

8/23/99
3/7/2025
R:\Roadway\XSC\PS707\Fdgj.xpl\Index.dgn
jprocter

PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-1
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

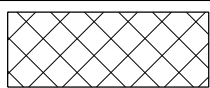
ROGERS ROAD GRADE SEPARATION WAKE COUNTY

T.I.P. PROJECT P-5707

LINE	SHEET NO.
-L-*	X-2 THRU X-33
-Y3-	X-34
-Y5-	X-35 THRU X-44
-DRY5-	X-45
-DRY5A-	X-46
-DR1-	X-47 THRU X-48

* NOTE: -L_DET- SHOWN ON -L- CROSS-SECTIONS

QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL USE METHODS INCLUDING BUT NOT LIMITED TO RECROSS-SECTIONING, TRUCK MEASUREMENTS, AND AERIAL SURVEYS TO COMPUTE FINAL QUANTITIES WHICH THE CONTRACTOR WILL BE PAID.



PROPOSED UNDERCUT

8/17/99

8/3/2026
R:\Cadd\proj\XSC\P5707_Rdu.xpl.X01A.dgn
husken

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
P-5707	X-1A

CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt
L_DET ON L	(cu. yd.)	(cu. yd.)	(cu. yd.)	Y5	(cu. yd.)	(cu. yd.)	(cu. yd.)	Y5 on L	(cu. yd.)	(cu. yd.)	(cu. yd.)	L LT	(cu. yd.)	(cu. yd.)	(cu. yd.)	L LT	(cu. yd.)	(cu. yd.)	(cu. yd.)	L RT	(cu. yd.)	(cu. yd.)	(cu. yd.)
16+95.4000	0	0	0	17+40.0000	0	0	0	48+50.0000	101	370	405	19+50.0000	41	0	47	40+00.0000	4	0	1111	20+50.0000	44	0	29
17+00.0000	2	0	0	17+50.0000	0	0	179	48+61.7300	20	0	138	20+00.0000	13	0	147	40+50.0000	8	0	1356	21+00.0000	69	0	25
17+50.0000	35	0	0	18+00.0000	0	0	2214					20+50.0000	9	0	281	41+00.0000	7	0	1172	21+50.0000	68	0	37
18+00.0000	42	0	0	18+50.0000	0	0	2729	Station	Uncl. Exc.	Undercut	Embt	21+00.0000	8	0	349	41+50.0000	11	0	1004	22+00.0000	47	0	98
18+31.0700	25	0	0	19+00.0000	0	0	2723	DRY5A	(cu. yd.)	(cu. yd.)	(cu. yd.)	21+50.0000	7	0	361	42+00.0000	8	0	960	22+50.0000	25	0	207
				19+50.0000	0	0	2493					22+00.0000	2	0	378	42+50.0000	0	0	1455	23+00.0000	22	0	343
Station	Uncl. Exc.	Undercut	Embt	20+00.0000	4	0	2230	10+25.0000	0	0	0	22+50.0000	0	0	382	43+00.0000	0	0	2076	23+50.0000	12	0	485
L_DET ON L	(cu. yd.)	(cu. yd.)	(cu. yd.)	20+50.0000	9	0	1658	10+50.0000	12	0	4	23+00.0000	0	0	423	43+50.0000	0	0	1765	24+00.0000	0	0	469
18+77.4300	0	0	0	21+00.0000	33	0	997	10+75.0000	9	0	80	23+50.0000	0	0	532	44+00.0000	0	0	988	24+50.0000	3	0	794
19+00.0000	22	0	0	Station	Uncl. Exc.	Undercut	Embt	11+00.0000	9	0	317	24+00.0000	0	0	730	44+50.0000	0	0	567	25+00.0000	10	0	1333
19+50.0000	58	0	0	Y5 ON L	(cu. yd.)	(cu. yd.)	(cu. yd.)	11+09.6400	3	0	186	24+50.0000	0	0	992	45+00.0000	0	0	367	25+50.0000	10	0	1646
20+00.0000	57	0	0	43+72.2300	0	0	0	Station	Uncl. Exc.	Undercut	Embt	25+00.0000	0	0	1314	45+50.0000	0	0	208	26+00.0000	6	0	2013
20+50.0000	66	0	0	44+00.0000	20	0	294	DRY5	(cu. yd.)	(cu. yd.)	(cu. yd.)	25+50.0000	0	0	1852	46+00.0000	0	0	129	26+50.0000	5	0	2391
21+00.0000	67	0	0	44+50.0000	27	0	544	10+27.0000	0	0	0	26+00.0000	0	0	2497	46+50.0000	4	0	77	27+00.0000	5	0	2772
21+50.0000	51	0	0	45+00.0000	18	0	735	10+50.0000	3	0	12	26+50.0000	0	0	2963	47+00.0000	10	0	22	27+50.0000	7	0	3126
22+00.0000	60	0	0	45+50.0000	117	51	812	10+88.0000	4	0	20	27+00.0000	0	0	3343	47+25.0000	6	0	4	28+00.0000	8	0	3453
22+50.0000	70	0	0	46+00.0000	160	481	1042	Station	Uncl. Exc.	Undercut	Embt	28+00.0000	0	0	6343	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt
23+00.0000	75	0	3	46+26.1100	54	0	716	DRY5	(cu. yd.)	(cu. yd.)	(cu. yd.)	28+87.5000	0	0	4796	L LT	(cu. yd.)	(cu. yd.)	(cu. yd.)	L RT	(cu. yd.)	(cu. yd.)	(cu. yd.)
23+50.0000	62	0	1	Station	Uncl. Exc.	Undercut	Embt	11+24.0000	0	0	0	Station	Uncl. Exc.	Undercut	Embt	32+00.0000	0	0	0	32+00.0000	0	0	0
23+77.1400	24	0	1	Y5 RT	(cu. yd.)	(cu. yd.)	(cu. yd.)	11+50.0000	67	0	224	L LT	(cu. yd.)	(cu. yd.)	(cu. yd.)	32+50.0000	6	0	5096	32+50.0000	119	0	4225
Station	Uncl. Exc.	Undercut	Embt	13+34.0000	0	0	0	12+00.0000	153	0	218	30+77.0000	0	0	0	33+00.0000	0	0	4714	33+00.0000	123	0	4059
L_DET ON L	(cu. yd.)	(cu. yd.)	(cu. yd.)	13+50.0000	20	0	14	12+50.0000	97	0	8	31+00.0000	0	0	2966	33+50.0000	0	0	3689	33+50.0000	104	0	3885
24+13.1500	0	0	0	14+00.0000	108	0	143	13+00.0000	41	0	7	31+50.0000	0	0	6479	34+00.0000	2	0	2971	34+00.0000	76	0	3740
24+50.0000	74	0	0	14+25.0000	50	0	70	Station	Uncl. Exc.	Undercut	Embt	32+00.0000	0	0	6581	34+50.0000	3	0	2835	34+50.0000	36	0	3597
25+00.0000	136	0	1	14+50.0000	46	0	82	Y5	(cu. yd.)	(cu. yd.)	(cu. yd.)	35+00.0000	0	0	2567	35+00.0000	1	0	2715	35+00.0000	6	0	3405
25+50.0000	138	0	9	15+00.0000	36	0	140	11+00.0000	0	0	0	35+50.0000	0	0	2354	36+00.0000	0	0	2567	36+00.0000	1	0	3155
26+00.0000	72	0	29	15+50.0000	0	0	134	DR1	(cu. yd.)	(cu. yd.)	(cu. yd.)	36+00.0000	0	0	2112	36+50.0000	0	0	2354	36+50.0000	0	0	2994
26+50.0000	25	0	51	16+00.0000	0	0	203	10+50.0000	0	0	0	37+00.0000	0	0	2028	37+00.0000	0	0	2112	37+00.0000	0	0	2966
27+00.0000	12	0	42	16+50.0000	0	0	230	10+75.0000	0	0	1486	37+50.0000	0	0	2537	37+50.0000	3	49	2028	37+50.0000	0	0	2879
27+50.0000	33	0	12	17+00.0000	0	0	312	11+25.0000	0	0	943	38+00.0000	0	0	3192	38+00.0000	3	189	2537	38+00.0000	0	0	2444
28+00.0000	37	0	18	17+40.0000	0	0	156	11+50.0000	0	0	767	38+36.0000	0	0	1207	38+50.0000	1	285	3192	38+50.0000	1	285	1961
28+50.0000	15	0	45	Station	Uncl. Exc.	Undercut	Embt	12+00.0000	26	0	1	39+00.0000	0	0	0	39+50.0000	1	97	1207	39+00.0000	1	97	1875
29+00.0000	24	0	44	Y5	(cu. yd.)	(cu. yd.)	(cu. yd.)	12+50.0000	15	0	47	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt
29+50.0000	16	0	64	26+00.0000	0	88	0	13+00.0000	77	0	191	L RT	(cu. yd.)	(cu. yd.)	(cu. yd.)	39+50.0000	9	0	0	39+50.0000	9	0	1780
30+00.0000	0	0	163	26+50.0000	12	271	576	13+50.0000	74	0	445	40+00.0000	0	0	571	40+50.0000	13	0	0	40+00.0000	13	0	1640
30+50.0000	0	0	277	27+00.0000	68	244	878	14+00.0000	0	0	461	41+00.0000	0	0	493	41+50.0000	4	0	0	40+50.0000	4	0	1878
31+00.0000	0	0	453	27+50.0000	115	447	508	14+25.0000	1	0	102	41+50.0000	0	0	391	42+00.0000	0	0	2	41+00.0000	0	0	2025
31+50.0000	0	0	709	27+96.0800	108	0	380	14+50.0000	5	0	54	42+50.0000	0	0	211	42+50.0000	0	0	2	41+50.0000	0	0	1731
32+00.0000	0	0	877	Station	Uncl. Exc.	Undercut	Embt	15+00.0000	11	0	44	43+00.0000	0	0	68	43+50.0000	0	0	21	42+00.0000	0	0	1538
32+50.0000	0	0	861	Y5 on L	(cu. yd.)	(cu. yd.)	(cu. yd.)	15+50.0000	2	0	64	44+00.0000	0	0	20	44+50.0000	0	0	31	43+00.0000	0	0	1476
33+00.0000	0	0	847	46+26.1100	0	0	0	16+00.0000	0	0	120	45+00.0000	0	0	1	45+50.0000	0	0	15	43+50.0000	0	0	1221
33+50.0000	0	0	642	46+50.0000	3	419	287	16+50.0000	1	0	113	46+00.0000	0	0	0	46+50.0000	0	0	12	44+00.0000	2	0	1263
34+00.0000	1	0	270	47+00.0000	6	384	746	17+00.0000	10	0	179	46+50.0000	15	0	12	47+00.0000	0	0	15	44+50.0000	2	0	1263
34+50.0000	7	0	95	47+50.0000	48	443	157	17+40.0000	13	0	215	47+50.0000	15	0	13	48+00.0000	5	0	15	45+00.0000	12	0	1035
35+00.0000	13	0	28	48+00.0000	106	402	121	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt	Station	Uncl. Exc.	Undercut	Embt
35+50.0000	26	0	7	Station	Uncl. Exc.	Undercut	Embt	Y5	(cu. yd.)	(cu. yd.)	(cu. yd.)	L LT	(cu. yd.)	(cu. yd.)	(cu. yd.)	L LT	(cu. yd.)	(cu. yd.)	(cu. yd.)	L RT	(cu. yd.)	(cu. yd.)	(cu. yd.)
36+00.0000	29	0	2	37+55.6500	0	0	0	46+26.1100	0	0	0	37+55.6500	0	0	0	37+55.6500	0	0	0	46+26.1100	0	0	0
36+59.6000	14	0	1	38+36.0000	0	0	3478	46+50.0000	3	0	419	38+36.0000	0	0	3478	38+36.0000	0	0	3478	46+50.0000	3	0	419
				38+50.0000	6	384	746	47+00.0000	6	384	746	38+50.0000	0	0	1212	38+50.0000	0	0	1212	46+50.0000	3	0	419
				47+50.0000	48	443	157	47+50.0000	48	443	157	39+00.0000	0	0	2580	47+50.0000	24	0	28	47+50.0000	61	0	705
				48+00.0000	106	402	121	48+00.0000	106	402	121	39+50.0000	0	0	804	48+00.0000	19	0	39	48+00.0000	69	0	681

NOTE: QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL USE METHODS INCLUDING BUT NOT LIMITED TO RECROSS-SECTIONING, TRUCK MEASUREMENTS, AND ARIEL SURVEYS TO COMPUTE FINAL QUANTITIES WHICH THE CONTRACTOR WILL BE PAID.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

RK&K
P: (919) 878-9560
900 Ridgefield Drive Suite 350 | Raleigh, North Carolina 27609-3960
NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists
www.rkk.com

Responsive People | Creative Solutions

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Undercut	Embt
L RT	(cu. yd.)	(cu. yd.)	(cu. yd.)
48+50.0000	69	0	665
48+79.0000	40	0	375
Station	Uncl. Exc.	Undercut	Embt
Y3	(cu. yd.)	(cu. yd.)	(cu. yd.)
12+00.0000	0	0	0
12+50.0000	25	0	9
13+00.0000	11	0	37
13+50.0000	0	0	186
14+00.0000	0	0	454
14+50.0000	0	0	1262
Station	Uncl. Exc.	Undercut	Embt
L DET ON L (REMOVAL)	(cu. yd.)	(cu. yd.)	(cu. yd.)
28+31.5800	0	0	0
28+50.0000	15	0	5
29+00.0000	44	0	24
29+50.0000	64	0	16
30+00.0000	163	0	0
30+50.0000	277	0	0
31+00.0000	453	0	0
31+31.1000	272	0	0

NOTE: QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL USE METHODS INCLUDING BUT NOT LIMITED TO RECROSS-SECTIONING, TRUCK MEASUREMENTS, AND ARIEL SURVEYS TO COMPUTE FINAL QUANTITIES WHICH THE CONTRACTOR WILL BE PAID.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

8/17/99

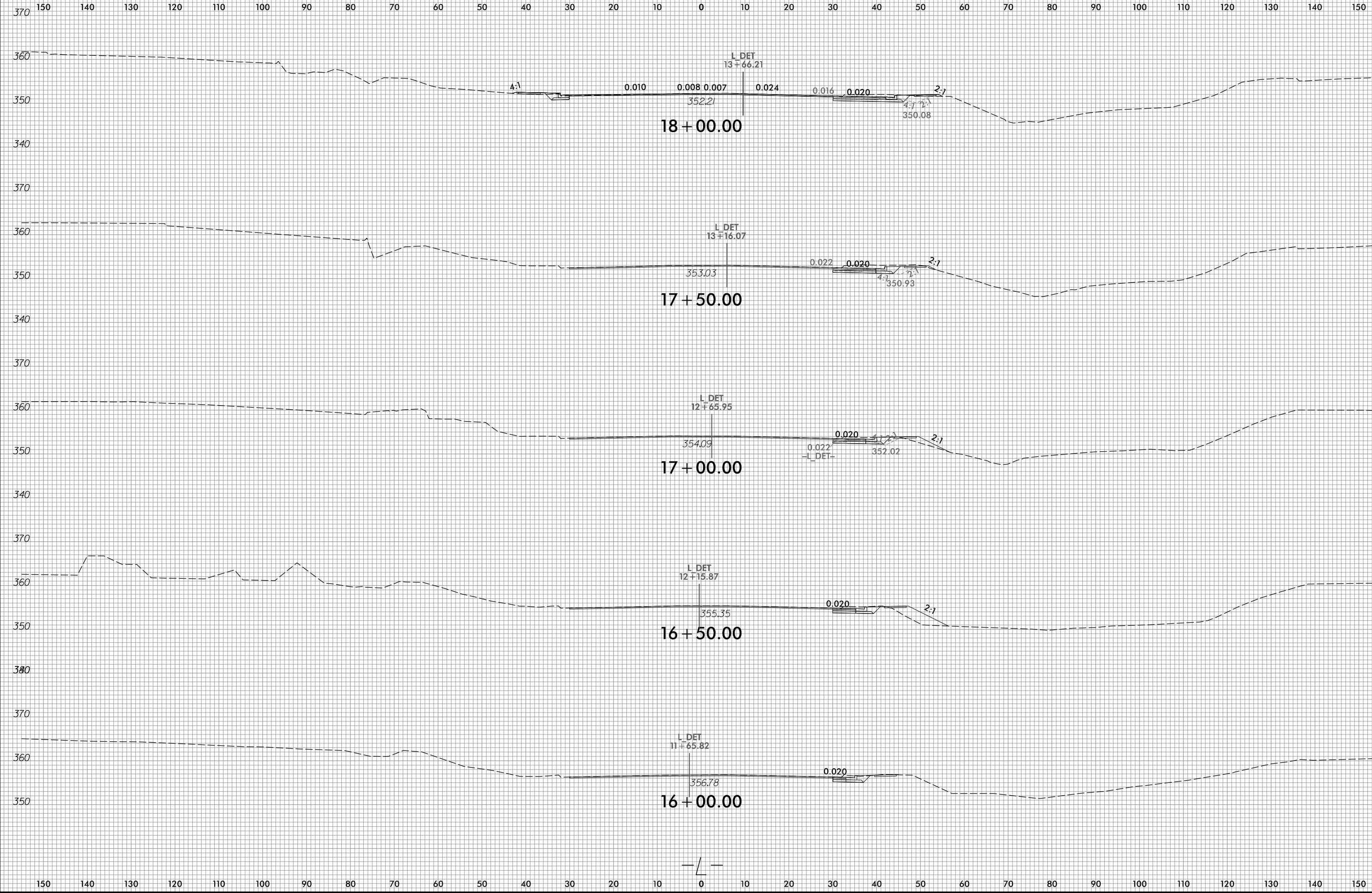
8/3/2026

R:\2026\08\08\XSC\P5707_Rdy.xpl.X01A.dgn

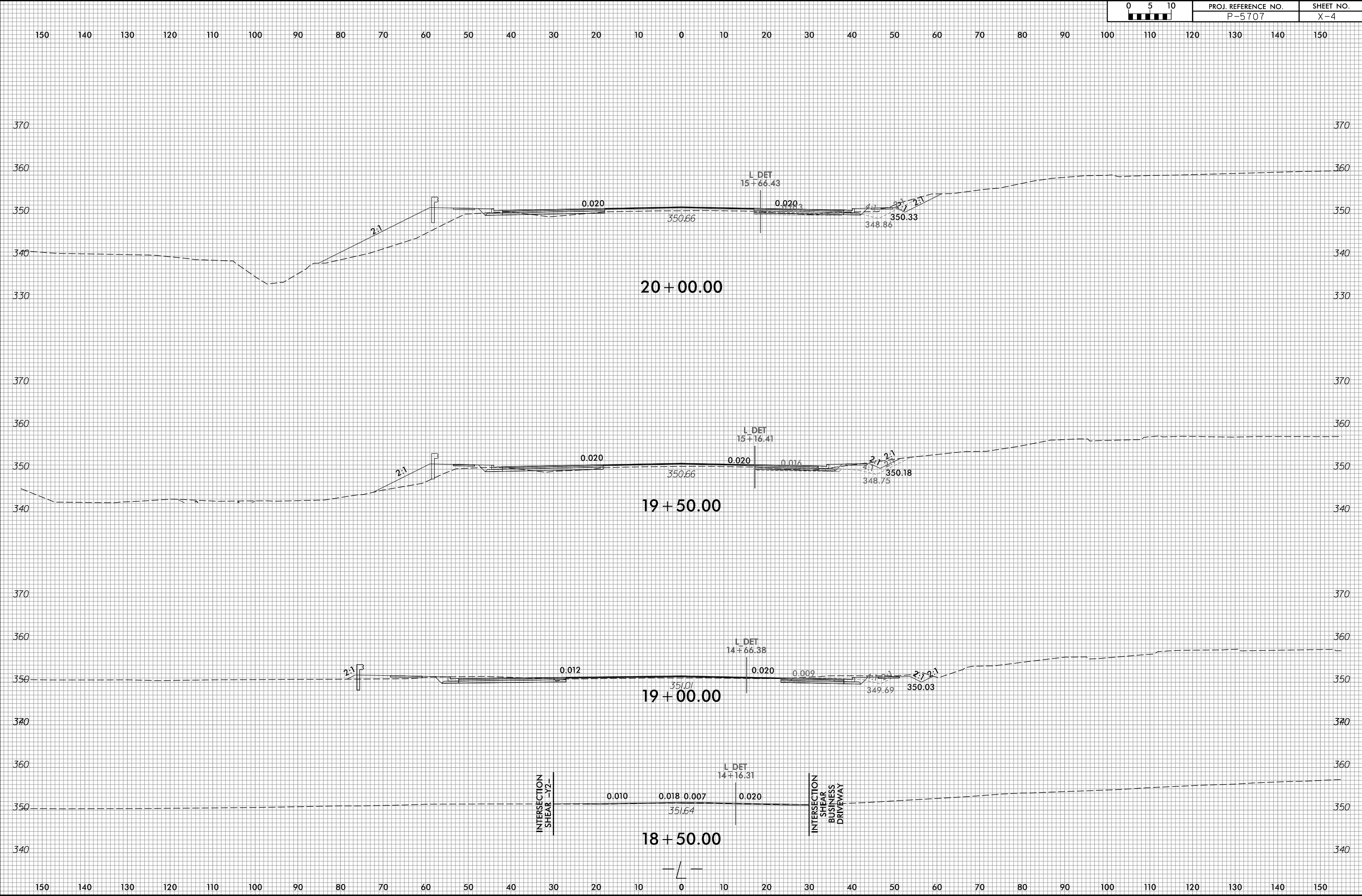
rhsk



6/23/16



6/23/16

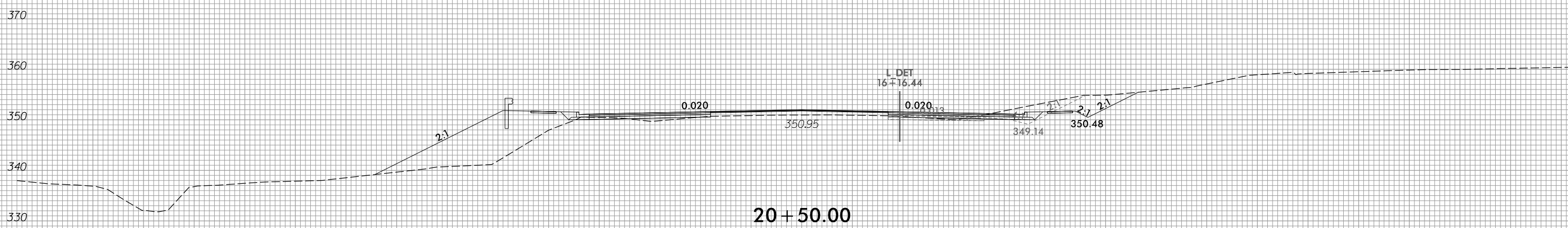
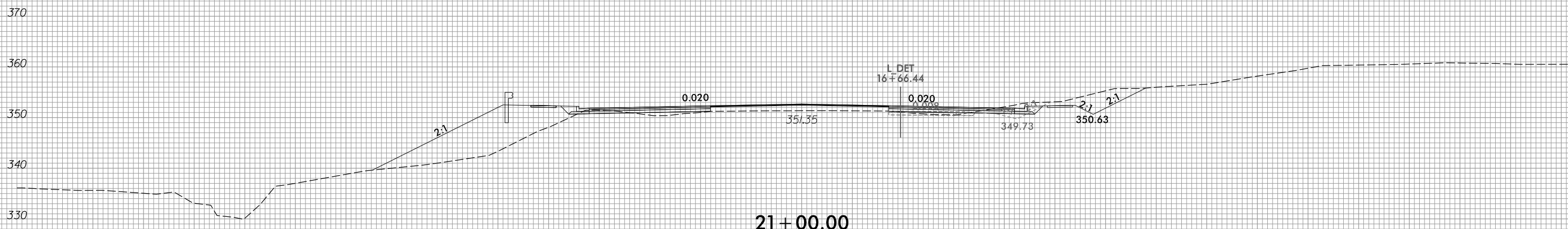
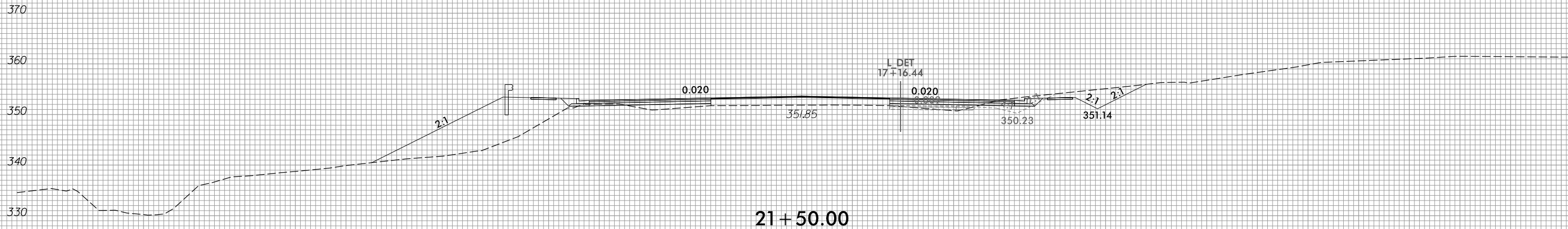


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-5

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

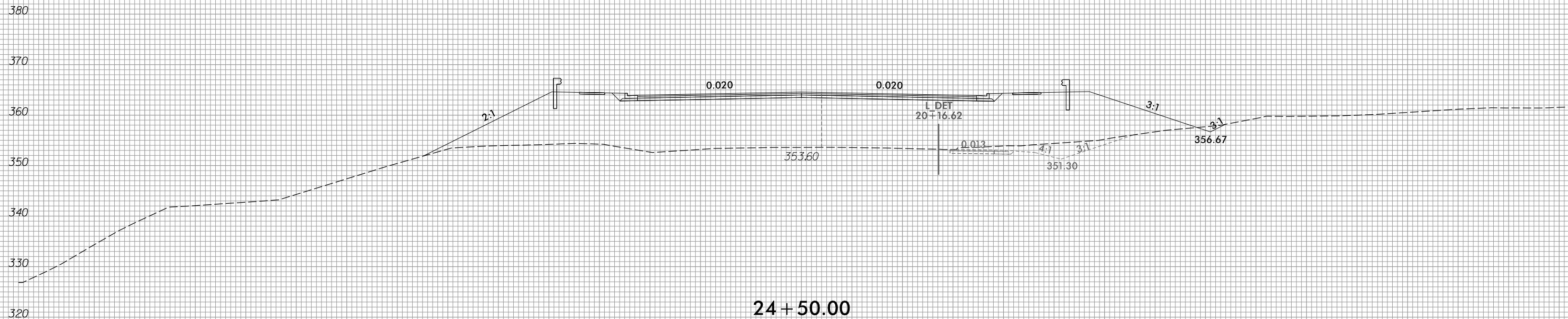
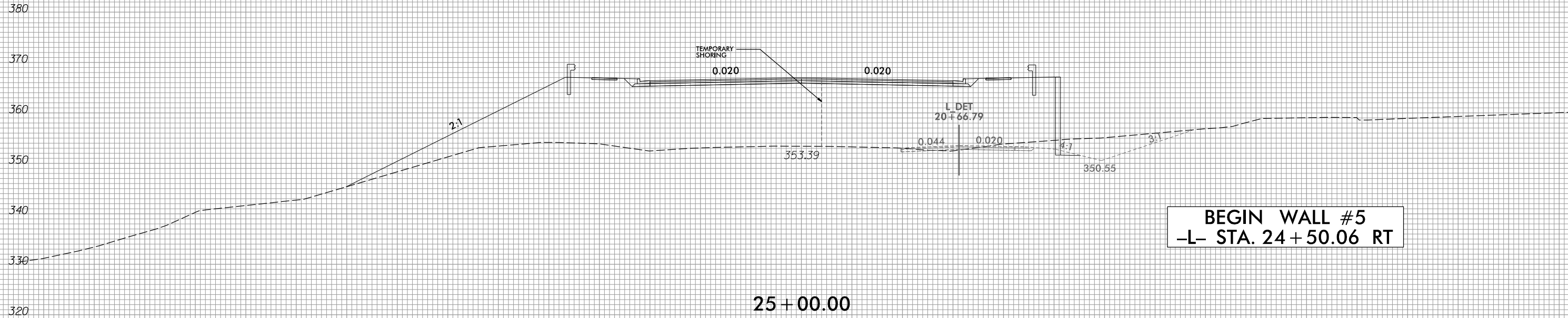


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-8

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



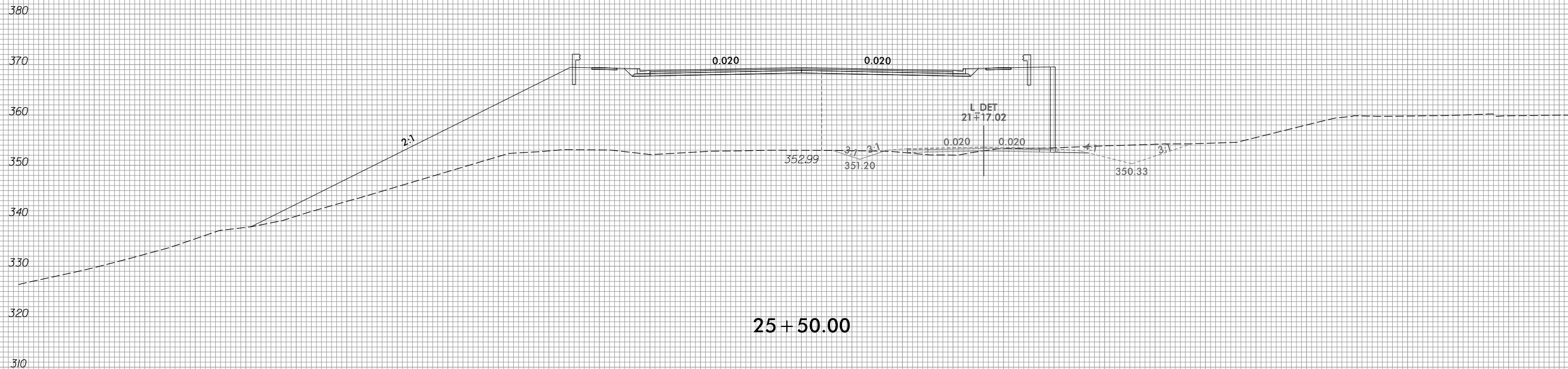
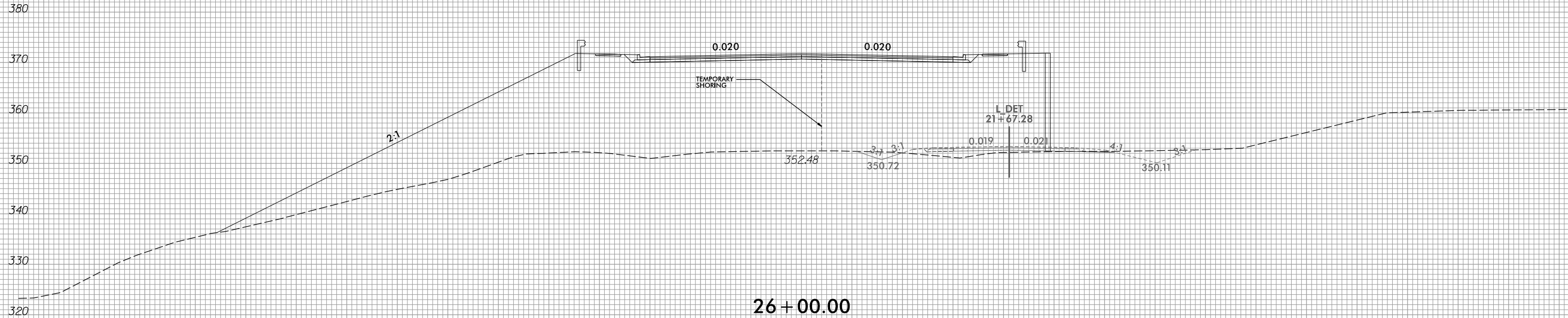
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16

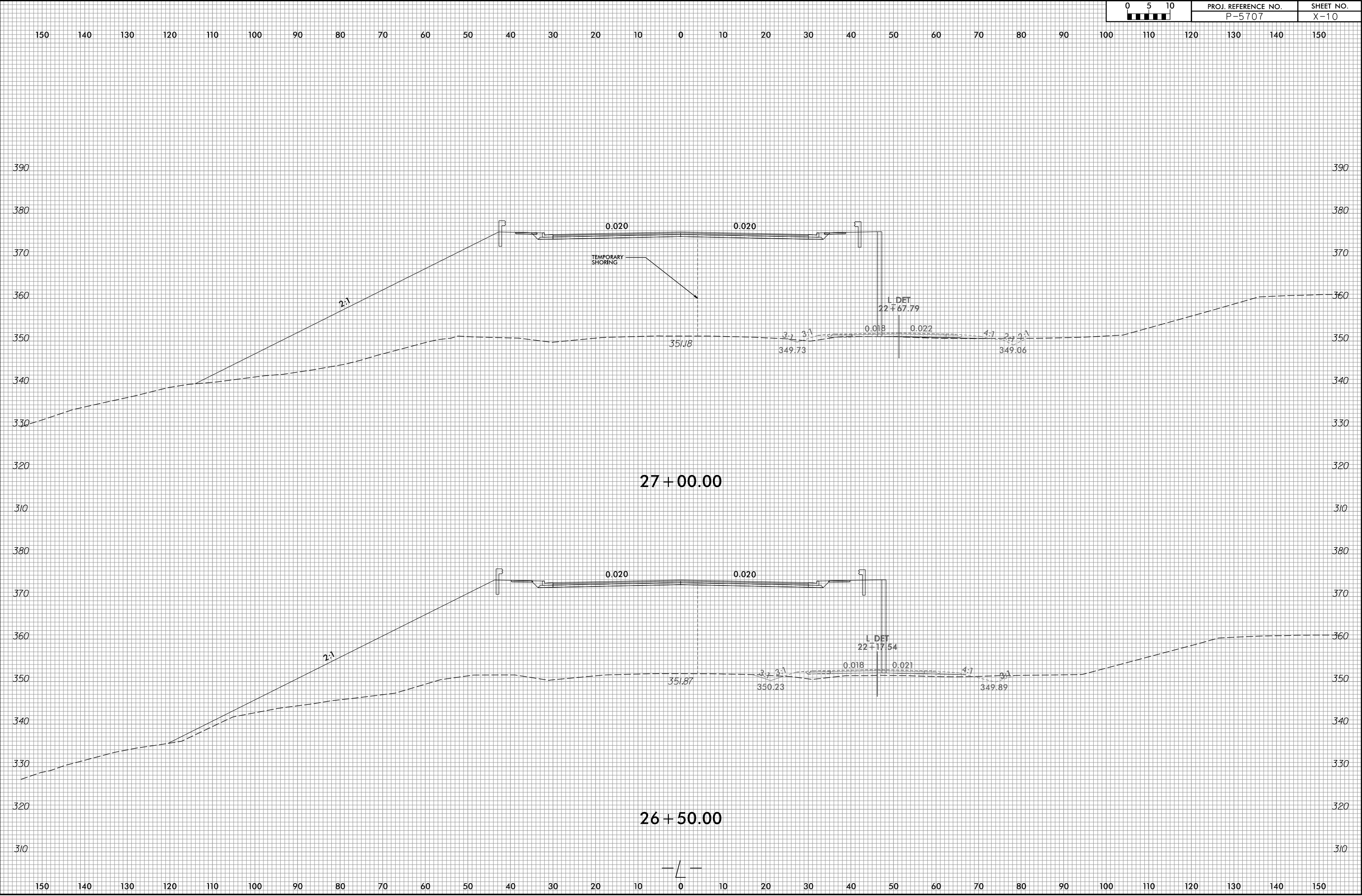


PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-9

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



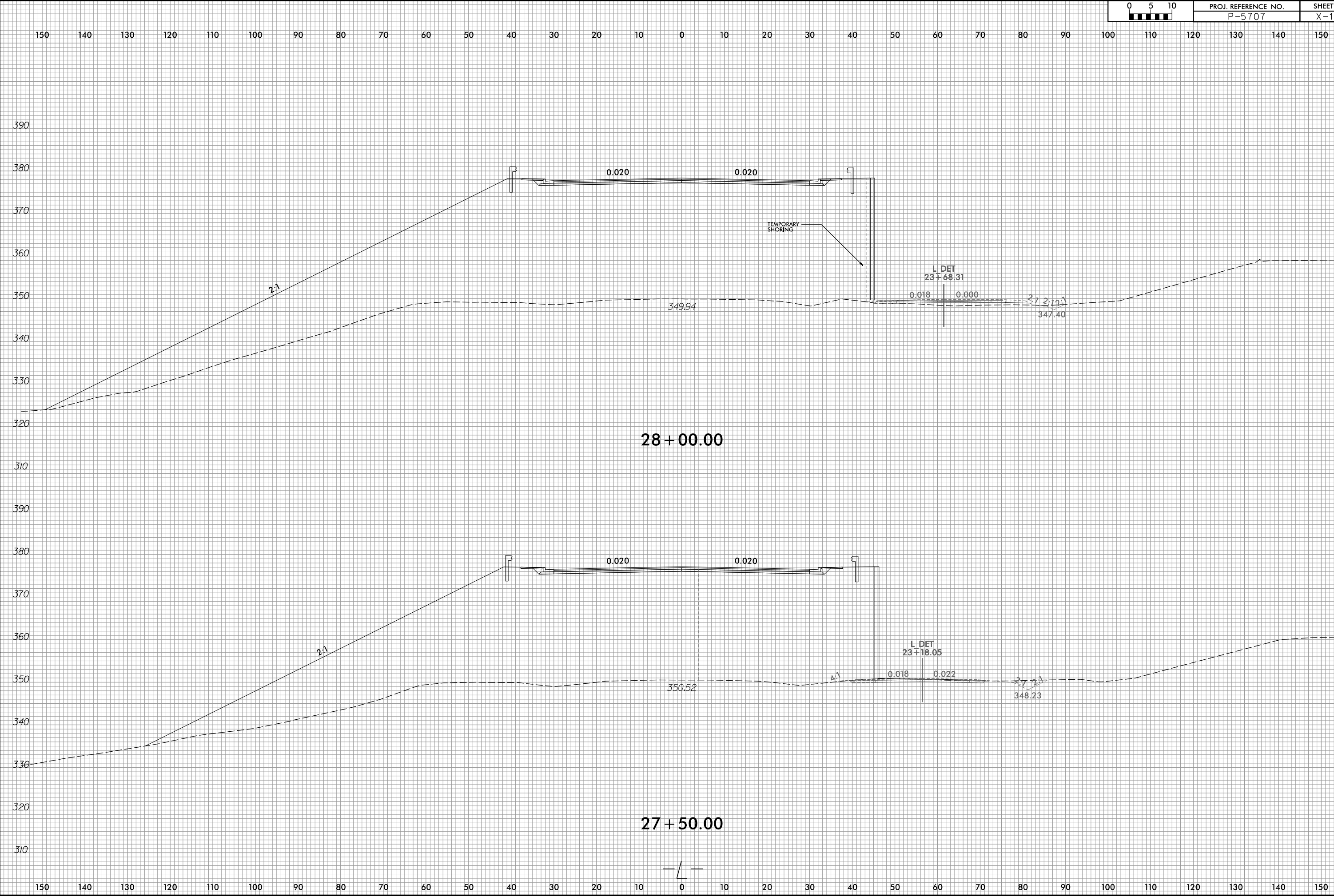
6/23/16



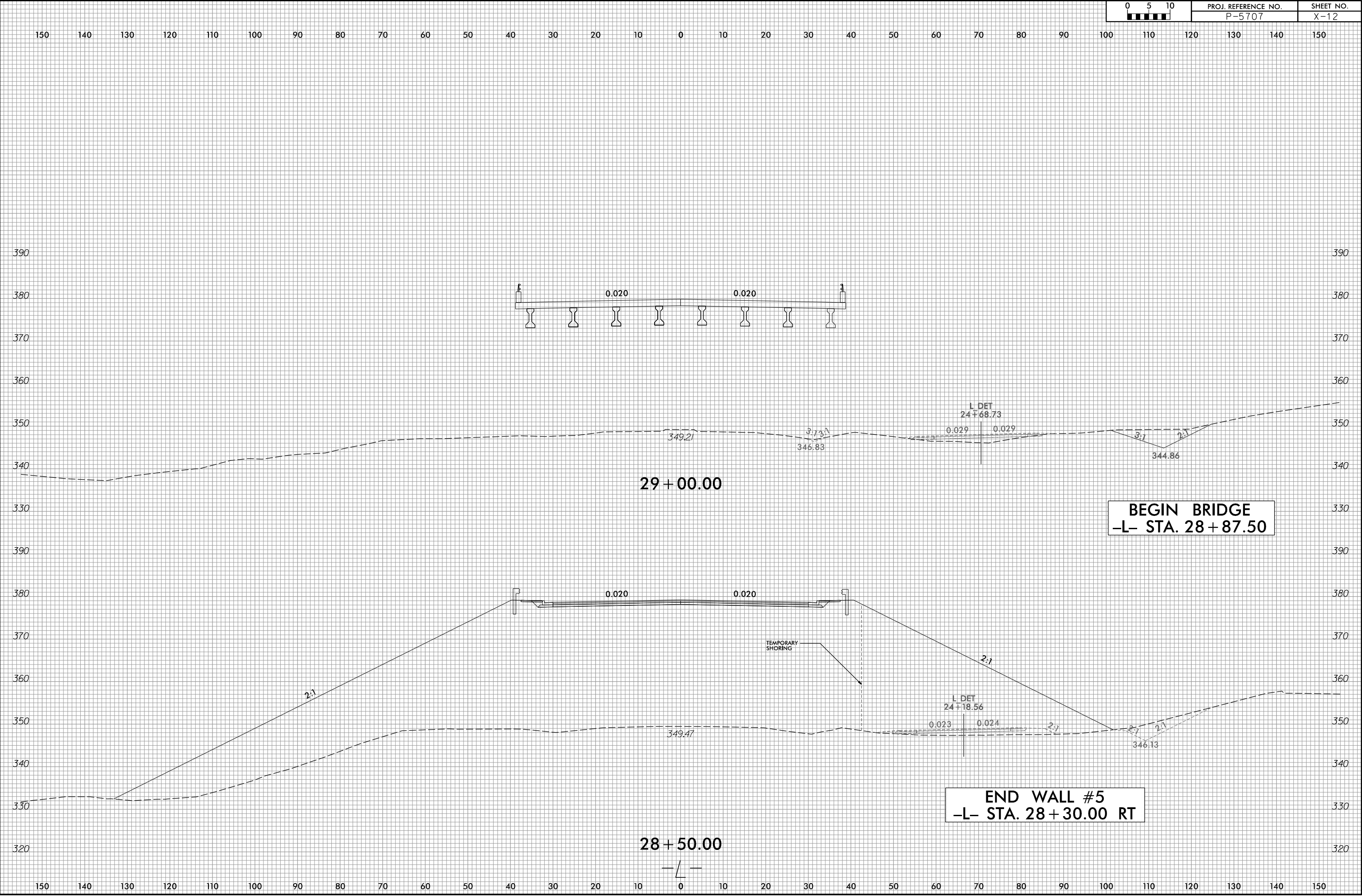
6/23/16



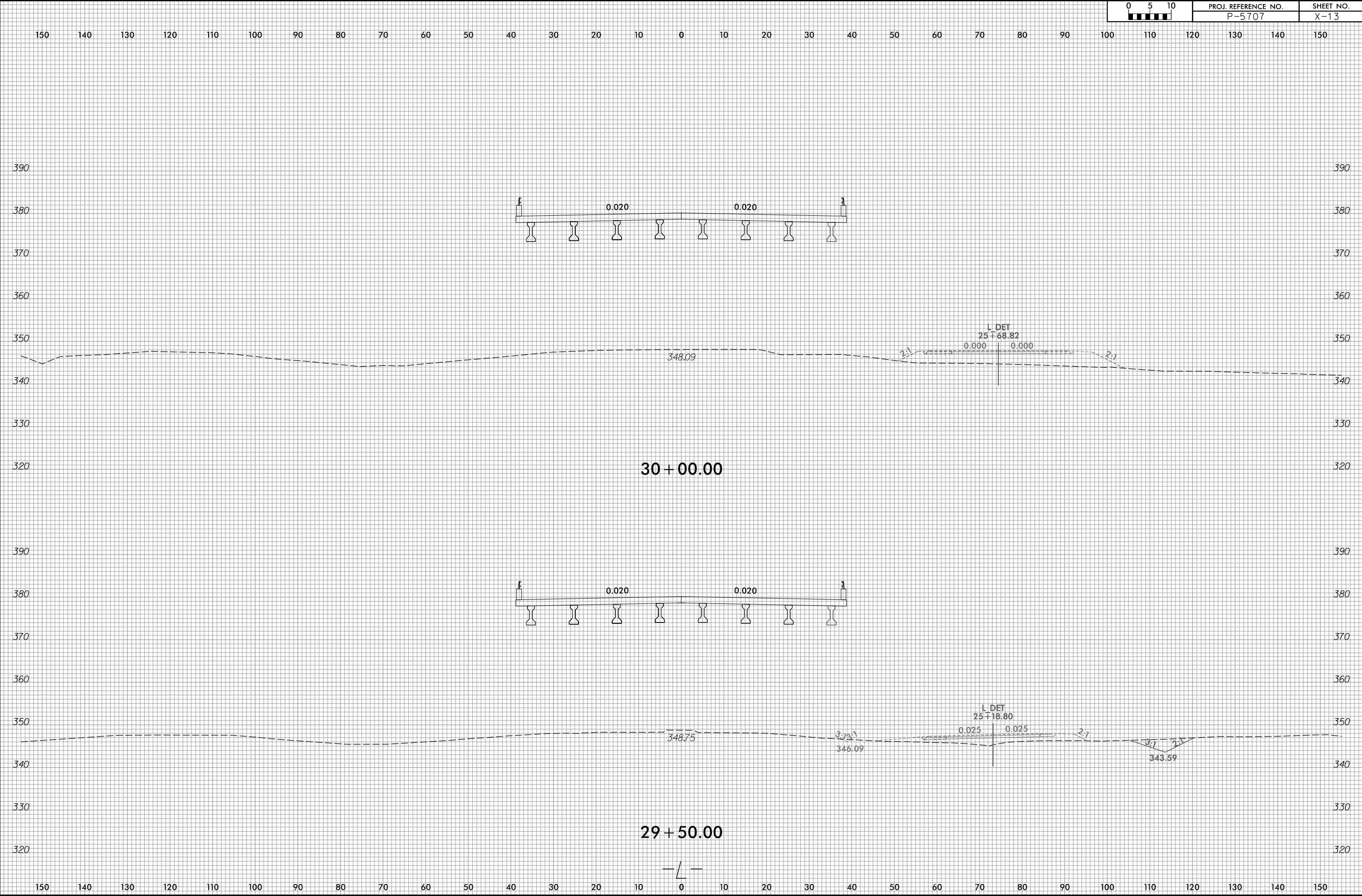
PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-11



6/23/16



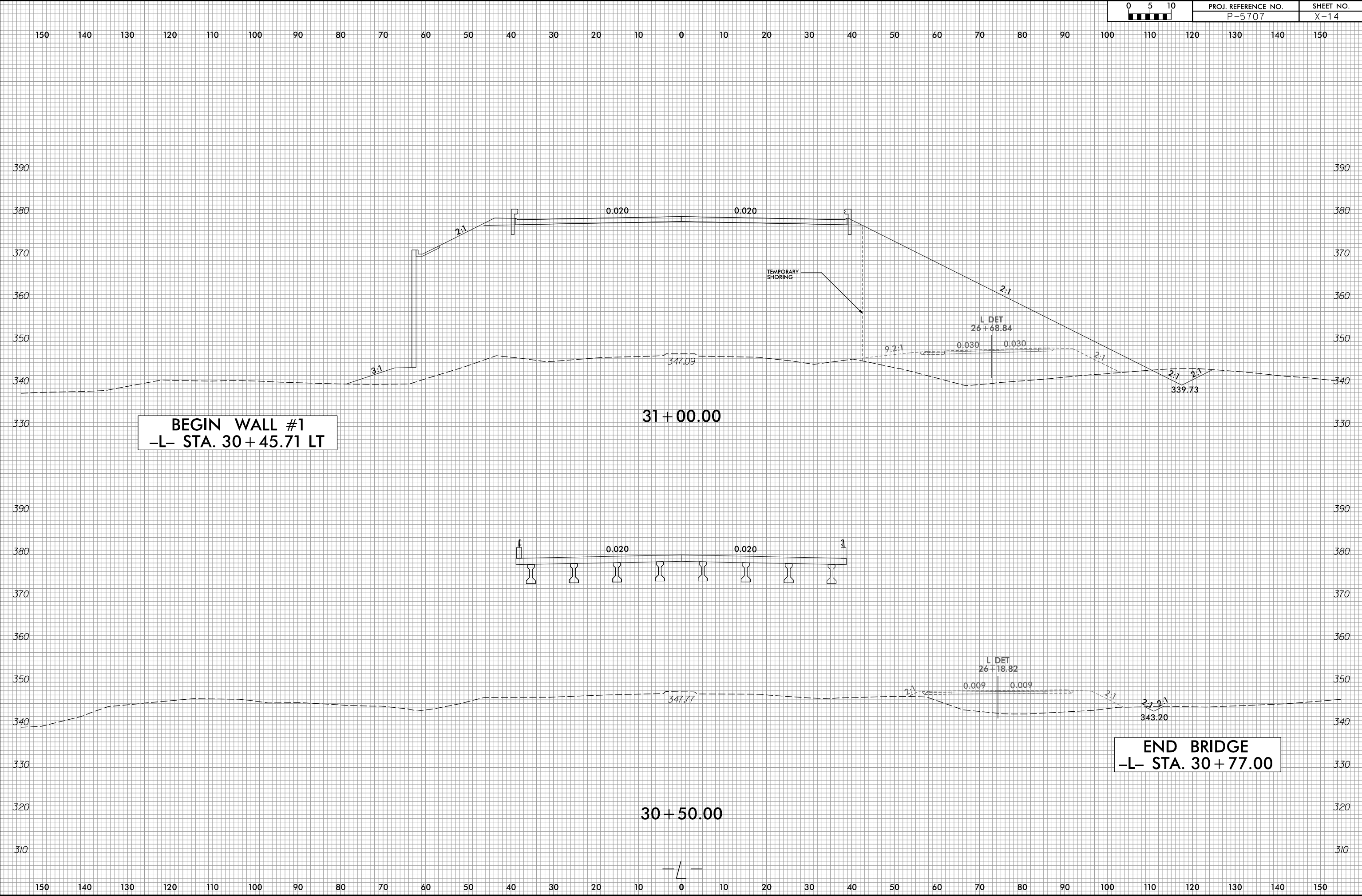
6/23/16



6/23/16



PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-14

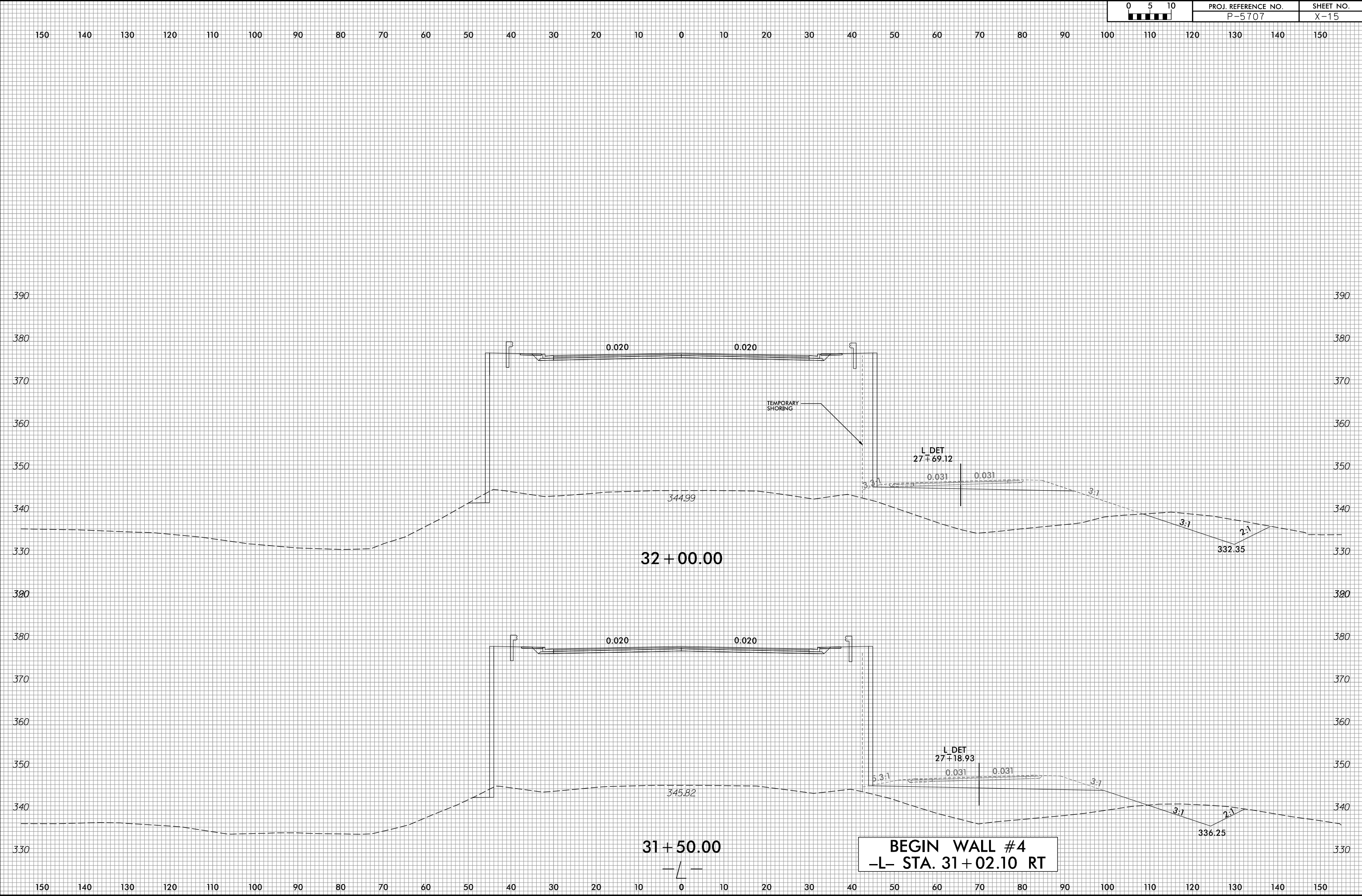


3/7/2025
R:\Roadway\XSC\P5707_RdL.dgn
C:\Program Files\Autodesk\AutoCAD 2015\AutoCAD.exe

6/23/16

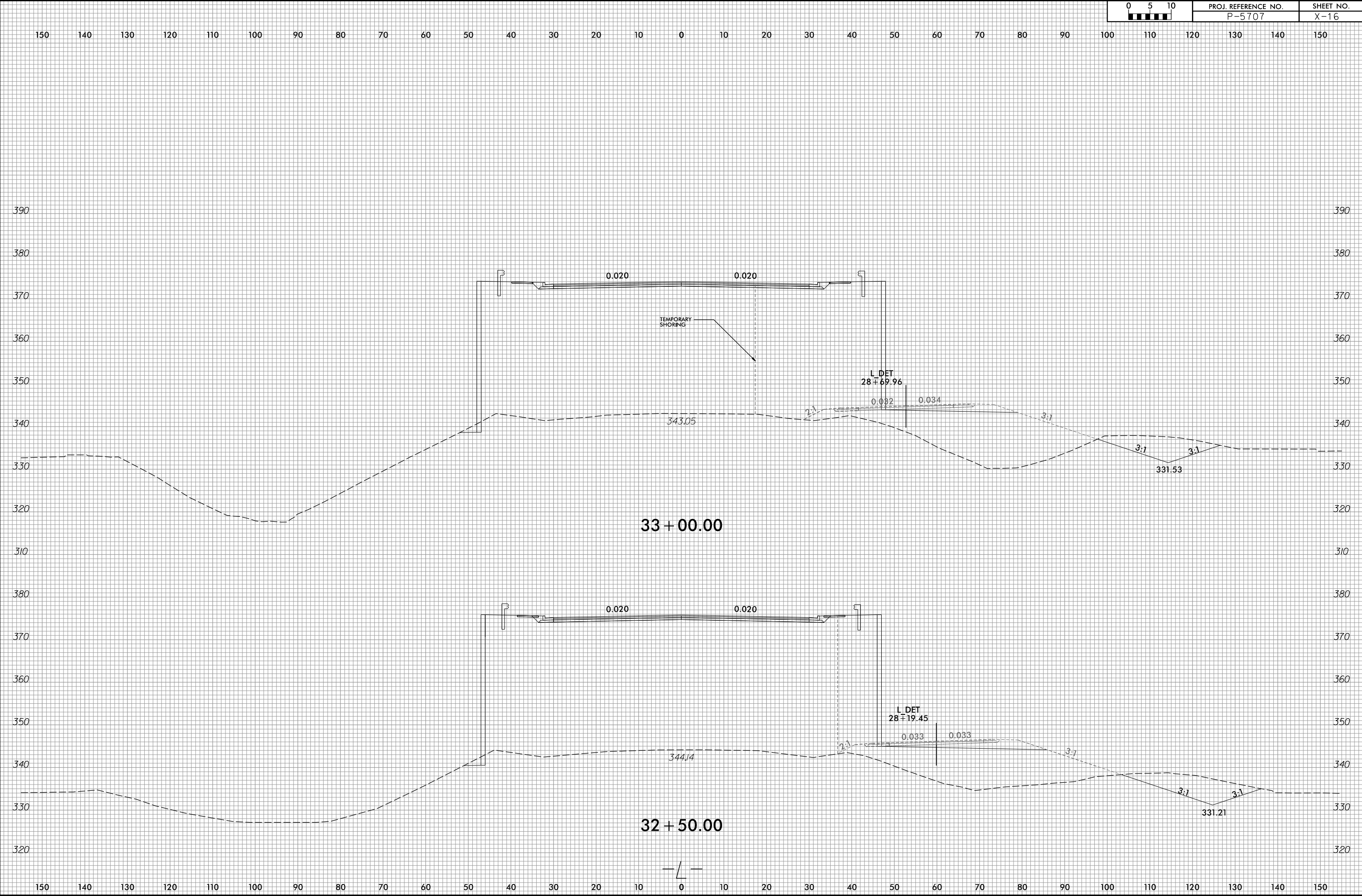


PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-15



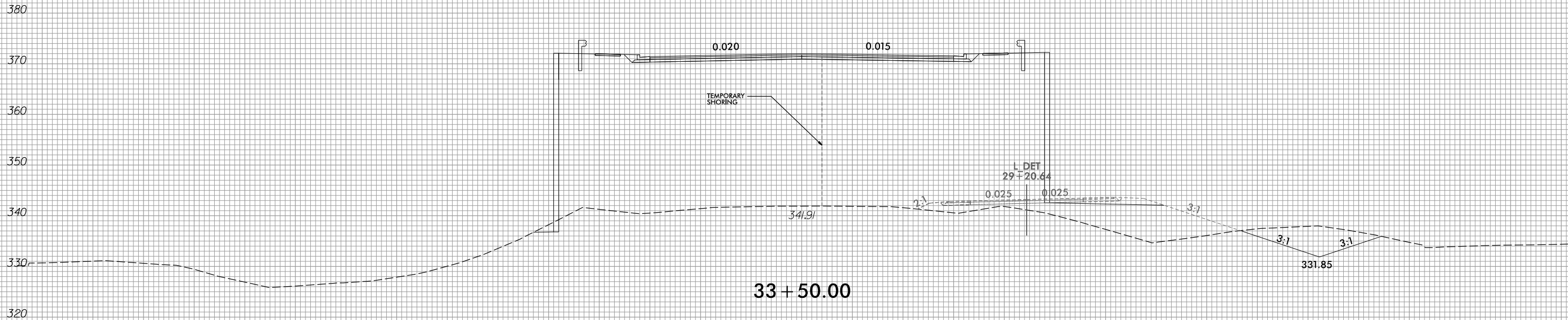
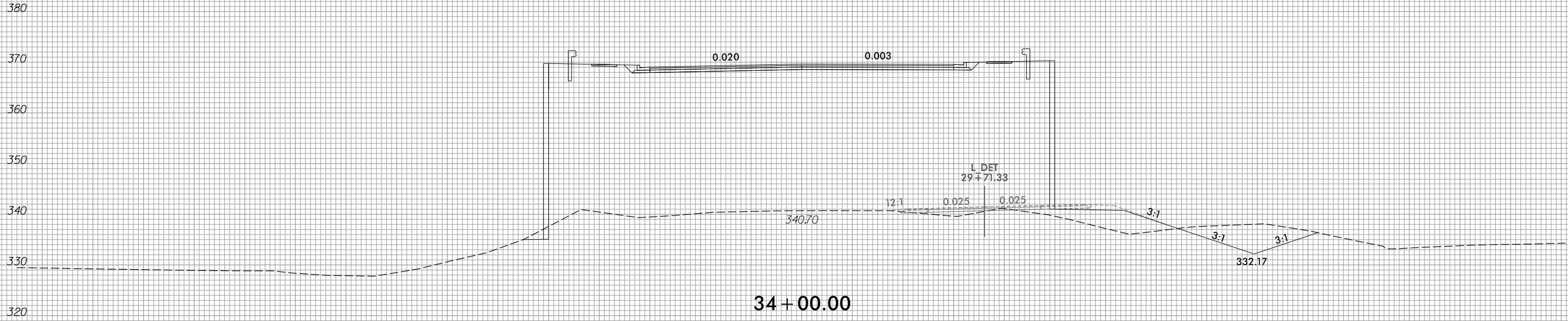
3/7/2025
R:\Roadway\XSC\P5707_Rd\xp1.dgn
Crocket

6/23/16



6/23/16

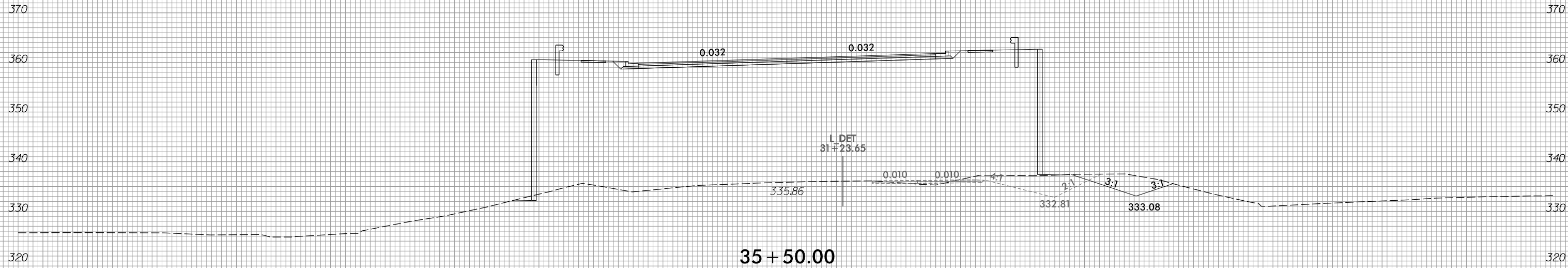
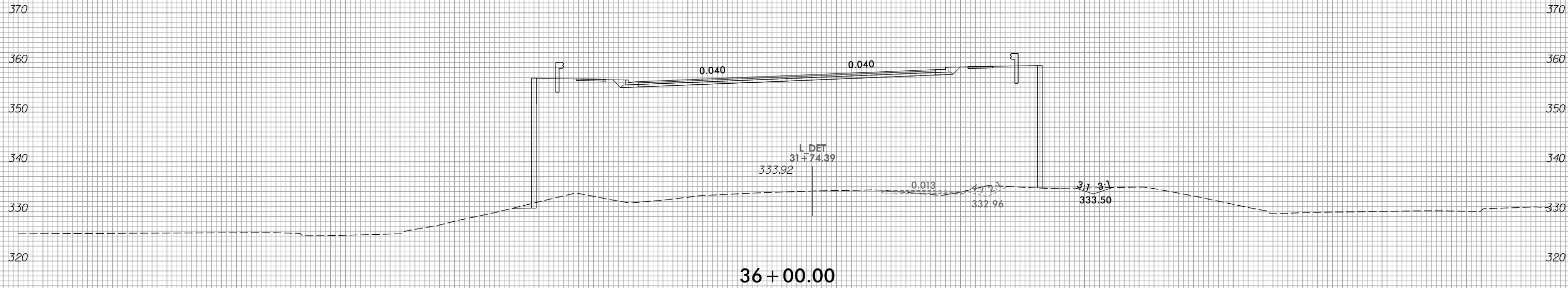
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



6/23/16

	PROJ. REFERENCE NO.	SHEET NO.
	P-5707	X-19

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



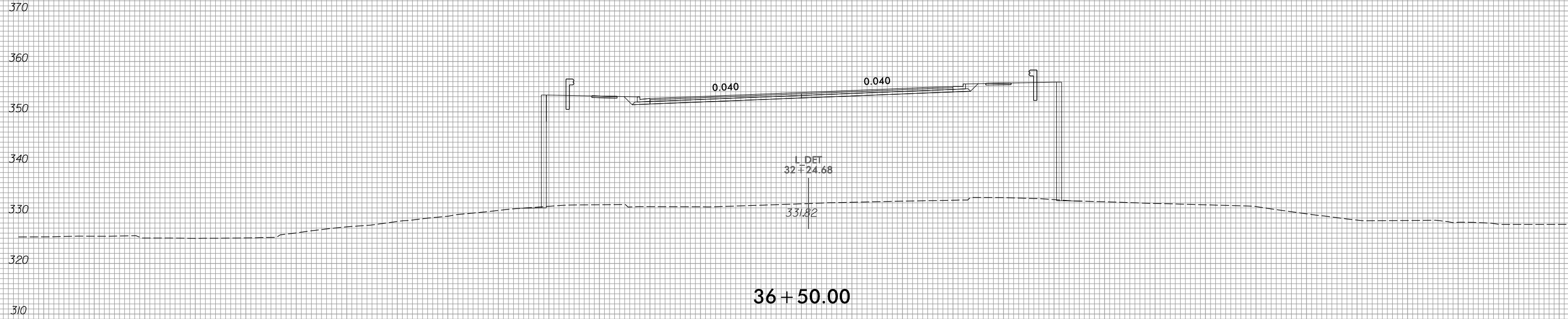
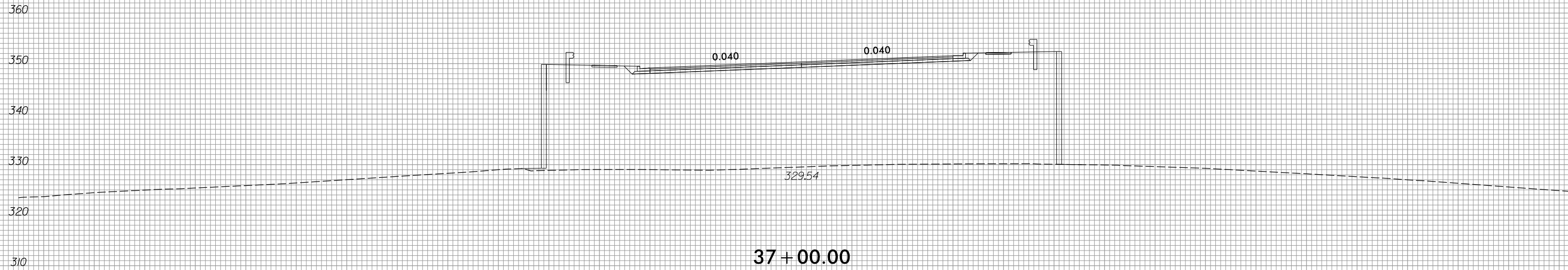
— / —

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-20

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

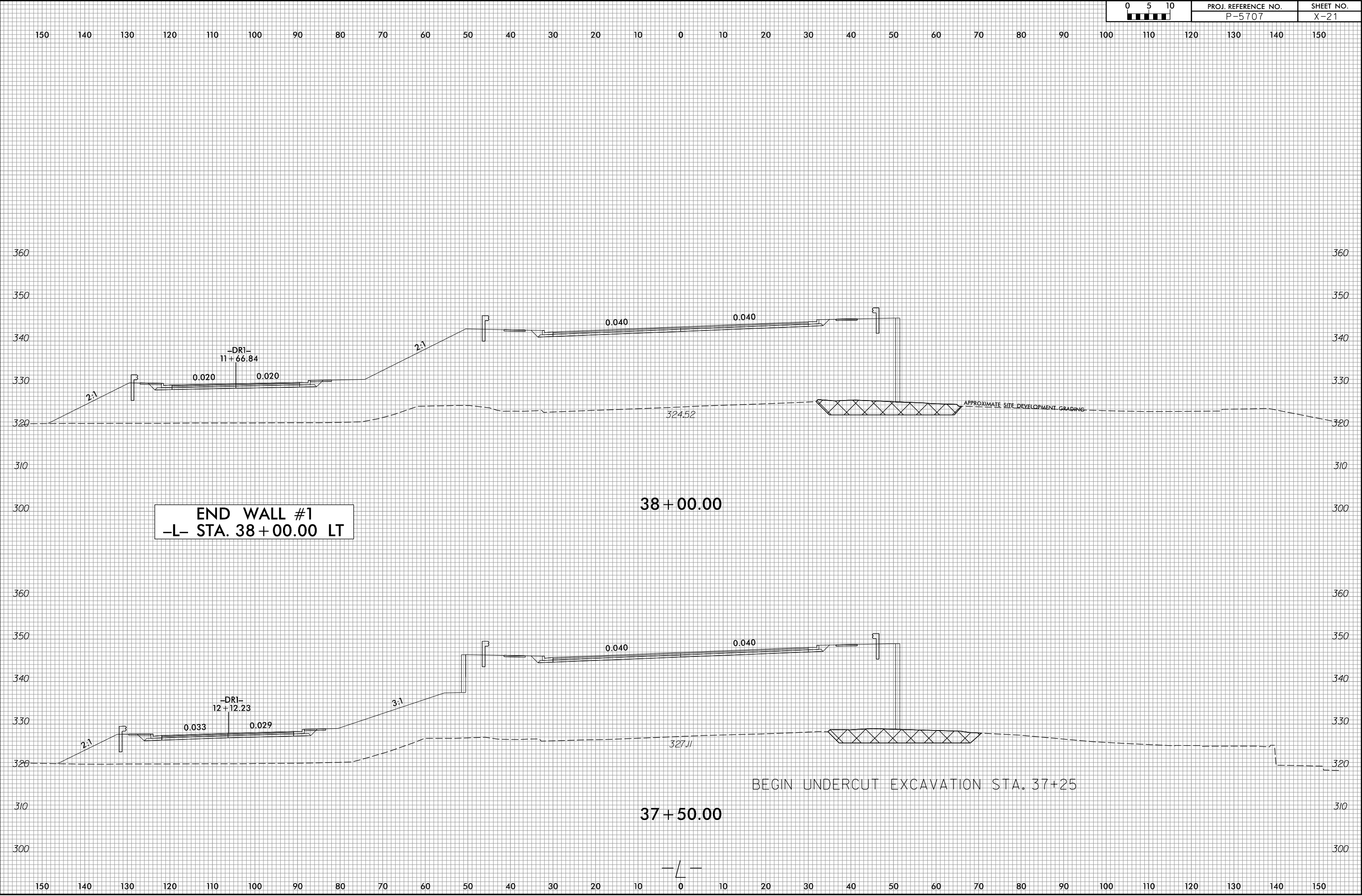


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16



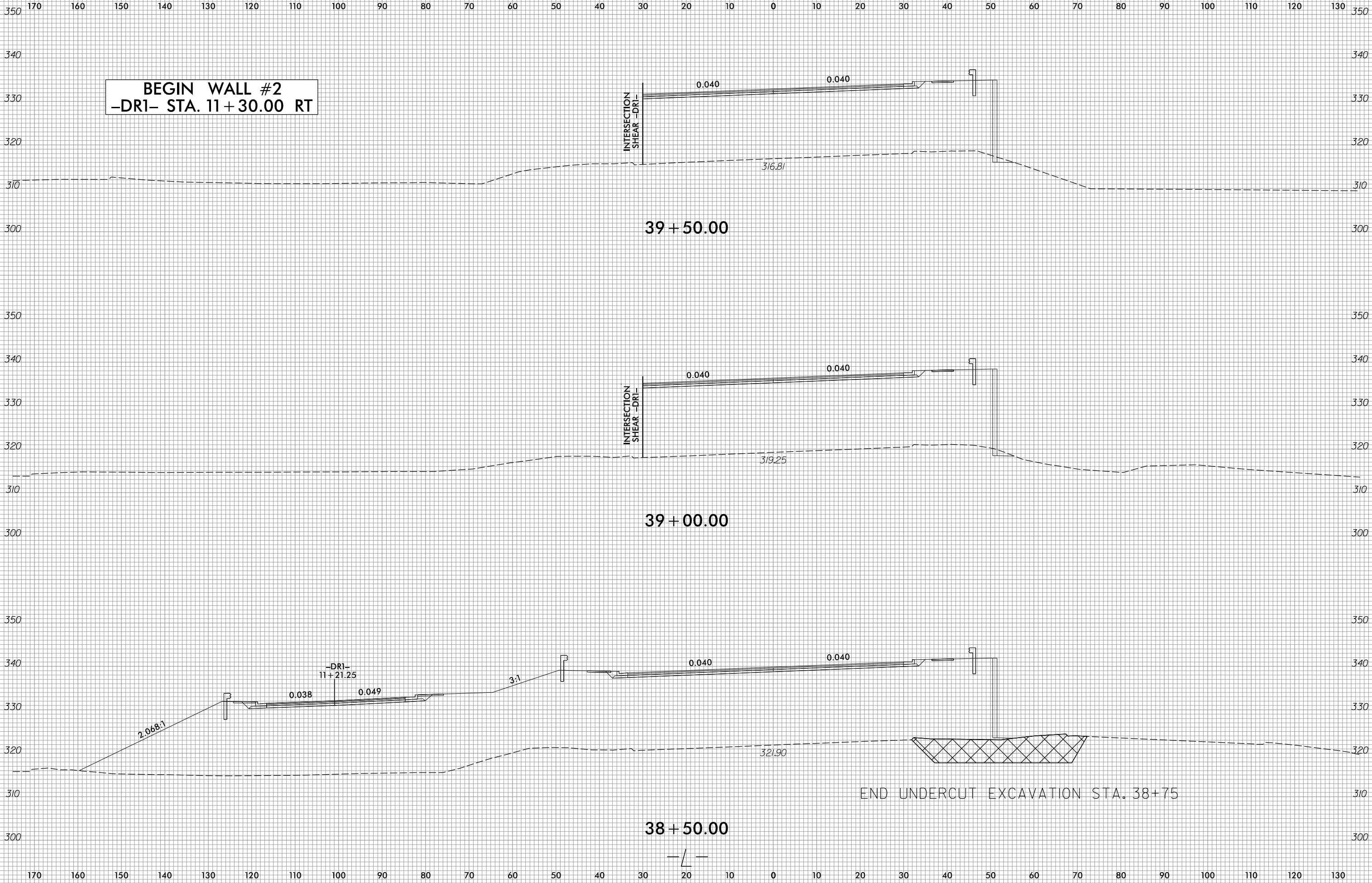
PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-21



6/23/16



PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-22

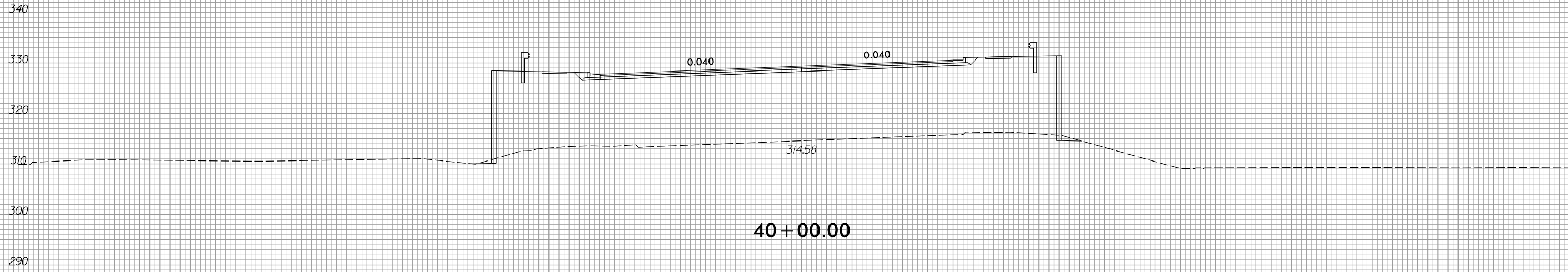
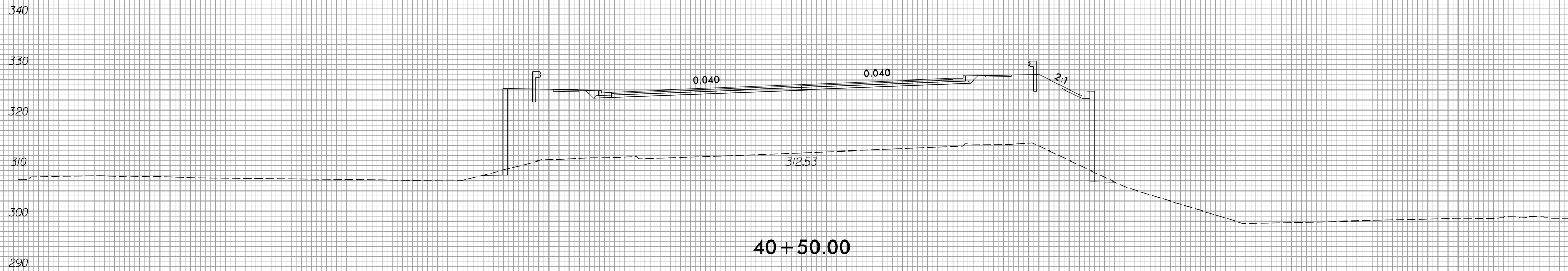
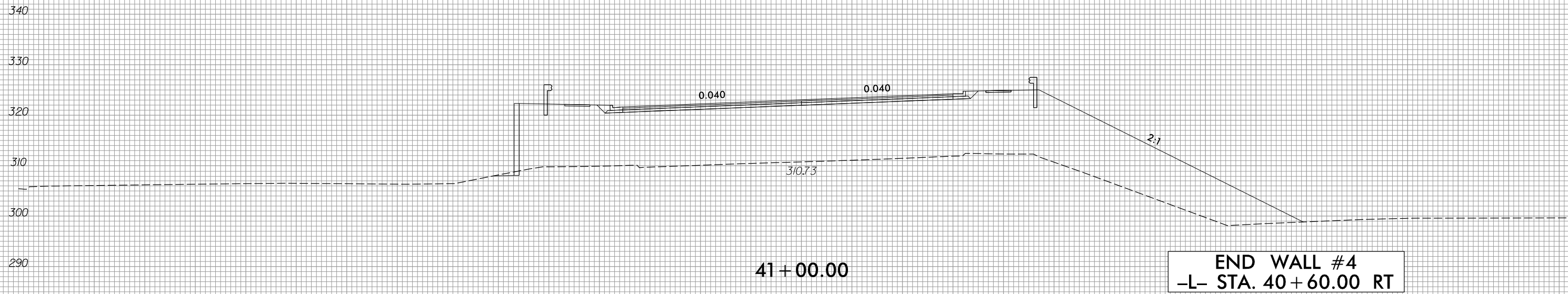


6/23/16



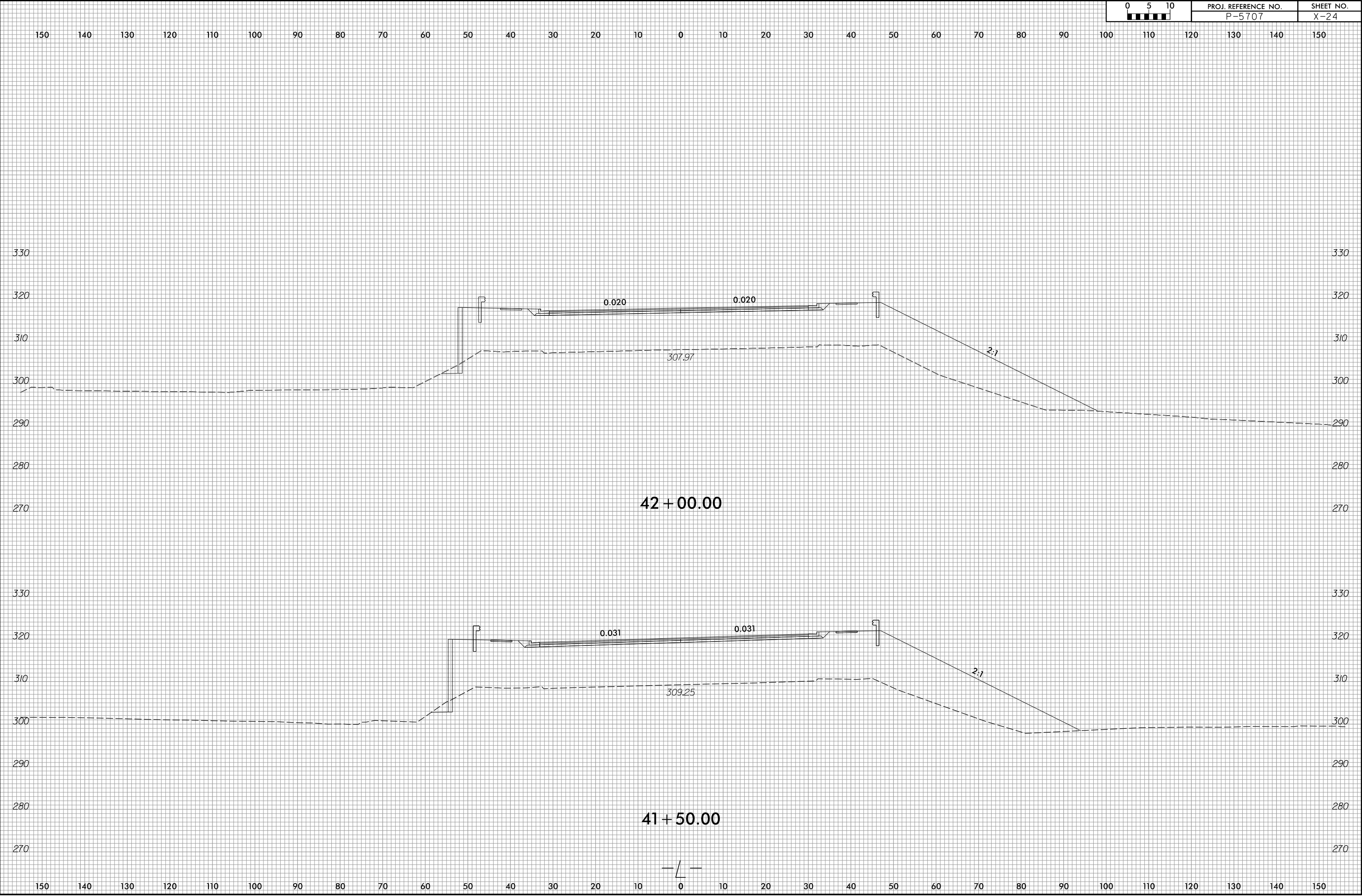
PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-23

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

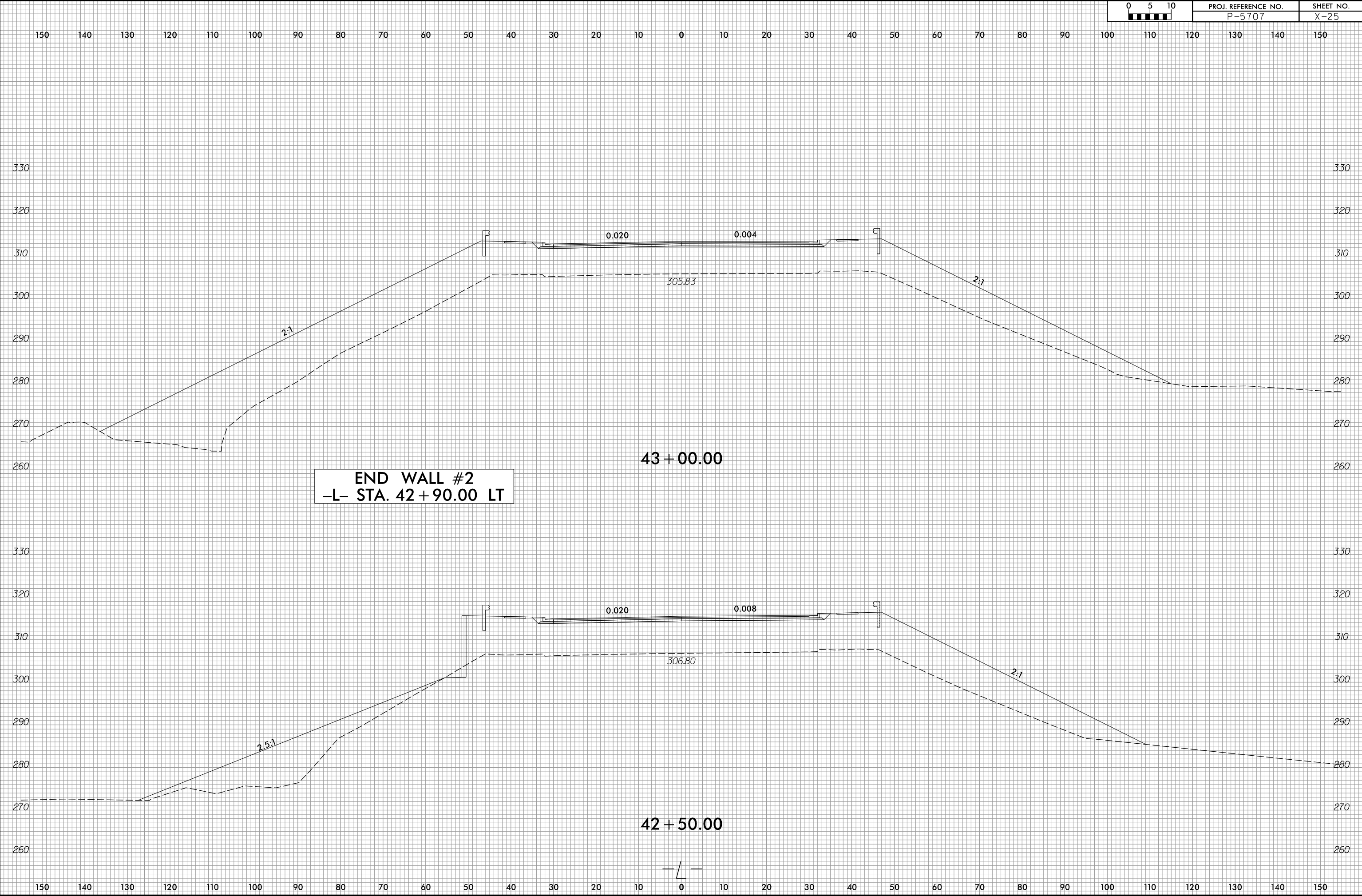
	PROJ. REFERENCE NO.	SHEET NO.
	P-5707	X-24



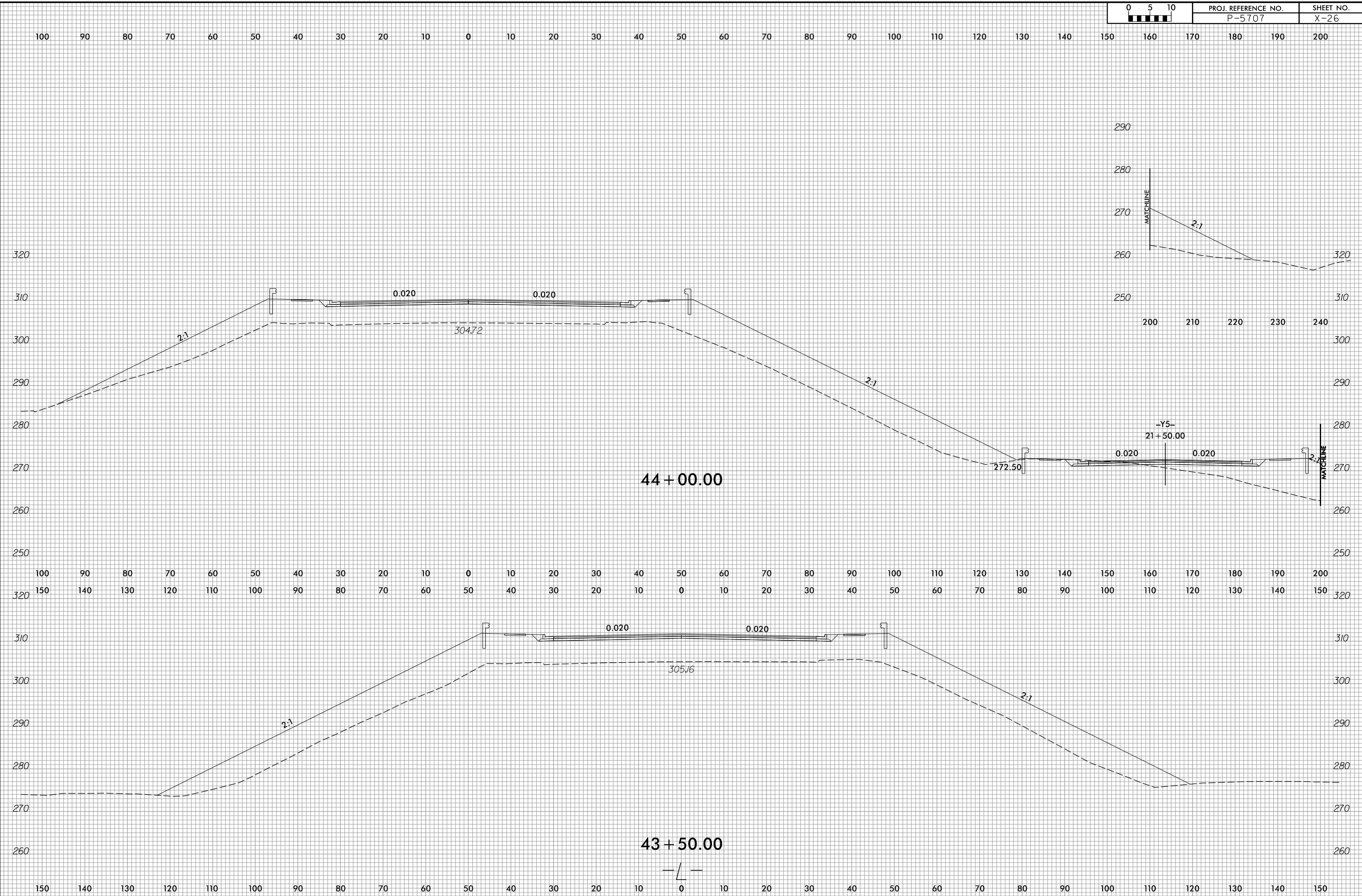
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-25



3/7/2025
R:\Roadway\XSC\5707\Rel\xp1.L.dgn
Crocket

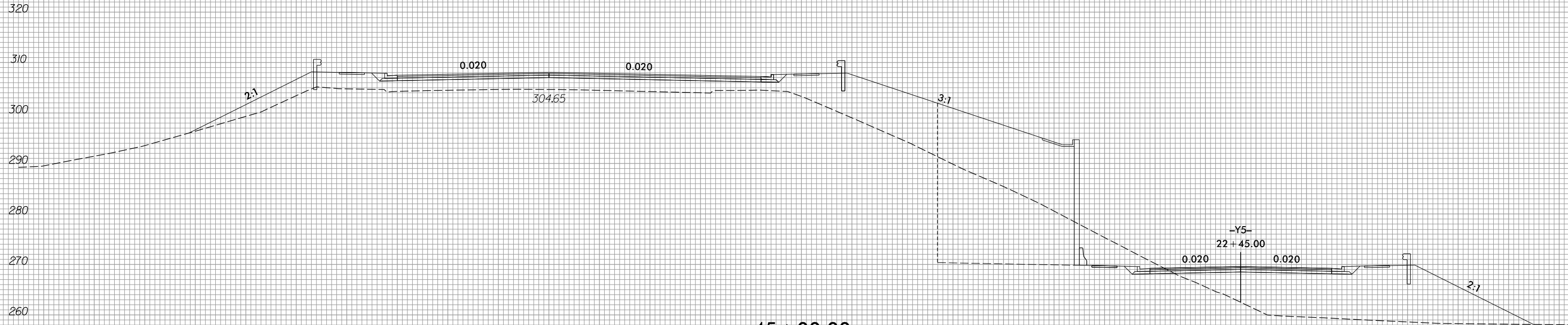


6/23/16

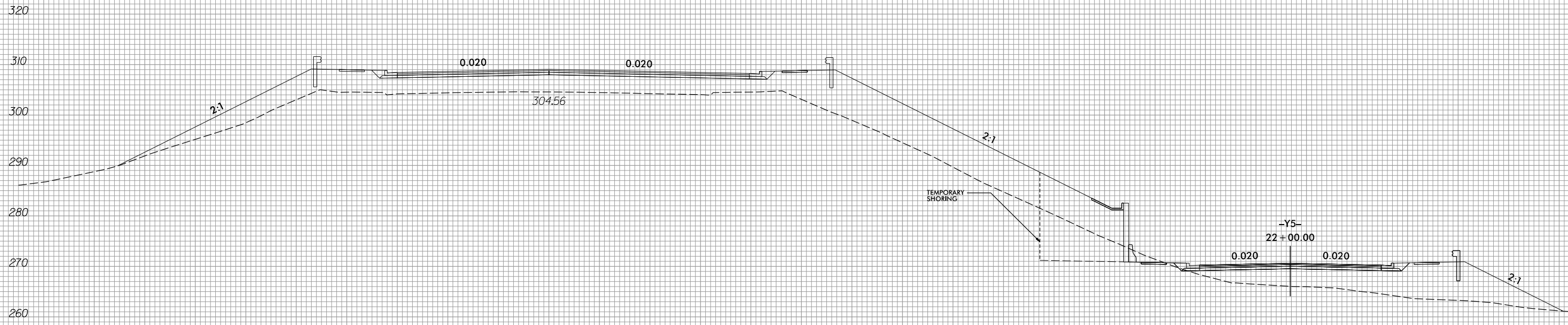


PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-27

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200



45 + 00.00



44 + 50.00

BEGIN WALL #3
-Y5- STA. 21 + 60.00 LT

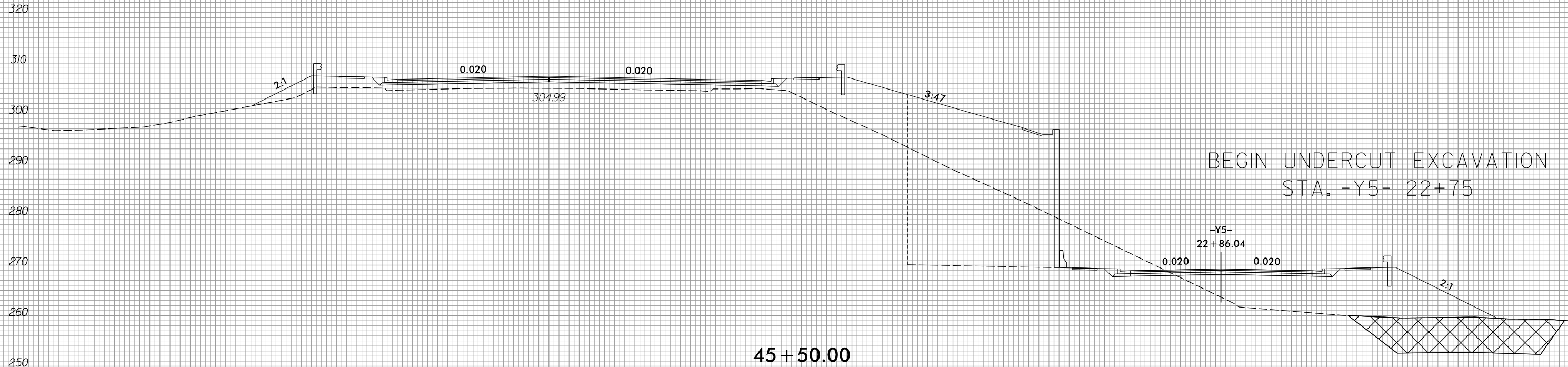
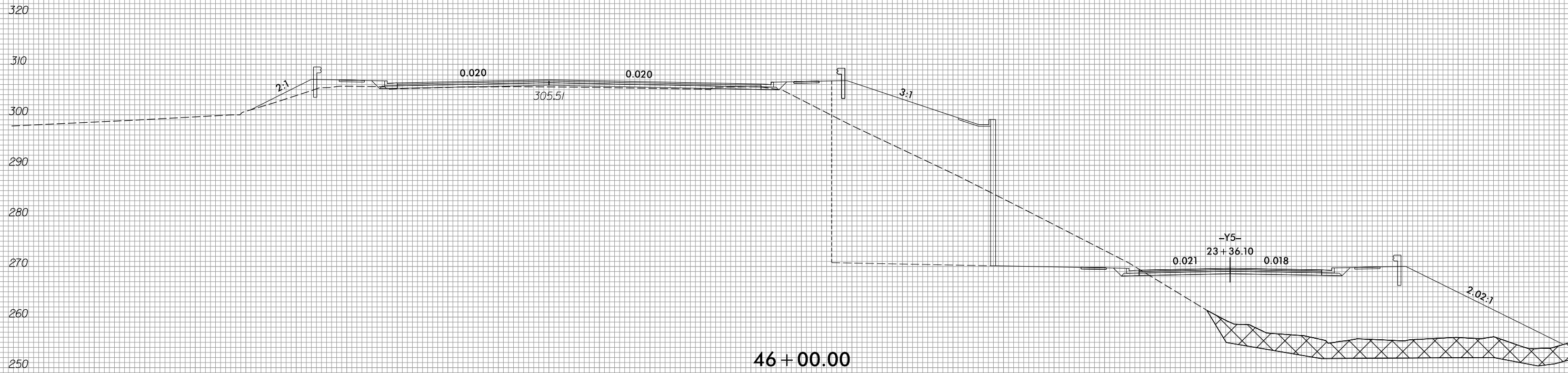


6/23/16

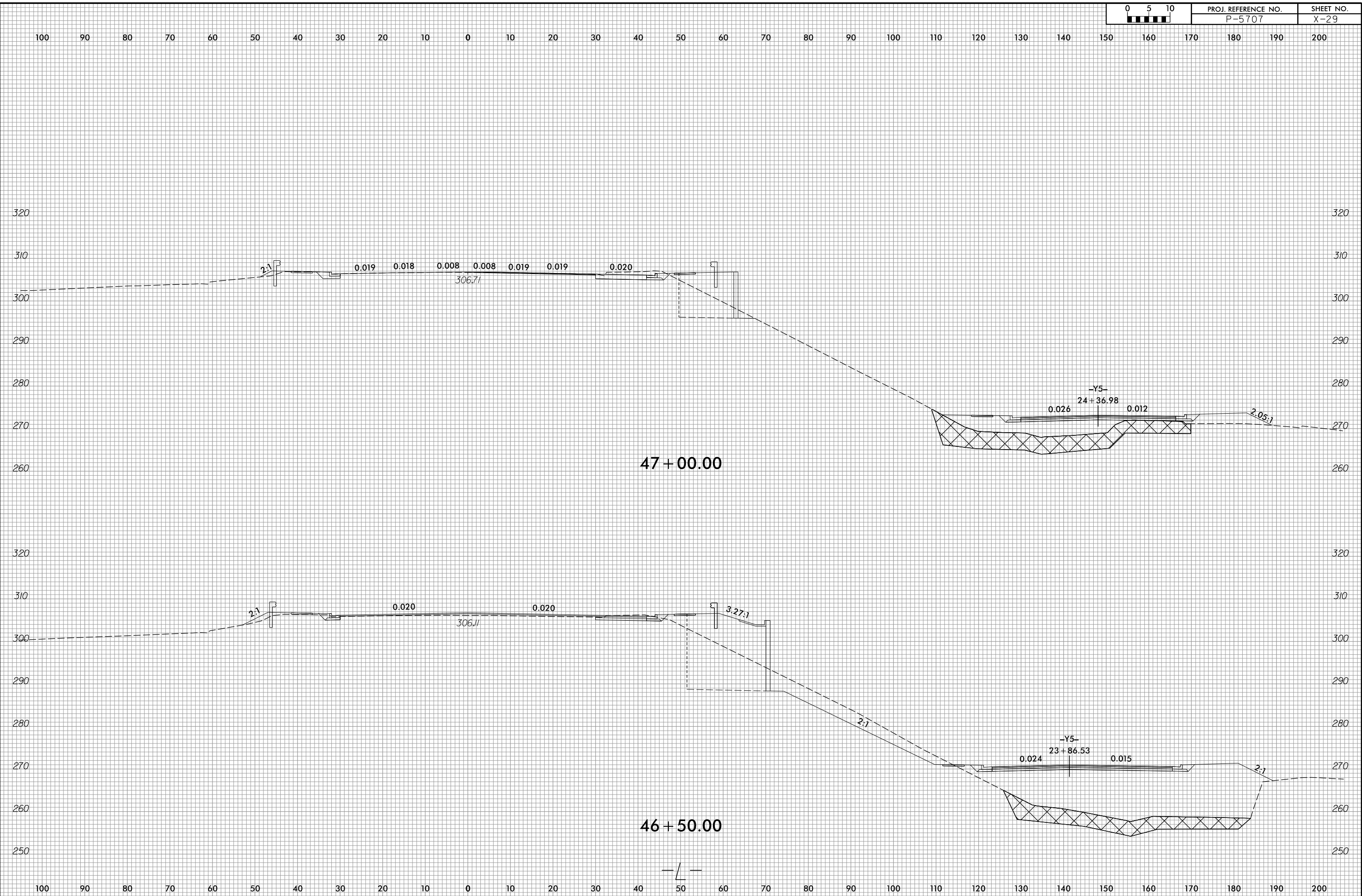


PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-28

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200



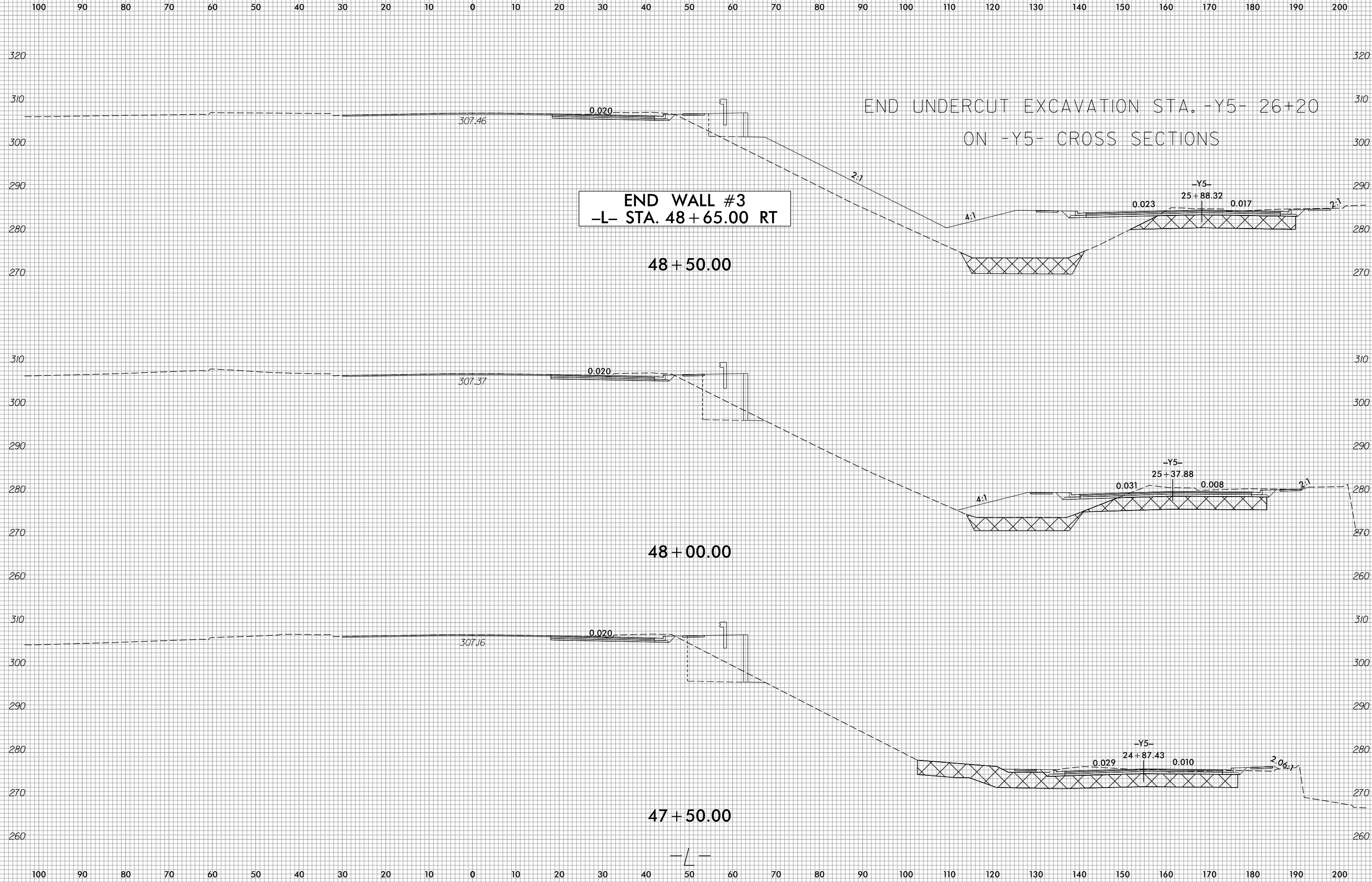
100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200



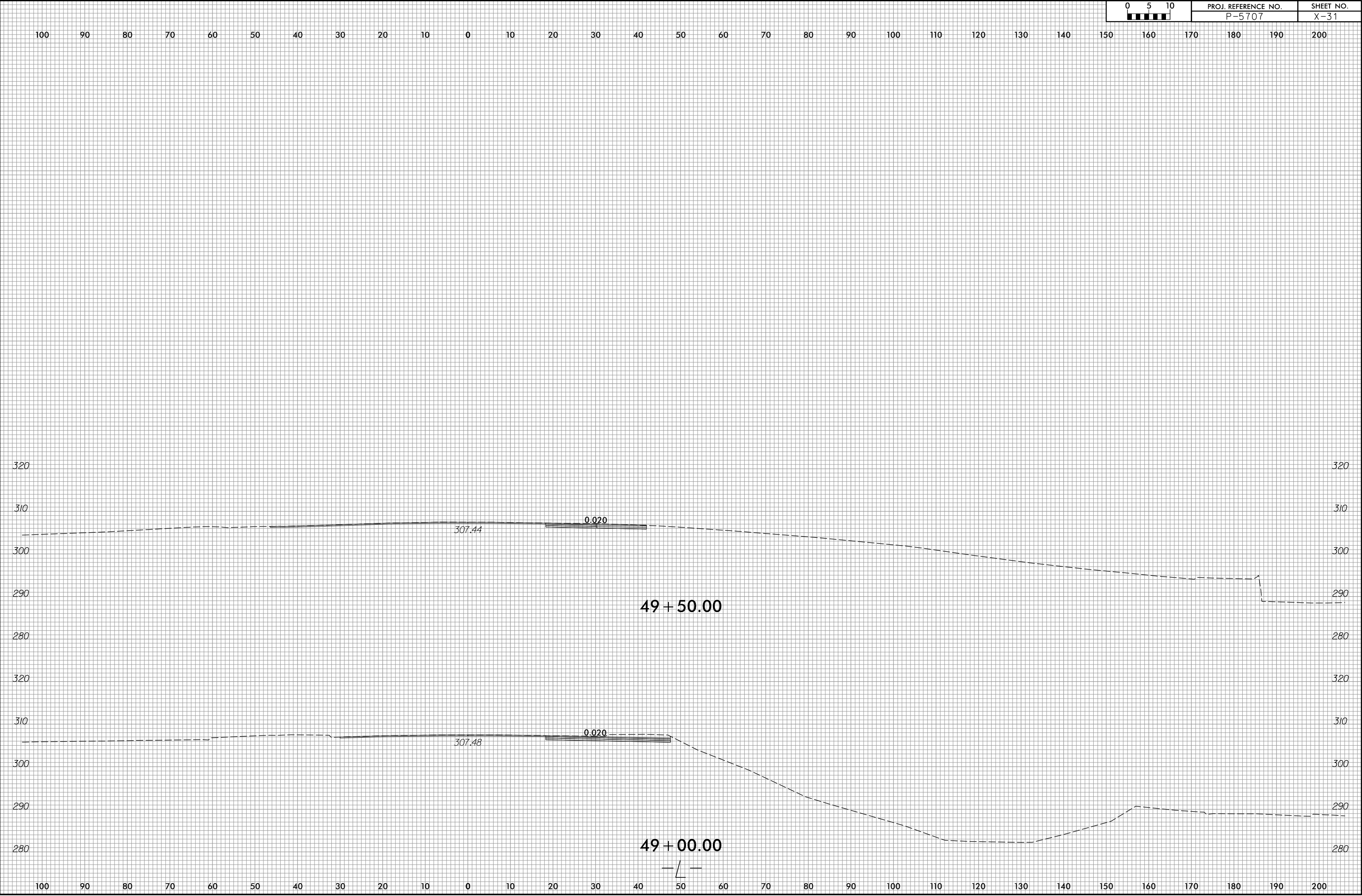
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-30

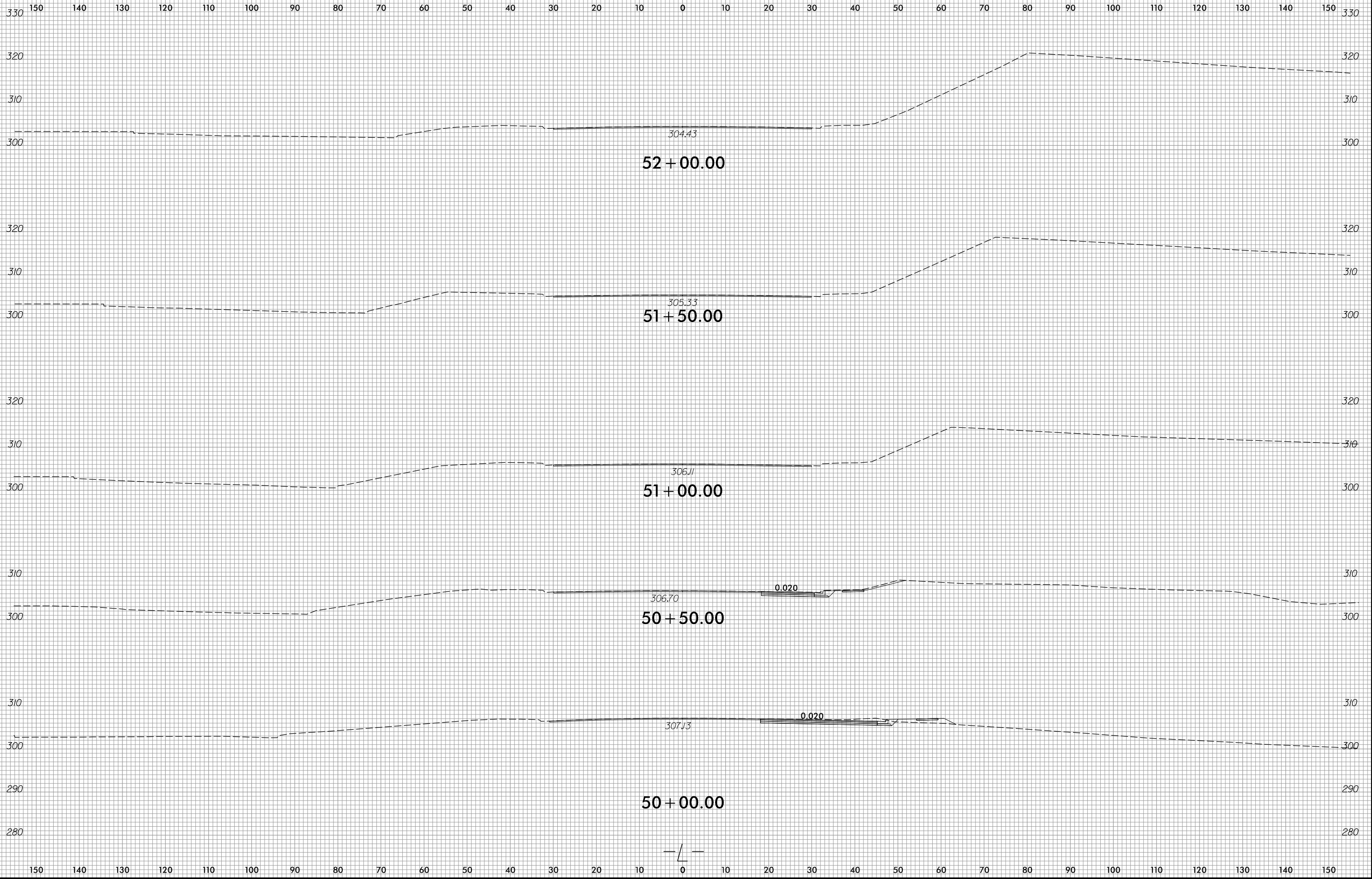


6/23/16



6/23/16

0510	PROJ. REFERENCE NO.	SHEET NO.
	P-5707	X-32

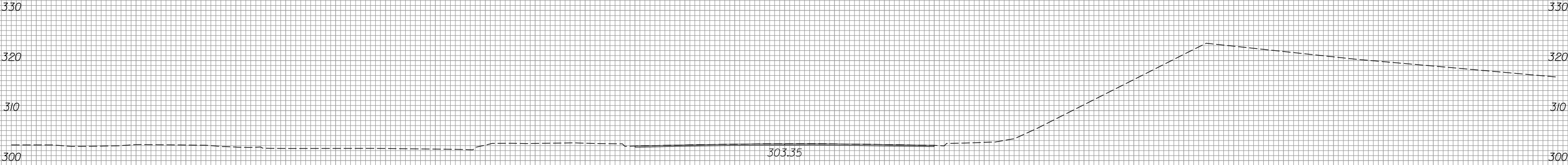


6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	P-5707	X-33

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

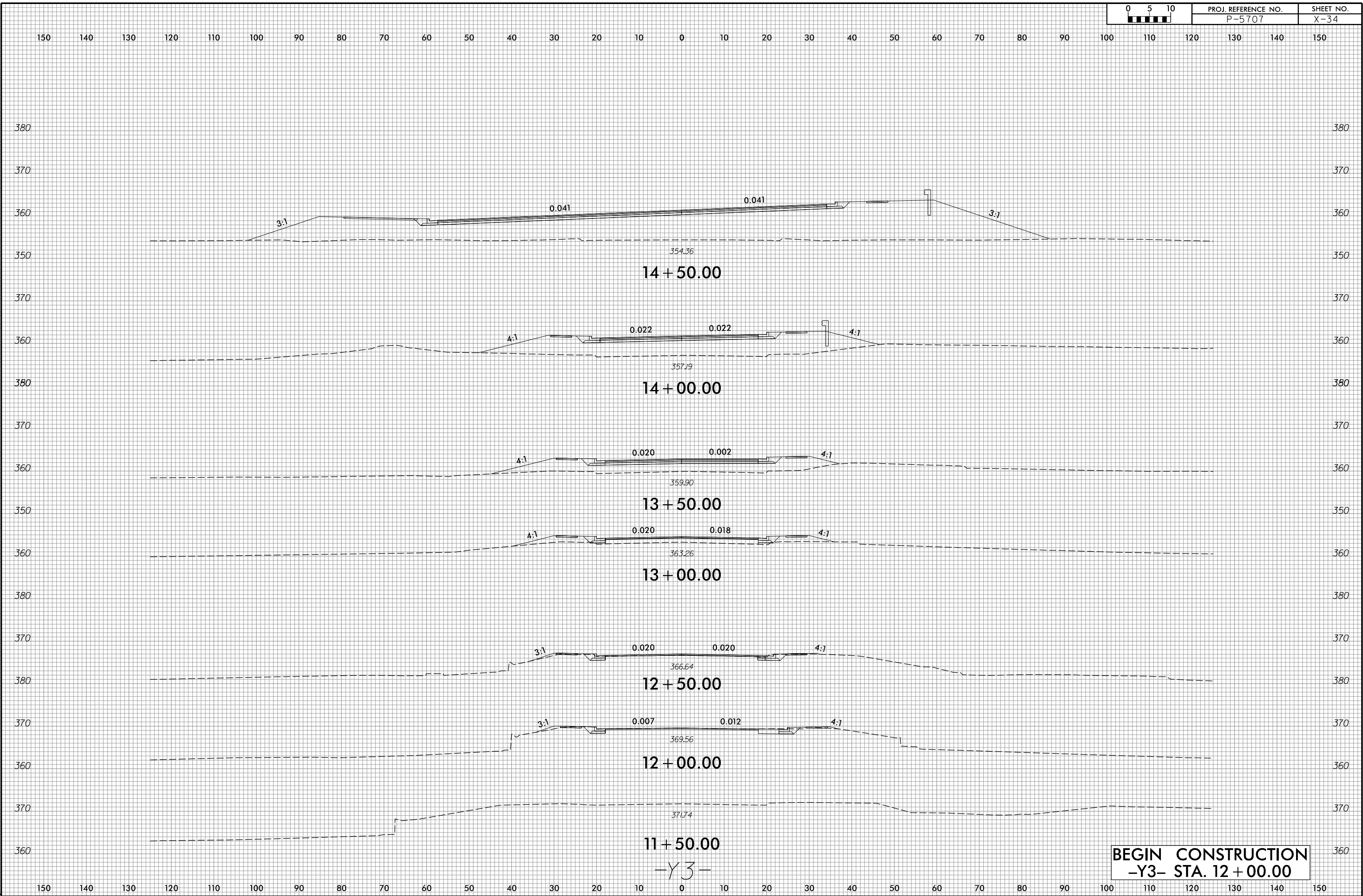
END CONSTRUCTION
-L- STA. 52 + 65.05



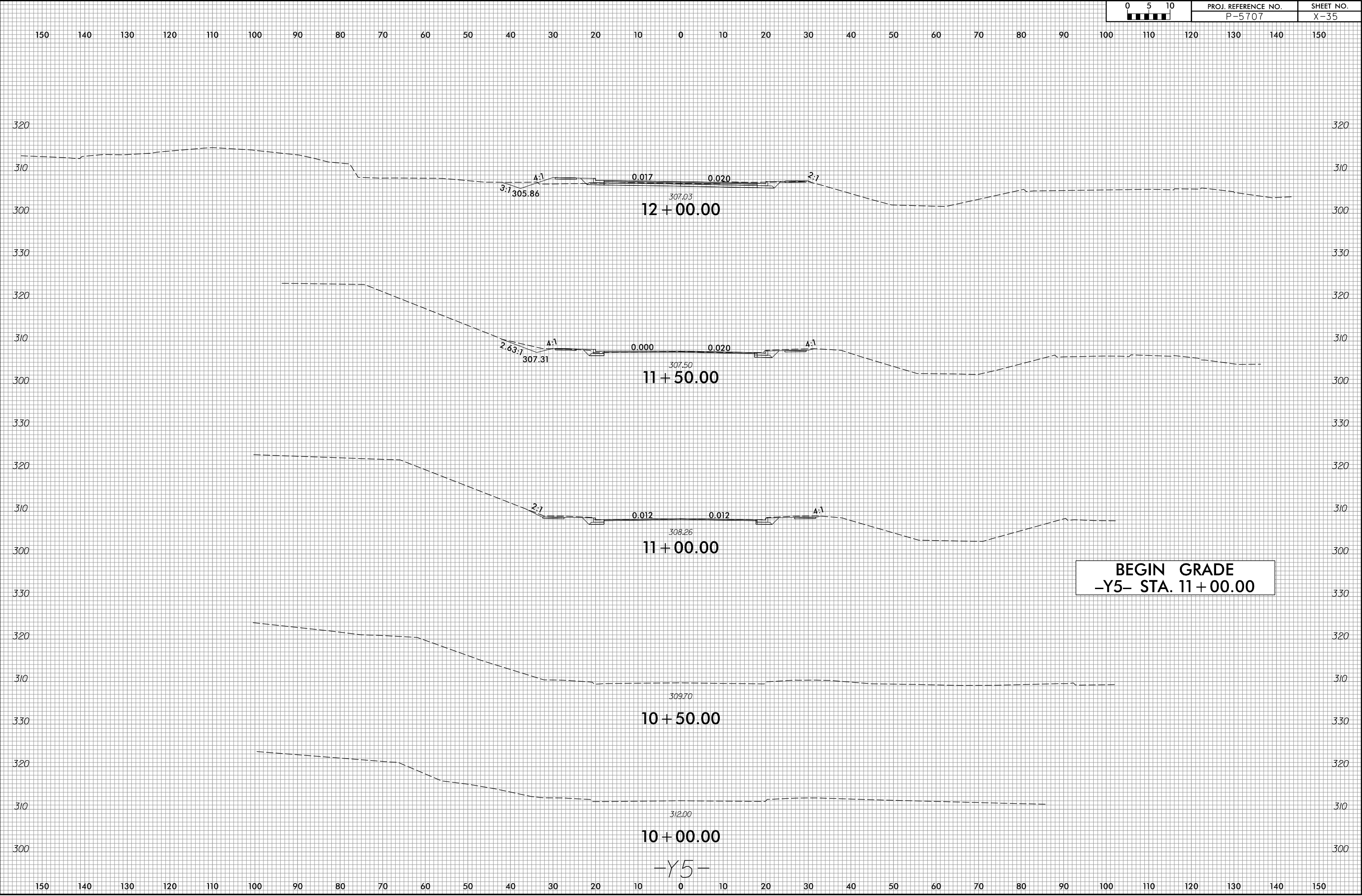
52 + 50.00

— / —

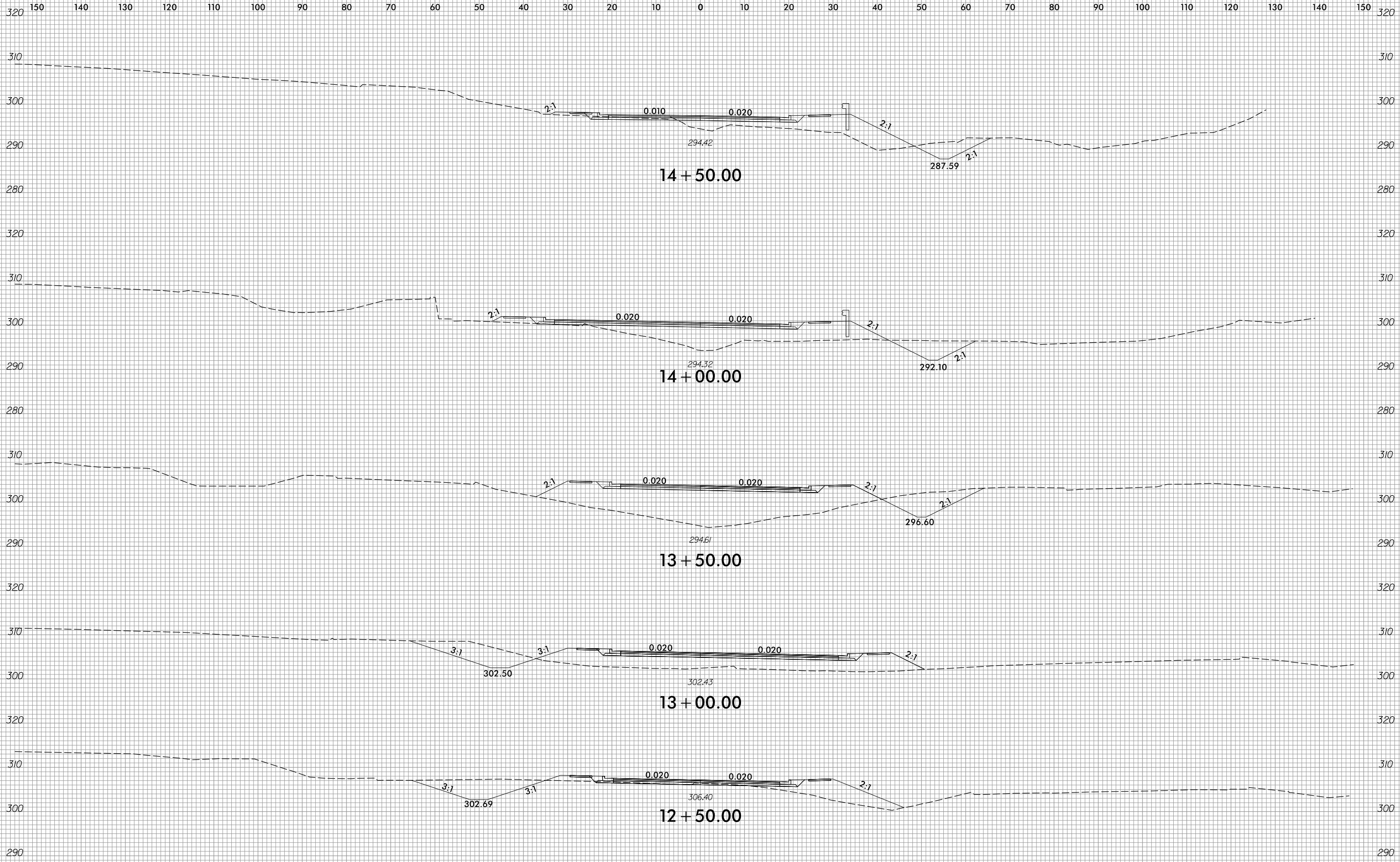
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



6/23/16

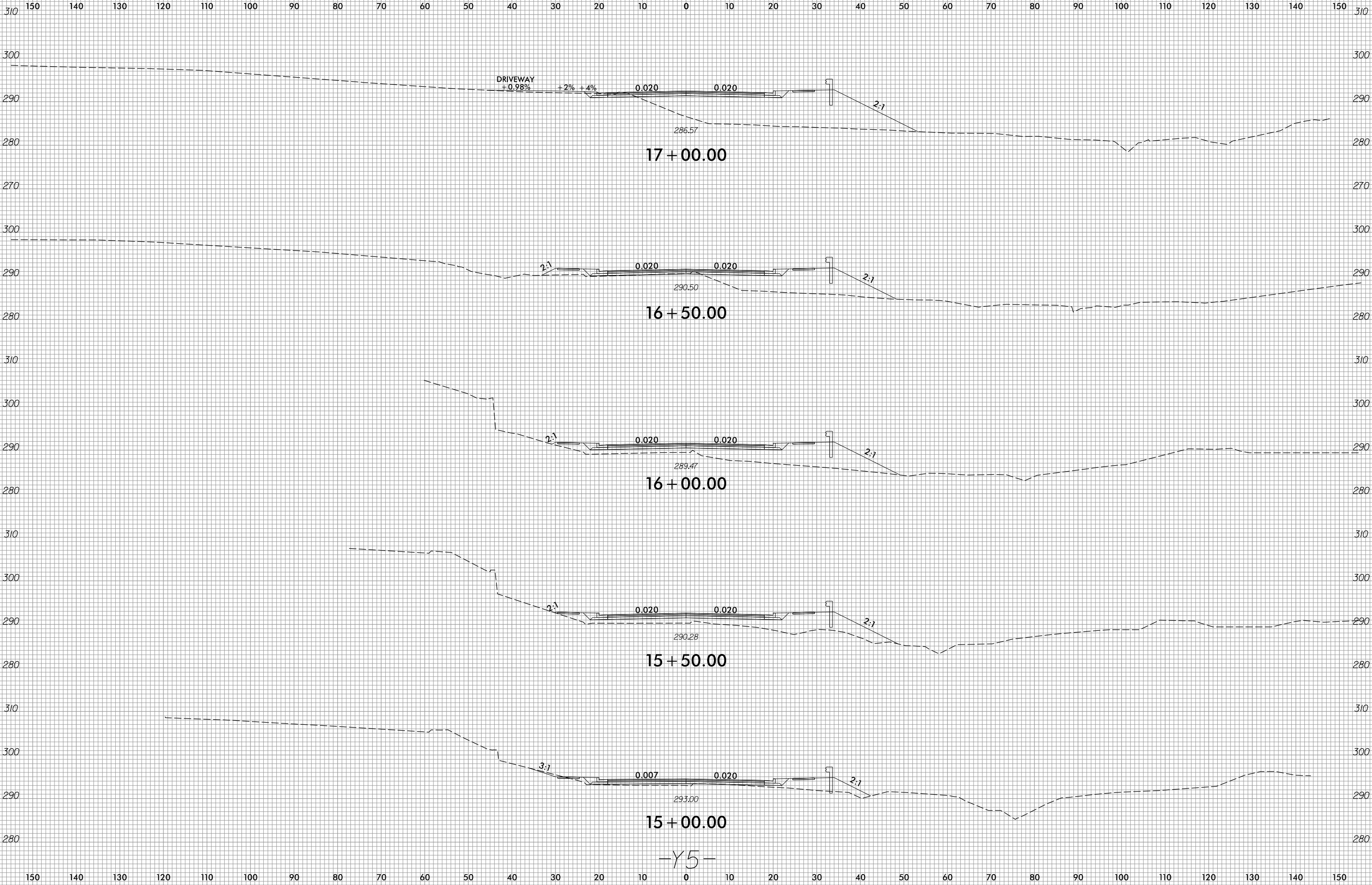


6/23/16

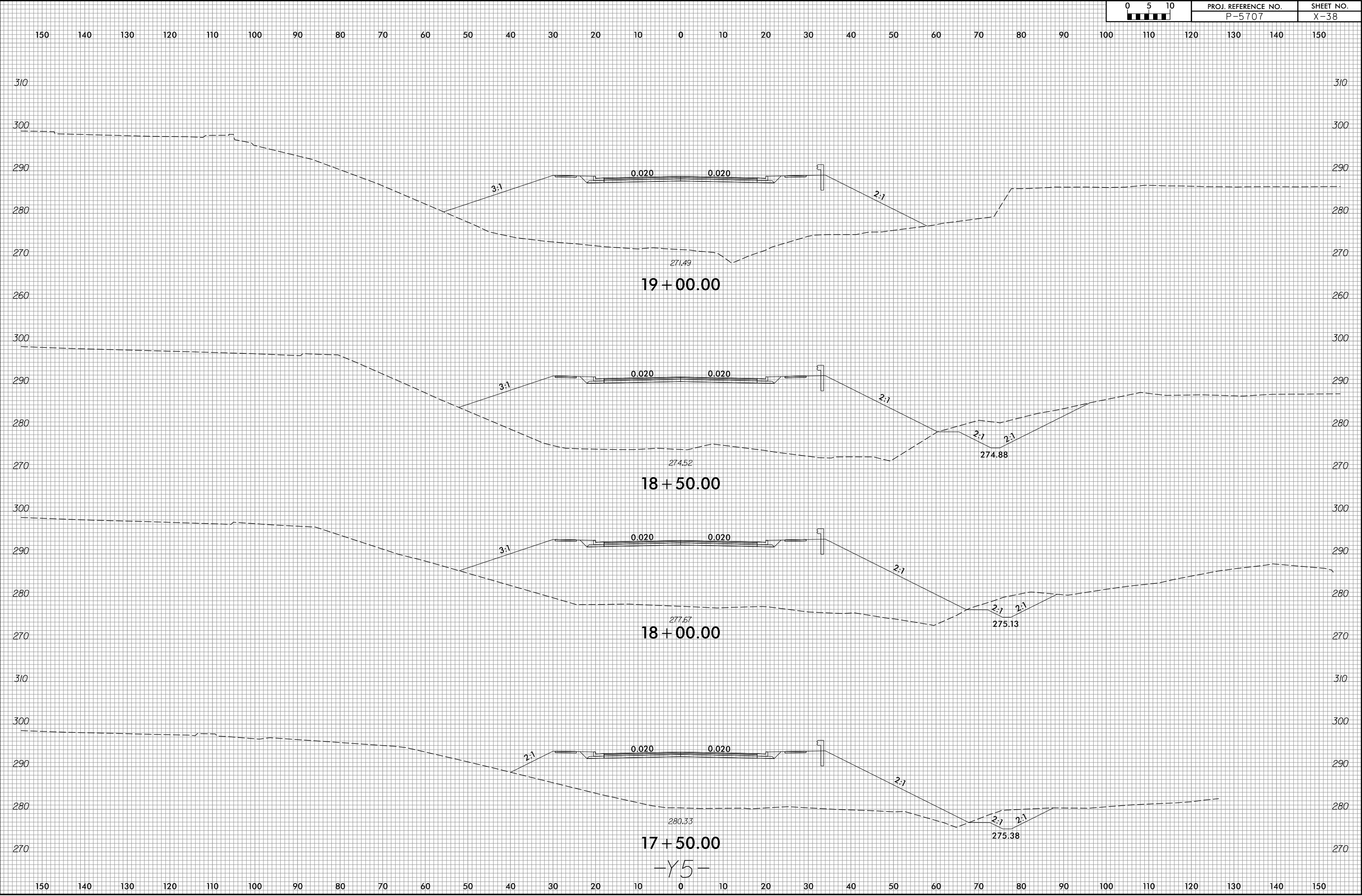


-Y5-

6/23/16



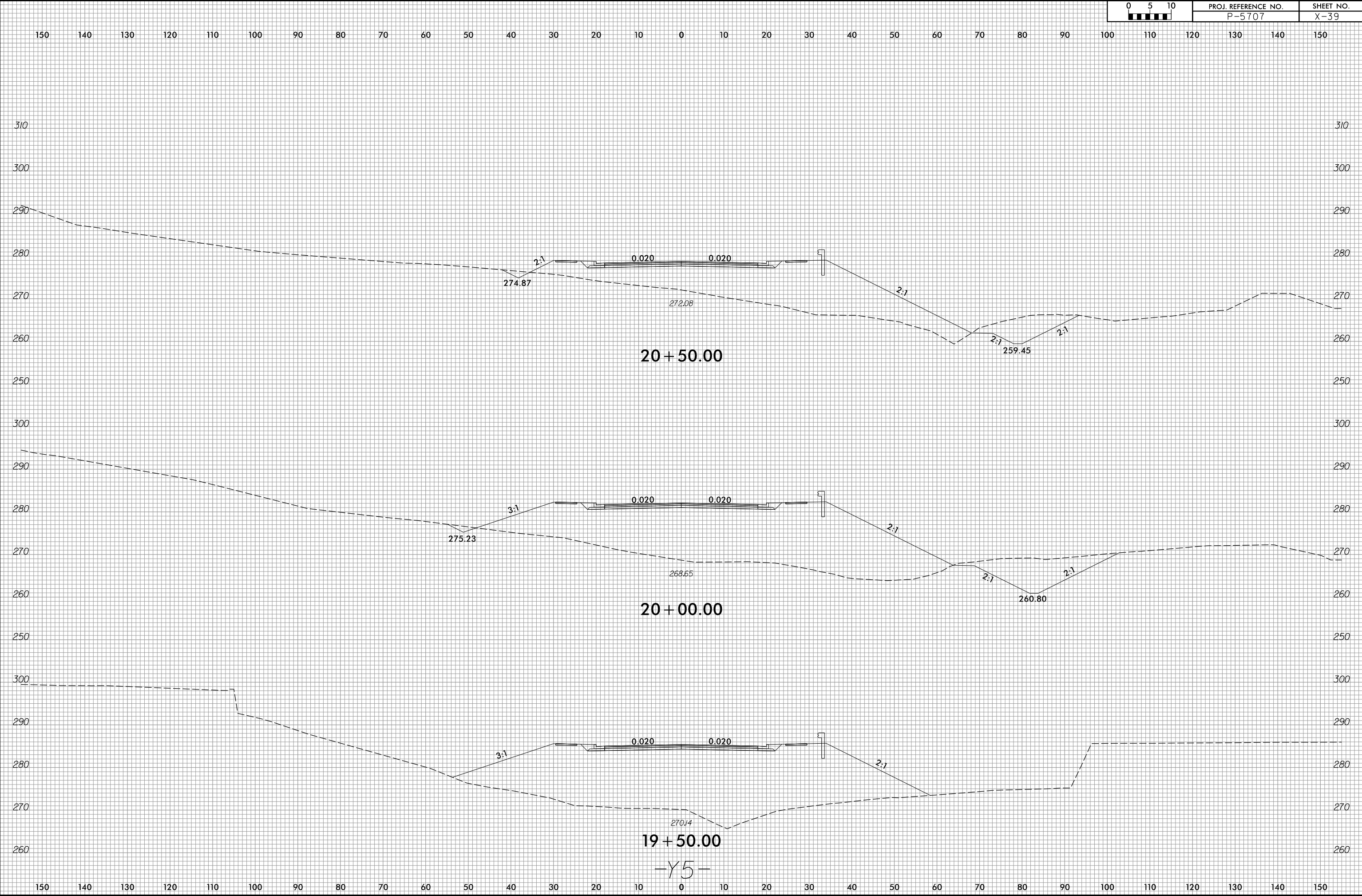
6/23/16



6/23/16



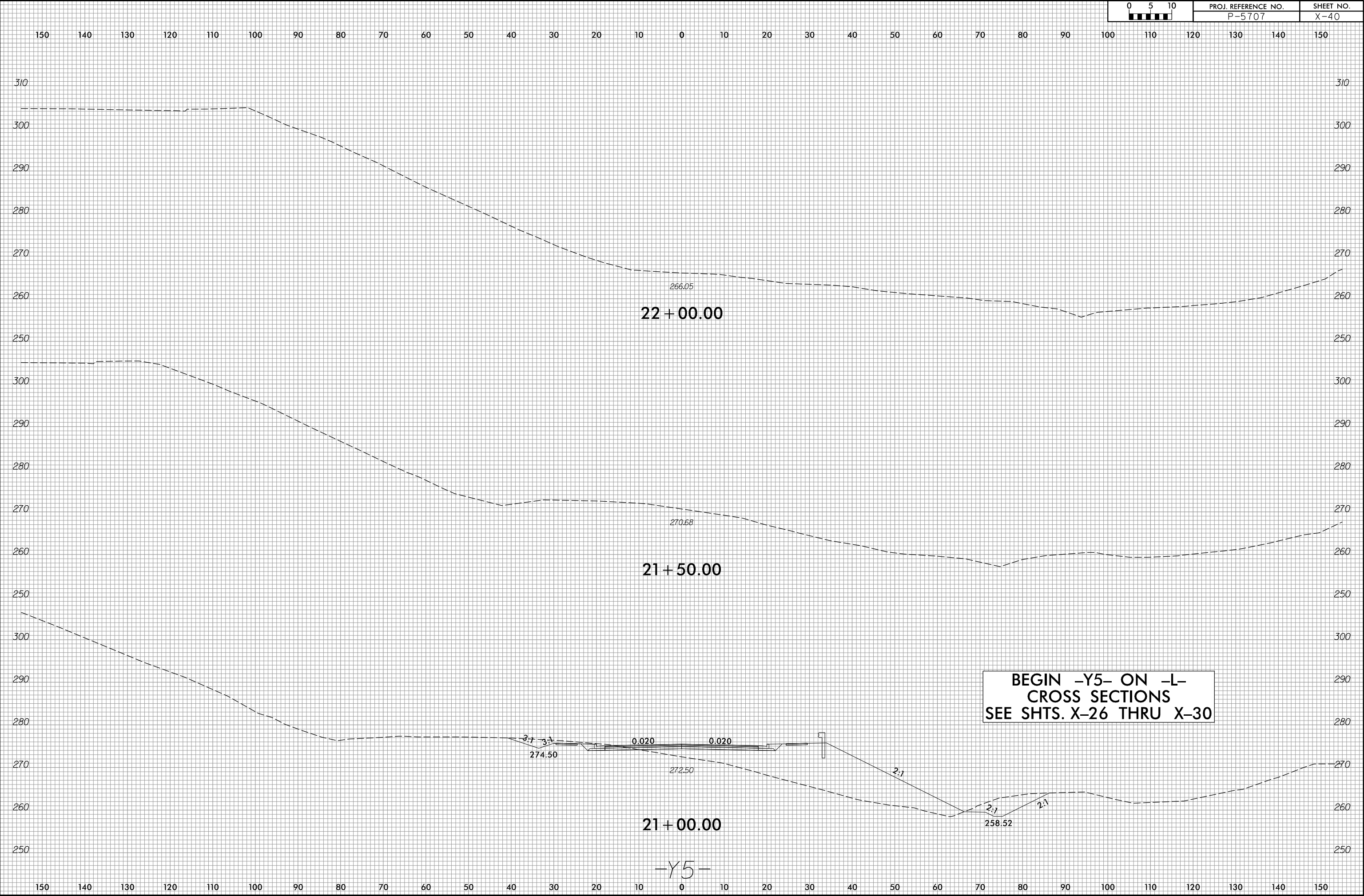
PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-39

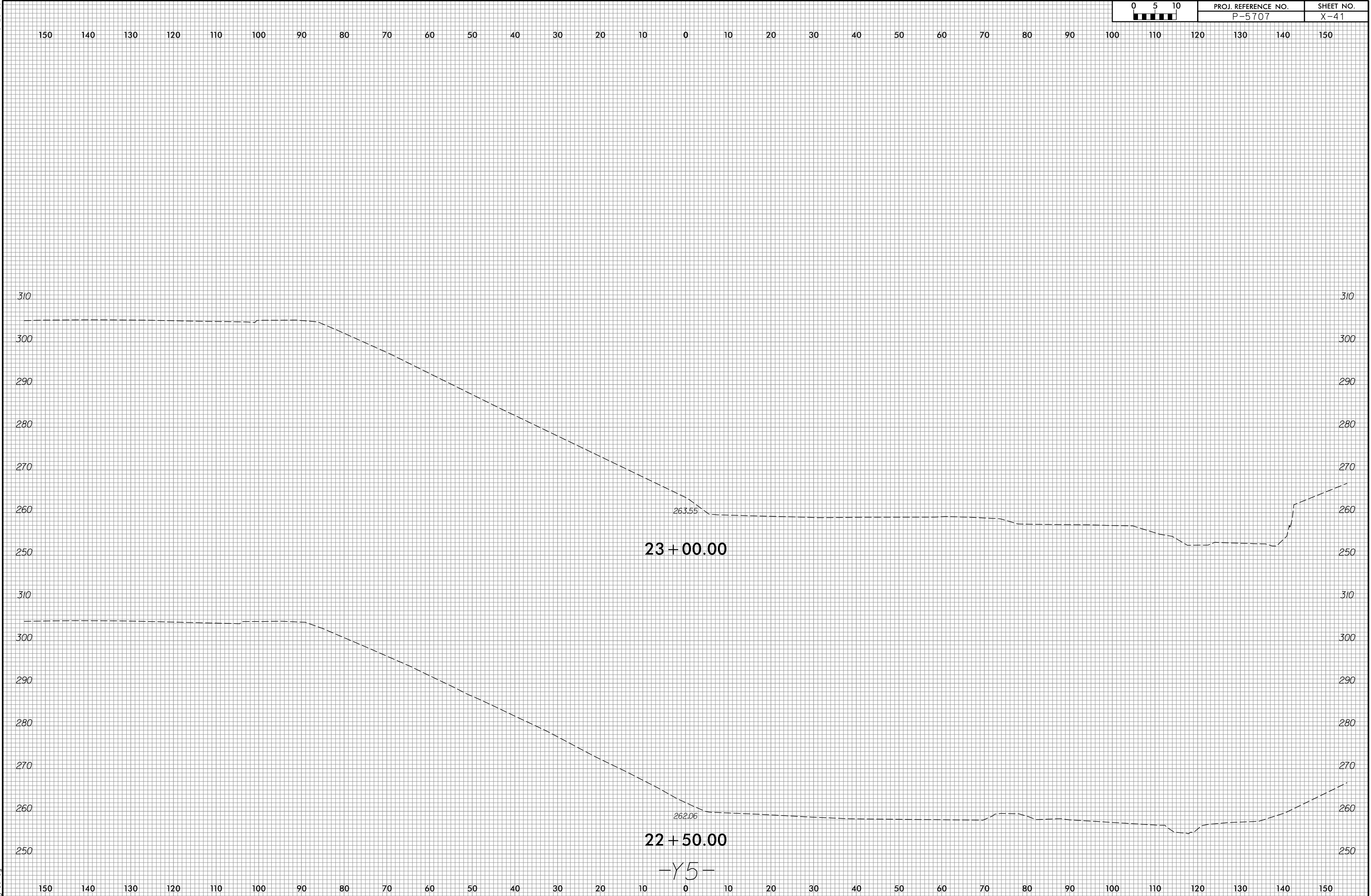


6/23/16



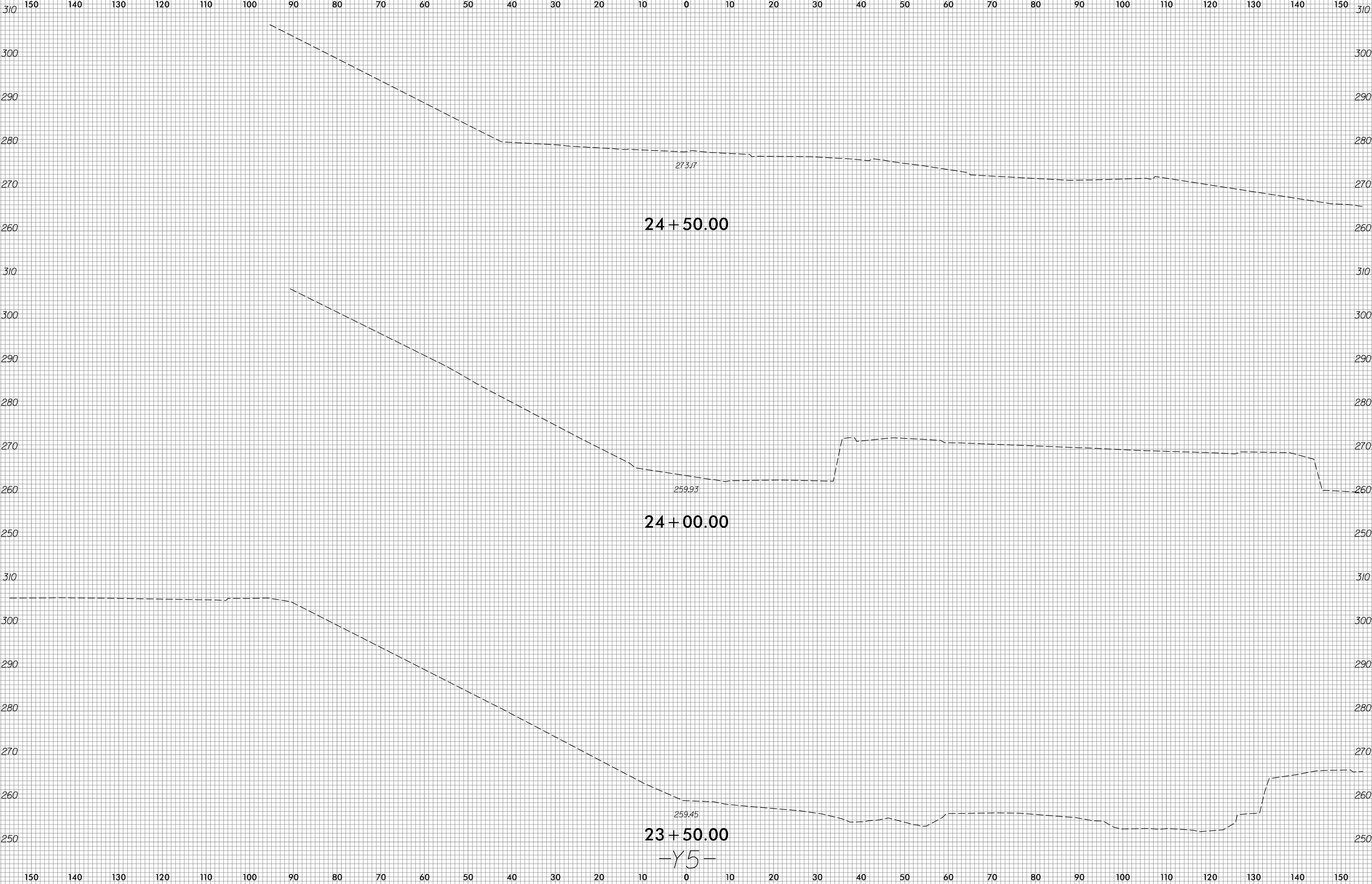
PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-40





6/23/16

0510	PROJ. REFERENCE NO.	SHEET NO.
	P-5707	X-42

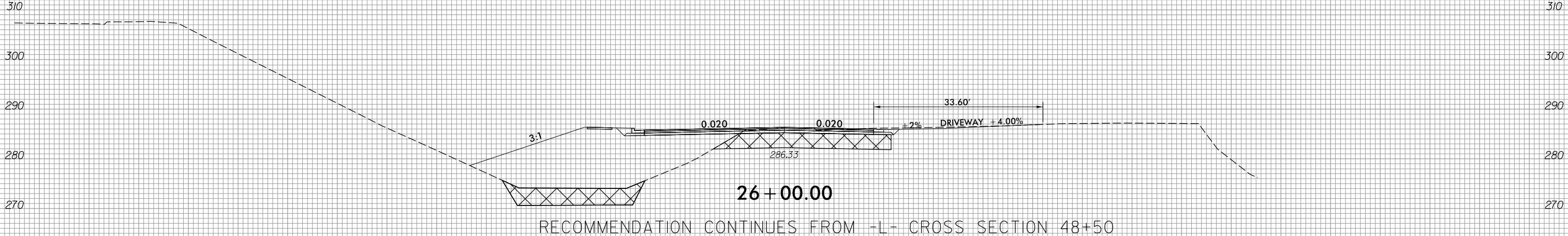


6/23/16

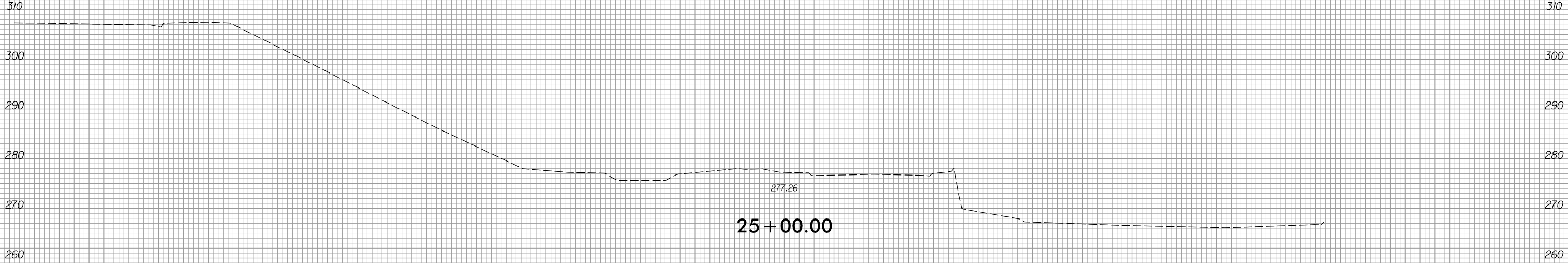
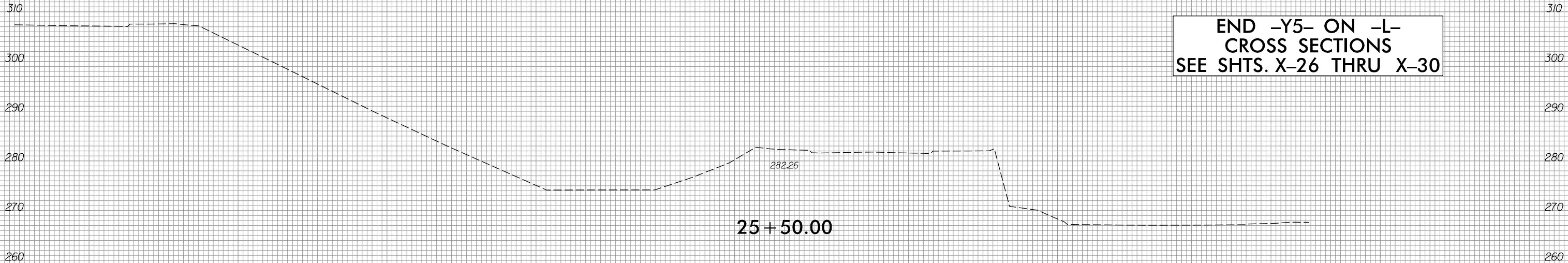


PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-43

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



END -Y5- ON -L-
CROSS SECTIONS
SEE SHTS. X-26 THRU X-30

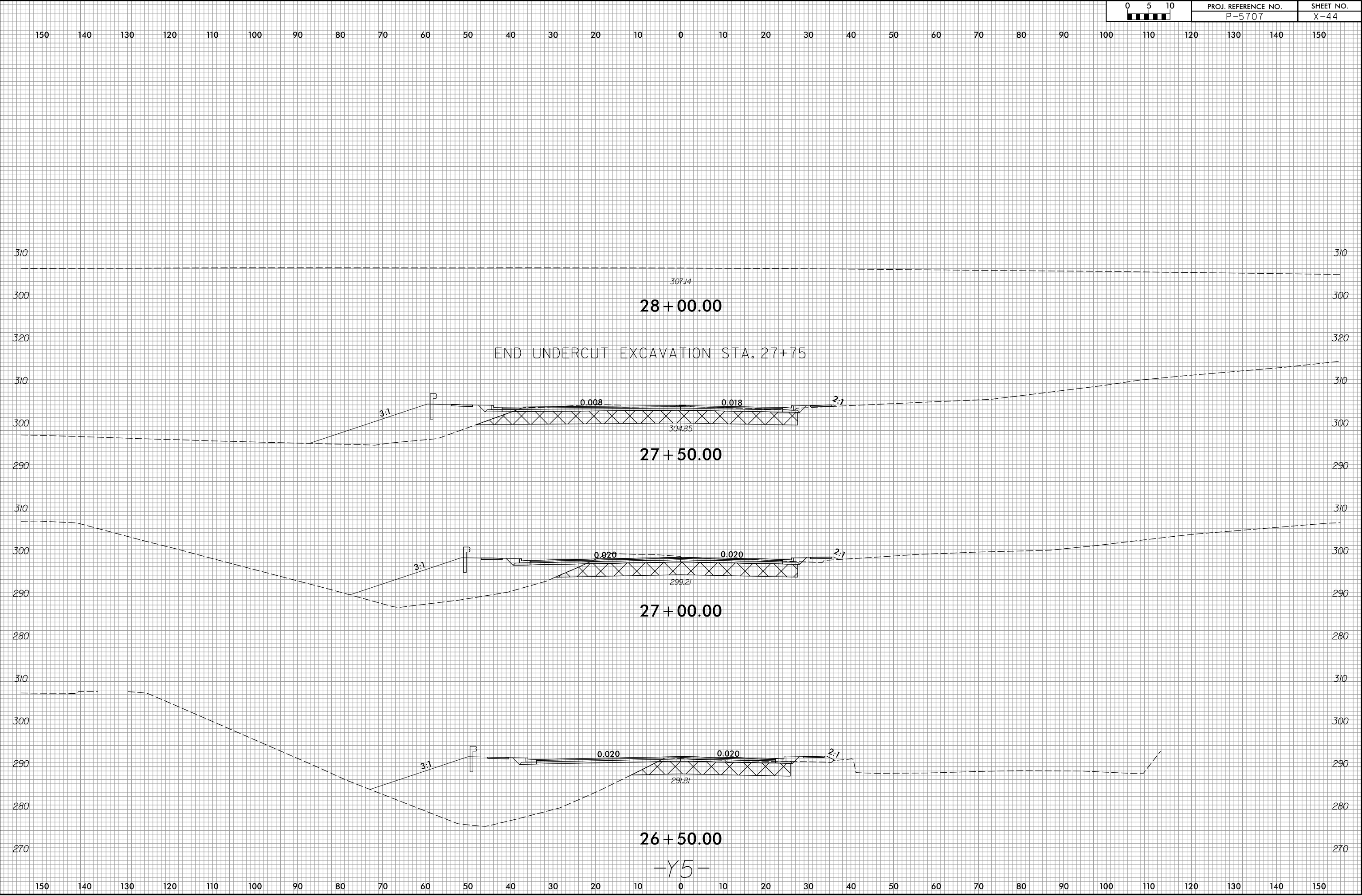


-Y5-

6/23/16

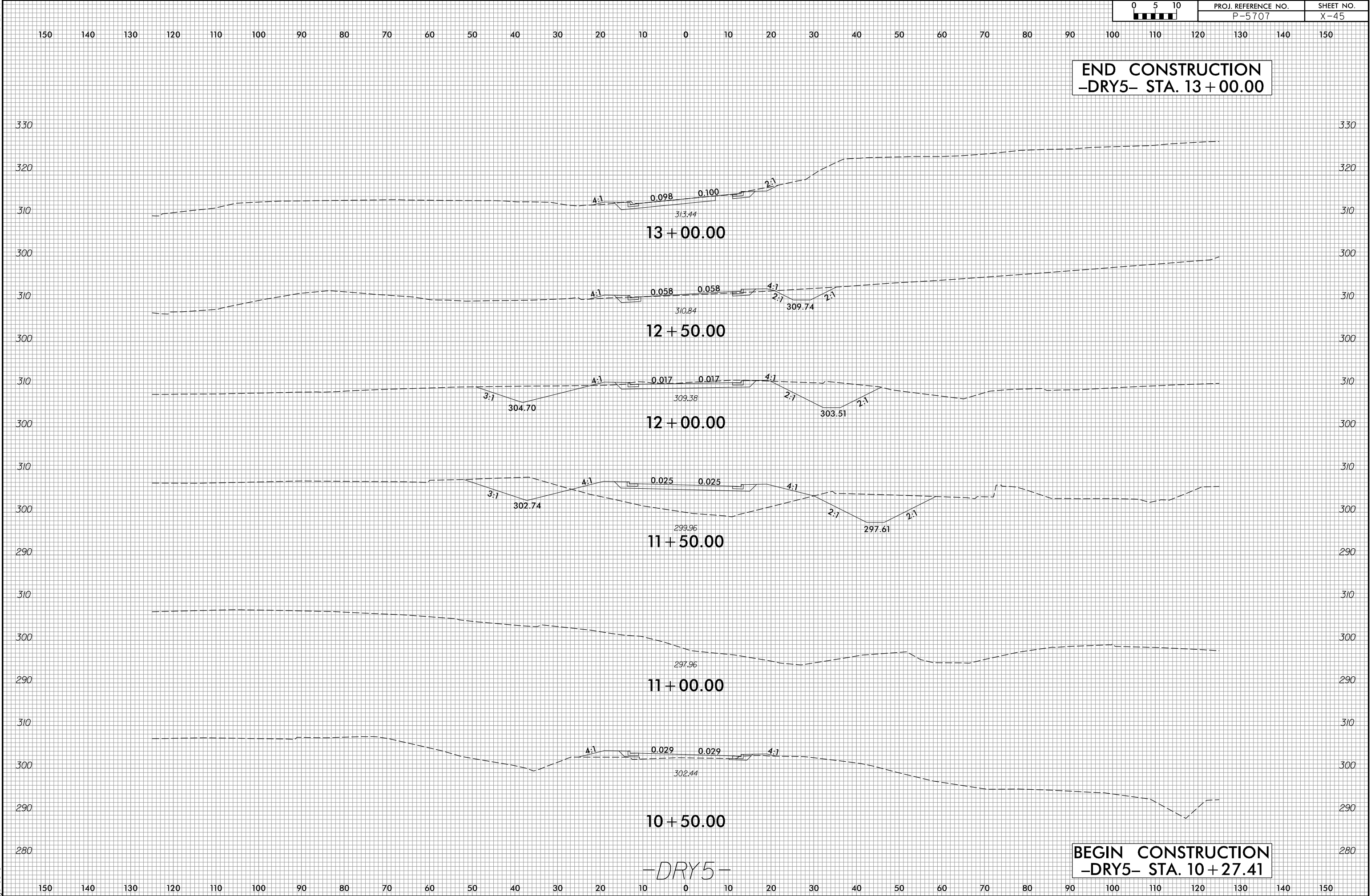


PROJ. REFERENCE NO.	SHEET NO.
P-5707	X-44



6/23/16

3/7/2025
R:\Roadway\XSC\PS707_Rdy.xpl.DRY5.dgn
Project



6/23/16

3/7/2025
R:\Roadway\XSC\PS707_Rdy.xpl.DRY5A.dgn
Project

