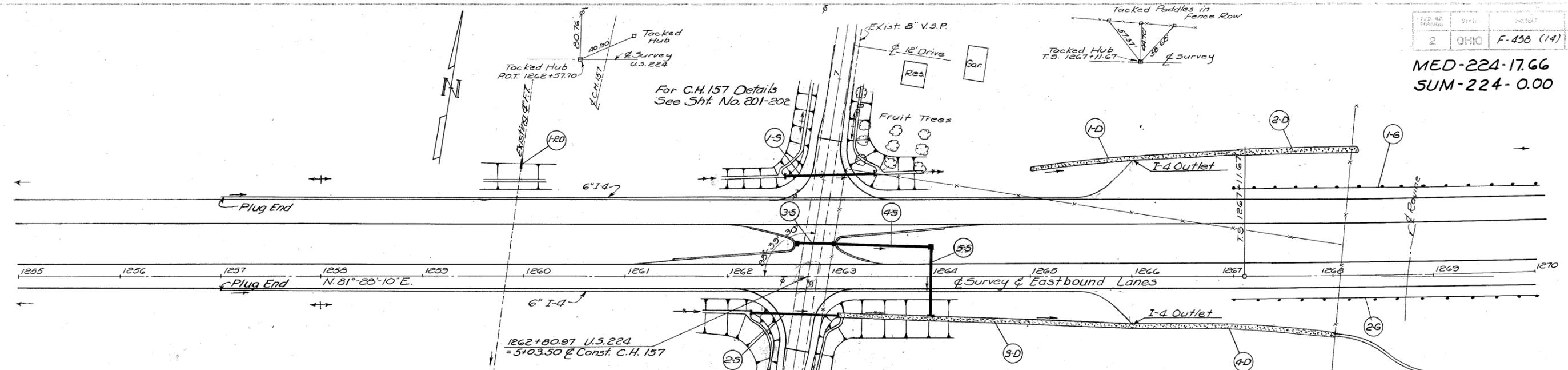


MED-224-17.66
SUM-224-0.00



(C) STORM SEWERS

Ref No	Station		Side	I-2				I-8		S-1	
	From	To		Cl. A" St. Under Pavt.	Class "B" Storm Sewer Under Pavt.	Cl. B" Storm Sewer Basin	Std. No. Catch Basin	Std. No. Catch Basin	Conc. C/E for Endwalls		
1-S	1262+55	1263+45	Lt.	15" U.P.A.	12" U.P.A.	12" U.P.A.	12" U.P.A.	12" U.P.A.	1	0.52	
2-S	1262+22	1263+10	Rt.		88					0.60	
3-S	1262+59	1263+04	Lt.		38			2			
4-S	1263+04	1264+00	Lt.			94			1	0.26	
5-S	1264+00		Lt.						2	1.38	
Totals				90	88	38	66	94	1	2	

(D) DITCHES

Ref No	Station		Side	I-10		I-14	
	From	To		Sodding	Type 1 Paved	So. Yds.	Lin. Ft.
1-D	1265+00	1267+00	Lt.	133			
2-D	1267+00	1268+25	Lt.	125			
3-D	1263+10	1266+00	Rt.	193			
4-D	1266+00	1268+00	Rt.	156			
5-D	1268+00	1270+00	Rt.	44	200		
Totals				651	200		

UNDERDRAINS

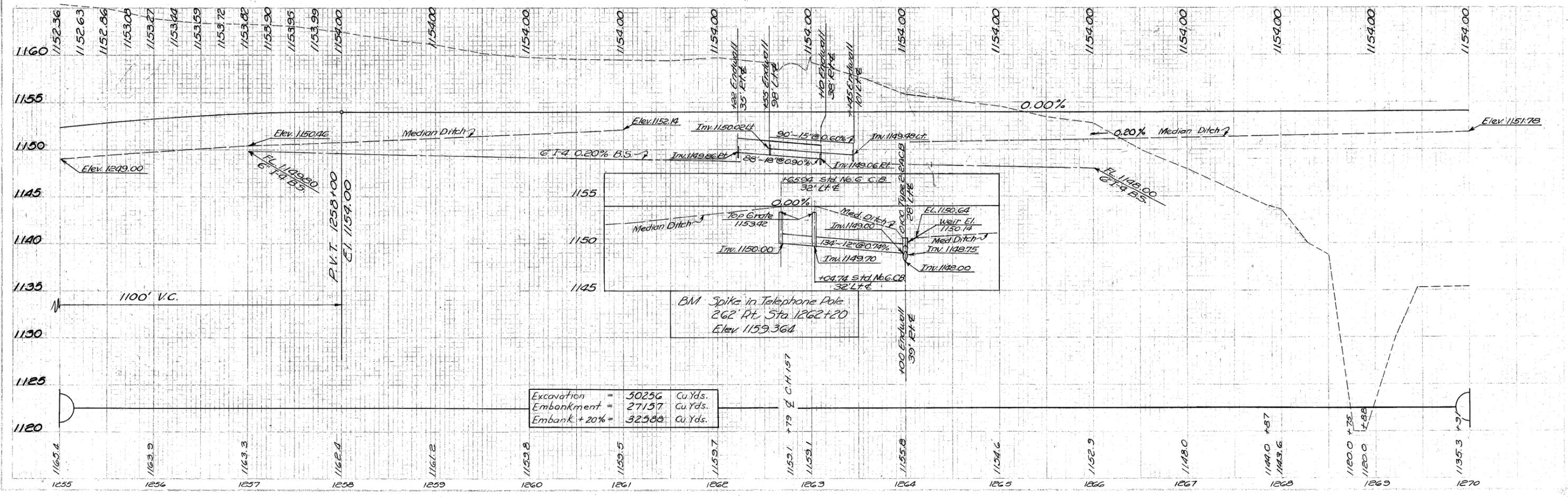
Station	Side	I-4.6" Pipe Underdr.	I-4.6" CMP Outlets
From 1257+00		910'	10
To 1266+00		912'	10
Total		1822	20

(E) ROADWAY DRAINAGE

Ref. No.	Station	Size	I-3 Outlet Pipe Lin. Ft.
1-RD	1259+98	6"	10
Total			10

(F) GUARD RAIL I-15

Ref. No.	Station		Side	Net Length Lin. Ft.
	From	To		
1-G	1267+00	1270+00	Lt.	300
2-G	1267+00	1270+00	Rt.	300
Total				600

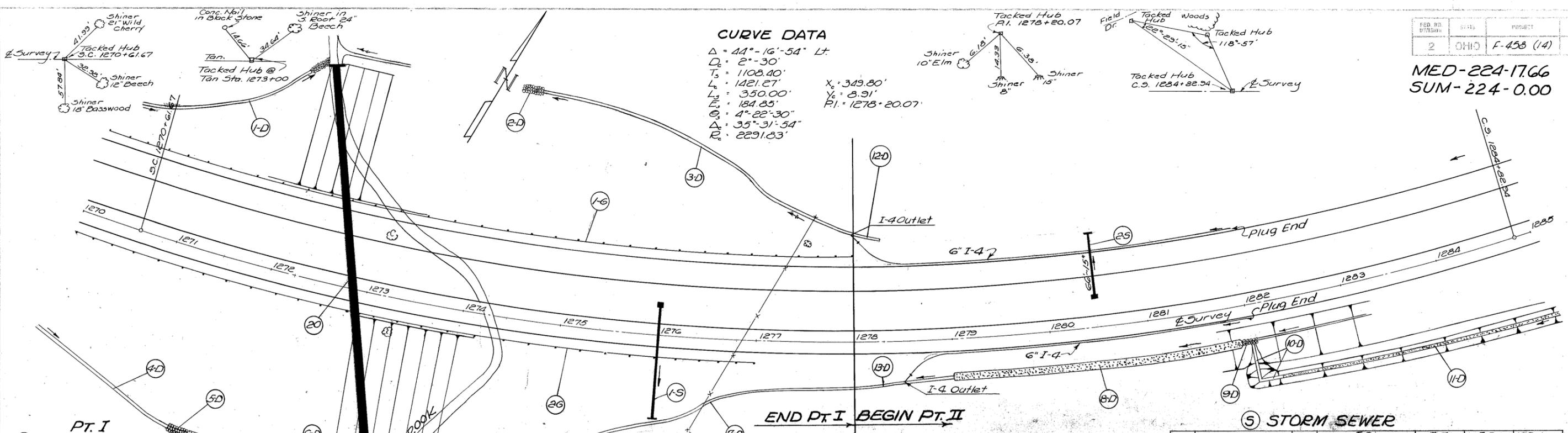


1255+00 - 1270+00

MED-224-17.66
SUM-224-0.00

CURVE DATA

Δ = 44°-16'-54" Lt.
D_c = 2°-30'
T_s = 1108.40'
L_s = 1421.27'
L_c = 350.00'
E_s = 184.85'
C_s = 4°-22'-30"
Δ_c = 35°-31'-54"
R_c = 2291.83'
X_c = 349.80'
Y_c = 8.31'
P.I. = 1278+20.07



**PT. I
③ GUARD RAIL I-15**

Ref. No.	Station	Side	Net Length
	From To		Lin. Ft.
1-6	1270+00 1278+00	Lt.	800
2-6	1270+00 1277+00	Rt.	700
			1500

STRUCTURES TO SPAN UNDER

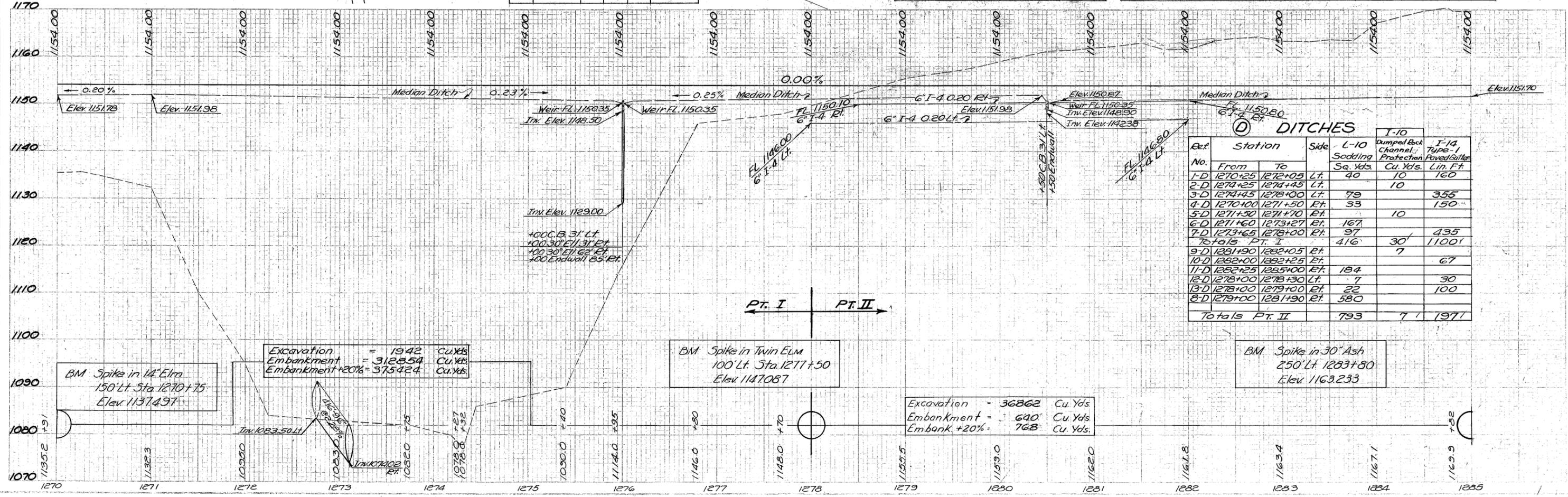
Str. No.	Station	Proposed Type	Size	Lgt.	Details on Sheet
20	1278+84	Pipe	96" dia	264'	

UNDERDRAINS - Pt. II

Station	Side	I-4.6" Pipe Under Dr.	I-4.6" CMP Outlet
From To		Lin. Ft.	Lin. Ft.
1282+00 1278+00	Lt.	352	10
1282+00 1278+00	Rt.	390	10
Total		742	20

⑤ STORM SEWER

Ref. No.	Station	Side	I-2		I-5		I-8		I-1	
			15" Class 20 Storm Sewer Under Part. Sec. Mechanical Lin. Ft.	15" Storm Sewer Specials Sec. M.G. Ac. 30" E/I Lin. Ft.	Pipe Specials 30" Each	SK. 22-A Catch Basin Each	C/I' Conc. for Endwalls Cu. Yds.	C/I' Conc. for Endwalls Cu. Yds.		
1-5	1276+00	E	60	56	2	1	0.26			
2-5	1280+50	E	66			1	0.26			



① DITCHES

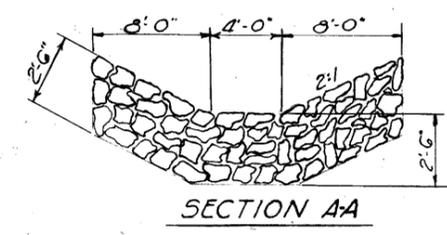
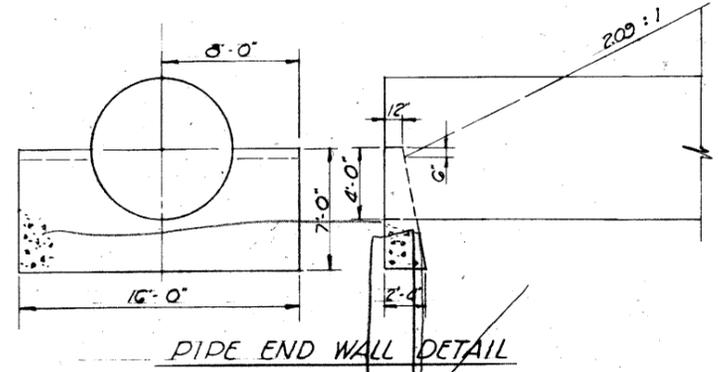
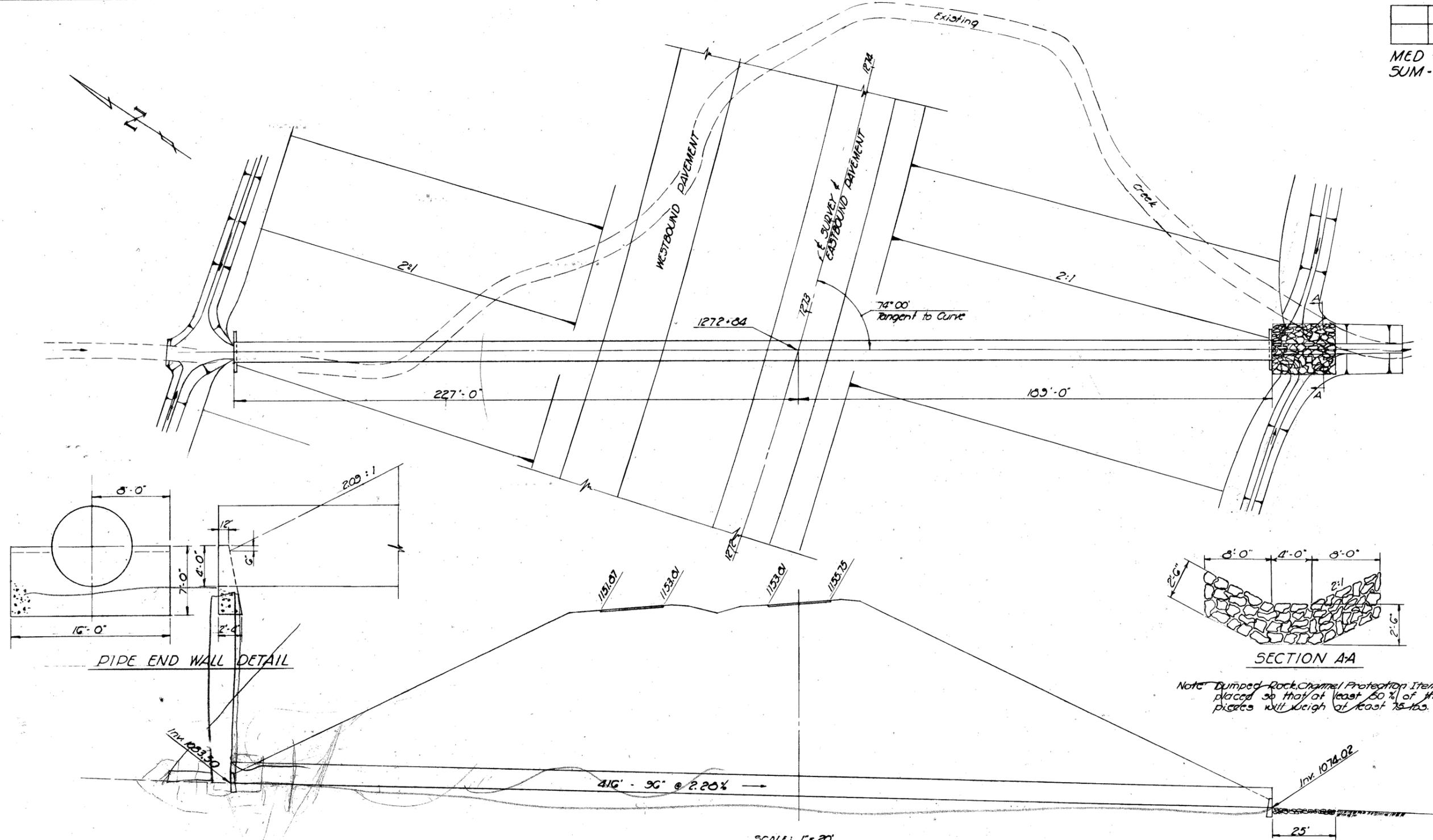
Ref. No.	Station	Side	I-10		I-14	
			L-10 Sodding Sq. Yds.	Dumped Rock Channel Protection Cu. Yds.	Type-1 Paved Gutters Lin. Ft.	Type-1 Paved Gutters Lin. Ft.
1-D	1270+25 1272+05	Lt.	40	10	160	
2-D	1274+25 1274+45	Lt.		10		
3-D	1274+45 1278+00	Lt.	79		355	
4-D	1270+00 1271+50	Rt.	33		150	
5-D	1271+50 1271+70	Rt.		10		
6-D	1271+60 1273+27	Rt.	167			
7-D	1273+65 1278+00	Rt.	97		435	
Totals Pt. I			416	30	1100	
9-D	1281+90 1282+05	Rt.		7		
10-D	1282+00 1282+25	Rt.			67	
11-D	1282+25 1285+00	Rt.	184			
12-D	1278+00 1278+30	Lt.	7		30	
13-D	1278+00 1279+00	Rt.	22		100	
8-D	1279+00 1281+90	Rt.	580			
Totals Pt. II			793	7	1971	

Excavation = 1942 Cu. Yds.
Embankment = 3128.54 Cu. Yds.
Embankment +20% = 3754.24 Cu. Yds.

BM Spike in Twin Elm
100' Lt. Sta. 1277+50
Elev. 1147.087

BM Spike in 30" Ash
250' Lt. 1283+80
Elev. 1163.233

Excavation = 36862 Cu. Yds.
Embankment = 640 Cu. Yds.
Embankment +20% = 768 Cu. Yds.



Note: Dumped Rock Channel Protection Item #10, shall be uniformly placed so that at least 50% of the pieces will weigh at least 75 lbs.

D. A. = 1139 AC
Q25 = 523 CFS

SCALE: 1" = 20'

ESTIMATED QUANTITIES

E-2	Excavation for Structures	643	Cu Yds.
E-3	Channel Excavation	20	Cu Yds.
I-10	Dumped Rock Channel Protection	50	Cu Yds.
S-1	Concrete for Structures, Class "E"	11.41	Cu Yds.
S-20	36" (1-1 Gage) Sectional Corrugated Metal Structure Sec. M-G.4(g)	416	Lin. Ft.

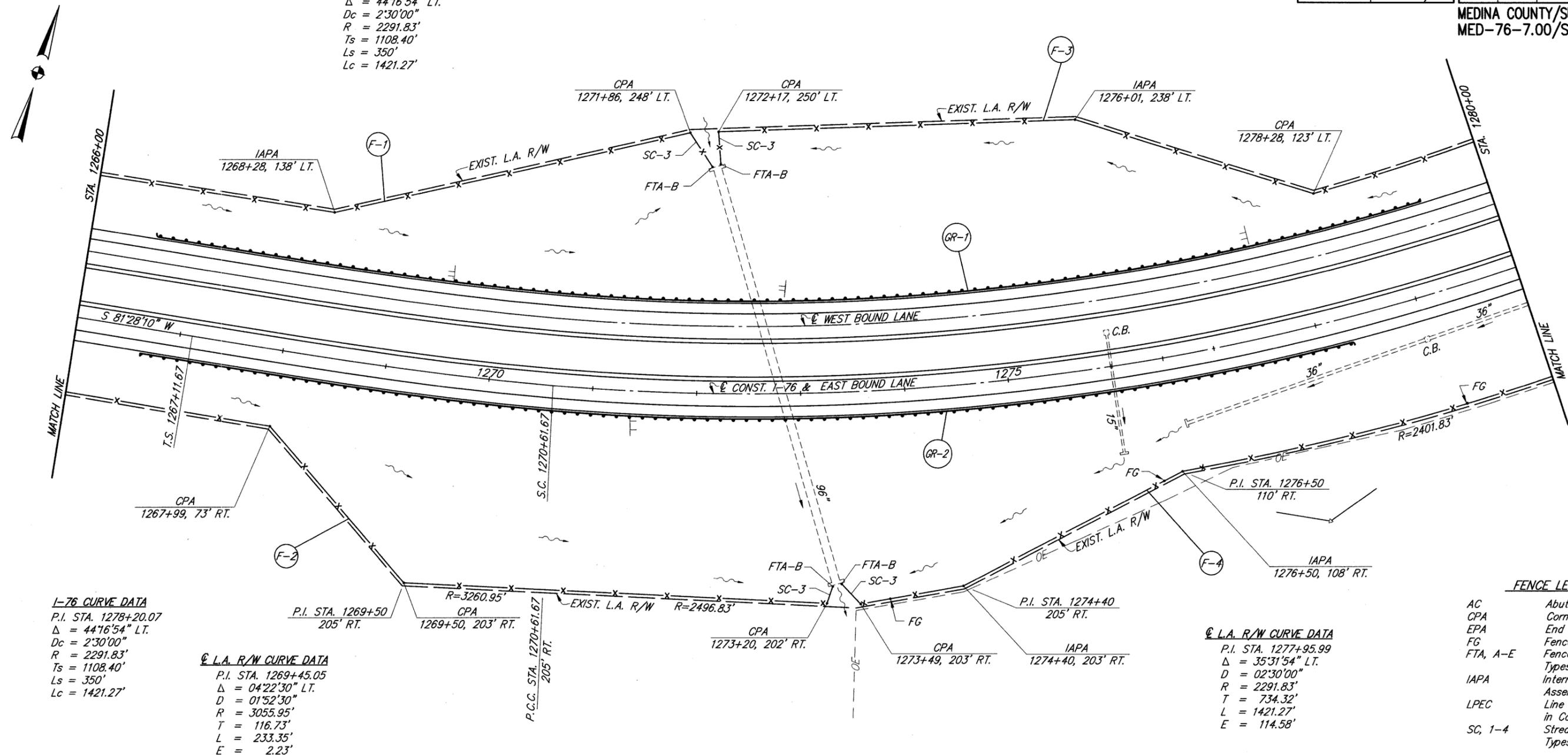
STRUCTURE NO. 20
STA. 1272+04

I-76 CURVE DATA
 P.I. STA. 1278+20.07
 $\Delta = 44^{\circ}16'54''$ LT.
 $D_c = 2'30''00''$
 $R = 2291.83'$
 $T_s = 1108.40'$
 $L_s = 350'$
 $L_c = 1421.27'$

QUANTITIES		FHWA REGION	STATE	PROJECT
CALCULATED	D.A.W. 10/92	5	OHIO	
CHECKED	P.S. 4/93			

114
330

MEDINA COUNTY/SUMMIT COUNTY
 MED-76-7.00/SUM-76-0.00



I-76 CURVE DATA
 P.I. STA. 1278+20.07
 $\Delta = 44^{\circ}16'54''$ LT.
 $D_c = 2'30''00''$
 $R = 2291.83'$
 $T_s = 1108.40'$
 $L_s = 350'$
 $L_c = 1421.27'$

⊙ L.A. R/W CURVE DATA
 P.I. STA. 1269+45.05
 $\Delta = 04^{\circ}22'30''$ LT.
 $D = 01'52''30''$
 $R = 3055.95'$
 $T = 116.73'$
 $L = 233.35'$
 $E = 2.23'$

⊙ L.A. R/W CURVE DATA
 P.I. STA. 1277+95.99
 $\Delta = 35^{\circ}31'54''$ LT.
 $D = 02'30''00''$
 $R = 2291.83'$
 $T = 734.32'$
 $L = 1421.27'$
 $E = 114.58'$

FENCE LEGEND

- AC Abutment Connection
- CPA Corner Post Assembly
- EPA End Post Assembly
- FG Fence Grounding
- FTA, A-E Fence Terminal Assembly Types "A" thru "E"
- IAPA Intermediate Anchor Post Assembly
- LPEC Line Post Encased in Concrete
- SC, 1-4 Stream Crossing, Types 1 thru 4

- Pavement Transition
- New Pavement

REFERENCE NO.	SIDE	STATION		GUARDRAIL REMOVED	GUARDRAIL TYPE 5	ANCHOR ASSEMBLY, TYPE E	ANCHOR ASSEMBLY, TYPE T	BARRIER REFLECTOR, TYPE A
		FROM	TO					
				L.F.	L.F.	EA.	EA.	EA.
GR-1	LT.	1266+65	1279+30.03	1225	1200	1	1	13
GR-2	RT.	1266+64.79	1278+29.99	1164	1150	1	1	13
TOTALS				2389	2350	2	2	26

REFERENCE NO.	SIDE	STATION		FENCE, TYPE 47, AS PER PLAN	GROUND ROD
		FROM	TO		
				L.F.	EA.
F-1	LT.	1266 + 0	1272 + 11.14	620	
F-2	RT.	1266 + 0	1273 + 23	818	
F-3	LT.	1272 + 19.85	1280 + 0	775	
F-4	RT.	1273 + 33	1280 + 0	722	3
TOTAL				2935	3

Job No. 91062 Date 4/21/93 Drawn By PD