

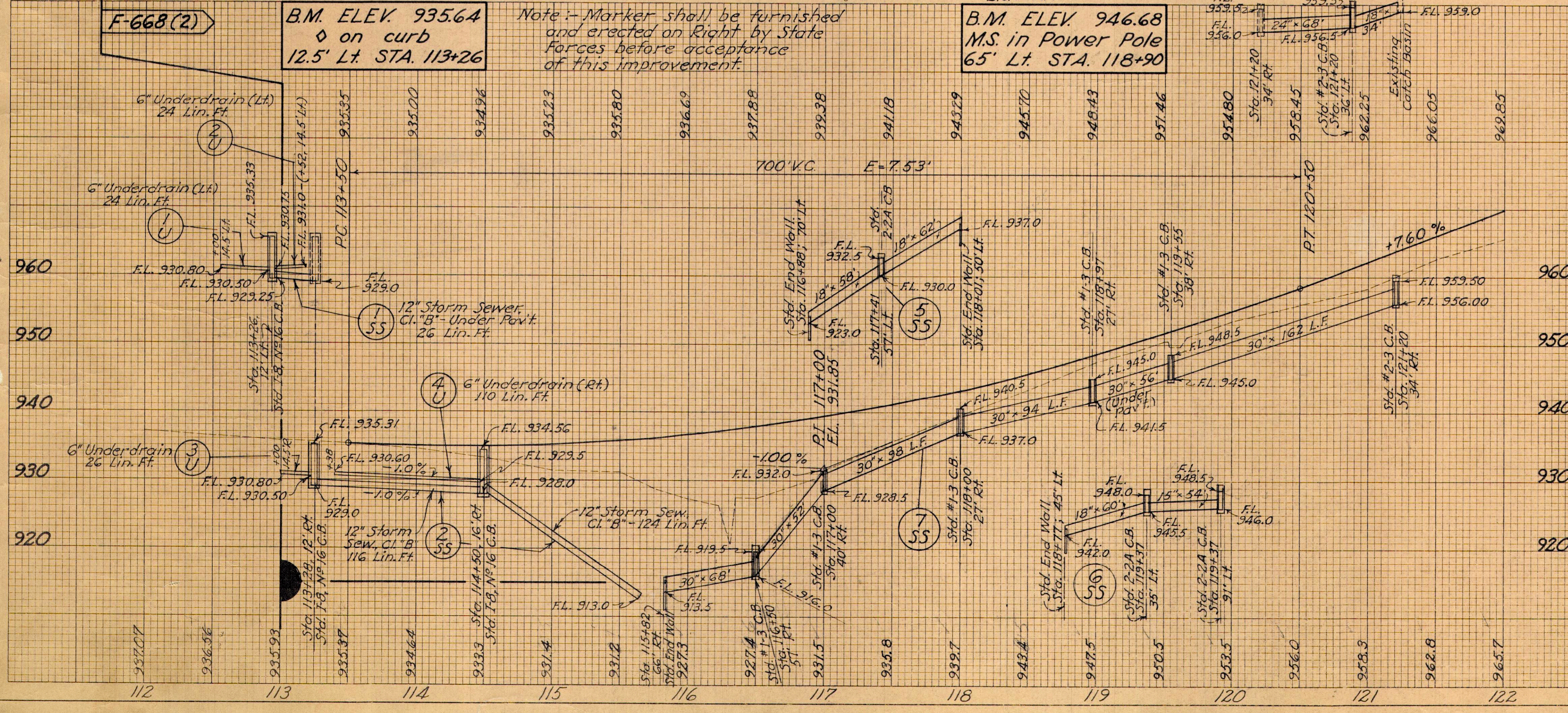
**STA. 113+00.00
BEGIN PROJECT.**
F-668(2) --- SLM=21.08

B.M. ELEV. 935.64
on curb
12.5' Lt. STA. 113+26

Note: Marker shall be furnished and erected on Right by State Forces before acceptance of this improvement.

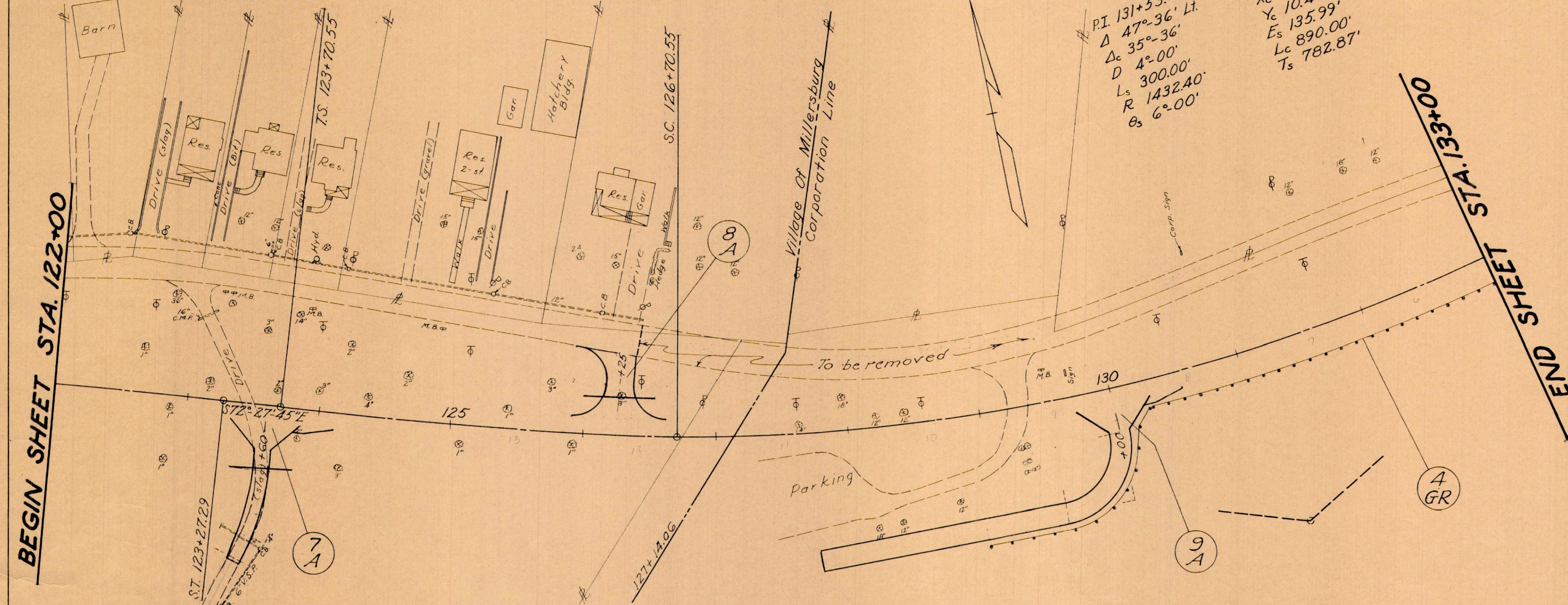
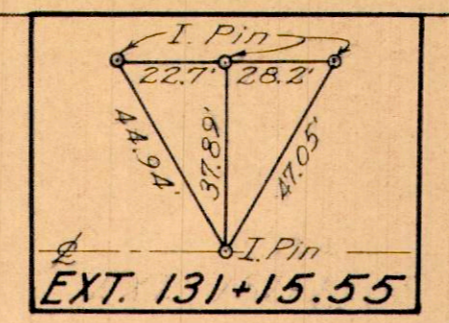
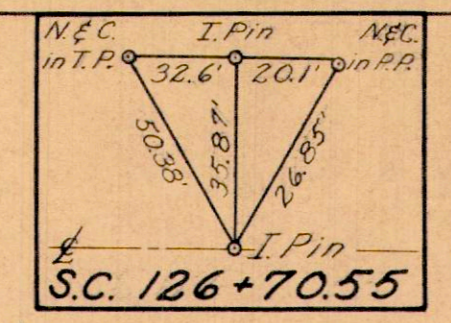
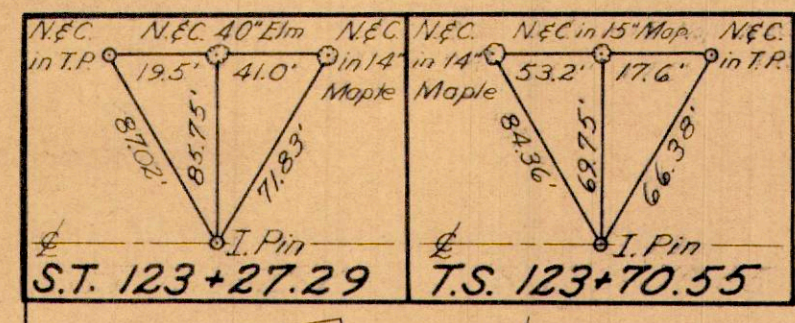
B.M. ELEV. 946.68
M.S. in Power Pole
65' Lt. STA. 118+90

P.I. 118+40.10
p 2.62'
Δ 27° 34' Rt.
k 14995'
Δc 15°-34'
D 4°-00'
Ls 300.00'
R 1432.40'
θ 6°-00'
Xc 299.67'
Yc 10.46'
Ts 501.98'
Es 45.17'
L.C. 389.17'



REF. NO.	STATION TO STATION	SIDE	CLASS	TYPE	DIAMETER	LENGTH	START ELEV.	END ELEV.	REMARKS
1-A	113+98	Rt	10	G	2				
2-A	115+50	Lt	90	S	23				
3-A	117+05.7	Lt	130	S	23				
4-A	119+10.85	Lt	143	S	32				
5-A	121+26 Lt. on 4	Rt	143	S	32				
6-A	119+25.2	Rt	345	S	218	179			
1-SW	113+50 to 114+11	Lt							
2-SW	113+35	Rt							
3-SW	113+65	Rt							
4-SW	120+47(4) to 121+00(L)	Lt							
1-C	113+00 to 114+50	Lt							
2-C	113+00 to 114+46	Rt							
1-U	113+00 to 113+26	Lt							
2-U	113+26 to 113+52	Lt							
3-U	113+00 to 113+28	Rt							
4-U	113+38 to 114+50	Rt							
1-S	116+30								
1-GR	116+08 to 116+93	Lt							
2-GR	115+80 to 116+91.2	Lt							
3-GR	114+25 to 117+24.7	Rt							
1-SS	113+27								
2-SS	113+28 to 115+63	Rt							
3-SS	116+30(5) to 121+20(5)	Rt							
4-SS	118+00(5) to 120+40(5)	Lt							
5-SS	116+88 to 118+01	Lt							
6-SS	118+77 to 119+37	Lt							
7-SS	115+82 to 121+20	Rt							
8-SS	121+20	Lt							
1-G	118+01 to 118+77	Lt							
	113+00 to 116+96(L)	Lt							
TOTALS									

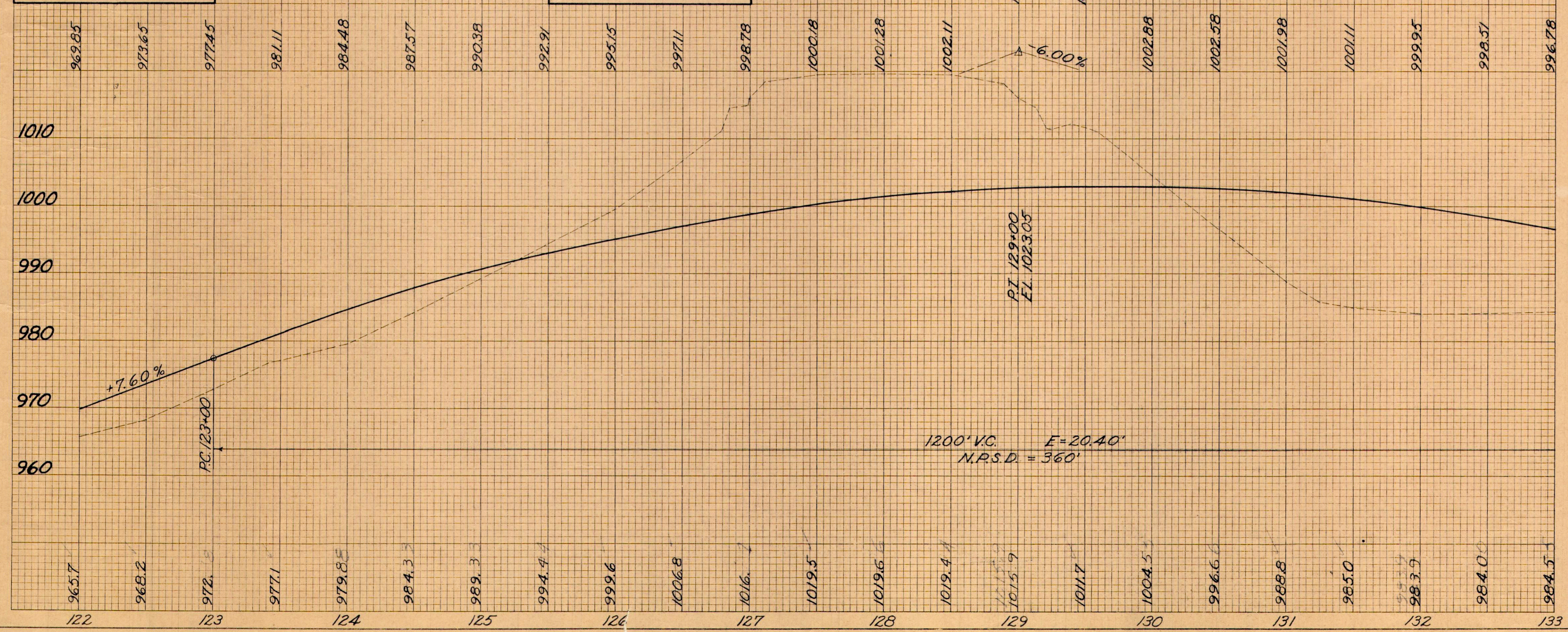
PLAN & PROFILE -- STA. 112+00 TO STA. 122+00



P 2.62'
 K 149.95'
 Xc 299.67'
 Yc 10.46'
 Es 135.99'
 Lc 890.00'
 Ts 782.87'
 R 1432.40'
 D 4°-00'
 Δ 47°-36' Lt.
 PI 131+53.42
 Δ 35°-36'
 Bs 6°-00'

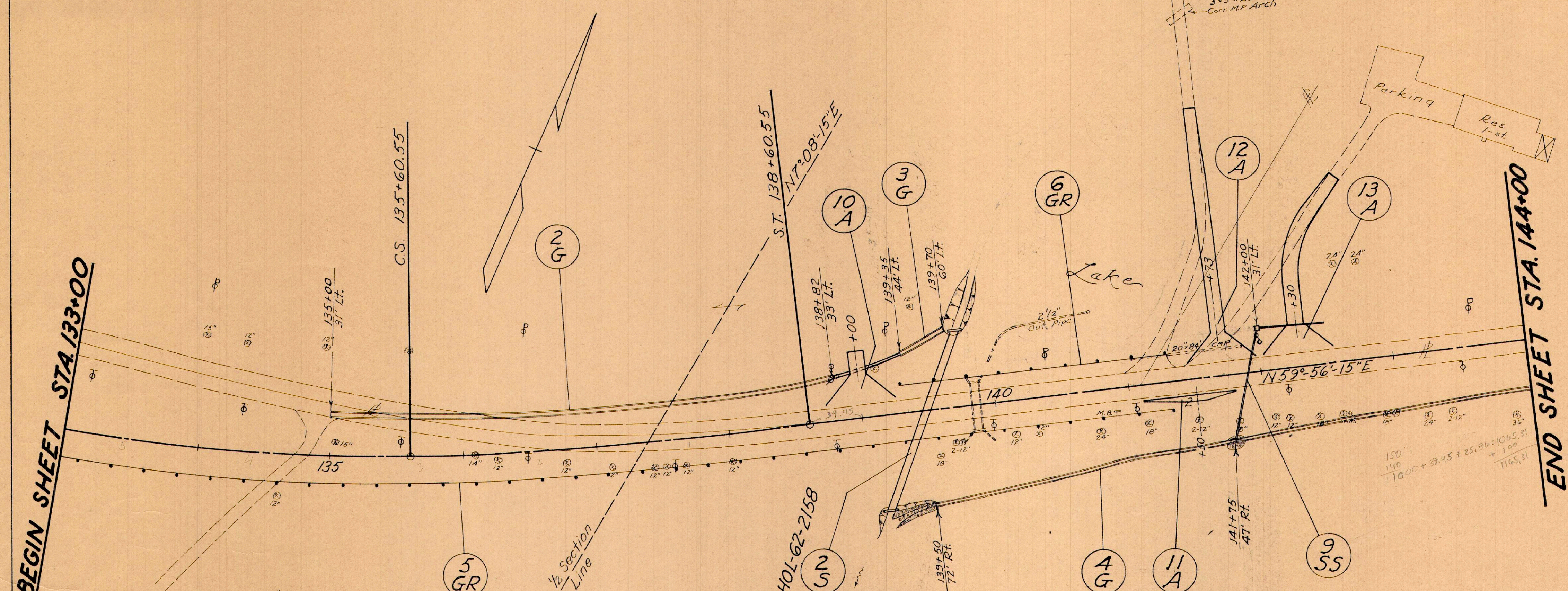
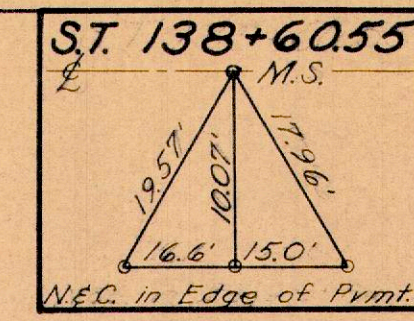
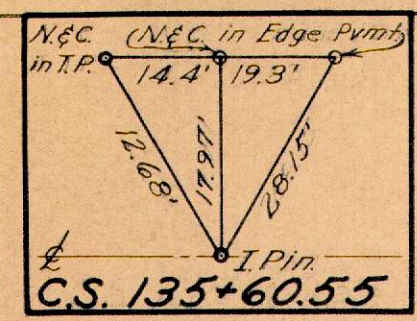
B.M. ELEV. 973.72
M.S. in Power Pole
118' Lt. STA. 122+75

B.M. ELEV. 1000.66
M.S. in Power Pole
95' Lt. STA. 126+91



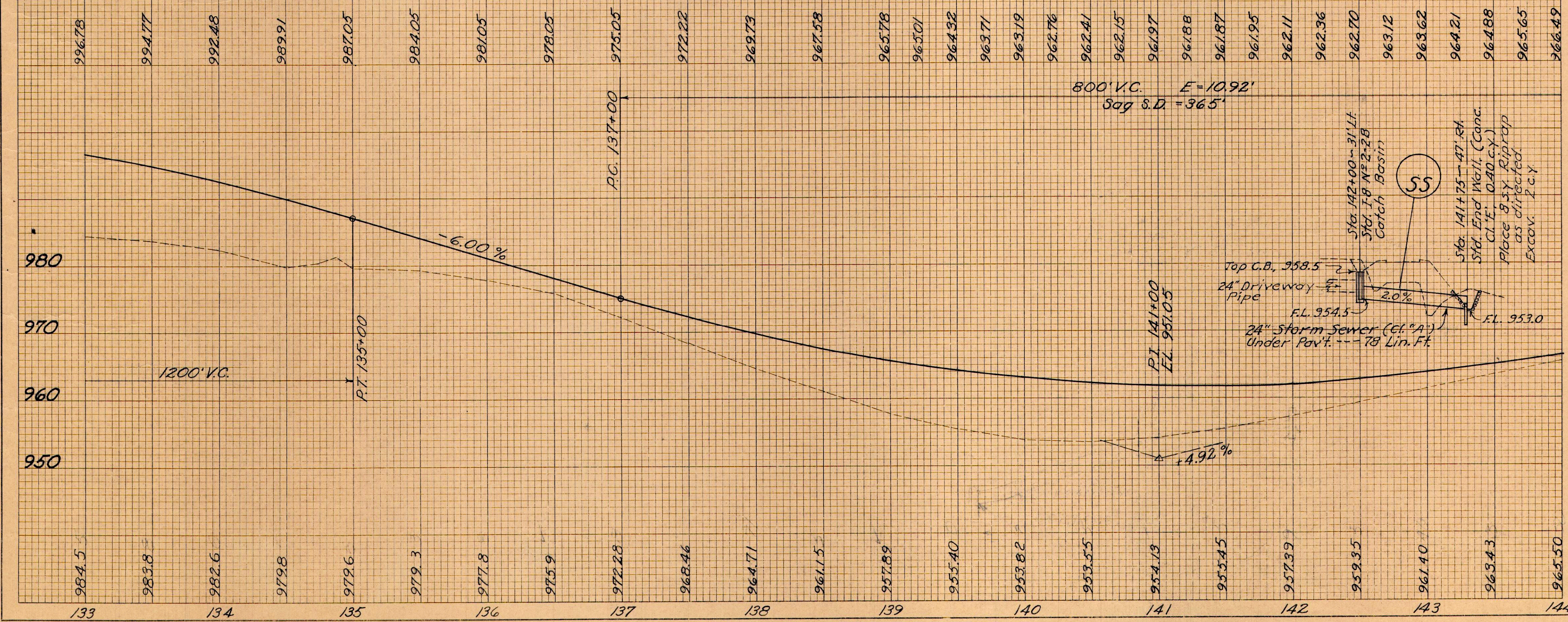
REF. NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES		Pipe for Drive ways 15" L.F.	T-30 Prime Coat Course C.Y.	T-30 Prime Coat Base C.Y.	B-119 Aggregate Base C.Y.
			7-35 Surf. Course C.Y.	Exist. Pavt. Removed 15" & Flexible Under Type L.F.				
7-A	123+00	Rt.	11.1	16	46	70	28	
8-A	126+42	Lt.	9.0	16	54	63	35	
9-A	130+00	Rt.	30.9	16		206	175	
4-GR	130+28.79 to 133+00	Rt.		17.80				
TOTALS								

PLAN & PROFILE -- STA. 122+00 TO STA. 133+00



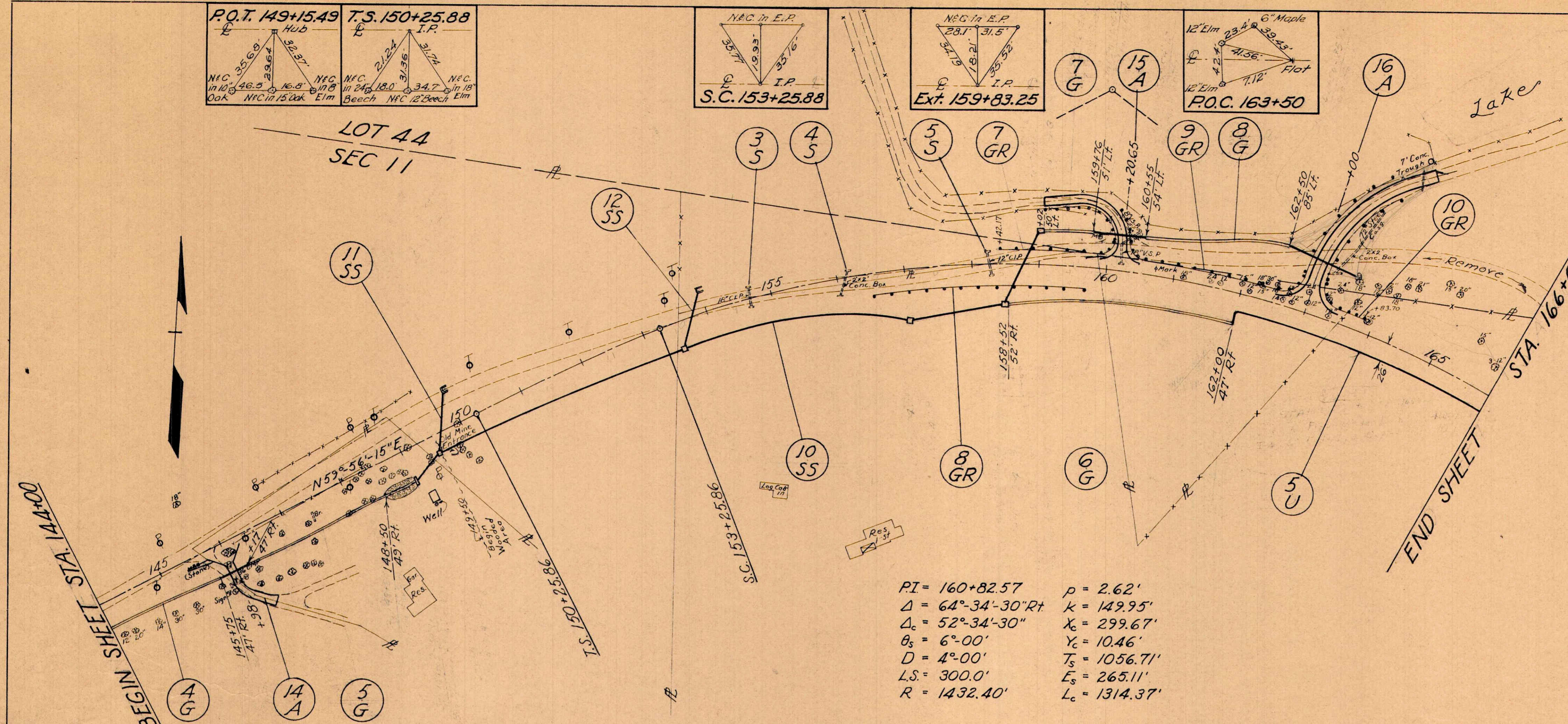
B.M. ELEV. 994.05
M.S. in Telephone Pole
42' Lt. STA. 133+13

B.M. ELEV. 959.13
M.S. in Telephone Pole
18' Rt. STA. 138+75

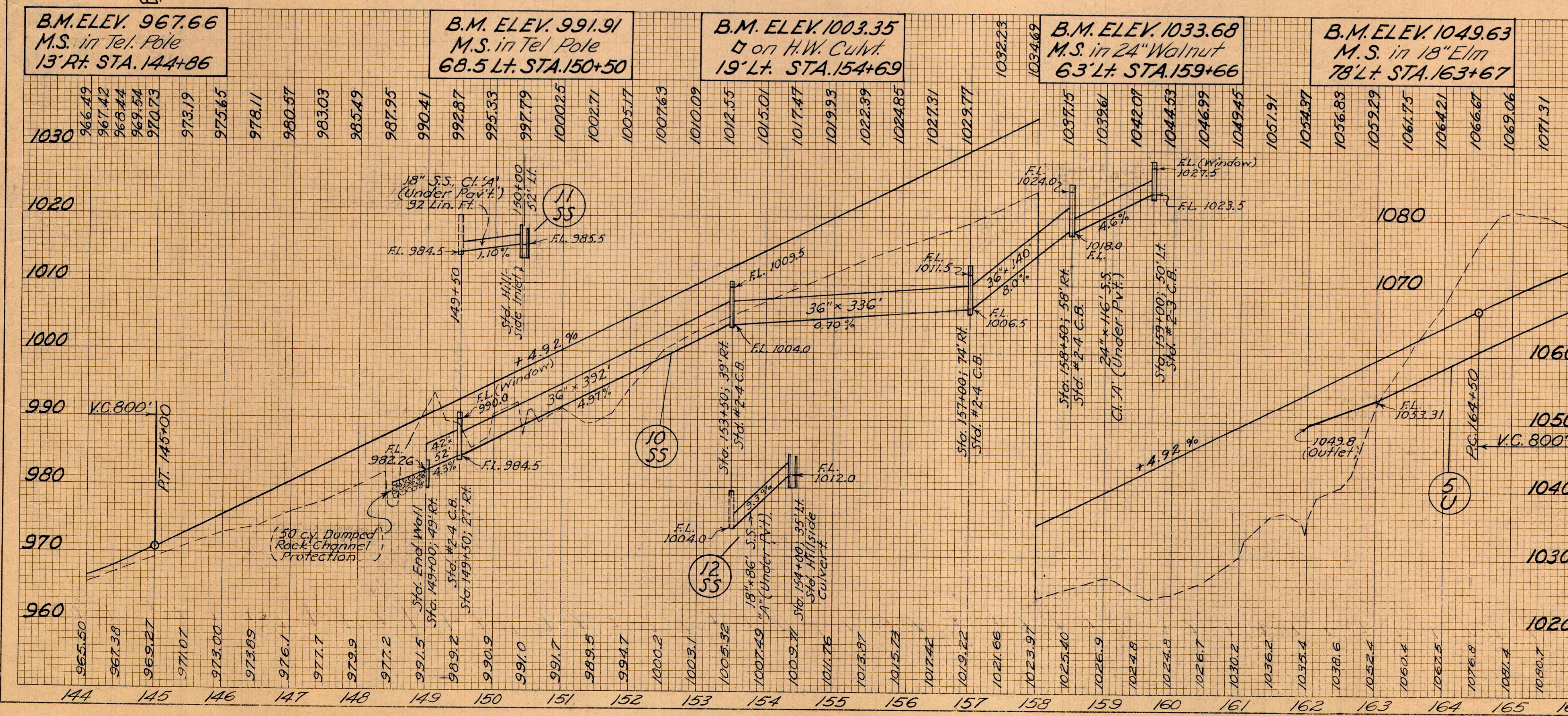


REF. NO.	STATION TO STATION	SIDE	7.55 Surf. C.Y. (incl. C.Y.)	1-30 Prime Coat B-119 Hydr. Base	Paved Gutter Type 1 L.F.	Catch Basin #2-2B Eqa.	Con. create Cl. "E" C.Y.	66" Cor. M. Pipe for Sec. Med. (g) (c) #10 ga. L.F.	Storm Sewer Ci. "24" Under Pav't. Lin. Ft.	Rip Under Pav't. rap Lin. Ft.	Structure Excavate C.Y.	Channeled Excavate C.Y.	Dump Rock Protect. Channeled C.Y.	Pipe Renewal Over 15" Lump Sum L.F.	Remove/Exist. Struct. Lump Sum	Grout Road-Way Lin. Ft.	SEE SHEET NO.
10-A	139+00	Lt.	16														
11-A	141+50 -- (2 M.B.)	Rt.	1.8 11.45														
12-A	141+73	Lt.	16.1 102.40.3														
13-A	142+30	Lt.	12.4 78.31														
5-GR	133+00.0 to 141+31.76	Rt.															
6-GR	139+30.0 to 141+30.0	Lt.															
2-S	139+48.6																
9-SS	141+75 to 142+00	L & R															
2-G	135+00 to 138+82	Lt.															
3-G	139+35 to 139+70	Lt.															
4-G	139+50 to 144+00	Rt.															
TOTALS																	

PLAN & PROFILE -- STA. 133+00 TO STA. 144+00

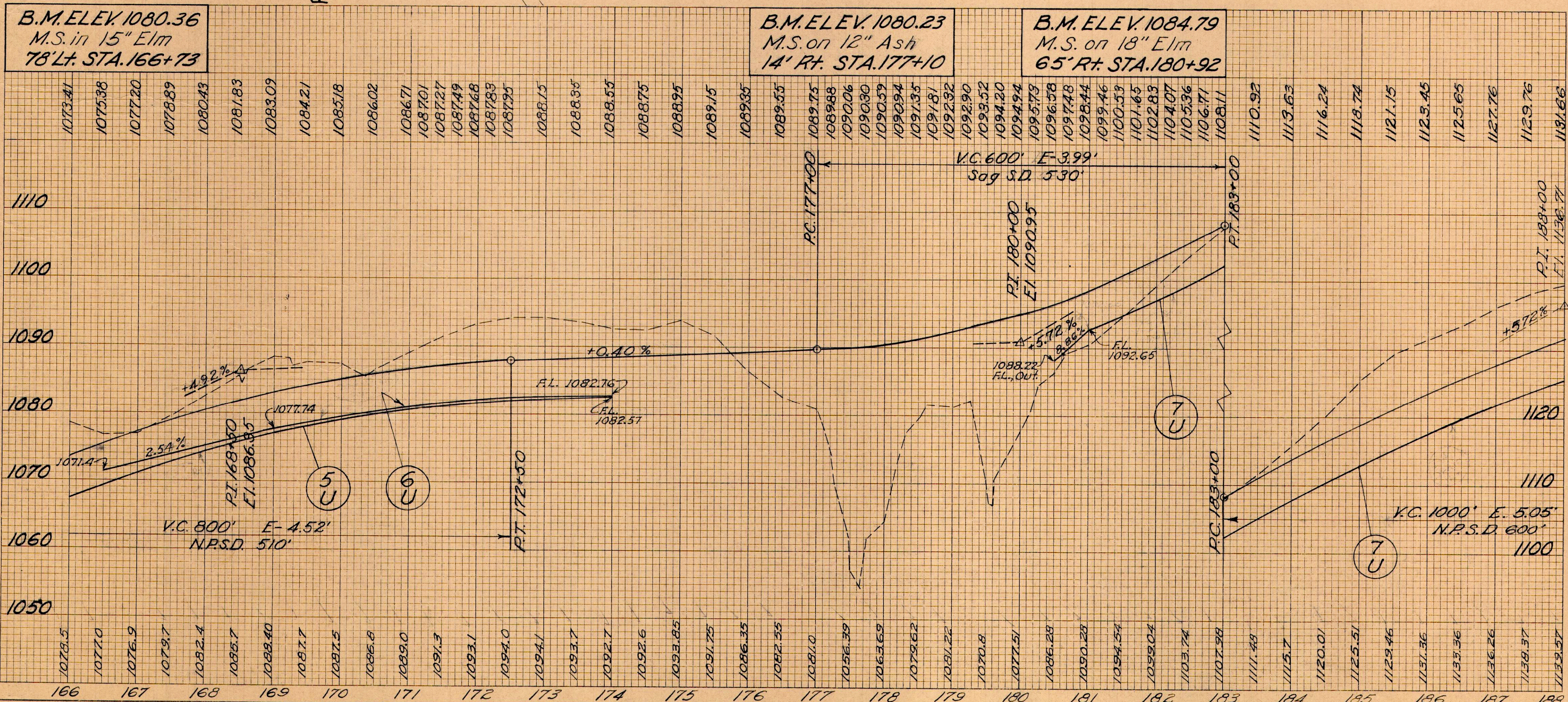
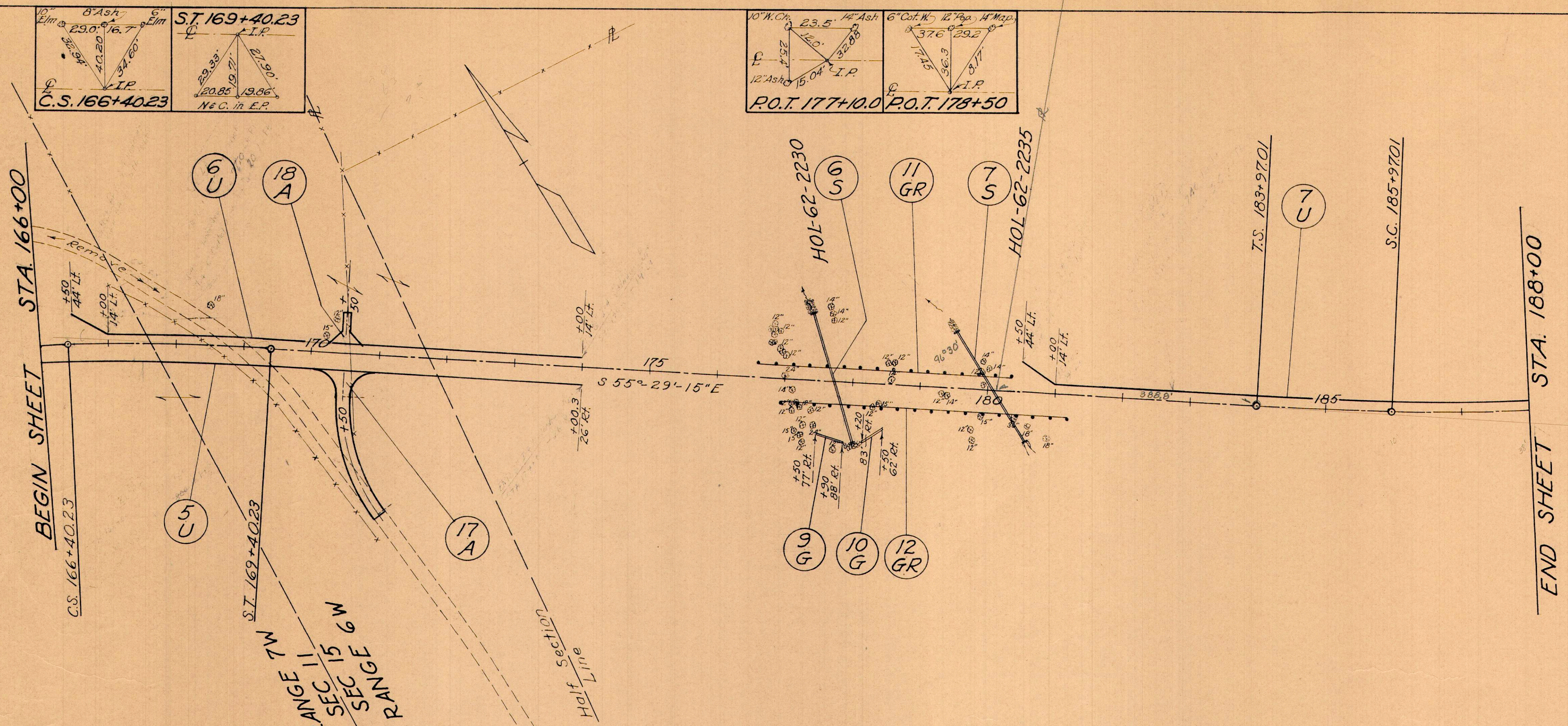


$PI = 160+82.57$ $p = 2.62'$
 $\Delta = 64^\circ-34'-30''$ $k = 149.95'$
 $\Delta_c = 52^\circ-34'-30''$ $X_c = 299.67'$
 $\theta_s = 6^\circ-00'$ $Y_c = 10.46'$
 $D = 4^\circ-00'$ $T_s = 1056.71'$
 $L_s = 300.0'$ $L_c = 265.11'$
 $R = 1432.40'$ $L_c = 1314.37'$



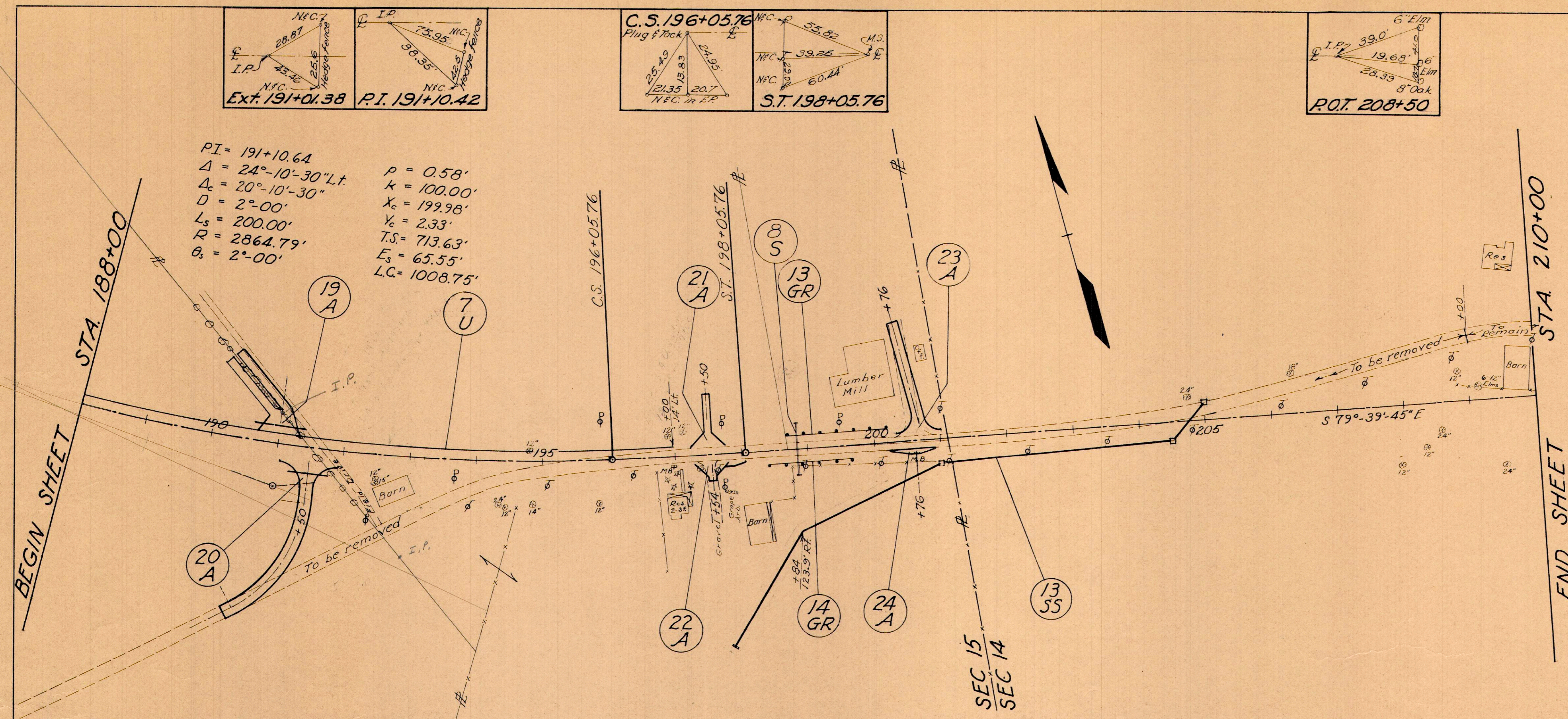
REF. NO.	STATION TO STATION	SIDE	Removals	Concrete	Catch Basin	Storm Sewer	Dump	Struct. Excavation	Reinfg. Steel	Paved Gutter	Pipe Drive	Argic Base	T-35 Surf. Course	T-30 Prime Coat	B-19
7-GR	144+00 to 145+90 Lt.														
8-GR	146+50 to 159+82.14 Rt.														
9-GR	160+54.75 to 162+52.00 Lt.														
10-GR	163+46.72 to 163+83.70 Lt.														
10-SS	149+00 to 158+50 Rt.														
11-SS	149+50 to 150+00 L&R														
12-SS	153+50 to 154+00 L&R														
3-S	154+65														
4-S	156+15														
5-S	158+28														
4-G	144+00 to 145+75 Rt.									175					
5-G	146+17 to 148+50 Rt.								233						
6-G	158+52 to 162+00 Rt.								338						
7-G	159+02 to 159+76 Lt.								78						
8-G	160+55 to 162+50 Lt.								200						
5-U	162+00 to 166+00 Rt.														
	163+20 (±) to 166+00 Lt.														
TOTALS															

PLAN & PROFILE - STA 144+00 TO STA 166+00



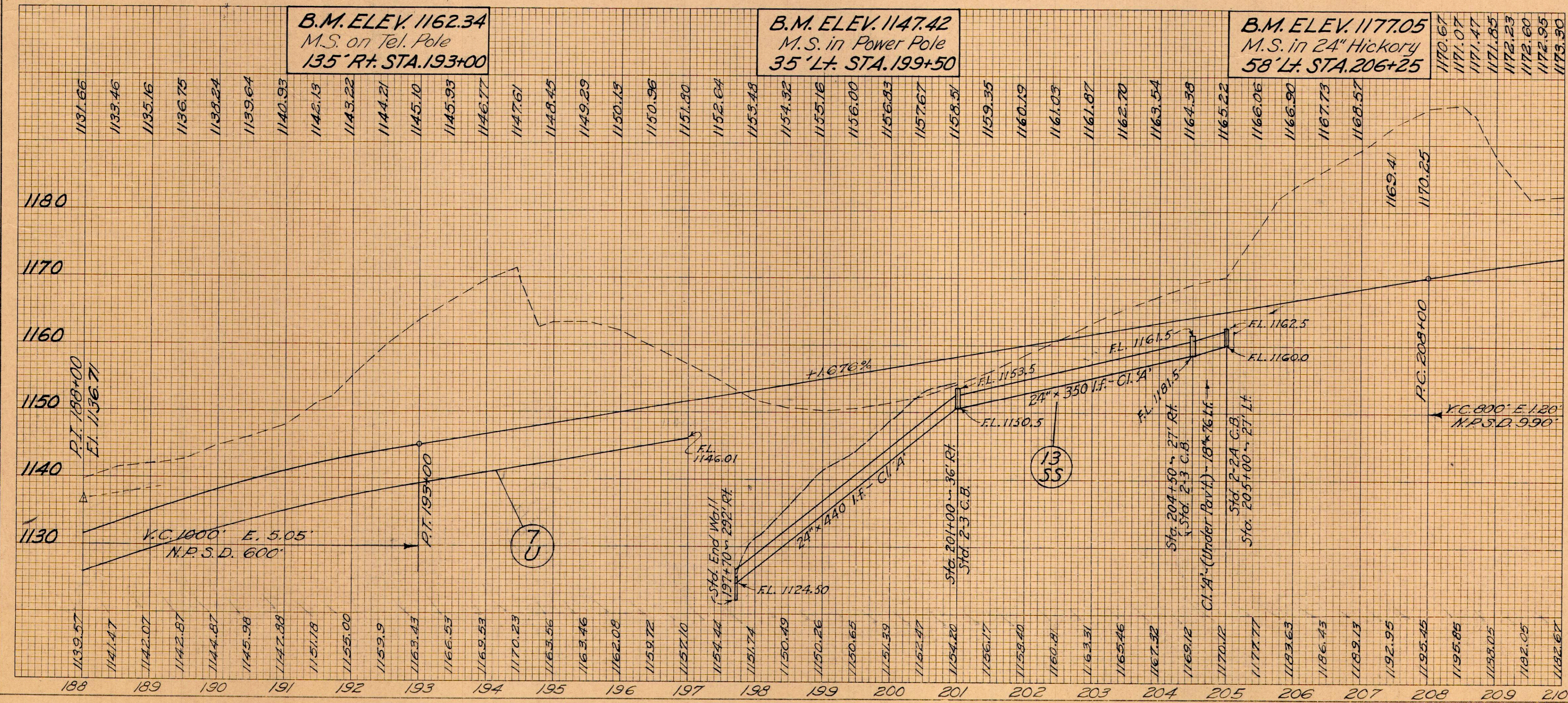
REF. NO.	STATION TO STATION	SIDE	24" Pipe	Corc. Metal	I-22	B-119	B-35	T-30	B-35	T-35	Lim. Ft.	Cu. Yds.	Excavation	Channel	Class "E"	Dumped Rock Chpn	6" Pipe Underdrain	6" Pipe Underdrain	Rip and Top	Paved Gutter	Exist. Pav't. Removal	Guard Rail	SEE SHEET NO.
17-A	170+50	Rt.																					
18-A	170+50	Lt.																					
11-GR	170+60 to 180+35	Lt.																					
12-GR	170+95 to 181+20	Rt.																					
6-U	177+74																						
7-U	180+10																						
6-U	166+50 to 174+00	Lt.																					
5-U	166+100 to 174+00.3	Rt.																					
7-U	180+50 to 188+00	Lt.																					
	166+00 to 169+35	Lt.																					
9-G	177+50 to 177+90	Rt.																					
10-G	178+20 to 178+50	Rt.																					
TOTALS																							

PLAN & PROFILE -- STA. 166+00 TO STA. 188+00



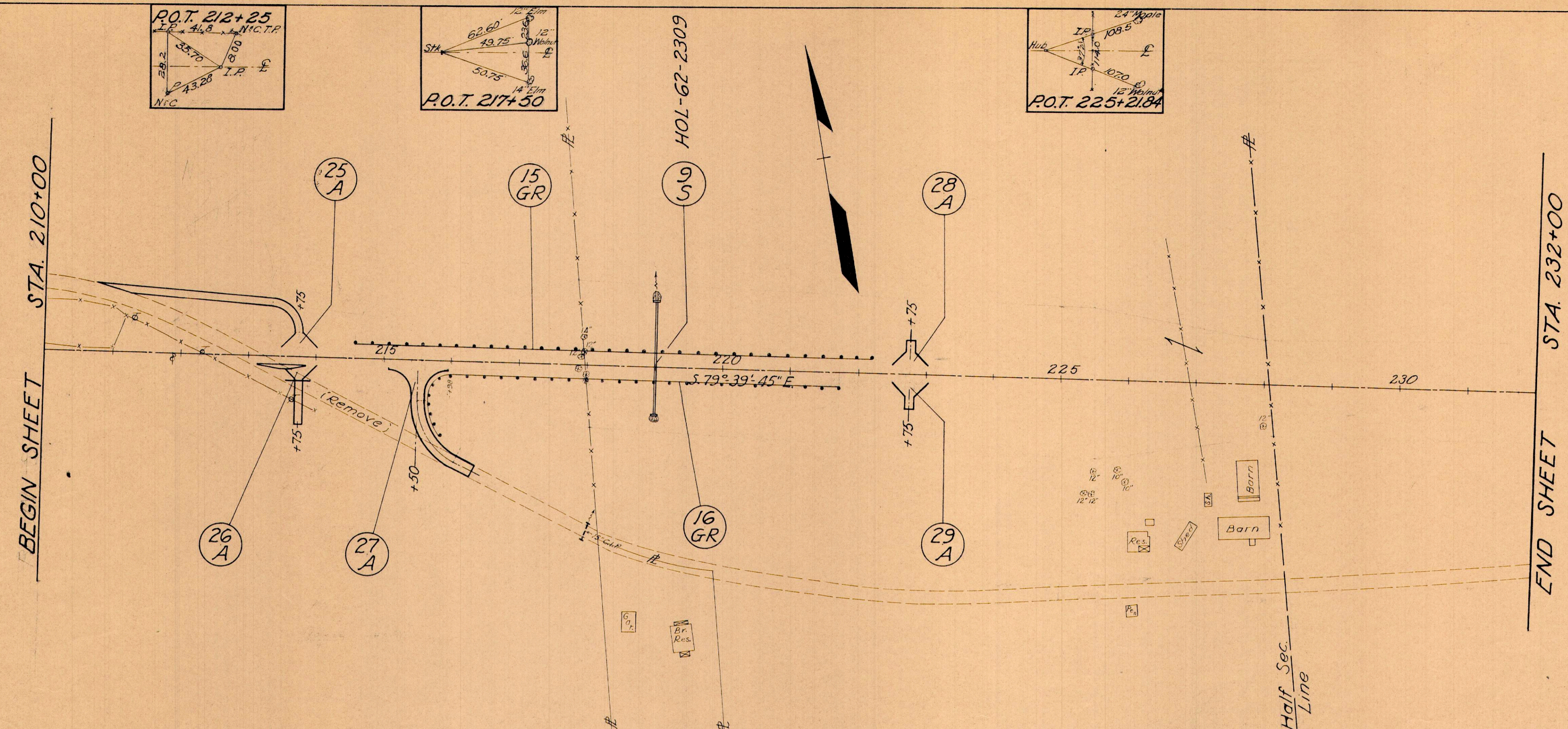
$PI = 191+10.64$
 $\Delta = 24^\circ-10'-30''$ Lt.
 $\Delta_c = 20^\circ-10'-30''$
 $D = 2^\circ-00'$
 $L_s = 200.00'$
 $R = 2864.79'$
 $\theta_s = 2^\circ-00'$

$P = 0.58'$
 $k = 100.00'$
 $X_c = 199.98'$
 $Y_c = 2.33'$
 $T_s = 713.63'$
 $E_s = 65.55'$
 $LC = 1008.75'$

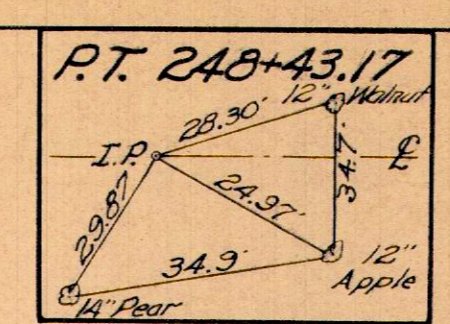
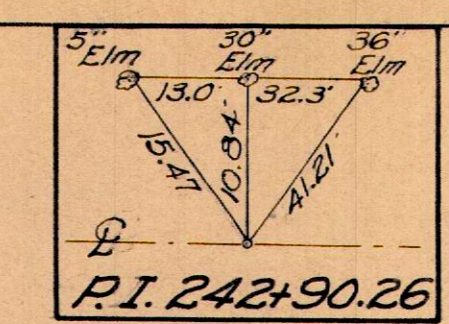
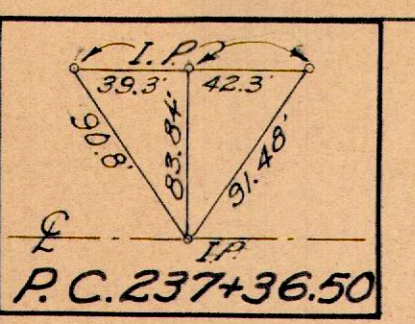
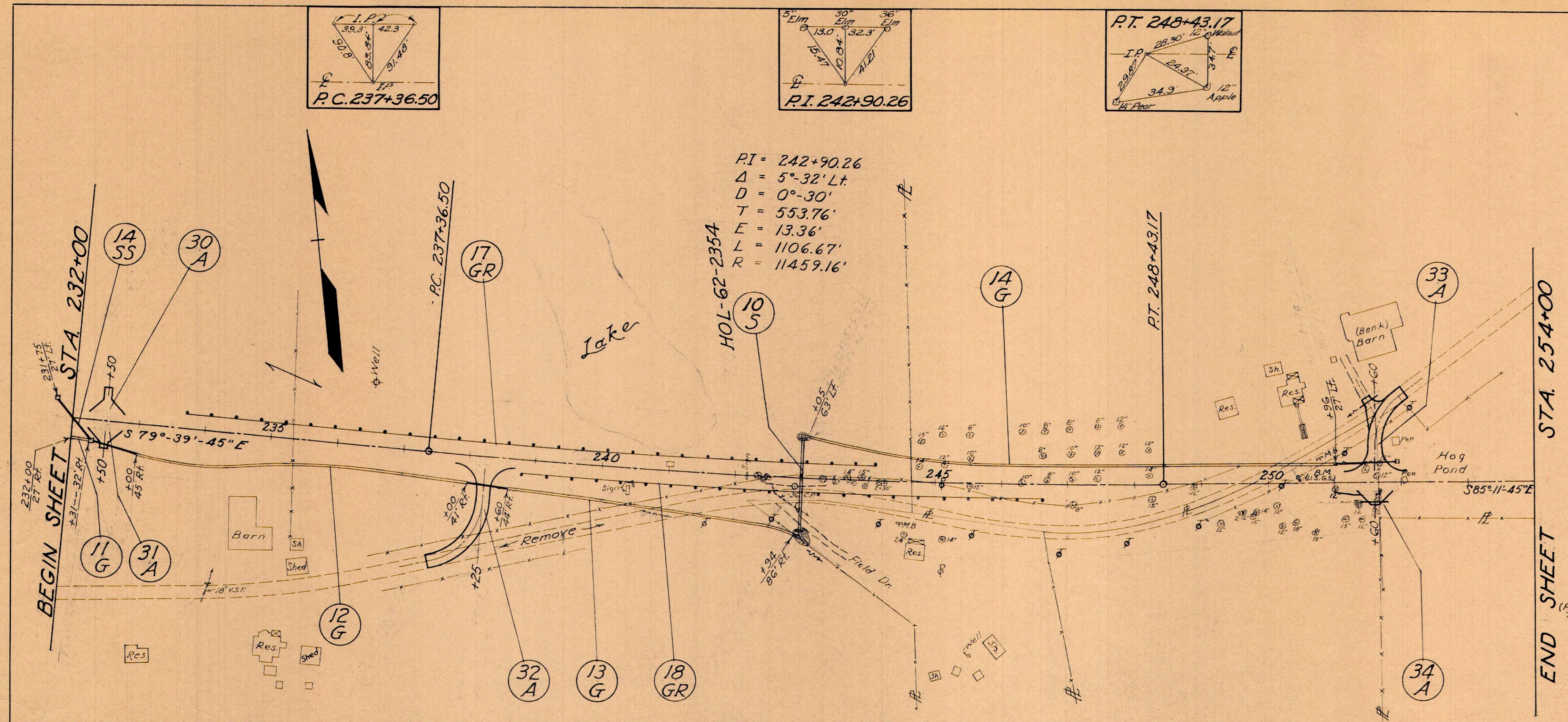


REF. NO.	STATION TO STATION	SIDE	7-35 Surface Course	B-35 Level Course	T-30 Prime Coat	B-35 Asphalt Base	B-119 Appr. Base	I-22 Appr. Subbase	6" Pipe Under	18" Storm Sewer	24" Storm Sewer	18" Storm Sewer	15" Storm Sewer	15" Pipe for Roadway	Pipe to be Removed	Exist. Pav't Removal	Guard Rail
NO.			Curves	Curves	Gal's	Curves	Curves	Curves	Lin. Ft.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	SY	Lin. Ft.
19-A	191+00	Lt.	23.6	23.6	244	57.9	72.0	126.8	68								
20-A	191+50	Rt.	8.3	8.3	52	21.0	21.0	126.8	62								
21-A	197+50	Lt.	5.1	5.1	38	13.0	13.0										
22-A	197+54	Rt.	19.1	19.1	120	67.0	67.0										
23-A	200+76	Lt.	1.7	1.7	11	4.3	4.3										
24-A	200+76	Rt.															
13-GR	198+40 to 199+65	Rt.															
14-GR	198+70 to 200+20	Lt.															
7-U	188+00 to 197+00	Lt.															
8-S	198+84	Lt.															
191+30 to 193+35	Rt.																
209+00 to 210+00	Lt.																
13-SS	197+70 to 205+00	Rt.															
TOTALS																	

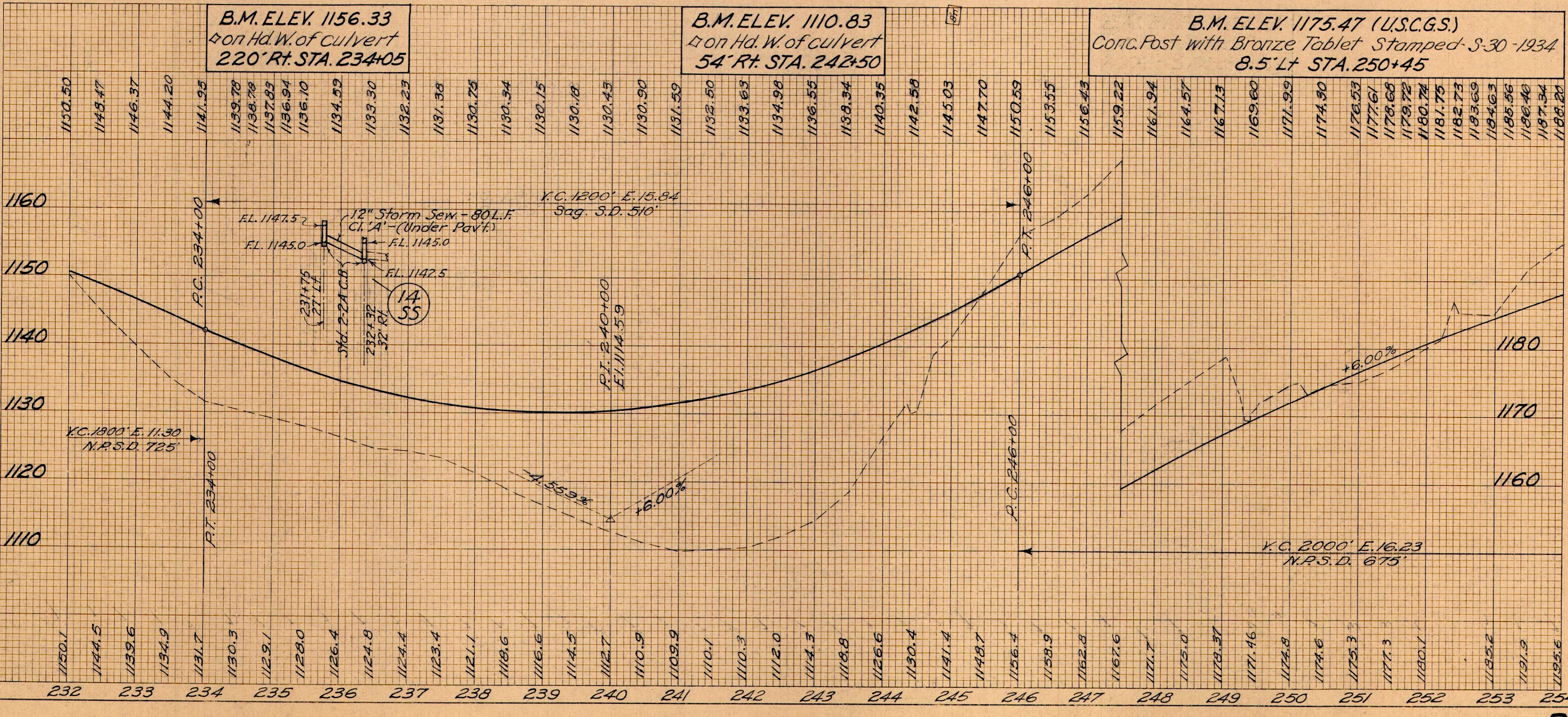
PLAN & PROFILE -- STA. 188+00 TO STA. 210+00



PLAN & PROFILE--STA. 210+00 TO STA. 232+00

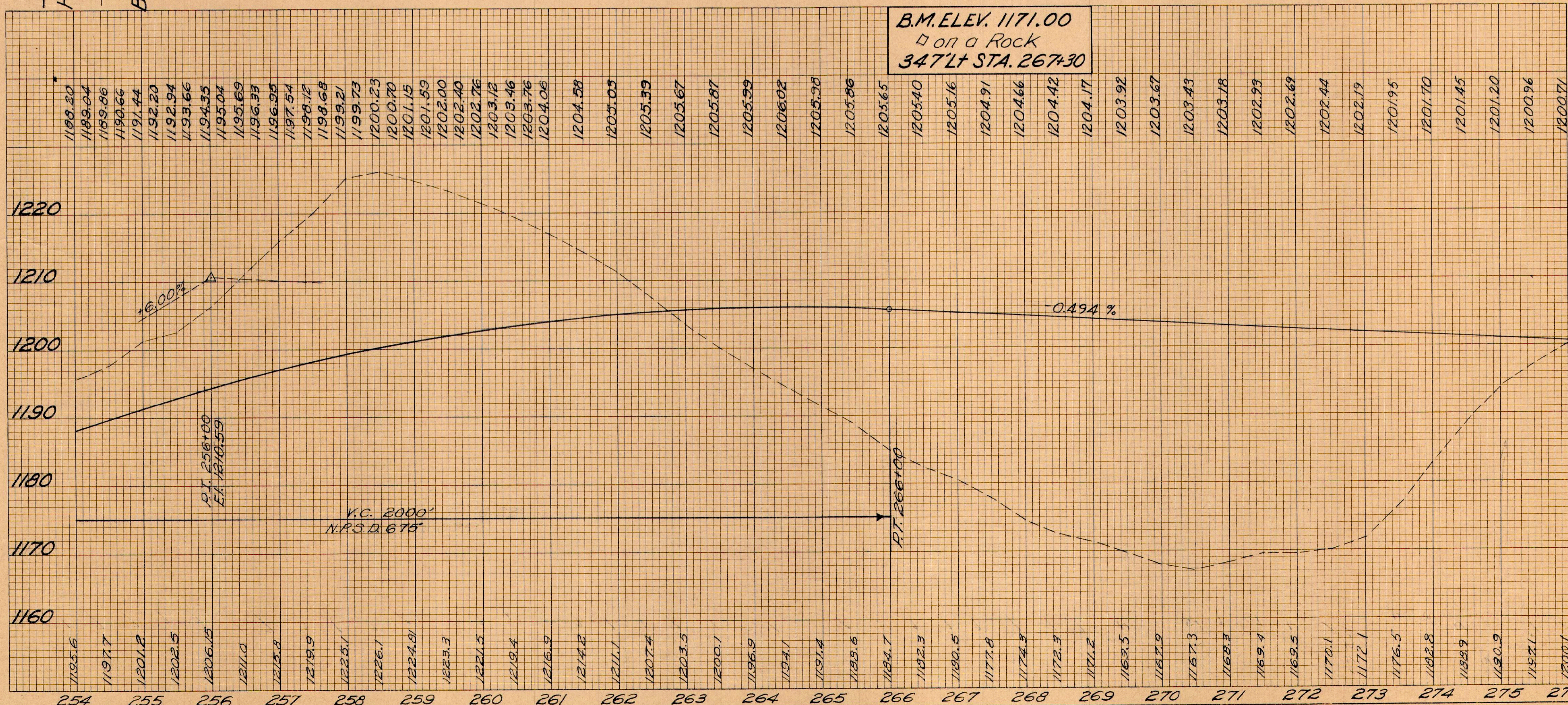
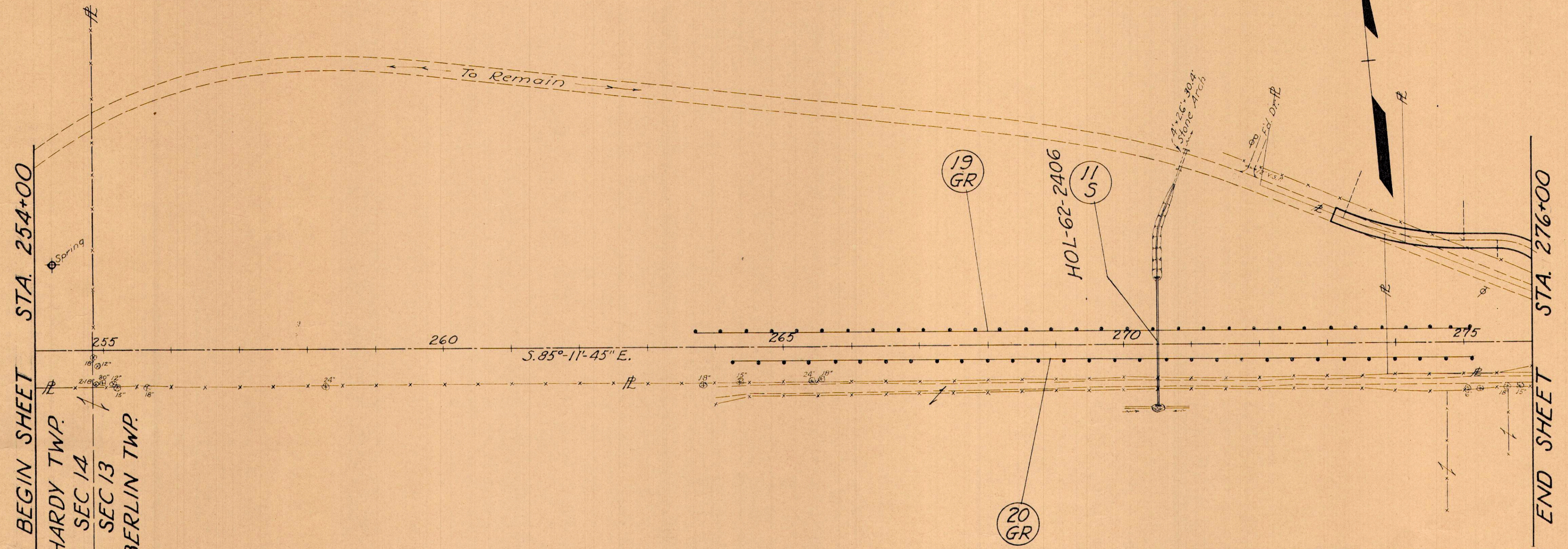
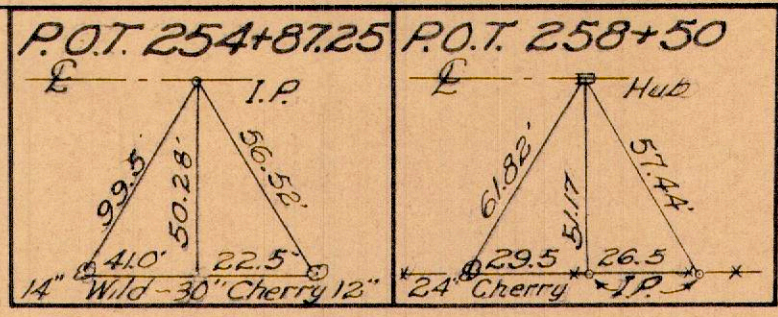


PI = 242+90.26
Δ = 5°-32' Lt.
D = 0°-30'
T = 553.76'
E = 13.36'
L = 1106.67'
R = 11459.16'



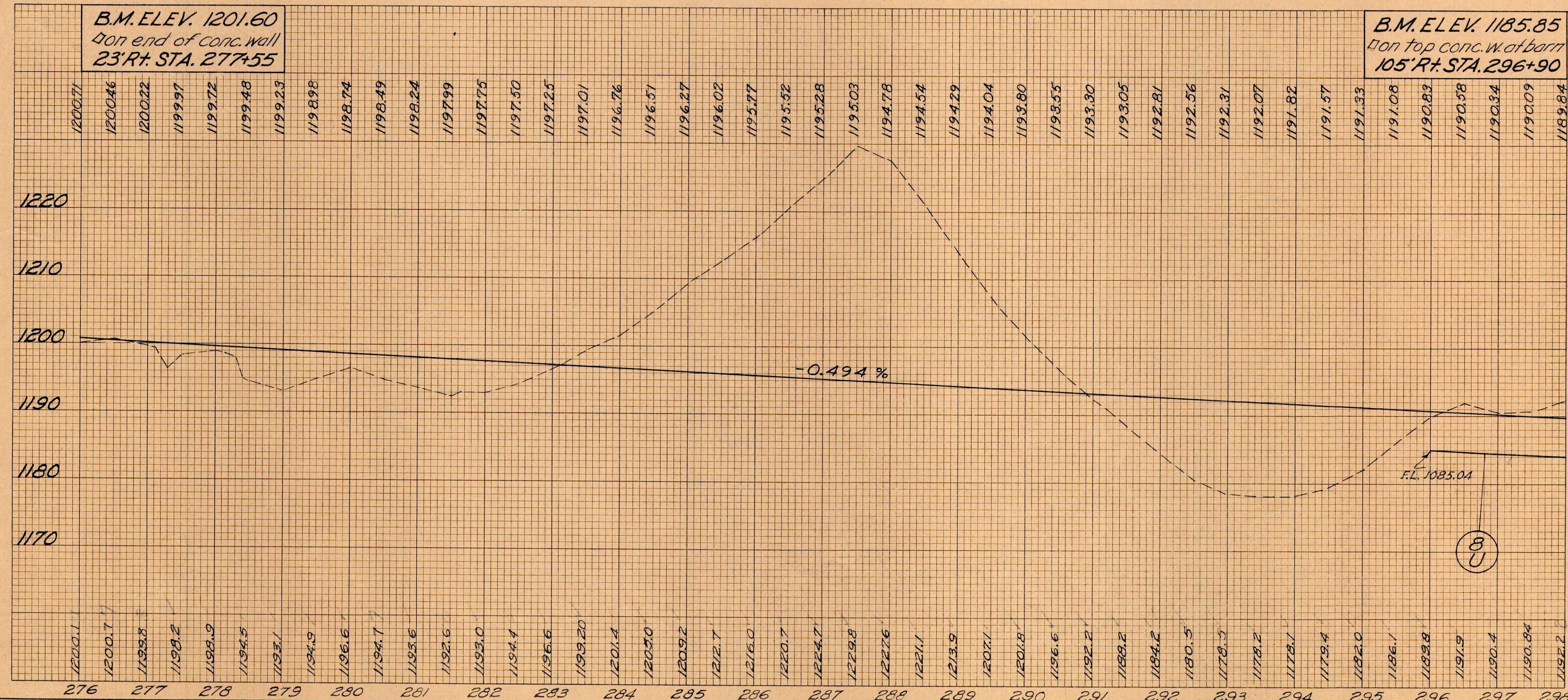
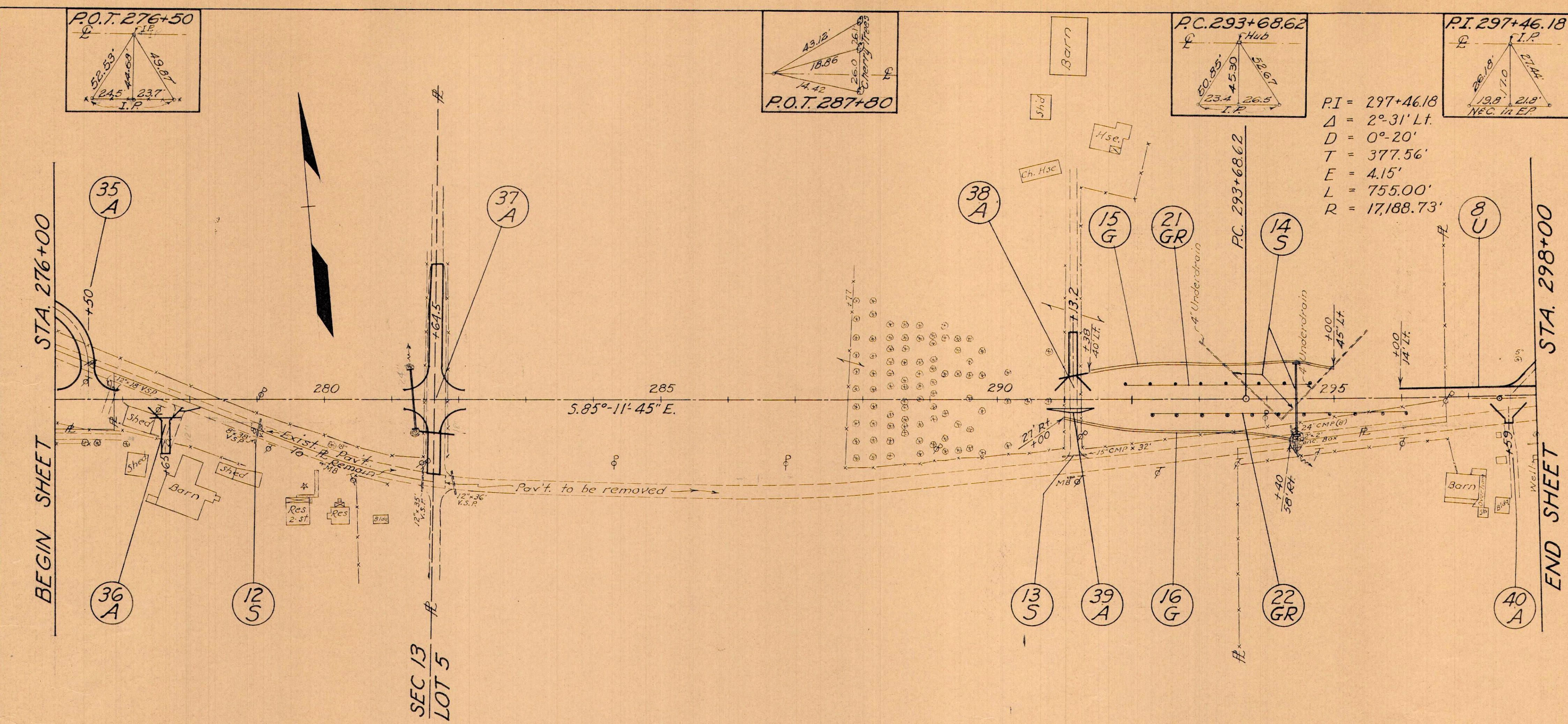
REF. NO.	STATION TO STATION	SIDE	12" Storm Sew. C.I. R	12" Storm Catch Under Fwy	36" Pipe Sp. C.I. 10' R	Structure Excavation	Concrete Cl. E.	Dump Rock	Rip & Top Protectn	Pipe For Driveways	Paved	I-22	B-119	B-35	T-30	B-35	T-35	TOTALS																			
30-A	232+50	Lt								15' 18" 27"									31																		
31-A	232+50	Rt																		68																	
32-A	238+25	Rt								32 92										60																	
33-A	251+60	Rt								42																											
34-A	251+60	Rt																																			
17-GR	233+70 to 244+11.18	Lt																																			
18-GR	238+80 to 246+64.41	Rt																																			
14-SS	231+75 to 232+32	L&R																																			
11-G	232+00 to 232+31	Rt																																			
12-G	233+00 to 238+00	Rt																																			
13-G	238+60 to 242+54	Rt																																			
14-G	243+05 to 250+96	Lt																																			
10-S	243+00	±																																			
238+15(±) to 240+85(±)																																					
TOTALS																																					

PLAN & PROFILE-- STA. 232+00 TO STA. 254+00



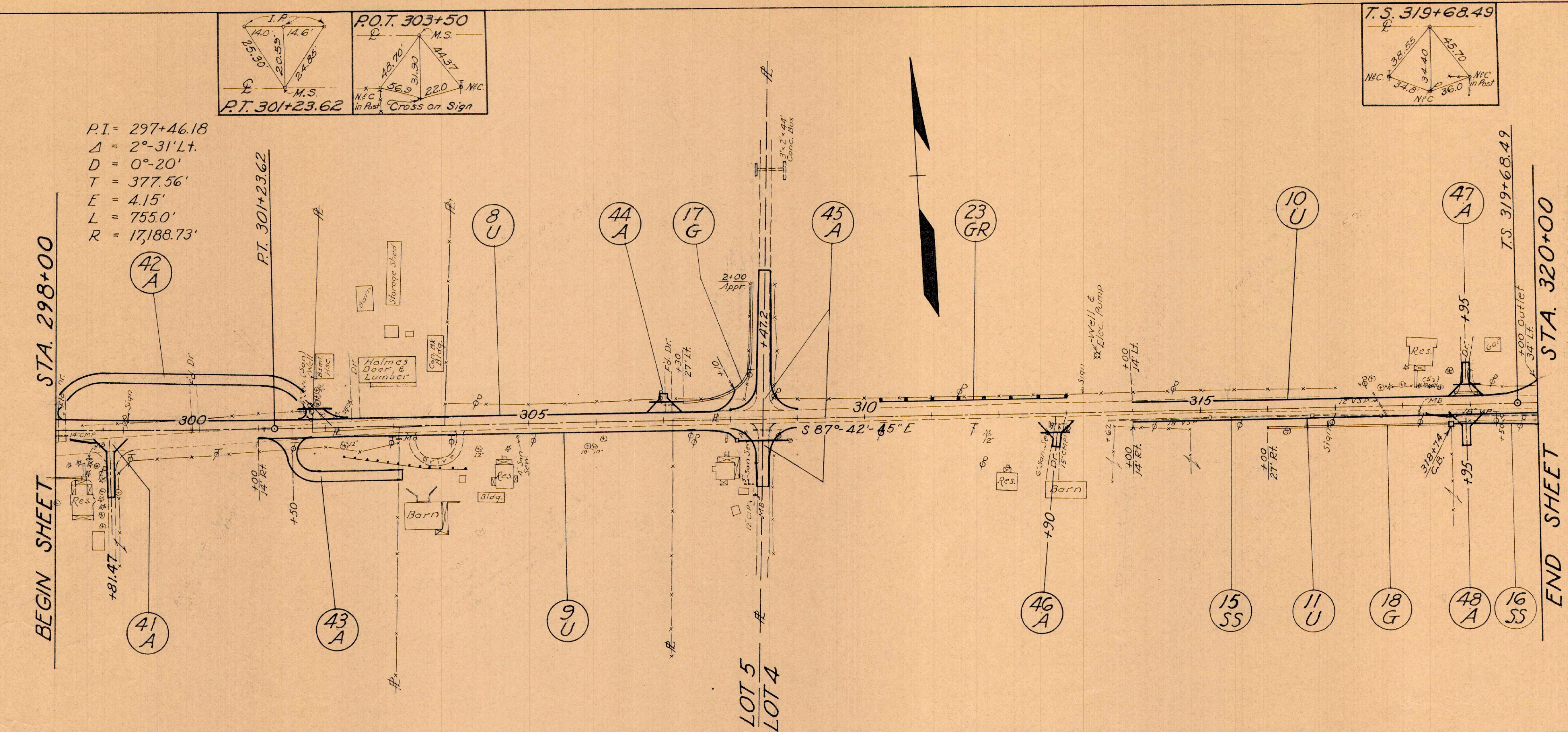
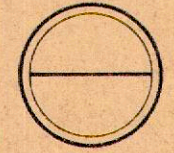
REF. NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES			
			Con-crete Class "E" Cu. Yd.	Excav-ation Structures Cu. Yd.	Excav-ation Channels Cu. Yd.	Rip-ping "A" Sq. Yd.
19-GR-263+70 to 275+07.5		Lt.				
20-GR-264+25 to 275+12.5		Rt.				
11-S-270+50			0.8	60	44	10
						190
TOTALS						

PLAN & PROFILE--STA. 254+00 TO STA 276+00

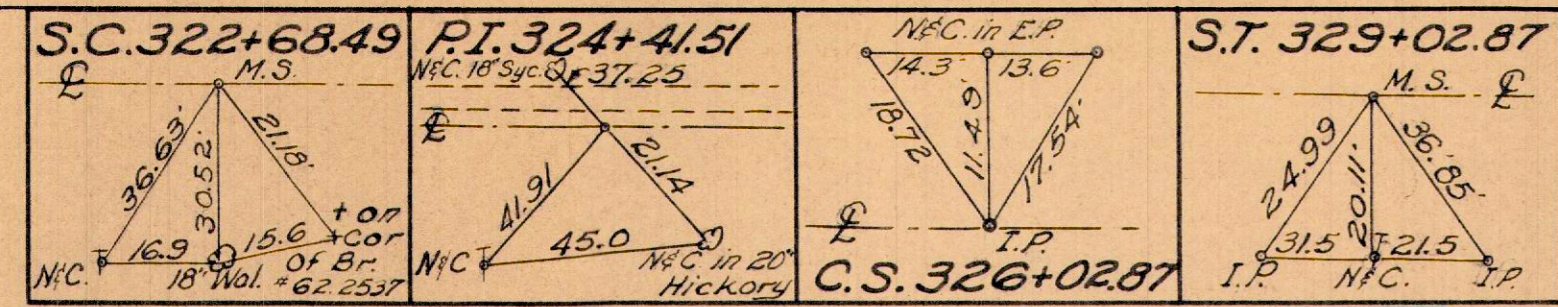


REF. NO.	STATION TO STATION	SIDE	Storm Sewer	Pipe for Driveway	Cont. crete	Rip rap	30" Pipe	Roadway Culvert	Structure Excavation	Channel Excavation	Dumped Rock Chon Protection	6" Pipe Underdrain	Paved Gutter Type 1	Removals	SEE SHEET NO.
35-A	276+50	Lt.													
36-A	277+65	Rt.													
37-A	281+64.5	Lt.	90	46	0.8	13									
38-A	281+13.2	Lt.													
39-A	297+59	Rt.													
40-A	291+13.2	Rt.													
21-GR	291+30 to 294+65.11	Lt.													
22-GR	292+11.5 to 296+04.73	Rt.													
12-S	279+00	Rt.													
13-S	291+13	Rt.													
14-S	294+44	Rt.													
15-G	291+38 to 295+00	Lt.													
16-G	291+00 to 294+40	Rt.													
8-U	296+00 to 298+00	Lt.													
	281+85(5) to 297+00(5)	Rt.													
TOTALS															

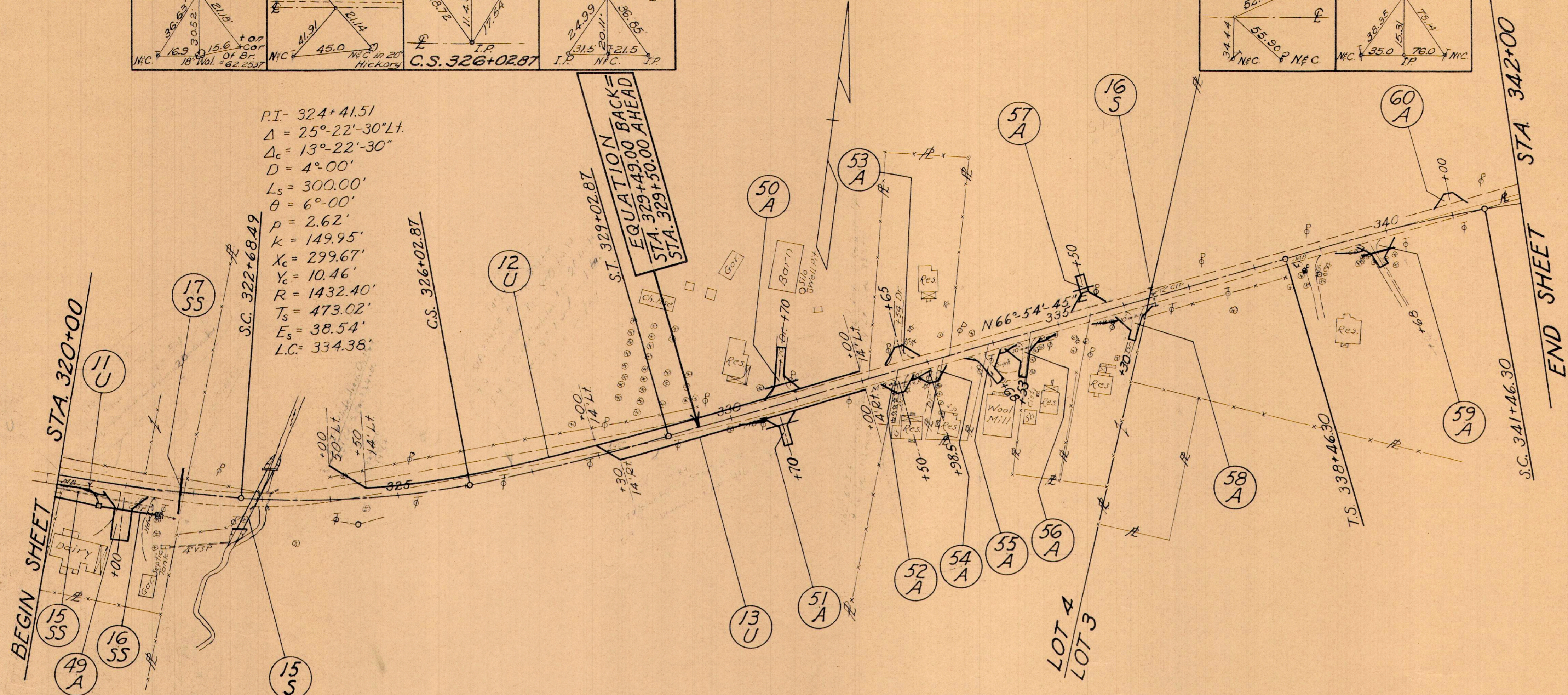
PLAN & PROFILE--STA. 276+00 TO STA. 298+00



PLAN & PROFILE -- STA. 298+00 TO STA. 320+00

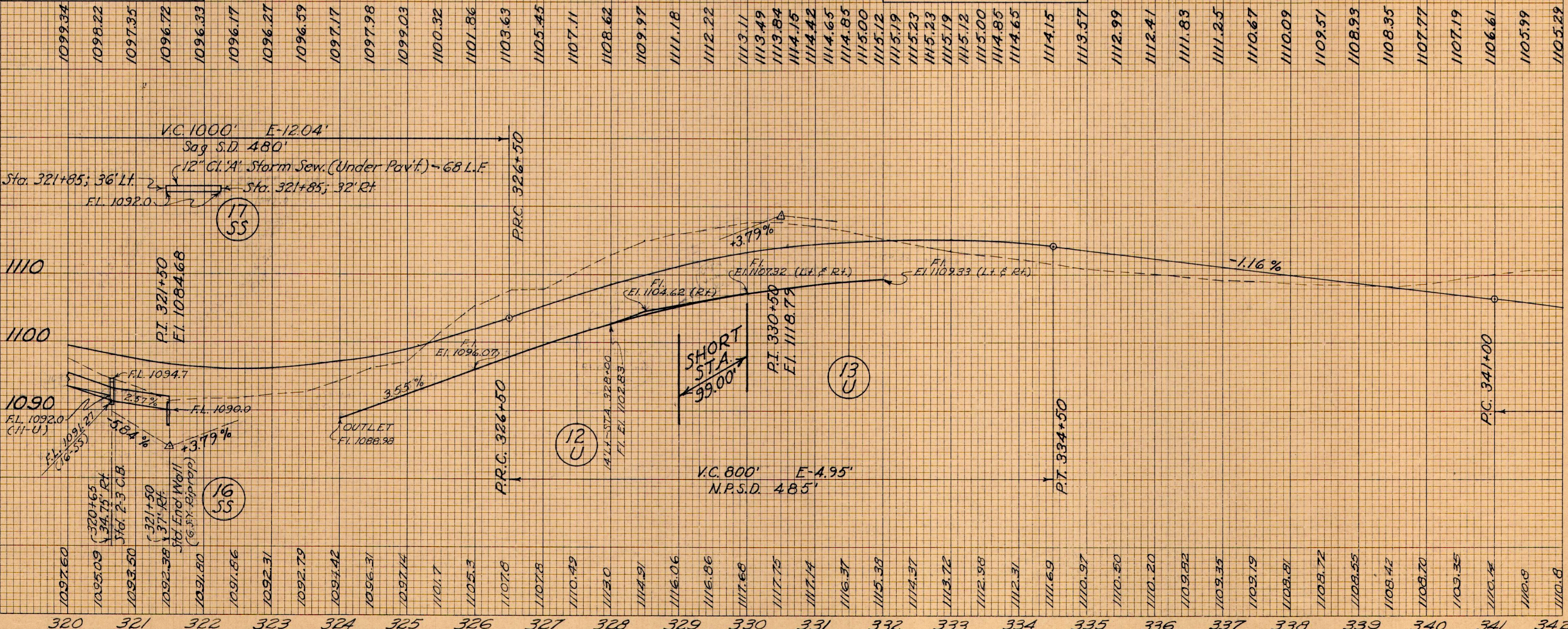


P.I. 324+41.51
 $\Delta = 25^\circ-22'-30" Lt.$
 $\Delta_c = 13^\circ-22'-30"$
 $D = 4^\circ-00'$
 $L_s = 300.00'$
 $\theta = 6^\circ-00'$
 $p = 2.62'$
 $k = 149.95'$
 $X_c = 299.67'$
 $Y_c = 10.46'$
 $R = 1432.40'$
 $T_s = 473.02'$
 $E_s = 38.54'$
 $L.C. = 334.38'$



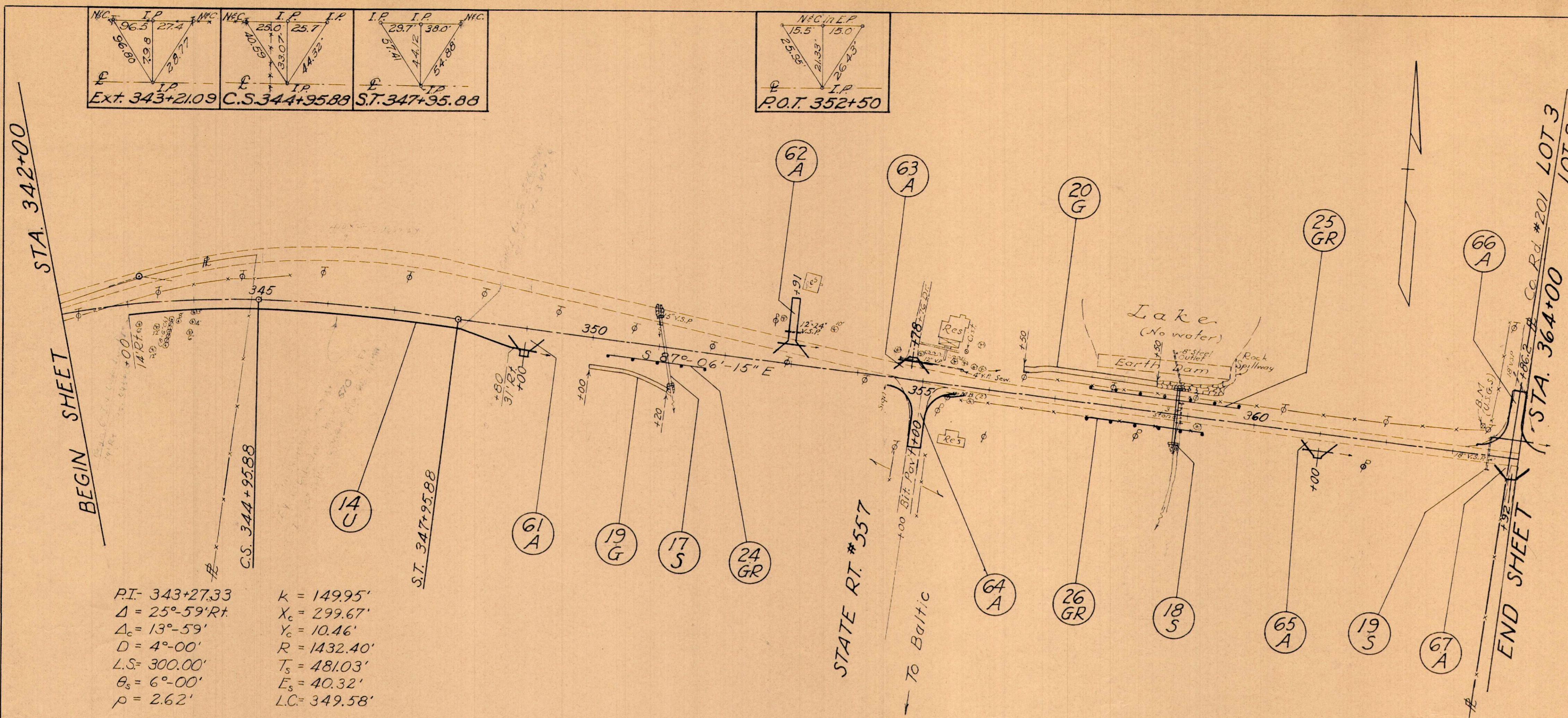
B.M. ELEV. 1092.26
 Top conc. slab
 90' RT. STA. 320+90

B.M. ELEV. 1111.07
 Top conc. Wool Mill
 69' RT. STA. 333+90

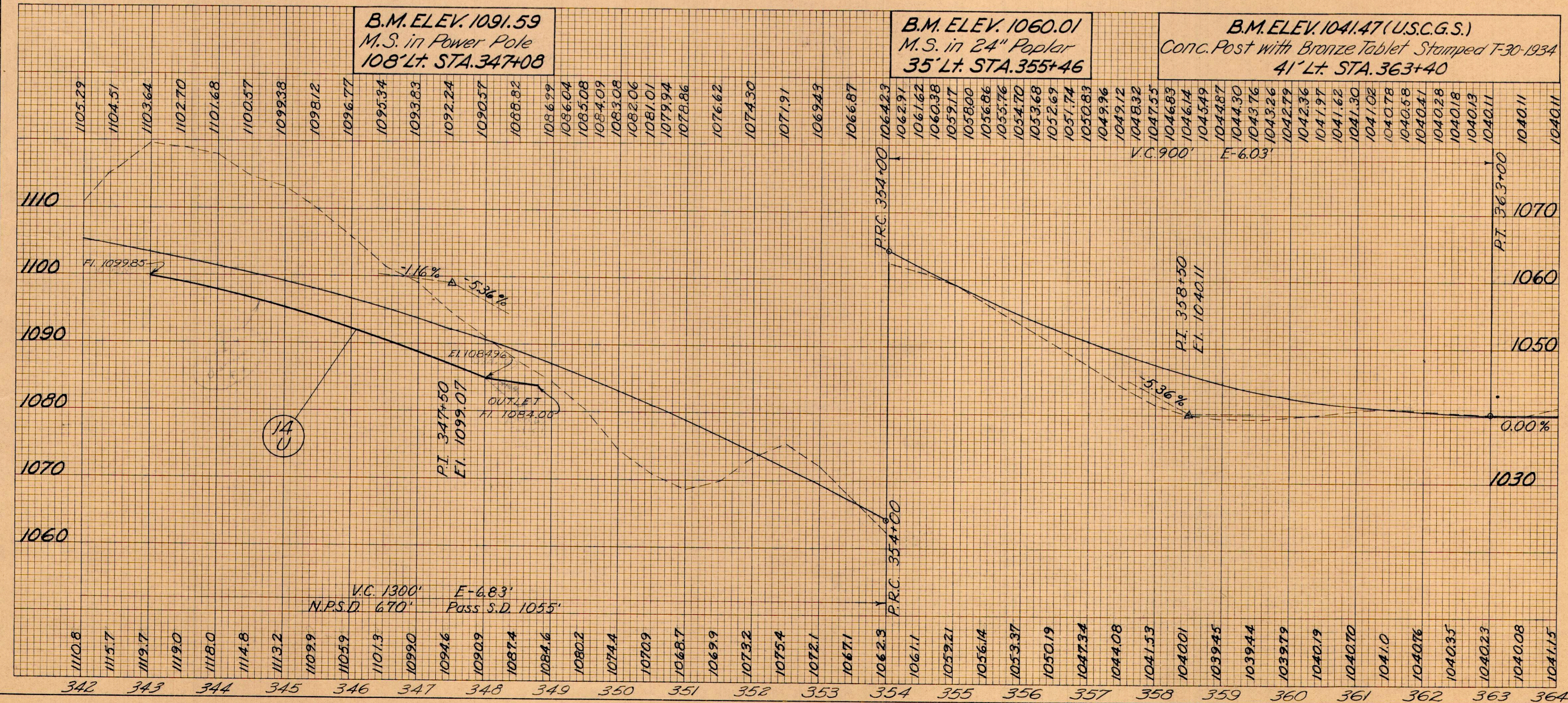


REF. NO.	STATION TO STATION	SIDE	7-35 Surface Course Cu.Yds.	7-30 Prime Coat Cu.Yds.	B-19 Aggr. Base Cu.Yds.	Con. crete Class "E" Cu.Yds.	Excavation Structures Cu.Yds.	Excavation Channels Cu.Yds.	Excavation Metal Sec. Mea (g/cd) Lin.Ft.	Pipe for Driveways Lin. Ft.	Underdrain	Storm Sewer	Removals	SEE SHEET NO.
49-A	321+00	RT.	13.5	85	46									
50-A	330+70	LT.	8.0	50	20									
51-A	330+70	RT.	7.0	44	18									
52-A	332+50	RT.	4.7	30	12									
53-A	332+65	LT.	4.0	25	10									
54-A	332+98.5	RT.	4.0	25	10									
55-A	333+68	RT.	7.2	46	18									
56-A	334+59	LT.	7.2	46	18									
57-A	335+50	RT.	7.7	48	19									
58-A	336+30	RT.	6.5	41	16									
60-A	341+00	LT.												
15-S	322+90	±				10.6	18	361	100					
16-S	336+46	±												
11-U	320+00 to 320+65	RT.												
12-U	324+00 to 332+00	LT.												
13-U	328+00 to 332+00	RT.												
15-SS	320+00 to 321+45	RT.												
16-SS	320+00 to 321+50	RT.												
17-SS	321+55	±												
TOTALS														

PLAN & PROFILE-- STA. 320+00 TO STA. 342+00

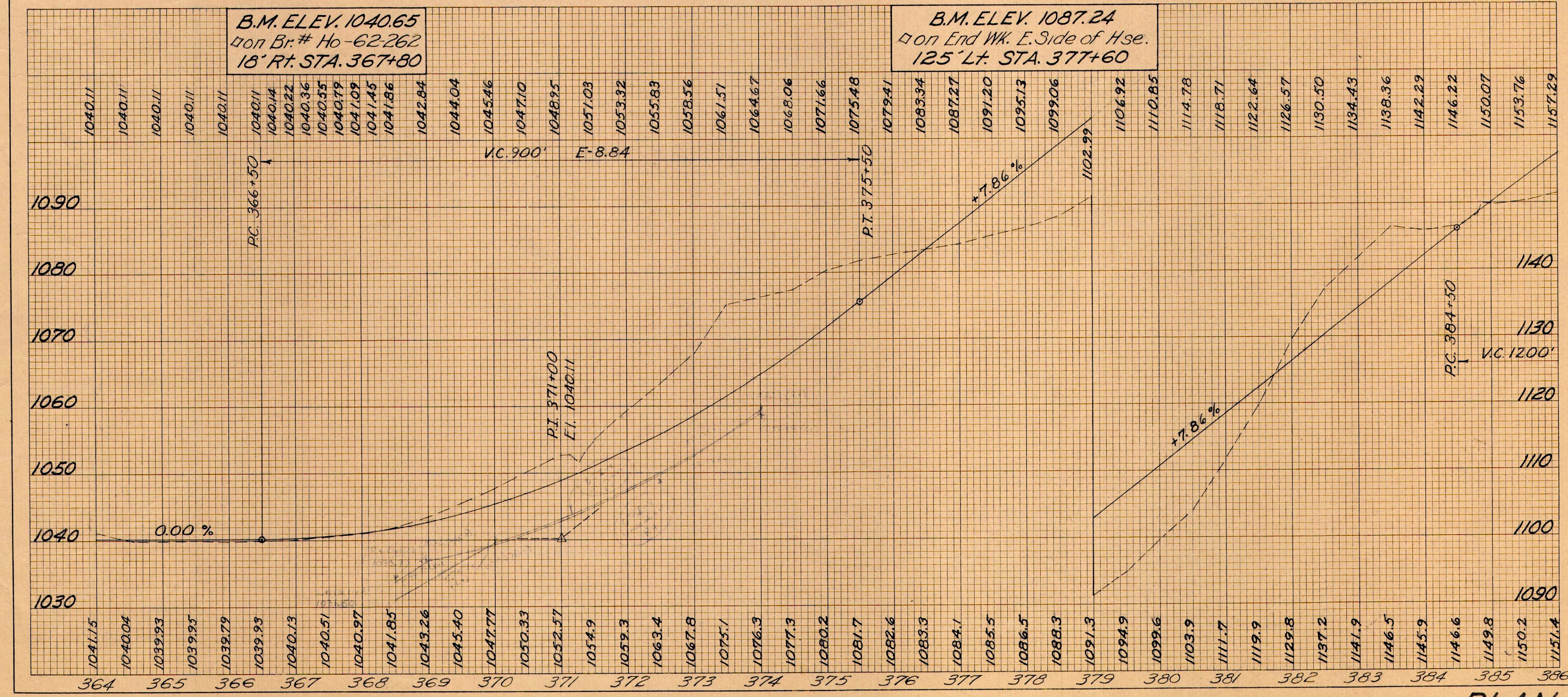
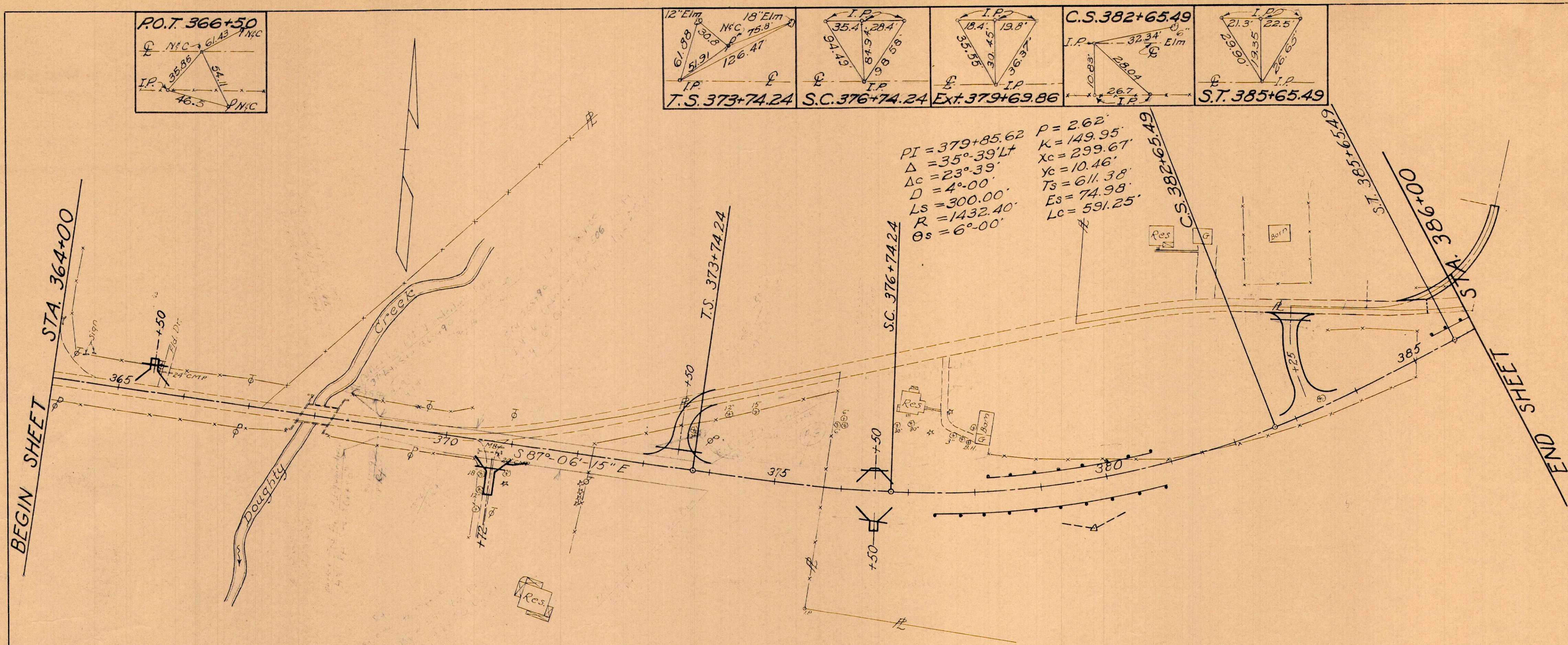


P.I. 343+27.33 $k = 149.95'$
 $\Delta = 25^\circ 59' R$ $X_c = 299.67'$
 $\Delta_c = 13^\circ 59'$ $Y_c = 10.46'$
 $D = 4^\circ 00'$ $R = 1432.40'$
 $L.S. = 300.00'$ $T_s = 481.03'$
 $\theta_s = 6^\circ 00'$ $E_s = 40.32'$
 $\rho = 2.62'$ $L.C. = 349.58'$



REF. NO.	STATION TO STATION	SIDE	T-35 Surface Course Cu.Yds.	T-30 Prime Coat Gals.	B-119 Appl. Base Cu.Yds.	Paved Gutter Type 1 L.F.	Pipe Roadway Culv. L.F.	Pipe Re-Cul. Sec. M. (6.46) L.F.	Con-crete Driveways (Cl. E) C.Y.	Pipe for Driveways (12" 15" 18" Lin. Ft)	Structure	Channel Excavation	Dump Rock Protection	12" Storm Sew. Ch. L.F.	12" Storm Sew. Ch. Underfoot	Pipe Special 16" Bor. Pipe	G" Pipe Underdrain	Rip' rep	Pipe L.F. C.Y.	Removals	Exist. Pavt. Flex. Type S.Y.	Guard Rail Roadway Way Lin. Ft.	
61-A	342+00 to 343+00	Rt.			14																		
62-A	343+00 to 344+00	Lt.	9.0	57	23					28													
63-A	344+00 to 345+00	Lt.	4.0	25	10					42													
64-A	345+00 to 346+00	Rt.	16.1	106	59					40													
65-A	346+00 to 347+00	Rt.			12																		
66-A	347+00 to 348+00	Lt.	15.6	103	57																		
67-A	348+00 to 349+00	Rt.			12																		
24-GR	350+25 to 351+75	Rt.																					
25-GR	351+75 to 352+25	Lt.																					
26-GR	352+25 to 353+75	Rt.																					
19-G	350+00 to 351+20	Rt.																					
20-G	351+20 to 352+50	Lt.																					
17-S	351+09	±																					
18-S	351+88.75	±																					
19-S	351+56	±																					
14-U	343+00 to 348+80	Rt.																					
345+00(±) to 349+00(±) Lt.																							
TOTALS																							

PLAN & PROFILE-- STA. 342+00 TO STA. 364+00

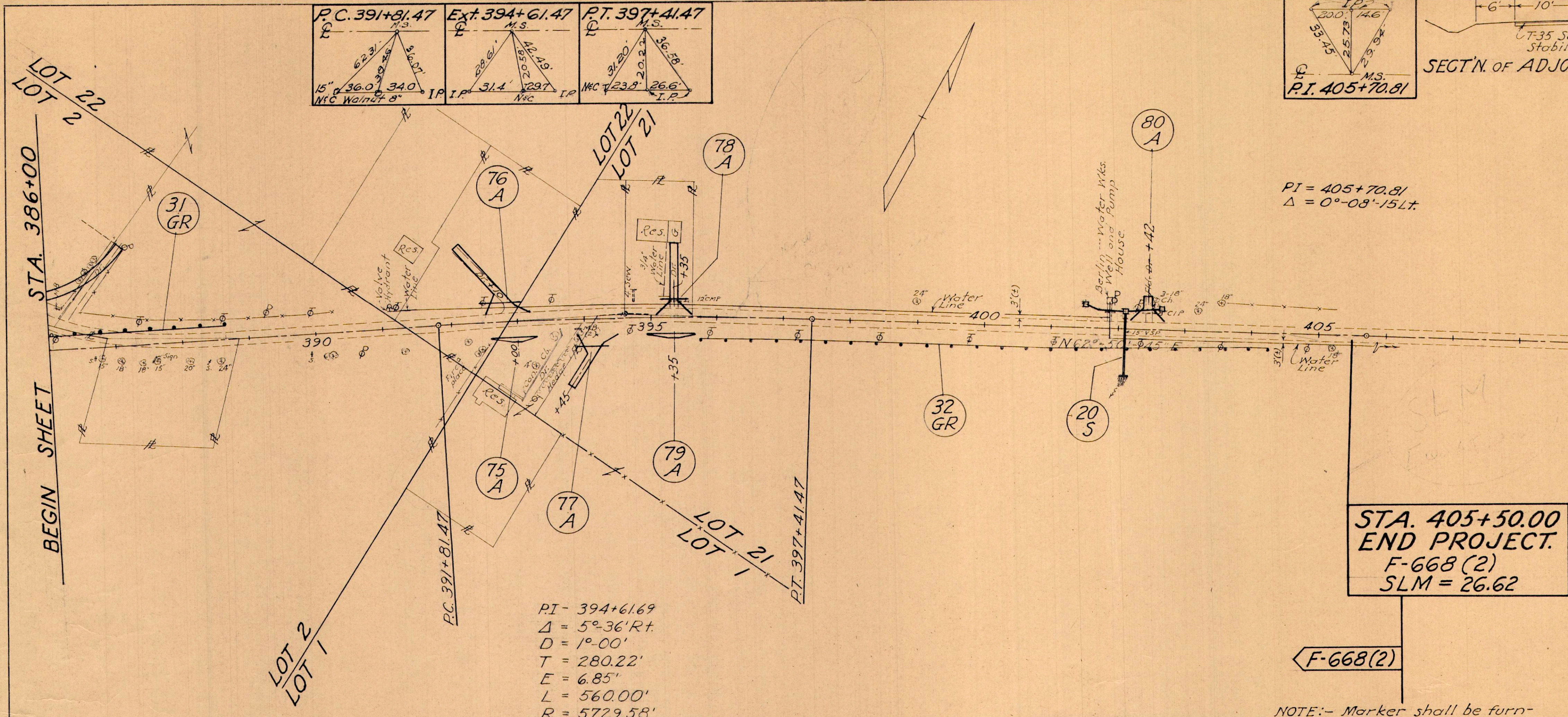


REF. NO.	STATION TO STATION	SIDE	T-35 Surface Course Cu.Yds.	B-35 Course Leveling Cu.Yds.	T-30 Prime Coat Ga'l's.	B-35 Asphalt Base Cu.Yds.	B-119 Asphalt Base Cu.Yds.	I-22 Asphalt Subbase Cu.Yds.	Pipe For Driveways Lin. Ft.	ESTIMATED QUANTITIES	Removals	SEE SHEET NO.	Guard Rail Roadway Lin. Ft.
A 365+50	RT								15" 18" 24" 12"				
A 370+72	RT								38				
A 373+50	LT												
A 376+50	LT								42				
A 383+25	LT												
A P.V. D.F. To A 383+25	LT								58				
<p>GR-367+05.82 to 368+57.16 RT</p> <p>GR-367+54.84 to 368+91.47 LT</p> <p>GR-377+40.0 to 380+55.16 LT</p> <p>GR-379+20.0 to 380+73.54 LT</p> <p>GR-385+40 to 386+00 LT</p>													
<p> $\# 63.36$ $\# 88.36$ 350.0 250.0 60.0 </p> <p>* Deduct 49.14 lin. ft. for Bridge limits from this quantity</p>													
													811.72

PLAN & PROFILE-- STA. 364+00 TO STA. 386+00

SECT'N OF ADJOIN'G. PAV'T. - END OF PROJ.
 T-35 Surface on Stabilized Base.

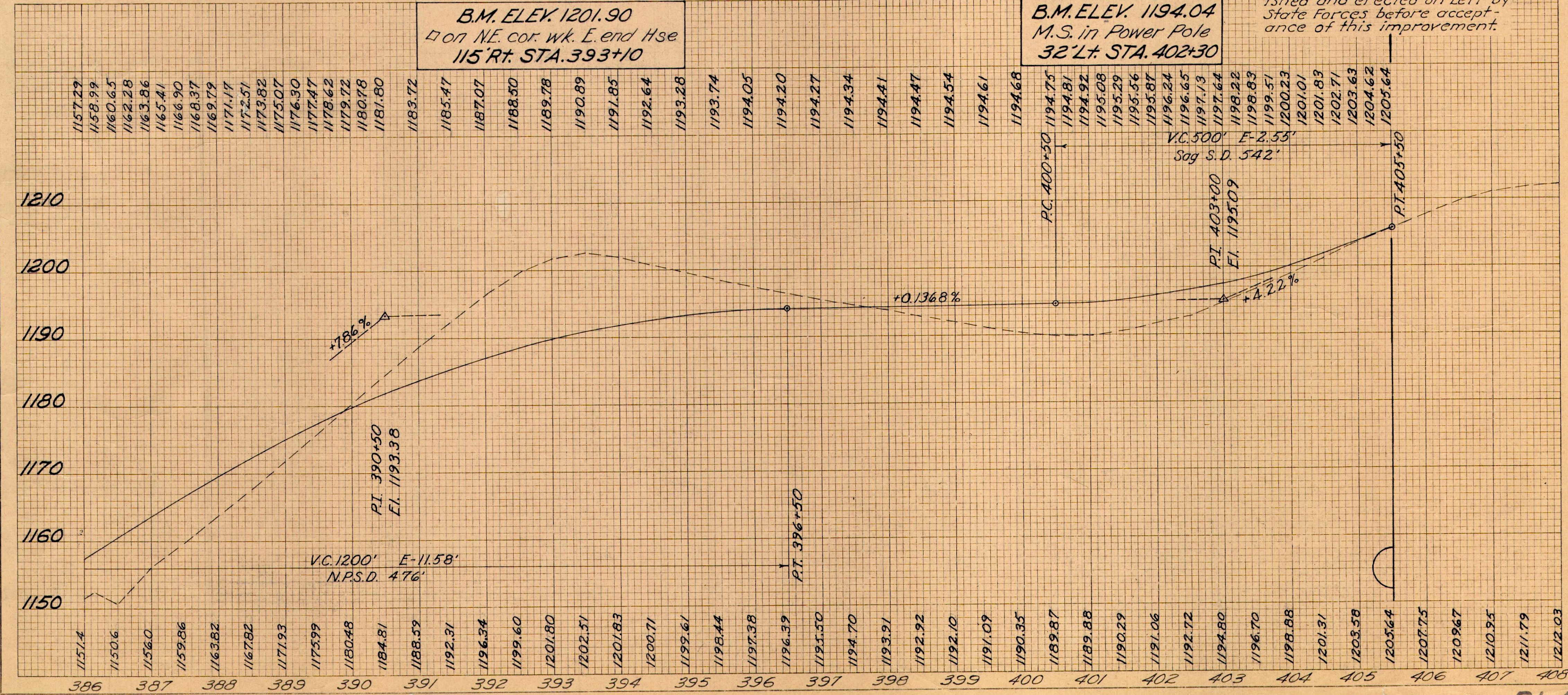
HOL-62-(21.08-21.38)



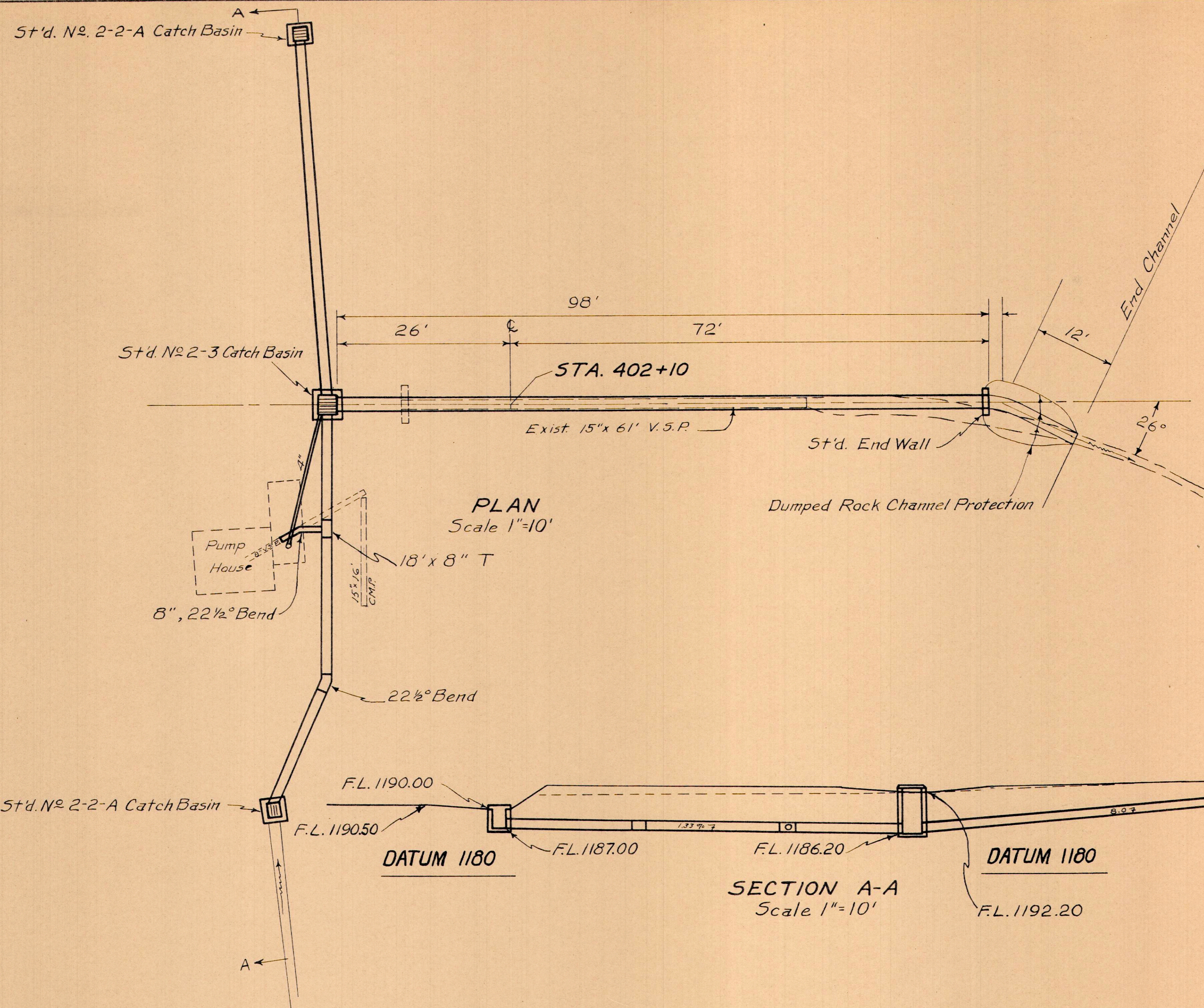
PI = 405+70.81
 $\Delta = 0^\circ-08'-15.14''$

STA. 405+50.00
 END PROJECT.
 F-668 (2)
 SLM = 26.62

NOTE: - Marker shall be furnished and erected on Left by State Forces before acceptance of this improvement.



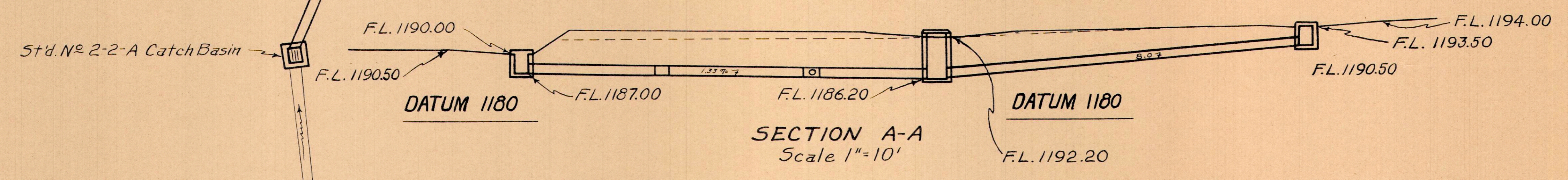
REF. NO.	STATION TO STATION	SIDE	T-35 Surface Course	T-30 Prime Coat	B-35 Asphalt. Base	B-119 Aggr. Base	I-22 Aggr. Subbase	Concrete	Pipe for Driveways	Structure Excavation	Storm Sewer	Removals	Catch Basin	Guard Rail
			Cu. Yds.	Gal's	Cu. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Lin. Ft.	C.Y.	L.F.	Lin. Ft.	Eq. Ea.	Lim. Ft.
75-A	393+00	Rt.	1.7	11		4.3			58		4"			
76-A	393+10	Lt.	14.0	85		34			46		8"			
77-A	394+45	Rt.		63		30			42		4"	18		
78-A	395+35	Rt.	9.9	11		4.3			42		4"	19		
79-A	395+35	Rt.	1.7			16					4"			
80-A	402+42	Lt.									4"			
31-GR-386+00 to 388+65 Lt.														
32-GR-395+75 to 404+25.77 Rt.														
20-S 402+10														
TOTALS								0.4			10	87		265 850



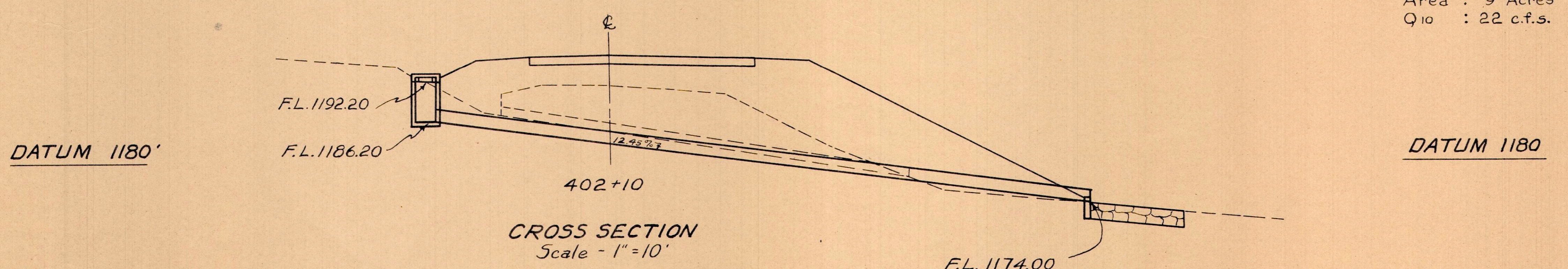
WORK REQUIRED
Build St'd. Pipe Culvert and St'd. No. 2-3 Catch Basin as Shown

ESTIMATED QUANTITIES

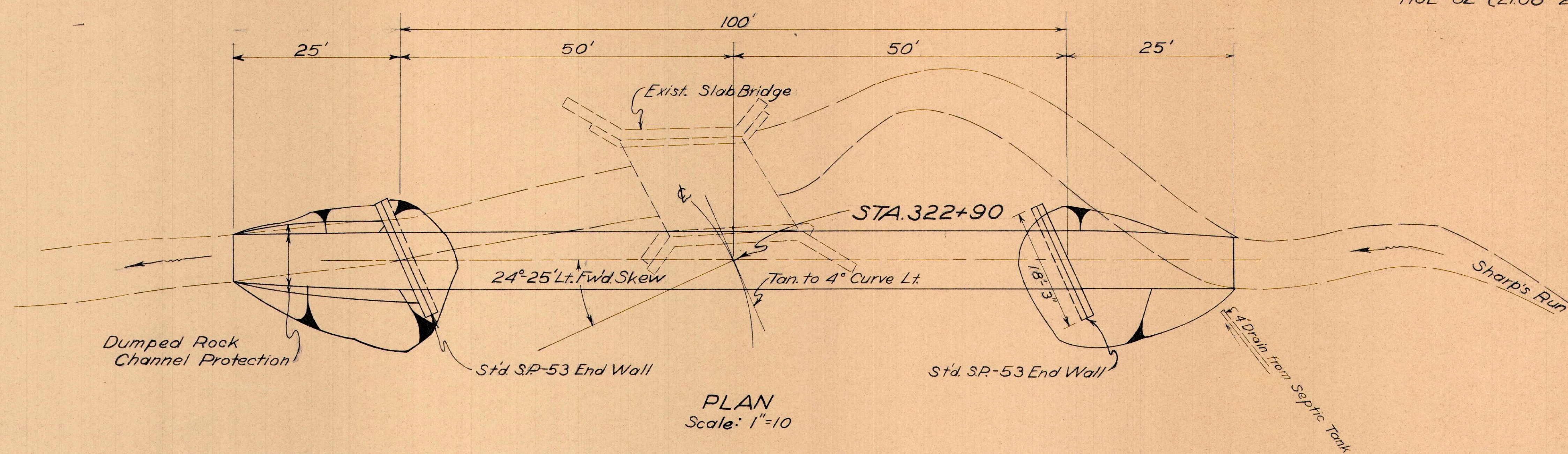
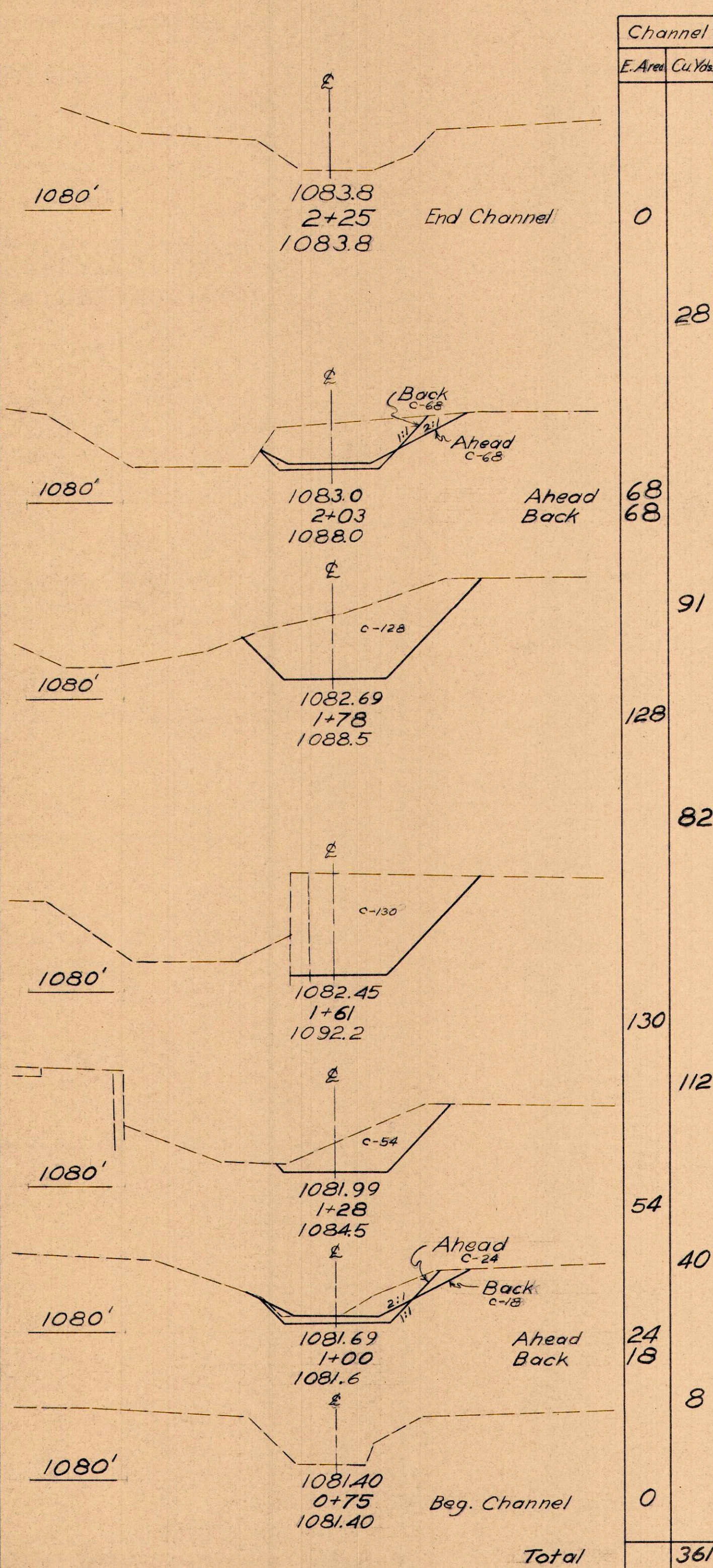
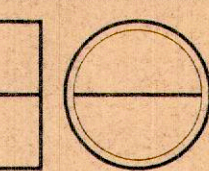
24" Pipe for Roadway Culverts	98	L.F.
Excavation for Structures	59	C.F.
Concrete for Structures (Class E)	0.4	C.Y.
St'd. No. 2-3 Catch Basin	1	Each
St'd. No. 2-2-A Catch Basin	2	Each
18" Class A Storm Sewer	108	L.F.
Pipe Removed (15" and Under)	87	L.F.
Removal of Portions of Existing Structures	1	C.Y.
18" x 8" T, Pipe Special, Class A Storm Sewer	1	Each
18", 22 1/2° Bend, Pipe Special, Class A Storm Sewer	1	Each
Dumped Rock Channel Protection	10	C.Y.
8", 22 1/2° Bend, Pipe Special Class A Storm Sewer	1	Each
8" Class A Storm Sewer	6	L.F.
4" Class A Storm Sewer	10	L.F.



Area : 9 Acres
Q₁₀ : 22 c.f.s.



STA. 402+10
24" x 98' PIPE CULVERT

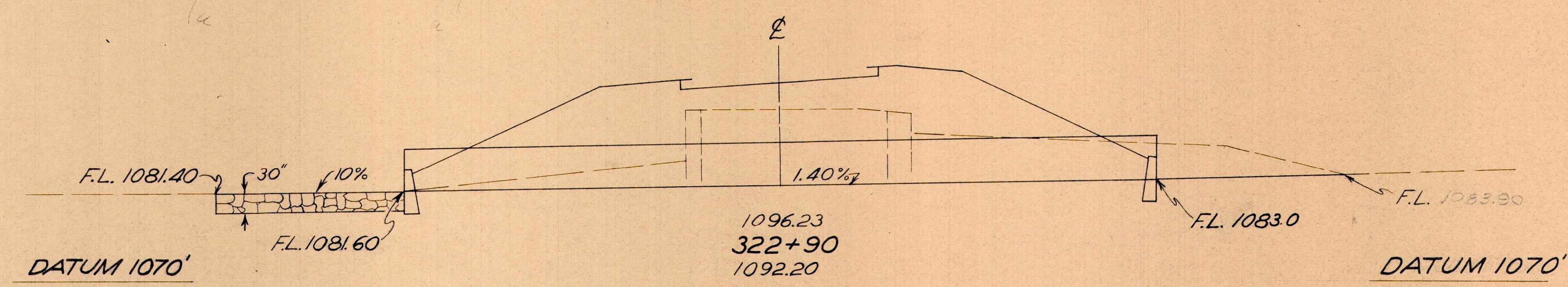


WORK REQUIRED
Build Std Pipe Culvert As Shown
ESTIMATED QUANTITIES

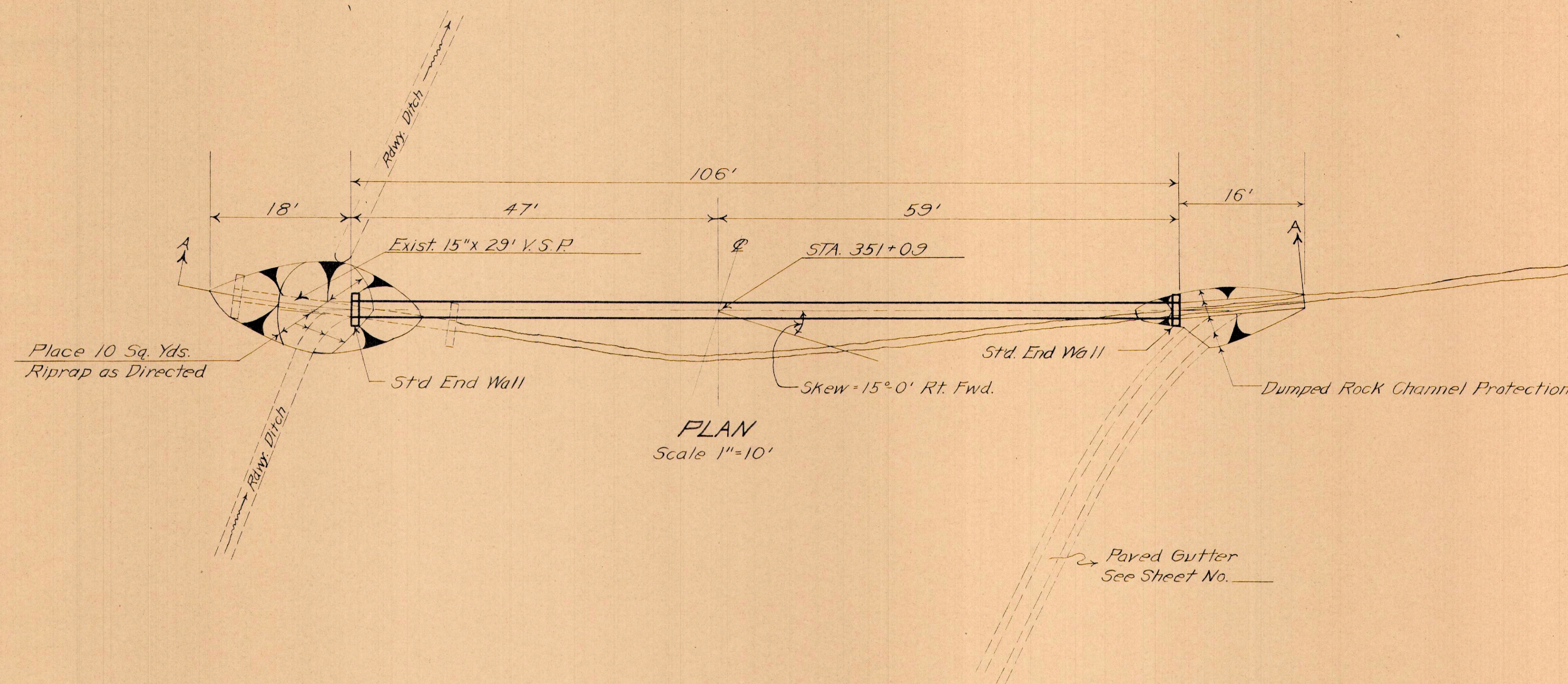
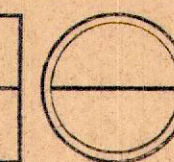
8'-7"x5'-11" Sectional Corr. Metal Plate Arch	100 L.F.
Structure - Sec. M-6.4(g)(d)	18 C.Y.
Excavation for Structures	361 C.Y.
Channel Excavation	106 C.Y.
Concrete for Structures (Class E)	24 C.Y.
Dumped Rock Channel Protection	
Removal of Existing Structure	Lump Sum

Area : 336 acres
Q_o : 246 c.f.s.

Note: ~ For details not shown see Std. Dw'g S.P.-53
Plates shall be formed with 2" corrugations and shall be No. 10 gage for all plates except bottom and corner plates which will be No. 8 gage.



STA. 322+90
8'-7"x5'-11" x 100' SECT. CORR. METAL PIPE ARCH STRUCT.



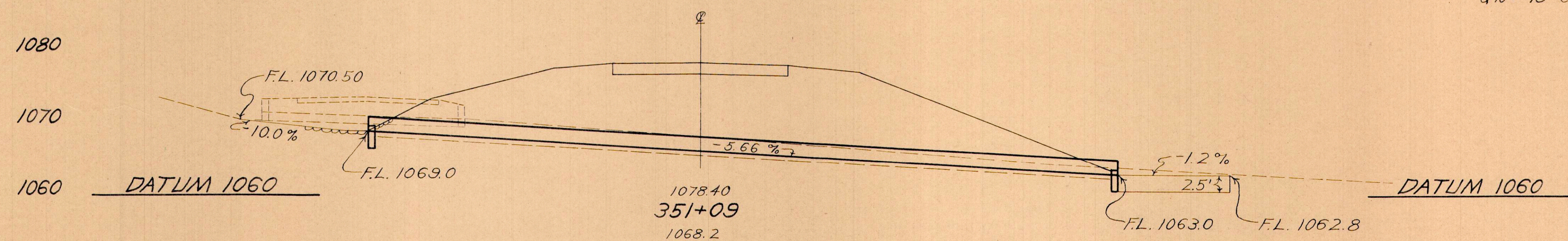
PLAN
Scale 1"=10'

WORK REQUIRED
Build Std Pipe Culvert as shown.

ESTIMATED QUANTITIES

24" Pipe for Roadway Culvert	106 Lin. Ft.
Excavation for Structures	34 Cu. Yds.
Channel Excavation	5 Cu. Yds.
Concrete for Structures (Class 'E')	0.80 Cu. Yds.
Riprap	10 Sq. Yds.
Dumped Rock Channel Protection	8 Cu. Yds.
Pipe Removal (15")	29 Lin. Ft.
Removal of Portions of Exist. Structure	2 Cu. Yds.

Area: 10 acres
Q₁₀: 15 c.f.s.



SECTION-A-A
Scale 1"=10'

STA. 351+09
24" x 106' PIPE CULVERT

17
S