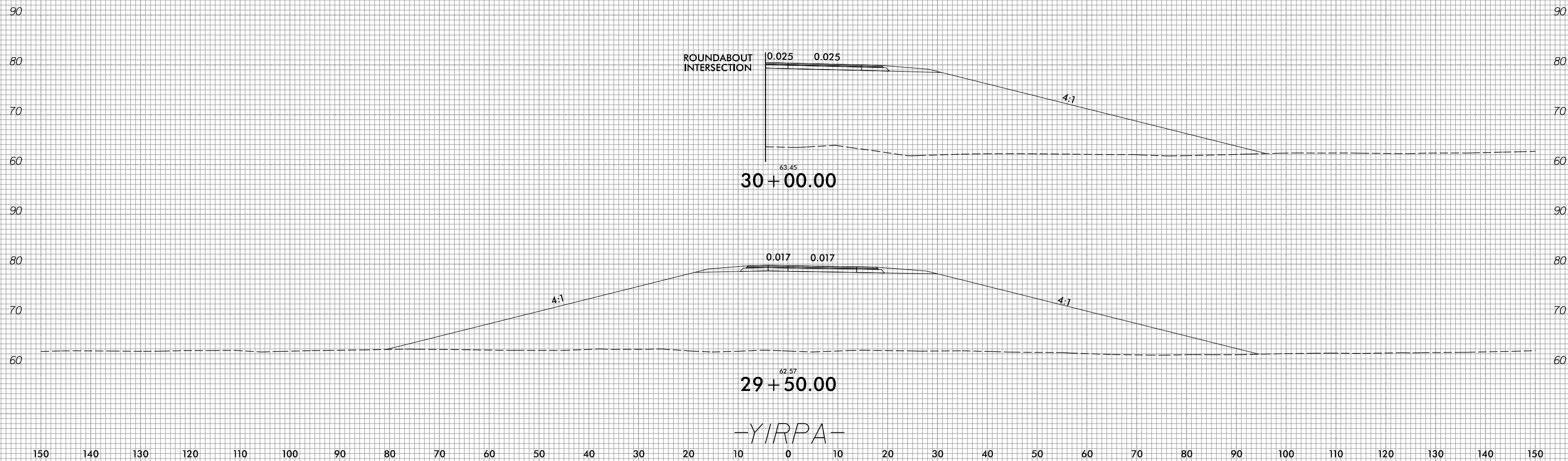
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-48

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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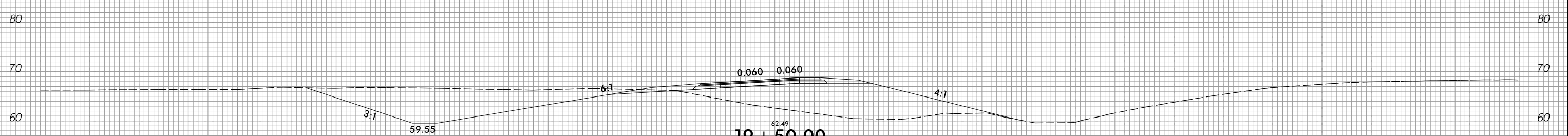
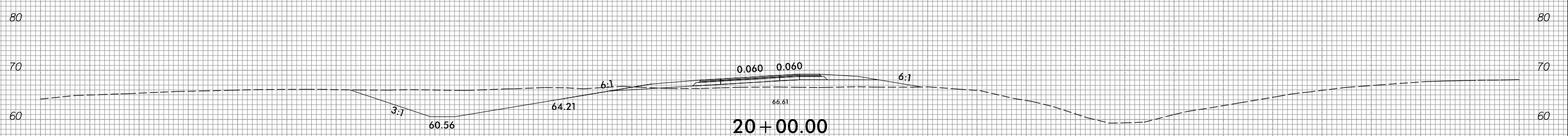
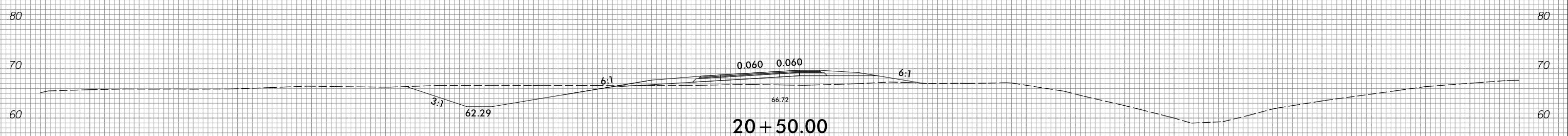
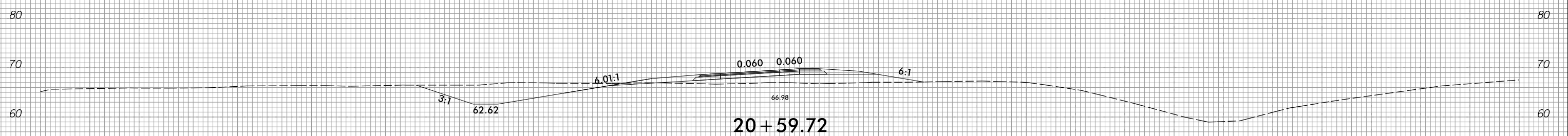
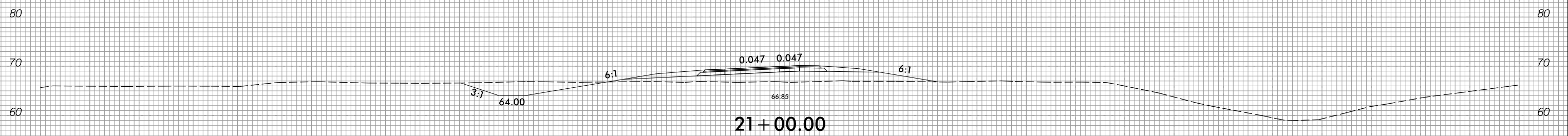
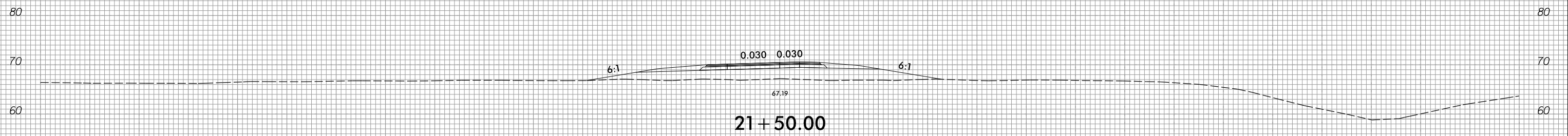
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-49

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-YIRPB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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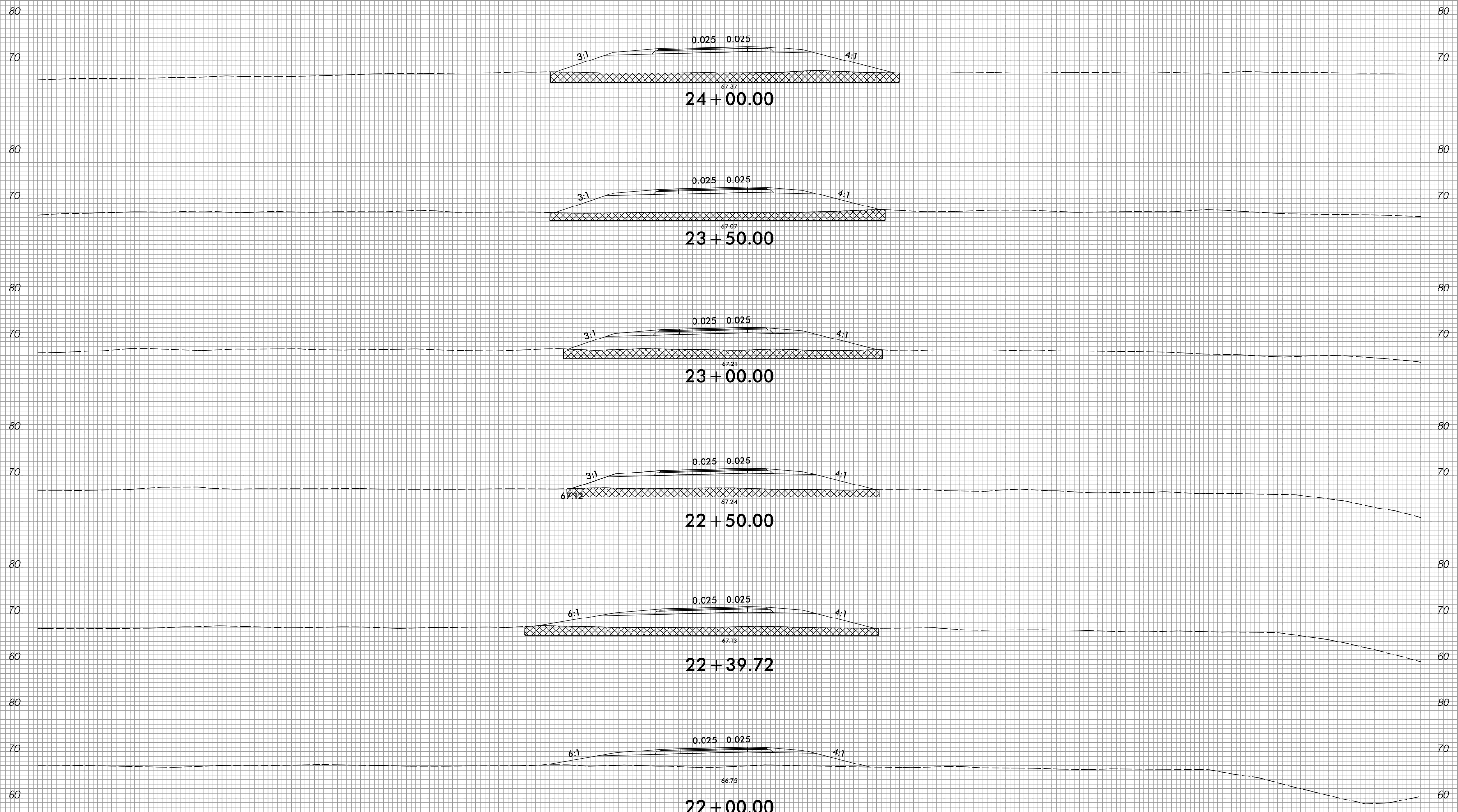
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-50

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



 UNDERCUT EXCAVATION

-YIRPB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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Grant.Augsburg

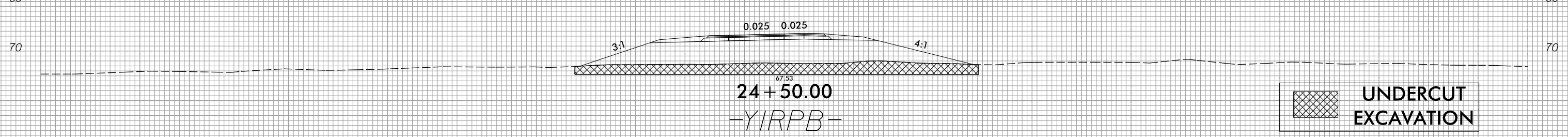
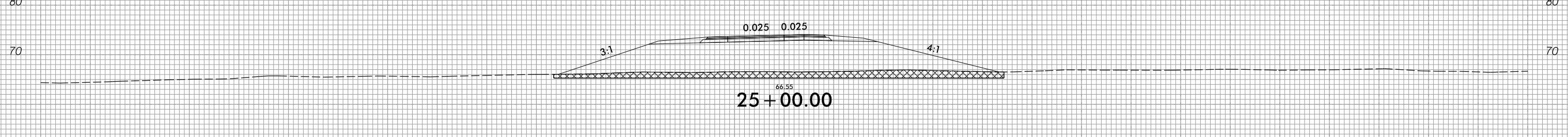
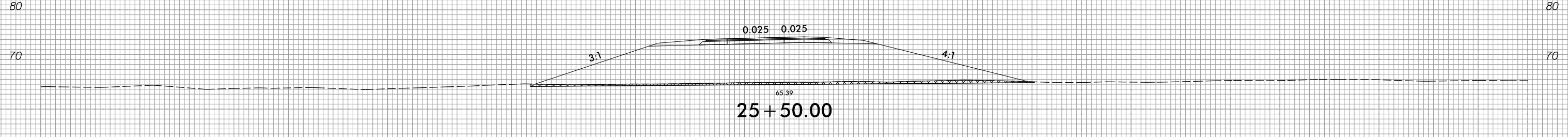
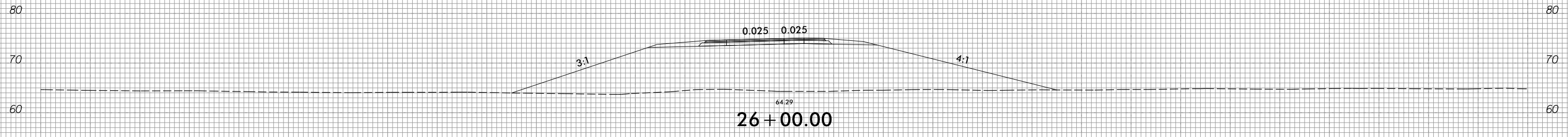
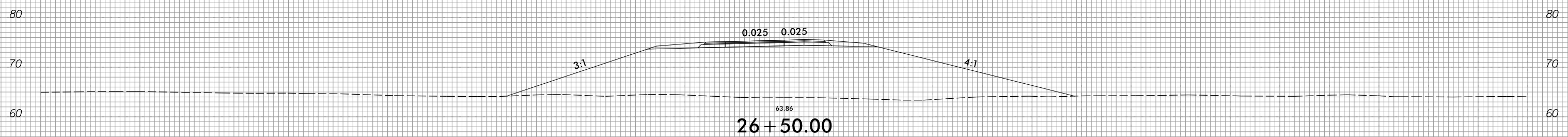
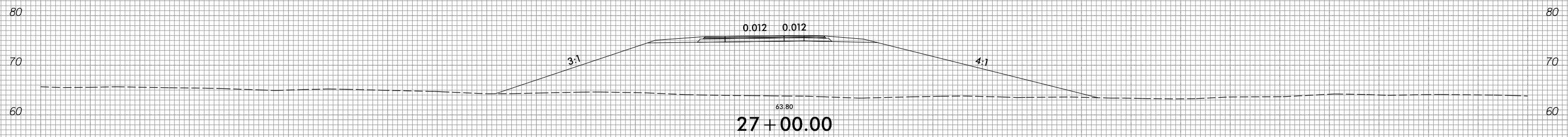
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-51

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UNDERCUT EXCAVATION

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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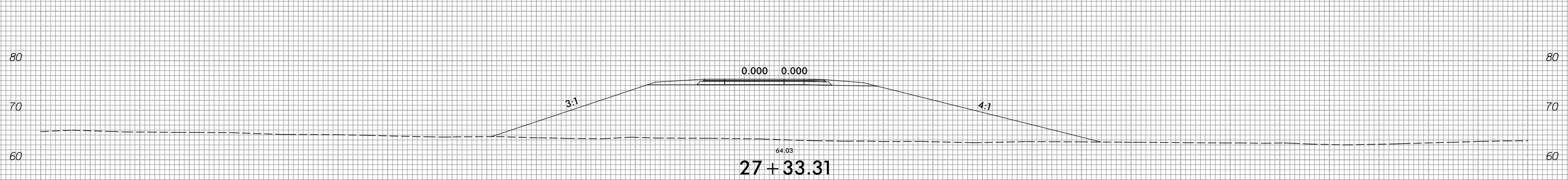
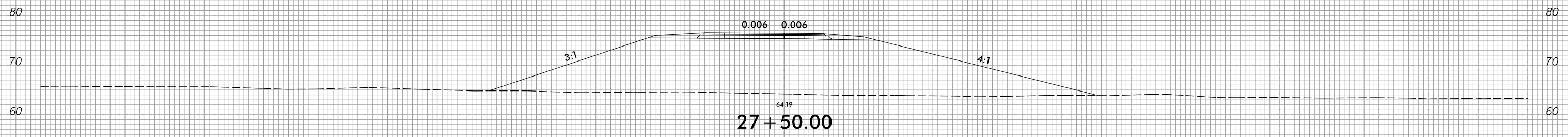
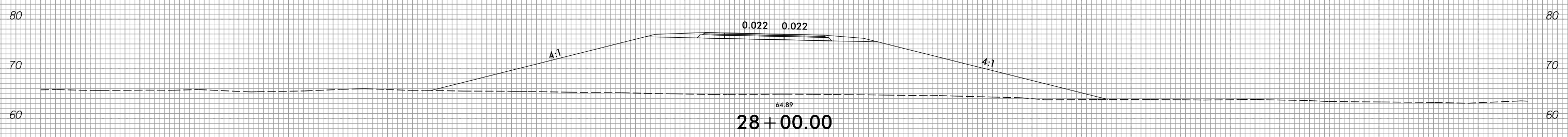
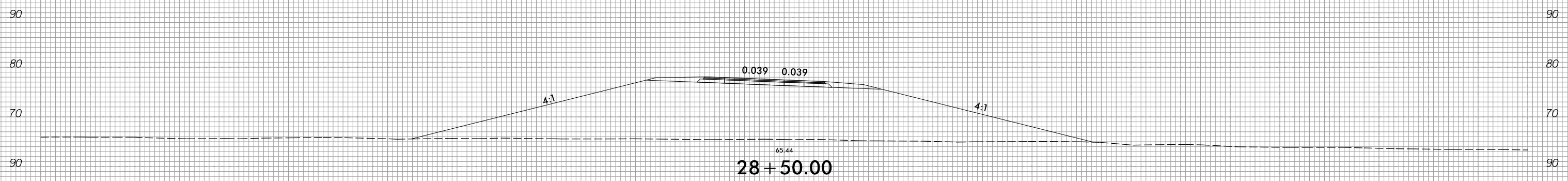
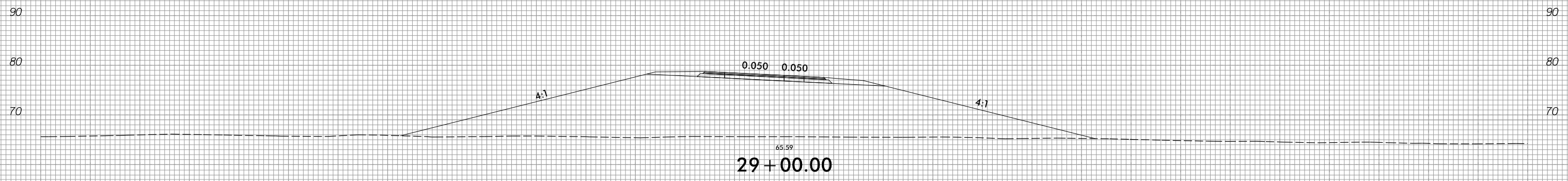
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-52

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-YIRPB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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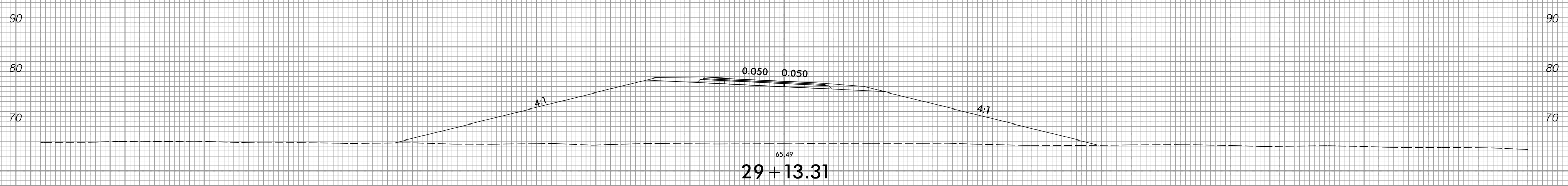
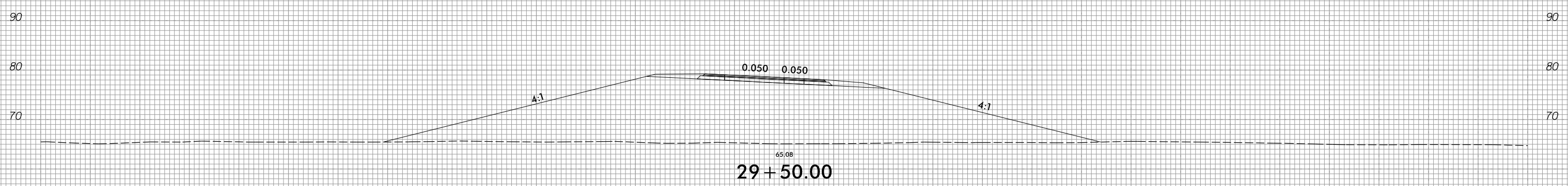
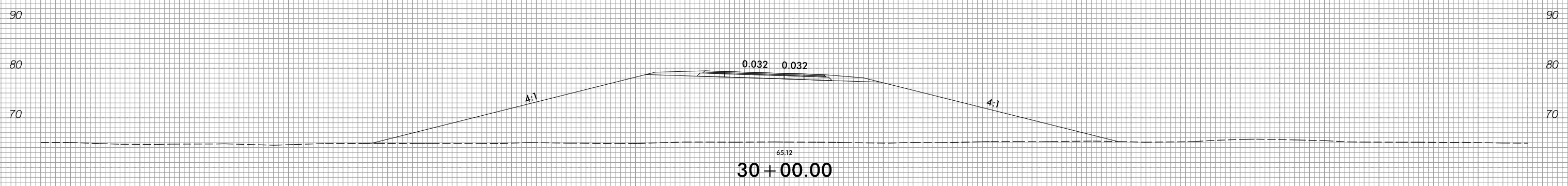
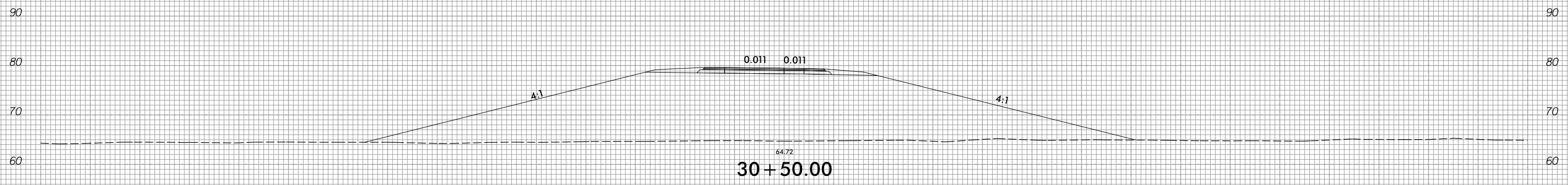
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-53

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-YIRPB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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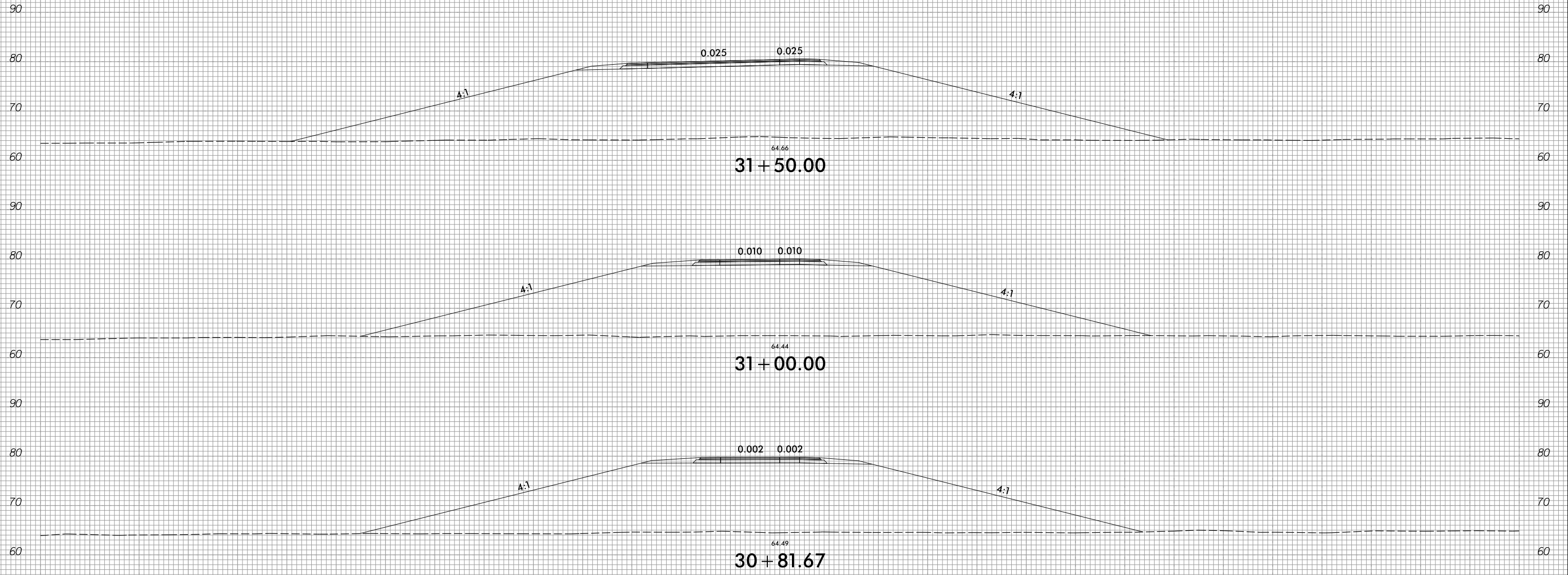
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-54

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

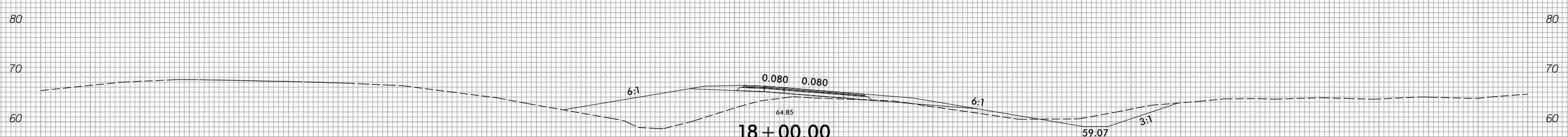
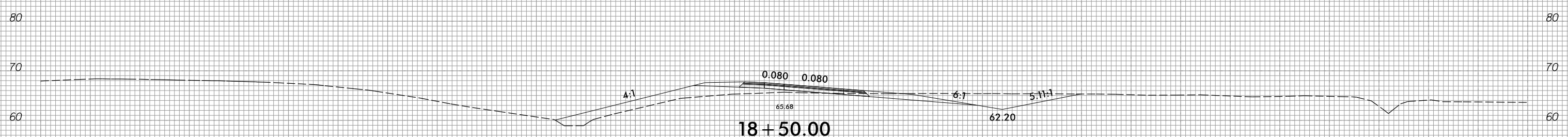
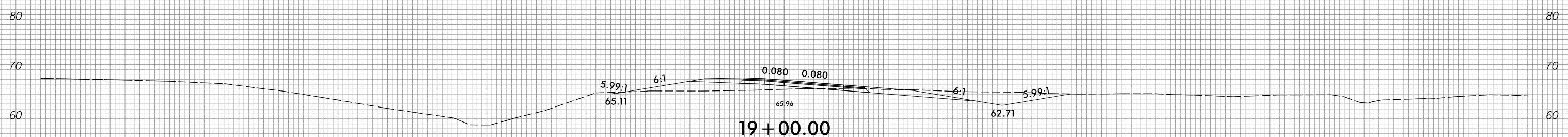
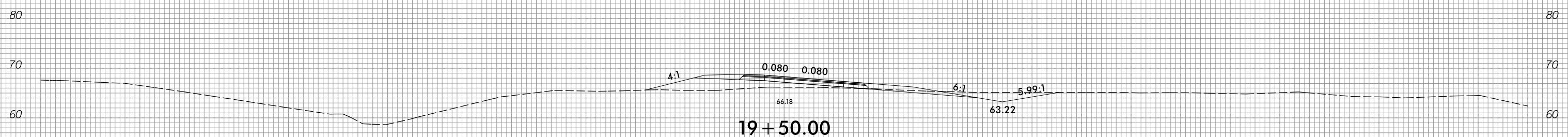
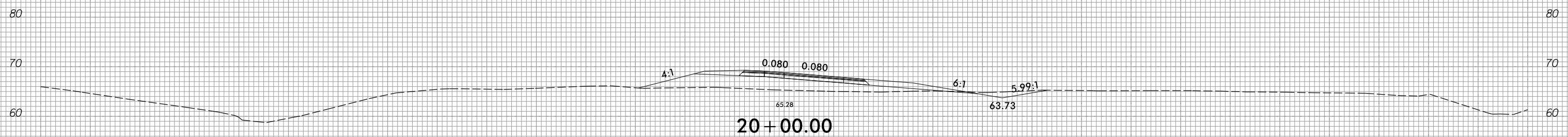
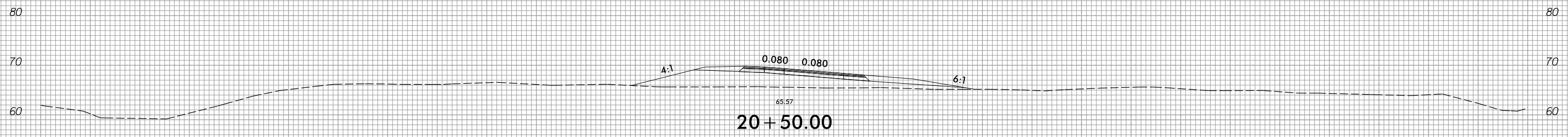


-YIRPB-

2/15/2022
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-YIRPC-

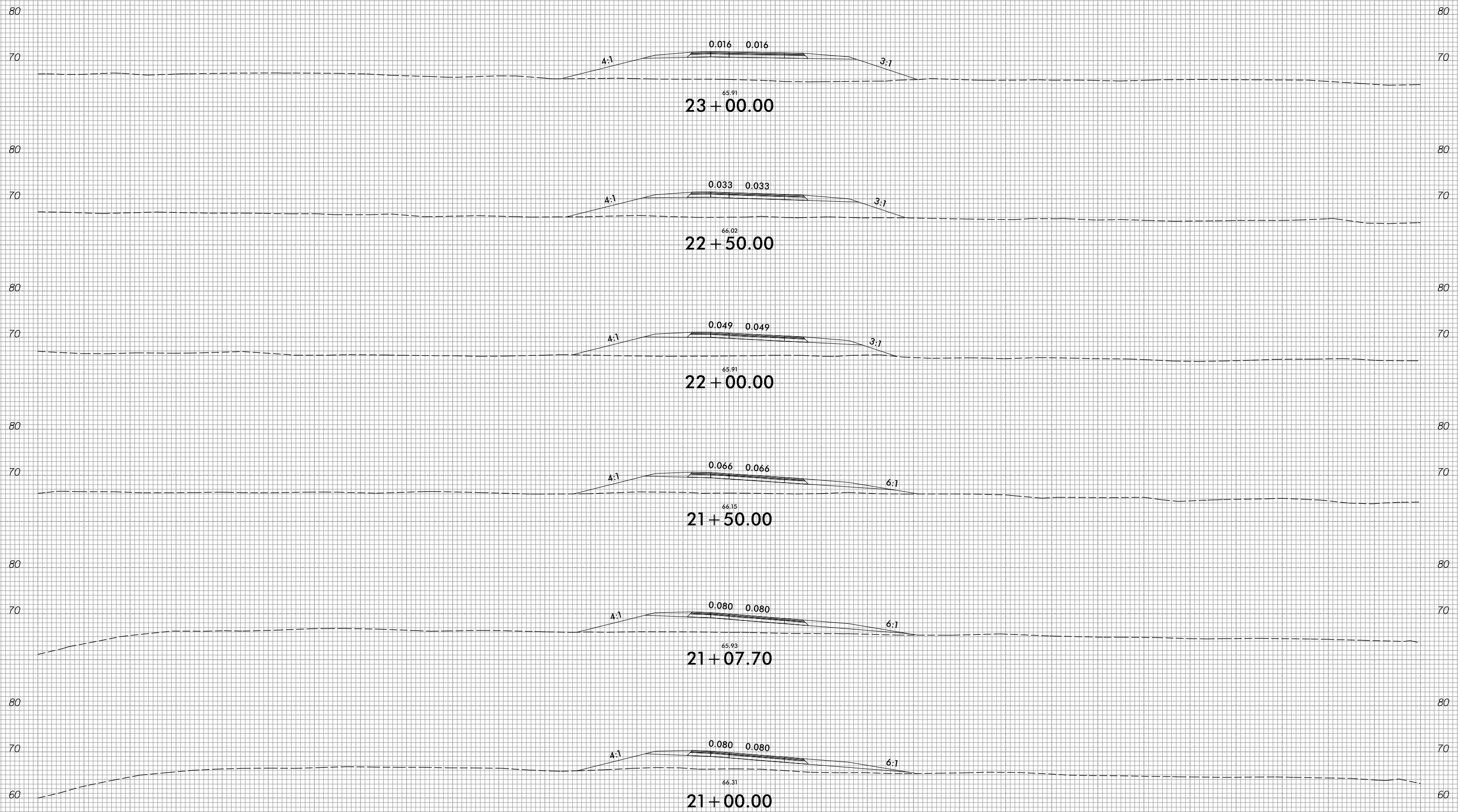
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-56

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-YIRPC-

2/15/2022
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Grant, Augsburg

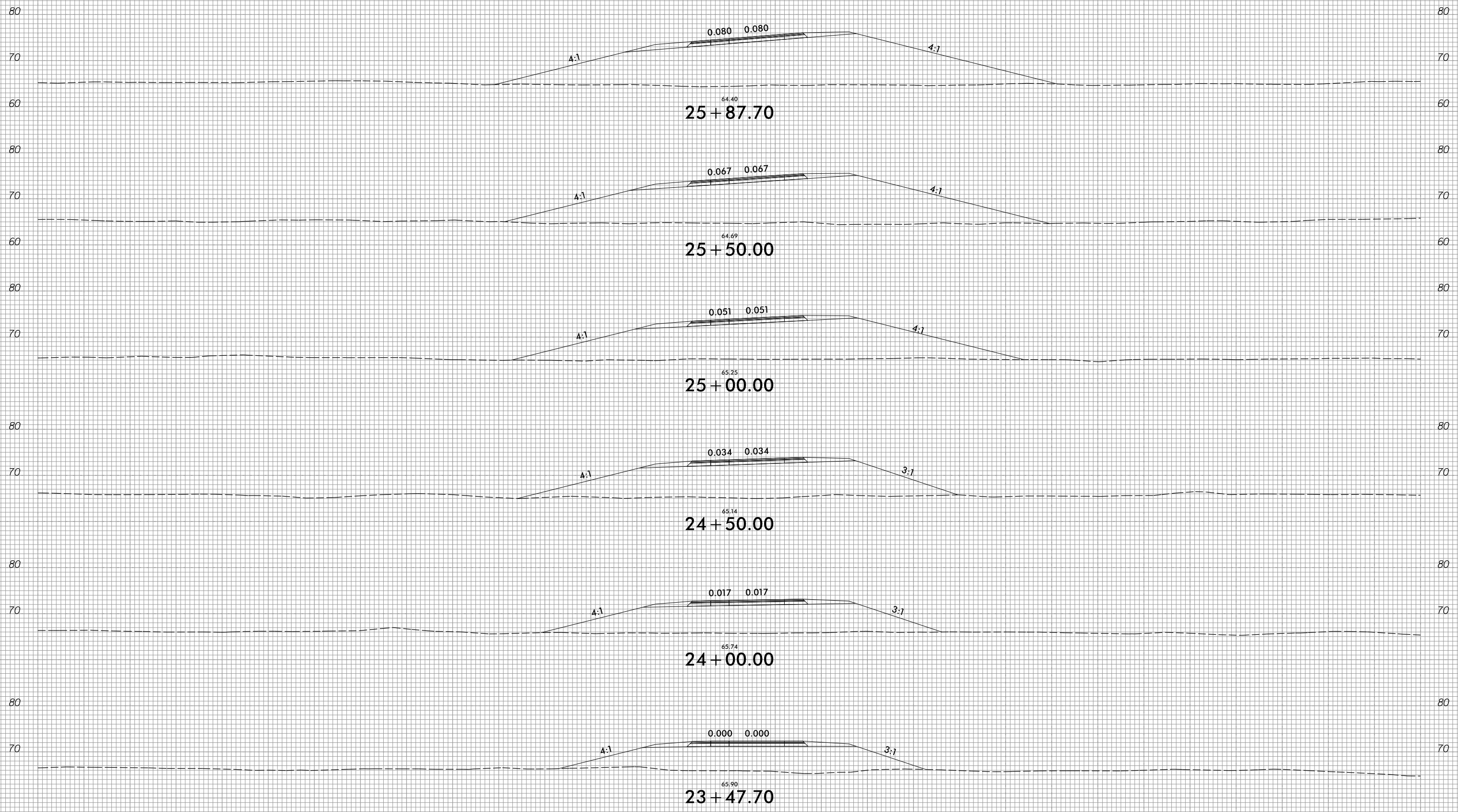
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-57

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-YIRPC-

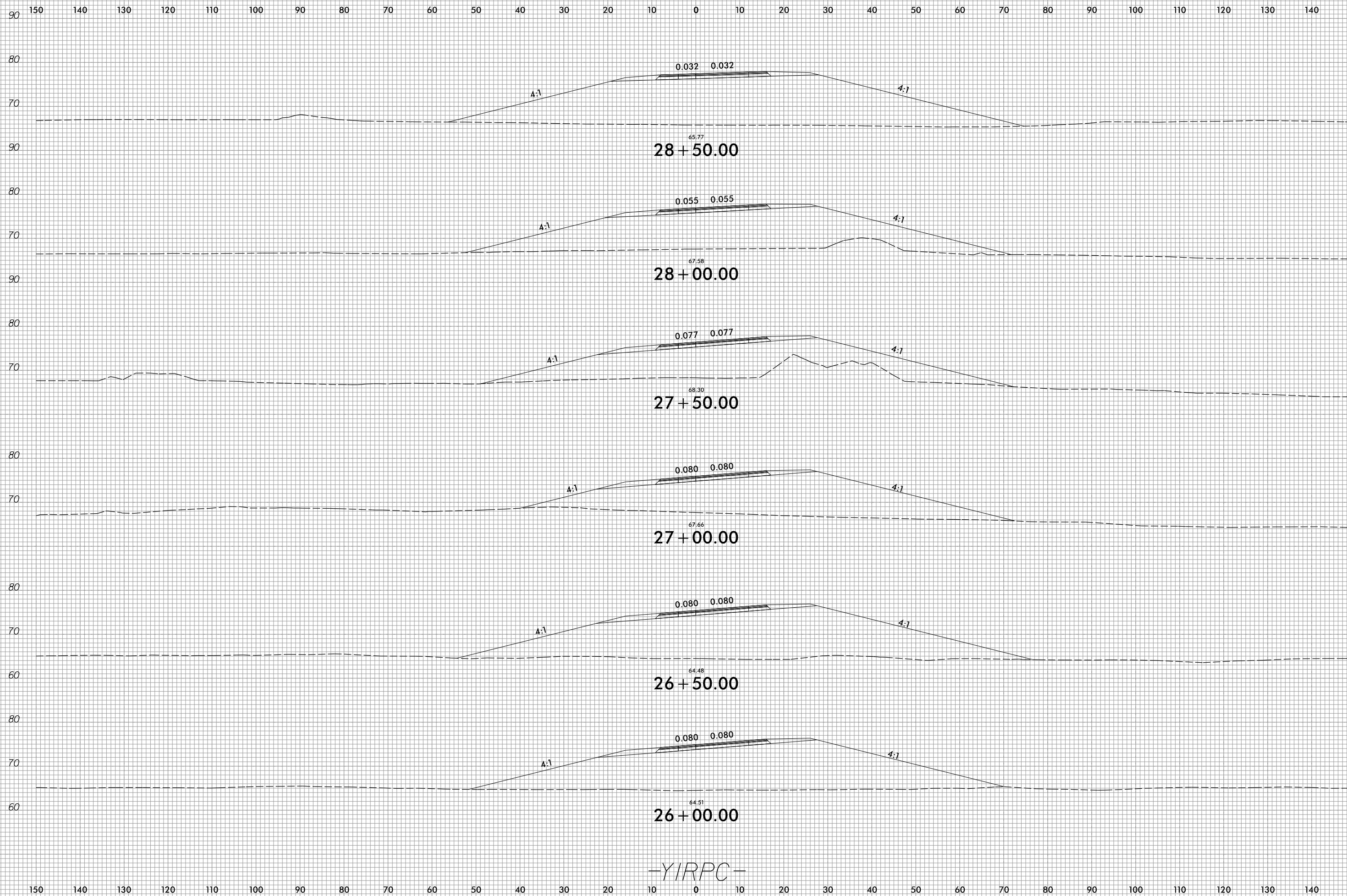
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-58



2/15/2022
 R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_YIRPC.dgn
 Grant, Augsburg

-YIRPC-

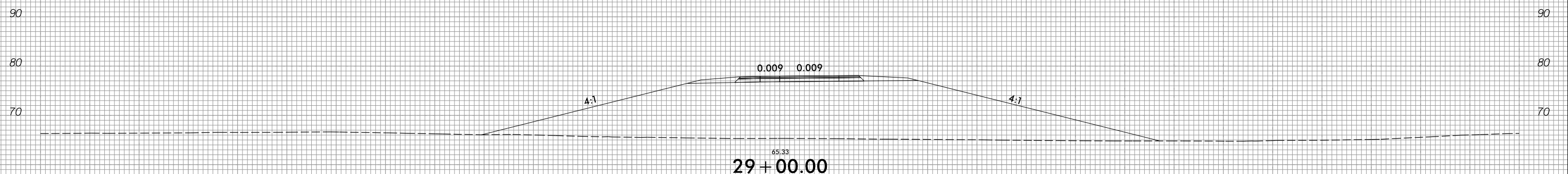
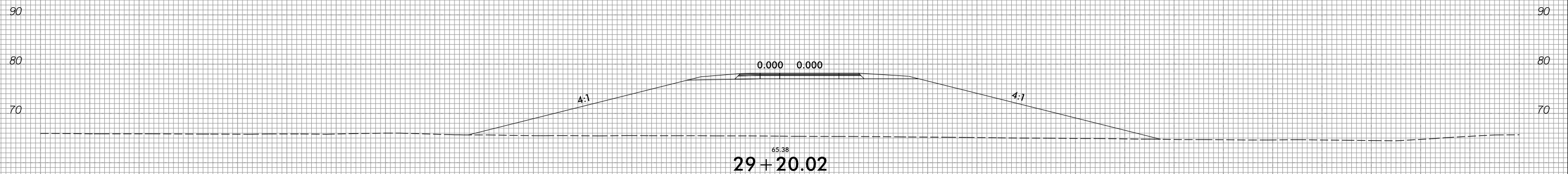
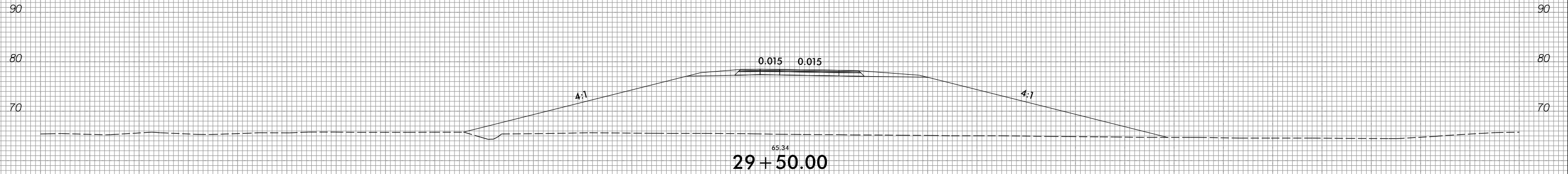
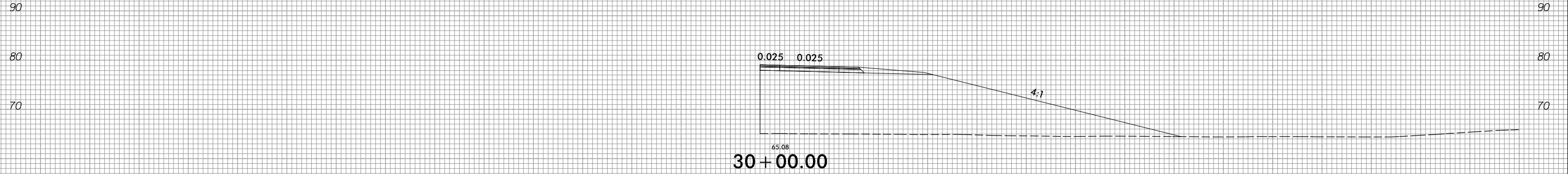
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-59

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-YIRPC-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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Grant, Augsburg

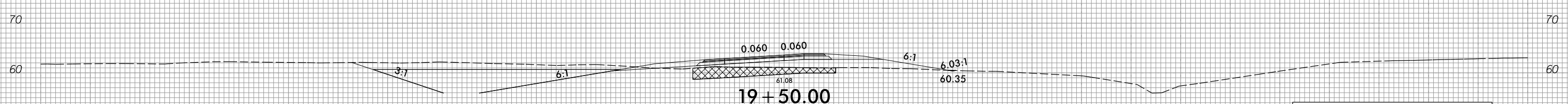
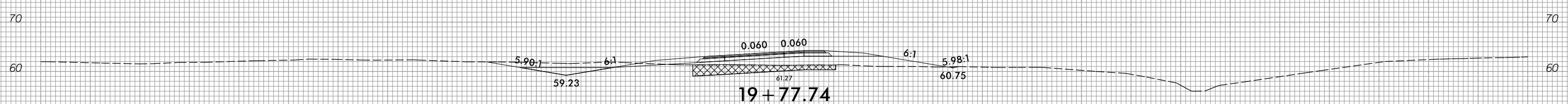
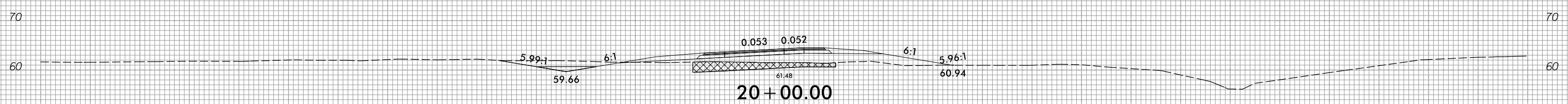
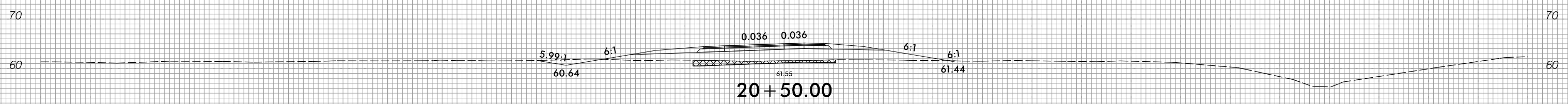
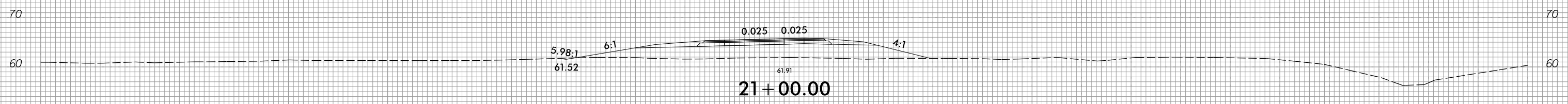
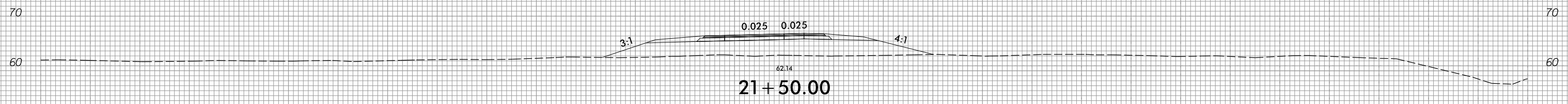
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-60

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-YIRPD-

UNDERCUT EXCAVATION

2/15/2022
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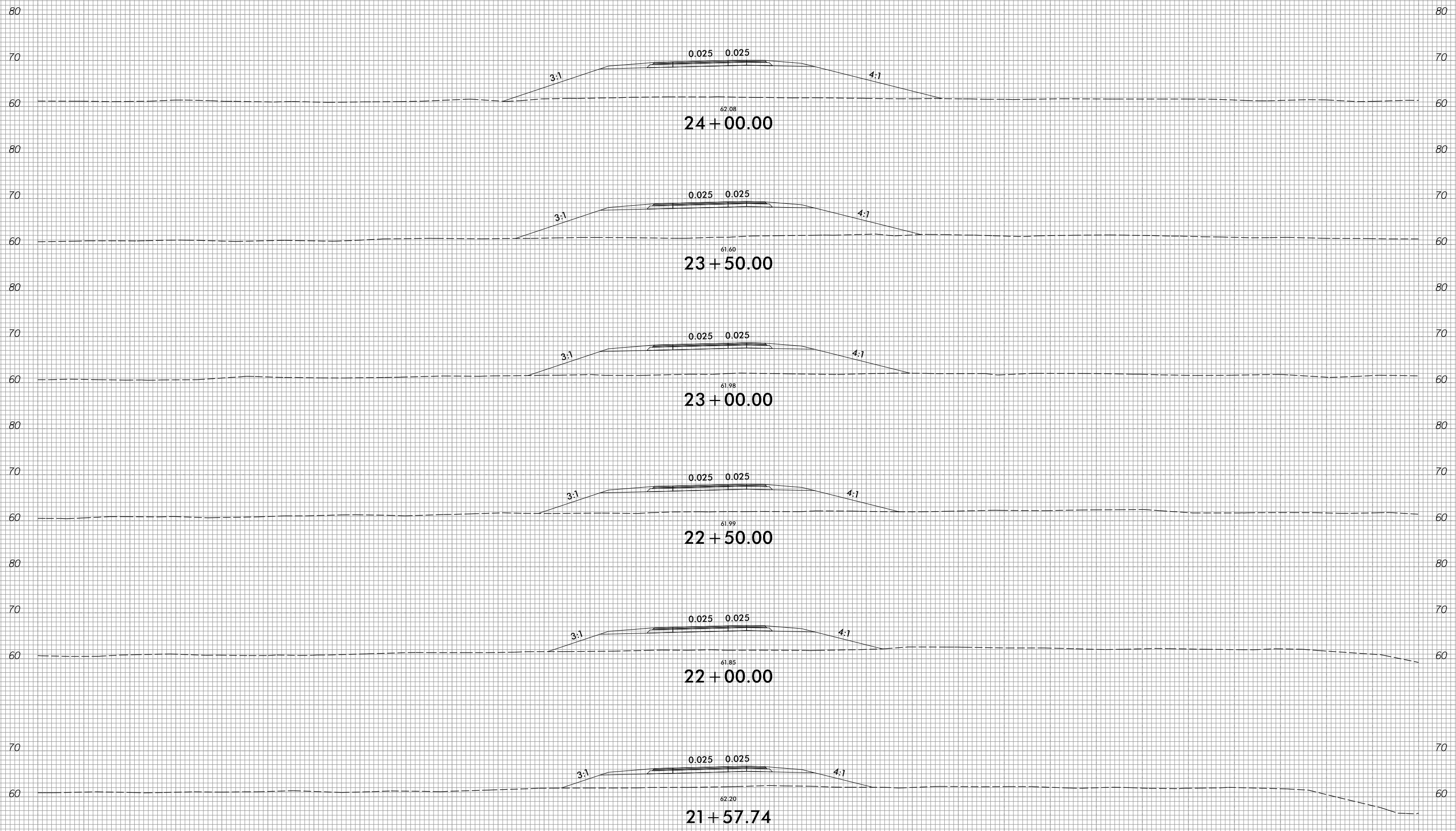
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-61

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-YIRPD-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

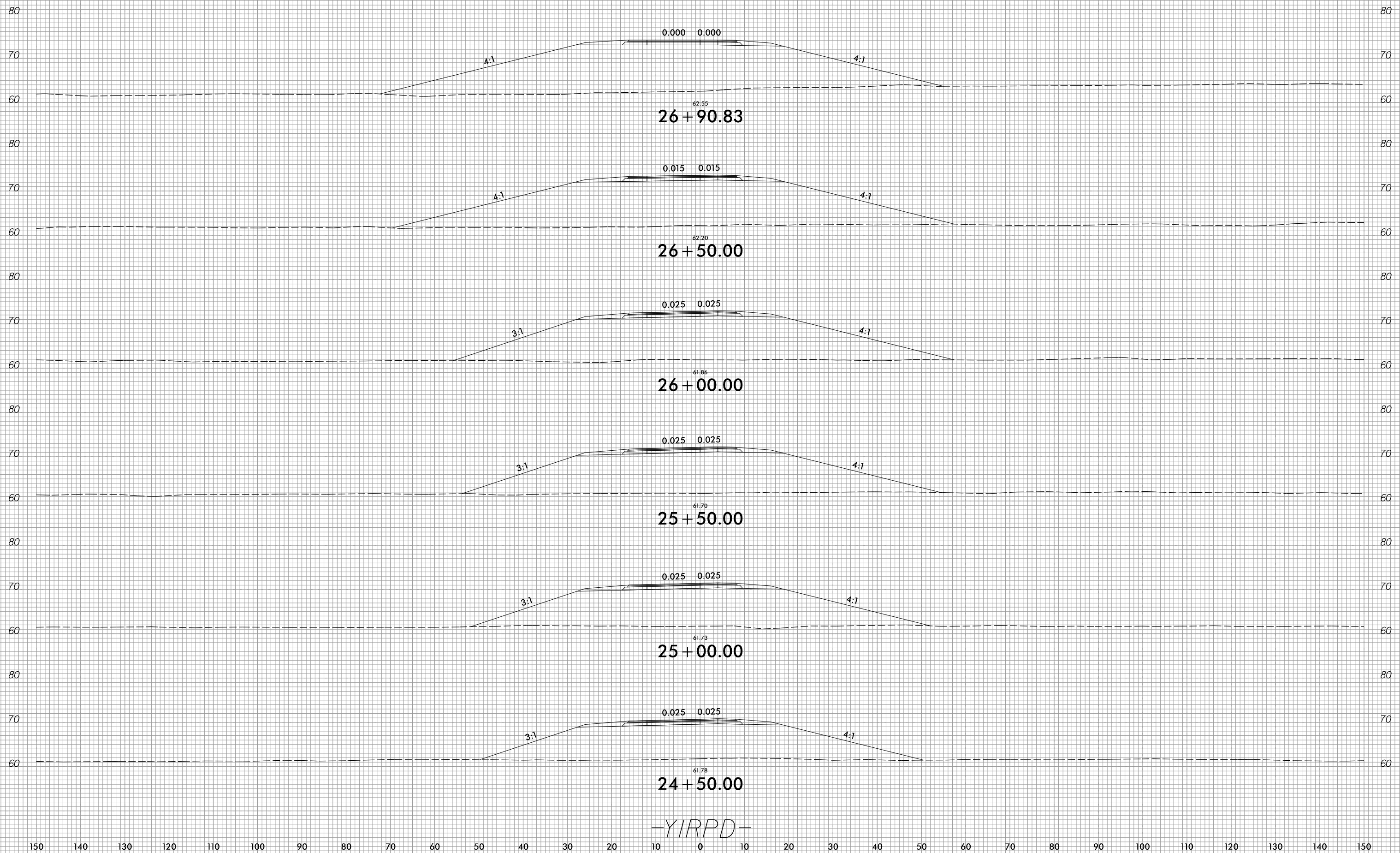
2/15/2022
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-62

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



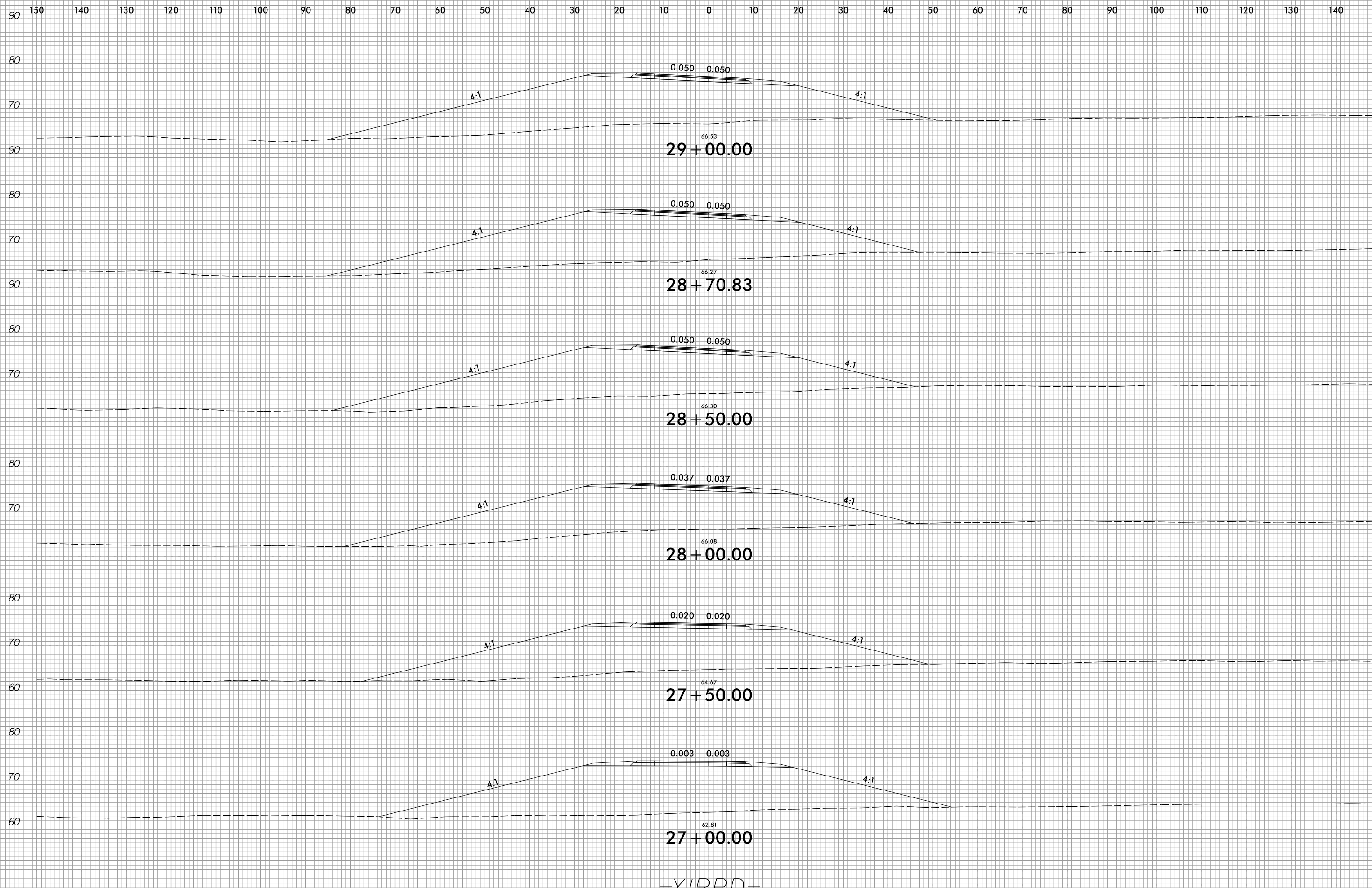
-YIRPD-

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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-63



-YIRPD-

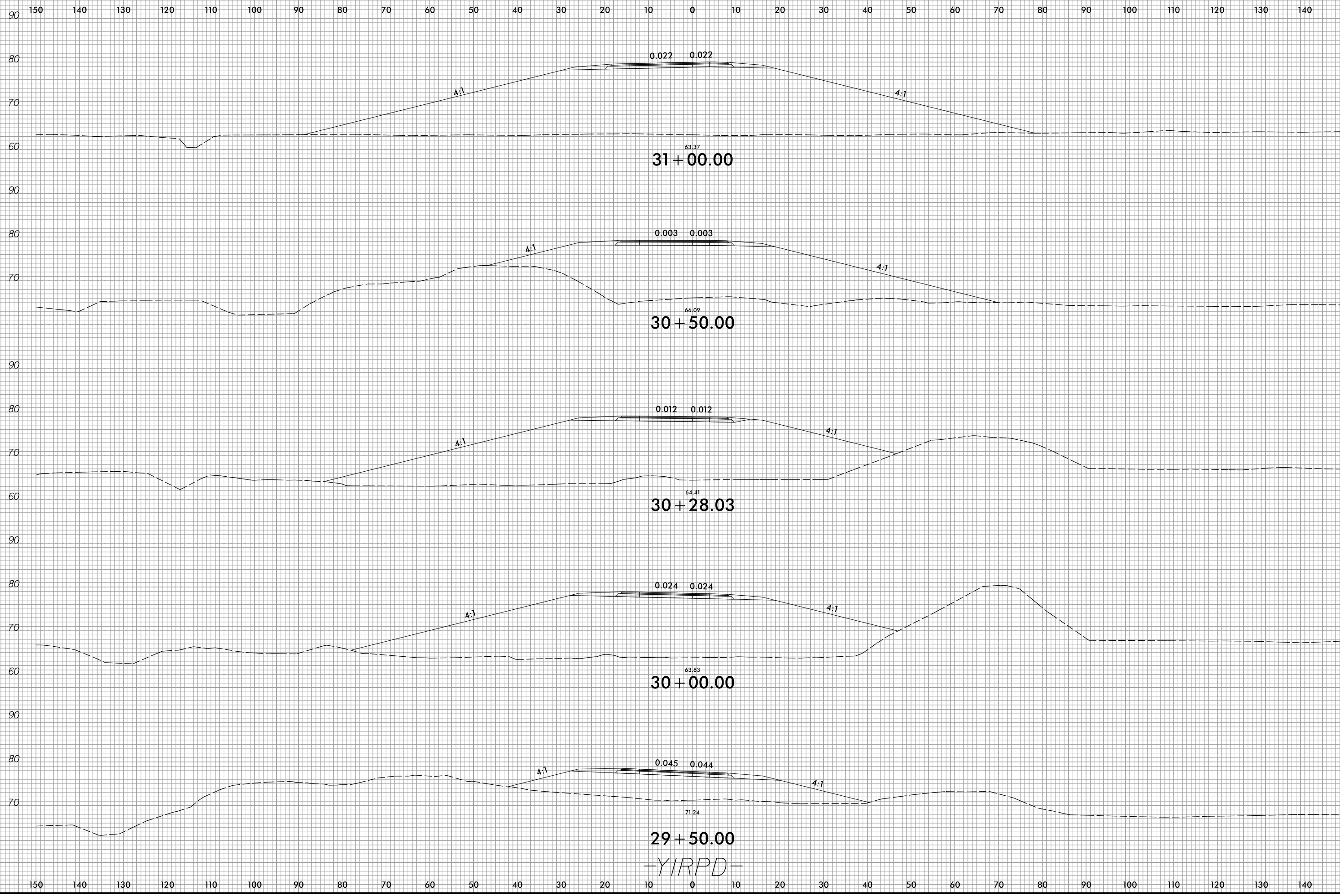
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6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-64



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-YIRPD-

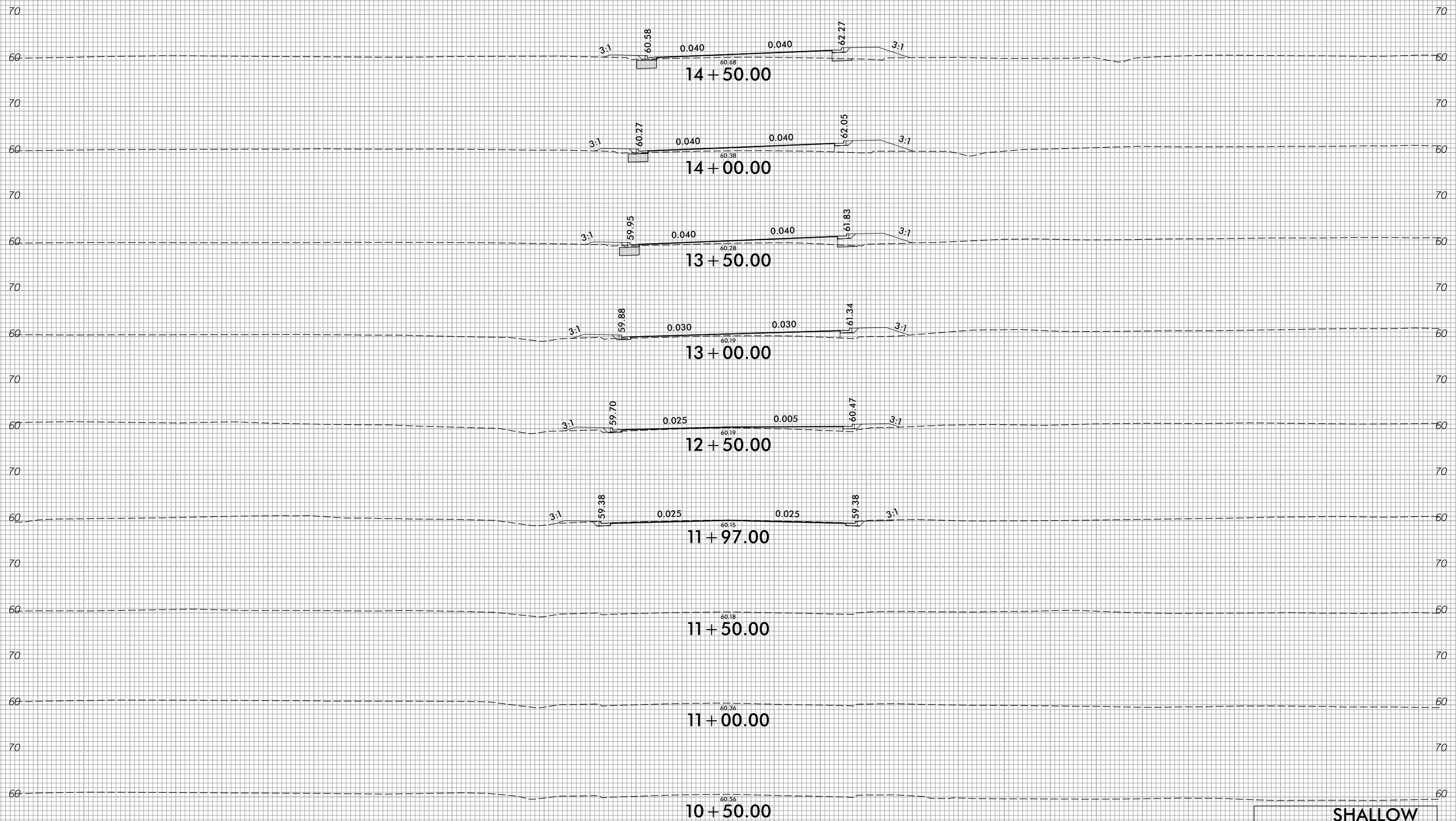
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-65

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14 + 50.00

14 + 00.00

13 + 50.00

13 + 00.00

12 + 50.00

11 + 97.00

11 + 50.00

11 + 00.00

10 + 50.00

-Y/A-

SHALLOW UNDERCUT EXCAVATION

2/15/2022
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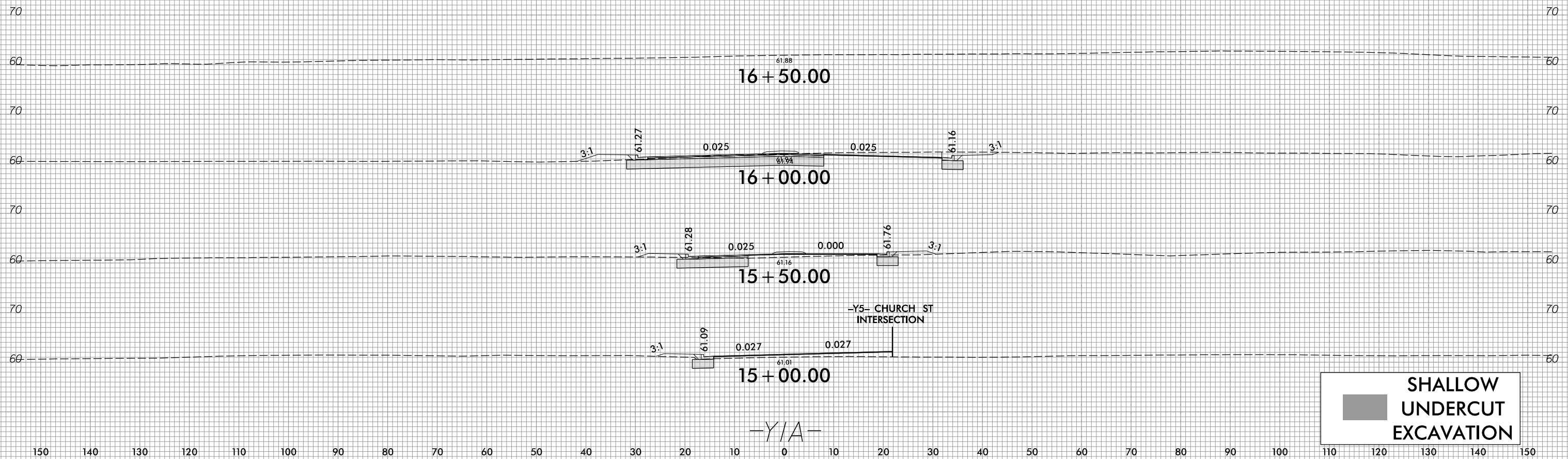
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-66

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



**SHALLOW
UNDERCUT
EXCAVATION**

2/15/2022
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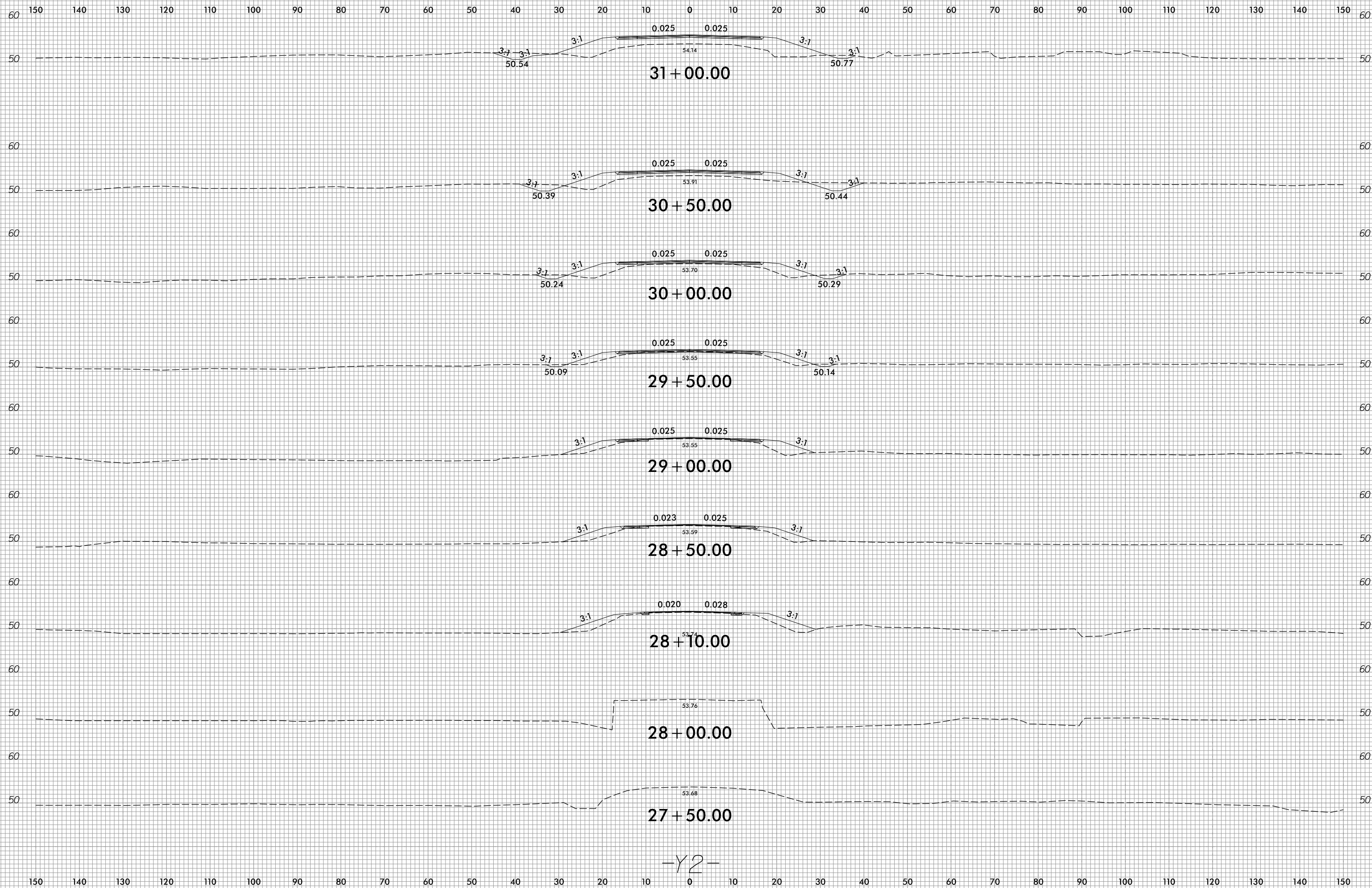
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6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-67



-Y2-

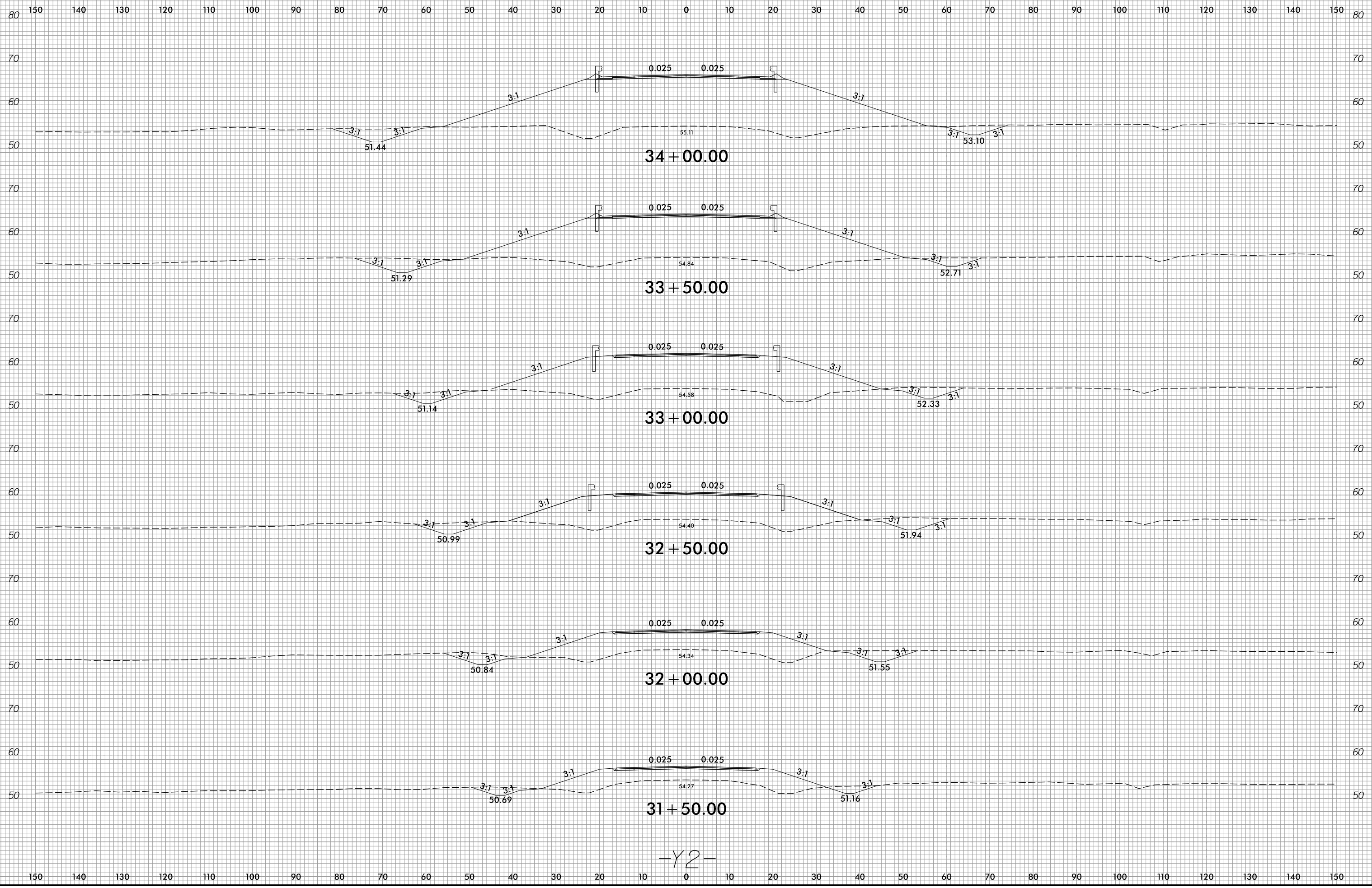
2/15/2022
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6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-68



-Y2-

2/15/2022
R:\Roadway\Corridor\Mode Ling\RS819_R5820_RDY_XPL_Y2.dgn
Grant, Augsburg

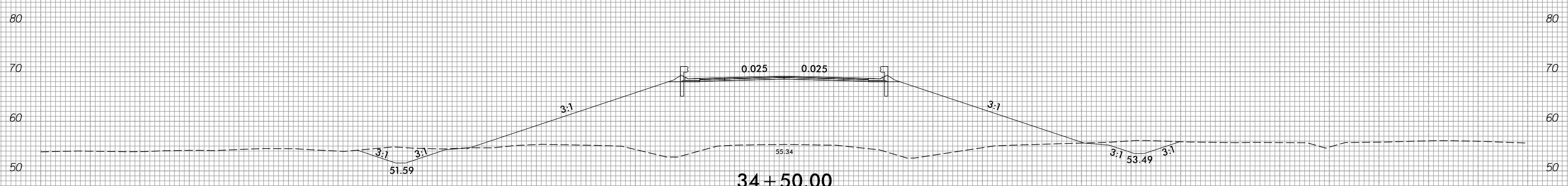
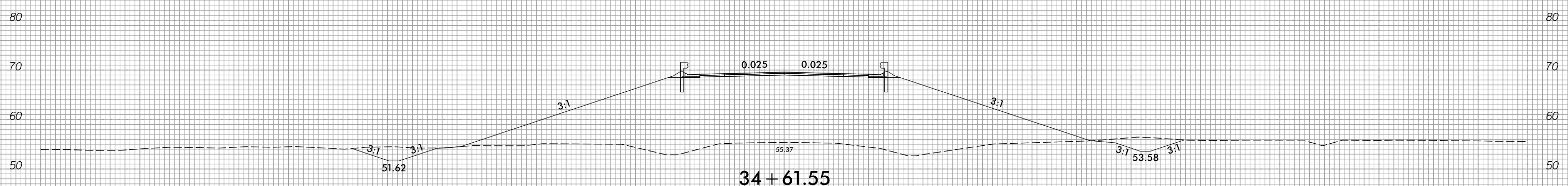
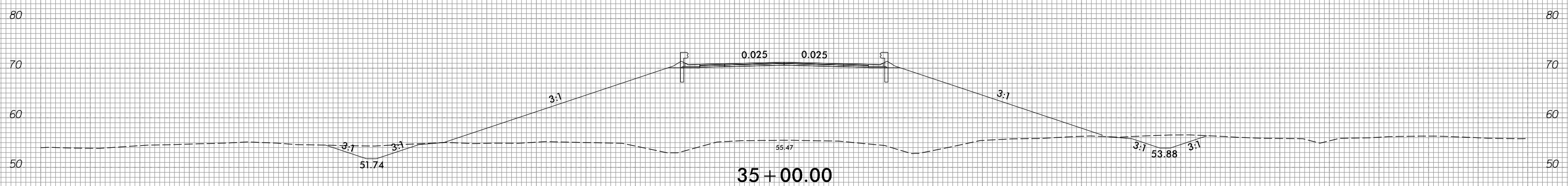
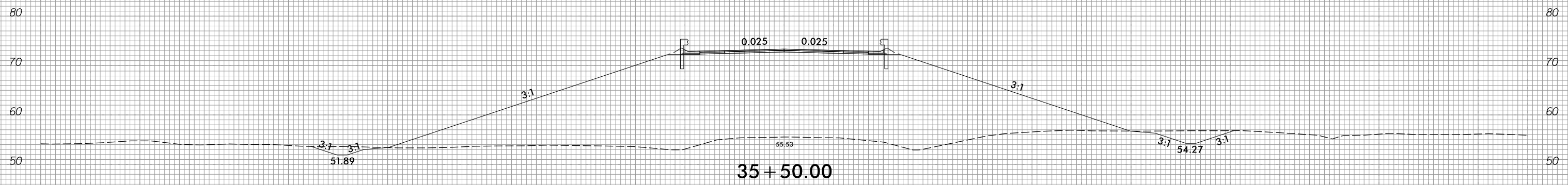
6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-69

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

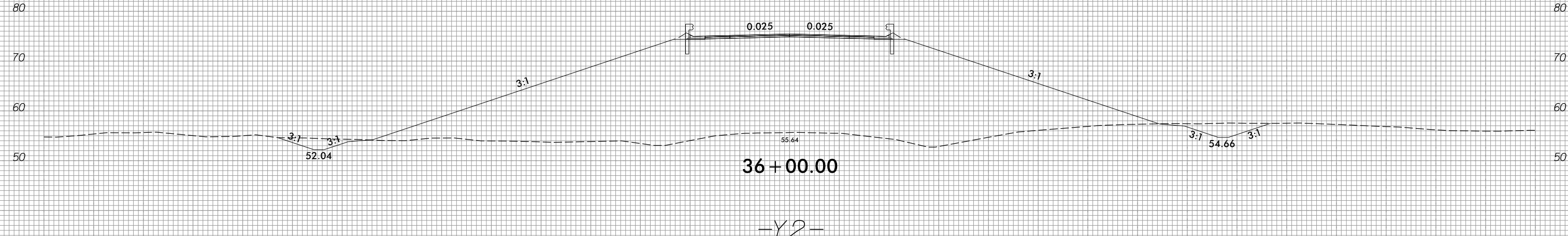
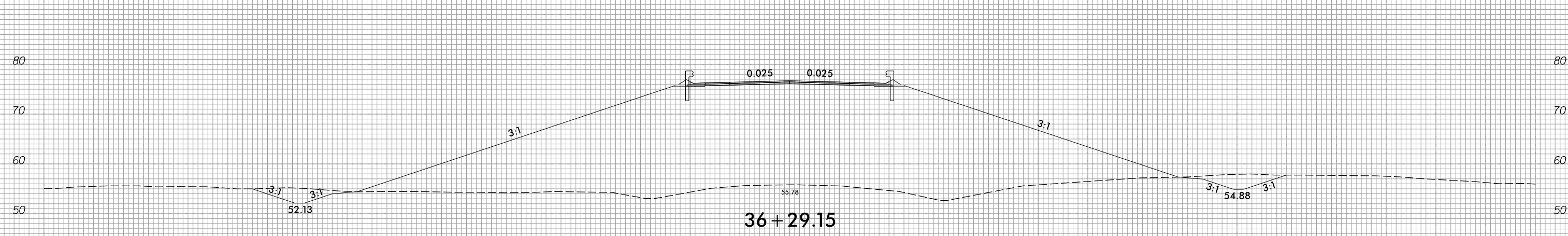
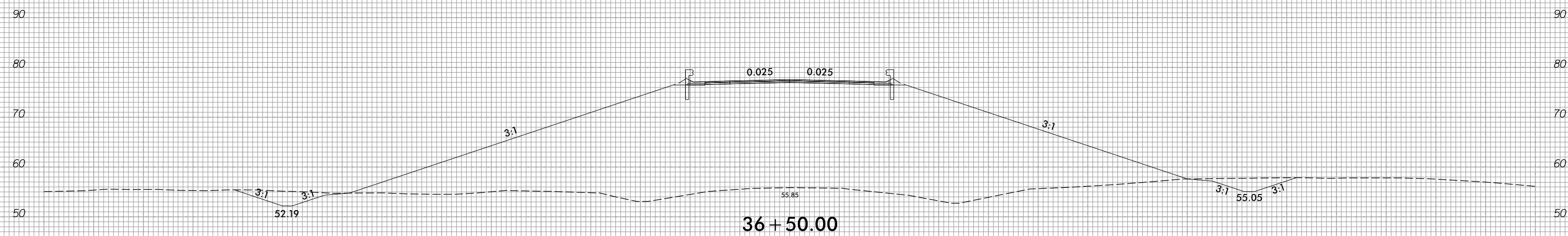
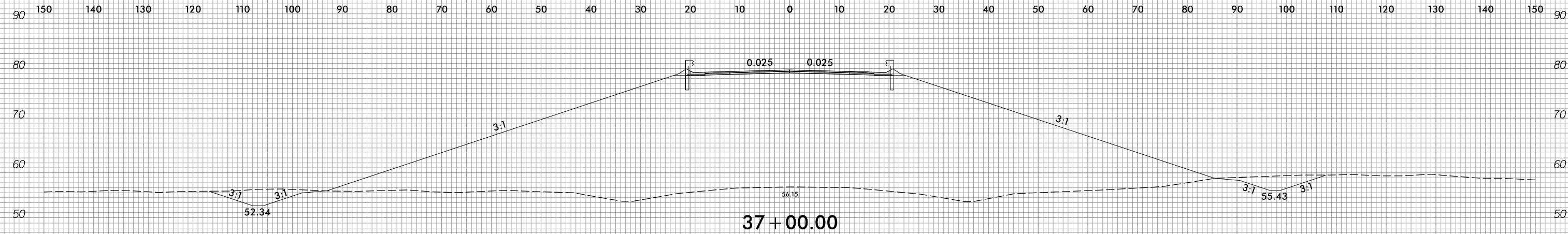
2/15/2022
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6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-70

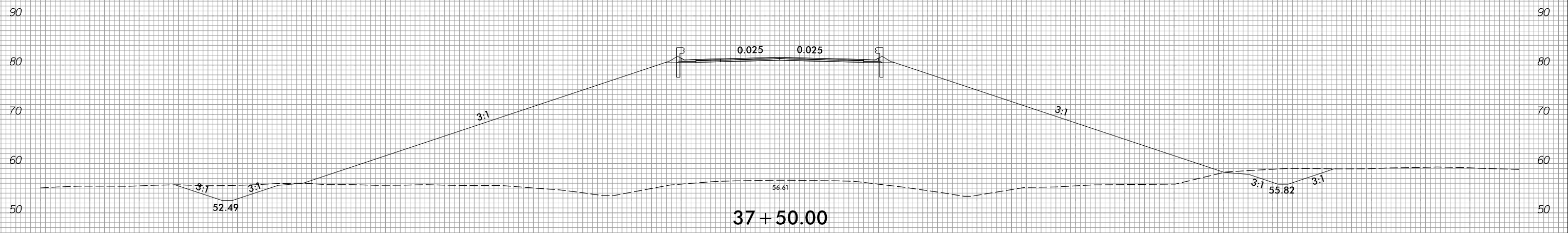
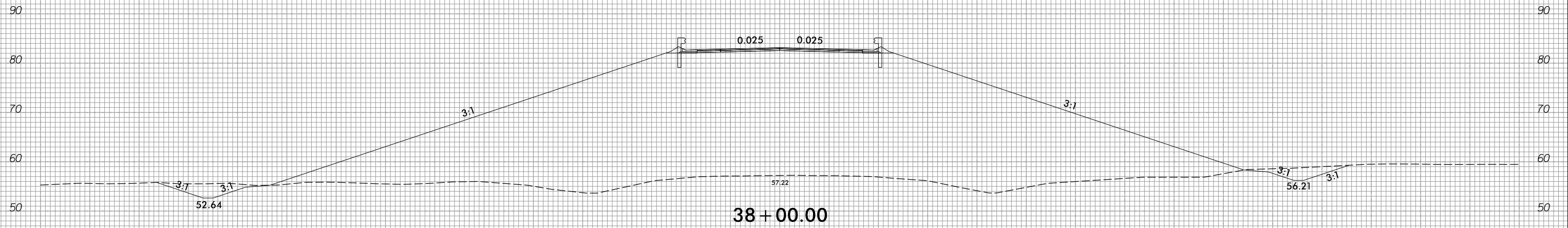
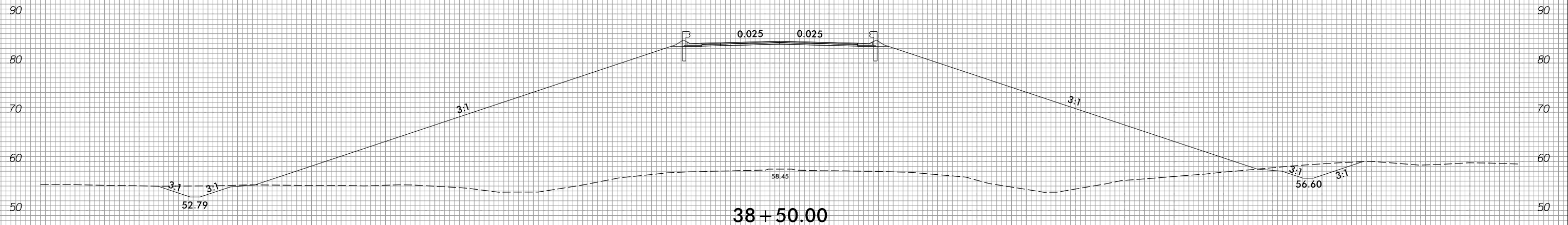


-Y2-

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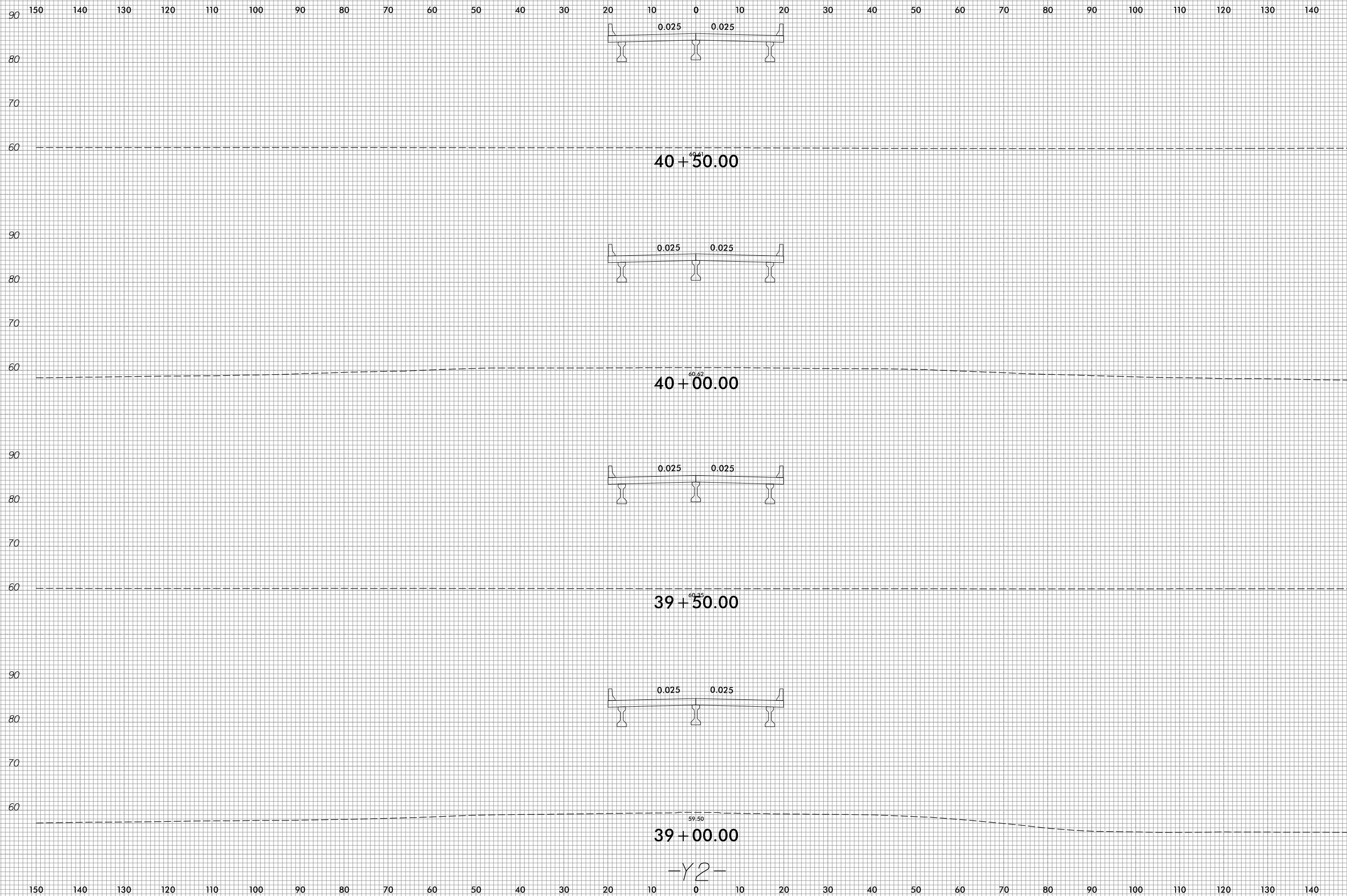
-Y2-

6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-72



2/15/2022
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40+^{60.41}50.00

40+^{60.62}00.00

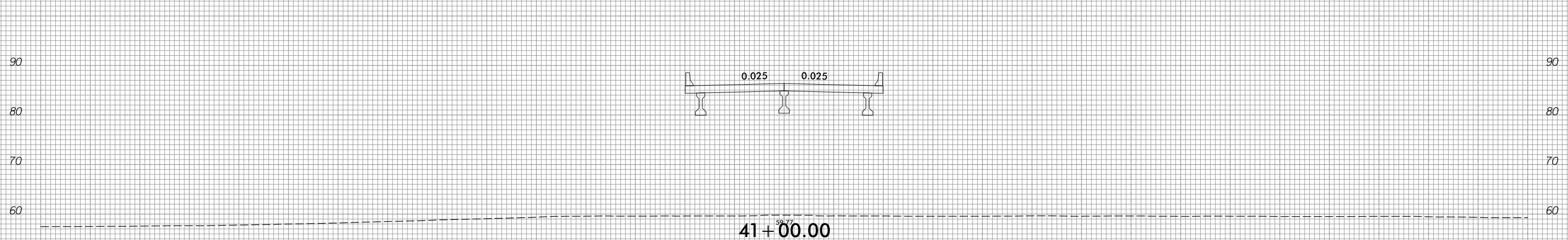
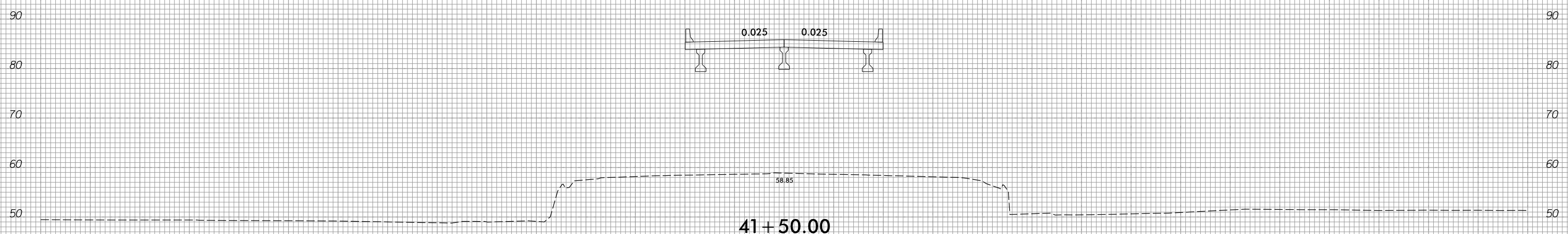
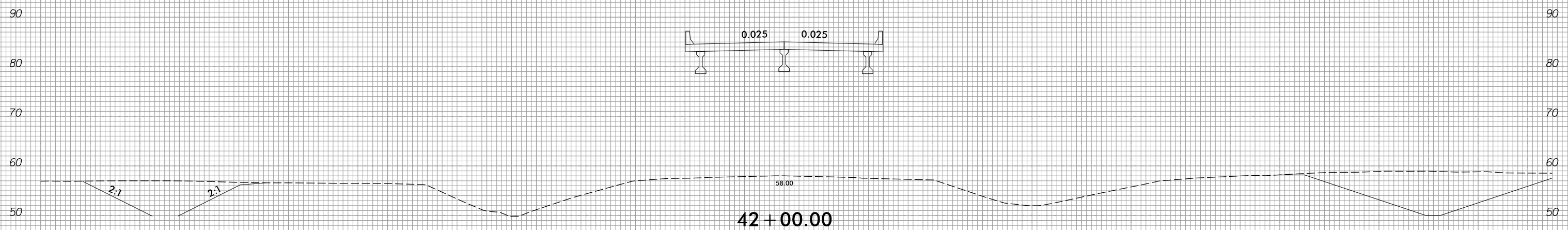
39+^{60.25}50.00

39+^{59.50}00.00

-Y2-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y2-

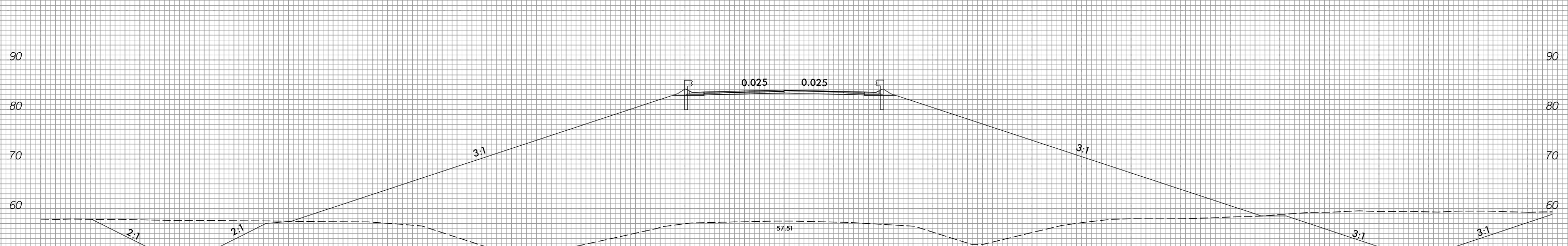
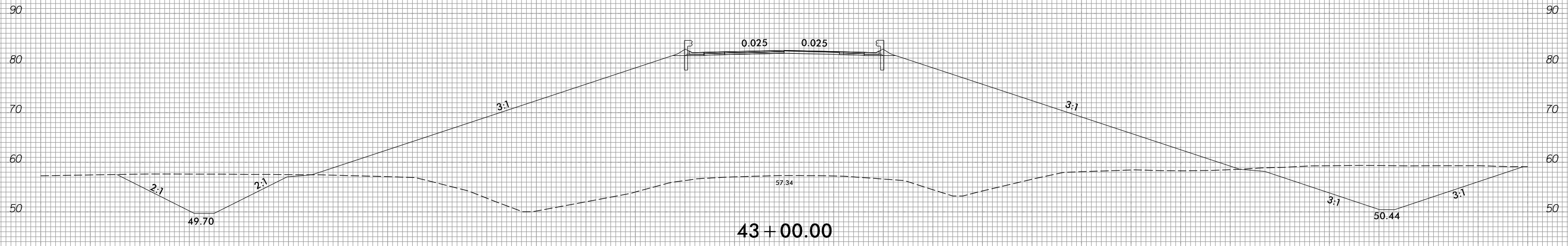
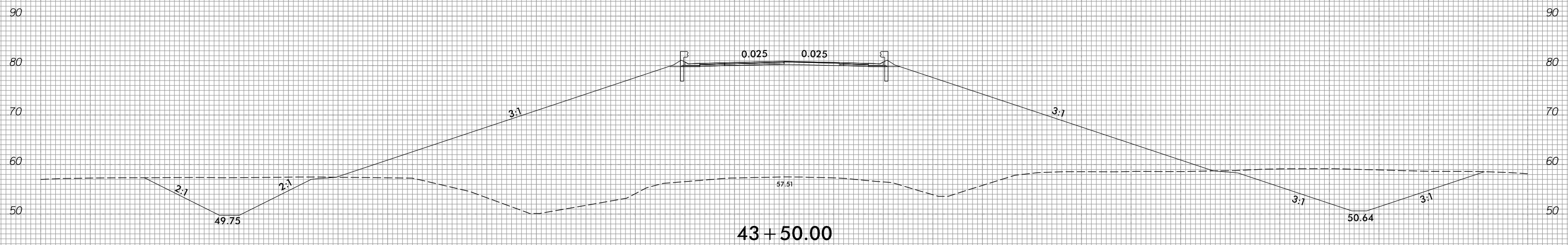
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819/R-5820	X-74

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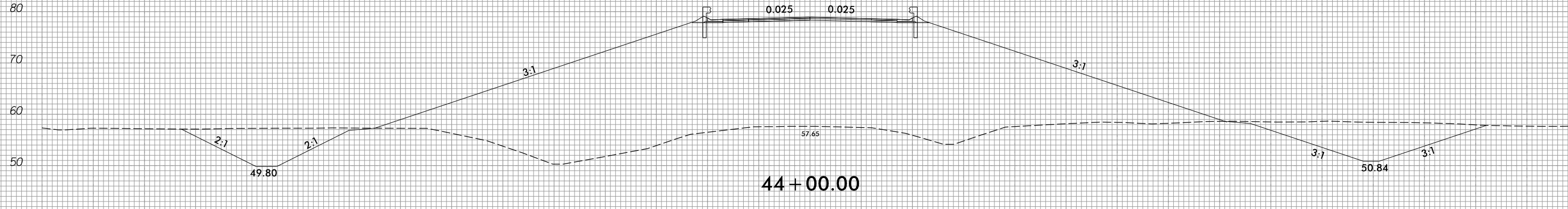
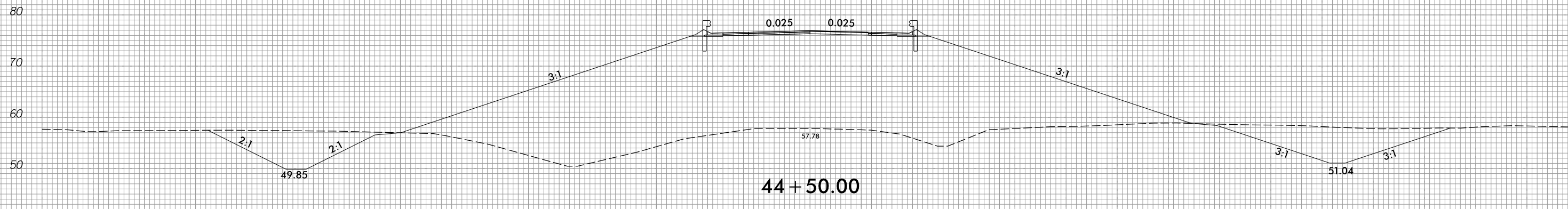
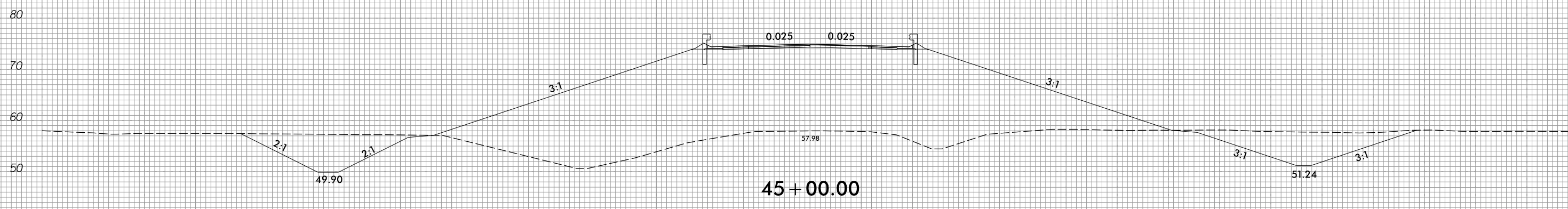
-Y2-

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6/23/16

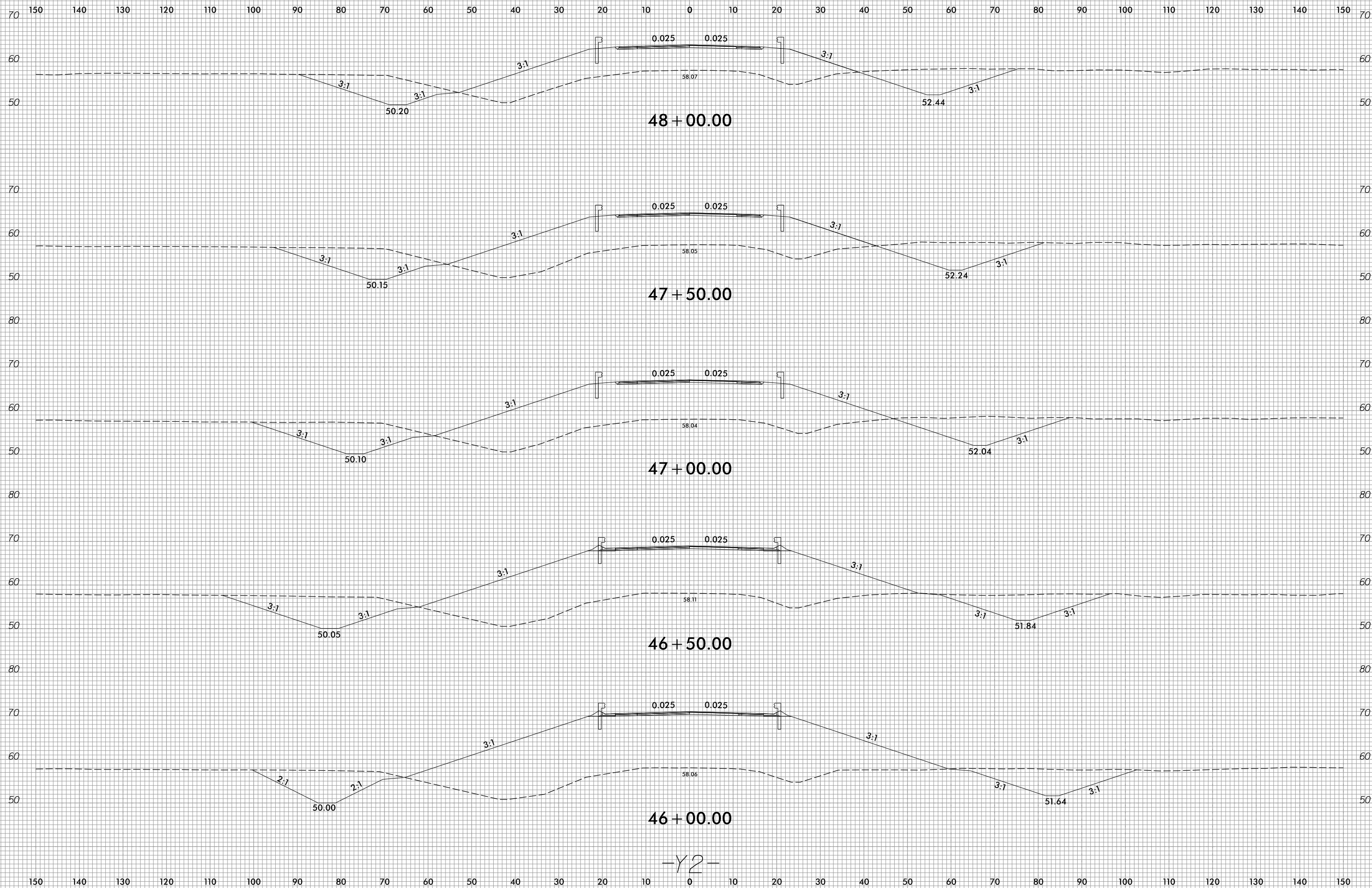


PROJ. REFERENCE NO.	SHEET NO.
R-5819/R-5820	X-75



-Y2-

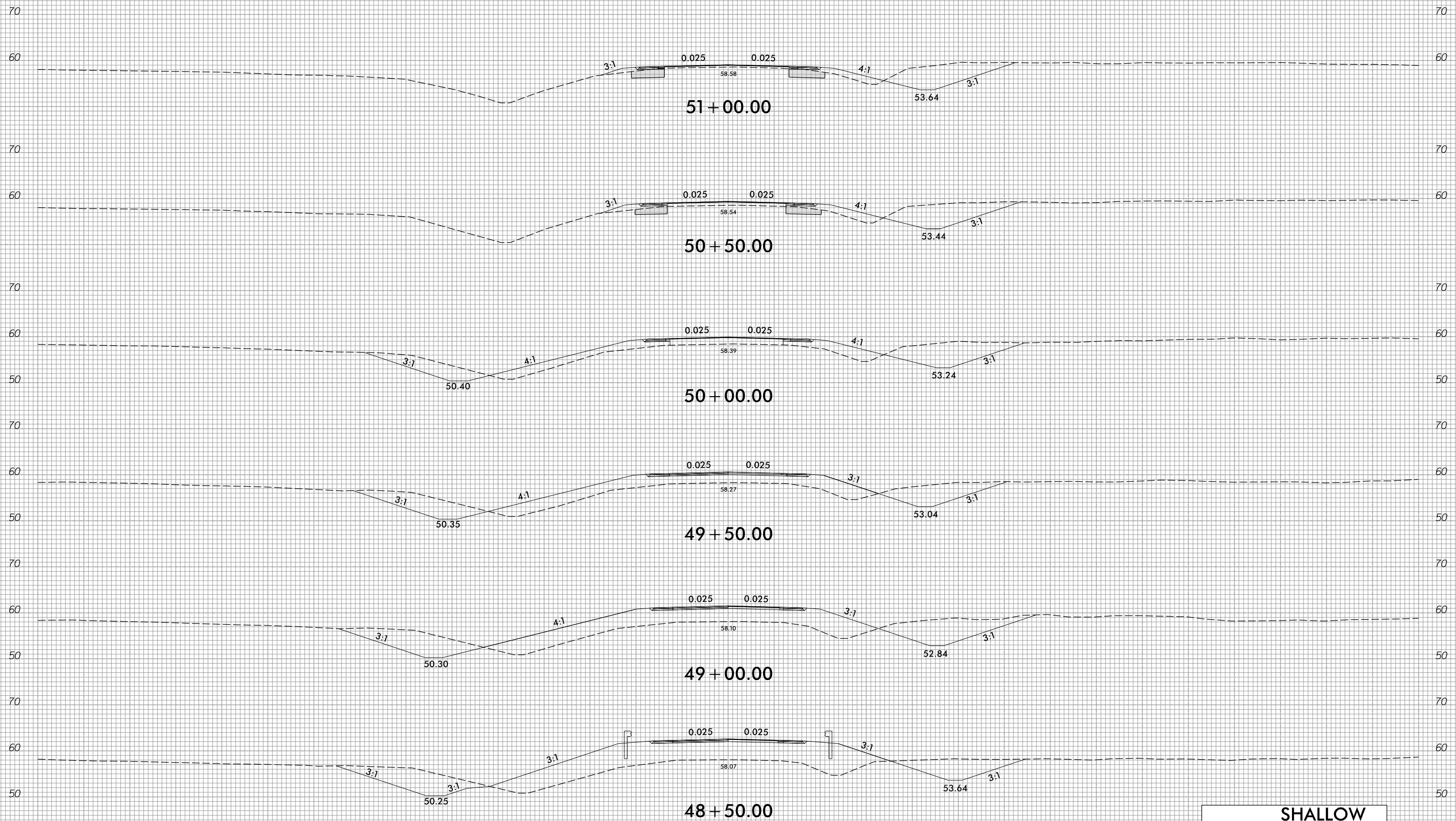
2/15/2022
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Grant, Augsburg



-Y2-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

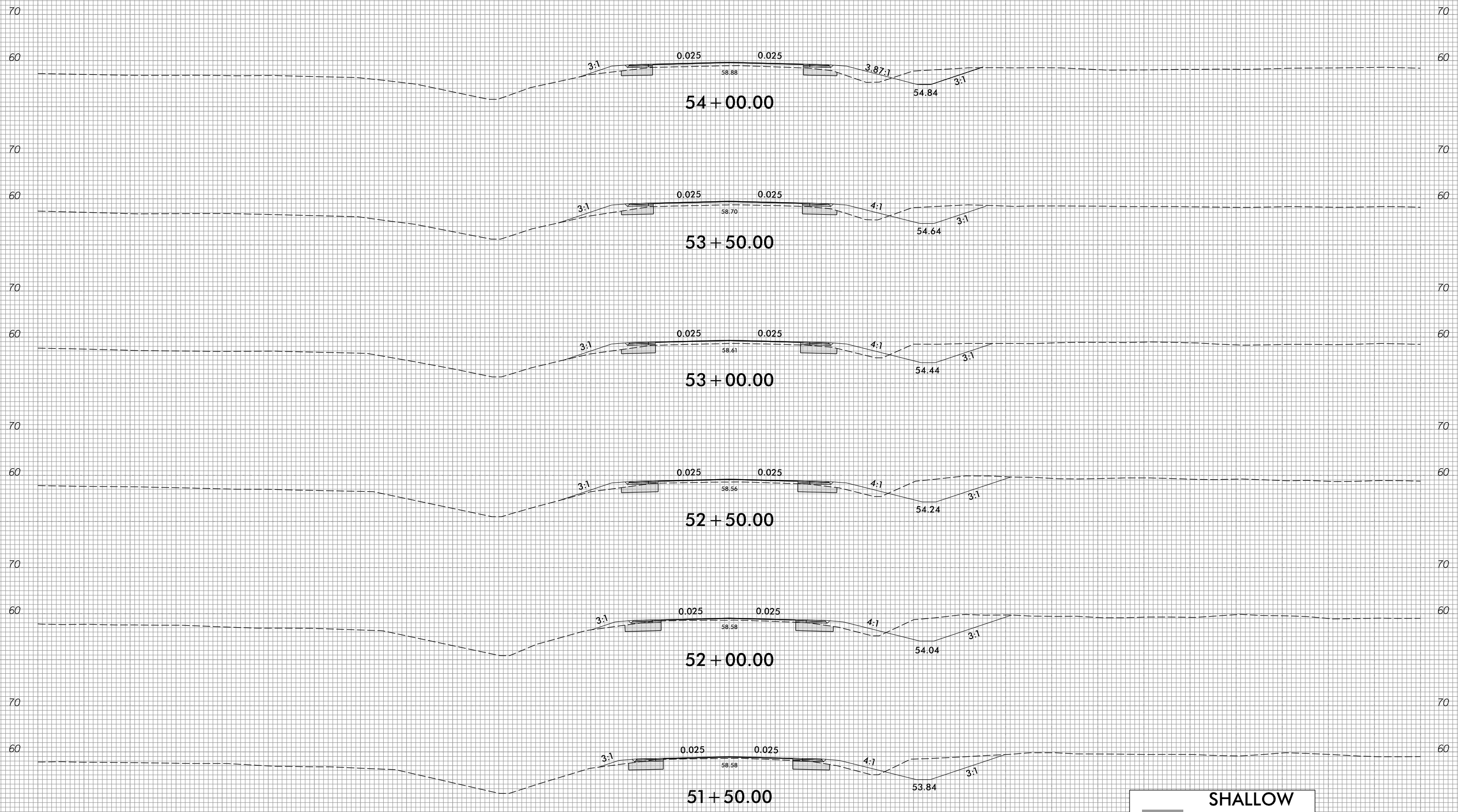


-Y2-

**SHALLOW
 UNDERCUT
 EXCAVATION**



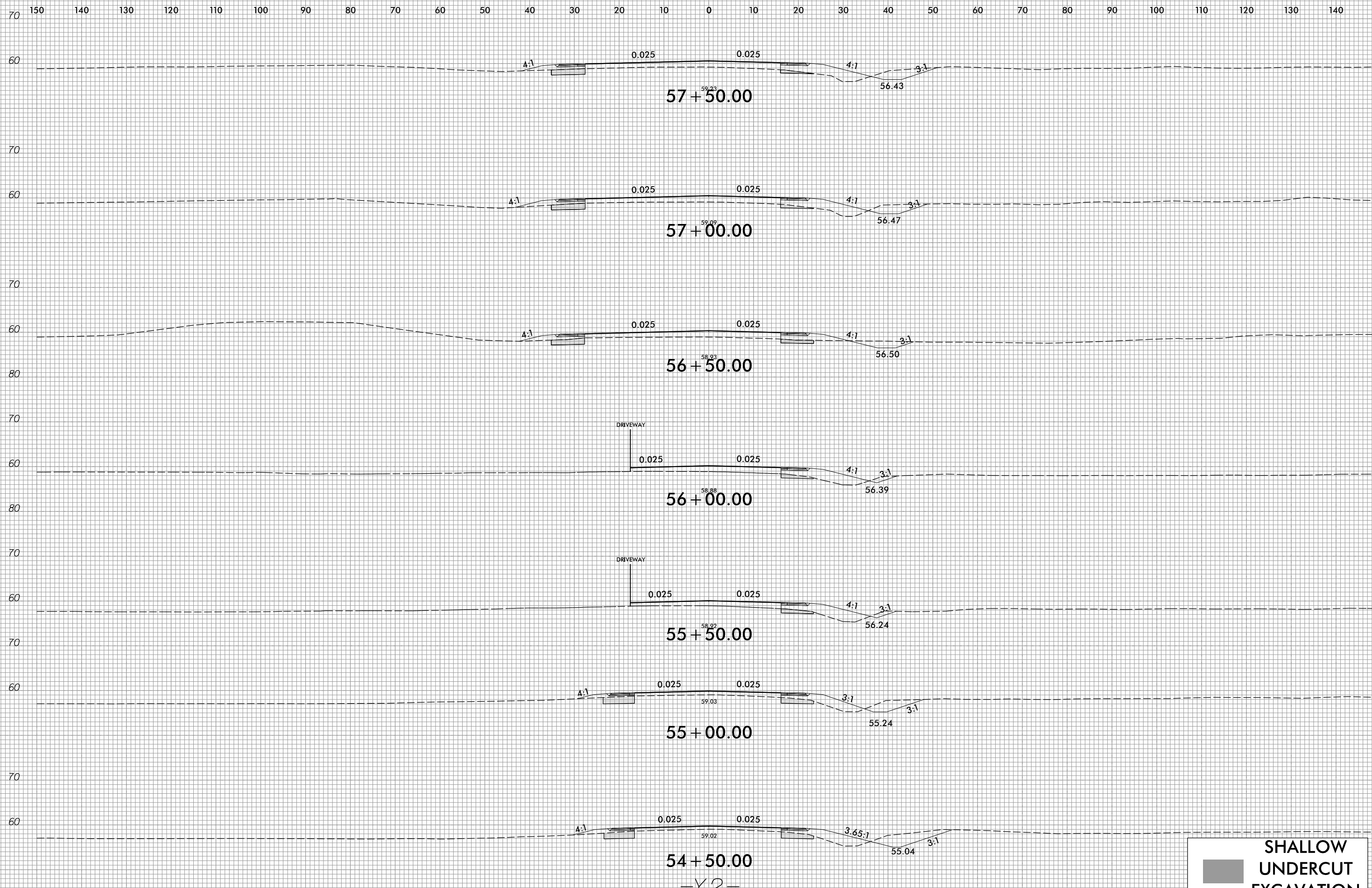
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



SHALLOW
UNDERCUT
EXCAVATION

-Y2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

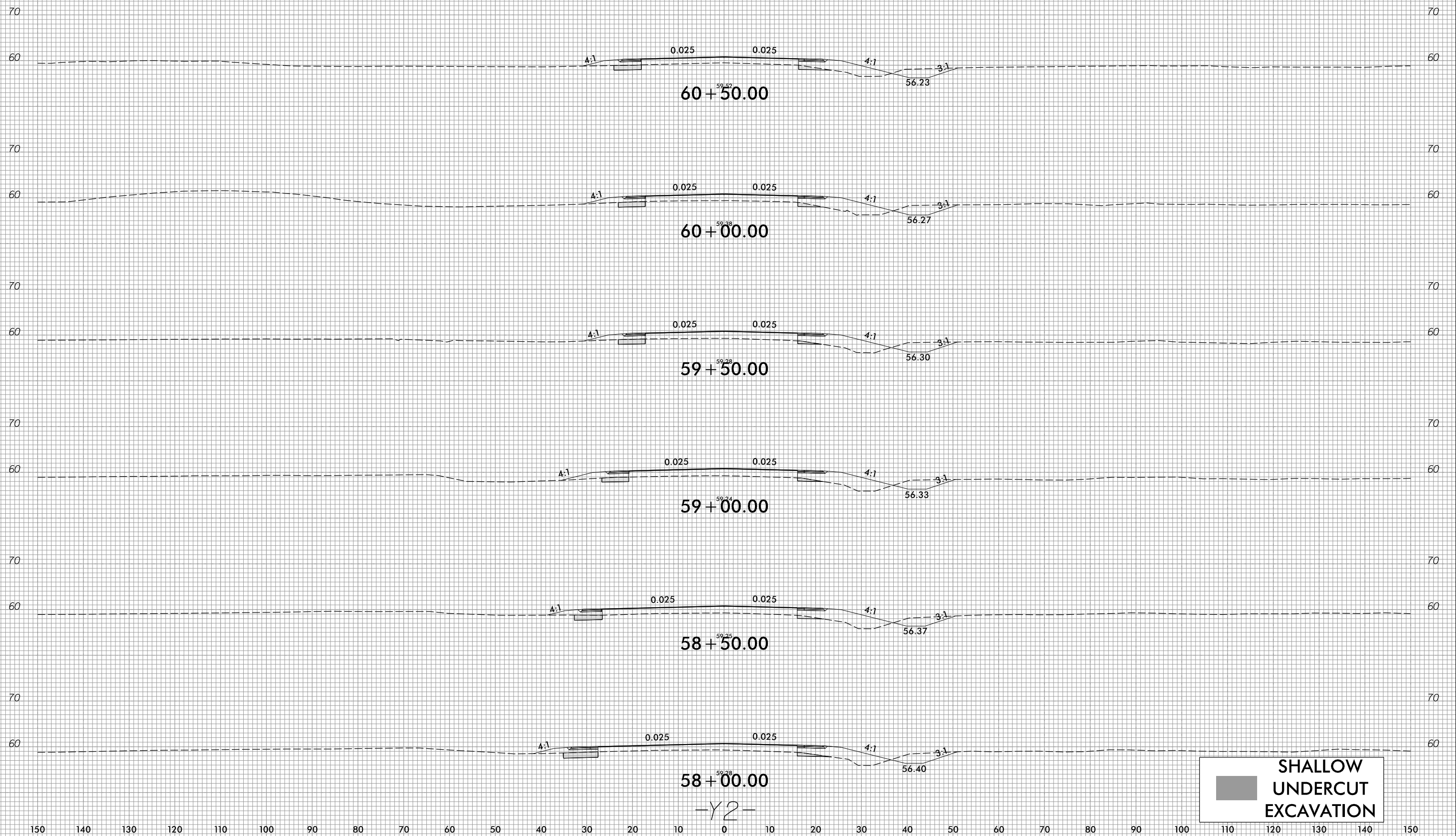


SHALLOW UNDERCUT EXCAVATION

-Y2-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y2-

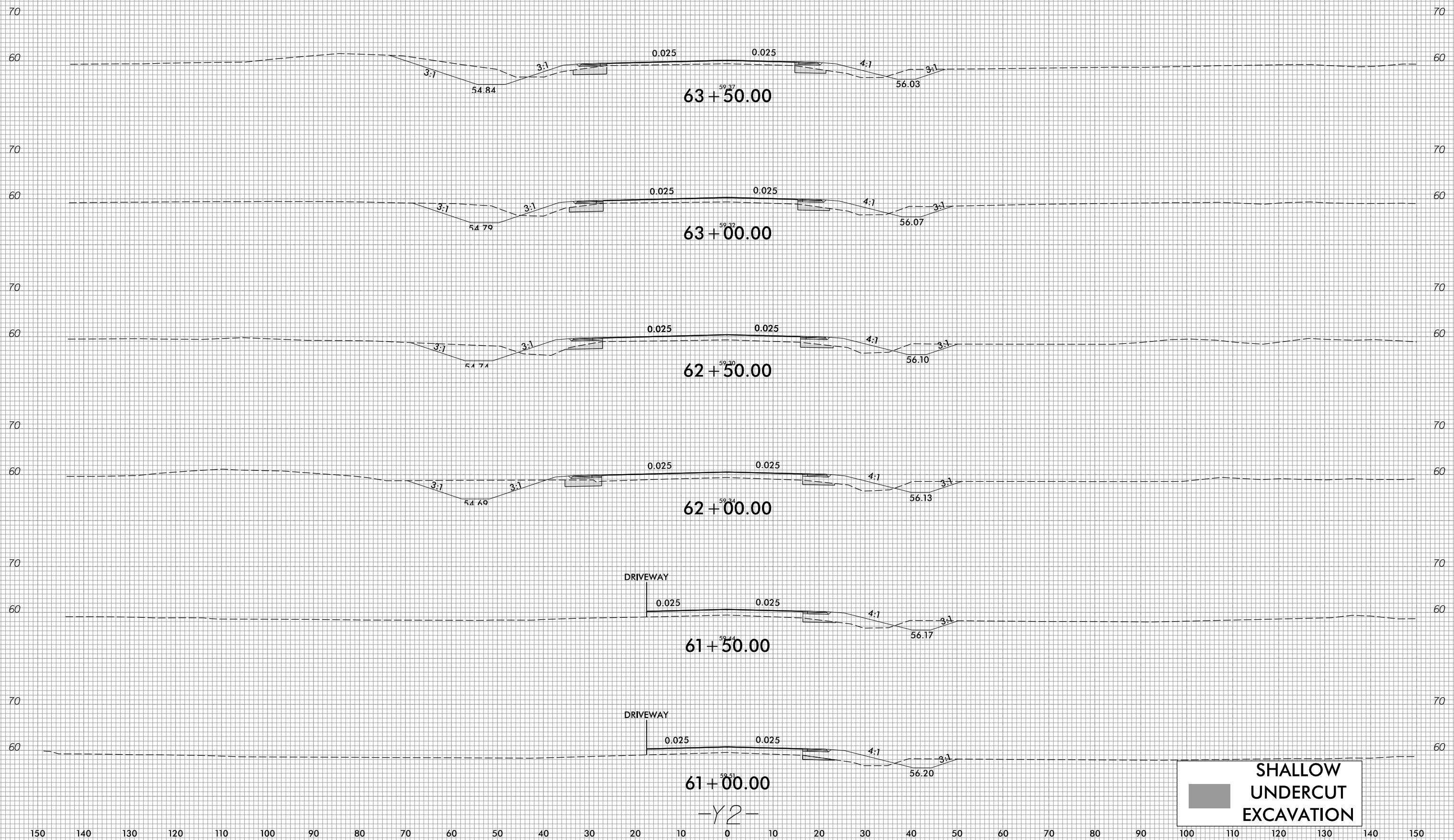
**SHALLOW
UNDERCUT
EXCAVATION**

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819/R-5820	X-81

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DRIVEWAY

DRIVEWAY

SHALLOW UNDERCUT EXCAVATION

-Y2-

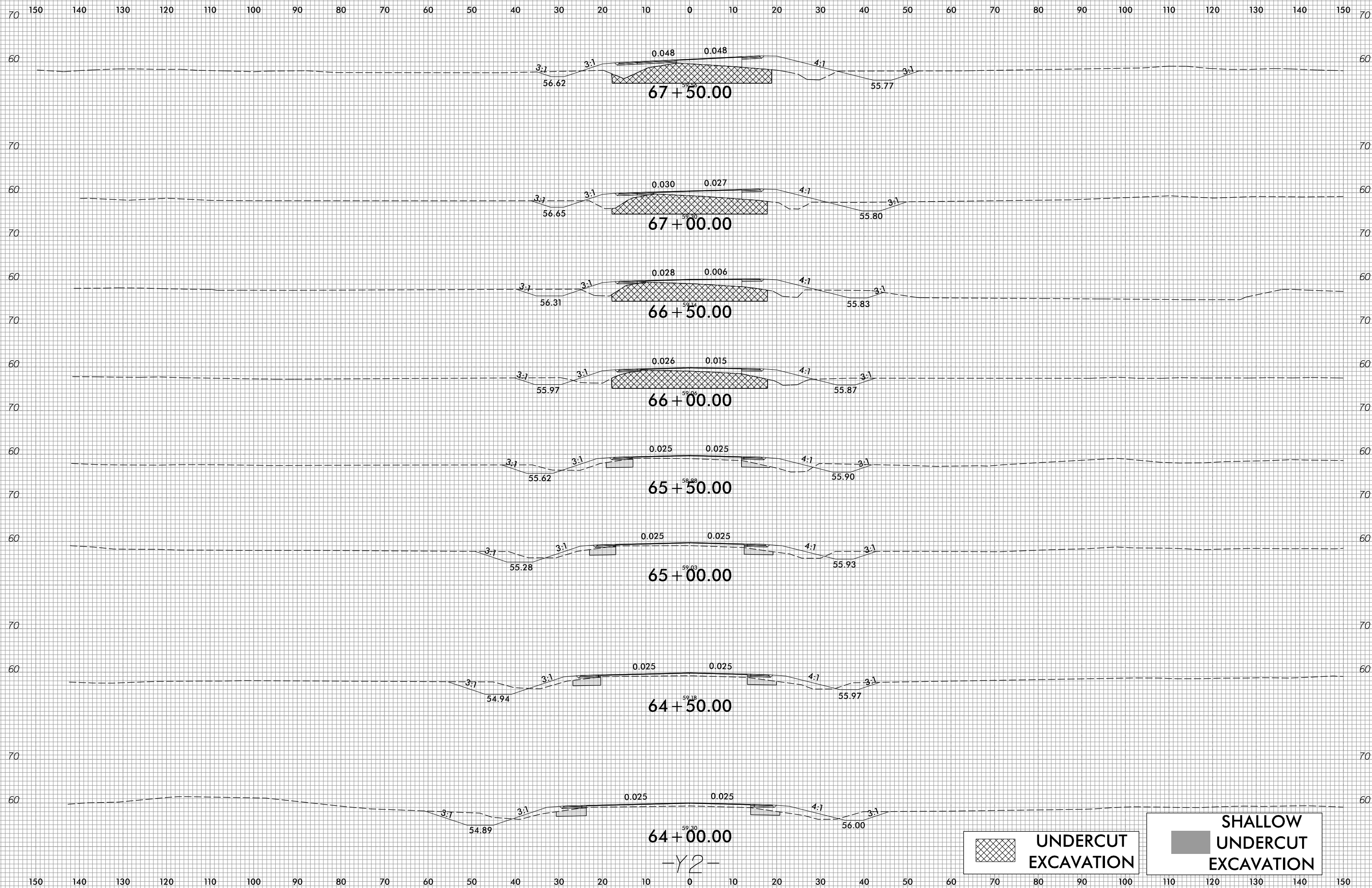
2/15/2022
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6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-82



67+50.00

67+00.00

66+50.00

66+00.00

65+50.00


65+00.00

64+50.00

64+00.00

-Y2-

 UNDERCUT EXCAVATION

 SHALLOW UNDERCUT EXCAVATION

2/15/2022
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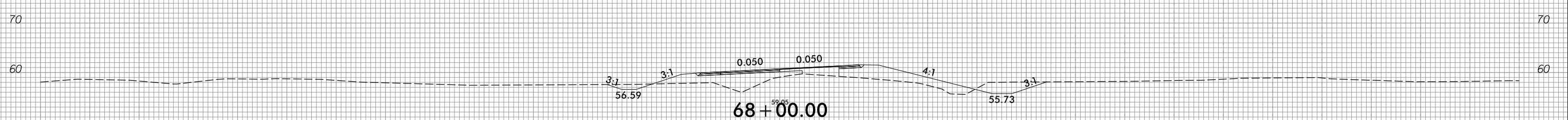
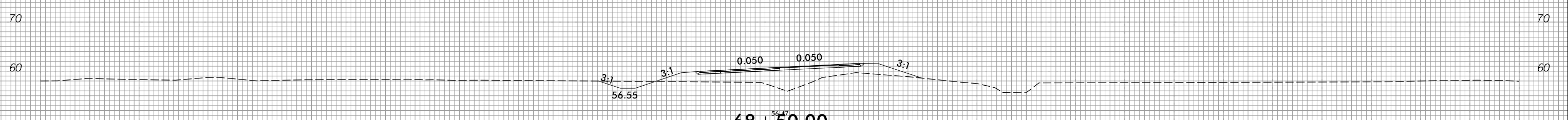
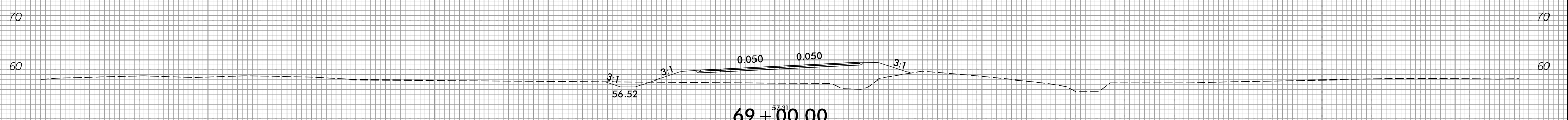
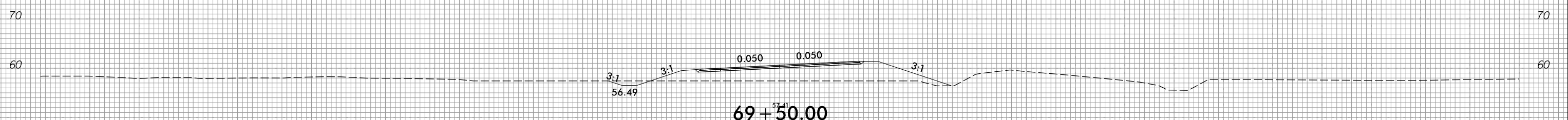
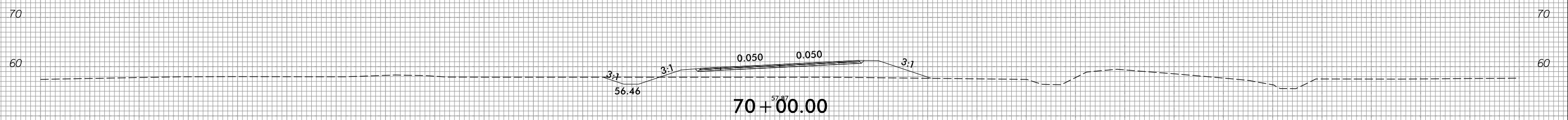
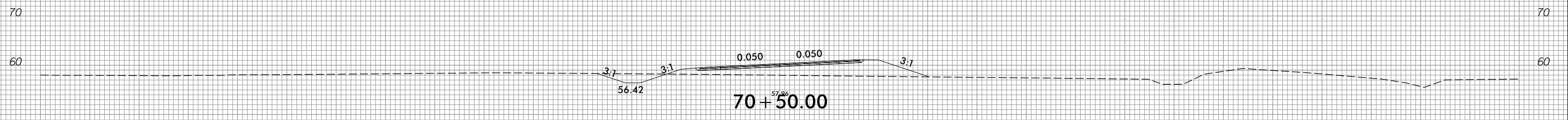
6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-83

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y2-

2/15/2022
R:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_Y2.dgn
Grant\Augsburg

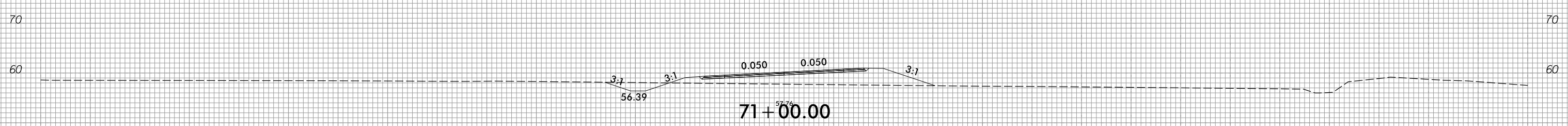
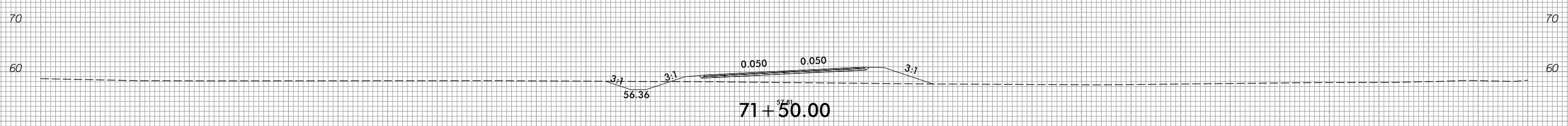
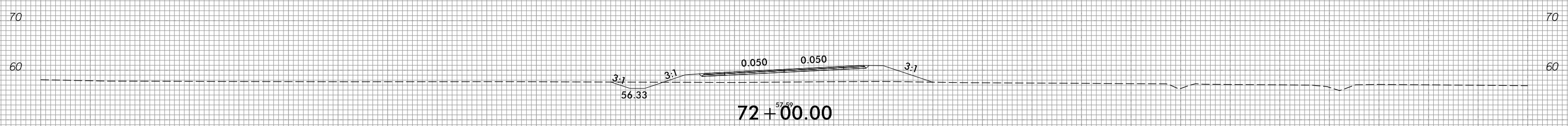
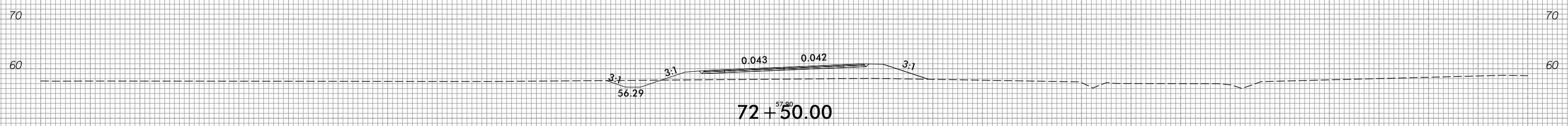
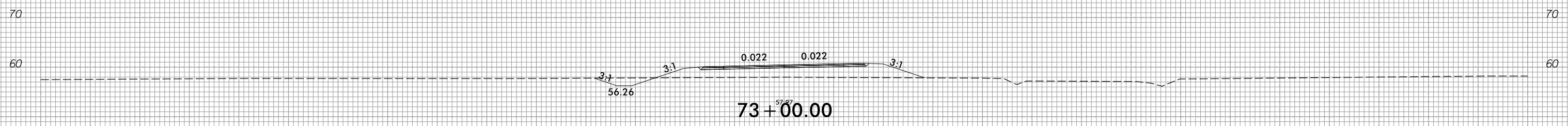
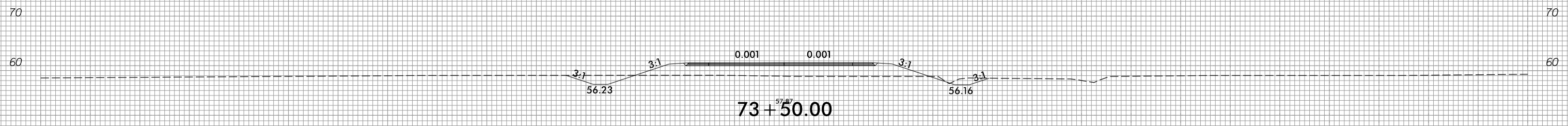
6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-84

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

2/15/2022
I:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_Y2.dgn
Grant, Augsburg

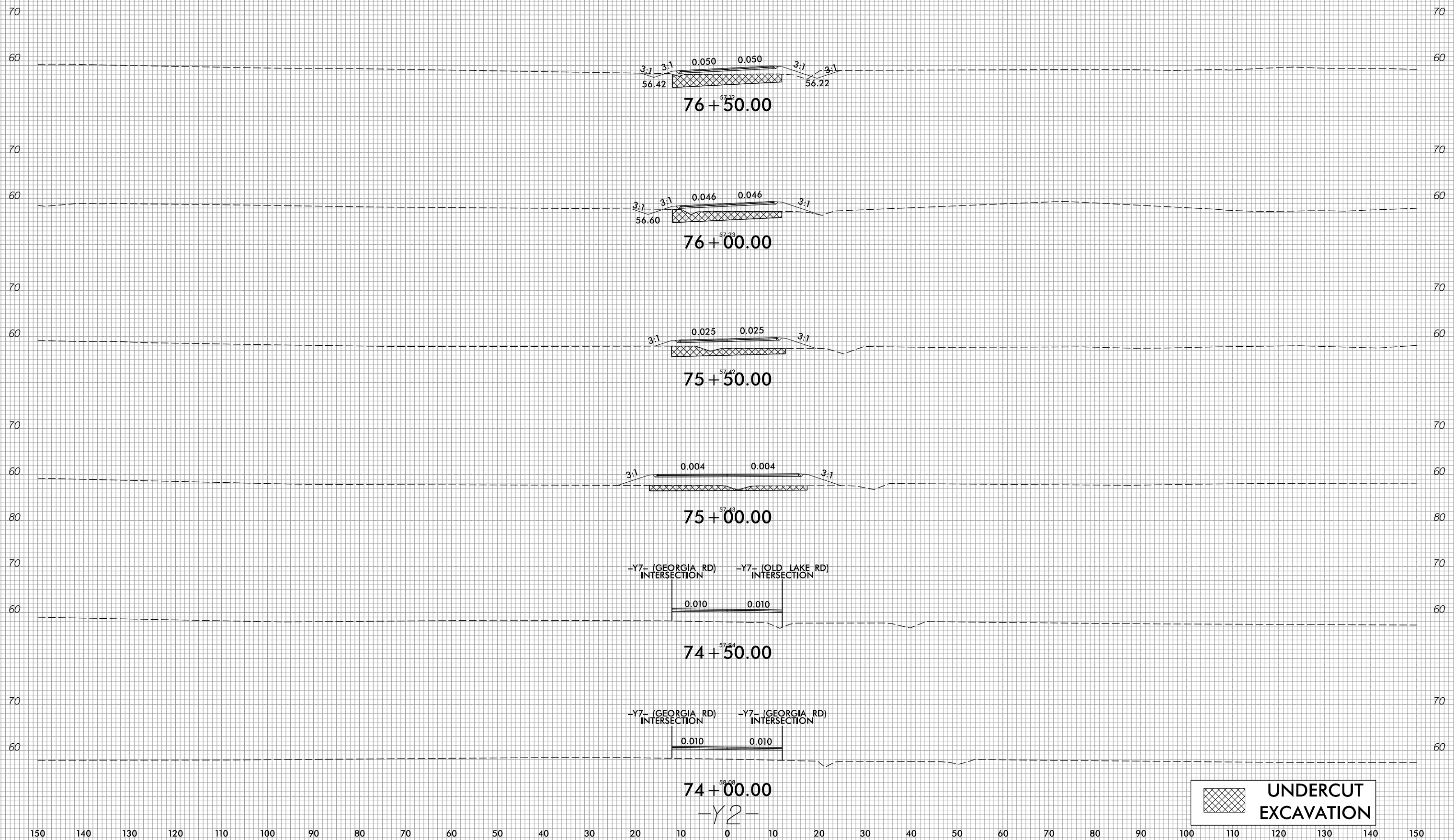
6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-85

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



76+50.00

76+00.00

75+50.00

75+00.00

74+50.00

74+00.00

-Y7- (GEORGIA RD) INTERSECTION -Y7- (OLD LAKE RD) INTERSECTION

-Y7- (GEORGIA RD) INTERSECTION -Y7- (GEORGIA RD) INTERSECTION

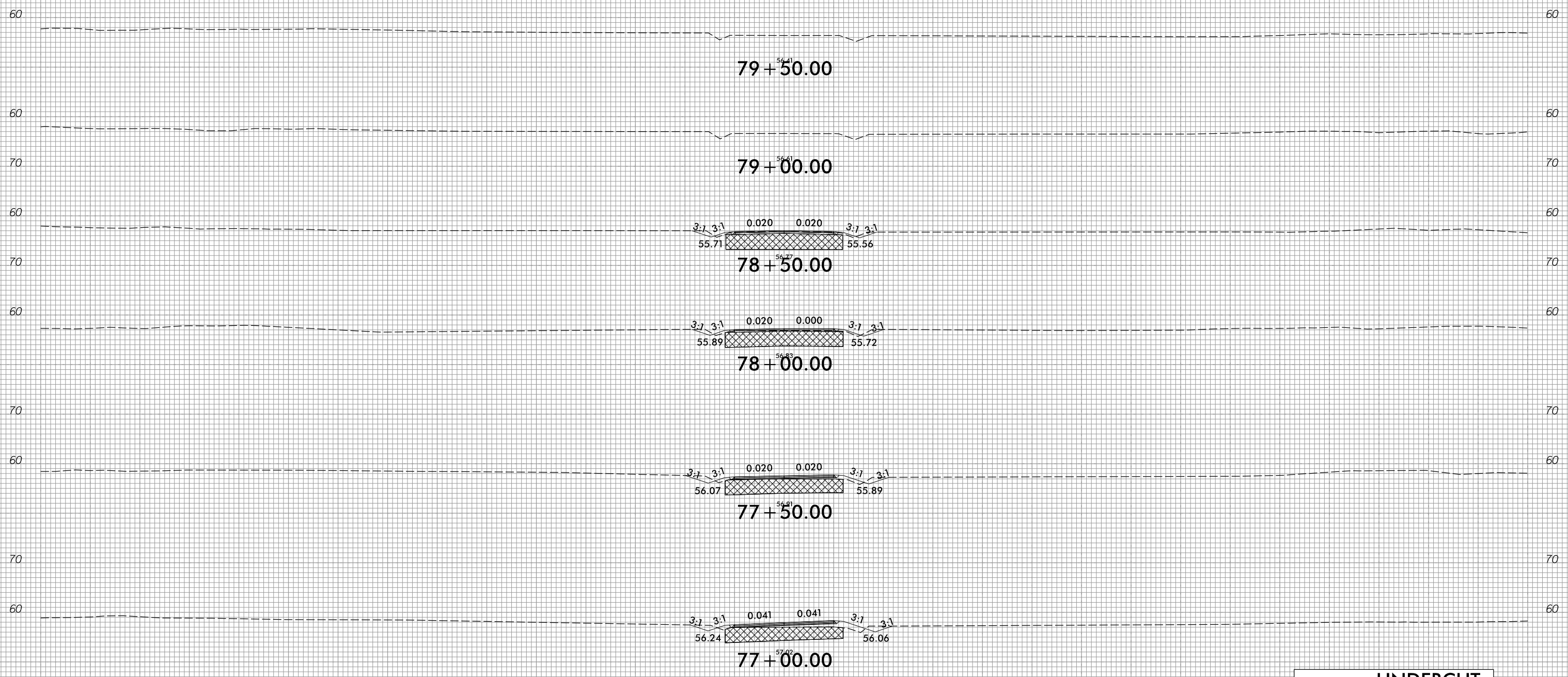
-Y2-

 UNDERCUT EXCAVATION

2/15/2022
R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_Y2.dgn
Grant-Augburg



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



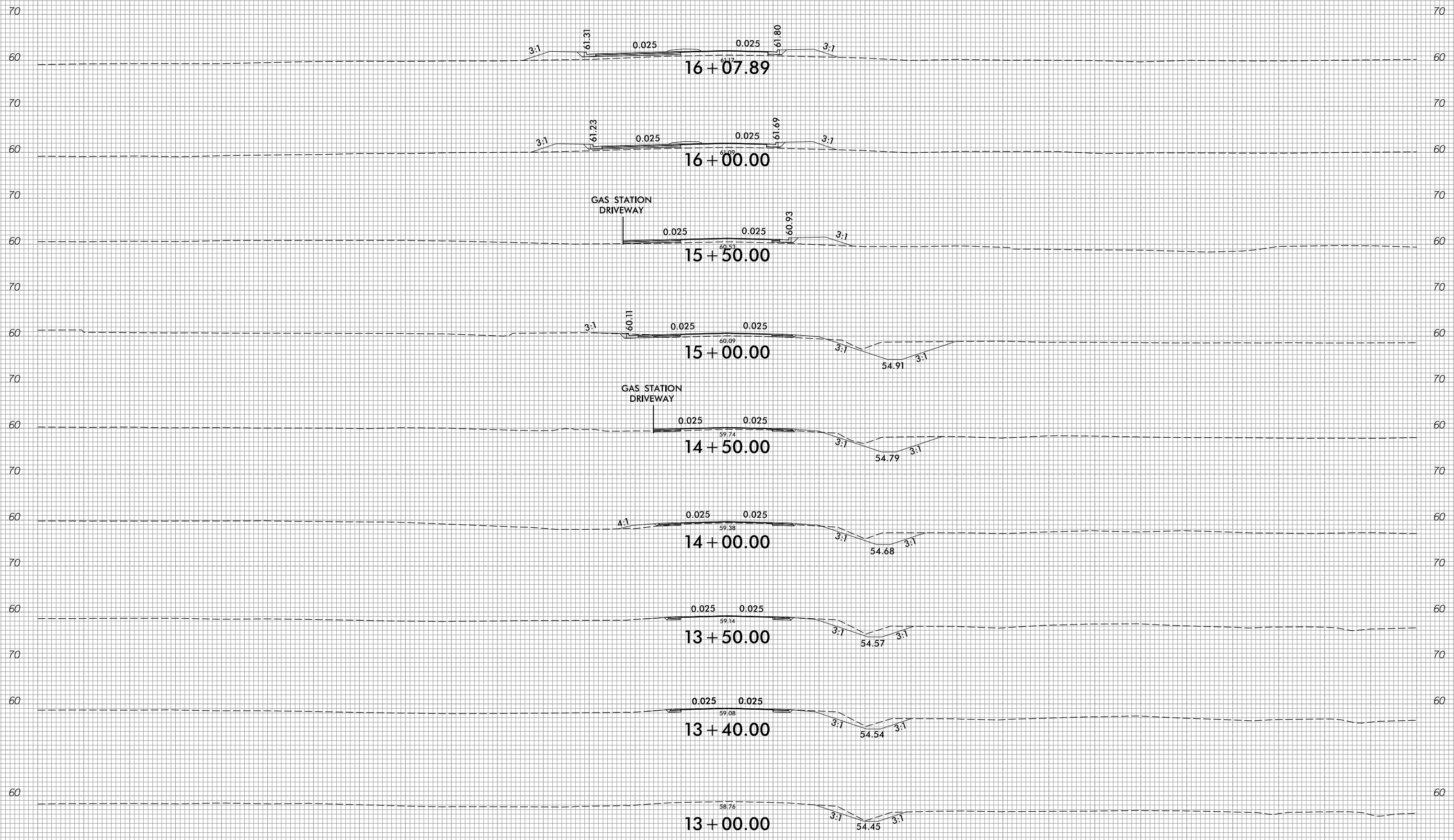
UNDERCUT EXCAVATION

-Y2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y3-

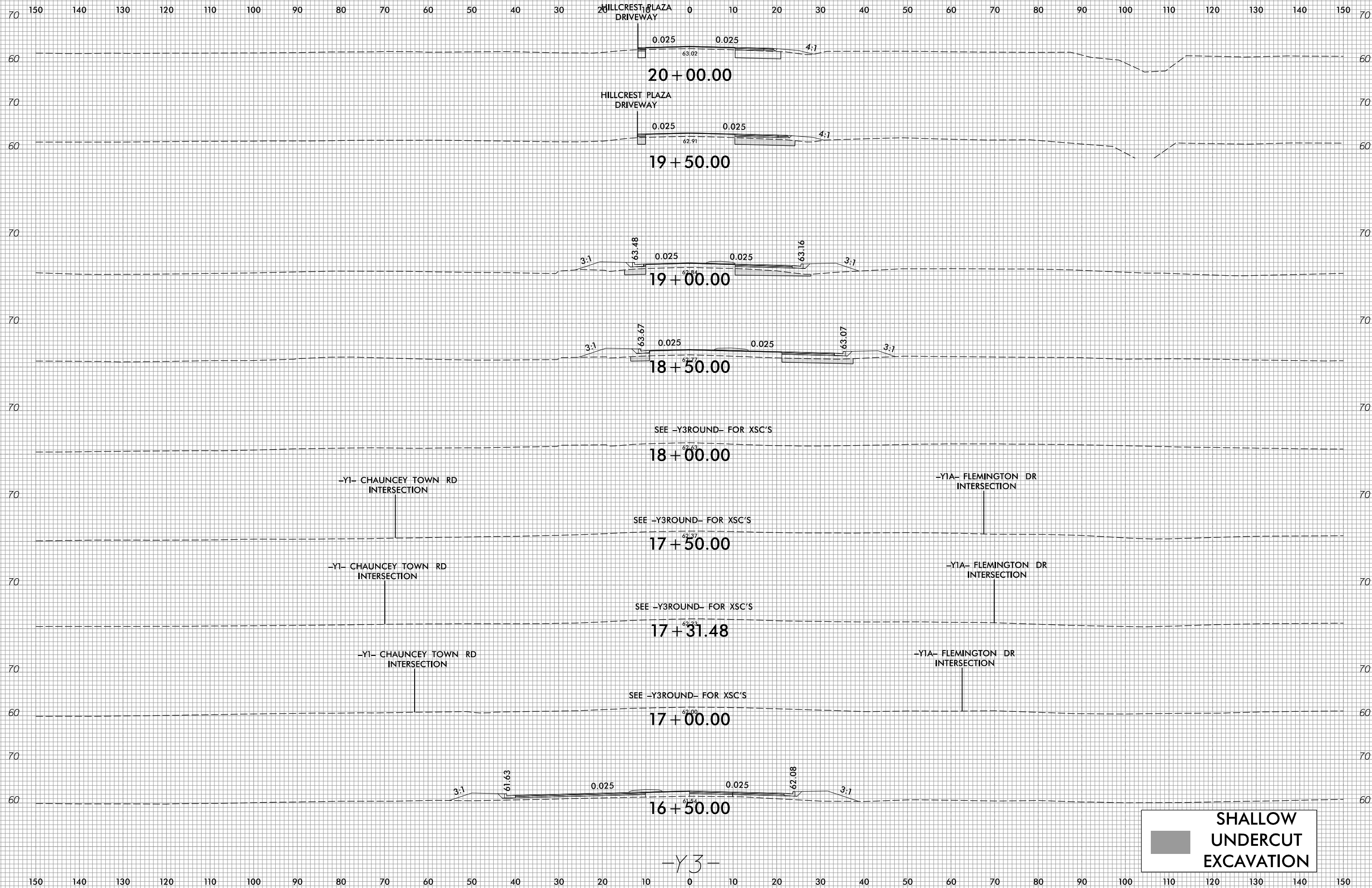
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6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-88



20+00.00

19+50.00

19+00.00

18+50.00

18+00.00

17+50.00

17+31.48

17+00.00

16+50.00

-Y3-

SHALLOW UNDERCUT EXCAVATION

2/15/2022
R:\Roadway\Corridor\Mode Ling\R5819_R5820_RDY_XPL_Y3.dgn
Grant, Augsburg

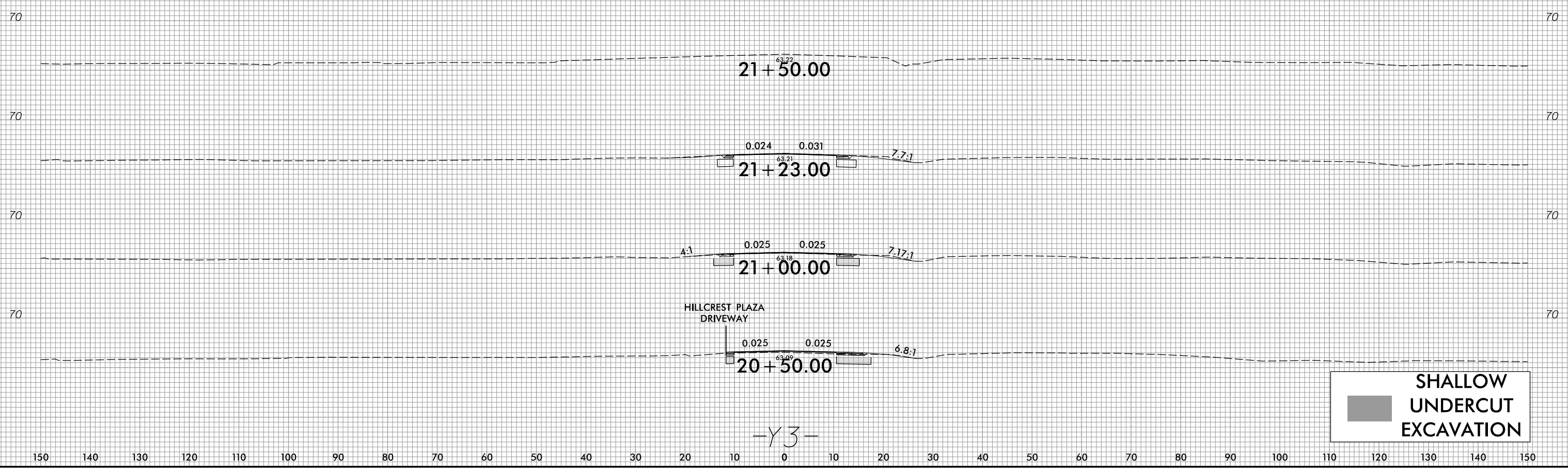
6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-89

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



21+50.00

0.024 0.031
21+23.00

4:1 0.025 0.025
21+00.00

HILLCREST PLAZA DRIVEWAY
0.025 0.025
20+50.00

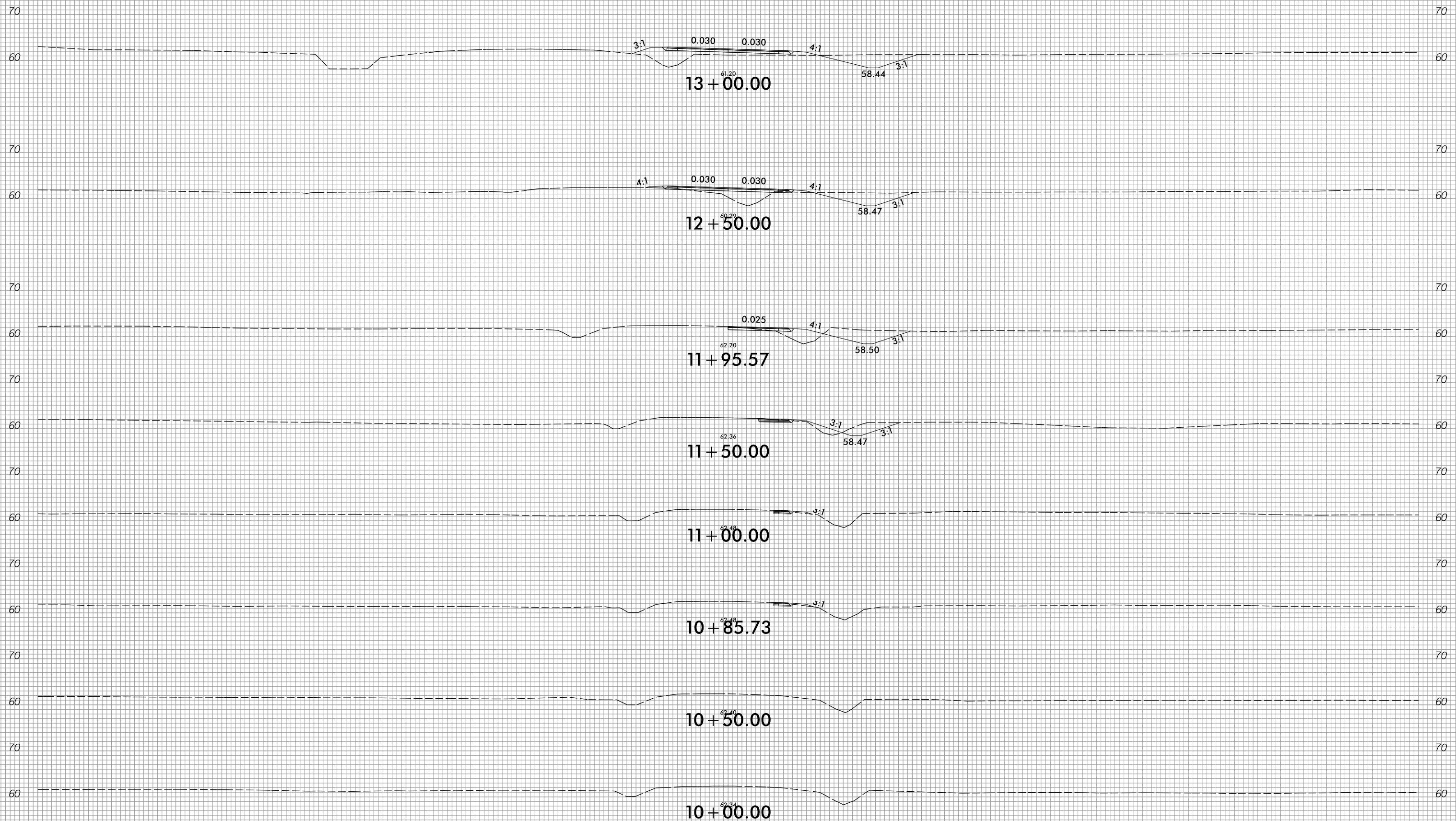
SHALLOW UNDERCUT EXCAVATION

-Y3-

2/15/2022
R:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_Y3.dgn
Grant.Augsburg



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



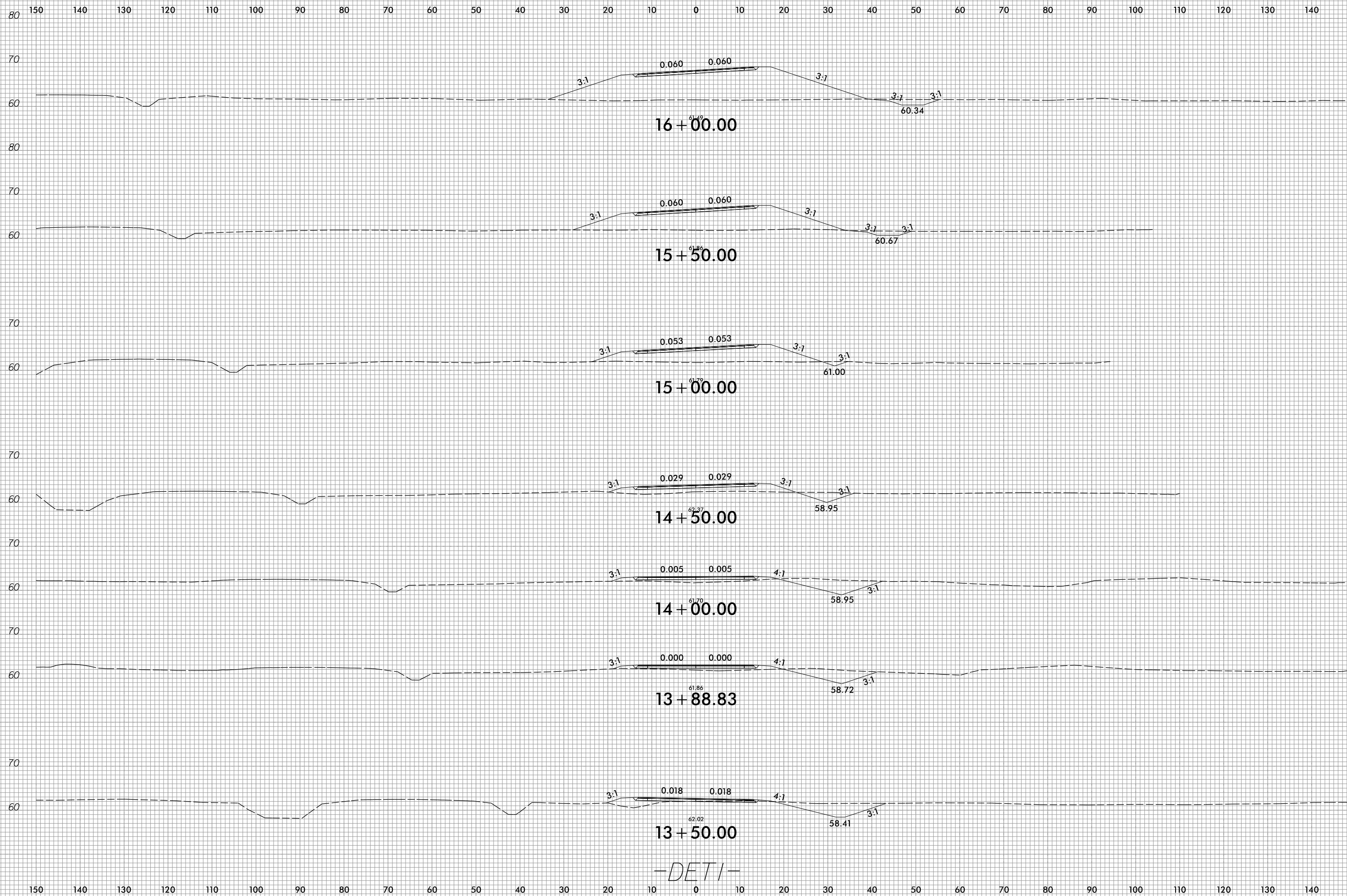
-DET1-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16



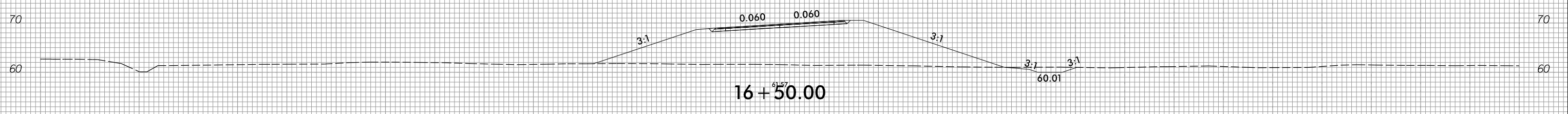
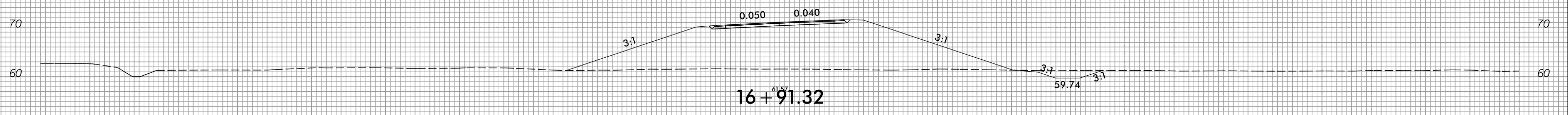
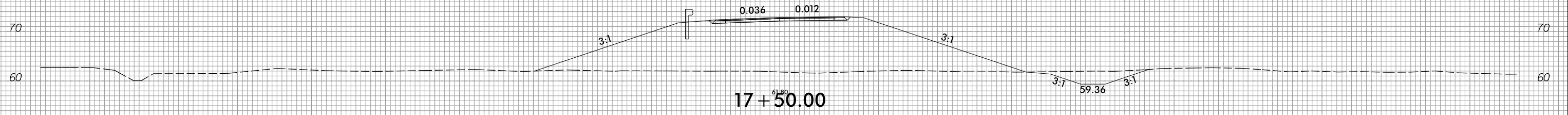
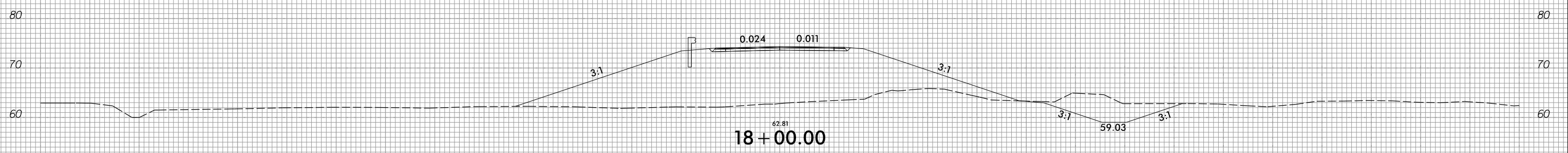
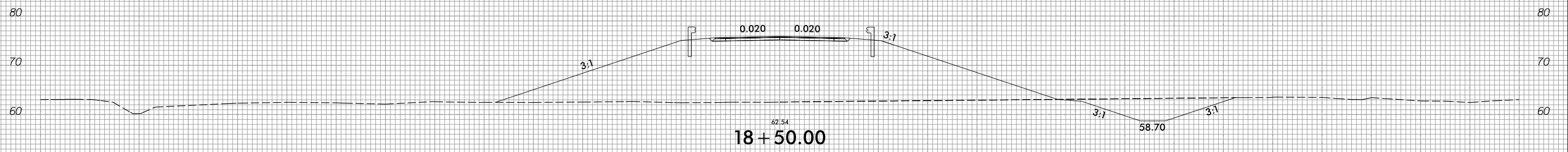
PROJ. REFERENCE NO.	SHEET NO.
R-5819/R-5820	X-91



3/4/2022
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 Eric.Warburton



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

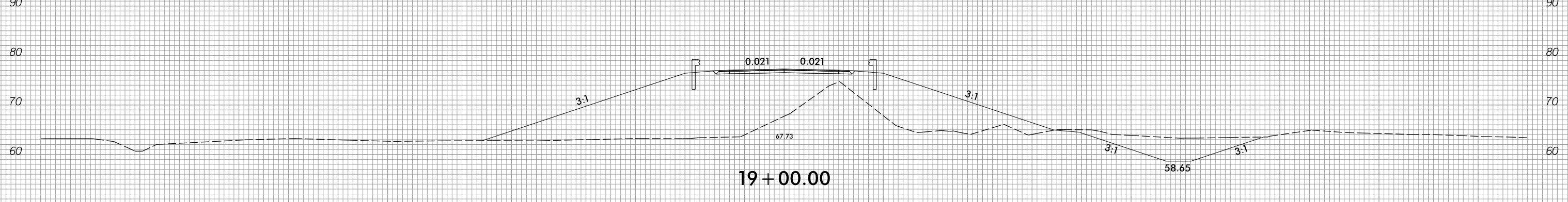
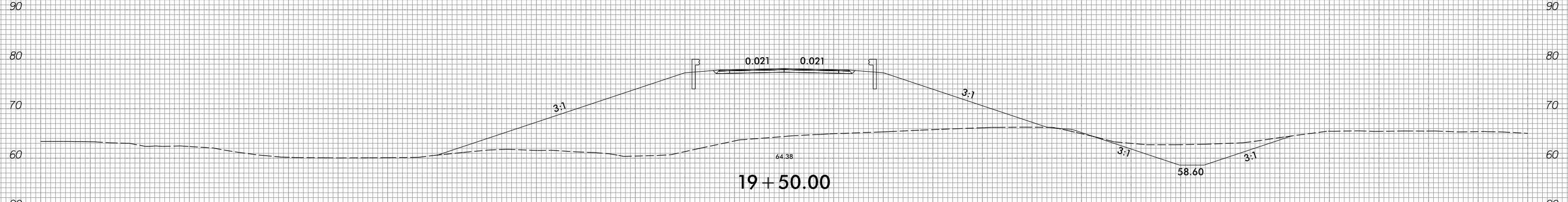
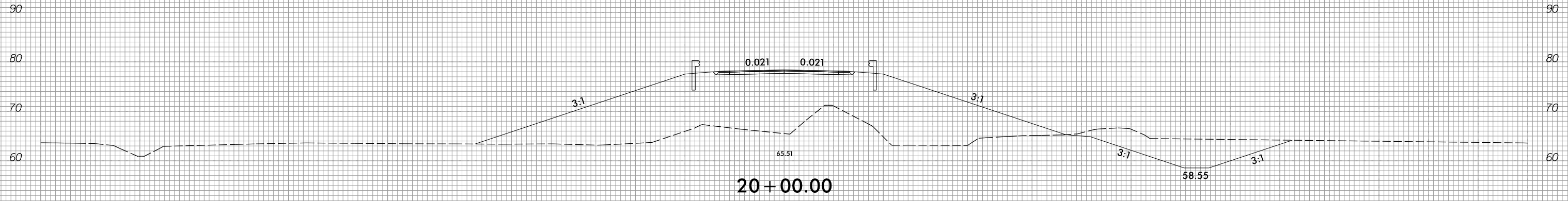
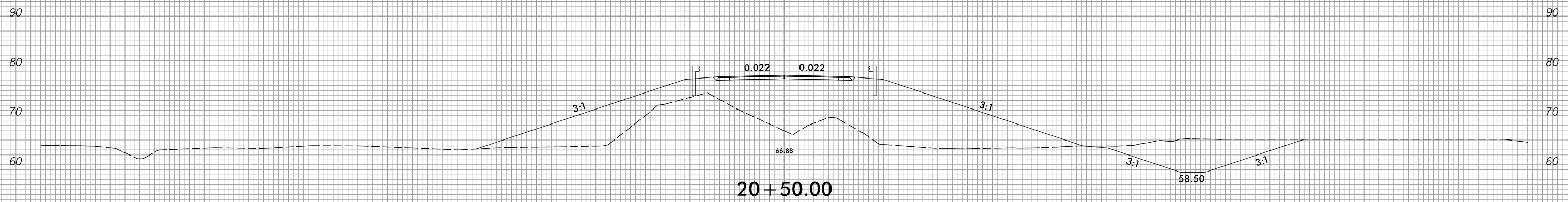


-DET-

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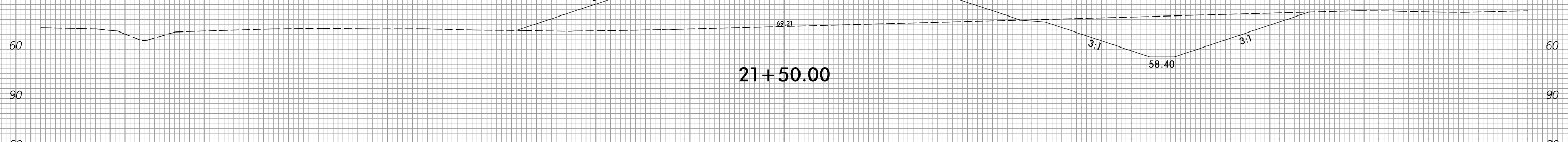
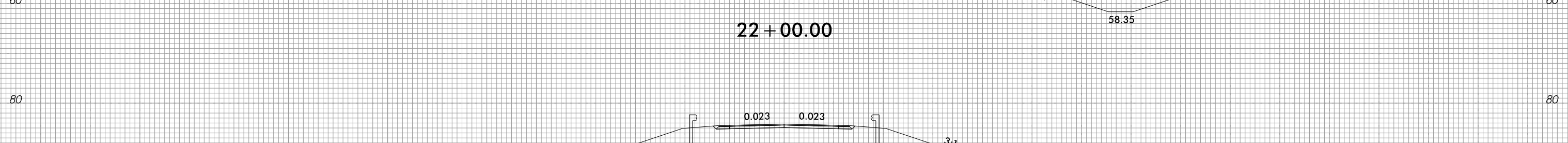
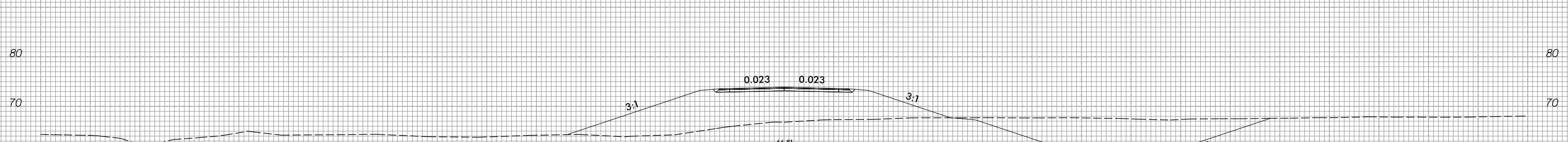
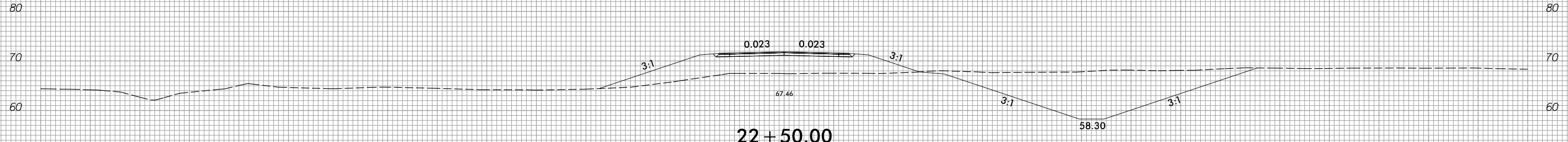
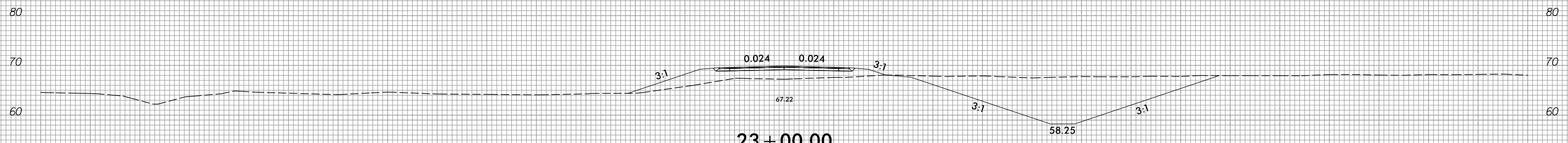


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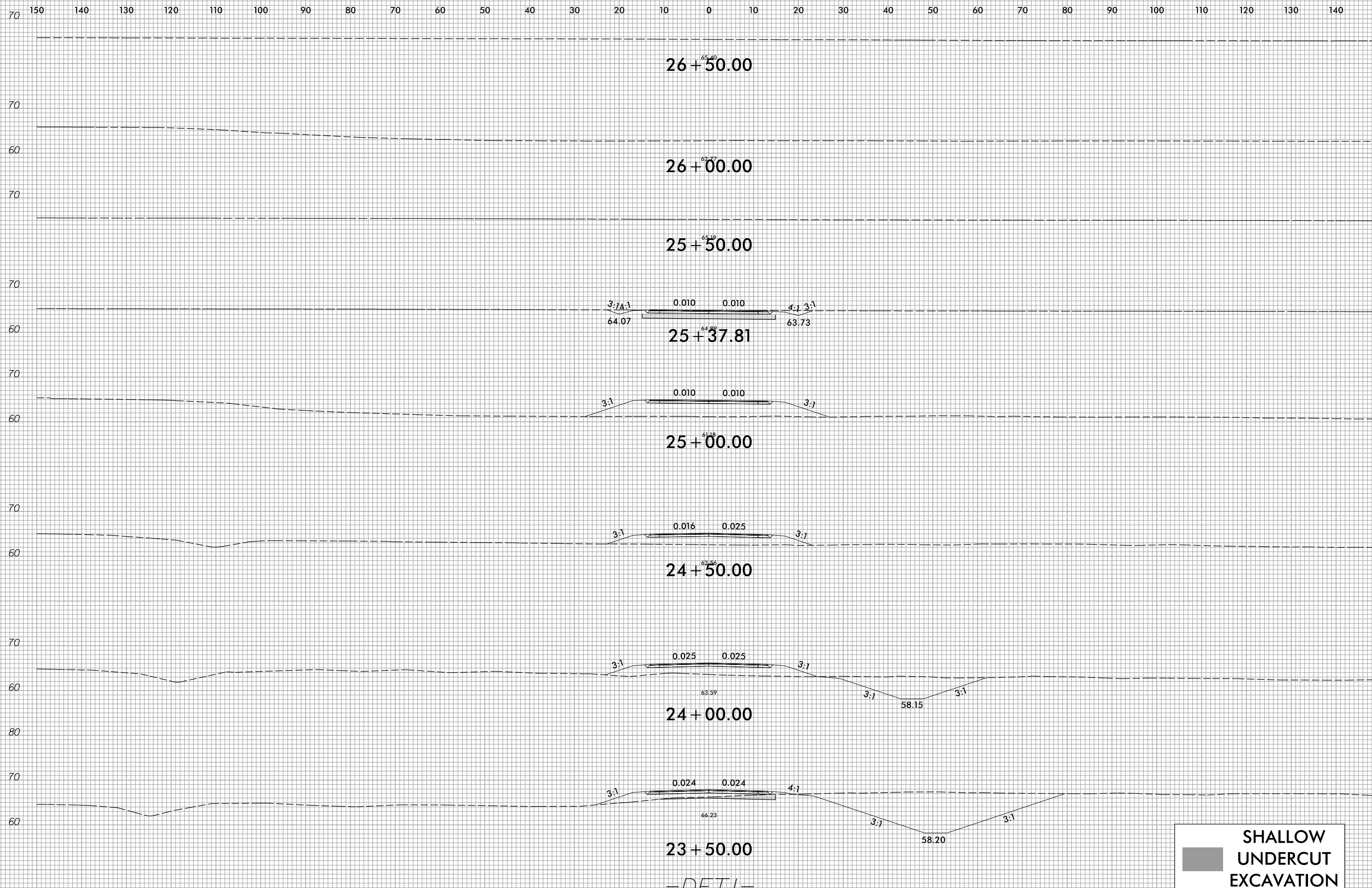


-DET-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-DET1-

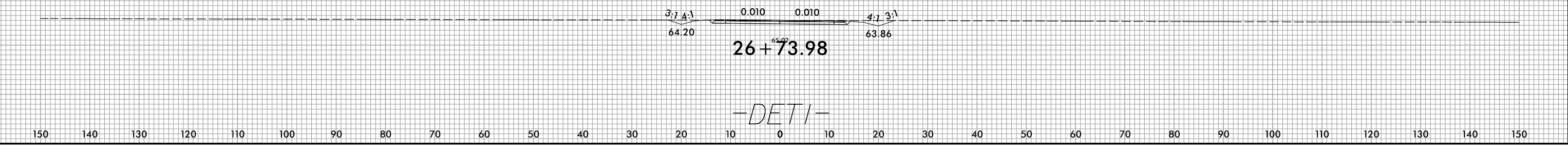
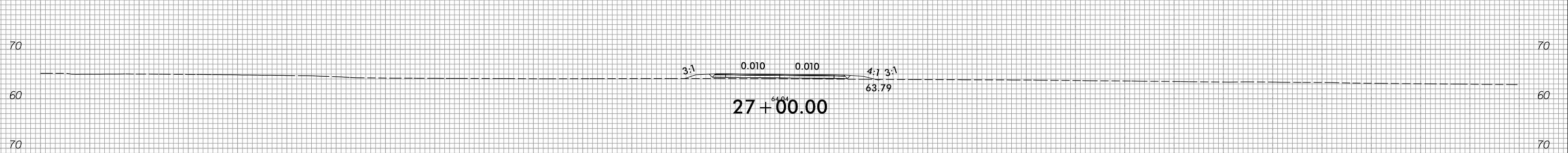
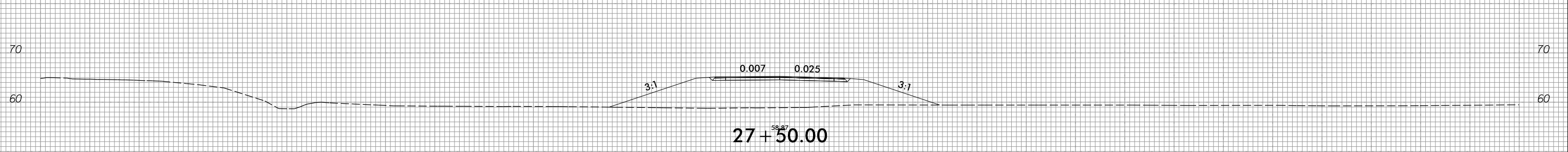
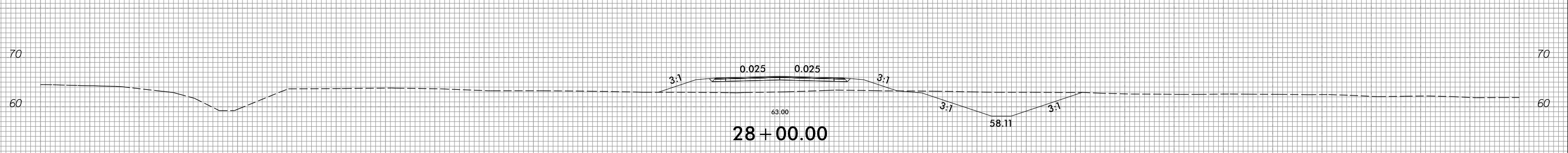
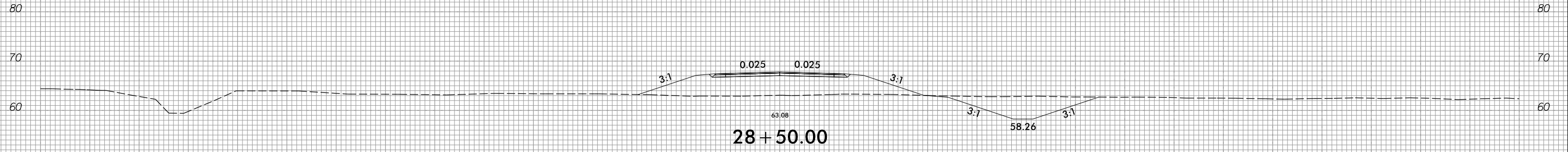
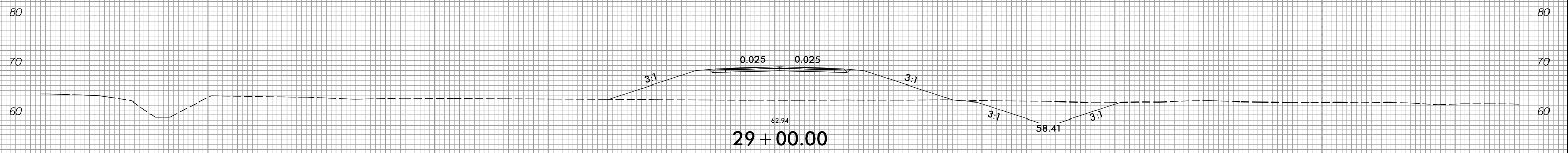


**SHALLOW
UNDERCUT
EXCAVATION**

-DET1-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



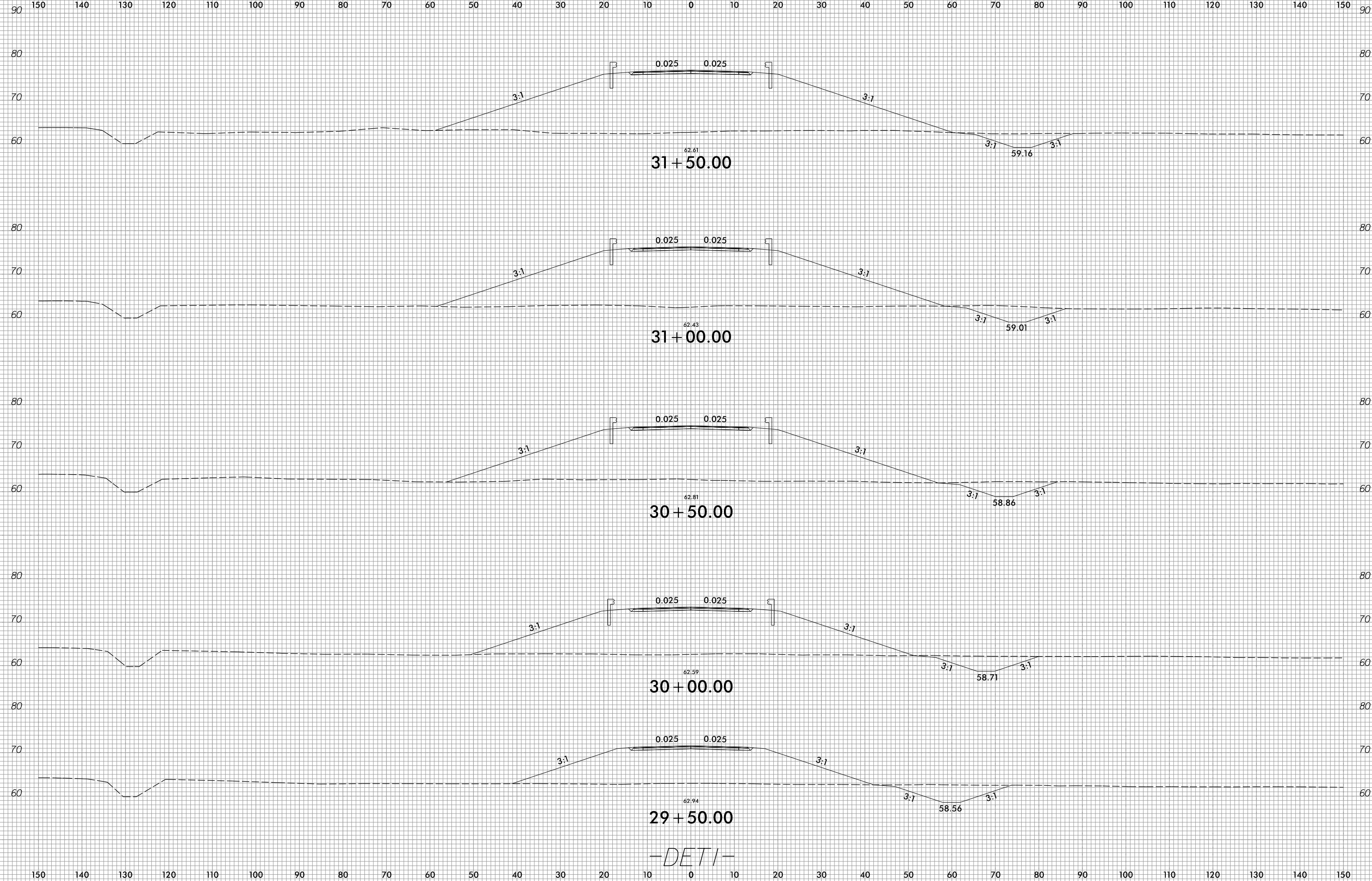
-DET-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819/R-5820	X-97



-DET1-

3/4/2022
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Erica.Warburton

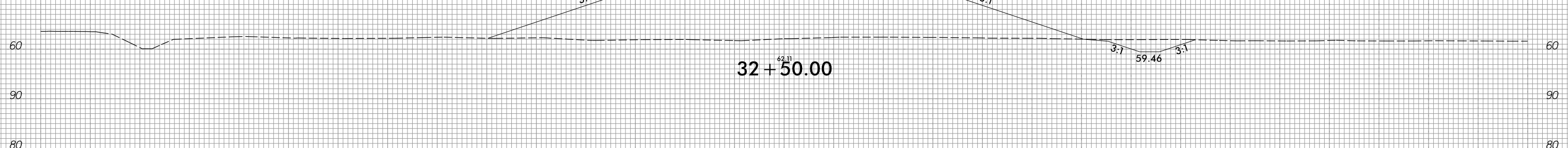
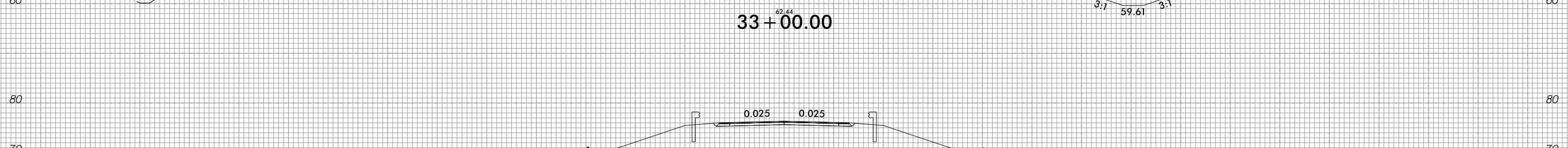
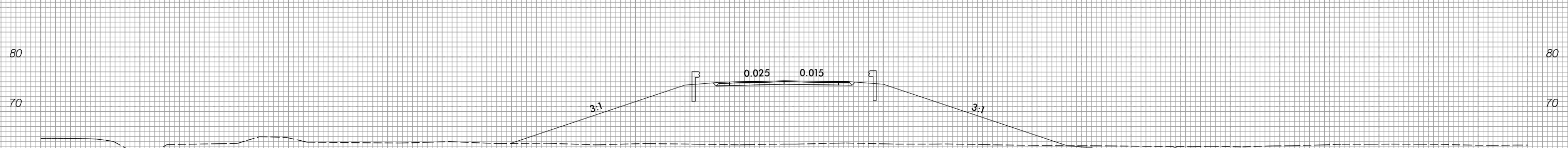
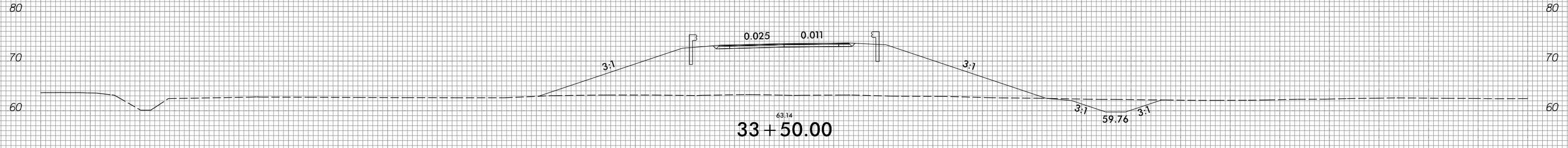
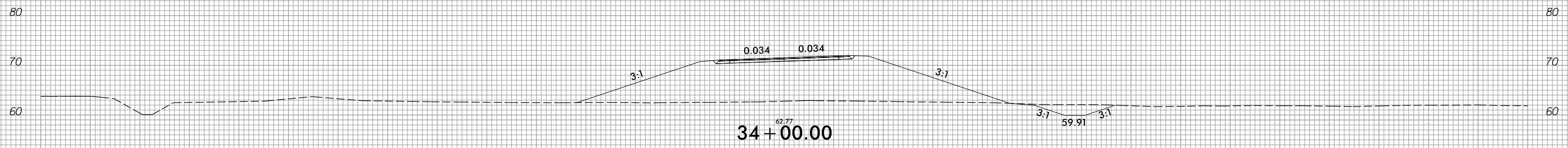
6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-98

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-DET1-

3/4/2022
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Erica.Ryan

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

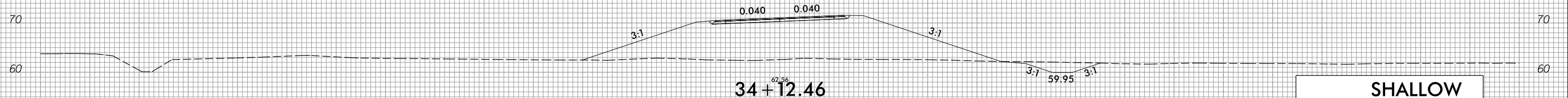
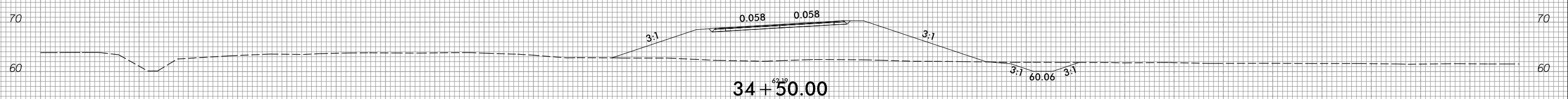
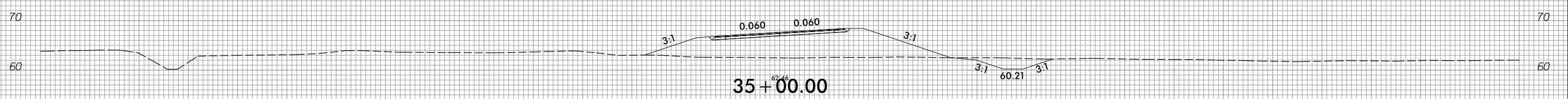
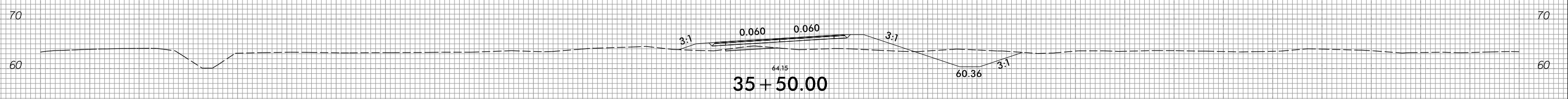
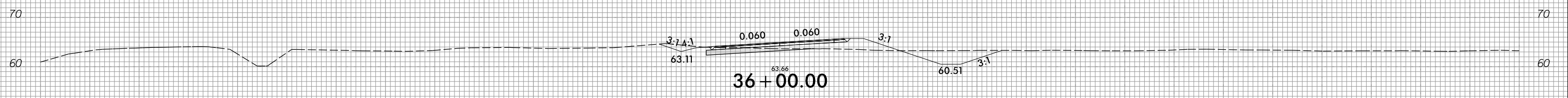
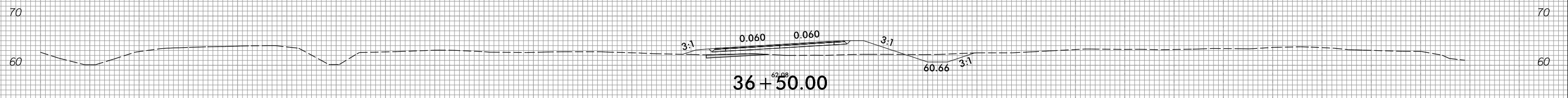
6/23/16



PROJ. REFERENCE NO.
R-5819/R-5820

SHEET NO.
X-99

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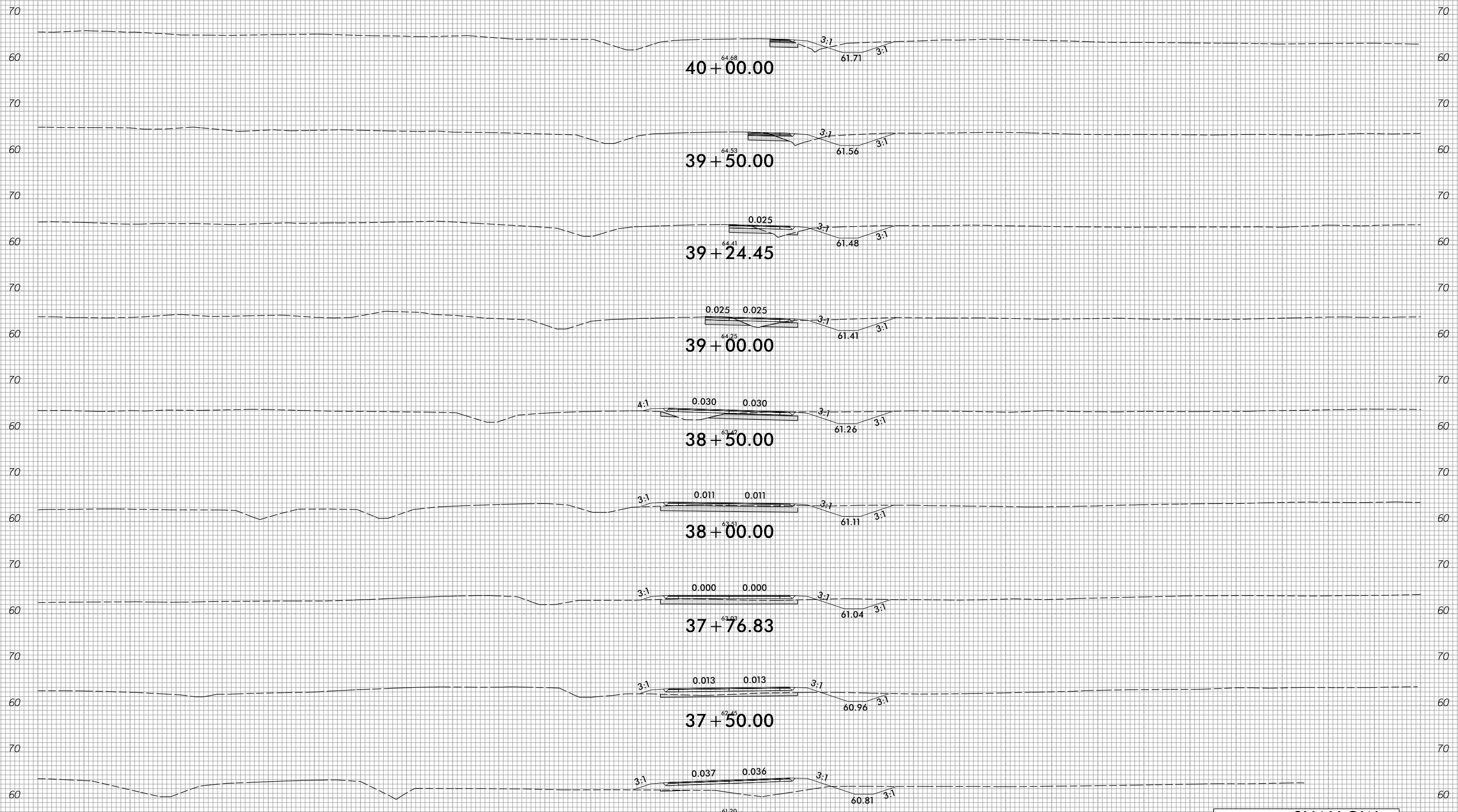
-DET1-

**SHALLOW
UNDERCUT
EXCAVATION**

3/4/2022
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Erica.Warburton



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-DET1-

SHALLOW UNDERCUT EXCAVATION

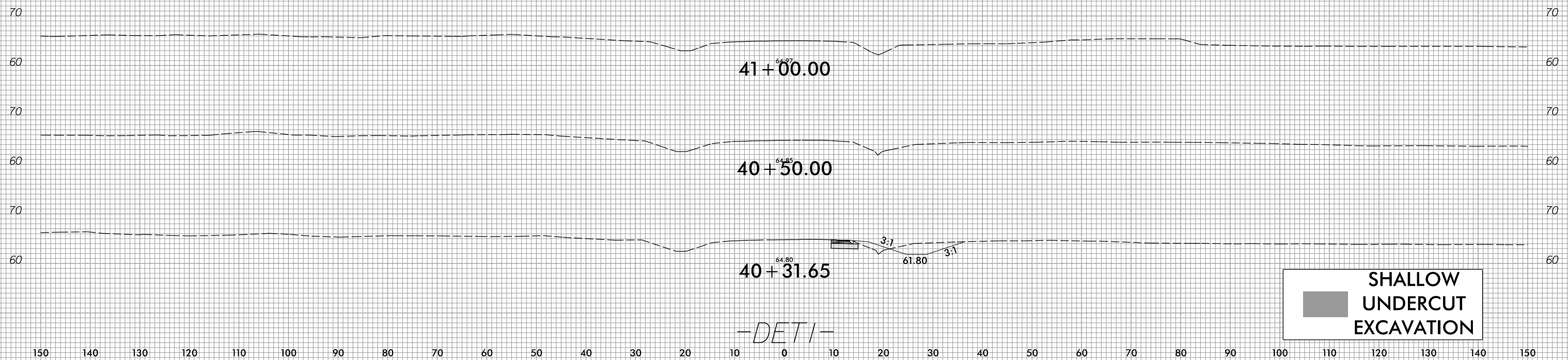
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819/R-5820	X-101

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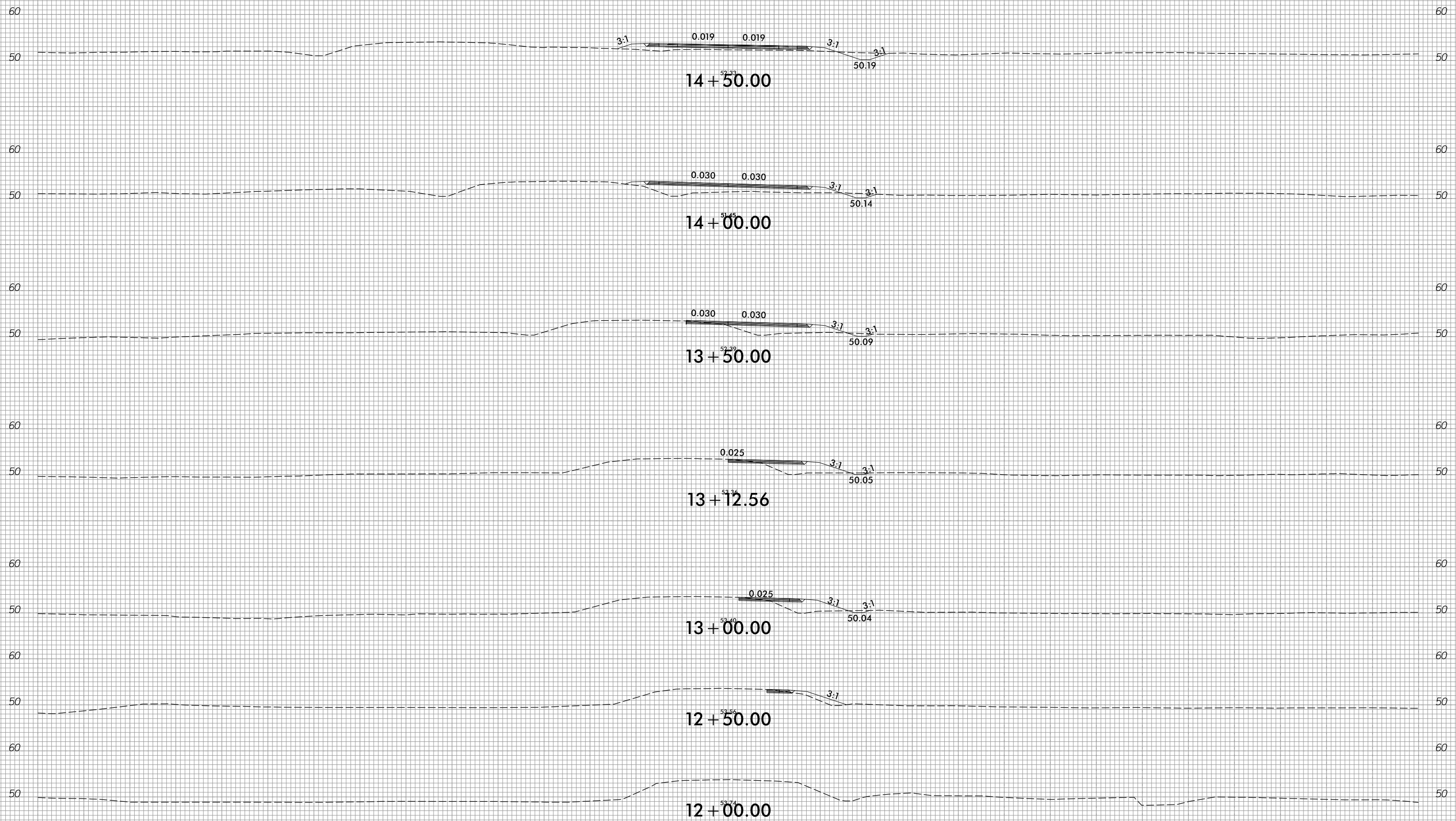
3/4/2022
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 Eric.Warburton

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-102

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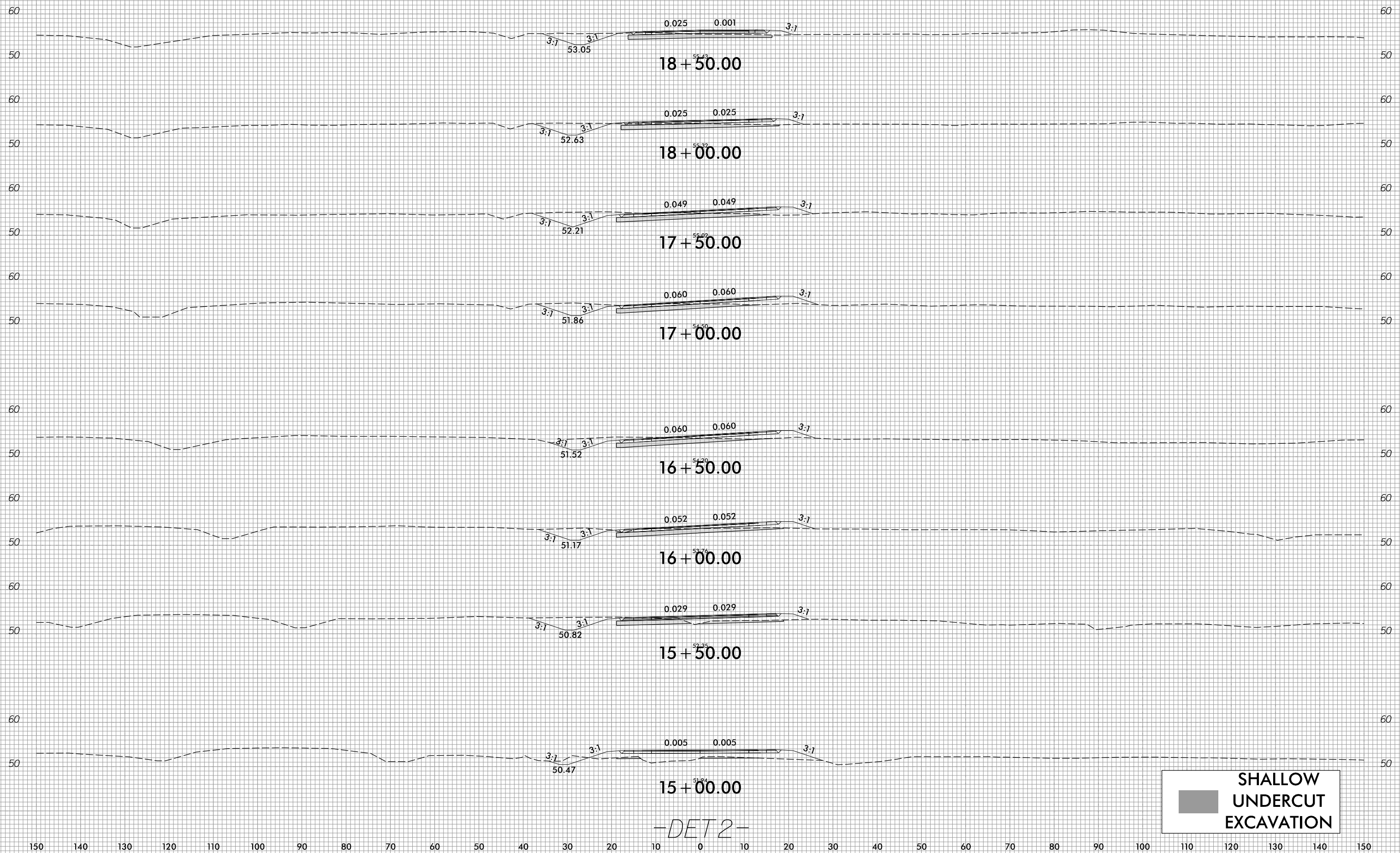


-DET2-

3/4/2022
 E:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_DET2.dgn
 Eric.Warburton



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

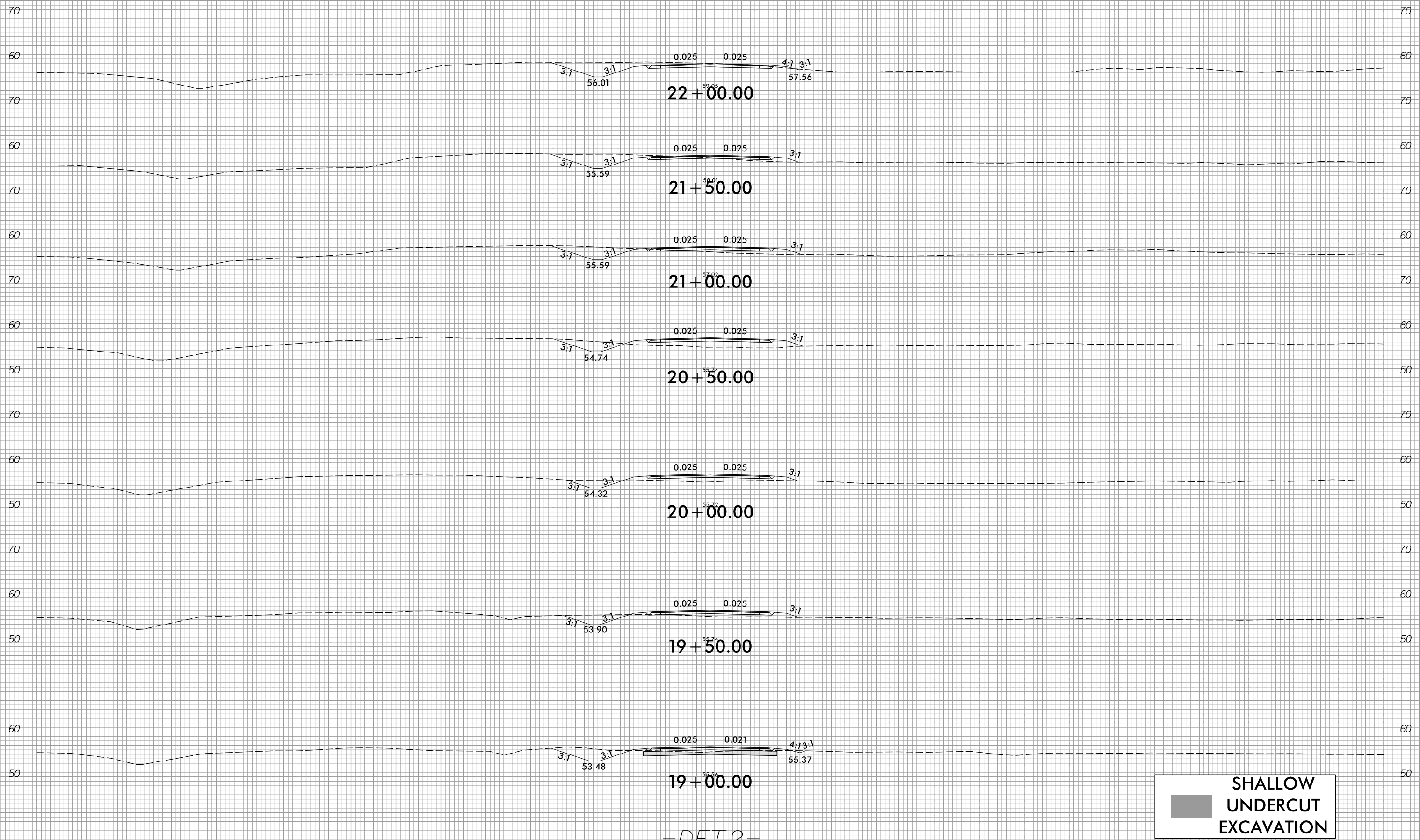


SHALLOW UNDERCUT EXCAVATION

-DET 2-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



**SHALLOW
UNDERCUT
EXCAVATION**

-DET 2-

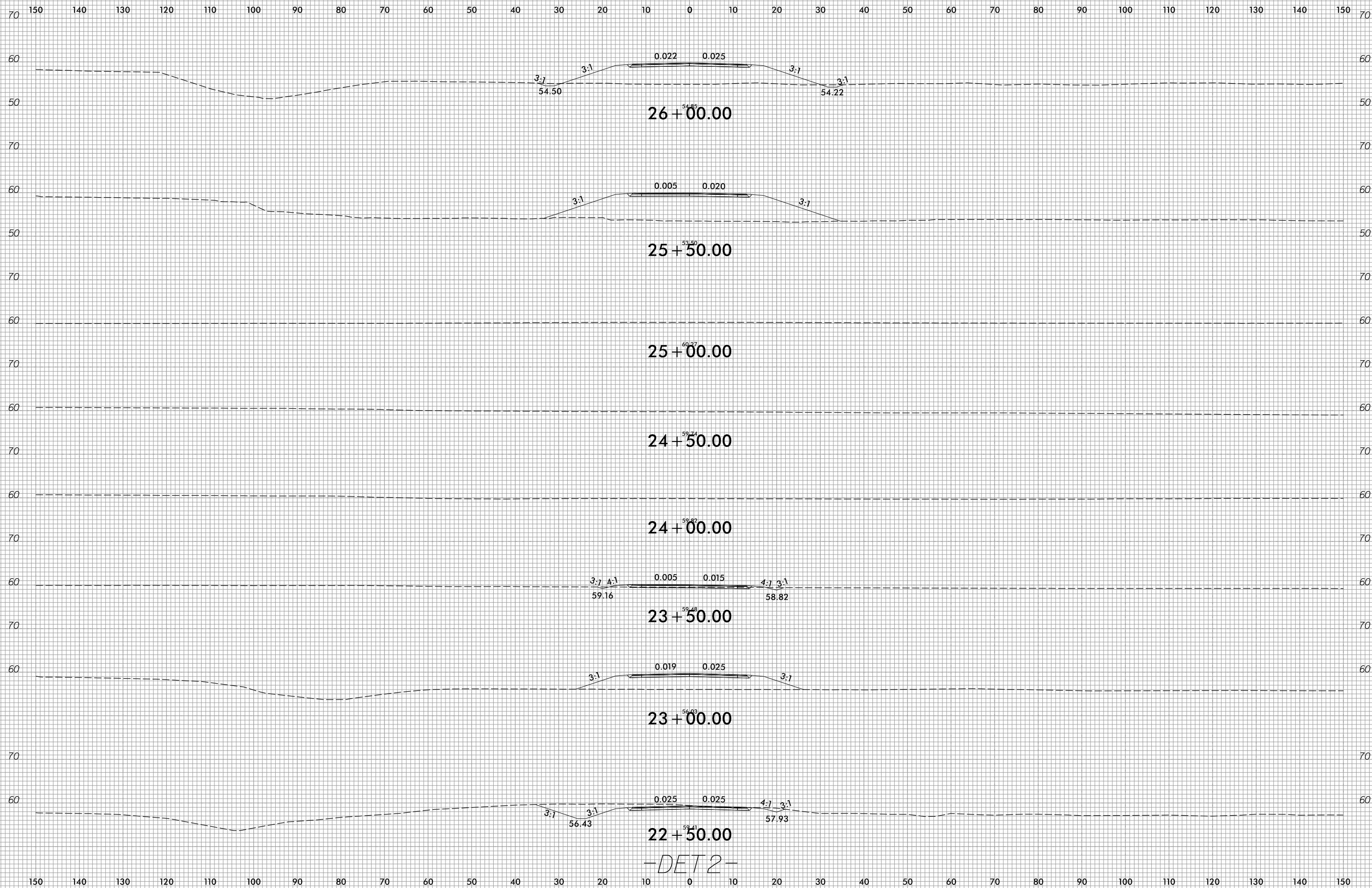
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6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-105



-DET2-

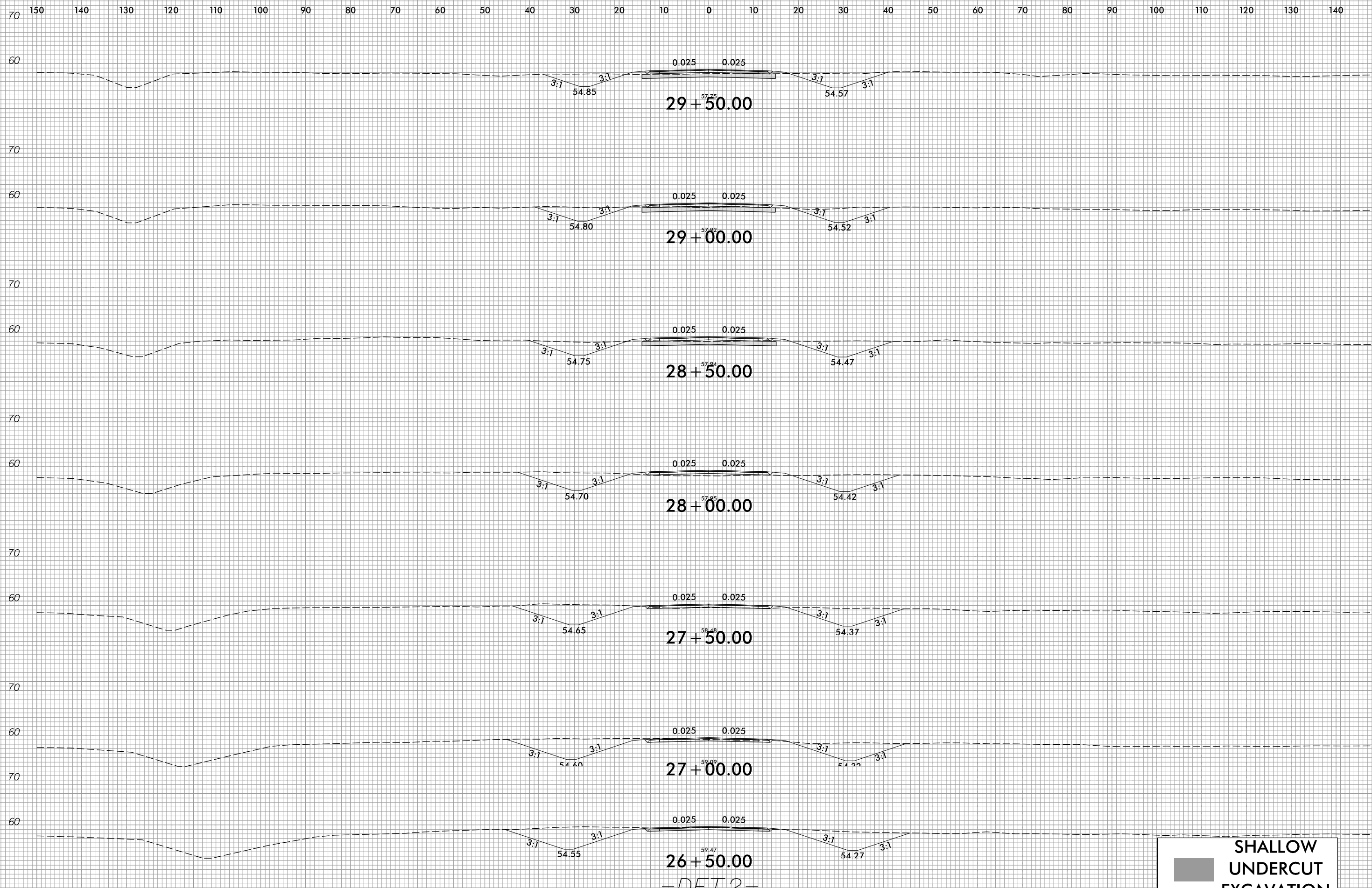
3/4/2022
E:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_DET2.dgn
Erica.Warburton

6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-106



29+50.00

29+00.00

28+50.00

28+00.00

27+50.00

27+00.00

26+50.00

-DET2-

SHALLOW UNDERCUT EXCAVATION

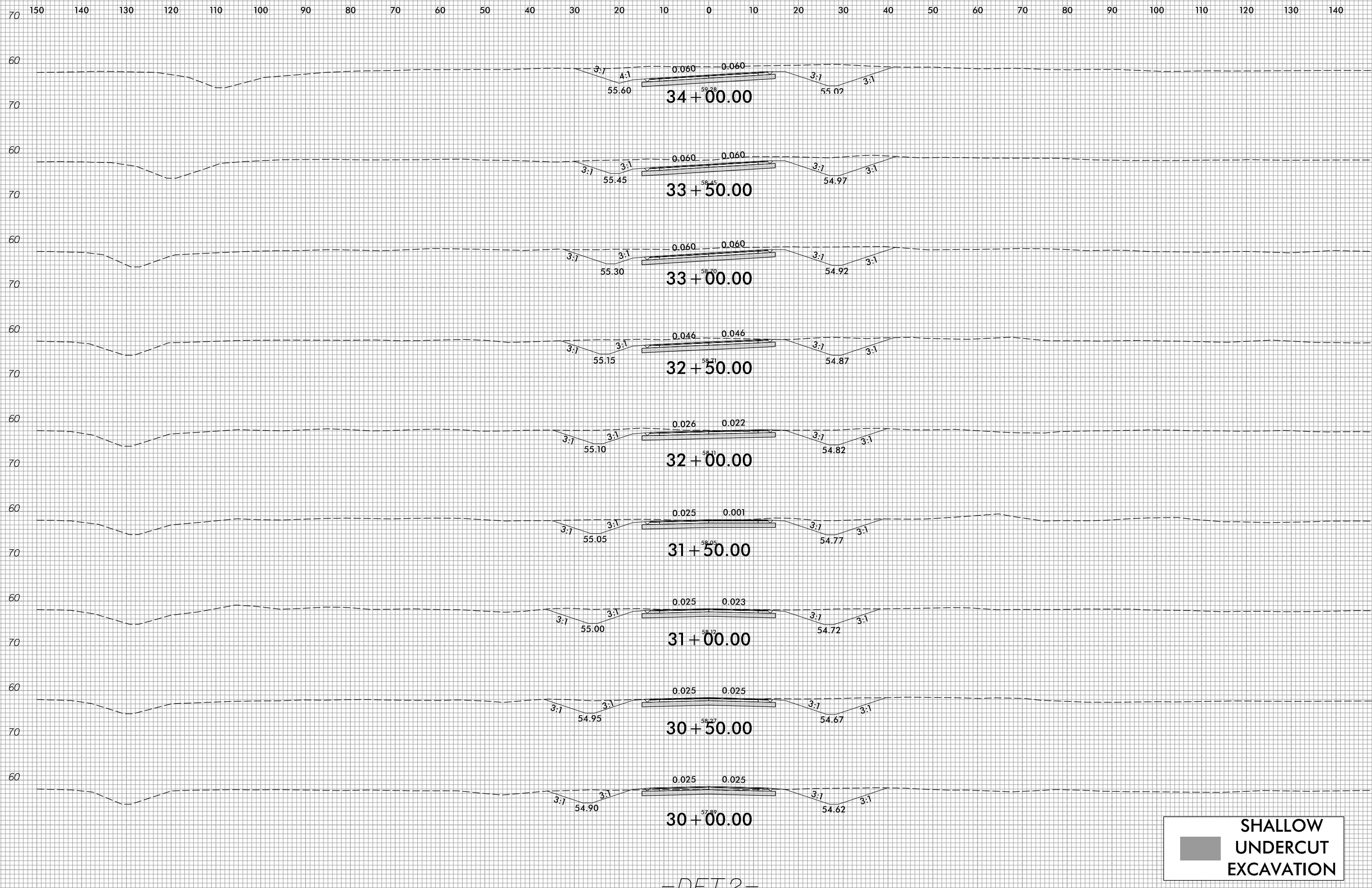
3/4/2022
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Erica.Warburton

6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-107



**SHALLOW
UNDERCUT
EXCAVATION**

-DET2-

3/4/2022
E:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_DET2.dgn
Erica.Warburton

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

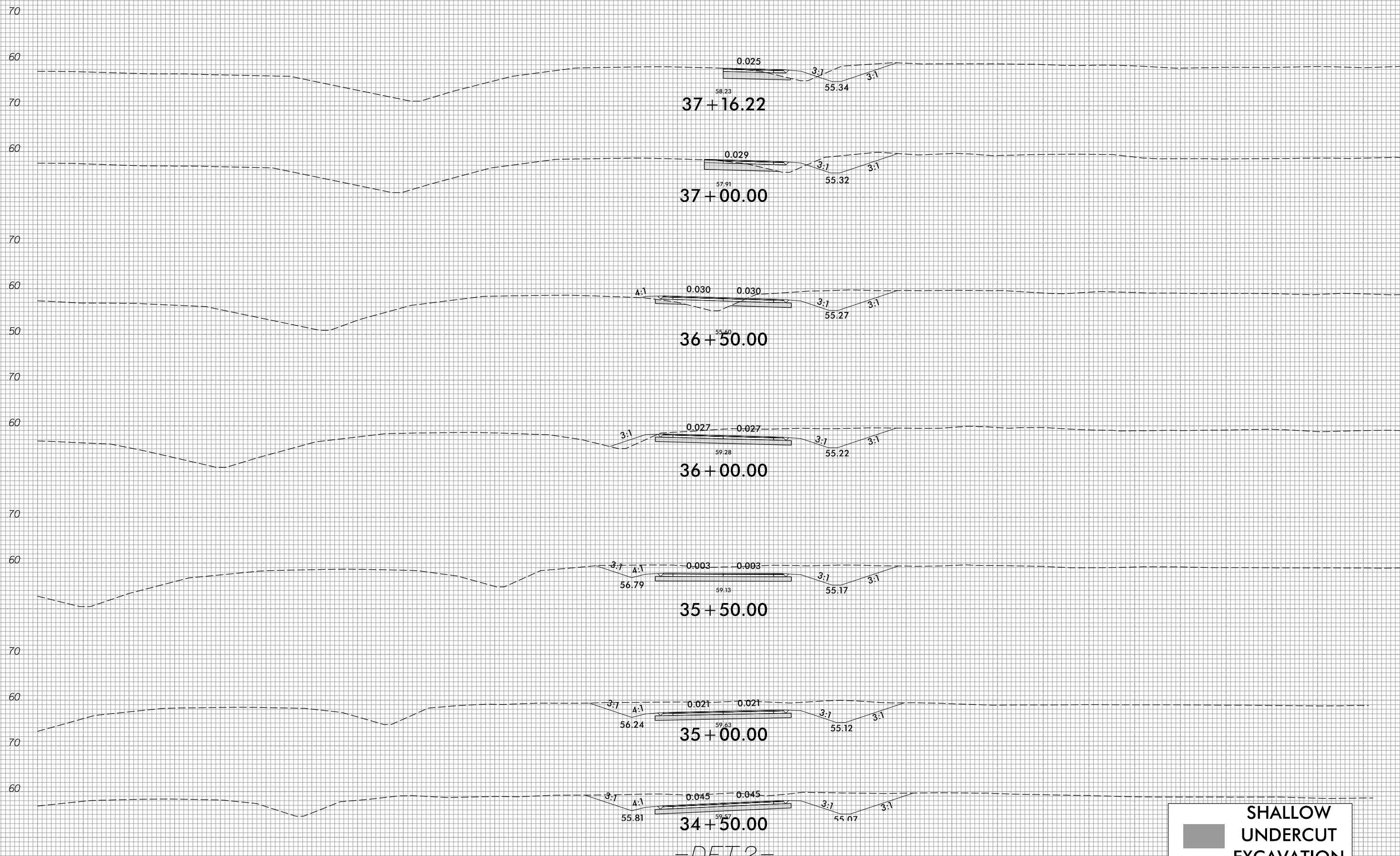
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-108

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



37+16.22

37+00.00

36+50.00

36+00.00

35+50.00

35+00.00

34+50.00

-DET2-

SHALLOW
UNDERCUT
EXCAVATION

3/4/2022
E:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_DET2.dgn
Erica.Warburton

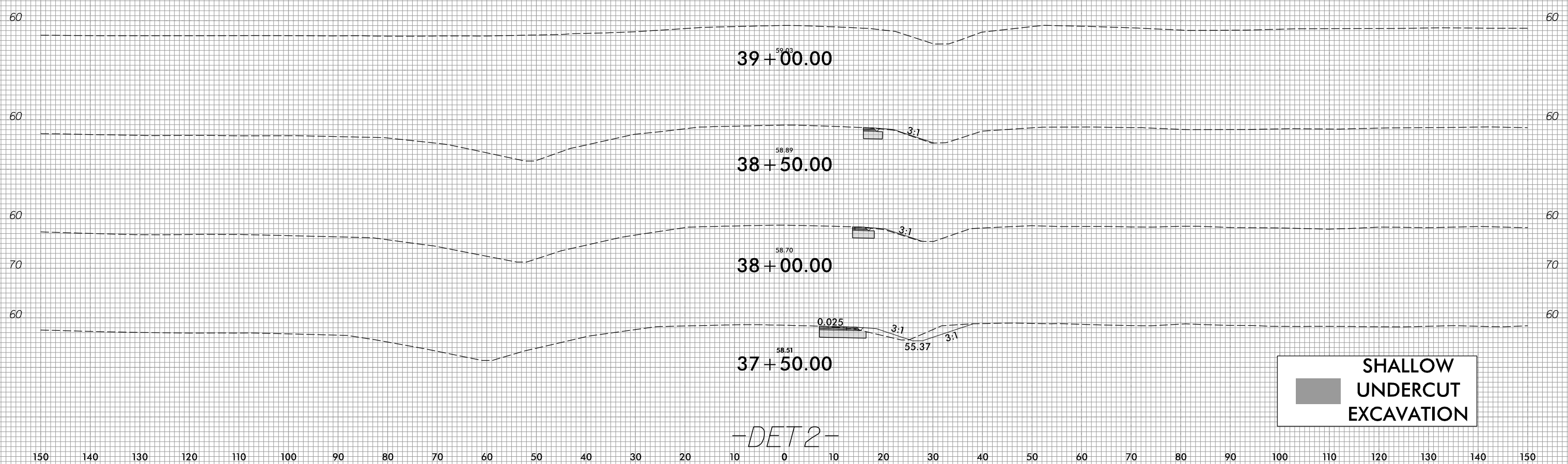
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-109

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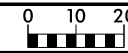


-DET 2-

SHALLOW
UNDERCUT
EXCAVATION

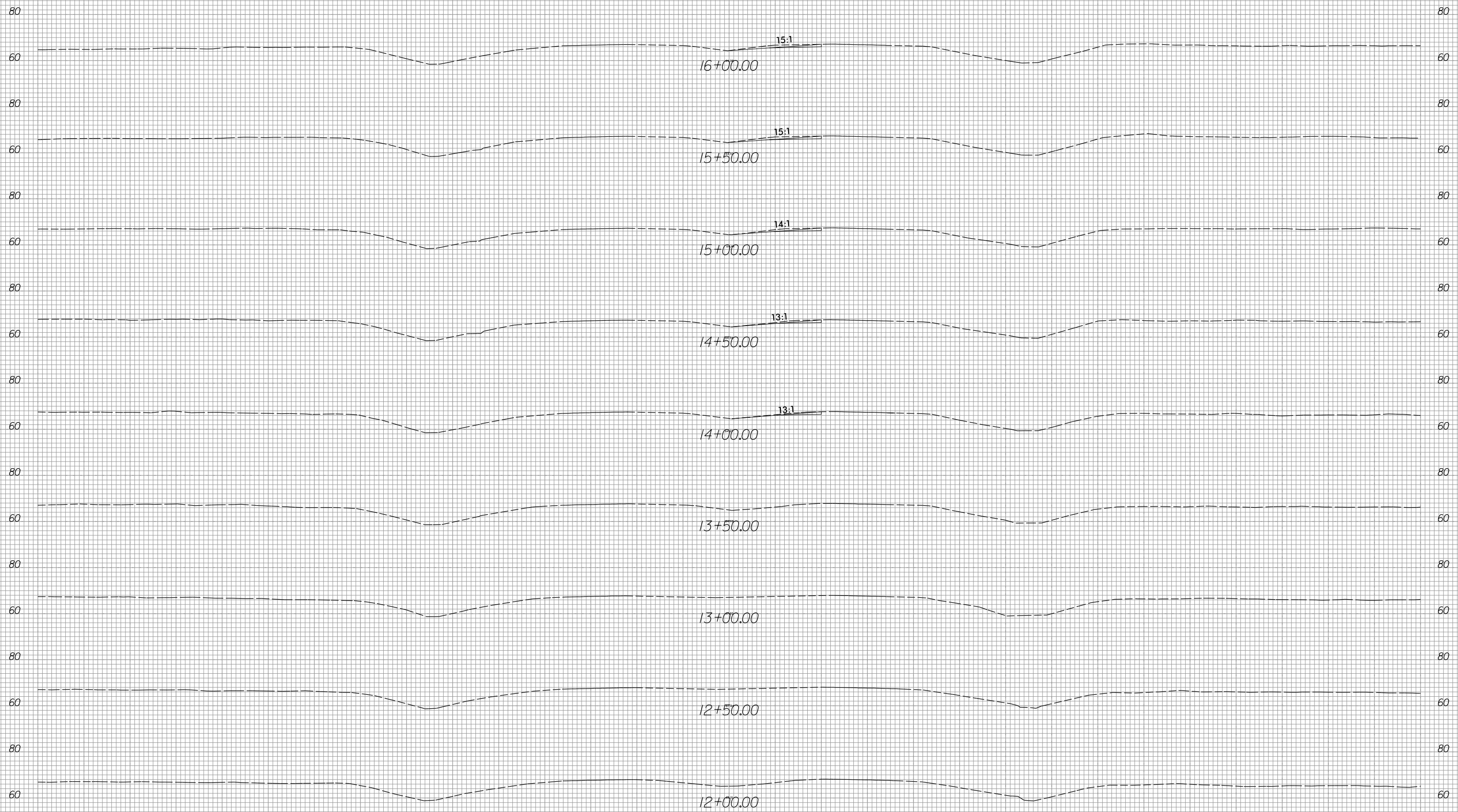
3/4/2022
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Eric.Warburton

6/23/16



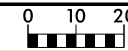
PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-110

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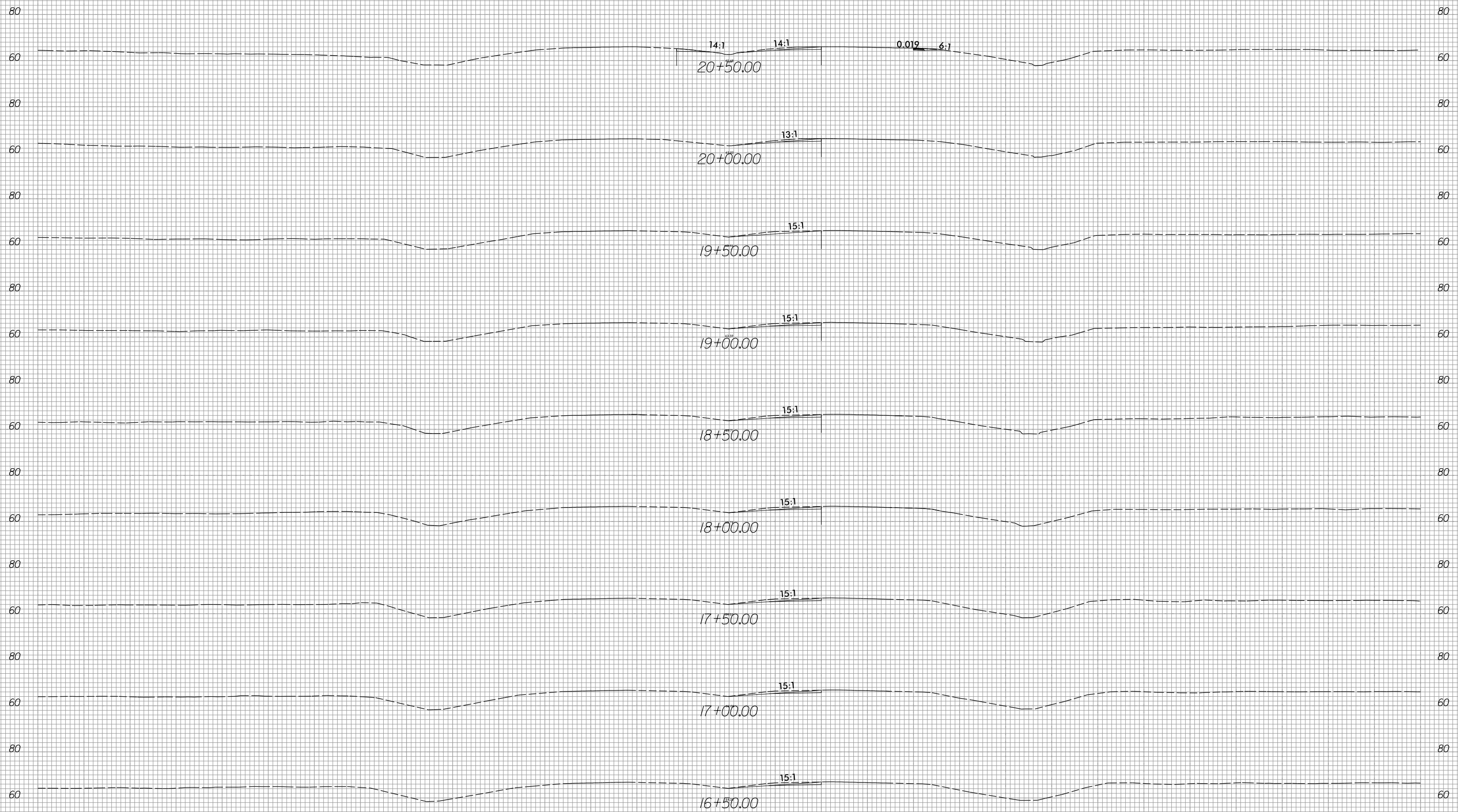


-L- DETOUR

2/15/2022
 R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_L_DET.dgn
 Grant, Augsburg



300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



-L- DETOUR

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

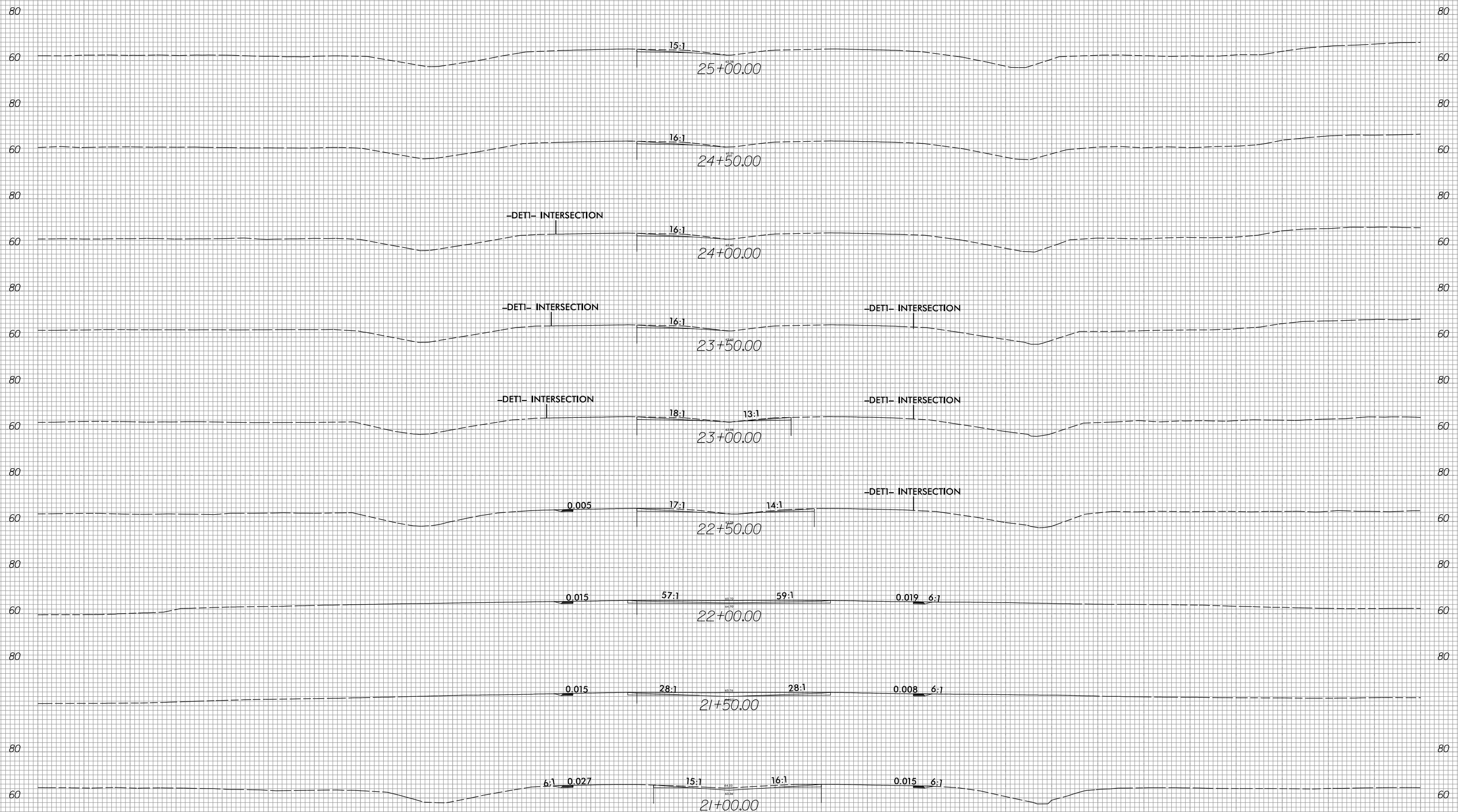
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-112

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



-DET1- INTERSECTION

-DET1- INTERSECTION

-DET1- INTERSECTION

-DET1- INTERSECTION

-DET1- INTERSECTION

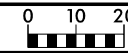
-DET1- INTERSECTION

-L- DETOUR

2/15/2022
R:\Roadway\CorridorMode\Ing\R5819_R5820_RDY_XPL_L_DET.dgn
Grant.Augsburg

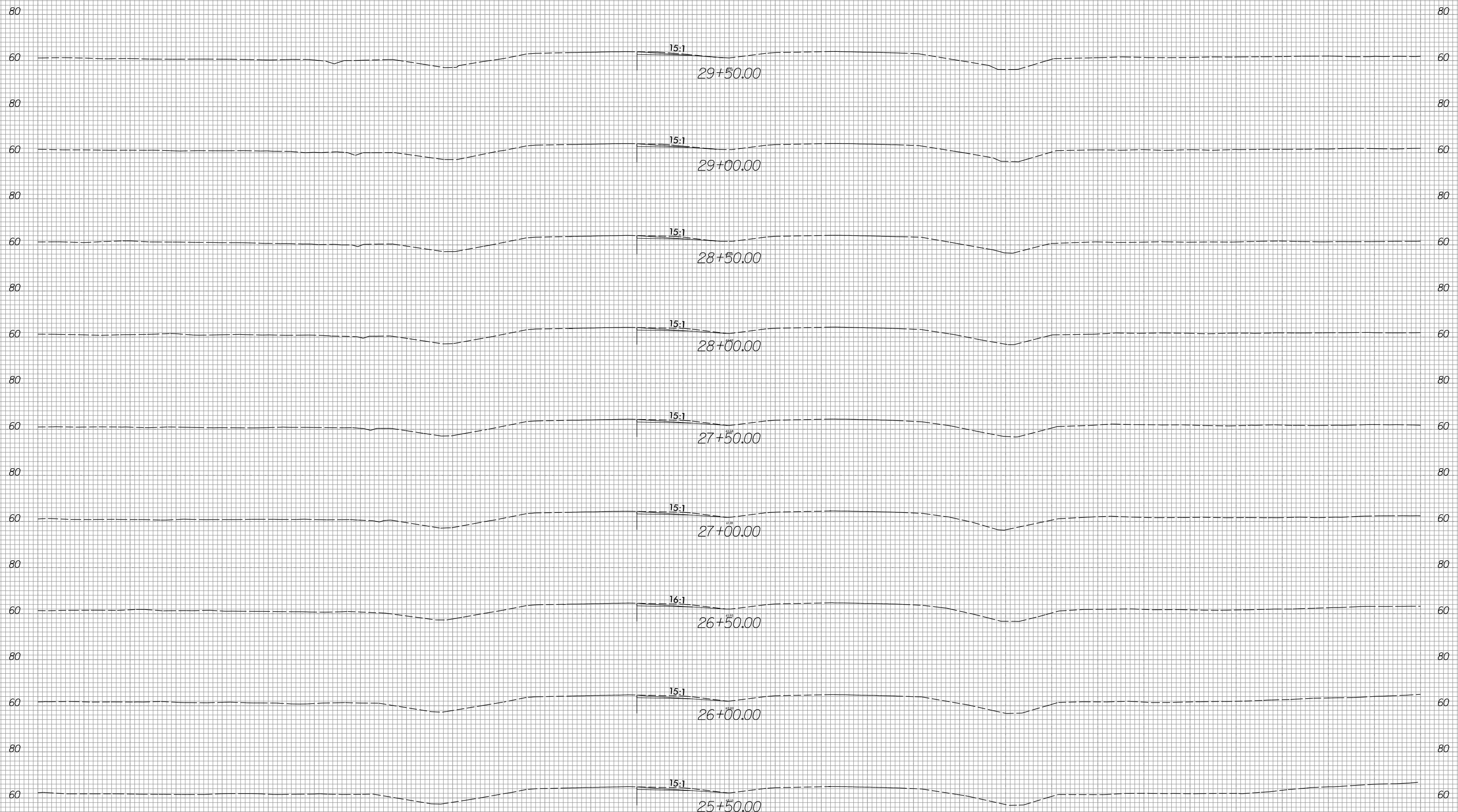
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-113

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

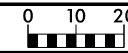


-L- DETOUR

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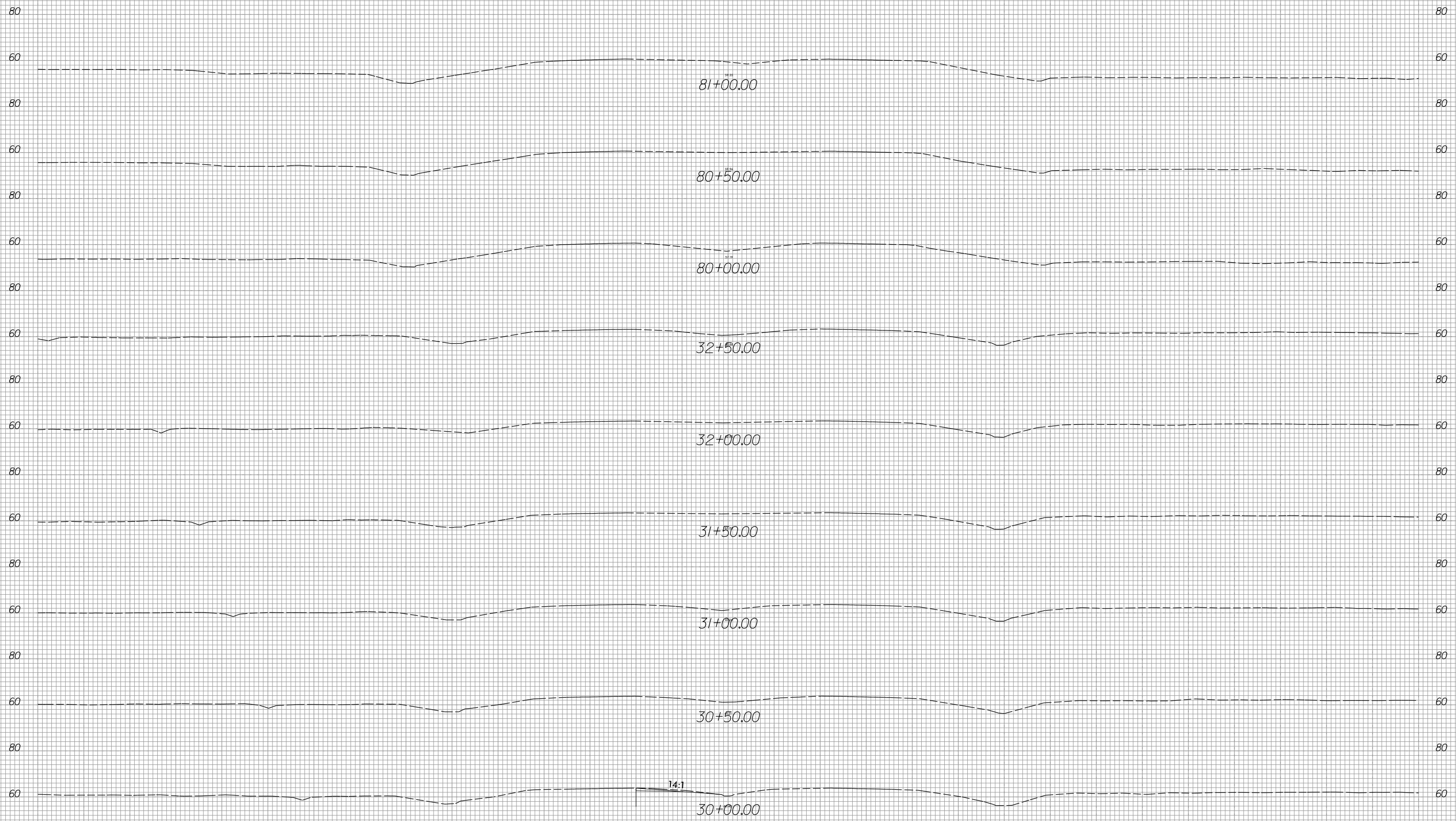
2/15/2022 R:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_L_DET.dgn Grant, Augsburg

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-114

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

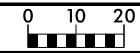


-L- DETOUR

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

2/15/2022
 R:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_L_DET.dgn
 Grant, Augsburg

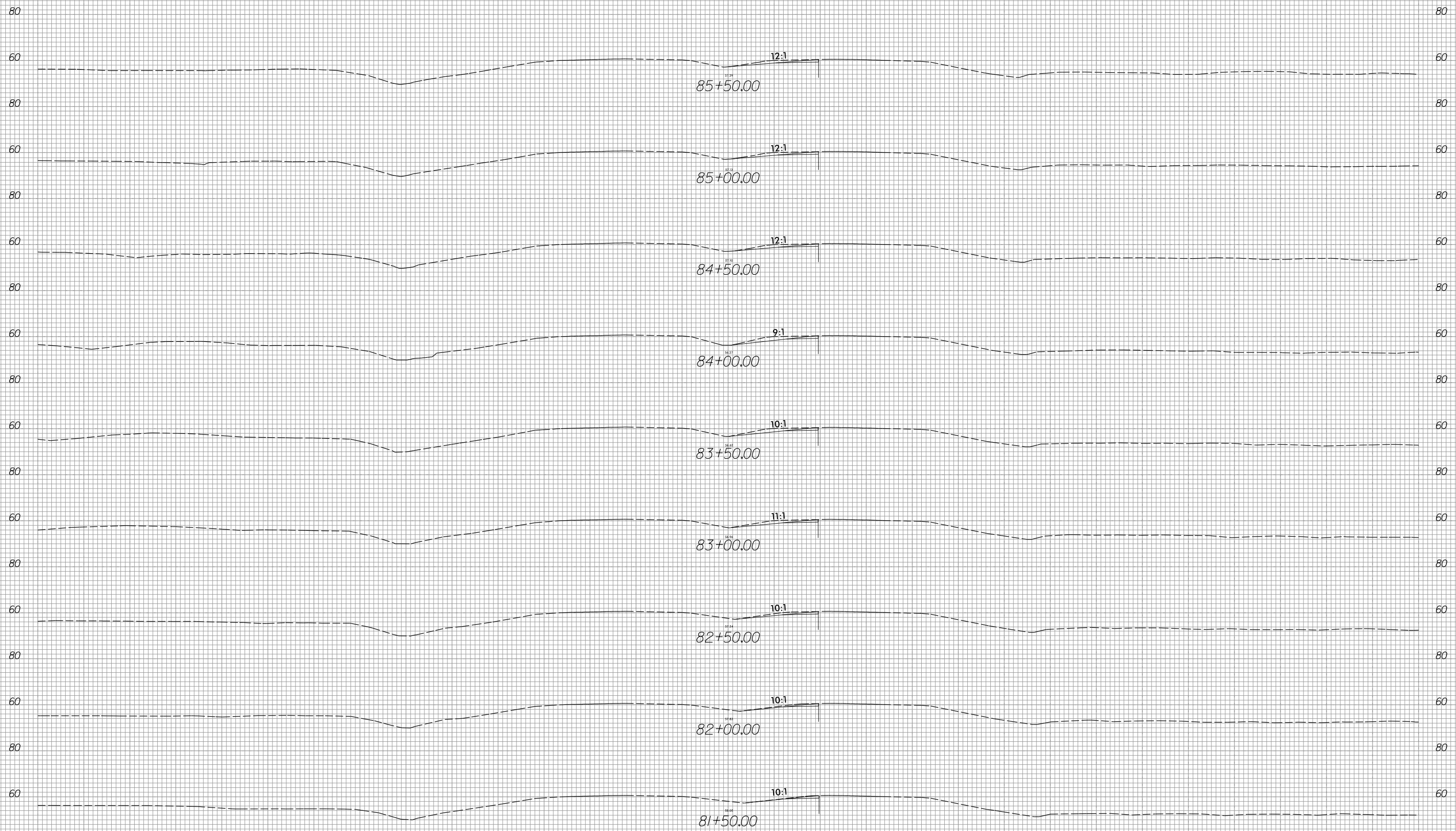
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-115

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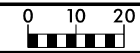


-L- DETOUR

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

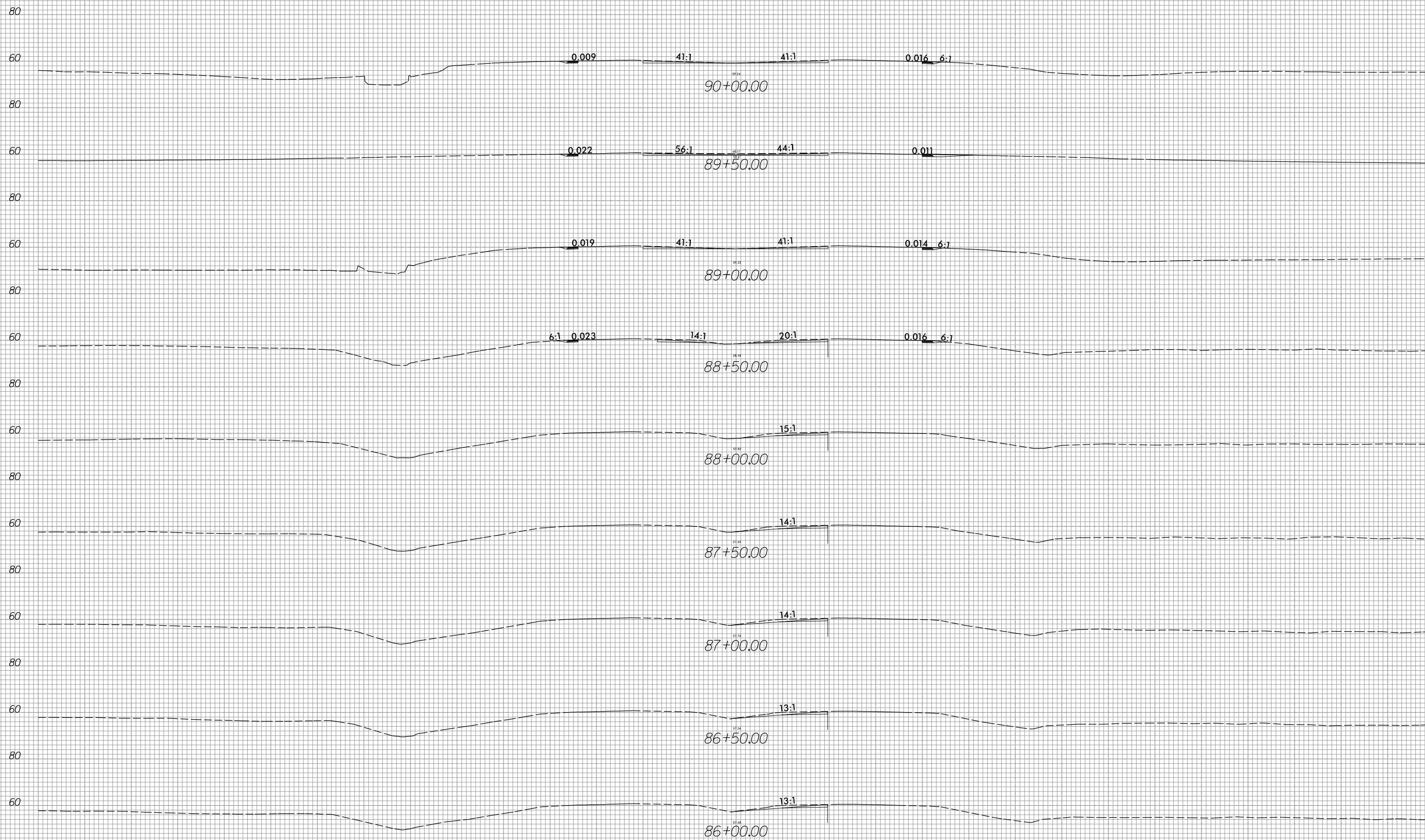
2/15/2022
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Grant\Augsburg

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-116

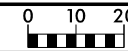
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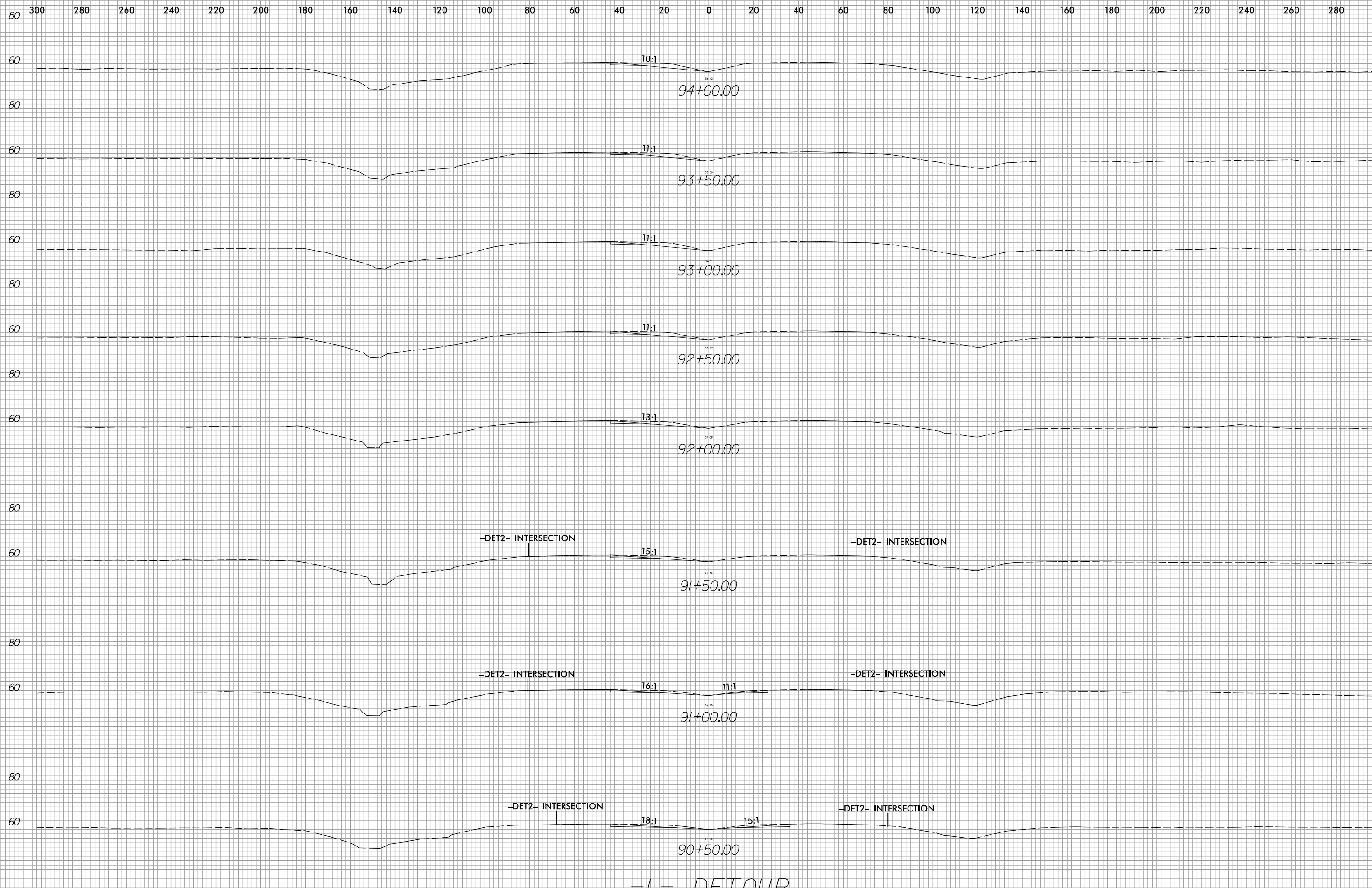
-L- DETOUR

2/15/2022
 R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_L_DET.dgn
 Grant, Augsburg

6/23/16

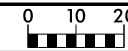


PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-117



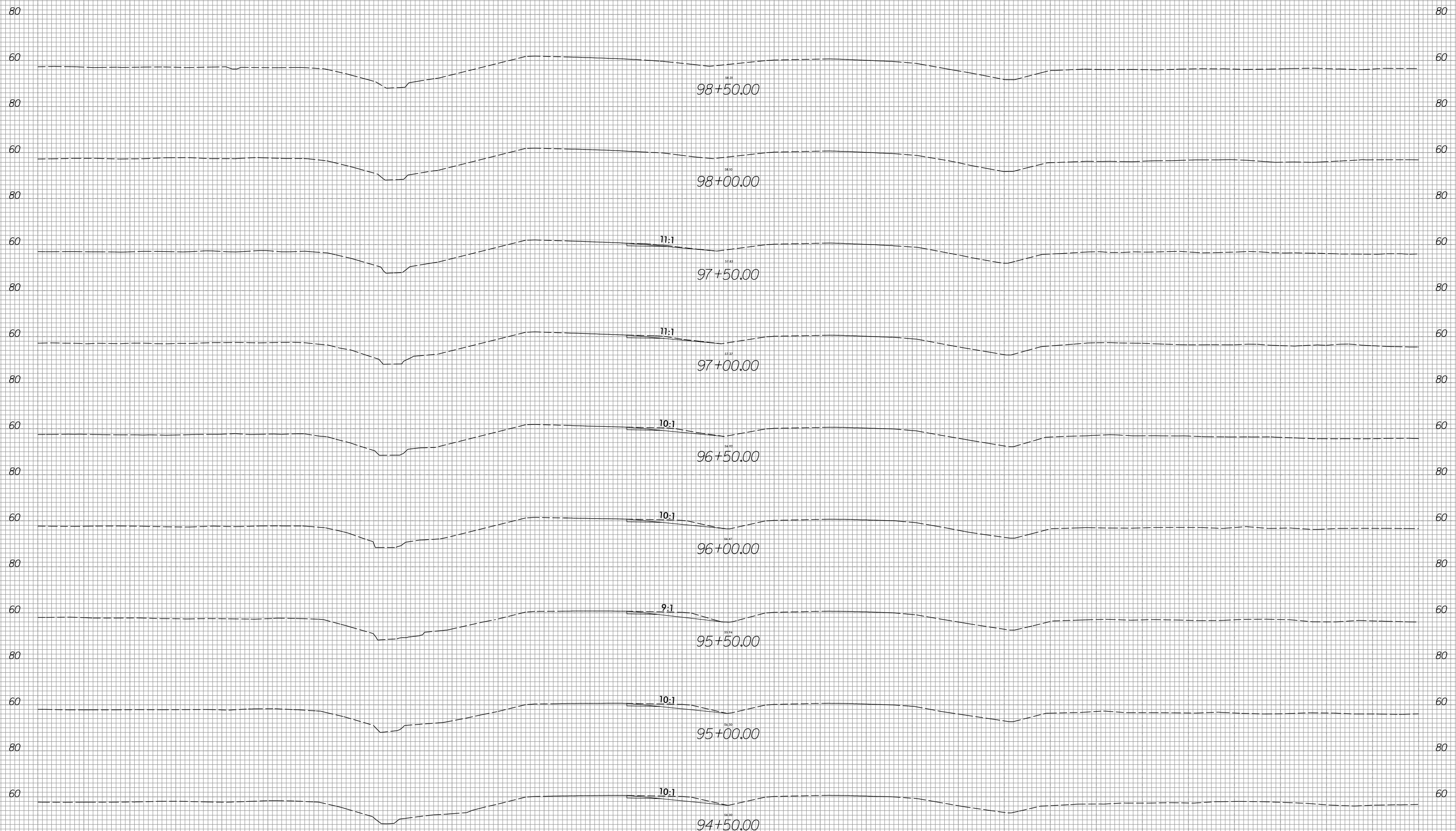
2/15/2022
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 Grant Augsbury

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-118

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

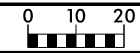


-L- DETOUR

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

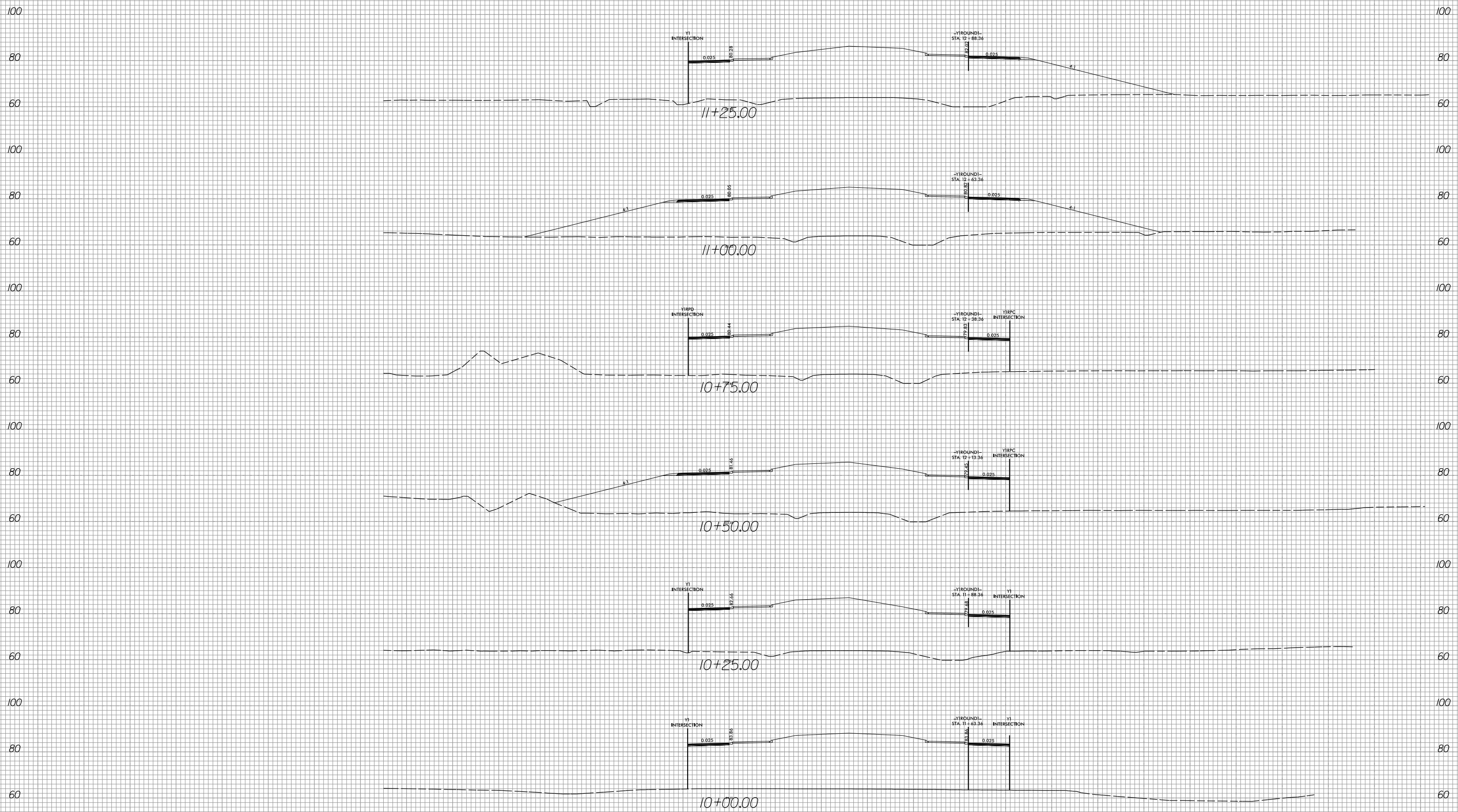
2/15/2022 R:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_L_DET.dgn Grant, Augsburg

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-119

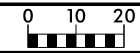
300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



-YIROUNDI-

2/15/2022
R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_YIROUNDI.dgn
Grant.Augsburg

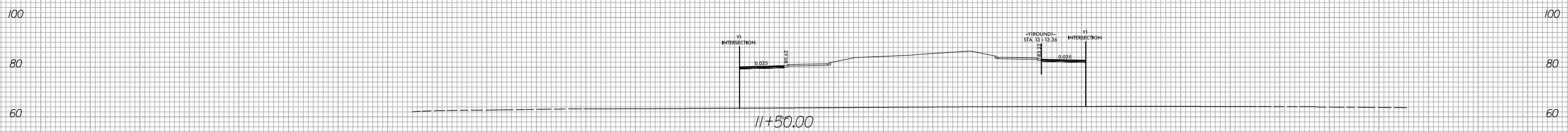
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-120

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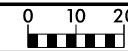


-YIROUNDI-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

2/15/2022
R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_YIROUNDI.dgn
Grant.Augsburg

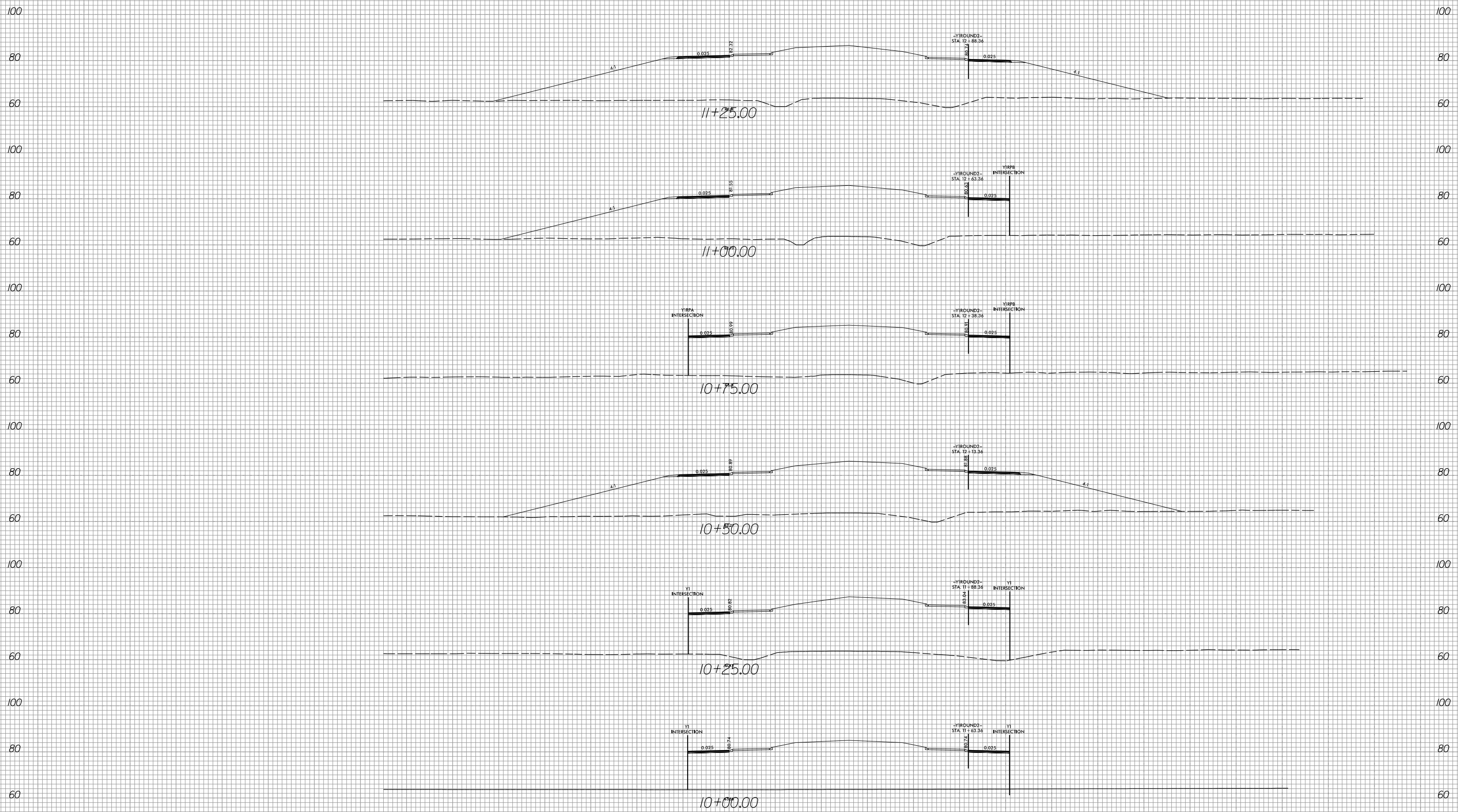
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-121

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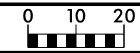


-YIROUND2-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

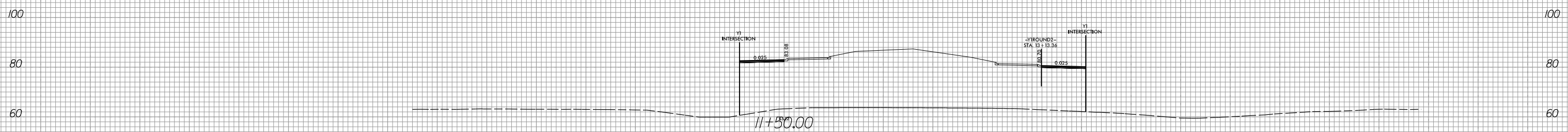
2/15/2022
R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_YIROUND2.dgn
Grant.Augsburg

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-122

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



-YIROUND2-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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 R:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_YIROUND2.dgn
 Grant, Augsburg

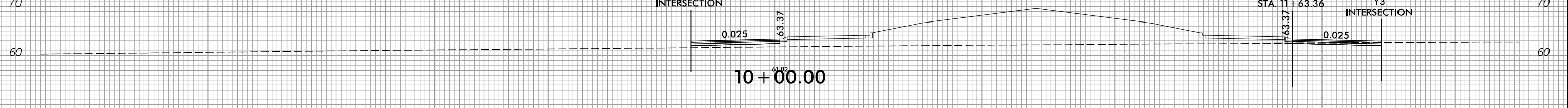
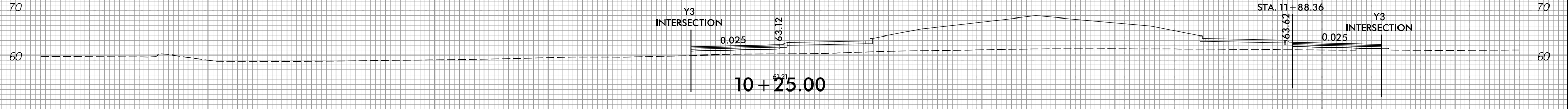
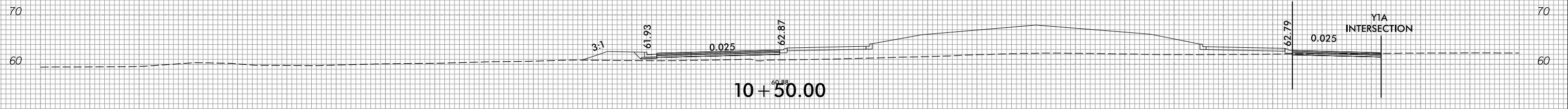
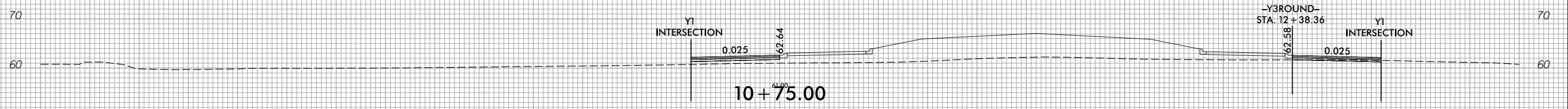
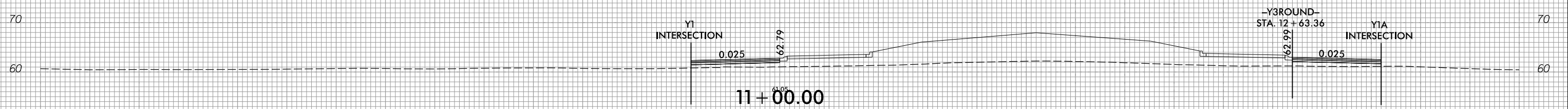
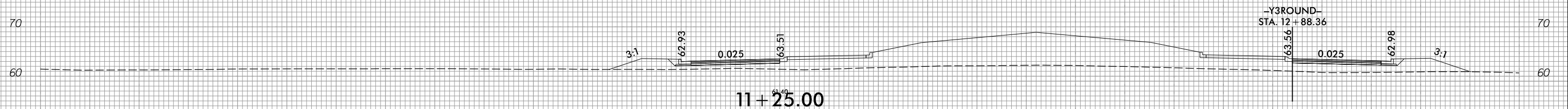
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-123

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y3ROUND-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\Corridor\Mode\Ing\RS819_R5820_RDY_XPL_Y3ROUND.dgn
Grant, Augsburg

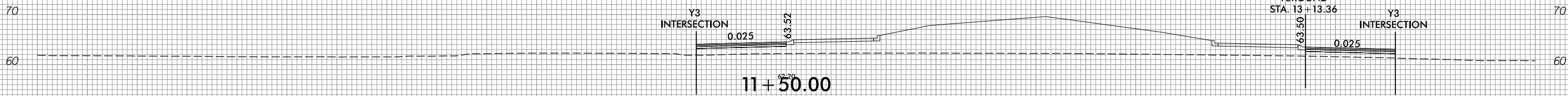
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-124

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



11+50.00

-Y3ROUND-

2/15/2022
 R:\Roadway\Corridor\Mode Ling\RS819_R5820_RDY_XPL_Y3ROUND.dgn
 Grant, Augsburg

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

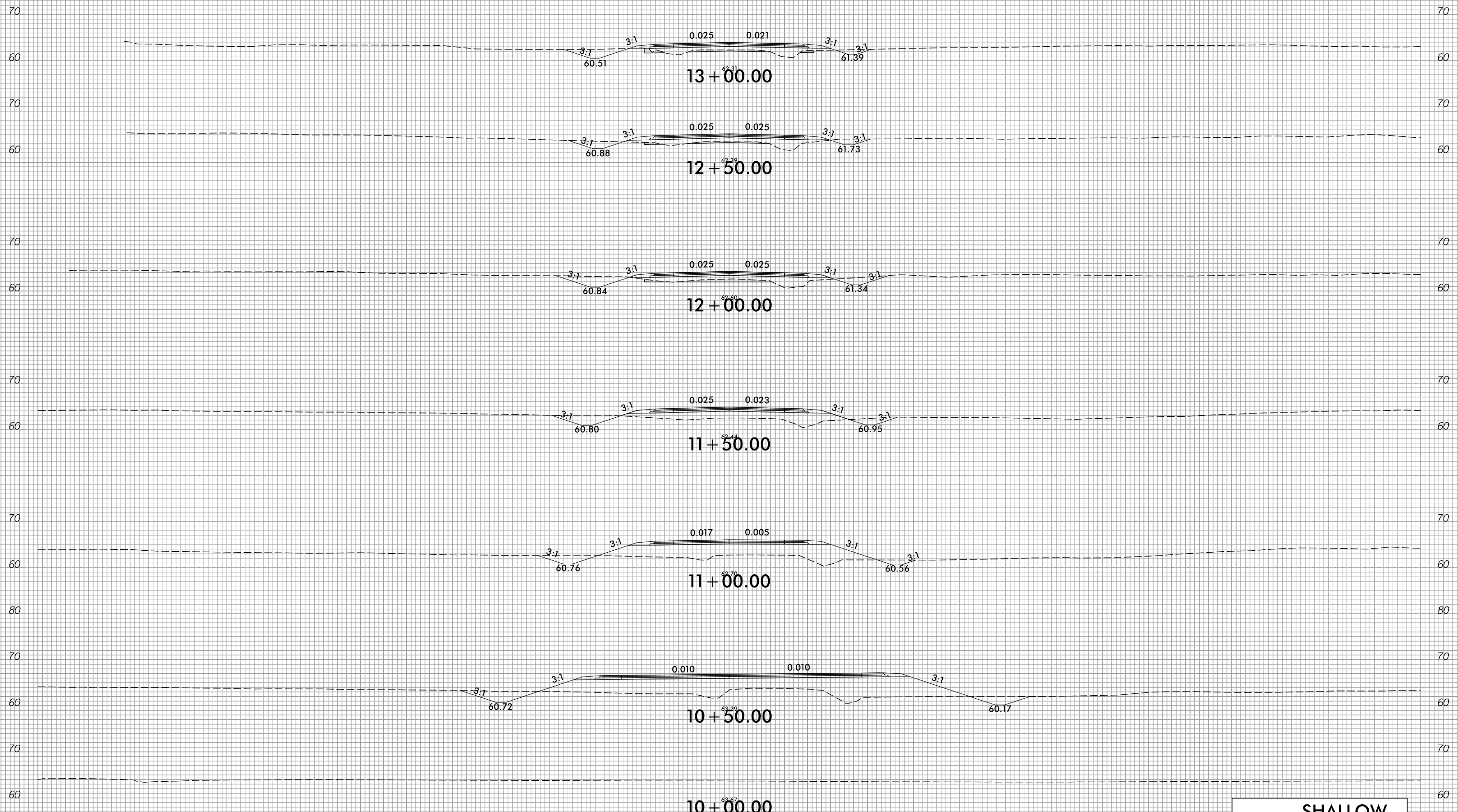
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-125

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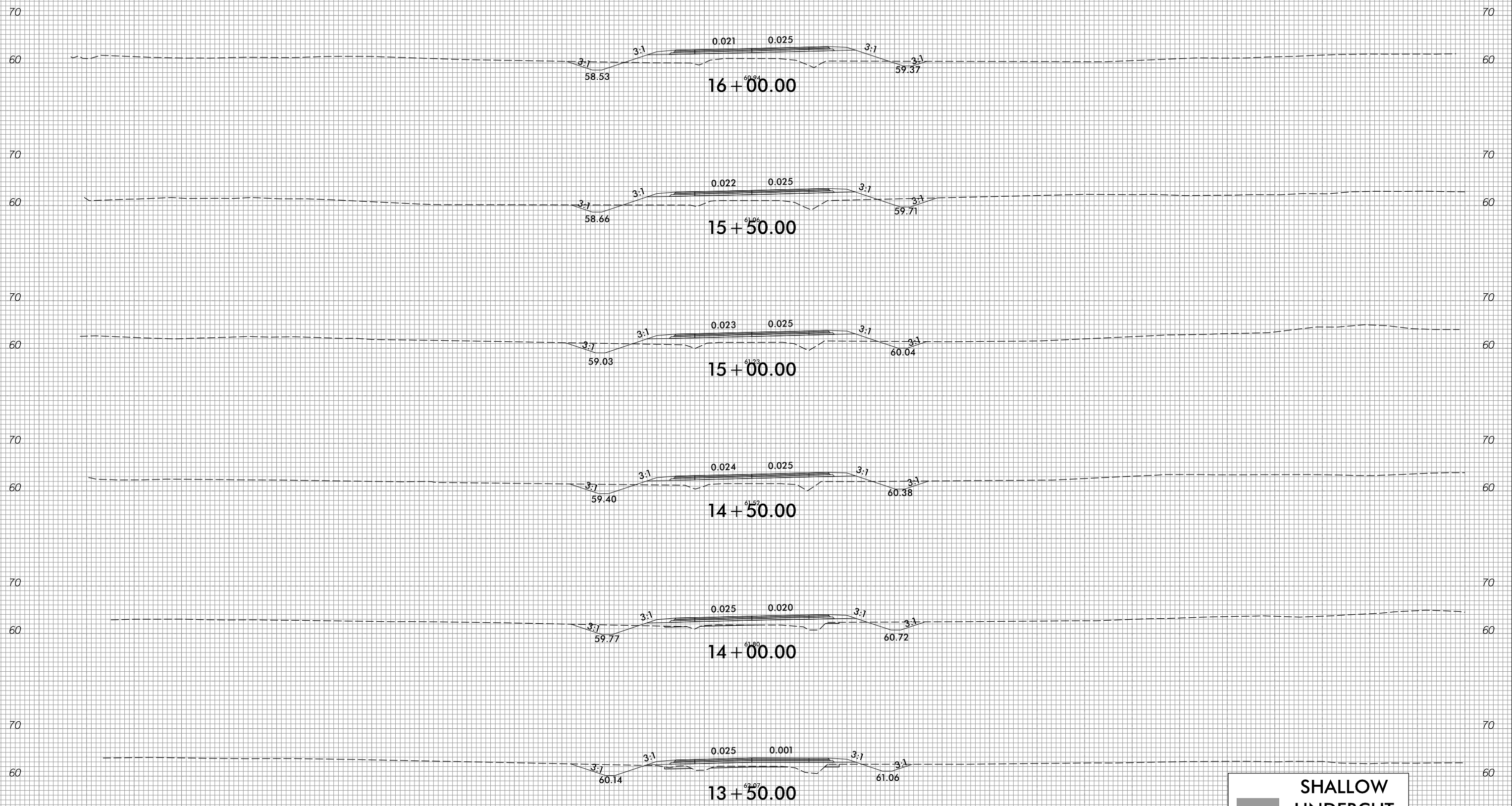
-Y7-

SHALLOW UNDERCUT EXCAVATION

3/4/2022
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Erica.Warburton



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



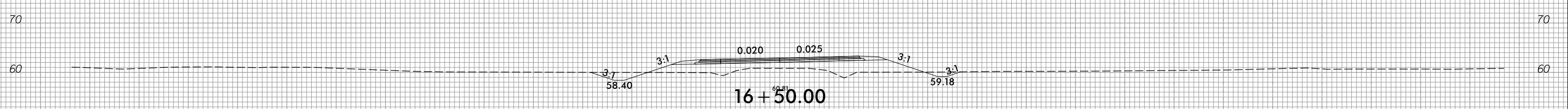
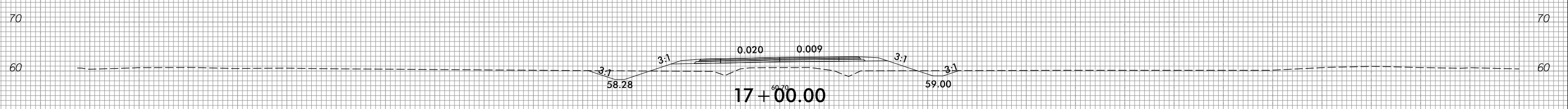
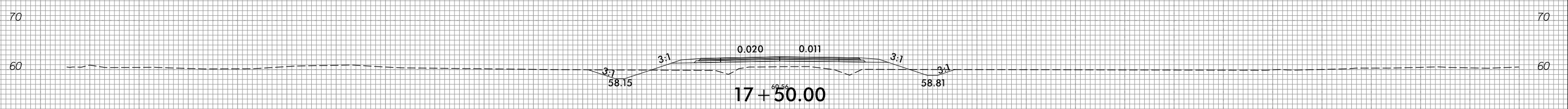
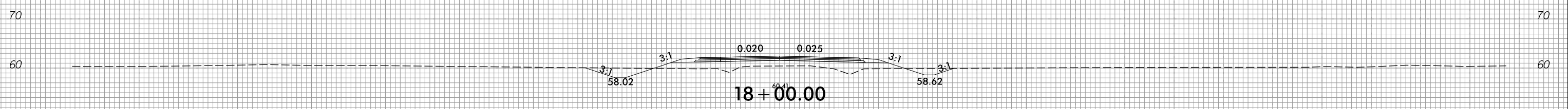
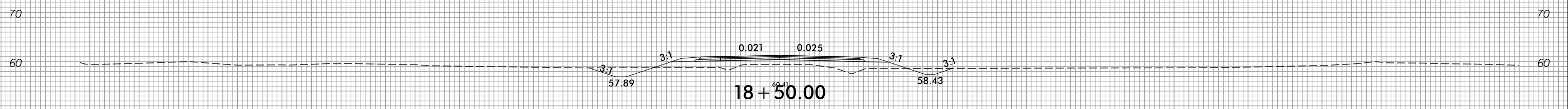
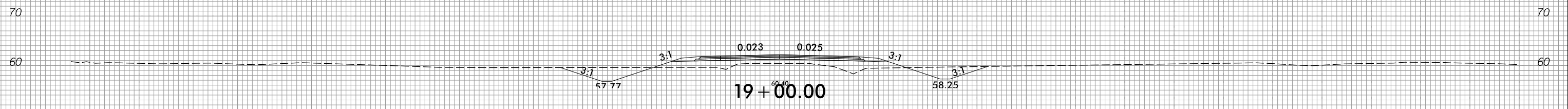
**SHALLOW
UNDERCUT
EXCAVATION**

-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

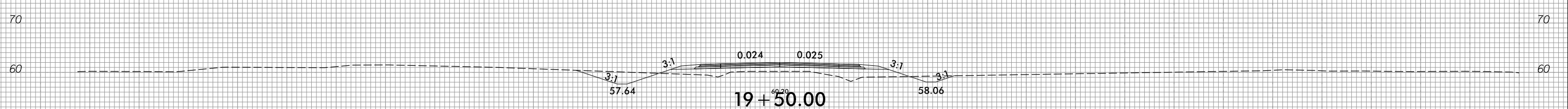
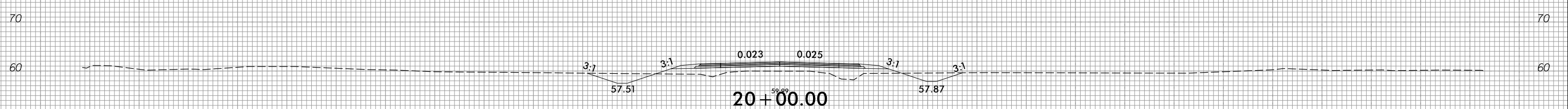
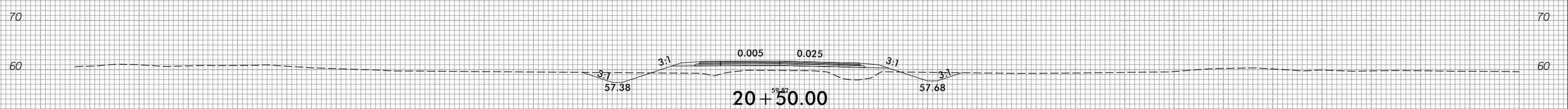
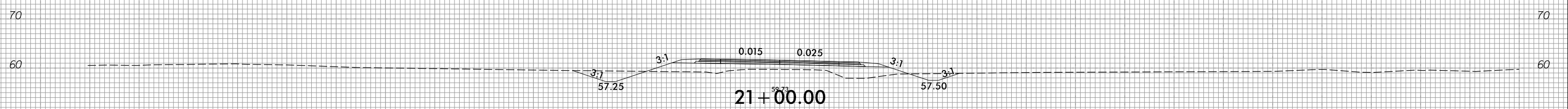
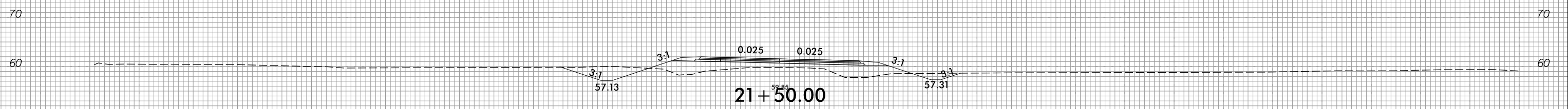
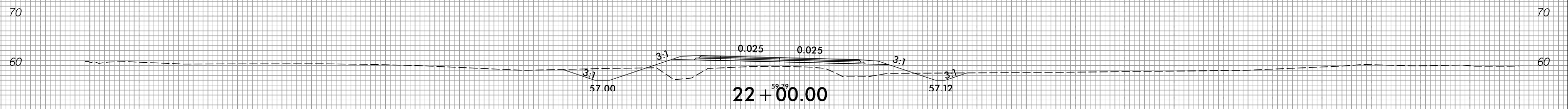


-Y7-

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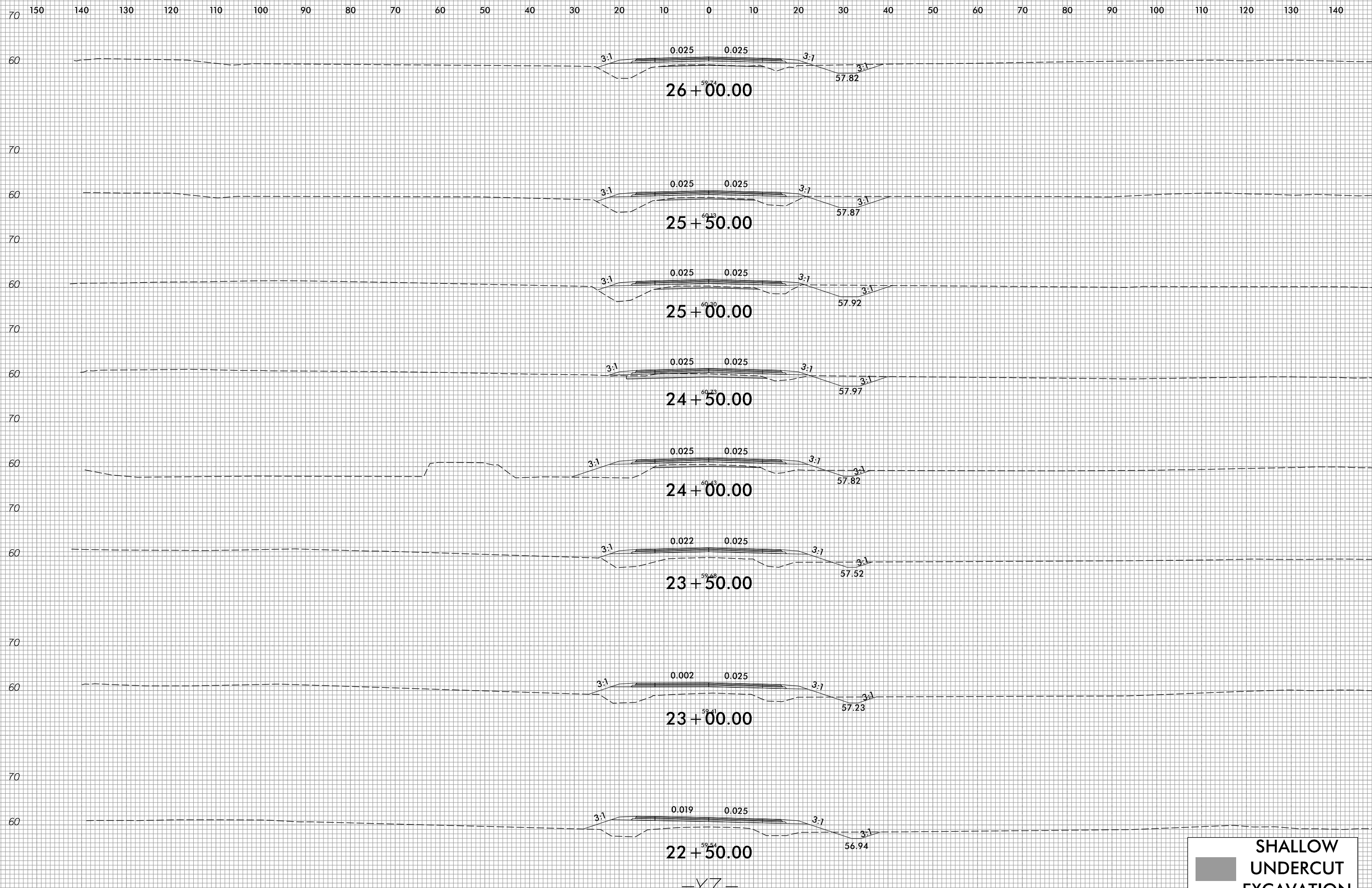


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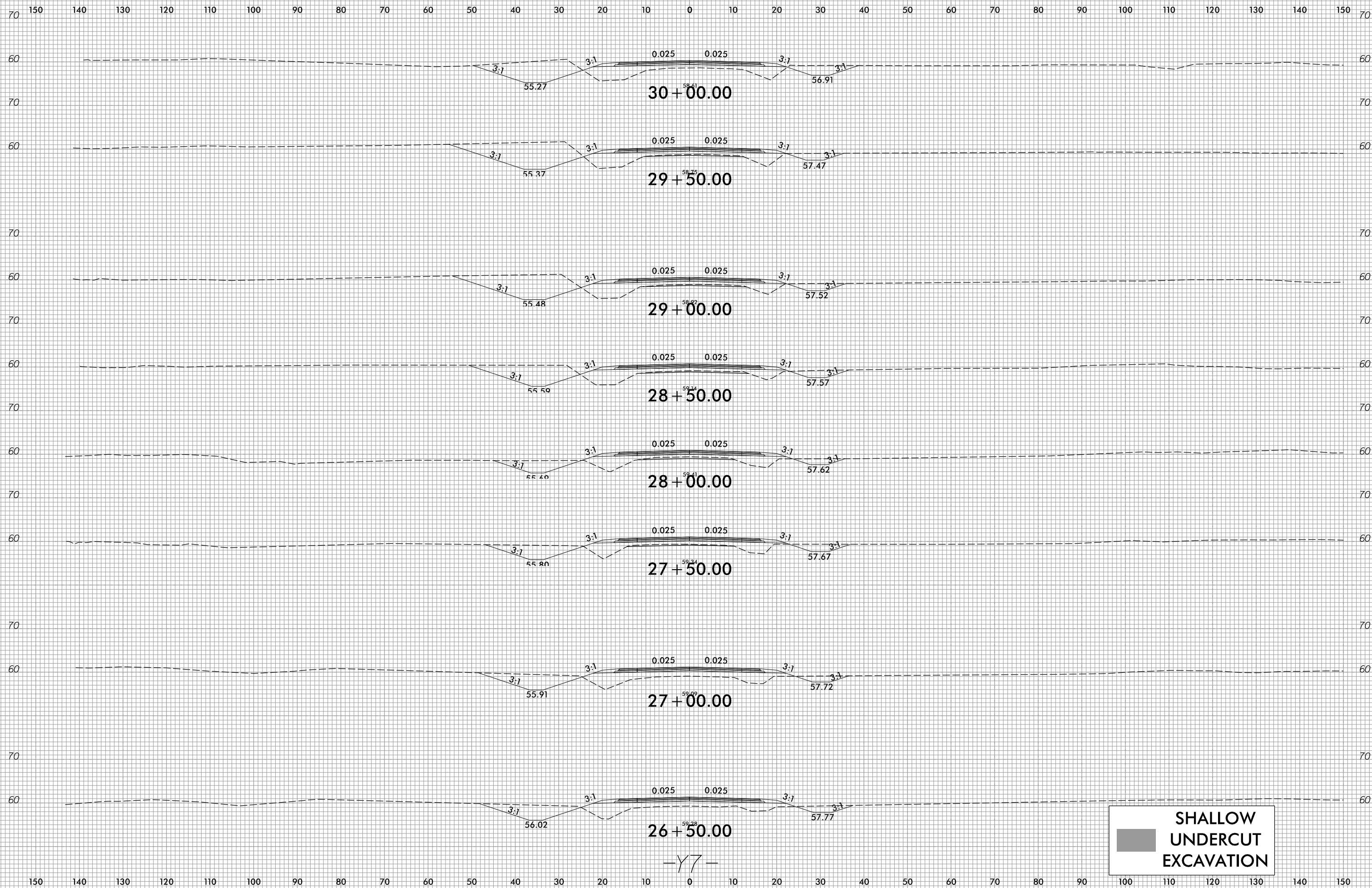
-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



SHALLOW
UNDERCUT
EXCAVATION

-Y7-



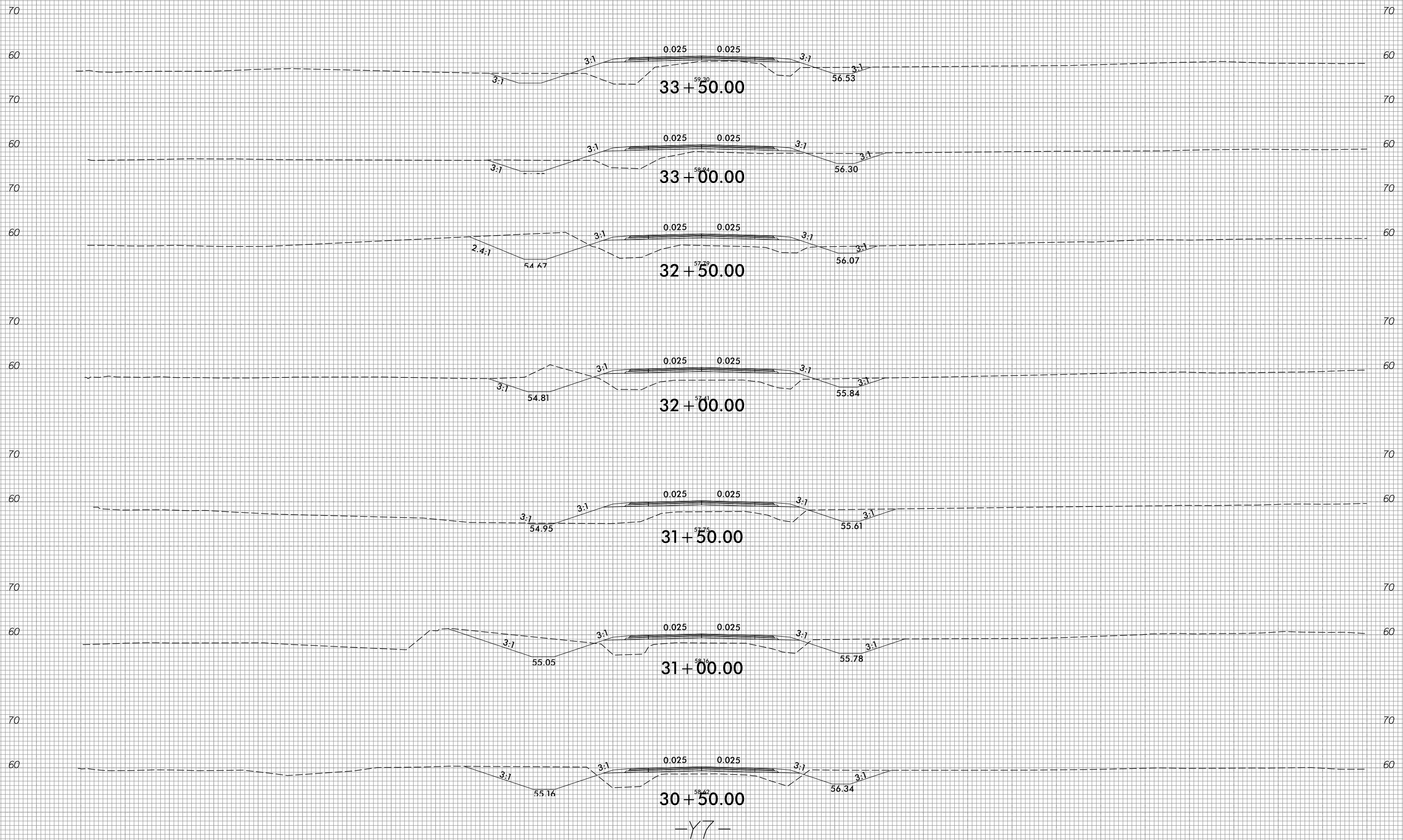
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-131

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y7-

3/4/2022
E:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y7.dgn
Erica.Warburton

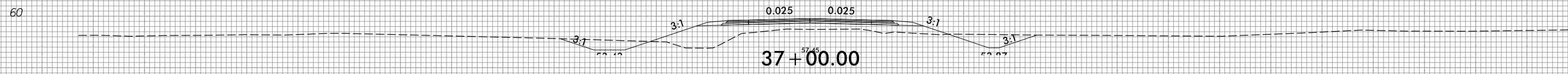
6/23/16



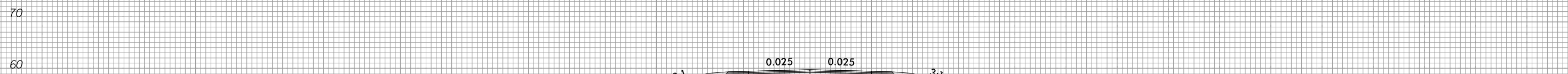
PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-132

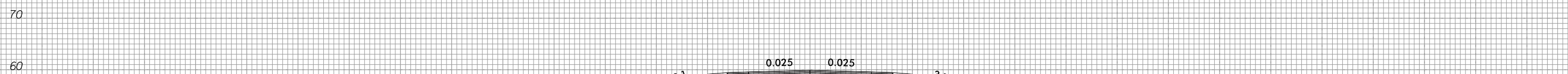
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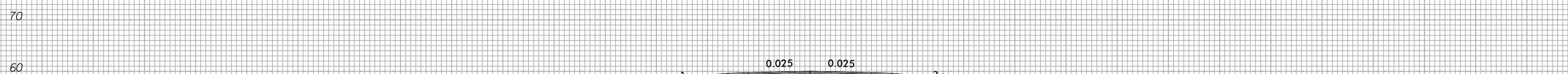
37+00.00



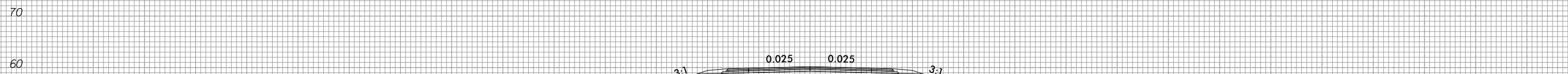
36+50.00



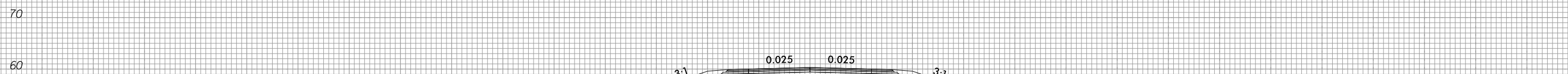
36+00.00



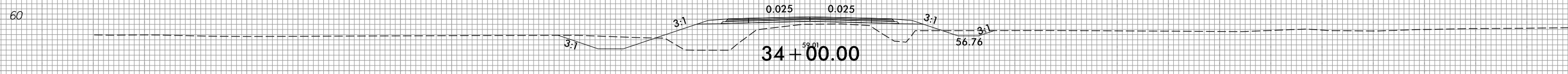
35+50.00



35+00.00



34+50.00



34+00.00

-Y7-

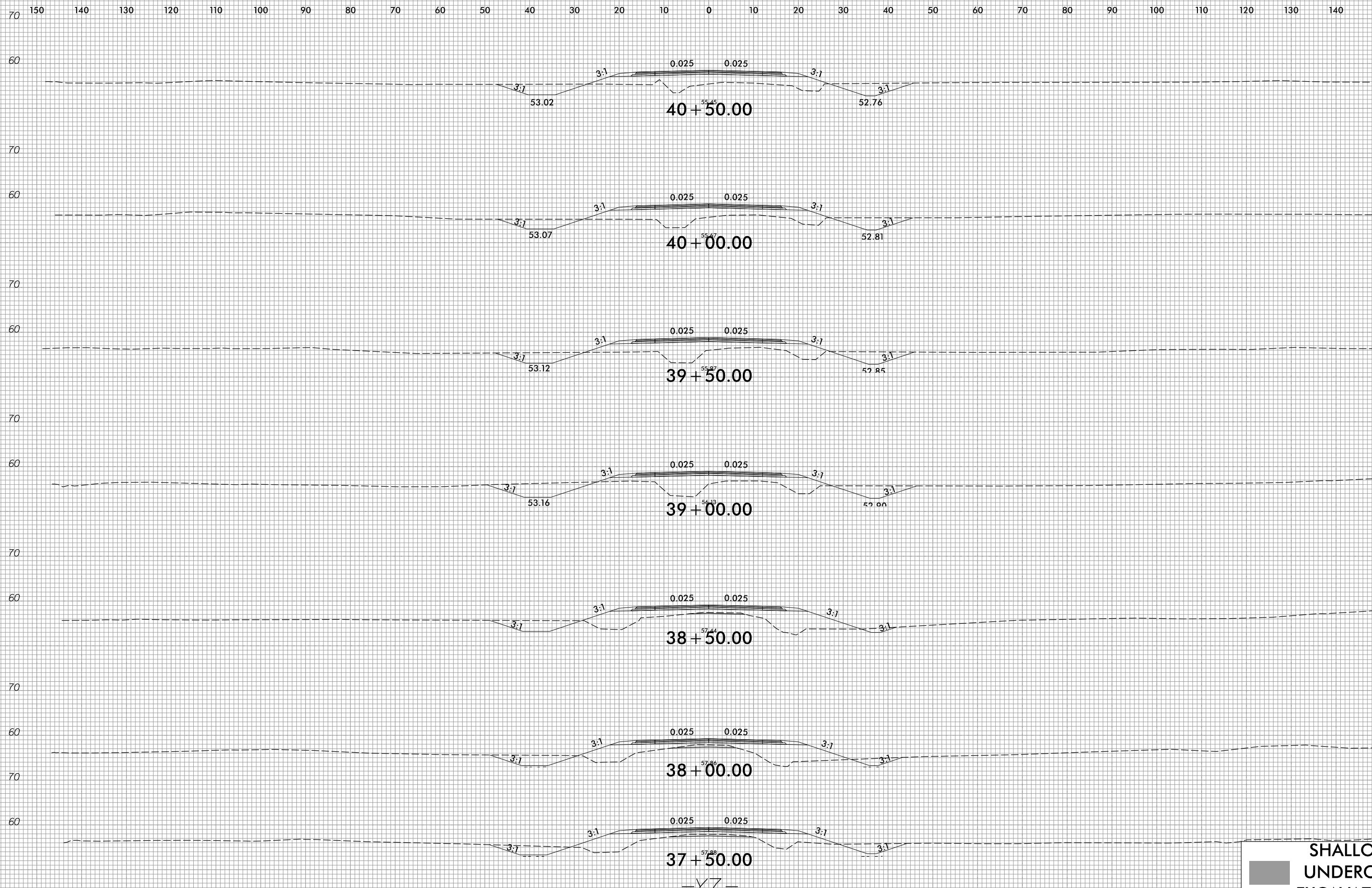
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3/4/2022
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Erica.Warburton

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PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-133



3/4/2022
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 Eric.Warburton

**SHALLOW
 UNDERCUT
 EXCAVATION**

-Y7-

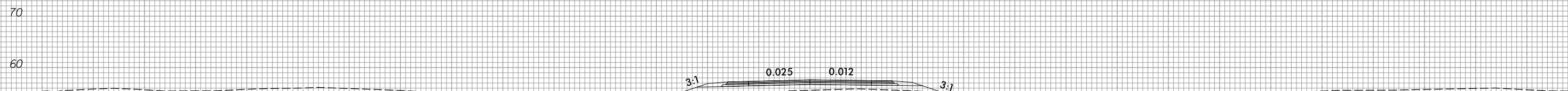
6/23/16



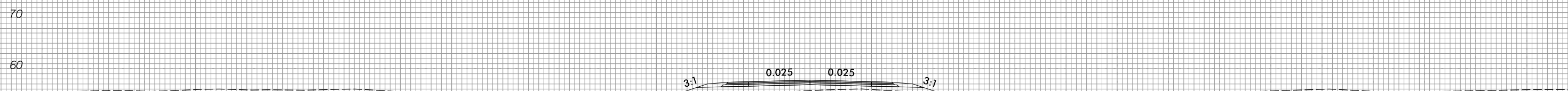
PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-134

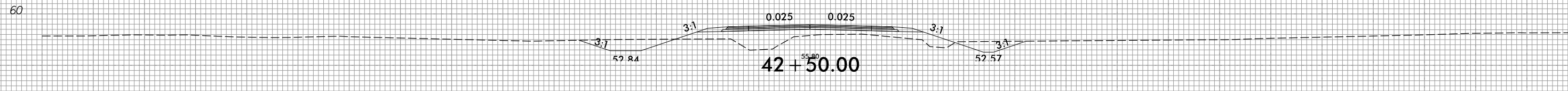
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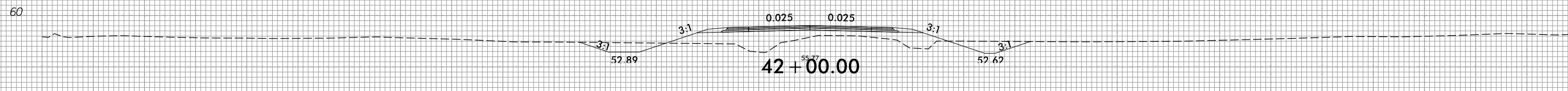
43+50.00



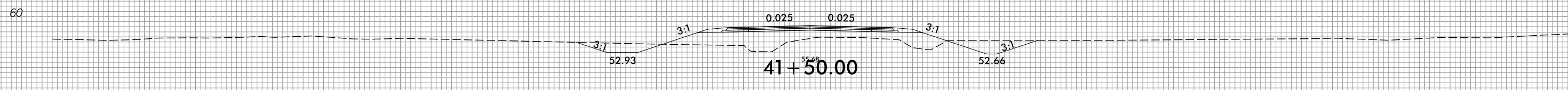
43+00.00



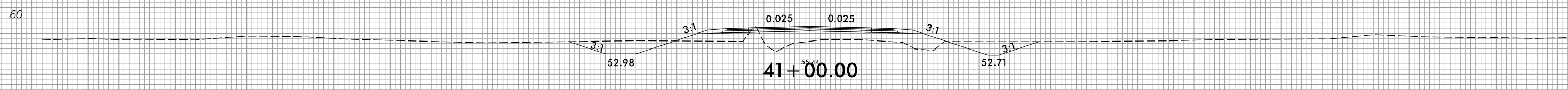
42+50.00



42+00.00



41+50.00



41+00.00

-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

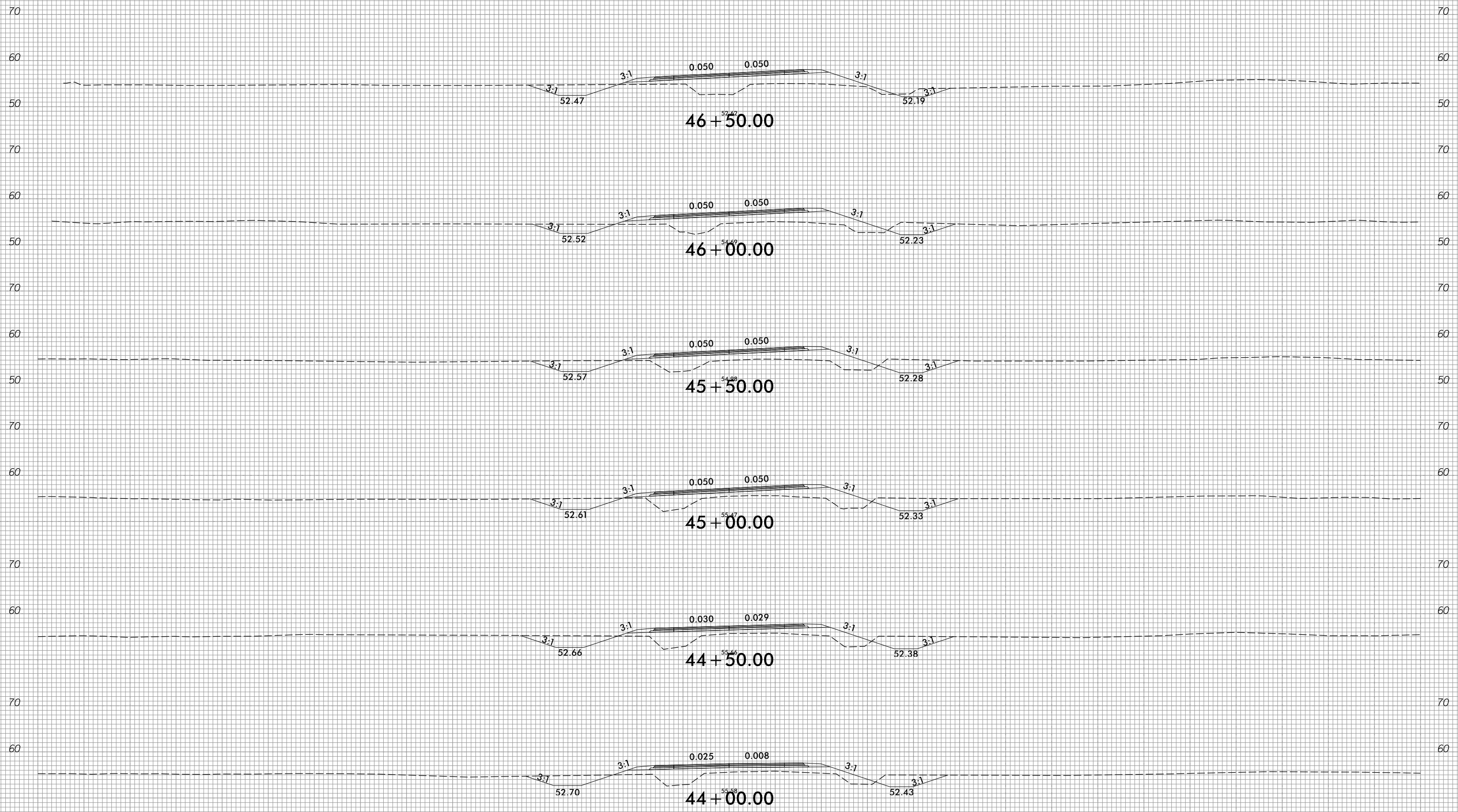
3/4/2022
E:\Roadway\CorridorModeling\R5819_R5820_RDY_XPL_Y7.dgn
Erica.Warburton

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-135

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

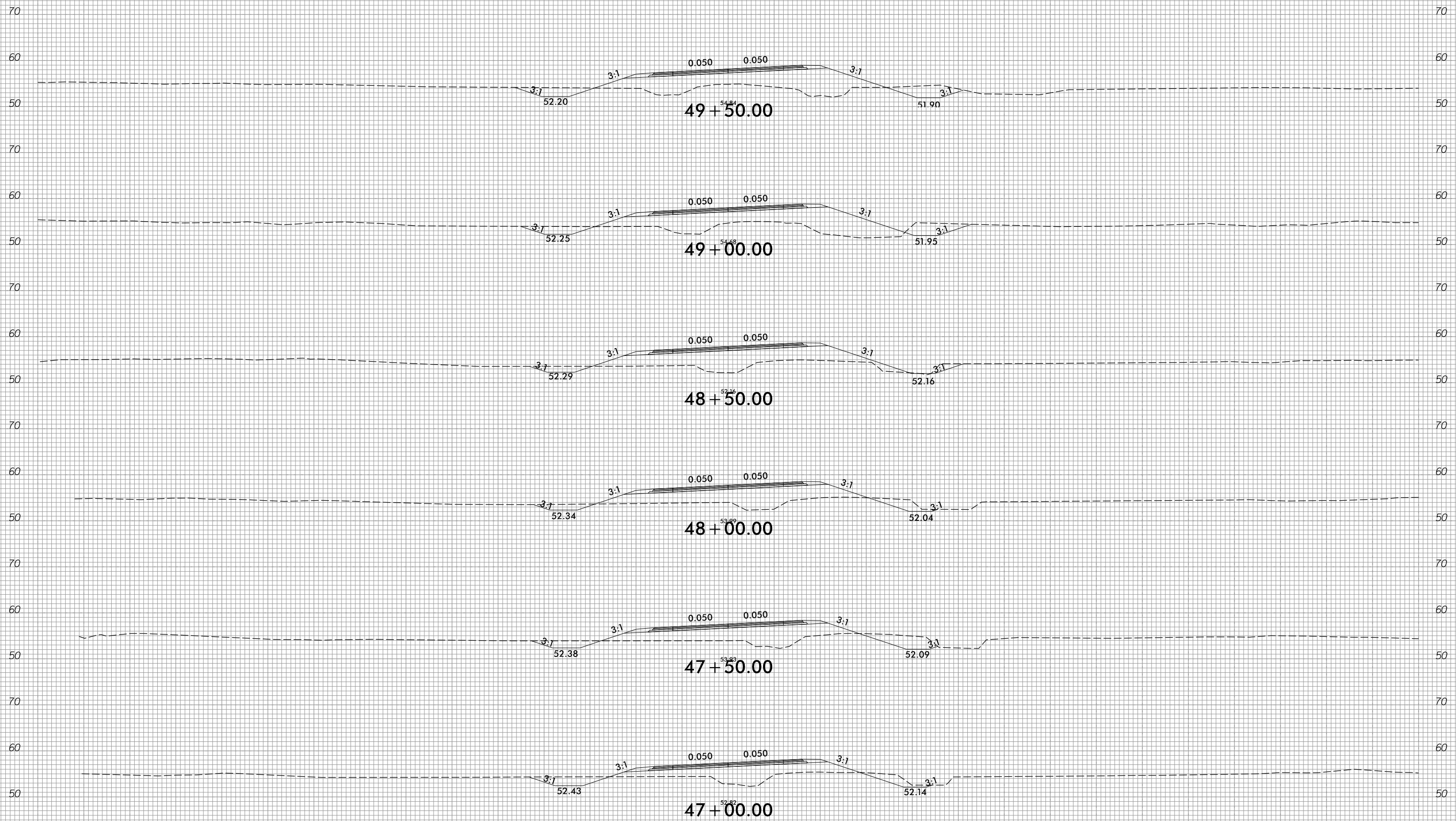


-Y7-

3/4/2022
 E:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_Y7.dgn
 Eric.Ryan



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y7-

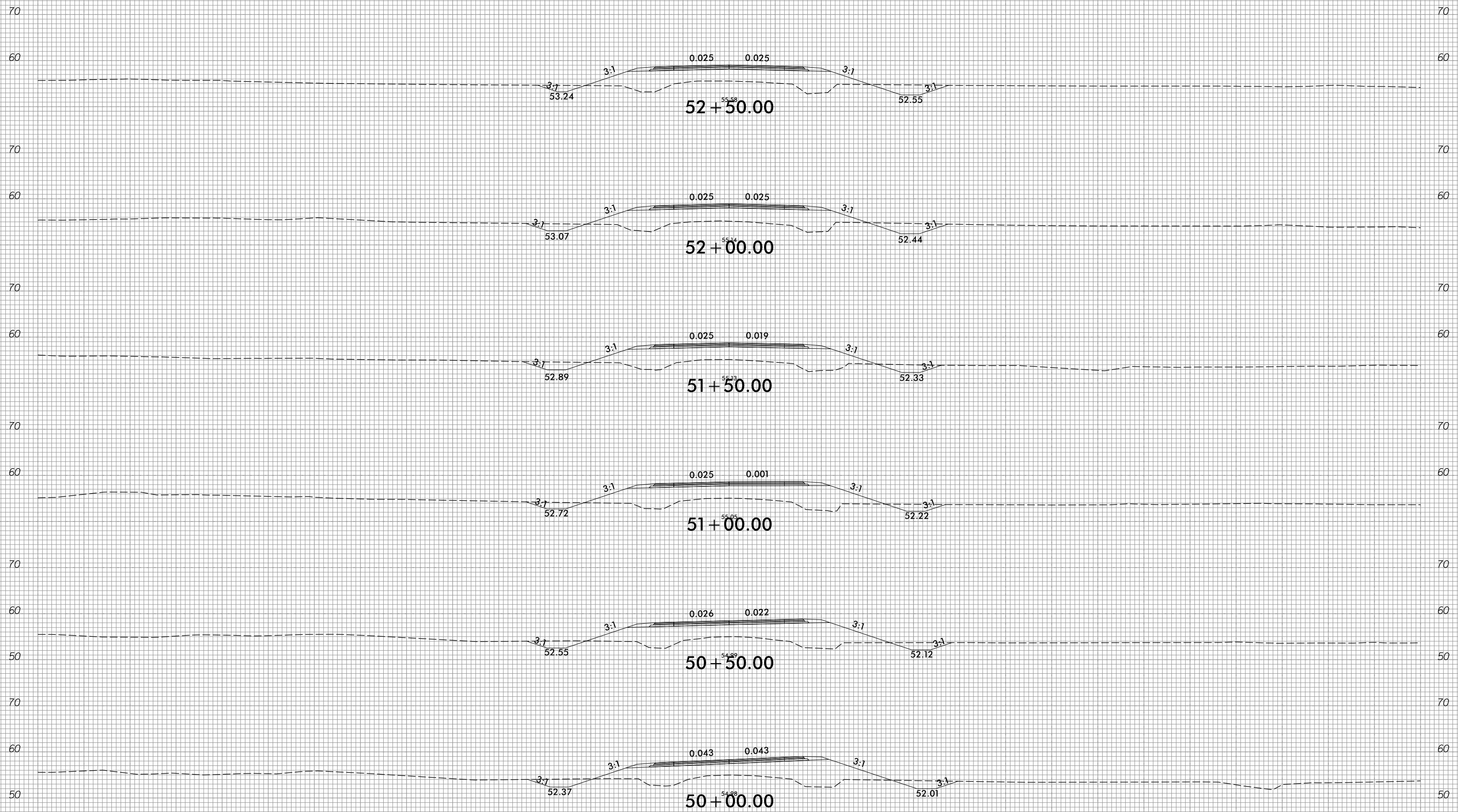
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5819 / R-5820	X-137

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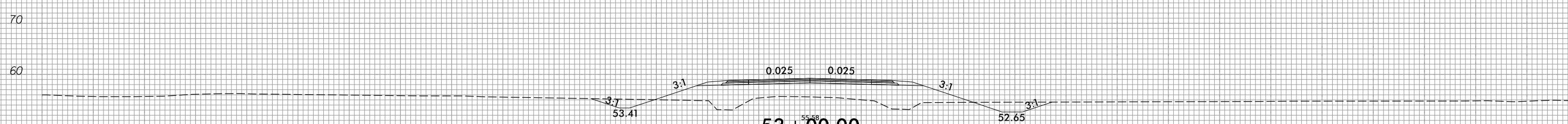
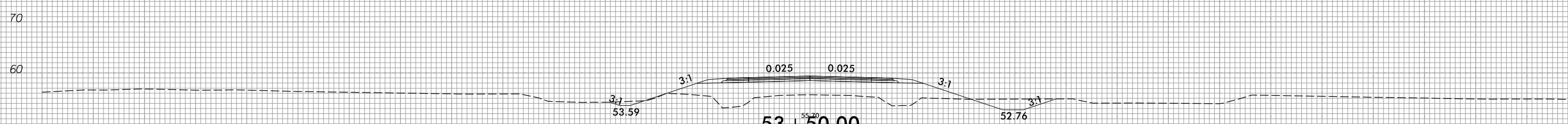
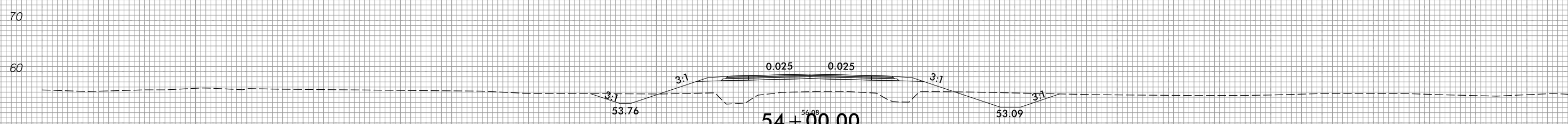
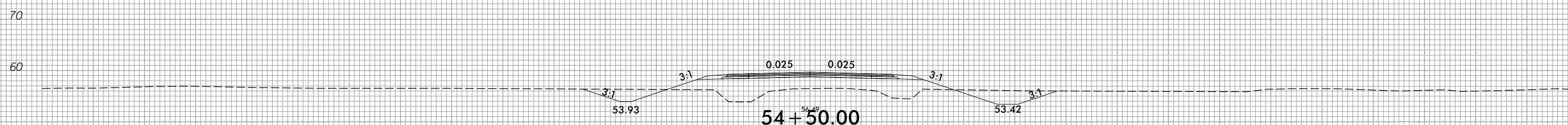
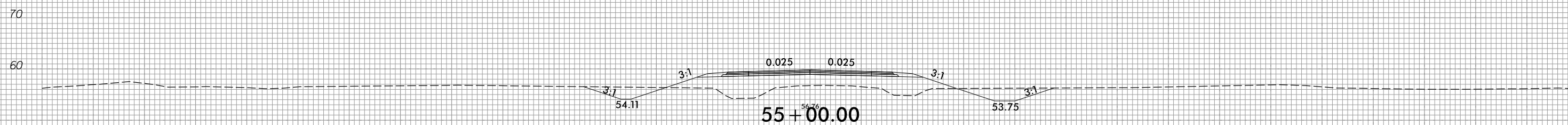
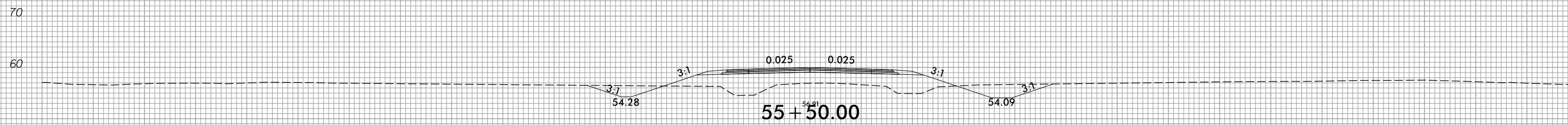


-Y7-

3/4/2022
 E:\Roadway\Corridor\Mode\Ing\R5819_R5820_RDY_XPL_Y7.dgn
 Eric.Warburton



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

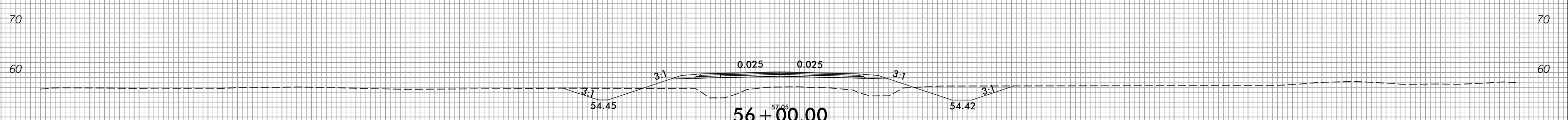
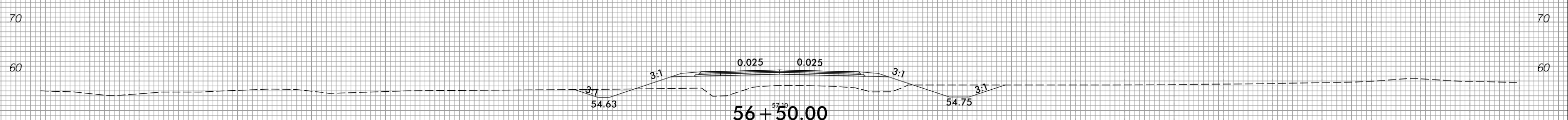
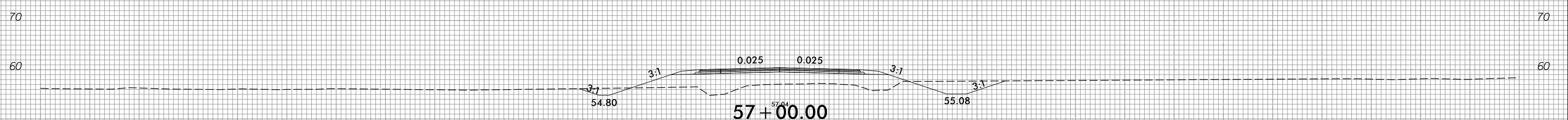
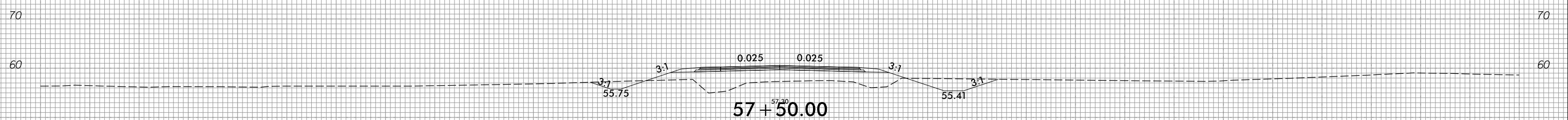
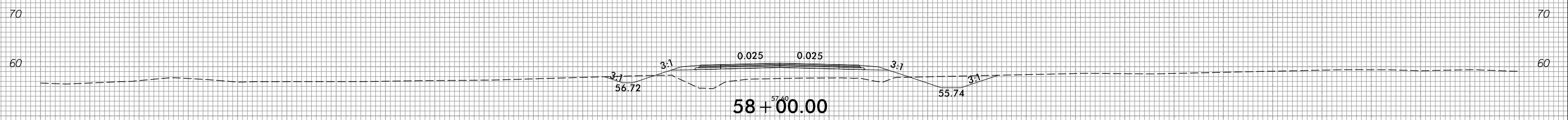
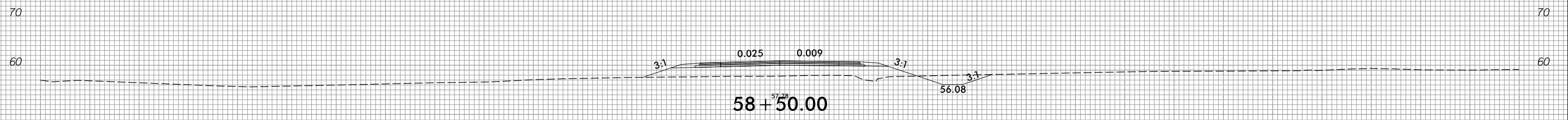


-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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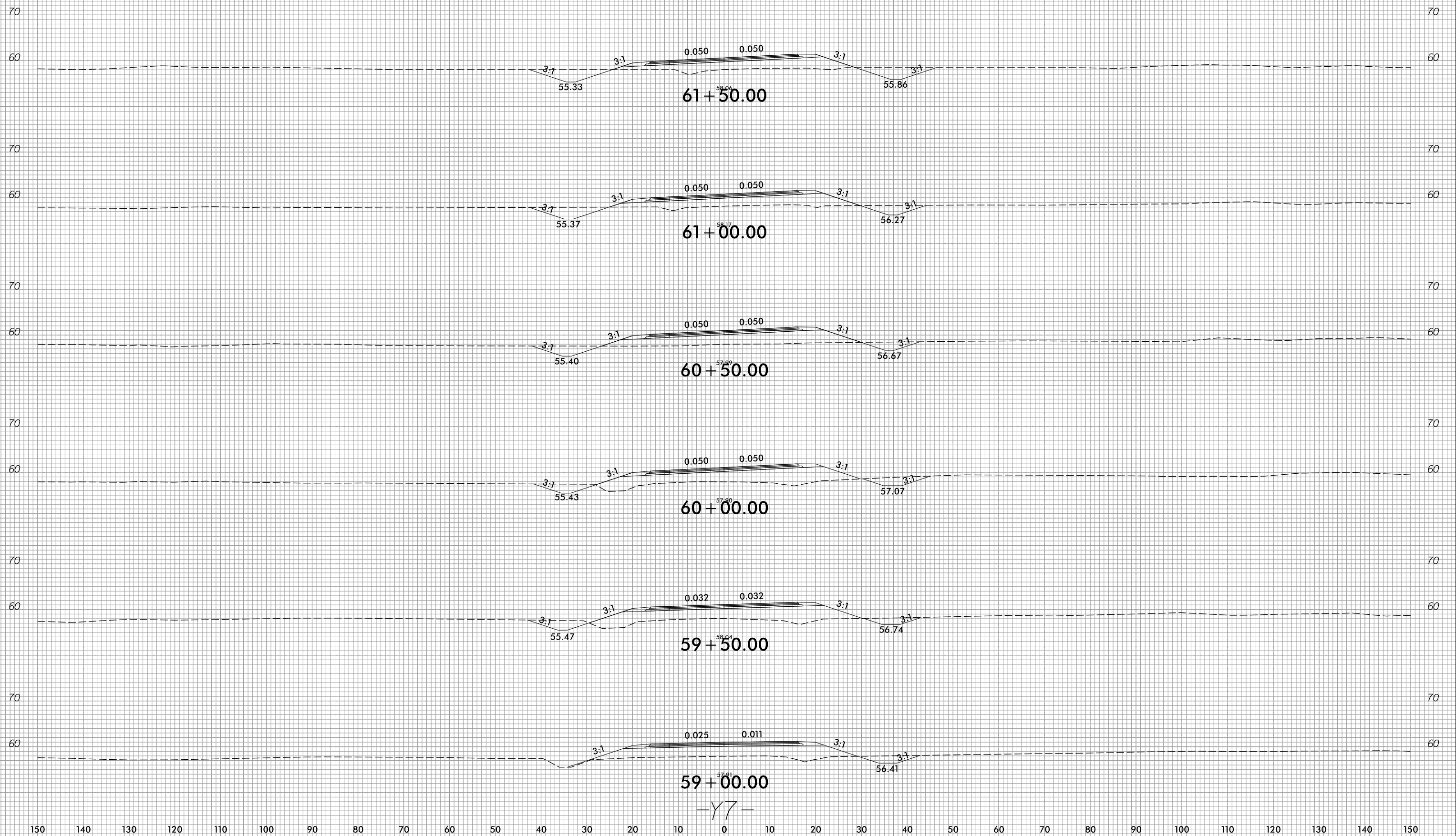


-Y7-

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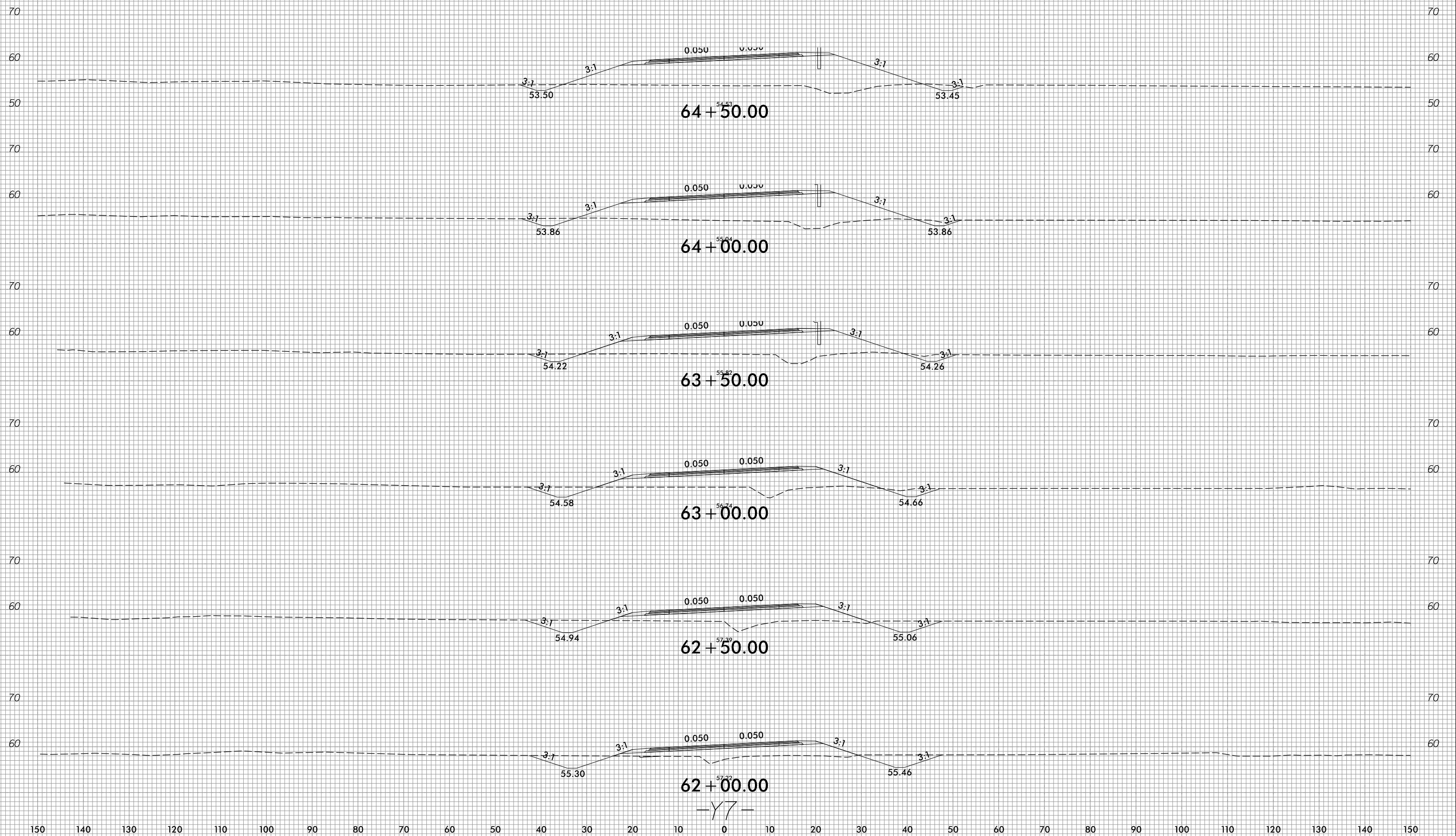
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y7-



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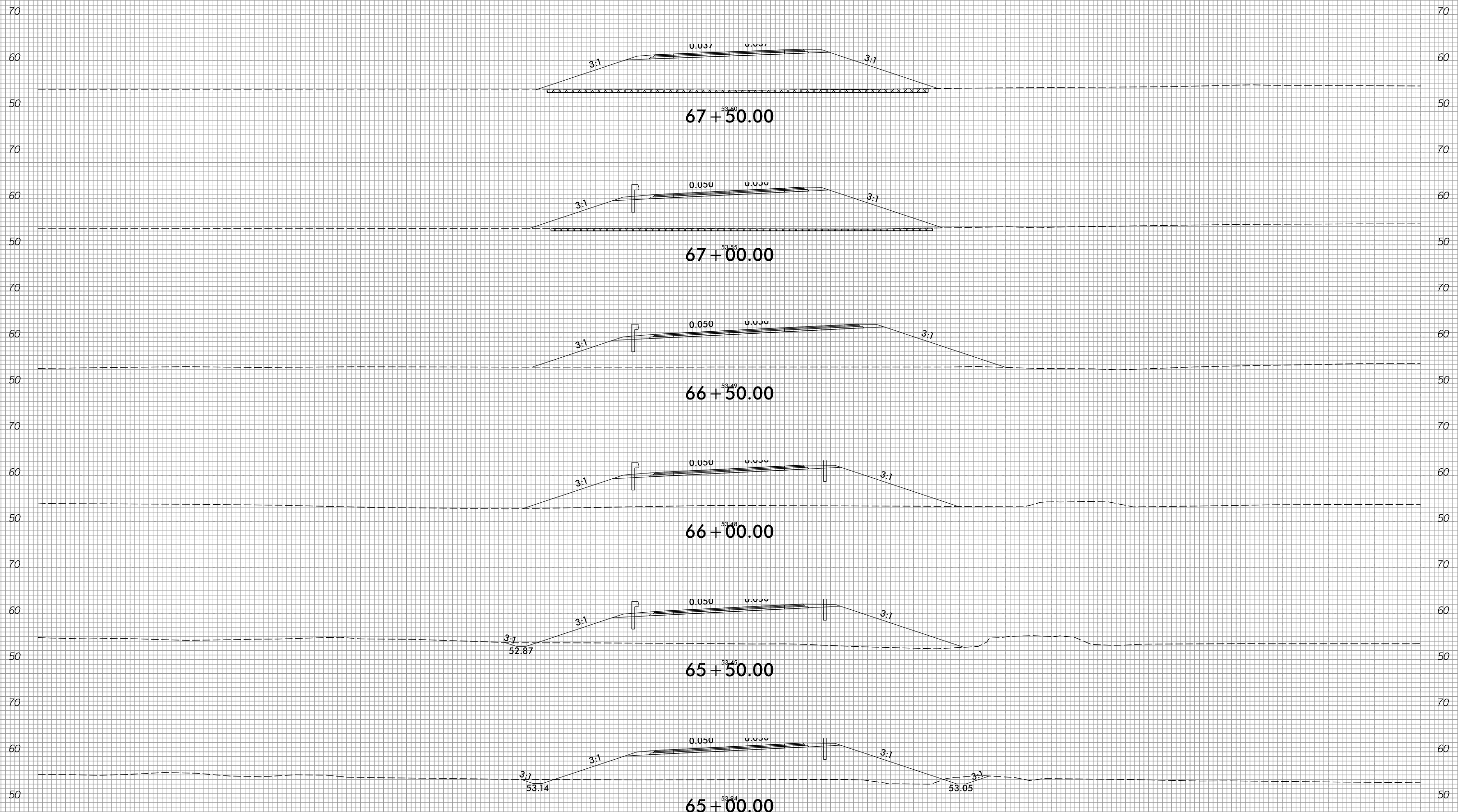


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

-Y7-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



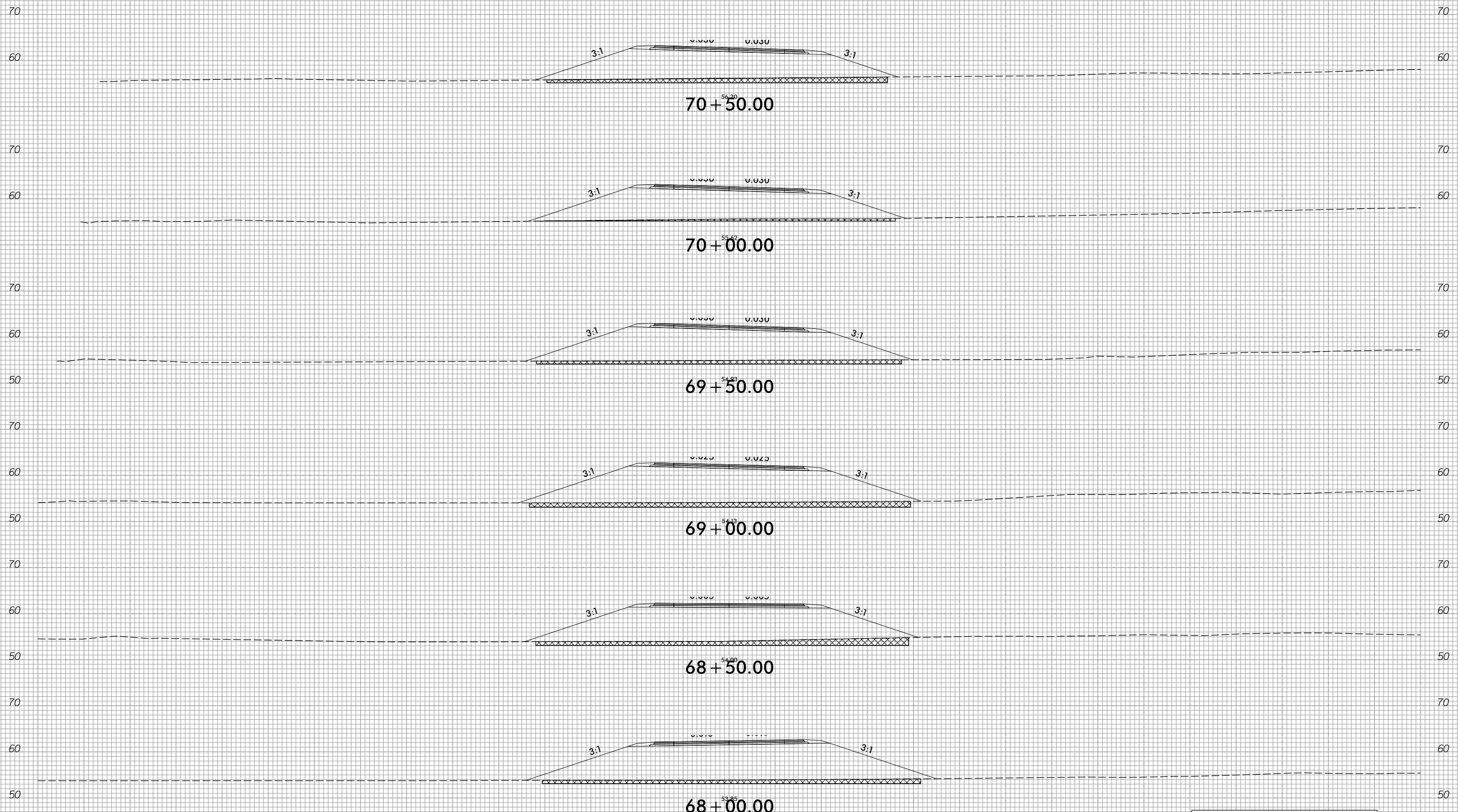
UNDERCUT EXCAVATION

-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



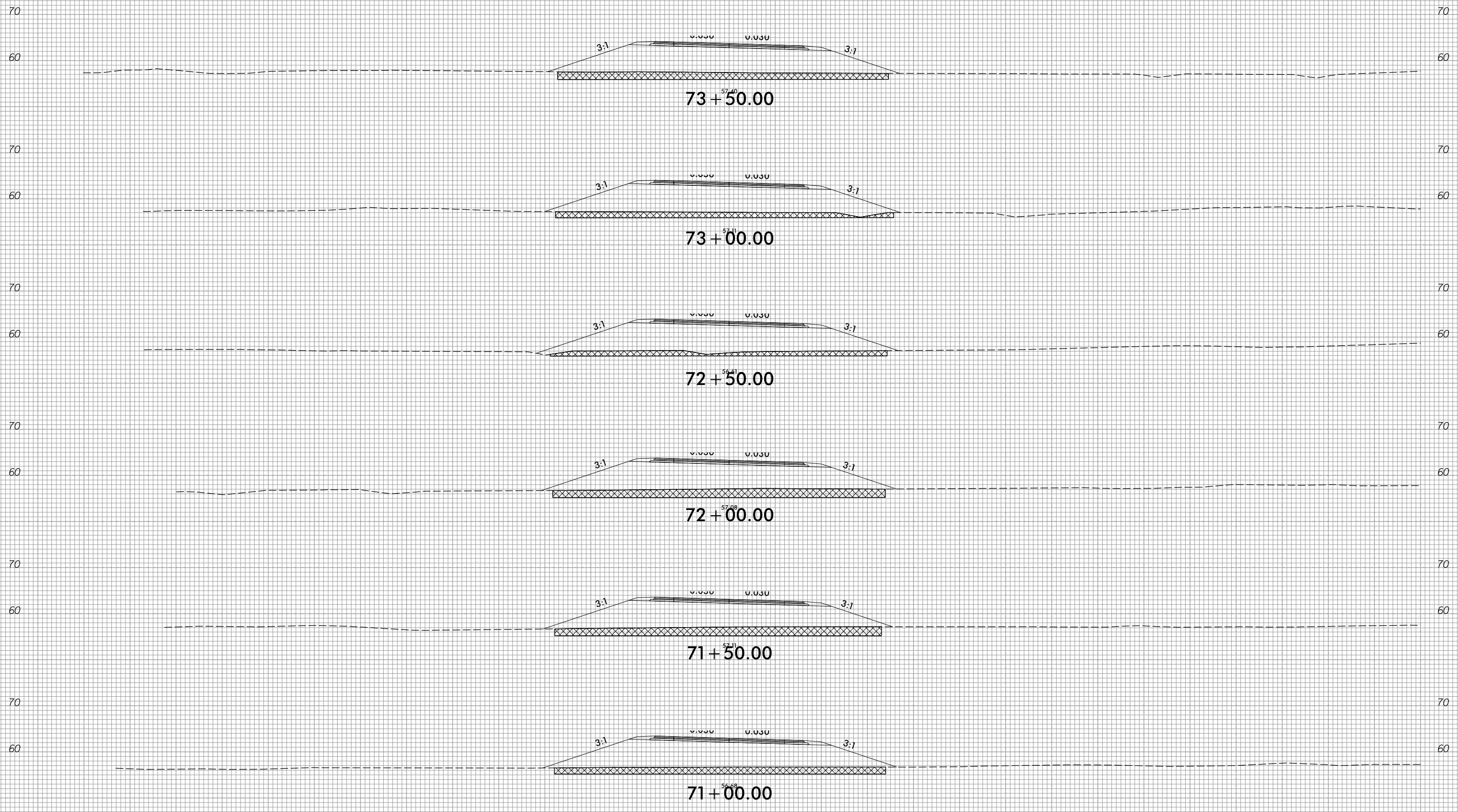
 UNDERCUT EXCAVATION

-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



UNDERCUT EXCAVATION

-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

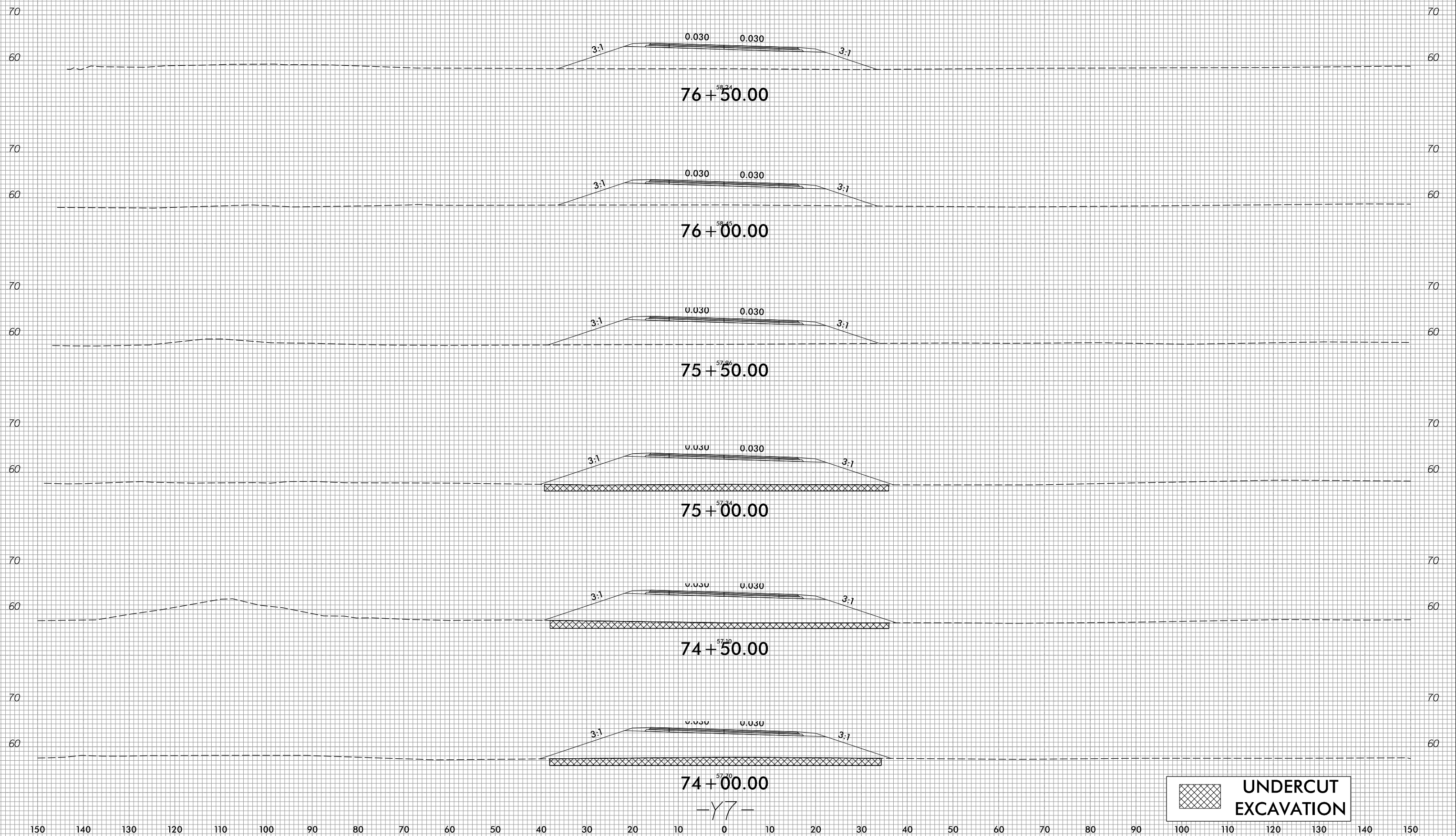
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-145

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



UNDERCUT EXCAVATION

-Y7-

3/4/2022
E:\Roadway\Corridor-Modeling\R5819_R5820_RDY_XPL_Y7.dgn
Erica.Warburton

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

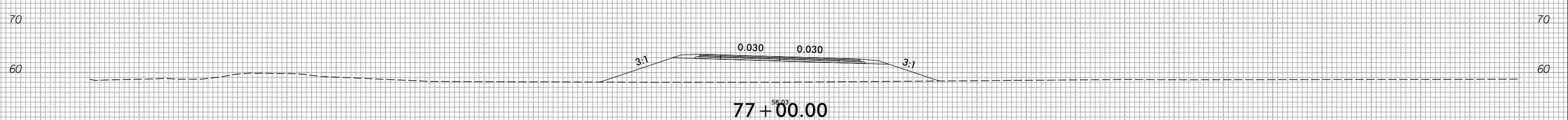
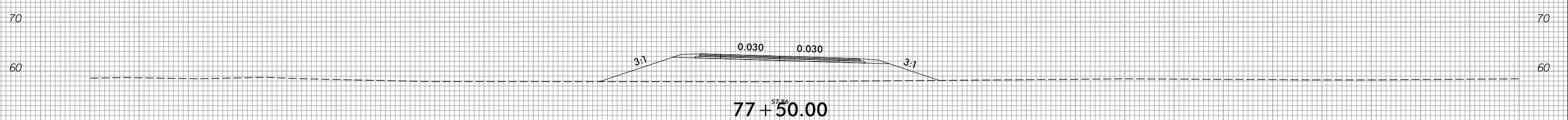
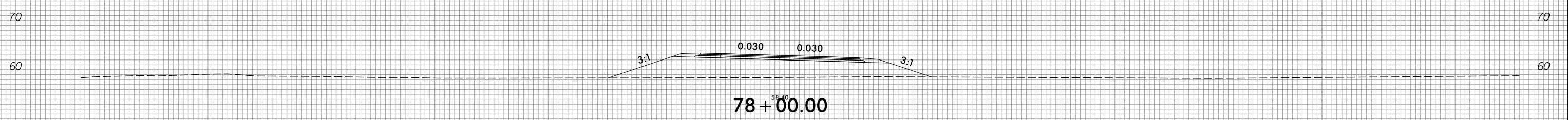
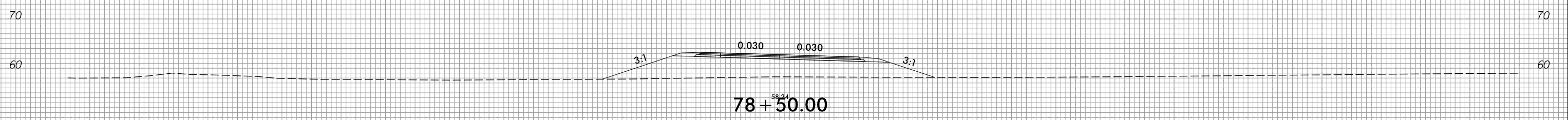
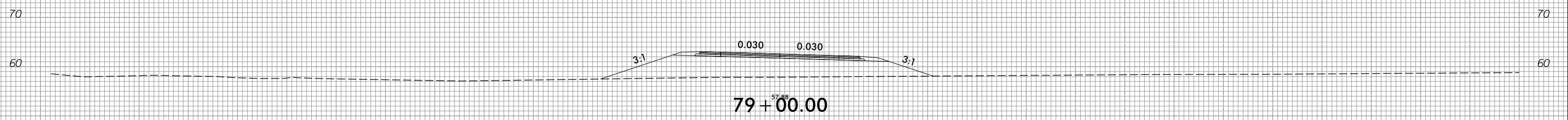
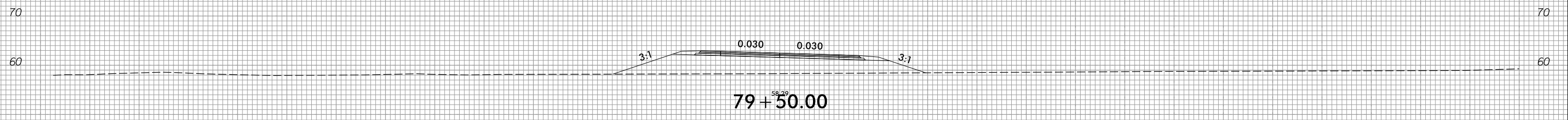
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-146

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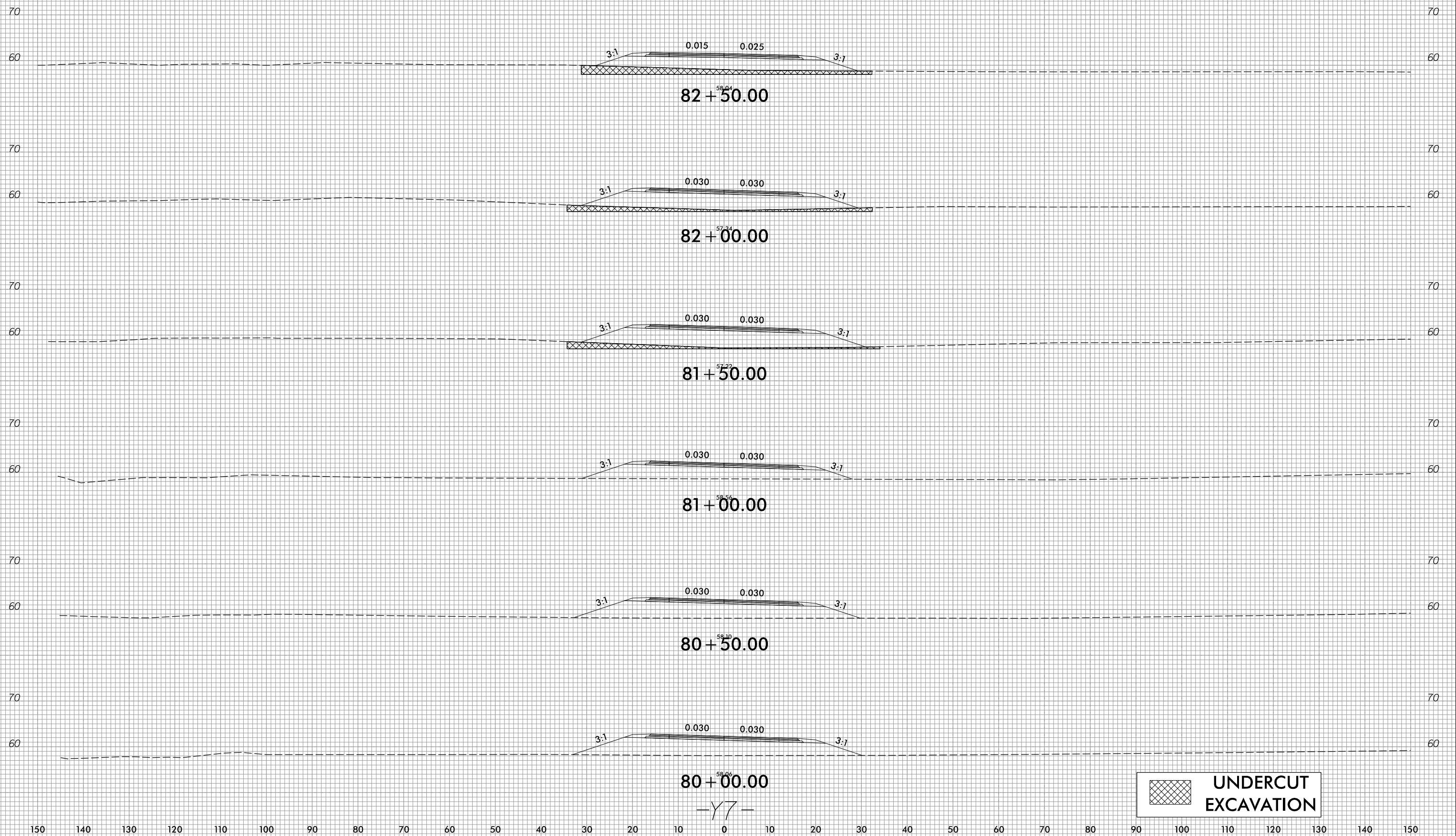


-Y7-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

3/4/2022
E:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_Y7.dgn
Erica.Warburton

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



 UNDERCUT EXCAVATION

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

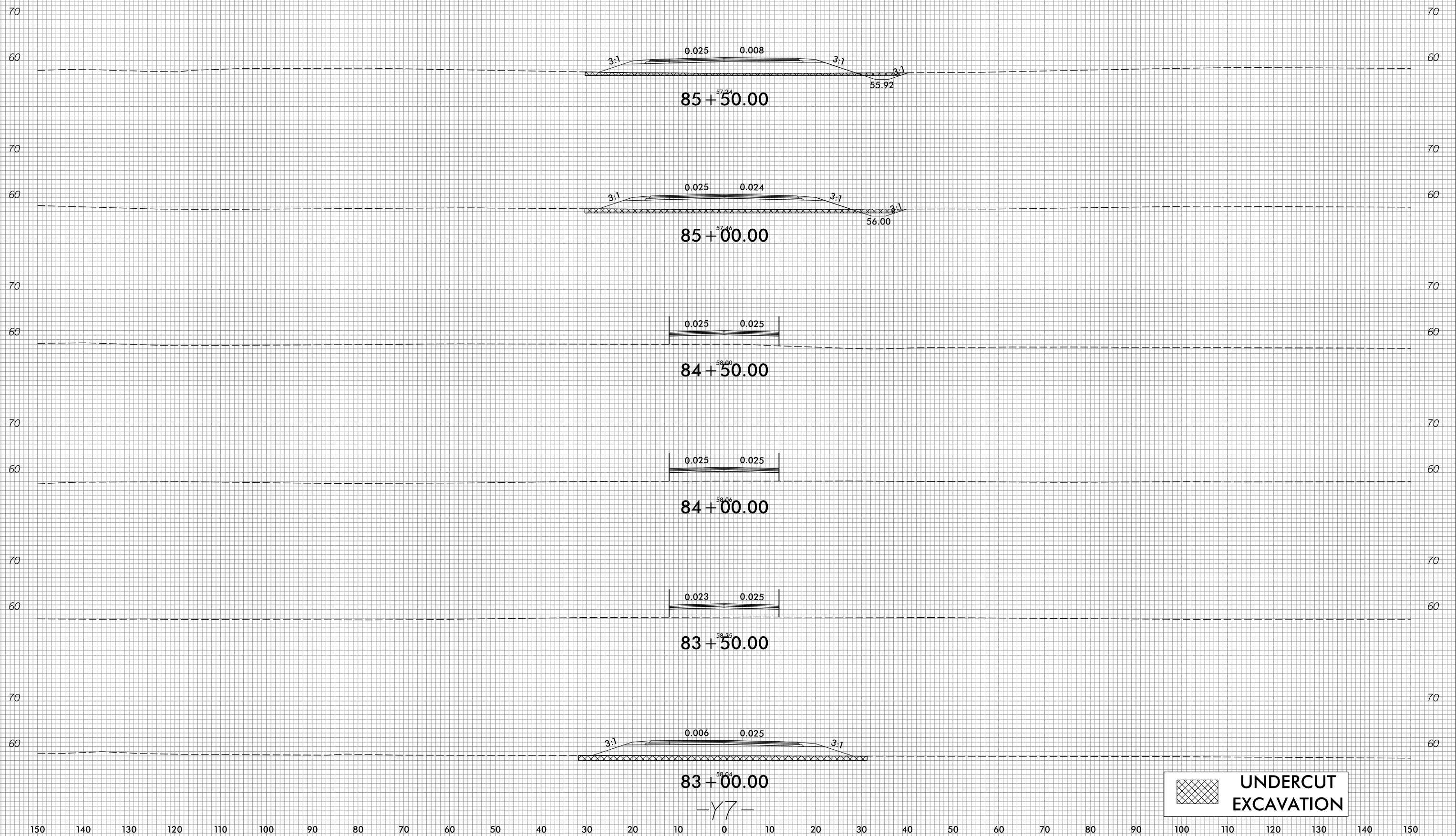
6/23/16

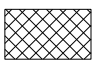


PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-148

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 UNDERCUT EXCAVATION

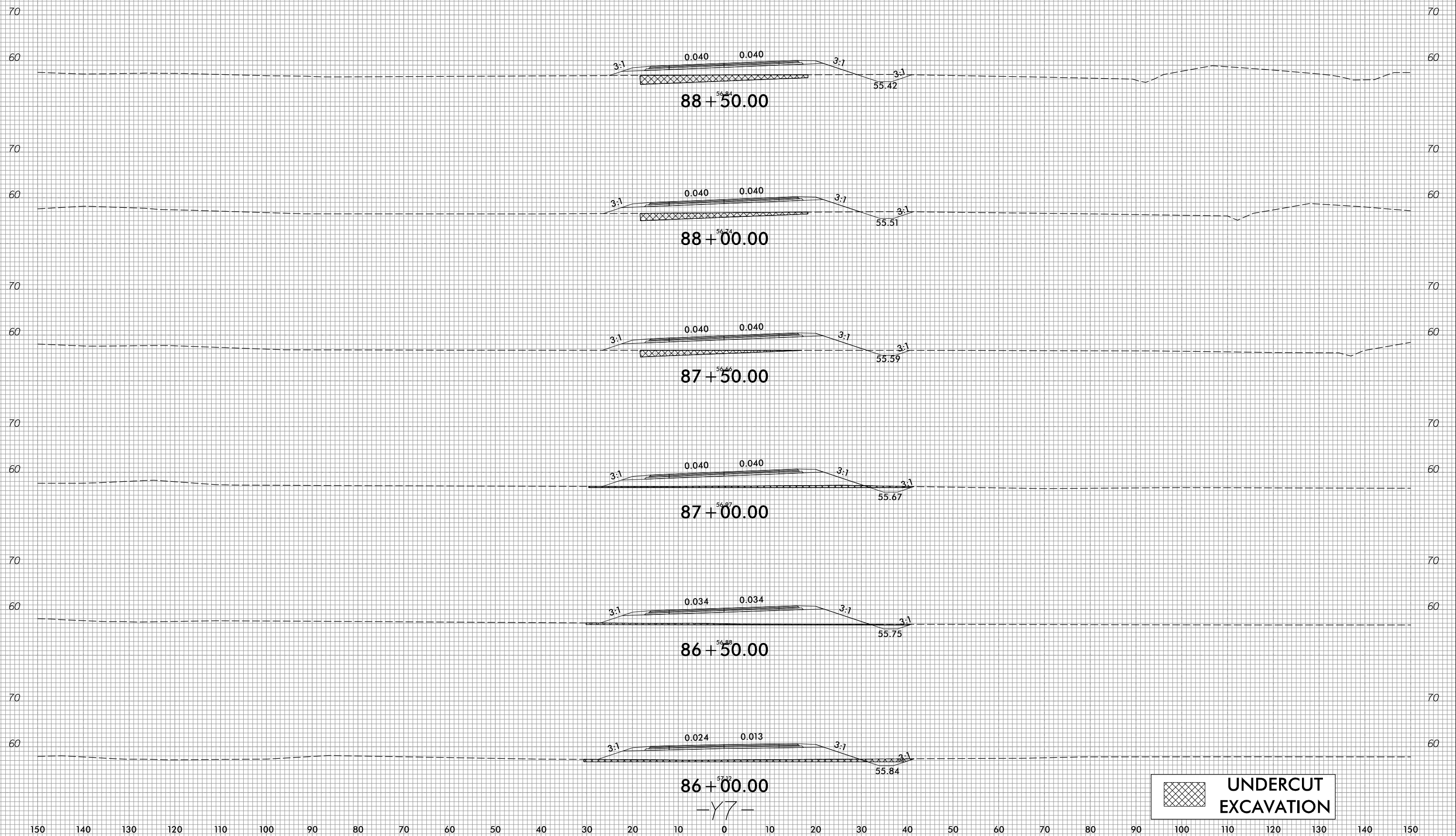
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E:\Roadway\Corridor\Mode\ling\RS819_R5820_RDY_XPL_Y7.dgn
Erica.Warburton

-Y7-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

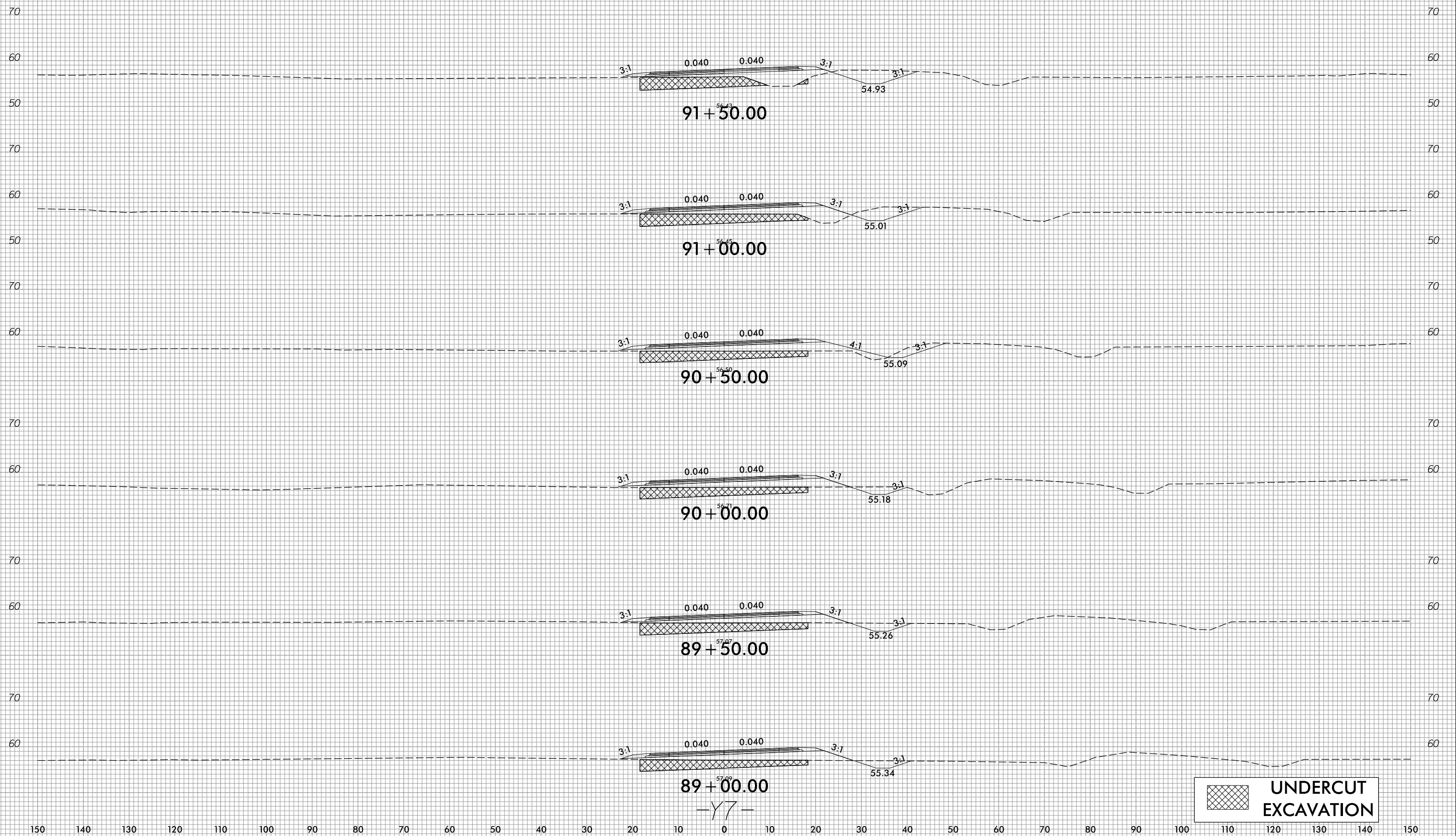


 UNDERCUT
EXCAVATION

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



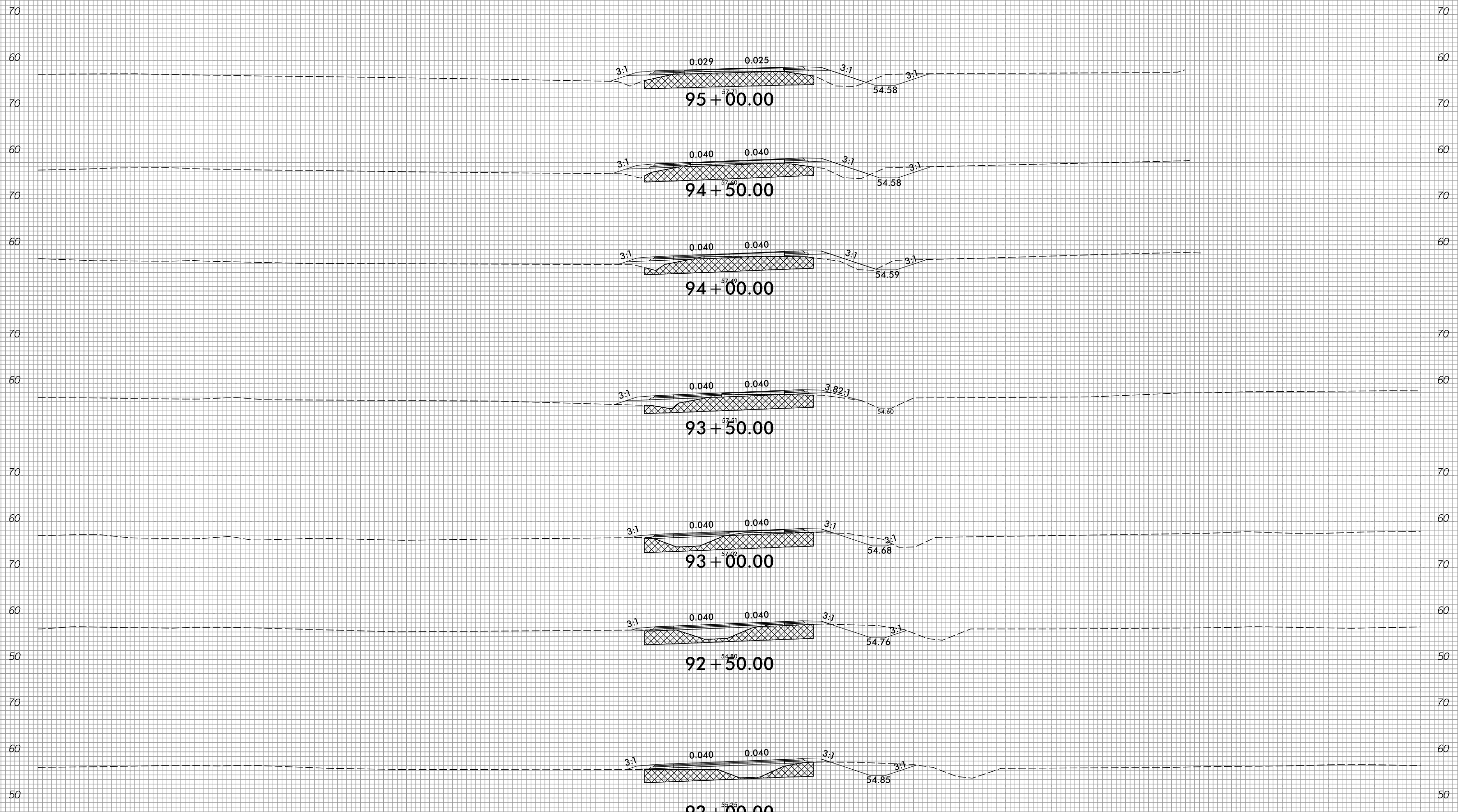
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 UNDERCUT EXCAVATION



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



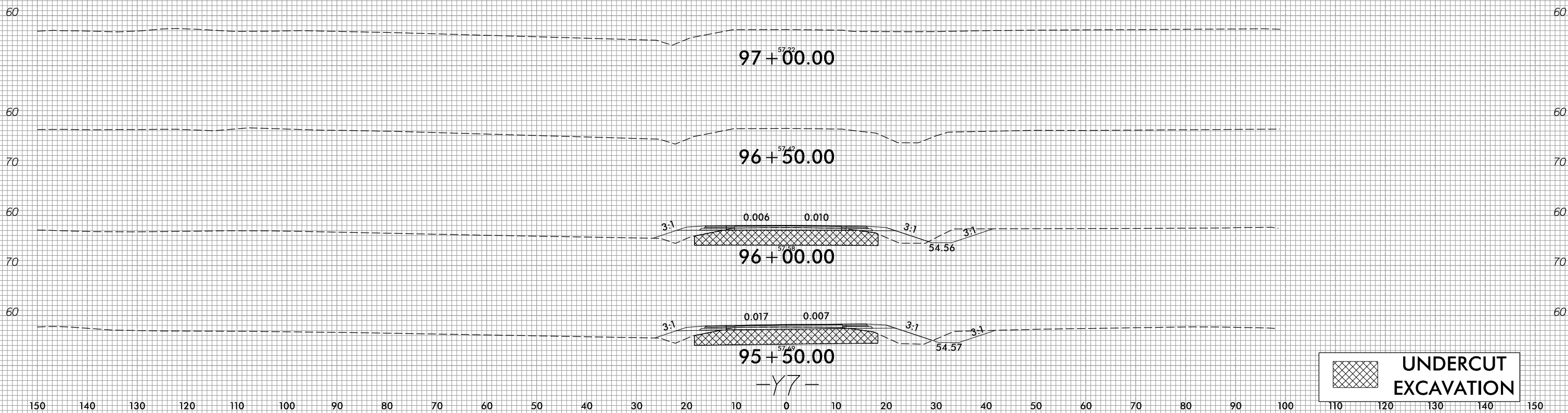
UNDERCUT EXCAVATION

-Y7-

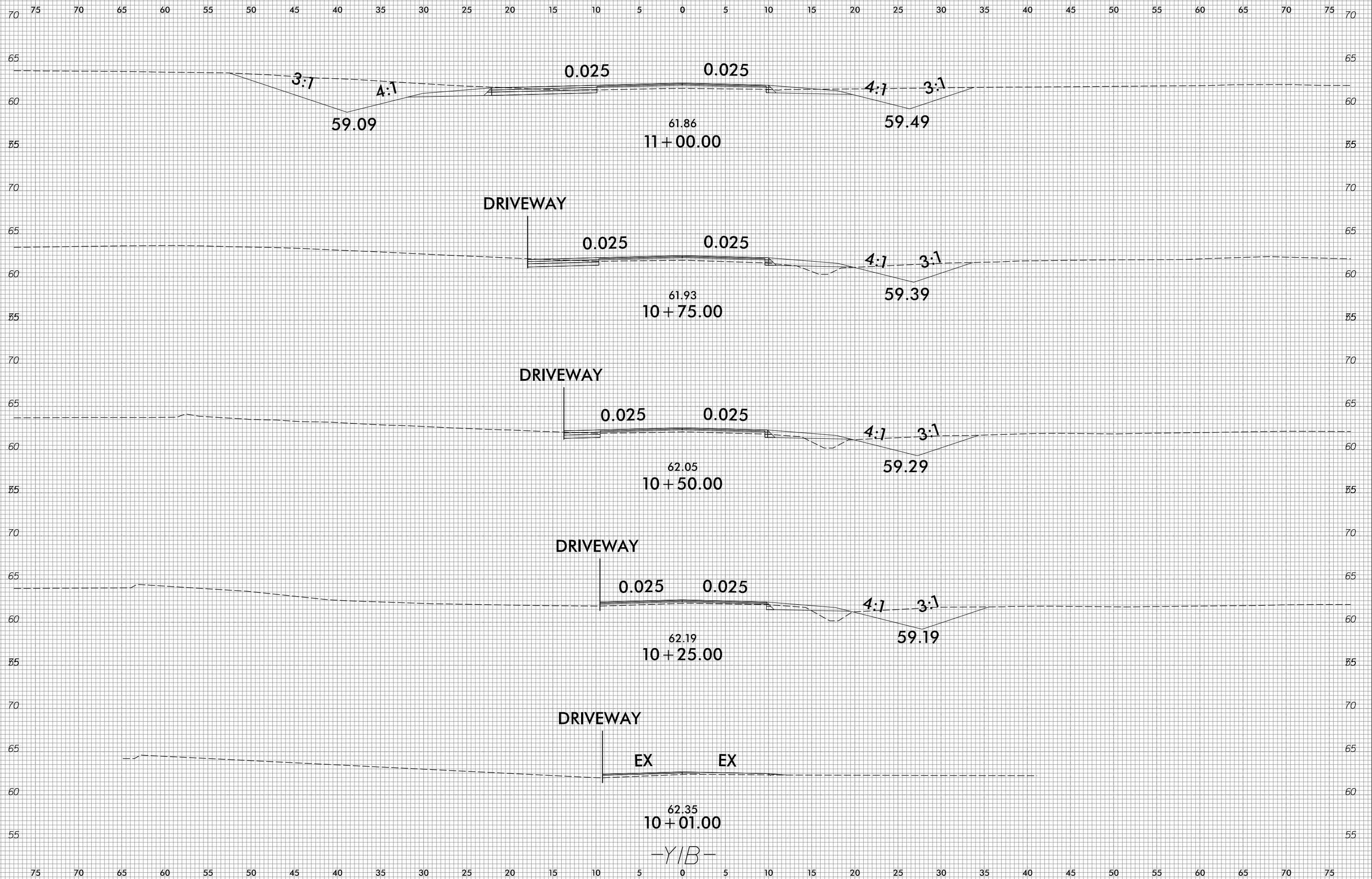
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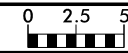
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 UNDERCUT EXCAVATION



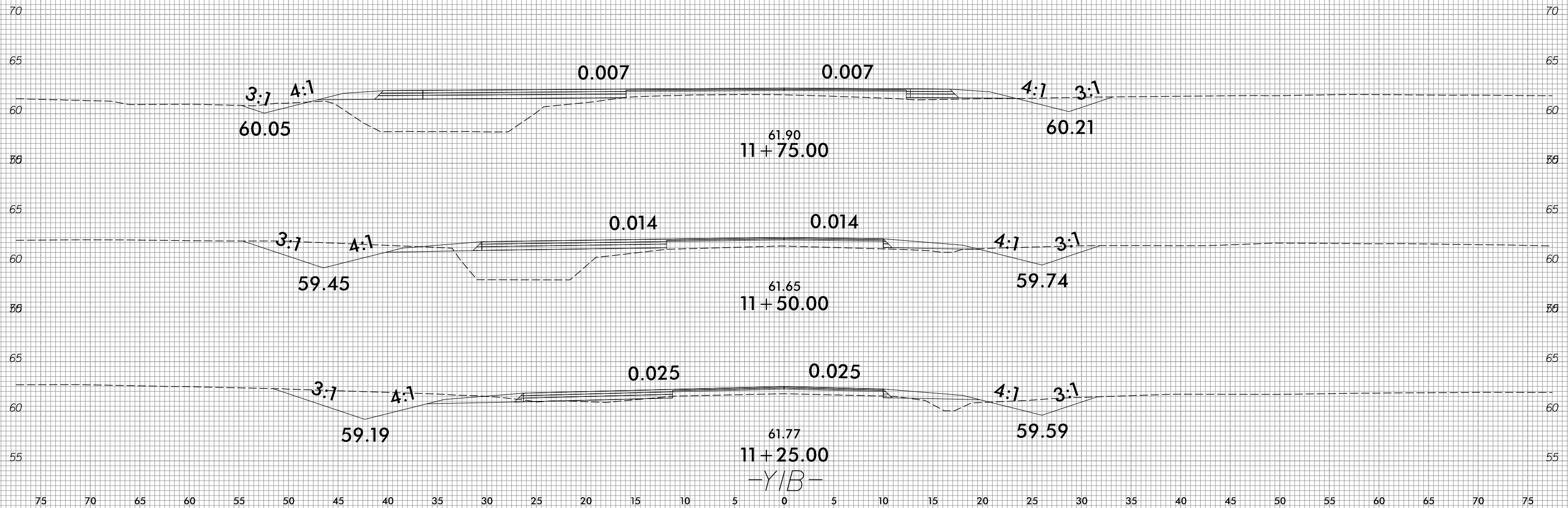
6/23/16



PROJ. REFERENCE NO.
R-5819 / R-5820

SHEET NO.
X-154

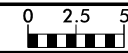
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



2/15/2022
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Grant, Augsburg

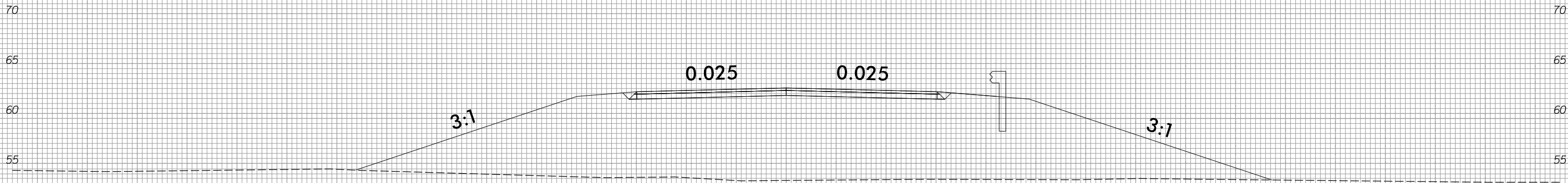
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

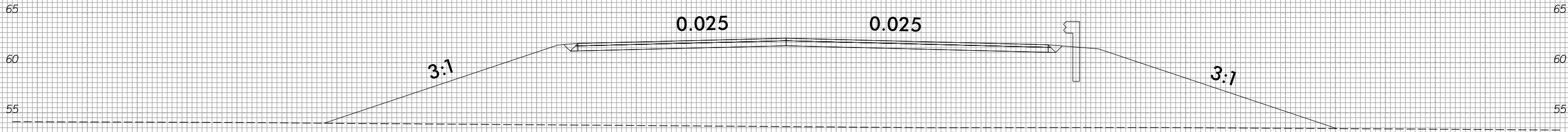


PROJ. REFERENCE NO. R5819-R5820	SHEET NO. X-155
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



53.29
11 + 00.00



53.61
10 + 50.00

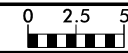
10 + 12.18

10 + 00.00

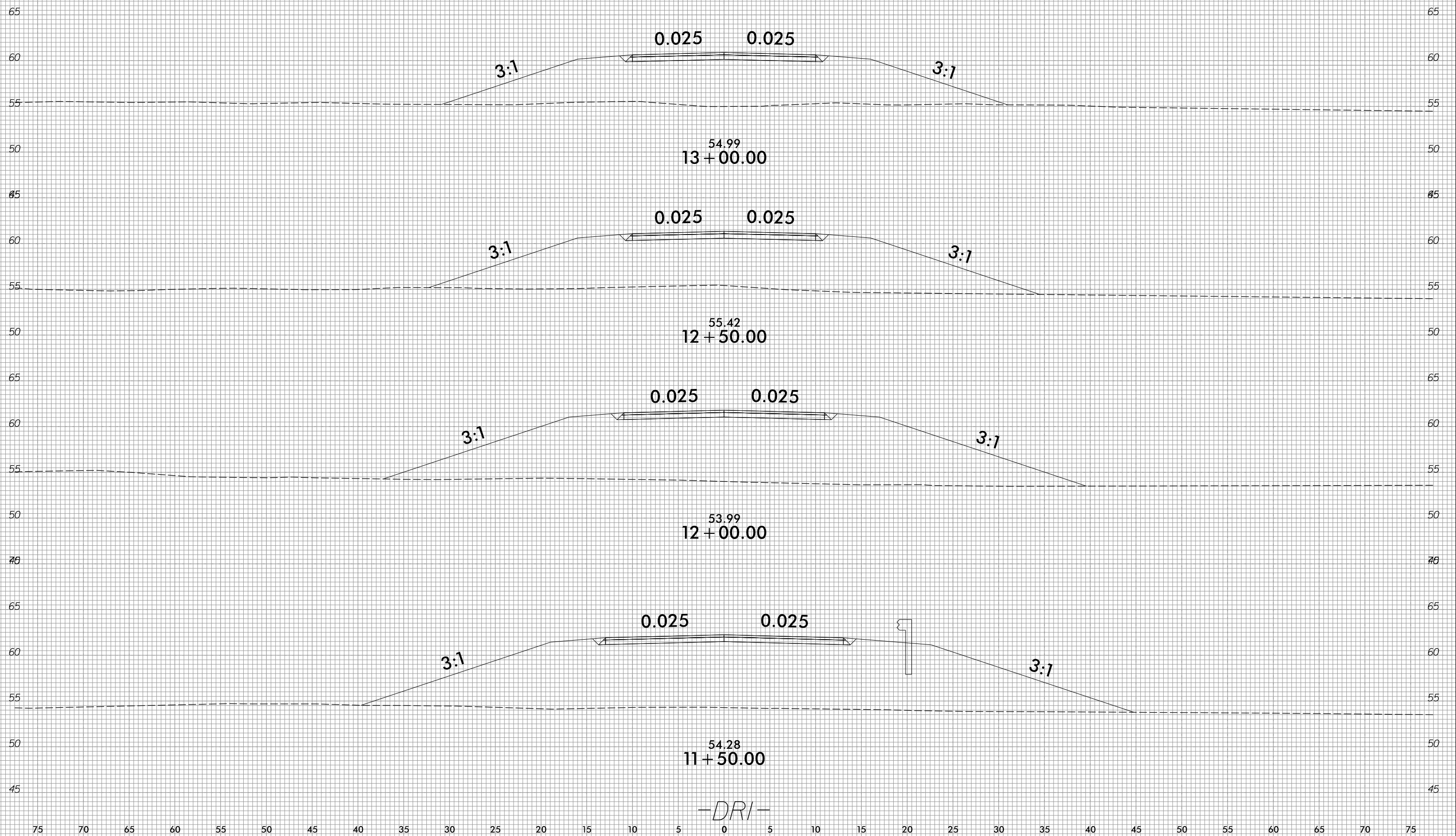
-DRI-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

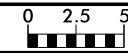
2/15/2022
D:\Roadway\Corridor-Modeling\R5819-R5820_RDY_XPL_DR1.dgn
Grant, Augsburg



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

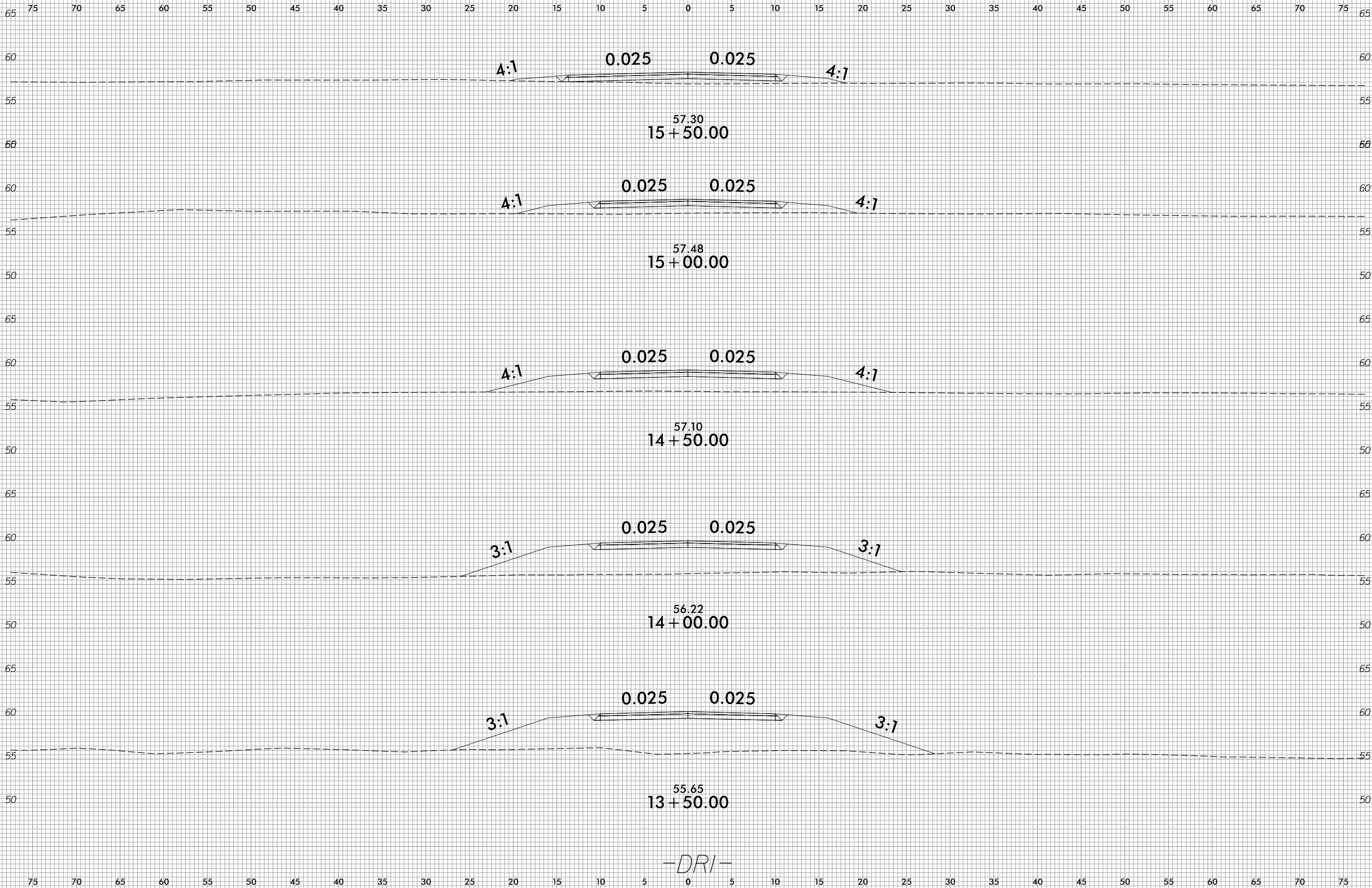


6/23/16



PROJ. REFERENCE NO.
R5819-R5820

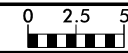
SHEET NO.
X-157



-DRI-

2/15/2022
R:\Roadway\Corridor-Modeling\R5819-R5820_RDY_XPL_DR1.dgn
Grant, Augsburg

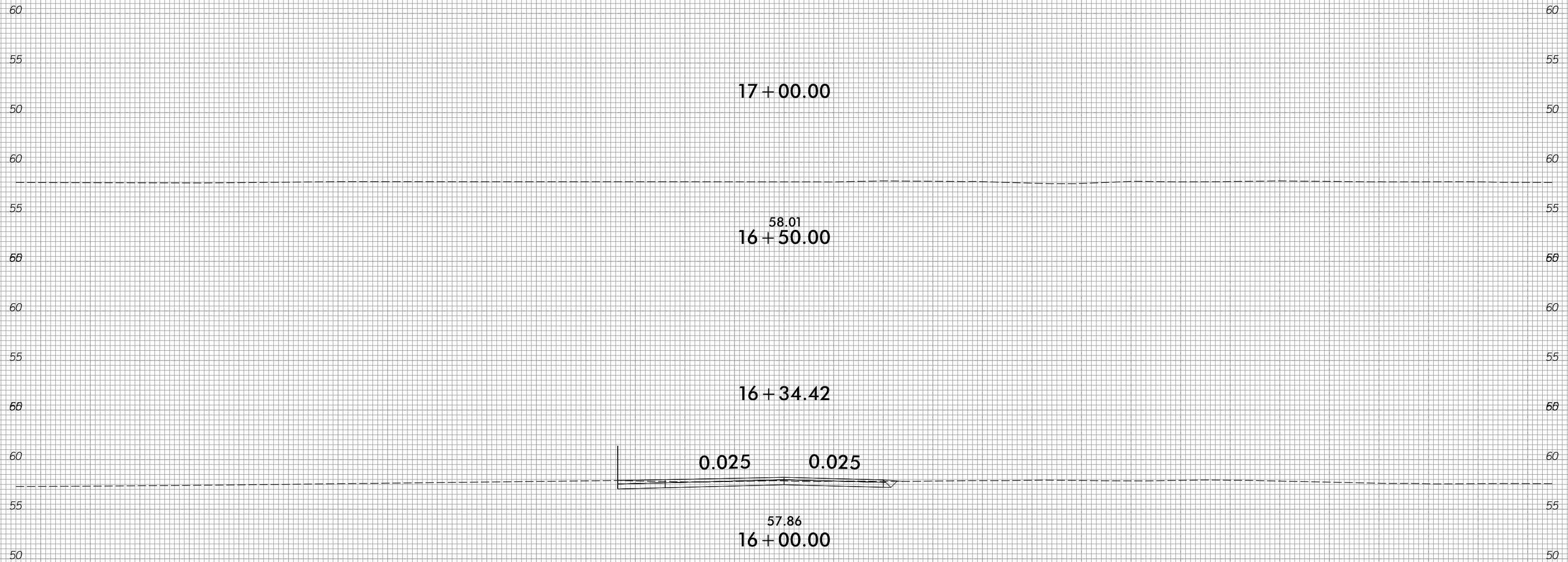
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R5819-R5820	X-158

PROJ. REFERENCE NO.	SHEET NO.
R5819-R5820	X-158

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



17 + 00.00

58.01
16 + 50.00

16 + 34.42

0.025 0.025

57.86
16 + 00.00

-DRI-

2/15/2022
R:\Roadway\CorridorModeling\R5819-R5820_RDY_XPL_DRI.dgn
Grant, Augsburg

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75