

STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR GRADING, BASE, BITUMINOUS & STORM SEWER

Anoka County Highway No. 56

Between T.H.#10 And C.S.A.H.#5

From A POINT 133.49' NORTH OF S.E. COR. SEC. 28, T32 R25 To A POINT 1323.30' NORTH & 72.94' EAST OF CENTER SEC. 16, T32N R25W
Give proper reference to Section, Township and Range

GROSS LENGTH 15,767.80* FEET 2.99* MILES
BRIDGES LENGTH 0 FEET 0 MILES
EXCEPTIONS LENGTH 0 FEET 0 MILES
NET LENGTH 15,767.80* FEET 2.99* MILES

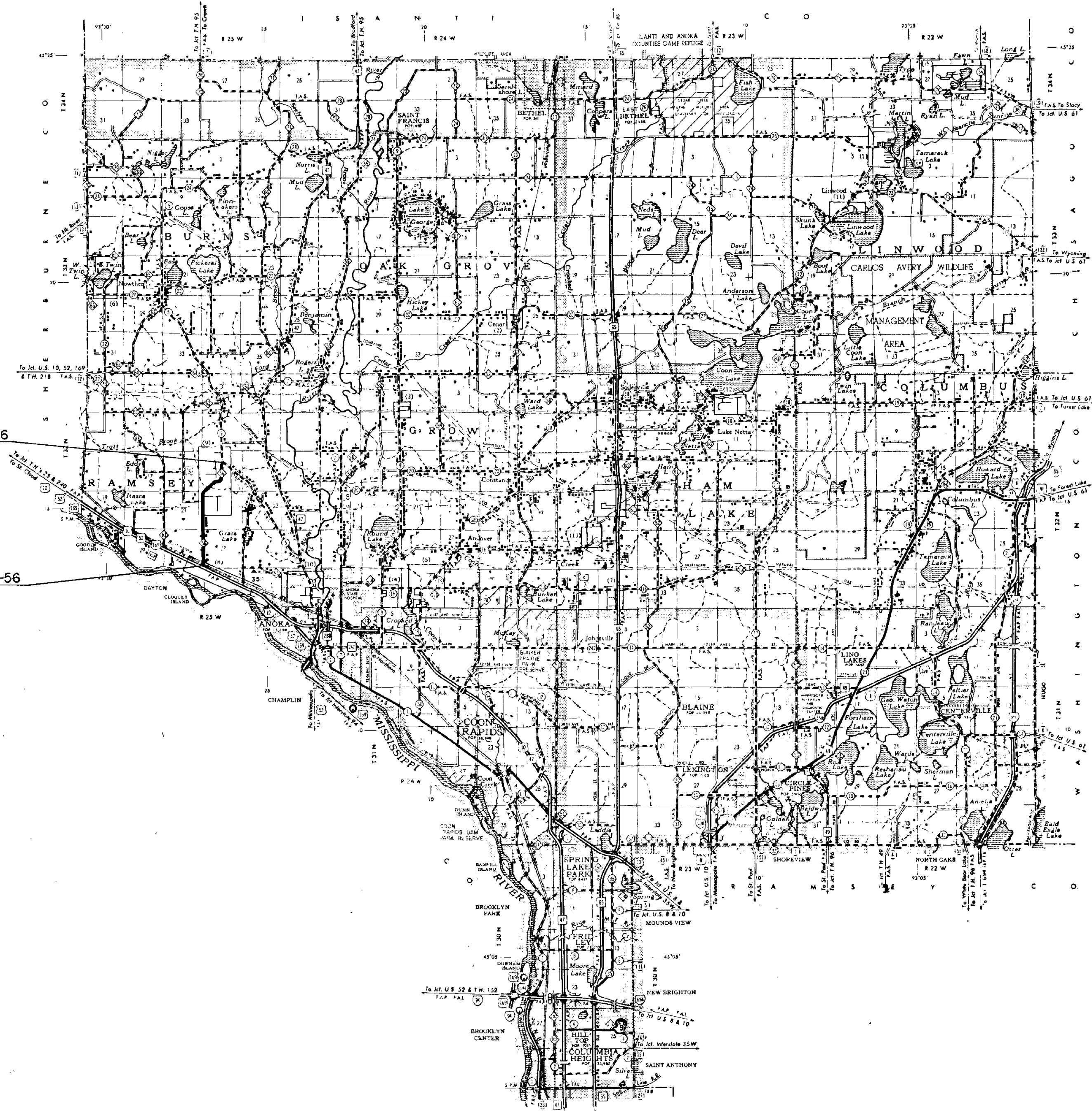
*SEE PLAN SHEETS FOR EQUATIONS

INDEX OF SHEETS

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CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT OF WAY LINE
- PRESENT RIGHT OF WAY LINE
- CONTROL OF ACCESS LINE
- PROPERTY LINE (CONV. LINE)
- VACATED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RESTRICTION WALL
- RAILROAD
- RAILROAD RIGHT OF WAY LINE
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- ELECTRIC POWER LINE
- TELEPHONE OR TELEGRAPH LINE
- JOINT TELEPHONE AND POWER
- CONDUIT
- TELEPHONE CABLE AERIAL
- TELEPHONE CABLE UNDERGROUND
- POWER CABLE UNDERGROUND
- GAS MAIN
- CULVERT
- DRAIN TILE
- SHARD BAIL
- BARRIED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SHOW FENCE
- STONE WALL OR FENCE
- HEDGE
- WATER PIPE
- CORNER PIPE
- DRAIN TILE
- SPRINGS
- MARSH
- TIMBER
- ORCHARD
- BRUSH
- NURSERY
- CATCH BASIN
- MANHOLE
- FIRE HYDRANT
- STREET LIGHT
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- CATTLE GUARD
- OVERPASS (Highway Over)
- UNDERPASS (Highway Under)
- BRIDGE
- BUILDING (One Story Frame)
- F FRAME
- STONE
- BRICK
- IRON PIPE OR ROB
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- SAND PIT
- BURNED PIT
- ROCK QUARRY
- MILEAGE CORNER



END PROJECT C.P. 79-04-56
STA. 162+68

BEGIN PROJECT C.P. 79-04-56
STA. 5+14

SCALE

INDEX MAP	VERT. $\frac{1"}{5'}$ HORIZ. $\frac{1"}{100'}$	2 MI.
PLAN & PROFILE		10'
CROSS SECTIONS		10'

DESIGN DESIGNATION

ADT (CURRENT YEAR) 3613
 ADT (FUTURE YEAR) 6142 (20 YR)
 T (HEAVY COMMERCIAL) 150-300
 9 Ton Design Soil Factor A-3, 5.0%
 Design Speed 55 MPH
 Design Speed not achieved at:
 STA. 93+75 TO STA. 108+75 45 MPH
 STA. 114+50 TO STA. 118+50 45 MPH
 OR 124+77 TO 129+23 45 MPH
 OR 132+55 TO 140+18 40 MPH

SPECIFICATIONS

THE "STANDARD" SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, DATED JAN. 1, 1978, SHALL GOVERN.

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH, IN THE CONSTRUCTION OF THIS PROJECT.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul K. Lund
COUNTY ENGINEER DATE 6-16-81

ANOKA COUNTY REG. NO. 6549

RECOMMENDED FOR APPROVAL _____ 19____
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL _____ 19____

APPROVED _____ 19____
STATE AID ENGINEER

Minn. Proj. No. _____ County Proj. No. C.P. 79-04-56
State Proj. No. _____ S.A.P. _____

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES
2031.503	FIELD LABORATORY, TYPE D	EACH	1	
2101.501	CLEARING	ACRE	3.75	
2101.502	CLEARING	TREE	103	
2101.503	GRUBBING	ACRE	3.75	
2101.507	GRUBBING	TREE	87	
2104.501	REMOVE CULVERT PIPE	LIN. FT.	310	
2104.521	SALVAGE FENCE	LIN. FT.	9,165	
0557.604	INSTALL FENCE	LIN. FT.	8,721	
2105.501	COMMON EXCAVATION	CU. YD.	51,011(P)	
2105.505	MUCK EXCAVATION	CU. YD.	2,243	
2105.525	TOPSOIL BORROW (LV)	CU. YD.	2,637	
2105.531	SALVAGED BITUMINOUS MIXTURE (LV)	CU. YD.	4,300(P)	
2130.501	WATER	M-GAL.	300	
2211.503	AGGREGATE BASE PLACED, CLASS 5	CU. YD.	9,000	
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	661	
2331.510	BINDER COURSE MIXTURE	TON	5,245	
2331.514	BASE COURSE MIXTURE	TON	4,100	
2331.516	SHOULDER COURSE MIXTURE	TON	4,000	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	210	
2341.508	WEARING COURSE MIXTURE	TON	3,500	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	5,400	
2501.511	15" C.M. PIPE CULVERT	LIN. FT.	1,624	
2501.511	18" C.M. PIPE CULVERT	LIN. FT.	288	
2501.511	15" R.C. PIPE CULVERT CL.4	LIN. FT.	58	
2501.511	18" R.C. PIPE CULVERT CL.4	LIN. FT.	90	
2501.511	24" R.C. PIPE CULVERT CL.4	LIN. FT.	130	
2501.511	36" R.C. PIPE CULVERT CL.2	LIN. FT.	85	
2501.515	12" R.C. PIPE APPONS	EACH	2	
2501.515	15" R.C. PIPE APPONS	EACH	6	
2501.515	15" C.M. PIPE APPONS	EACH	78	
2501.515	18" C.M. PIPE APPONS	EACH	12	
2501.515	18" R.C. PIPE APPONS	EACH	2	
2501.515	24" R.C. PIPE APPONS	EACH	4	
2501.515	36" R.C. PIPE APPONS	EACH	2	
2503.511	12" R.C. PIPE SEWER CL.4	LIN. FT.	192	
2503.511	15" R.C. PIPE SEWER CL.4	LIN. FT.	136	
2503.511	15" R.C. PIPE SEWER CL.2	LIN. FT.	1369	
2506.506	CONSTRUCT MANHOLES, DESIGN A OR F	LIN. FT.	40.8	
2506.507	CONSTRUCT CATCH BASINS, DESIGN A OR F	LIN. FT.	5.2	
2506.507	CONSTRUCT CATCH BASINS, DESIGN C	LIN. FT.	3.6	
2506.516	CASTING ASSEMBLIES	EACH	9	
2535.501	BITUMINOUS CURE	LIN. FT.	2874	
2575.501	ROADSIDE SEEDING	ACRE	16.10(P)	
2575.502	SEED MIXTURE NO. 3	POUND	644	
2575.505	SODDING	SQ. YD.	30,106	
2575.511	MULCH MATERIAL, TYPE 1	TON	32.6	
2575.519	DISC ANCHORING	ACRE	16.1(P)	
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 10-10-10	TON	3.7	

- ① FOR DUST CONTROL.
- ② INCLUDES 320 CU. YDS. FOR STREET APPROACHES, 435 CU. YDS. FOR ENTRANCES AND 189 CU. YDS. TO BE USED, AT THE DIRECTION OF THE ENGINEER, FOR RESTORATION OF 153 RD. AVE. N.W.
- ③ INCLUDES 1,325 TON FOR RT. TURN LANES, 300 TON FOR STREET APPROACHES
- ④ INCLUDES 300 TON FOR STREET APPROACHES.
- ⑤ INCLUDES 300 TON FOR STREET APPROACHES, 220 TON FOR RT. TURN LANES, 550 TON FOR ENTRANCES.
- ⑥ INCLUDES QUANTITIES FOR RESTORATION OF 153rd AVE. N.W.

SODDING		
STATION	LOC.	S.Y.
LOR 5+14 - LOR 9+00	80'-24' LT	787
LOR 14+40 - 16+80	52'-24' RT	692
25+75 - 27+80	50'-22' LT	603
43+40 - 47+80	50'-22' LT	1259
44+80 - 47+50	59'-22' RT	430
LOR 60+50 - LOR 80+70	53'-22' RT	4627
LOR 72+80 - LOR 78+65	80'-24' LT	1838
LOR 83+10 - 06+00	44'-24' LT	2015
84+75 - 90+00	60'-22' RT	951
92+00 - LOR 100+00	52'-22' RT	1319
LOR 104+60 - LOR 107+50	52'-22' RT	827
LOR 114+20 - LOR 116+85	50'-22' LT	530
LOR 114+50 - LOR 118+00	60'-22' RT	1297
LOR 139+80 - 149+30	47' - 22' LT	1922
LOR 139+00 - 145+35	50' - 22' RT	1104
148+00 - LOR 155+00	50' - 22' RT	1800
154+00 - LOR 162+67	51' - 22' LT	1759
5+80 - 7+70 (153 rd)	13' - 33' LT	422
DITCH BOTTOMS		
51 + 50 - LOR 54 + 50	LT & RT	1200
LOR 100+00 - LOR 101+70	RT	340
LOR 129+50 - LOR 135+00	RT	1220
LOR 131+00 - LOR 136+00	LT	1000
LOR 136+40 - LOR 140+00	LT	720
LOR 150+00 - LOR 161+50	RT	500
CULVERT ENDS		926
STORM SEWER INLET & OUTLET		48
TOTAL		30,106

SPECIAL DETAILS

SALVAGED BITUMINOUS MIXTURE QUANTITIES ARE COMPUTED AS THE VOLUME OF BITUMINOUS IN ITS ORIGINAL POSITION BASED ON AN AVERAGE DEPTH OF 0.3' AND AVERAGE WIDTH OF 24', EXCEPT STA'S. 56+93 TO 65+88 WHICH HAD AN AVERAGE WIDTH OF 34'.

THE CONTRACTOR SHALL REMOVE, AND STOCKPILE IF NECESSARY, SUFFICIENT TOPSOIL MATERIAL WITHIN THE EXCAVATION AREAS ON WHICH EMBANKMENTS WILL BE PLACED, FOR TOPSOIL COVERING ON THE NEW SLOPES AND DITCH BOTTOMS. THIS WILL REQUIRE APPROXIMATELY 5,914 CU. YDS. TO PROVIDE A MINIMUM COVER OF 3". THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO COMMON EXCAVATION.

THE CONTRACTOR SHALL COORDINATE WORK AT THE R.R. TRACKS WITH BURLINGTON NORTHERN.

BASIS OF PLANNED QUANTITIES

2331	PLANT MIXED SHOULDER COURSE BITUMINOUS MIXTURE 165 LBS./S.Y. PER 1 1/2" THICKNESS. BITUMINOUS MATERIAL FOR MIXTURE 6.0% BY WT.
2331	PLANT MIXED BASE COURSE BITUMINOUS MIXTURE 165 LBS./S.Y. PER 1 1/2" THICKNESS. BITUMINOUS MATERIAL FOR MIXTURE 4.3% BY WT.
2331	PLANT MIXED BINDER COURSE BITUMINOUS MIXTURE 165 LBS./S.Y. PER 1 1/2" THICKNESS. BITUMINOUS MATERIAL FOR MIXTURE 4.3% BY WT.
2341	PLANT MIXED WEARING COURSE BITUMINOUS MIXTURE 165 LBS./S.Y. PER 1 1/2" THICKNESS. BITUMINOUS MATERIAL FOR MIXTURE 6.0% BY WT.
2357	BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL. PER S.Y.
2575	ROADSIDE SEEDING BASED ON HORIZONTAL MEASUREMENTS PLUS 10%

SALVAGE & INSTALL FENCE

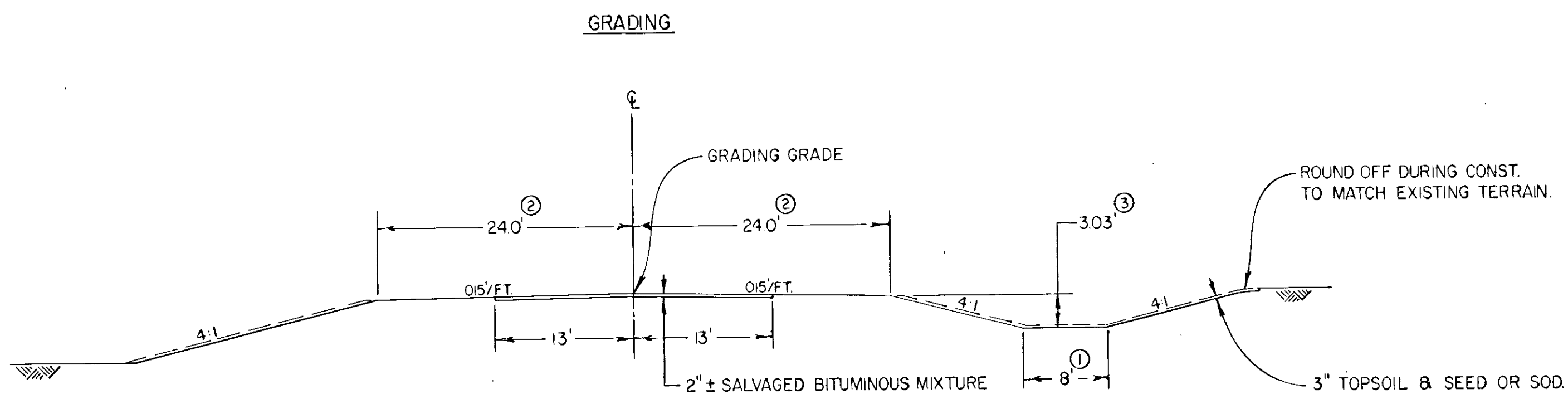
STATION	LOC.	SALVAGE	INSTALL	REMARKS
LOR 10+09	38' RT	22	0	LINE FE.
LOR 10+36	40' LT	20	0	LINE FE.
LOR 10+36 to 25+78	31' LT	1577	1572	
LOR 11+16 to 15+12	43' RT	426	426	
26+30 to 33+82	34' RT	752	752	
33+82	34' RT	26	0	LINE FE.
33+82 to 38+17	34' RT	435	435	
38+17	32' RT	28	0	LINE FE.
38+17 to 38+35	32' RT	18	18	
38+35	32' RT	28	28	LINE FE.
38+35 to 41+80	33' RT	345	345	
27+27 to 30+56	29' LT	329	329	
30+56	31' LT	29	0	LINE FE.
30+56 to 35+45	30' LT	489	489	
35+45	29' LT	31	0	LINE FE.
35+45 to 35+61	29' LT	16	16	
35+61	46' LT	16	16	
35+61 to 38+50	42' LT	289	289	
38+50	31' LT	29	0	LINE FE.
38+50 to 43+39	29' LT	489	489	
43+39	37' RT	14	0	LINE FE.
43+39 to 45+00	36' RT	161	161	
45+00	33' RT	17	0	LINE FE.
45+49	40' LT	20	0	LINE FE.
LOR 71+62 to 72+18	42' RT	56	56	
LOR 83+13	34' LT	16	0	LINE FE.
85+77	35' LT	15	0	LINE FE.
86+46	36' LT	14	0	LINE FE.
86+46 to 88+30	37' LT	184	184	
88+30	37' LT	13	0	LINE FE.
88+30 to 88+82	37' LT	52	52	
90+03 to 91+20	38' LT	54	54	
91+20	38' LT	12	0	LINE FE.
93+08	33' LT	17	0	LINE FE.
93+08 to 95+29	33' LT	131	131	
95+00 to LOR 96+32	38 - 44' RT	132	132	
LOR 96+51	38' LT	22	0	LINE FE.
LOR 96+51 to LOR 102+38	38 - 60' RT	587	587	
LOR 110+56 to 113+71	37' RT	315	315	
113+71	31' RT	29	0	LINE FE.
114+50 to 122+10	34' RT	760	760	
140+59	31' LT	10	0	LINE FE.
141+03	43' RT	7	0	LINE FE.
144+27	40' RT	10	0	LINE FE.
144+27 to 144+67	40' RT	40	40	
145+37	35' LT	15	0	LINE FE.
145+37 to 149+27	34' LT	385	385	
149+22	34' LT	16	0	LINE FE.
145+99 to 148+85	35' RT	296	296	
150+85	33' LT	17	0	LINE FE. POST & CABLE
151+12 to 152+00	33' LT	88	88	
152+00	33' LT	17	17	LINE FE.
LOR 158+52 to LOR 161+21	42' LT - 47' LT	269	269	
TOTALS		9175	8721	

STANDARD PLATES

PLATE NO.	DESCRIPTION
0003A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000I	REINFORCED CONCRETE PIPE
3000C	GASKET JOINT FOR R.C. PIPE
3010F	CORRUGATED METAL PIPE CULVERT
3100F	CONCRETE APPOIN FOR REINFORCED CONCRETE PIPE
3120H	METAL APPOIN FOR C.M. PIPE
4000H	MANHOLE OR CATCH BASIN
4002D	MANHOLE OR CATCH BASIN
4005K	MANHOLE OR CATCH BASIN
4010E	CONCRETE ADJUSTING RING
4011D	PRECAST CONCRETE BASE
4101B	RING CASTING FOR MANHOLE OR CATCH BASIN
4110D	COVER CASTING FOR MANHOLE
4120E	CATCH BASIN FRAME CASTING
4140D	SPECIAL GRATE CASTINGS FOR CATCH BASIN
4140C	GRATE CASTING FOR CATCH BASIN
4161E	CURB BOX CASTING FOR CATCH BASIN
4180G	MANHOLE OR CATCH BASIN SUMP
8000F	STANDARD BARRICADES
9102C	SODDING AT PIPE CULVERT ENDS

ALL DIMENSIONS NOMINAL

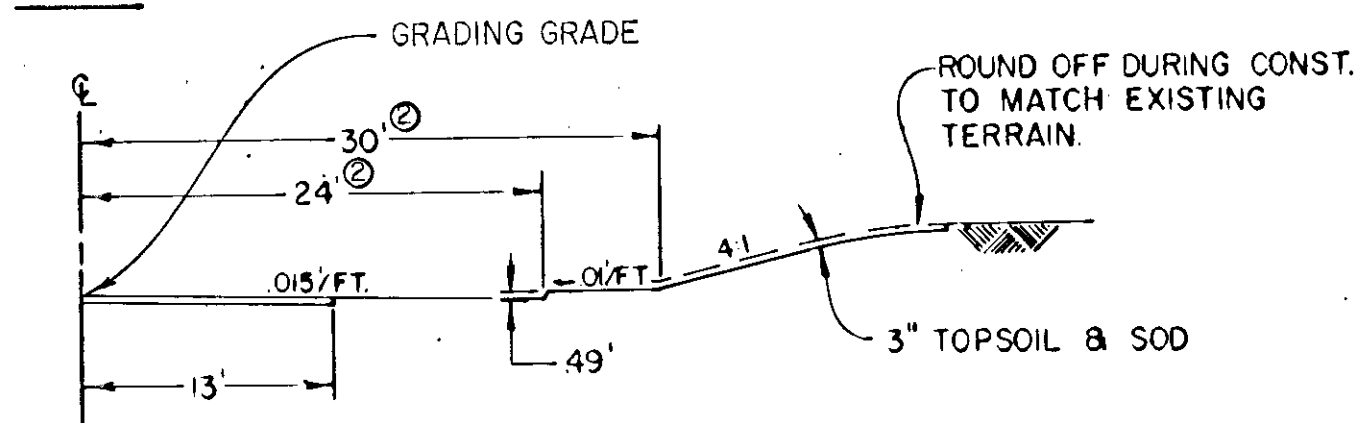
TYPICAL SECTIONS



- ① SEE X-SECTIONS FOR MODIFIED DITCH BOTTOMS
- ② 2' WIDER IN RIGHT TURN LANE AREAS.
- ③ SEE X-SECTIONS FOR SPECIAL DITCHES.

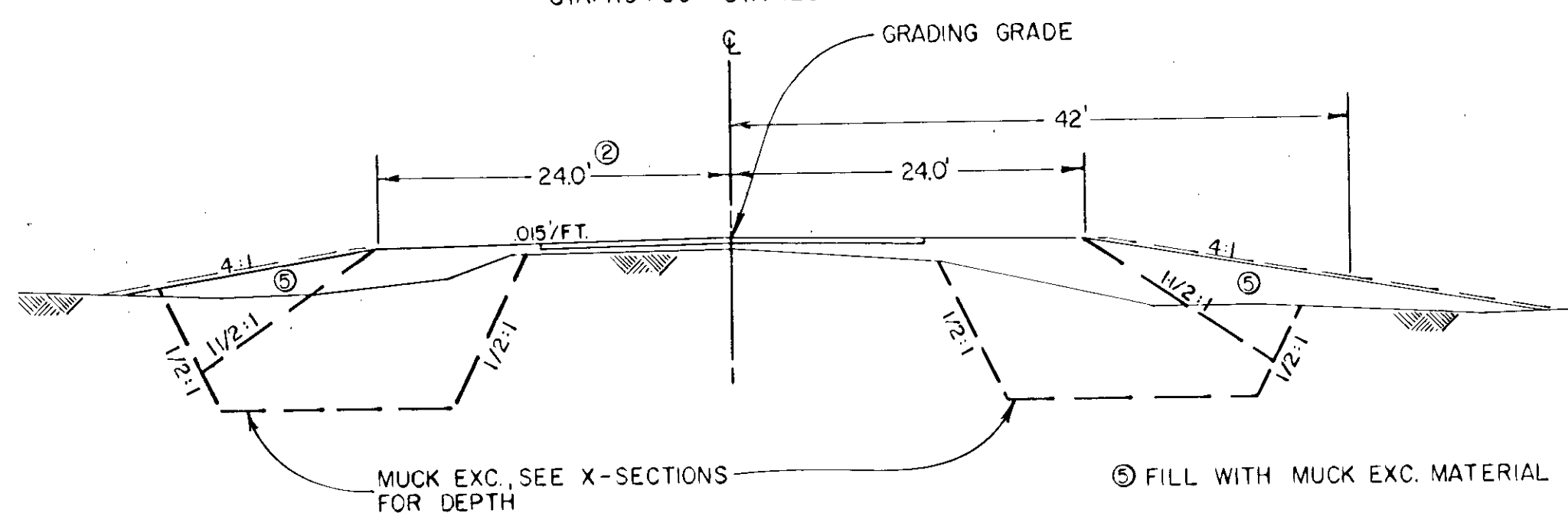
BERM

LOCATION STA.	STA.
43+35	45+75 LT.
44+00	46+00 RT.
LOR 83+50	LOR 85+50 LT.
LOR 85+50	LOR 88+05 LT. & RT.
LOR 88+05	LOR 04+10 LT.
LOR 04+10	LOR 06+50 LT. & RT.
LOR 06+50	LOR 06+75 RT.
LOR 137+50	LOR 139+00 LT.
LOR 155+58	LOR 158+44 LT.



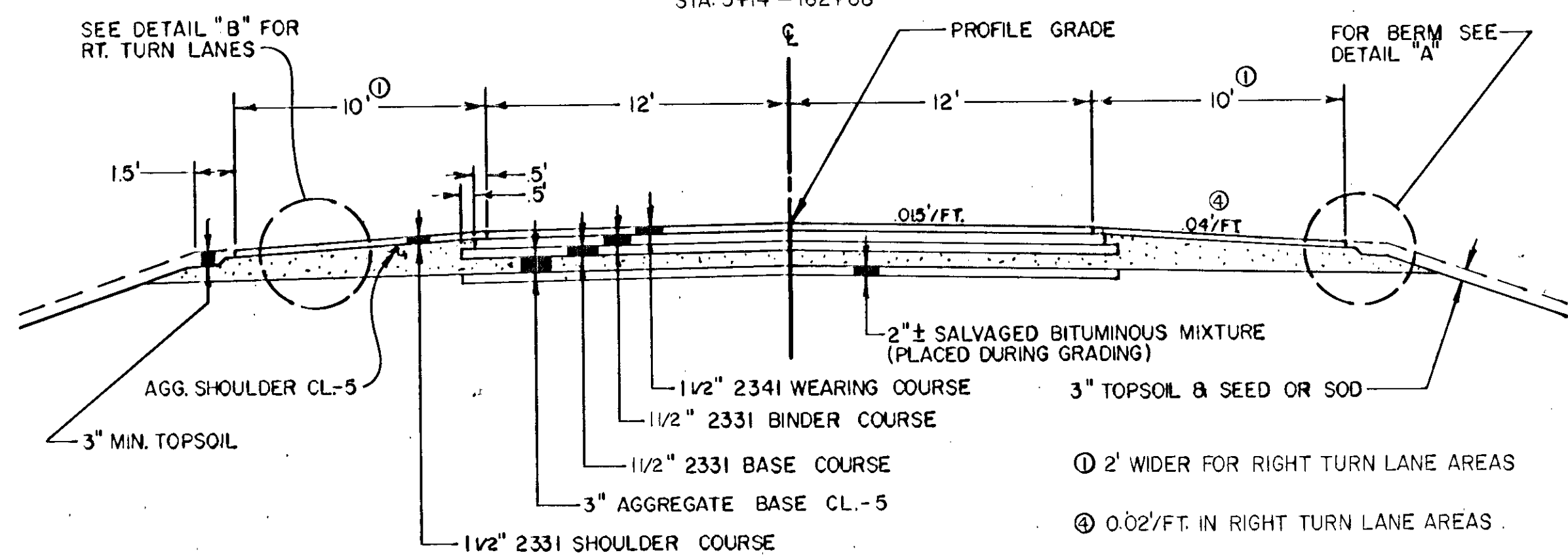
MUCK EXCAVATION

STA. 102+00 - STA. 104+50 LT.
STA. 119+00 - STA. 120+50 RT.



TYPICAL BASE & SURFACING SECTION

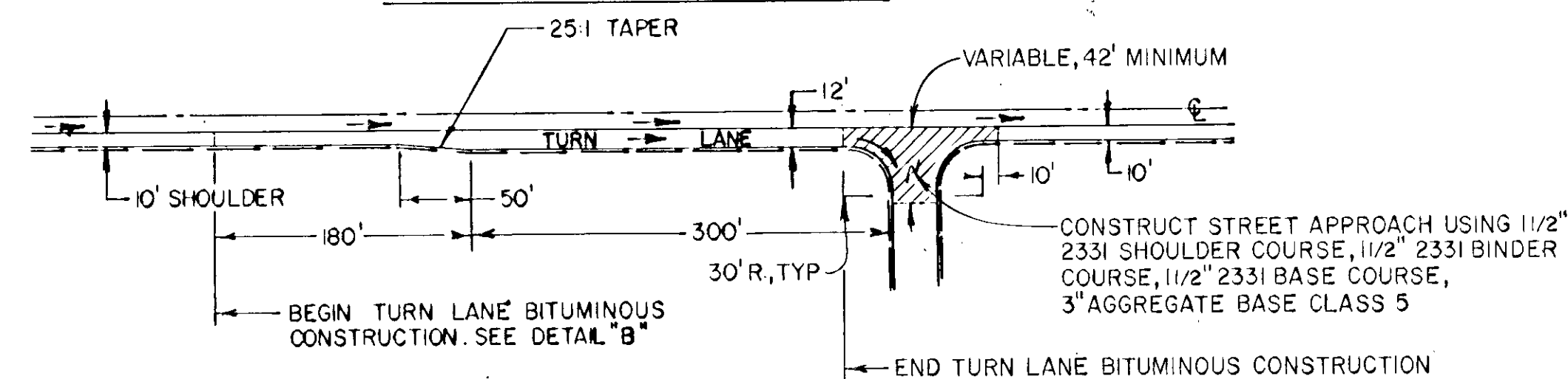
STA. 5+14 - 162+68



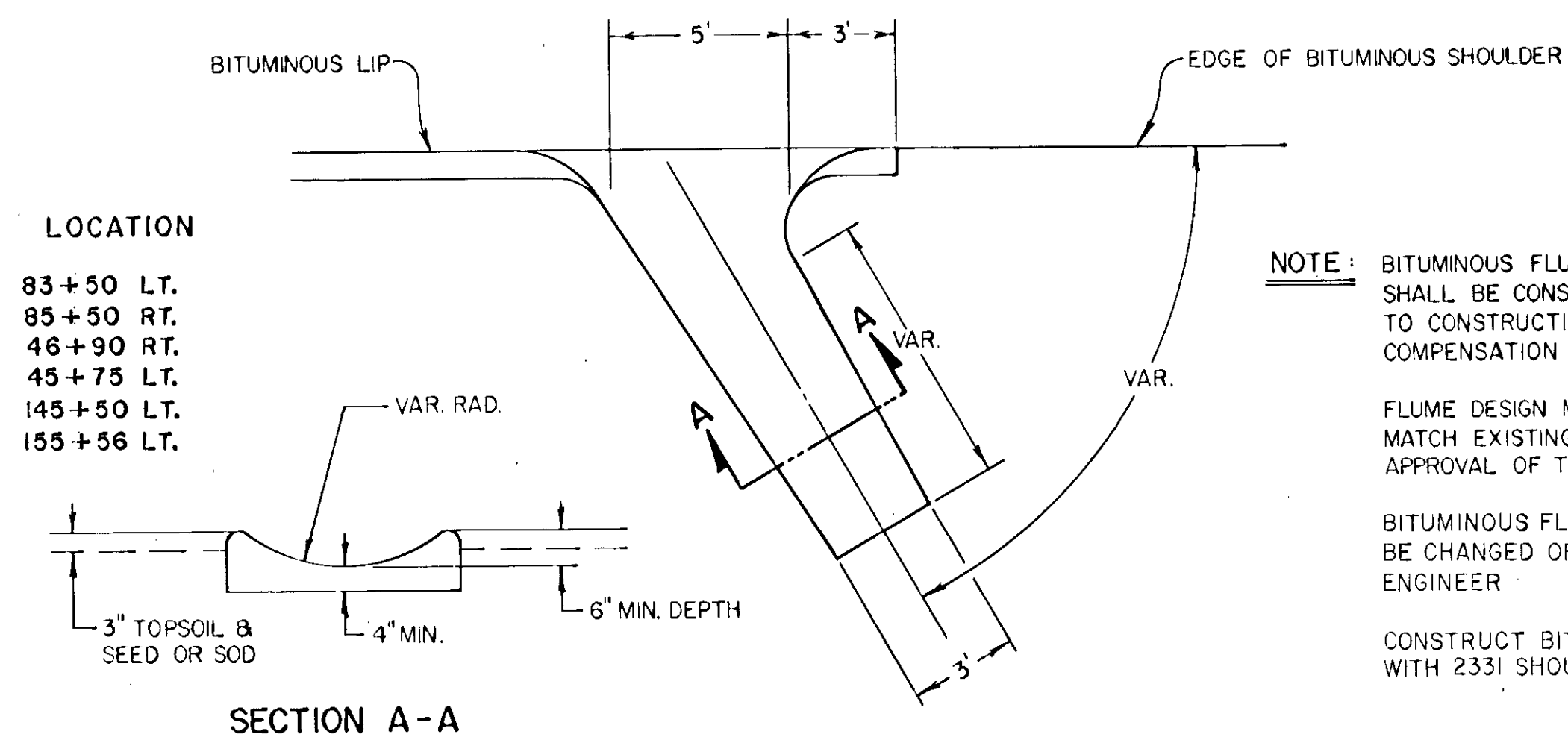
- ① 2' WIDER FOR RIGHT TURN LANE AREAS
- ② 0.02/FT. IN RIGHT TURN LANE AREAS

TYPICAL RIGHT TURN LANE

RT. TURN LOCATION STA.	STA.	RT. TURN LOCATION STA.
LOR 5+05	LOR 9+85 LT.	LOR 9+85 LT.
LOR 12+05	17+55 RT.	17+55 RT.
37+88	43+44 RT.	43+44 RT.
LOR 51+78	LOR 57+20 RT.	LOR 57+20 RT.
LOR 56+18	LOR 61+60 LT.	LOR 61+60 LT.
LOR 65+00	101+07 LT.	101+07 LT.
LOR 65+01	LOR 83+30 RT.	LOR 83+30 RT.
97+27	102+71 RT.	102+71 RT.
109+38	114+82 RT.	114+82 RT.
LOR 126+48	133+62 LT.	133+62 LT.
LOR 126+68	LOR 136+55 RT.	LOR 136+55 RT.
LOR 155+16	LOR 160+80 LT.	LOR 160+80 LT.
LOR 157+85	LOR 162+65 RT.	LOR 162+65 RT.



TYPICAL BITUMINOUS FLUME



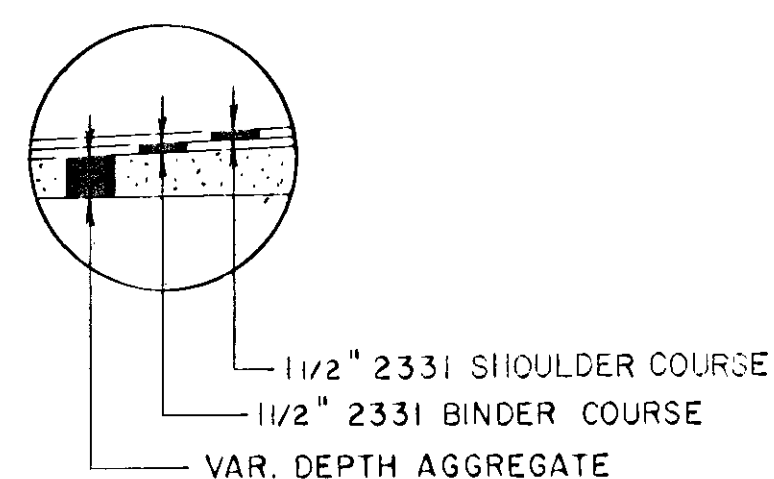
NOTE: BITUMINOUS FLUME CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL COMPENSATION WILL BE MADE.

FLUME DESIGN MAY BE MODIFIED TO MATCH EXISTING CONDITIONS UPON APPROVAL OF THE ENGINEER.

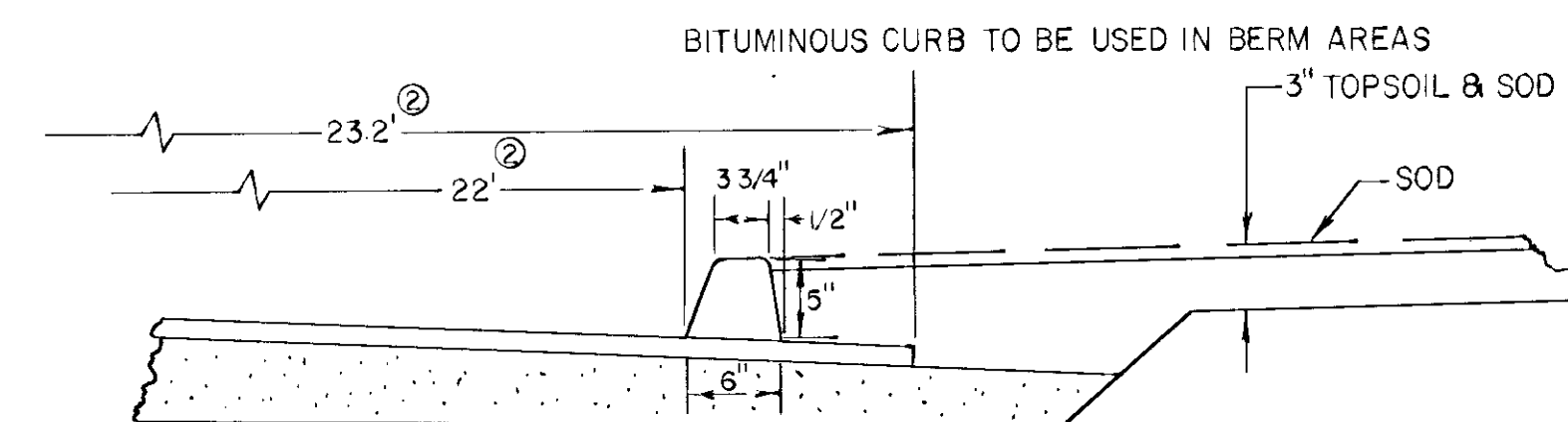
BITUMINOUS FLUME LOCATIONS MAY BE CHANGED OR DELETED BY THE ENGINEER

CONSTRUCT BITUMINOUS FLUMES WITH 2331 SHOULDER COURSE

DETAIL "B"



DETAIL "A"



NOTE: CONTRACTOR MAY MODIFY BITUMINOUS CURB DESIGN UPON APPROVAL OF THE ENGINEER (PRIOR TO USE)

DRAINAGE

STATION	LOCATION	IN PLACE	REMARKS	REMOVE		PORTABLE CULVERTS												
				PORT. CULV.	CONC. STRUCT.	EXC.	SOD-DING	RIP-RAP	15" CMP	18" CMP	15" RCP CL.4	18" RCP CL.4	24" RCP CL.4	36" RCP CL.2				
				LIN. FT.	CU. YD.	CU. YD.	SQ. YD.	CU. YD.	LIN. FT.	AP.	LIN. FT.	AP.	LIN. FT.	AP.	LIN. FT.	AP.	LIN. FT.	AP.
5+20	X-ING			62			17						90	2				
5+73	LT.		OMIT															
6+00	RT.			36			17			44	2							
7+25	LT.		NO CULV. REQ.															
8+91	RT.		NO CULV. REQ.															
8+91	LT.		NO CULV. REQ.															
9+89	RT.		NO CULV. REQ.															
9+89	LT.		NO CULV. REQ.															
10+89	RT.						17			44	2							
17+00	RT.						23					50	2					
17+77	RT.						17			44	2							
20+82	LT.						17			40	2							
20+91	RT.		OMIT															
26+00	LT.		NO CULV. REQ.															
37+97	RT.		NO CULV. REQ.															
38+14	LT.		NO CULV. REQ.															
38+43	RT.		NO CULV. REQ.															
42+80	RT.		NO CULV. REQ.															
45+15	RT.		NO CULV. REQ.															
45+42	LT.		NO CULV. REQ.															
46+20	RT.		NO CULV. REQ.															
46+72	LT.						17			38	2							
46+80	RT.		NO CULV. REQ.															
47+71	RT.						17			40	2							
53+40	LT.						17			40	2							
56+68	LT.						23					46	2					
56+68	RT.						23					46	2					
60+24	RT.						17			44	2							
60+69	RT.						17			36	2							
63+00	RT.						17			34	2							
64+75	RT.						17			30	2							
66+11	LT.		NO CULV. REQ.															
66+37	RT.						17			30	2							
67+33	RT.		NO CULV. REQ.															
68+80	RT.		NO CULV. REQ.															
69+37	LT.		NO CULV. REQ.															
69+94	RT.		NO CULV. REQ.															
71+44	RT.		NO CULV. REQ.															
72+30	RT.		NO CULV. REQ.															
72+66	LT.		NO CULV. REQ.															
73+42	RT.		NO CULV. REQ.															
74+60	RT.		NO CULV. REQ.															
75+24	LT.						17			36	2							
76+53	LT.						17			46	2							
76+53	RT.						17			46	2							
79+33	RT.						17			32	2							
80+93	RT.						17			32	2							
80+94	LT.		SEE NOTE 1															
82+78	RT.		SEE NOTE 1															
83+86	LT.		NO CULV. REQ.															
86+07	LT.		SEE NOTE 1															
86+20	RT.		NO CULV. REQ.															
88+60	RT.		NO CULV. REQ.															
88+76	LT.		NO CULV. REQ.															
89+79	LT.		NO CULV. REQ.															
91+58	LT.		NO CULV. REQ.															
92+83	RT.		NO CULV. REQ.															
94+52	RT.		NO CULV. REQ.															
94+88	RT.		NO CULV. REQ.															
96+16	LT.		NO CULV. REQ.															
96+59	RT.		NO CULV. REQ.															
97+79	RT.						17			30	2							
99+58	RT.						17			34	2							
101+65	X-ING						29						62	2				
102+22	RT.		NO CULV. REQ.															
104+00	RT.						17			32	2							
107+48	RT.						17			32	2							
110+12	RT.						17			34	2							
114+30	RT.						23					46	2					
115+44	LT.		NO CULV. REQ.															
116+88	RT.		NO CULV. REQ.															
119+50	X-ING			106			50										86	2
125+13	LT.						17			30	2							

DRAINAGE (CONT.)

STATION	LOCATION	IN PLACE	REMARKS	REMOVE		PORTABLE CULVERTS															
				PORT. CULV.	CONC. STRUCT.	EXC.	SOD-DING	RIP-RAP	15" CMP	18" CMP	15" RCP CL.4	18" RCP CL.4	24" RCP CL.4	36" RCP CL.2							
				LIN. FT.	CU. YD.	CU. YD.	SQ. YD.	CU. YD.	LIN. FT.	AP.	LIN. FT.	AP.	LIN. FT.	AP.	LIN. FT.	AP.	LIN. FT.	AP.	LIN. FT.	AP.	
127+00	LT.		NO CULV. REQ.																		
128+70	LT.			54			23					52	2								
129+59	X-ING			52			29										68	2			
131+60	RT.						23					48	2								
136+00	RT.		NO CULV. REQ.																		
140+22	RT.		NO CULV. REQ.																		
141+78	LT.						17			34	2										
142+00	RT.						17			32	2										
143+00	RT.						17			38	2										
143+43	RT.						17			34	2										
142+60 TO 145+40	X-ING						17			280	2										
145+00	RT.						17			42	2										
146+68	LT.						17			32	2										
149+12	RT.		NO CULV. REQ.																		
149+31	LT.		OMIT																		
150+40	RT.						17			28	2										
150+87	RT.						17			30	2										
151+00	LT.						17			32	2										
153+52	RT.						17			28	2										
154+00	RT.						17			30	2										
155+00	LT.						17			38	2										
155+38	RT.						17			36	2										
155+88	LT.		SEE NOTE 1																		
158+12	LT.		NO CULV. REQ.																		
160+17	LT.						17			30	2										
161+36	LT.						17			32	2										
159+00	X-ING															58	2				
TOTALS				310			926			1624	78	288	12	58	2	90	2	130	4	86	2

141+26 TO 146+90

542 3
1886 79

NOTE #1: SEE STORM SEWER CHART

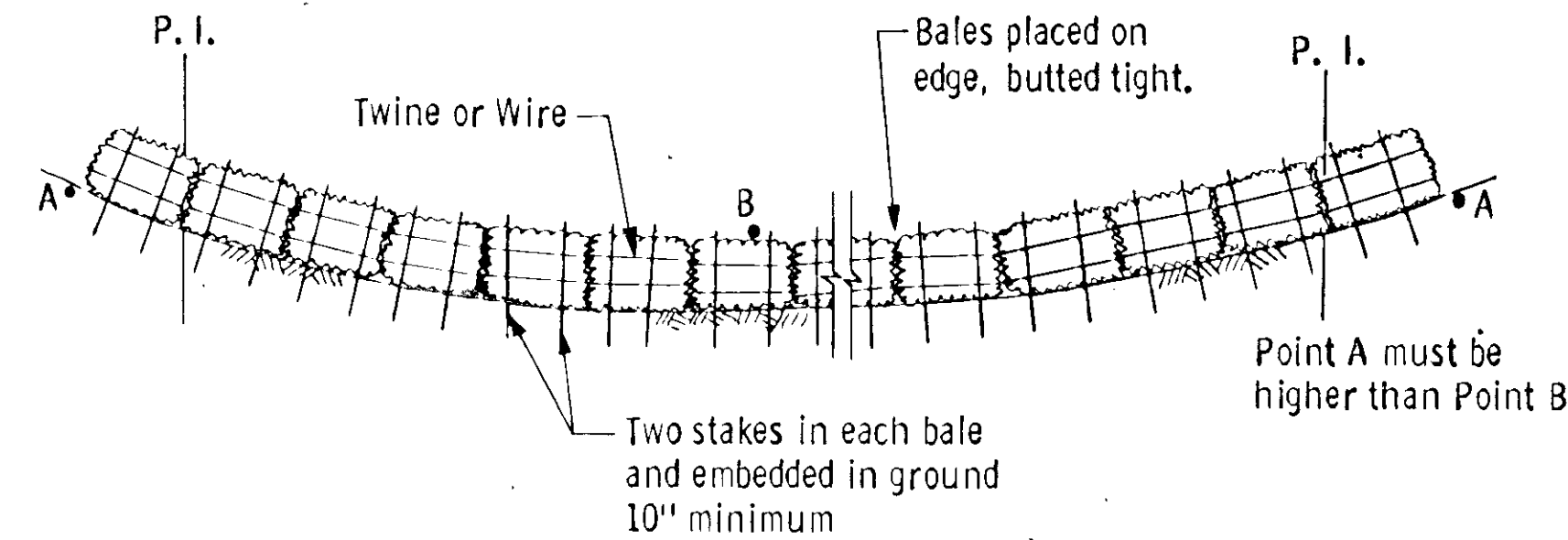
CLEARING AND GRUBBING					
STATION (TO STATION)	LOC.	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
LOR 5+87	40' LT	--			
LOR 6+26	25' RT	2			
LOR 6+73	25' RT	2			
LOR 6+77	39' LT	--			
LOR 11+79	37' LT	1			
LOR 12+72	36' LT	4			
LOR 13+09	32' LT	1			
LOR 13+14	36' LT	4			
27+35	37' LT	1			
27+48	37' LT	2			
27+71 to 30+56	34' to 50' LT		.25		.25
29+71 to 32+43	38' to 60' RT		.30		.30
33+00	32' LT	1			
33+50	32' RT	--			
36+28	31' LT	1			
41+68	22' LT	2			
42+89	17' LT	4			
43+65	39' LT	1			
43+98	39' LT	1			
44+25	33' LT	1			
44+62	35' LT	1			
44+71	39' LT	1			
44+82	38' LT	1			
45+79	37' LT	1			
46+15	37' LT	1			
46+47	37' LT	--			
46+62	37' LT	1			
46+72	34' RT	2			
46+91	34' RT	2			
47+21	35' LT	4			
47+35	35' LT	1			
47+45	43' RT	1			
49+26	42' RT	1			
47+72 to 52+85	30' to 65' LT		.55		.55
LOR 55+19	48' LT	1			
LOR 55+25	51' LT	2			
LOR 55+34	57' LT	1			
LOR 55+49	51' LT	1			
LOR 55+67	57' LT	1			
49+84 to LOR 55+50	32' to 76' RT		.50		.50
LOR 56+05	49' LT	1			
LOR 62+93	25' LT	1			
LOR 63+32	36' RT	1			
LOR 57+20 to LOR 65+64	40' LT		.40		.40
87+72	36' RT	1			
88+07	35' LT	1			
89+67	34' RT	1			
90+41	37' LT	1			
92+22	31' RT	1			
93+10	31' LT	1			
LOR 102+00 to LOR 110+00	2' to 50' LT		.75		.75
LOR 109+30 to LOR 113+62	34' to 50' RT		.30		.30
LOR 111+78 to LOR 114+23	40' to 50' LT		.20		.20
115+50	28' RT	1			
116+13	25' RT	1			
116+62	49' RT	1			
116+72	49' RT	1			
116+78	40' RT	1			
117+29 to 117+82	32' to 40' RT		.05		.05
118+13	56' RT	1			
120+40	43' LT	1			
120+47	43' LT	1			
120+53	43' LT	4			
121+35	36' LT	1			
LOR 124+09	39' RT	1			
LOR 124+55	44' RT	1			
LOR 124+98	44' RT	1			
LOR 125+26	46' RT	1			
LOR 125+51	42' RT	1			
LOR 125+79	43' RT	1			
LOR 126+00	39' RT	1			
LOR 127+06	31' RT	1			
LOR 127+68	22' RT	2			
LOR 130+46 to LOR 130+81	33' LT-50' RT		.15		.15
LOR 136+40 to LOR 137+61	17'-43' RT		.15		.15
LOR 137+40 to LOR 139+05	30'-49' LT		.10		.10
LOR 139+47	34' RT	1			

CLEARING AND GRUBBING					
STATION (TO STATION)	LOC.	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
143+42	38' LT	1			
143+52	37' LT	1			
143+62	37' LT	1			
143+74	37' LT	1			
143+86	37' LT	1			
143+97	37' LT	1			
144+10	36' LT	1			
144+20	36' LT	1			
144+35	36' LT	1			
144+54	36' LT	1			
144+83	34' LT	1			
144+96	35' LT	1			
145+05	35' LT	1			
145+16	35' LT	1			
145+20	35' LT	1			
148+50	38' LT	1			
148+73	40' LT	1			
148+84	40' LT	1			
148+94	40' LT	1			
152+03	47' RT	1			
152+08	49' RT	1			
152+60 to 153+34	44' to 50' LT		.05		.05
LOR 159+80	46' LT	1			
TOTALS:		103	3.75	87	3.75

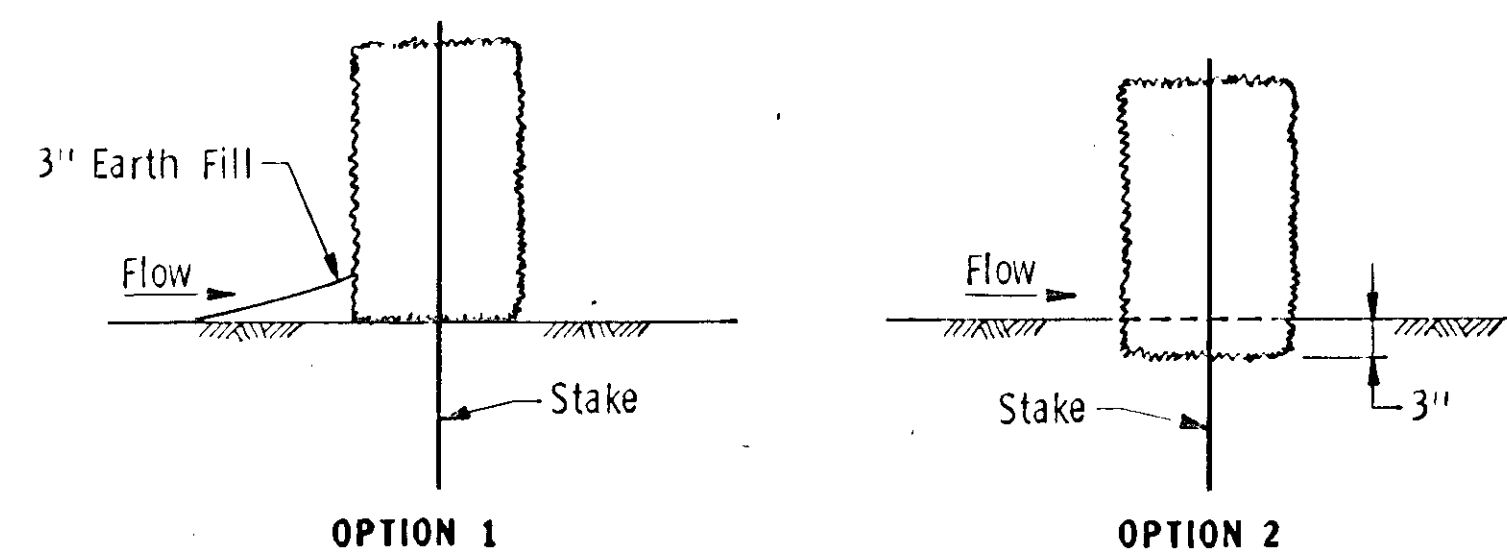
STORM SEWER SYSTEM

NO.	STATION	LOCATION	REMARKS	TYPE	DESIGN	LIN. FT.	REMOVE SEWER PIPE	TOP	OUTLET	CASTING ASSEMBLY	DRAINS TO	R.C.P. SIZES			
												12"	15"	15"	
1	LOR81+50	LT. 13	FRI 15" R.C.P. APRON ON DITCH INLET FRI 12" R.C.P. APRON LOW YARD	M.H.	AorP	5.5		881.89	876.53	A	M.H. #2	139'		1	1
2	LOR82+89	LT. 16		M.H.	AorP	5.4		880.83	875.50	A	M.H. #3	56'			
3	0+10	153rd		M.H.	AorP	5.3		880.30	875.11	A	M.H. #4	380'			
4	4+20	153rd		M.H.	AorP	7.8		880.15	872.45	A	M.H. #5	380'			
5	8+00	153rd	FRI 15" R.C.P. APRON ON OUTLET	M.H.	AorP	5.7		875.40	809.79	A	DITCH	104'			1
6	LOR85+00	LT. 17	FRI 12" R.C.P. APRON LOW YARD	M.H.	AorP	5.3		881.46	876.30	A	M.H. #2	200'		1	
7	LOR86+40	LT. 17		M.H.	AorP	5.8		883.19	877.53	A	M.H. #6	140'			
8	LOR86+51	LT. 23.6		C.B.	AorP	5.2		883.00	877.65	B	M.H. #7	14'			
9	LOR106+05	LT. 34	FRI 15" R.C.P. APRON ON INLET FRI 15" R.C.P. APRON ON OUTLET	C.B.	C	3.6		878.23	874.44	B	DITCH	66'			2
TOTALS												154'	1,325'	2	4

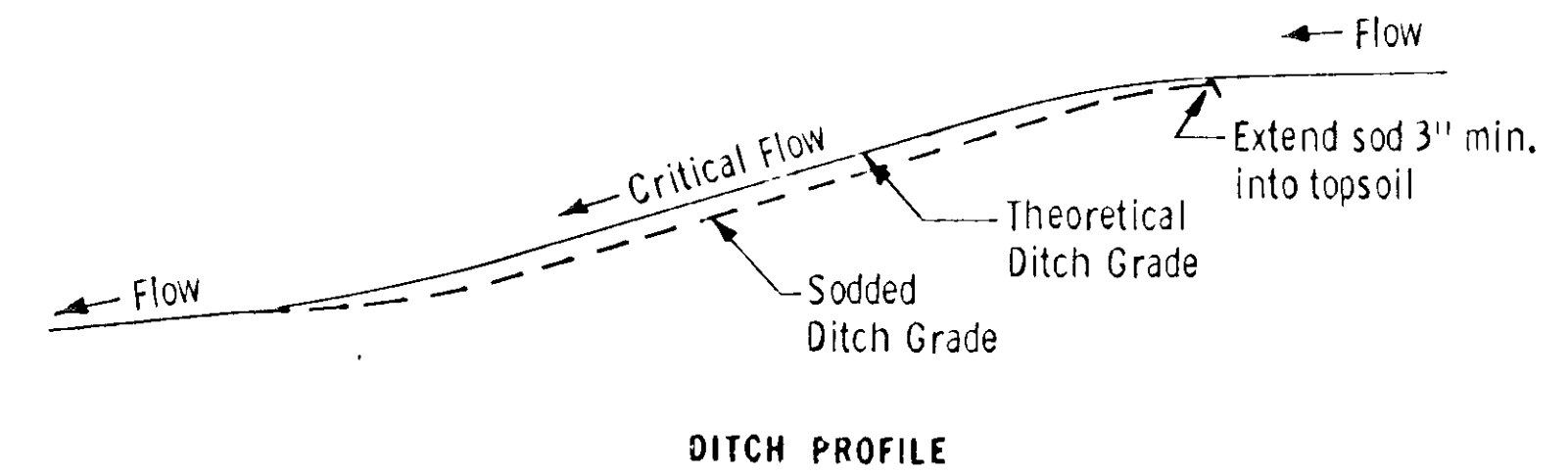
CASTING ASSEMBLIES			
ASSEMBLY	ITEM	CASTING NO.	QUANTITIES
A	FRAME COVER	700-7	7
		711	
B	FRAME	801	2
	GRATE	810	
	CURB BOX	821 B	



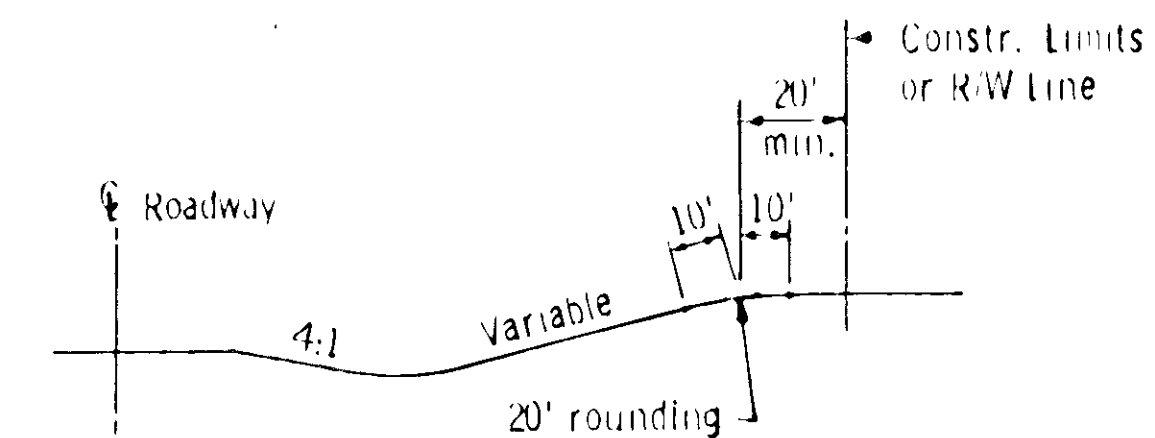
BALE HAY OR STRAW DITCH CHECK



DITCH CHECK SECTIONS

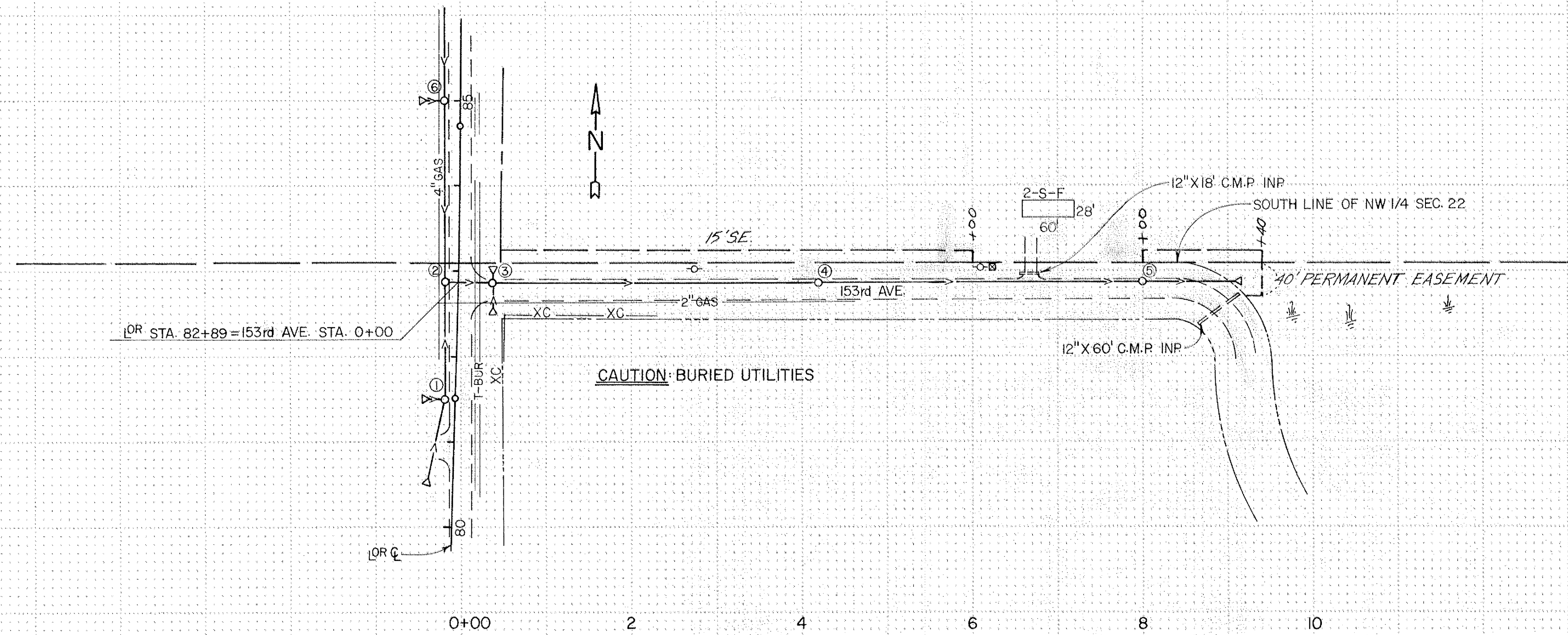


SODDED DITCH DETAILS

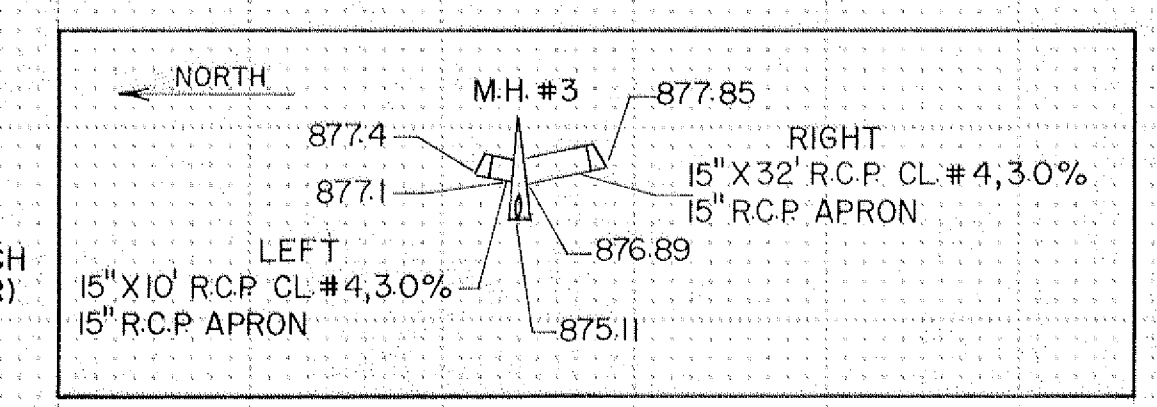
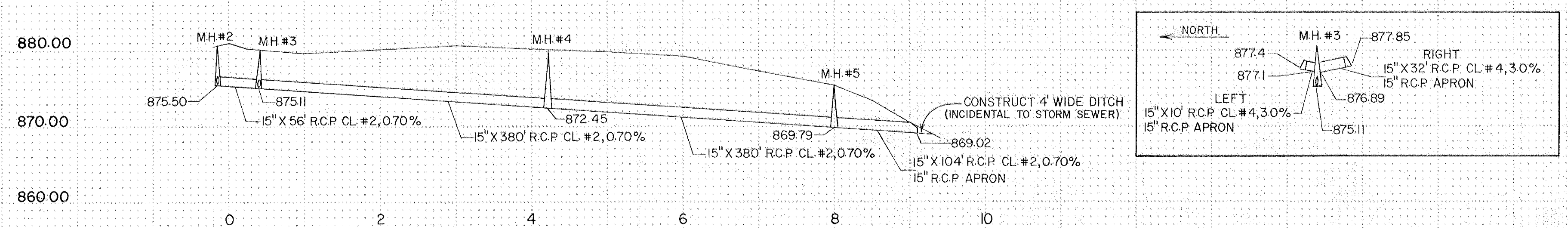


ROUNDING BACK SLOPES

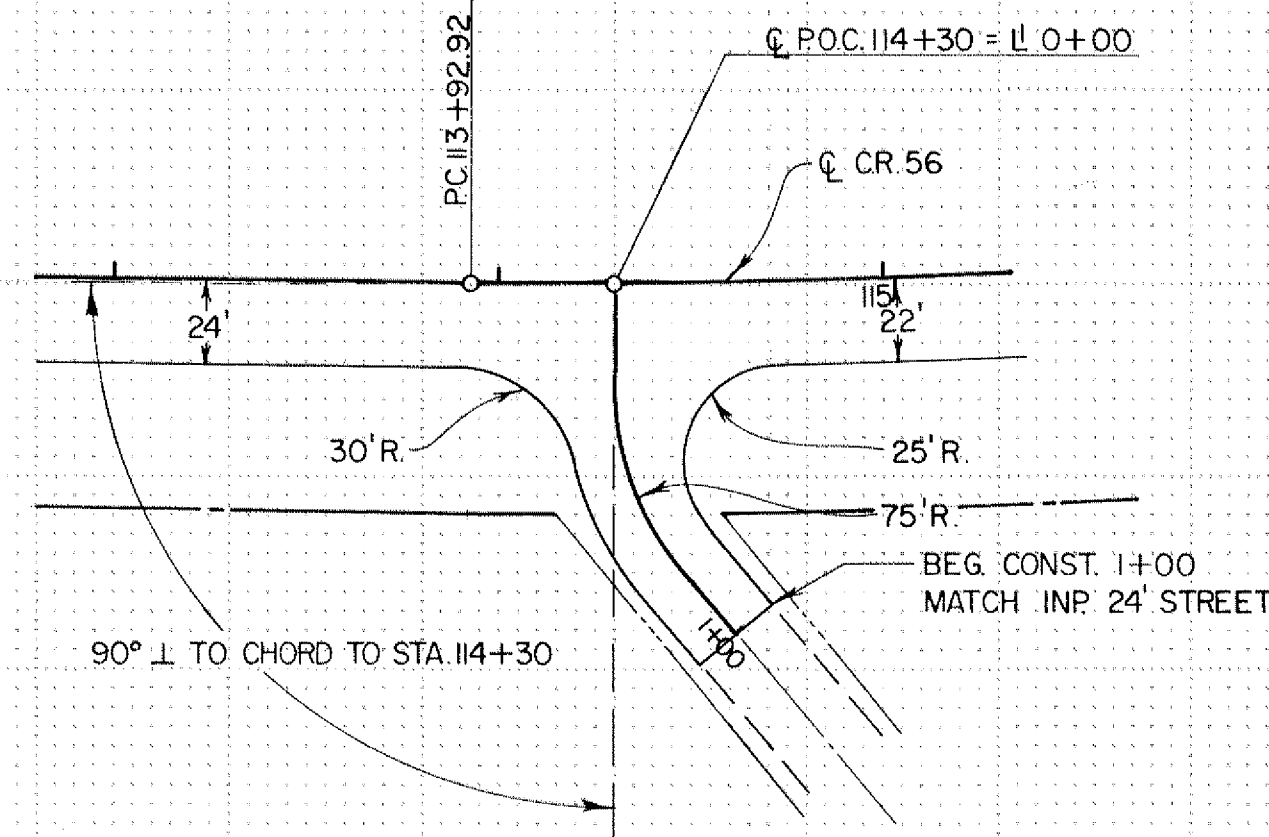
153rd Ave. STORM SEWER CONSTRUCTION (LOR STA. 82+89)



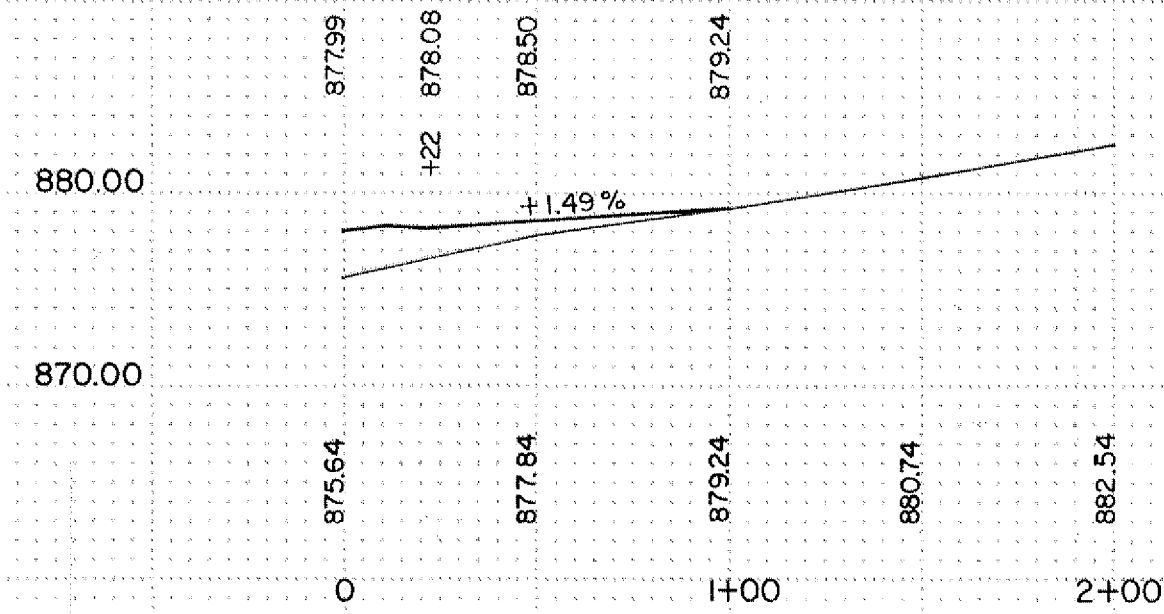
PROFILE RIGHT LOR STA. 82+89 (11' North of C. of 153rd Ave.)



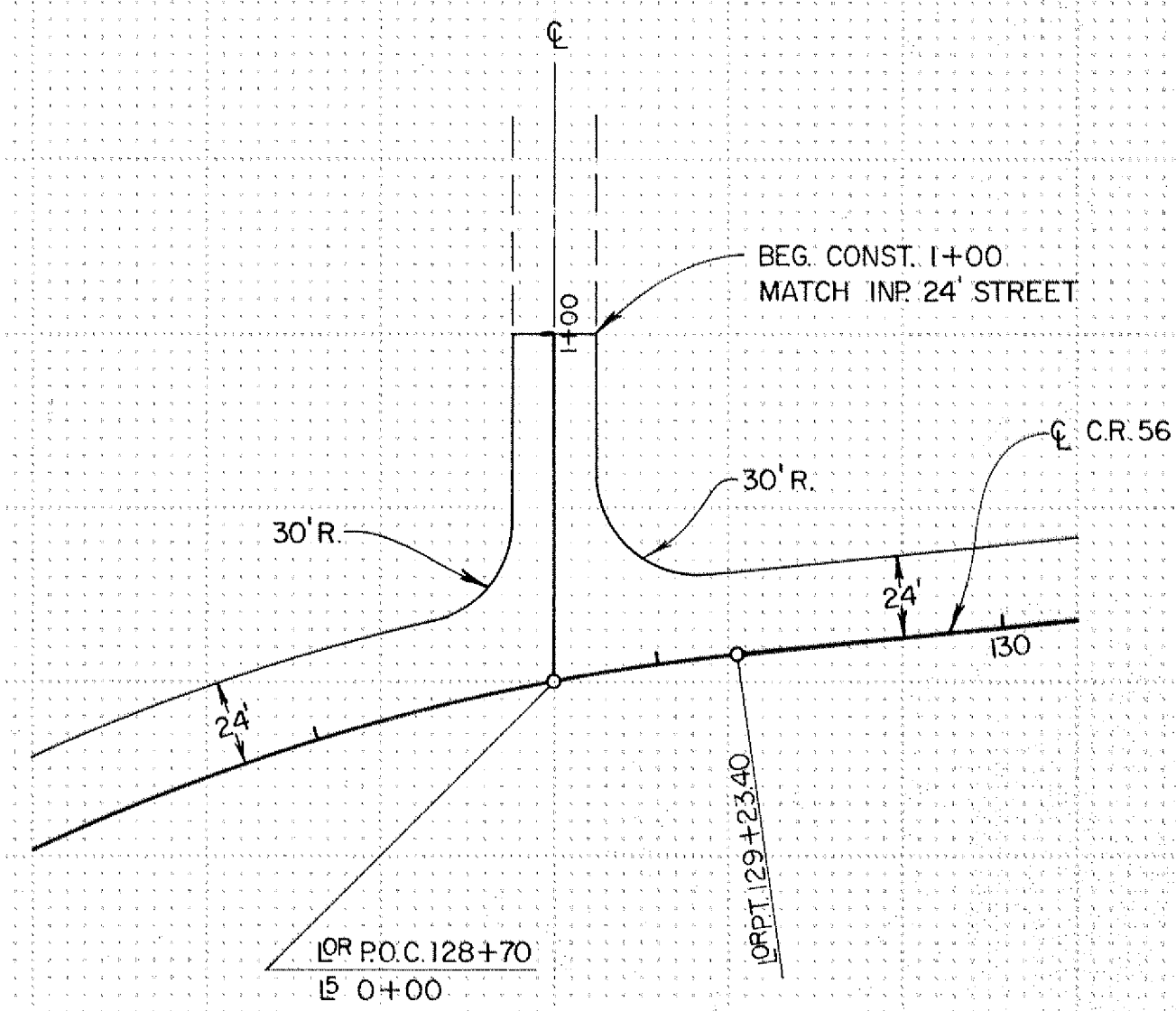
JCT. 157th LANE NW
L ALIGN.



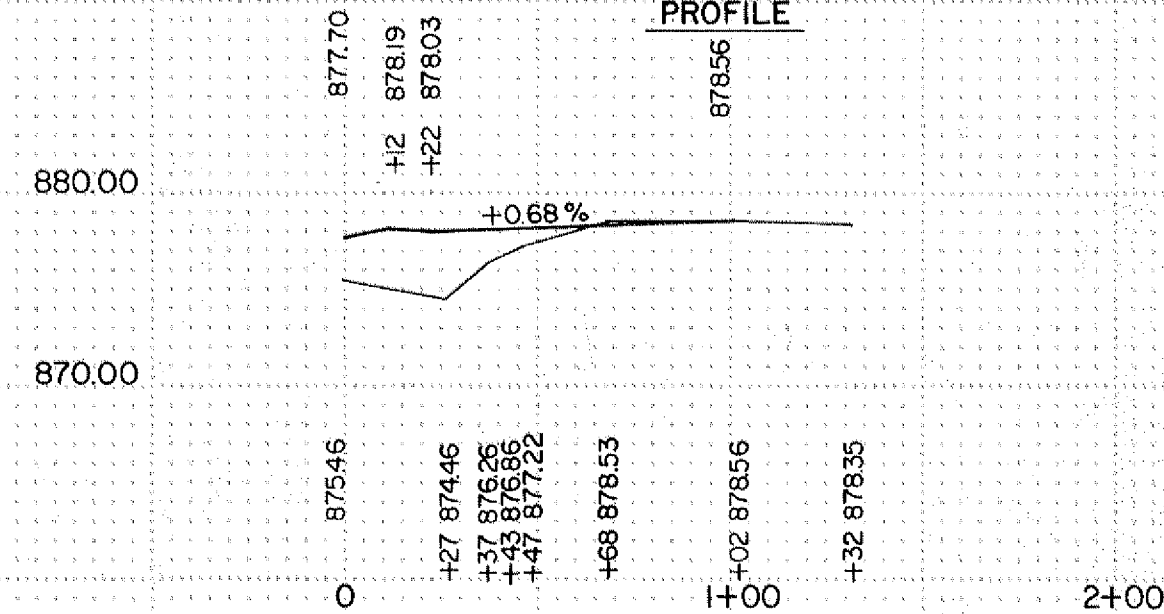
PROFILE



JCT. JASPER ST. N.W.
L ALIGN.

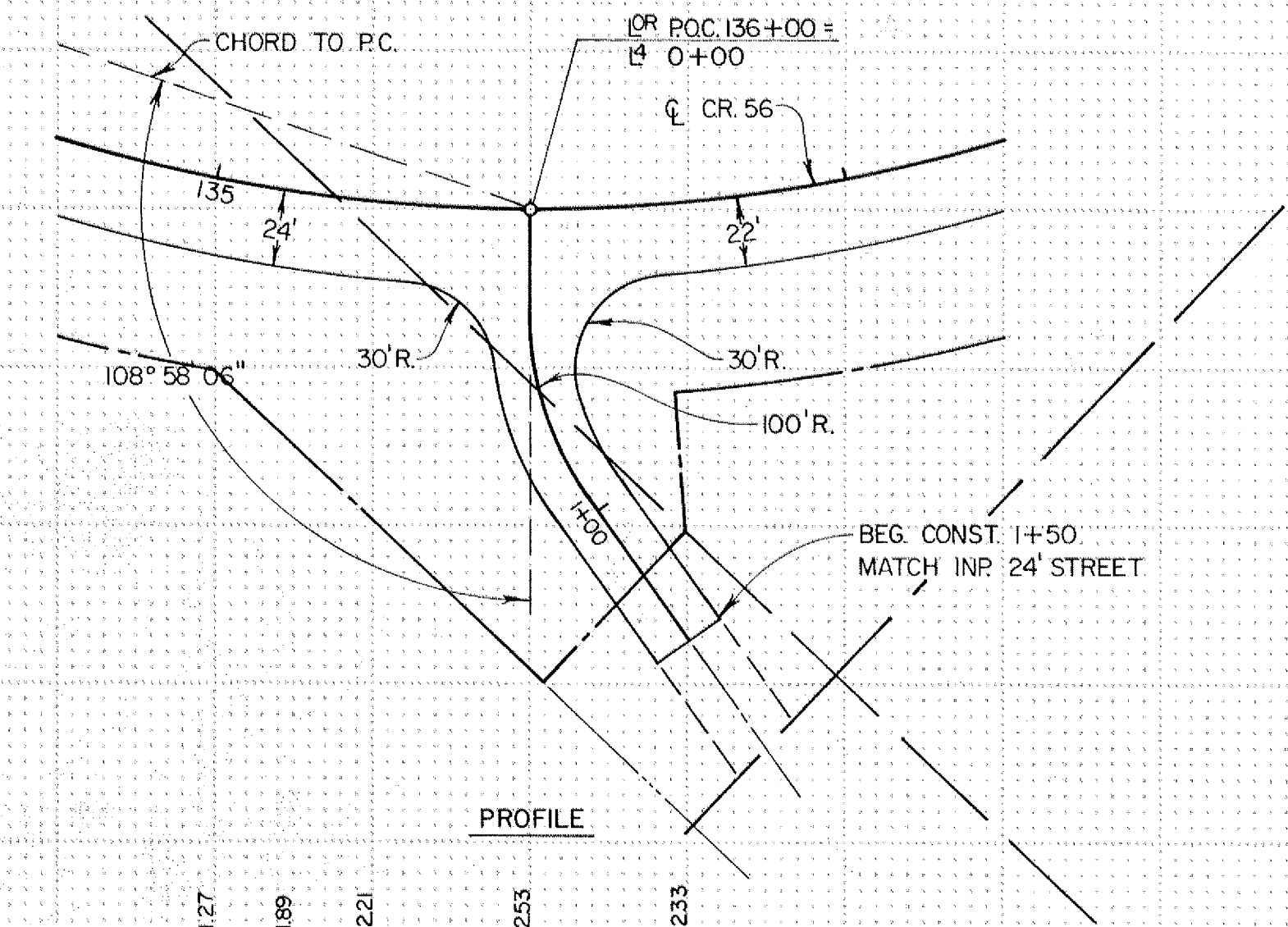


PROFILE

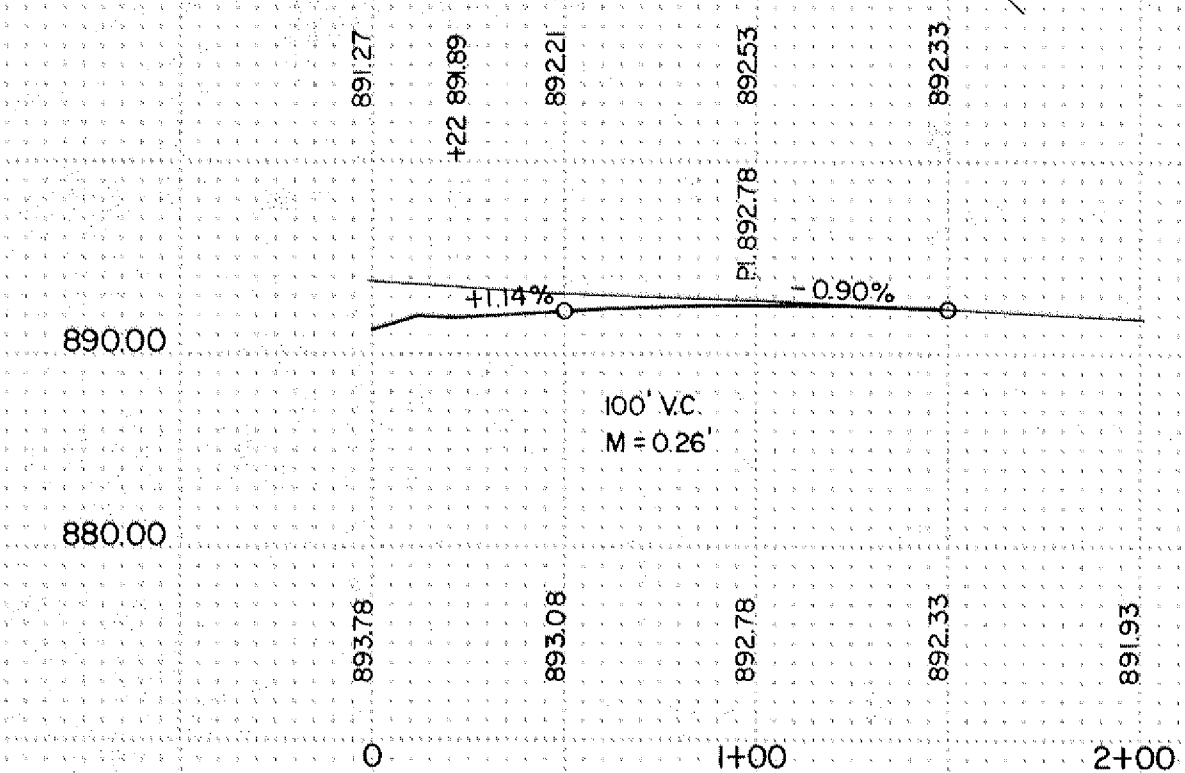


JCT. 159th AVE. NW
L ALIGN.

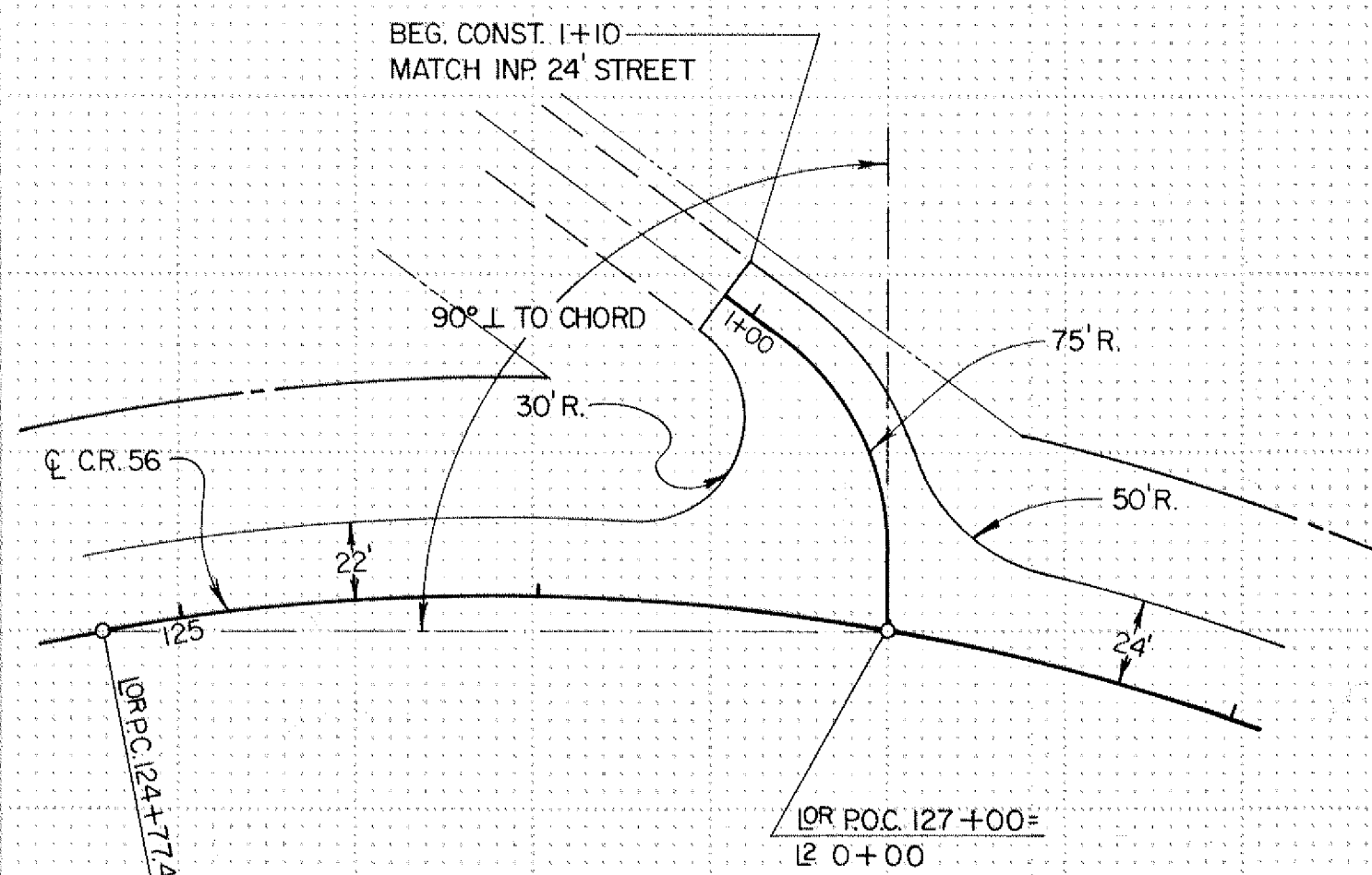
Fed. Proj. No.



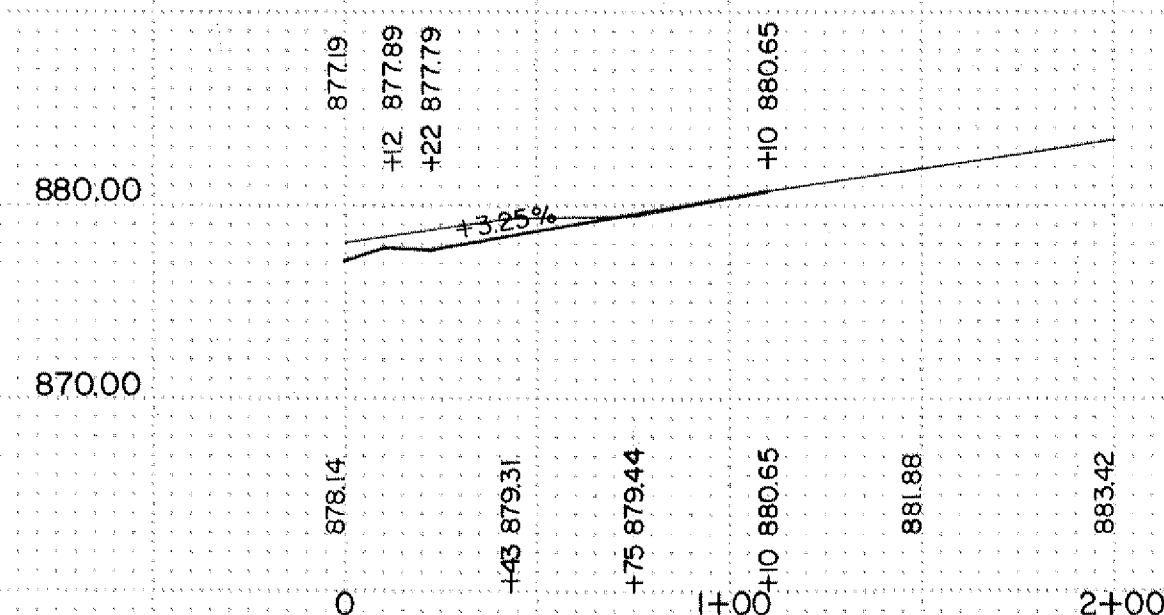
PROFILE



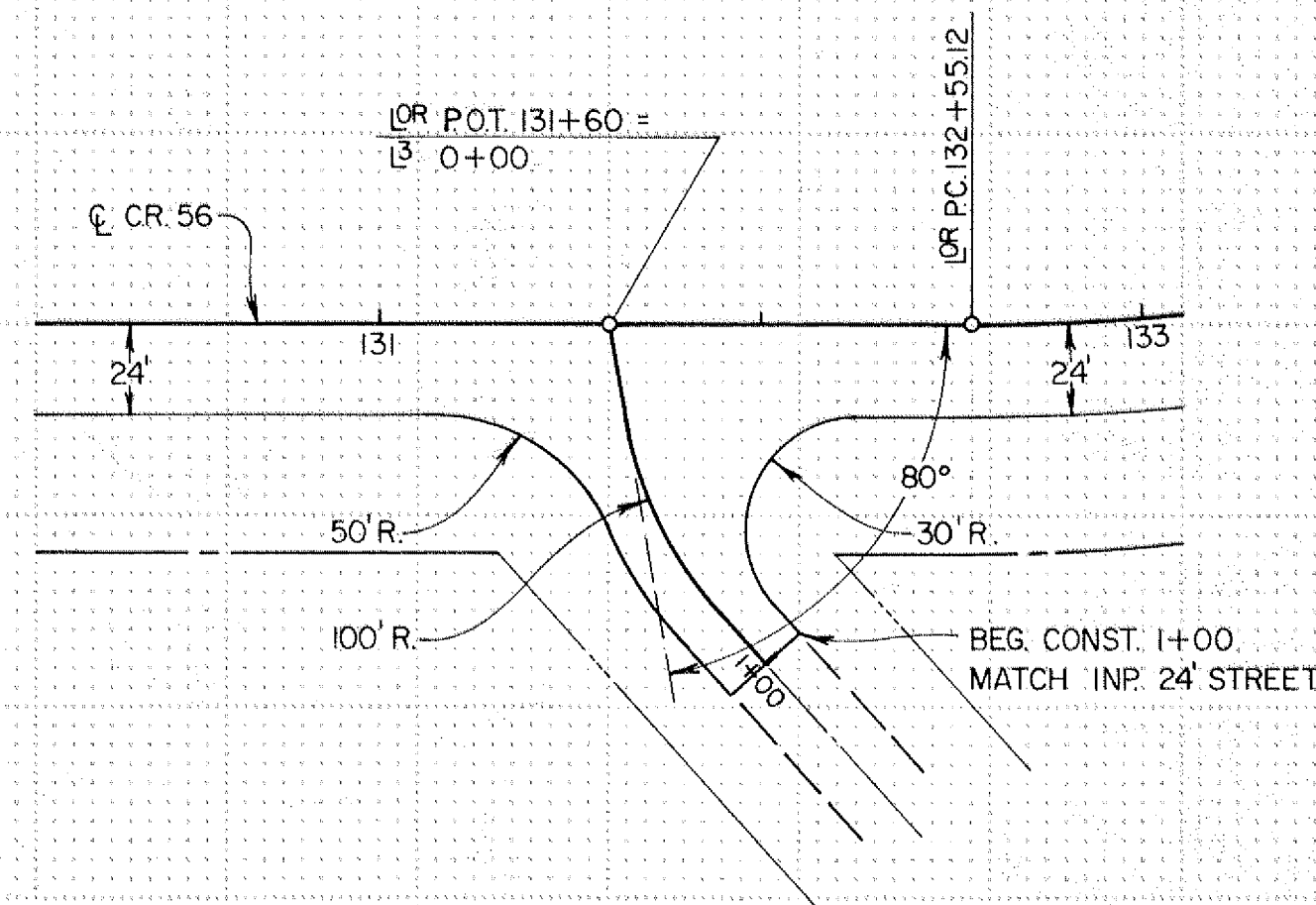
JCT. 159th LANE LT.
L ALIGN.



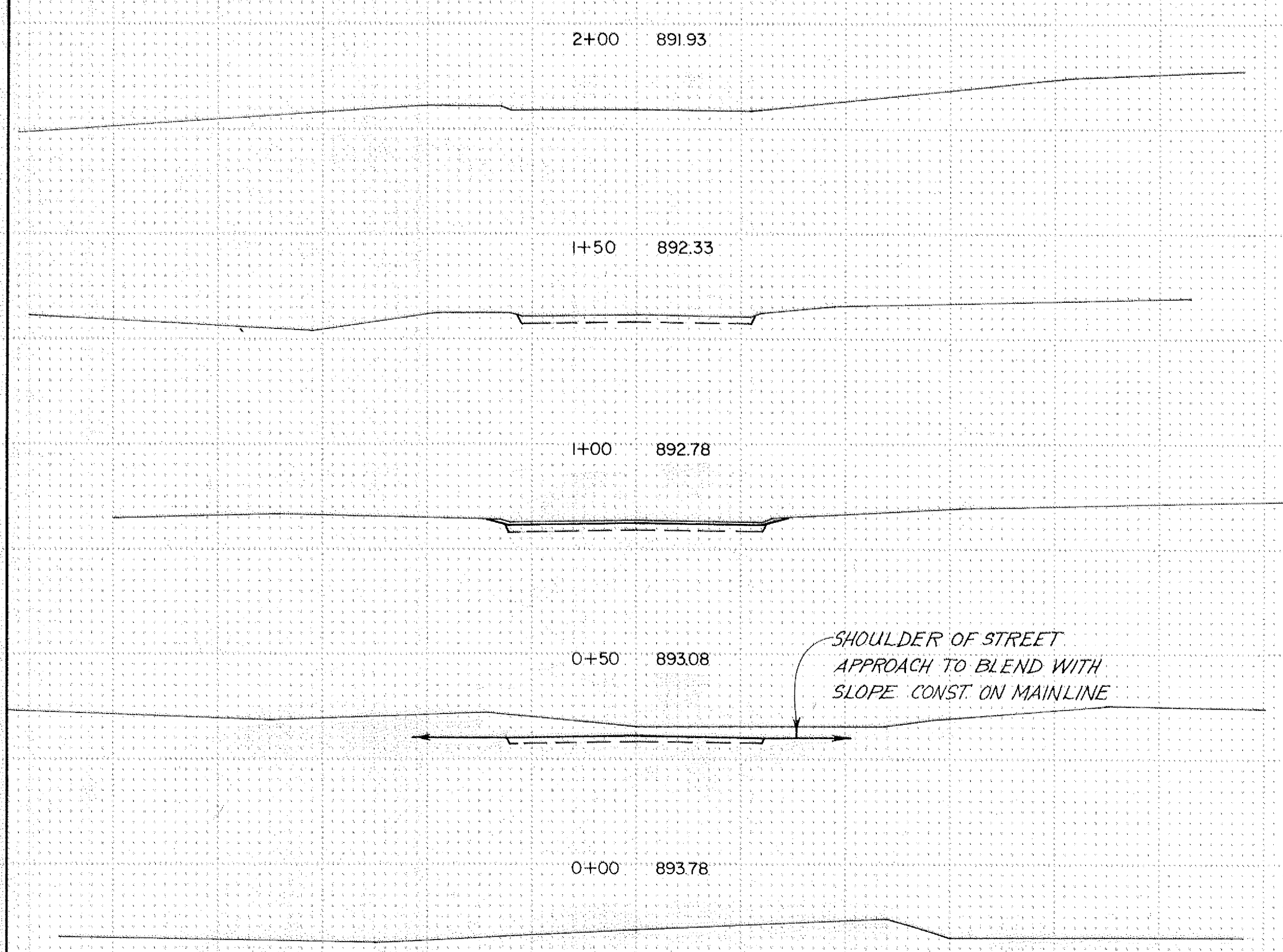
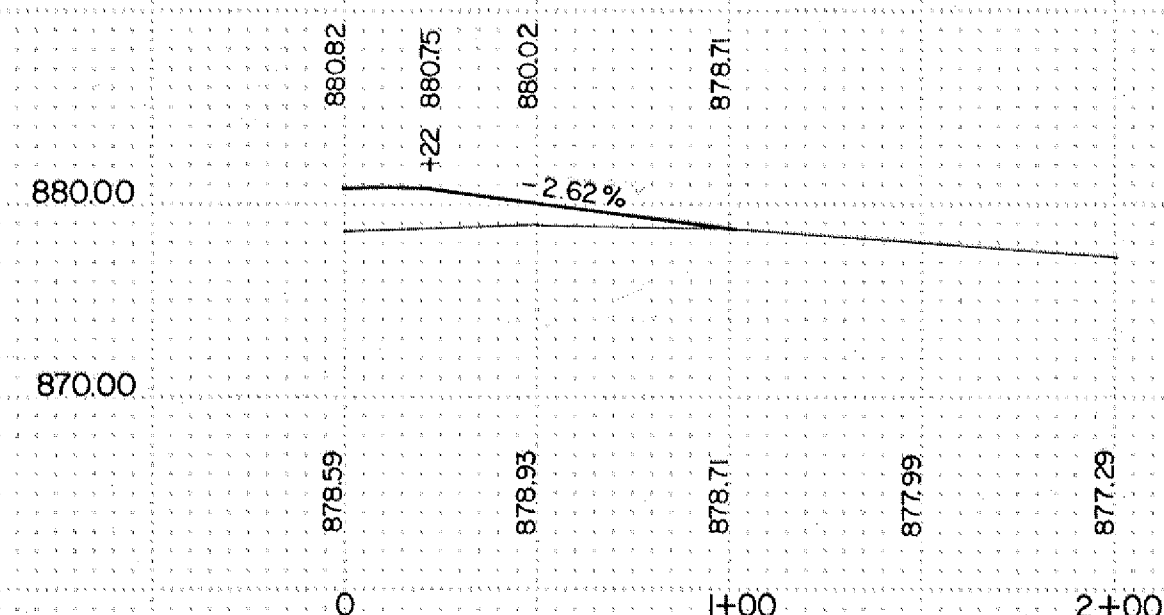
PROFILE



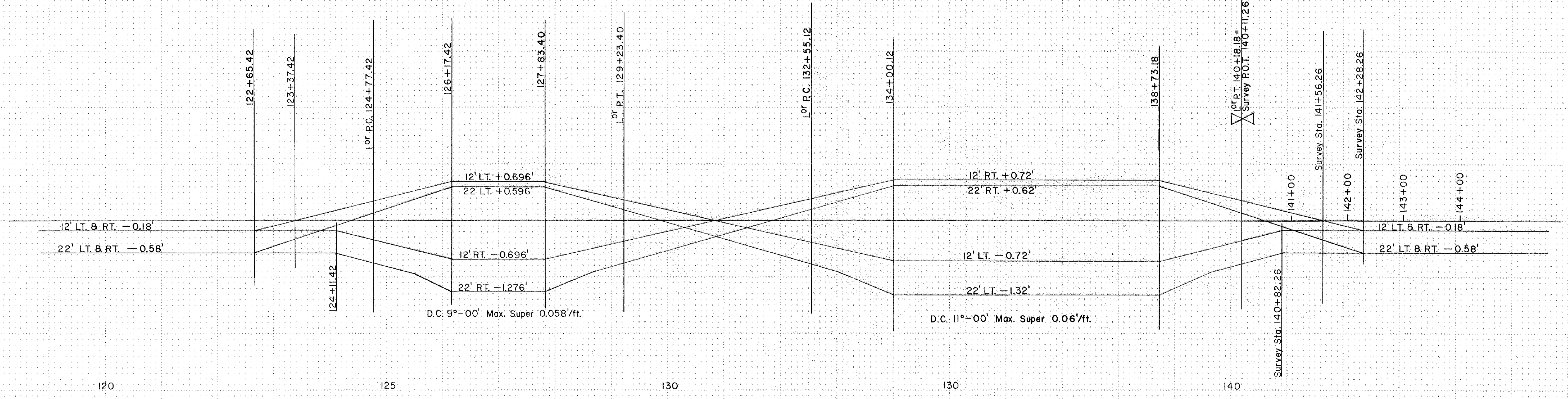
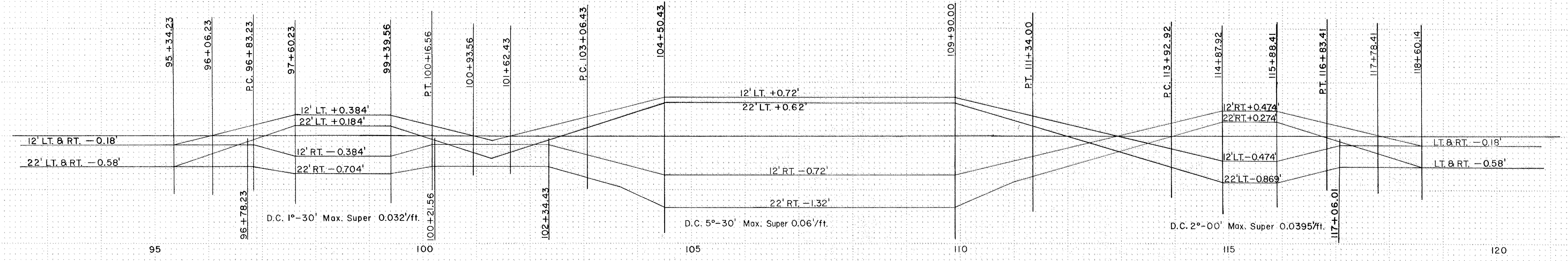
JCT. 158th AVE. NW
L ALIGN.



PROFILE



Superelevation, Finished Grade
C.P. 79-04-56



Scale: Vert. 1"=1'
Horiz. 1"=100'

BEGIN PROJECT C.P. 79-04-56
OR STA. 5+14

BM #1, ELEV. 864.74
TOP NE COR BOT STEP
SOUTHERLY SET OF STEPS
100' LT, STA 6+25

BM #3, ELEV. 870.86
TOP SE COR BOT STEP HO.# 14430
90' LT, STA. 27+00

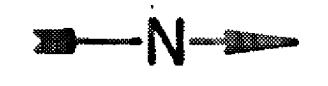
U.S.G.S. BM, ELEV. 864.41
MONUMENT 100' SO. & 400' E.
OF JCT. TH. 10 & CR 56

BM #2, ELEV. 871.50
DBLE SPIKE IN DBLE. 36" ELM
120' RT, STA. 20+88

OR PI. 7+00.16 = APT. 10' E. & L TO SURVEY STA. 7+50
 $\Delta = 2^\circ 23' 10''$ LT.
D = 1700'
R = 5729.58'
T = 119.32'
L = 238.61'

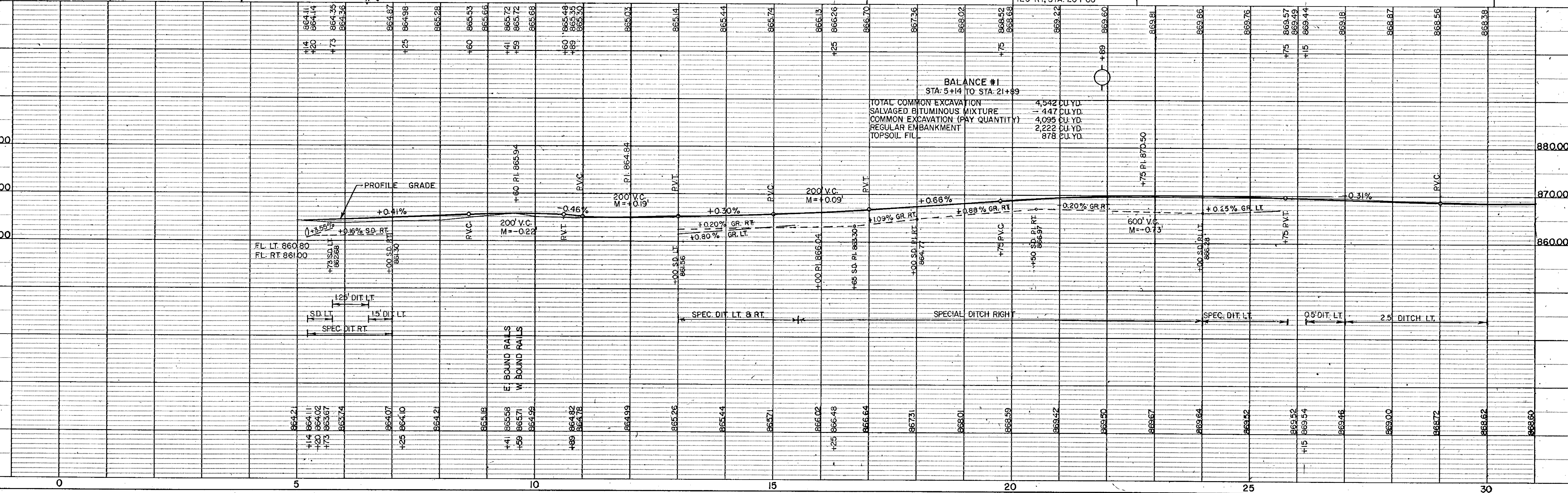
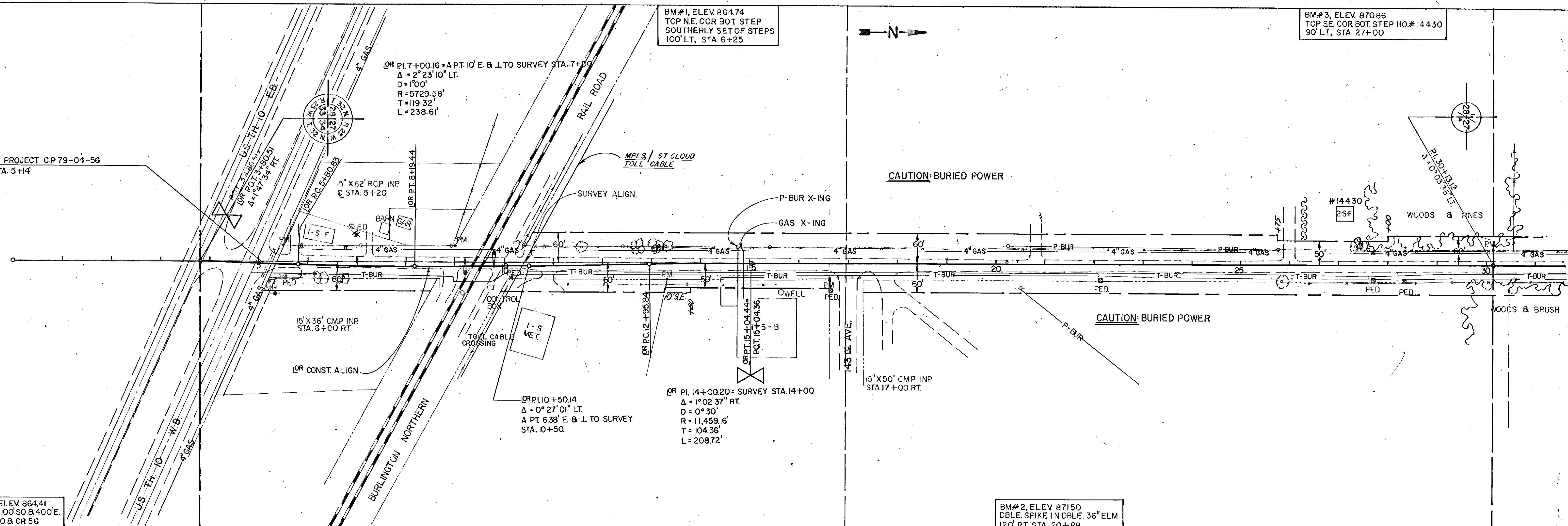
OR PI. 10+50.14
 $\Delta = 0^\circ 27' 01''$ LT.
A PT. 6.38' E. & L TO SURVEY
STA. 10+50.

OR PI. 14+00.20 = SURVEY STA. 14+00
 $\Delta = 1^\circ 02' 37''$ RT.
D = 0' 30"
R = 11,459.16'
T = 104.36'
L = 208.72'



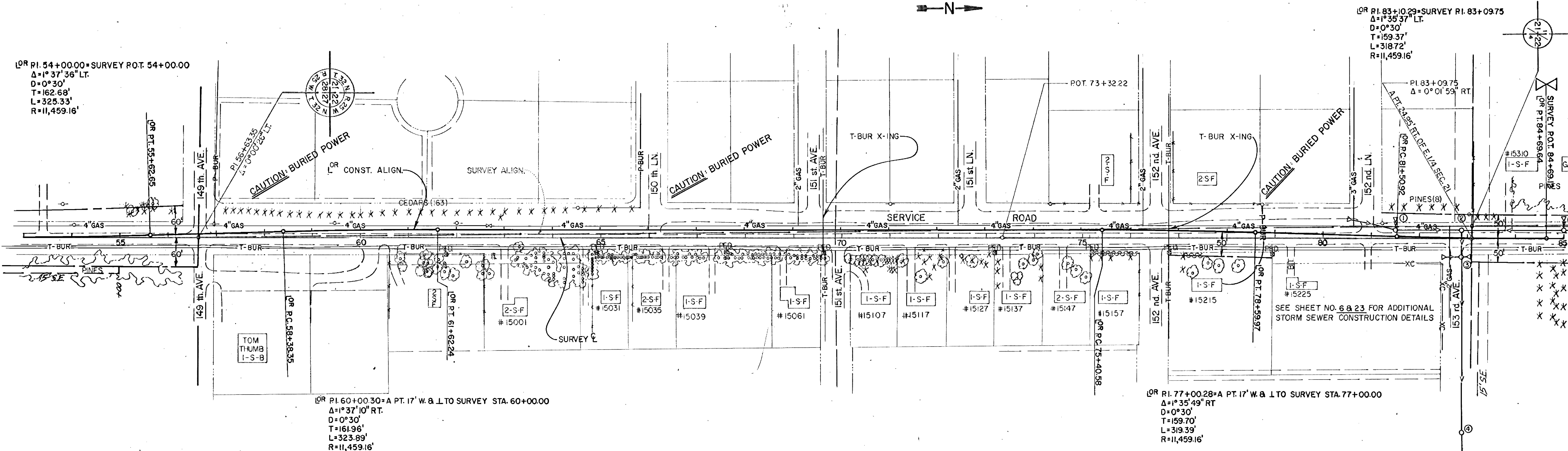
CAUTION: BURIED POWER

CAUTION: BURIED POWER



OR PT. 54+00.00= SURVEY POT. 54+00.00
 $\Delta=1^{\circ}37'36''$ LT.
 $D=0^{\circ}30'$
 $T=162.68'$
 $L=325.33'$
 $R=11,459.16'$

OR PT. 83+00.29= SURVEY PT. 83+09.75
 $\Delta=1^{\circ}35'37''$ LT.
 $D=0^{\circ}30'$
 $T=159.37'$
 $L=318.72'$
 $R=11,459.16'$



OR PT. 60+00.30= A PT. 17' W. & L TO SURVEY STA. 60+00.00
 $\Delta=1^{\circ}37'10''$ RT.
 $D=0^{\circ}30'$
 $T=161.96'$
 $L=323.89'$
 $R=11,459.16'$

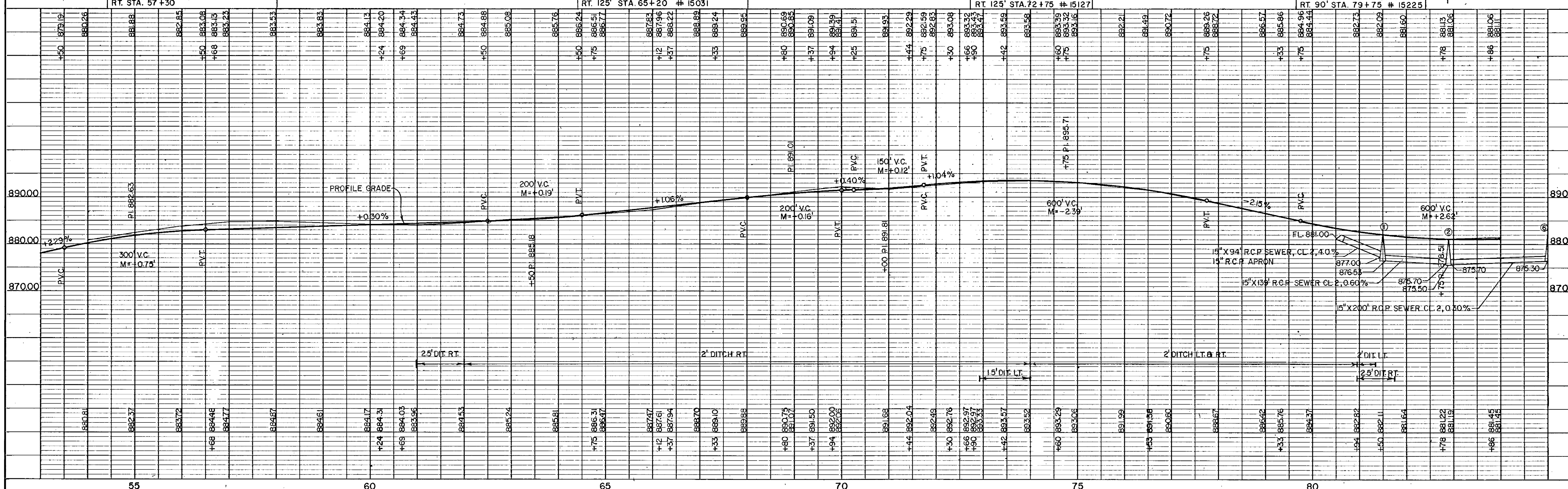
OR PT. 77+00.28= A PT. 17' W. & L TO SURVEY STA. 77+00.00
 $\Delta=1^{\circ}35'49''$ RT.
 $D=0^{\circ}30'$
 $T=159.70'$
 $L=319.39'$
 $R=11,459.16'$

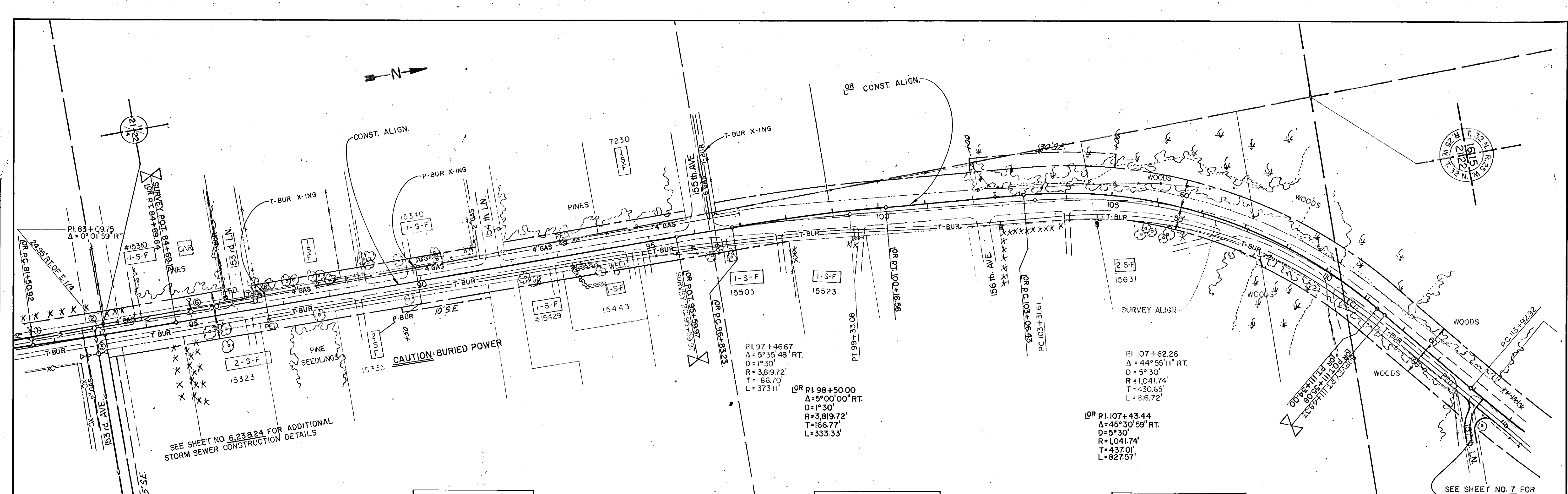
B.M. # 6 ELEV. 882.63
 TOP S.W. COR. CONC. WALK (TOM THUMB)
 RT. STA. 57+30

B.M. # 7 ELEV. 890.43
 TOP S.W. COR. BOT. STEP (FRONT STEP)
 RT. STA. 65+20 # 15031

B.M. # 8 ELEV. 893.15
 TOP S.W. COR. BOT. STEP
 RT. STA. 72+75 # 15127

B.M. # 9 ELEV. 885.66
 TOP N.W. COR. BOT. STEP
 RT. STA. 79+75 # 15225





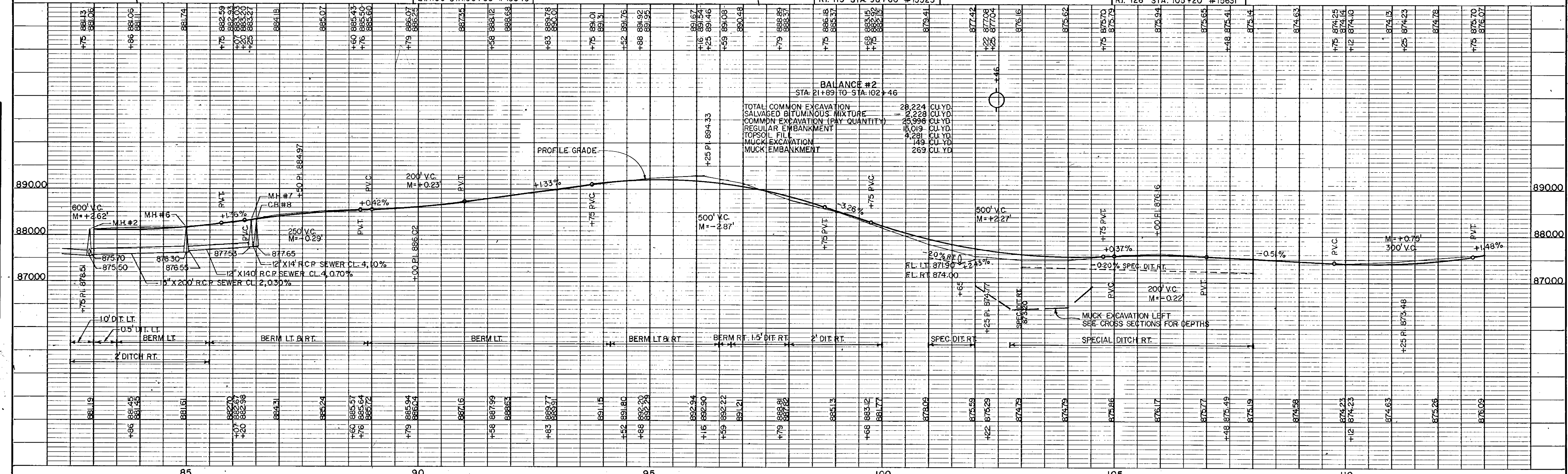
SEE SHEET NO. 6.23824 FOR ADDITIONAL STORM SEWER CONSTRUCTION DETAILS

SEE SHEET NO. 7 FOR CONSTRUCTION DETAILS

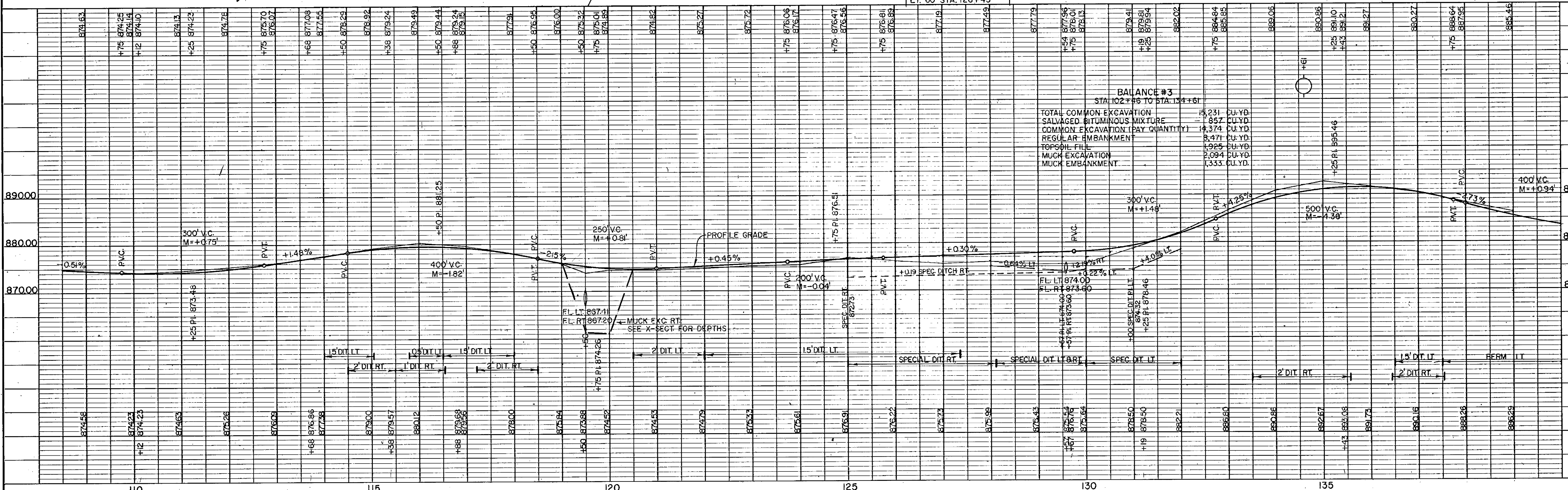
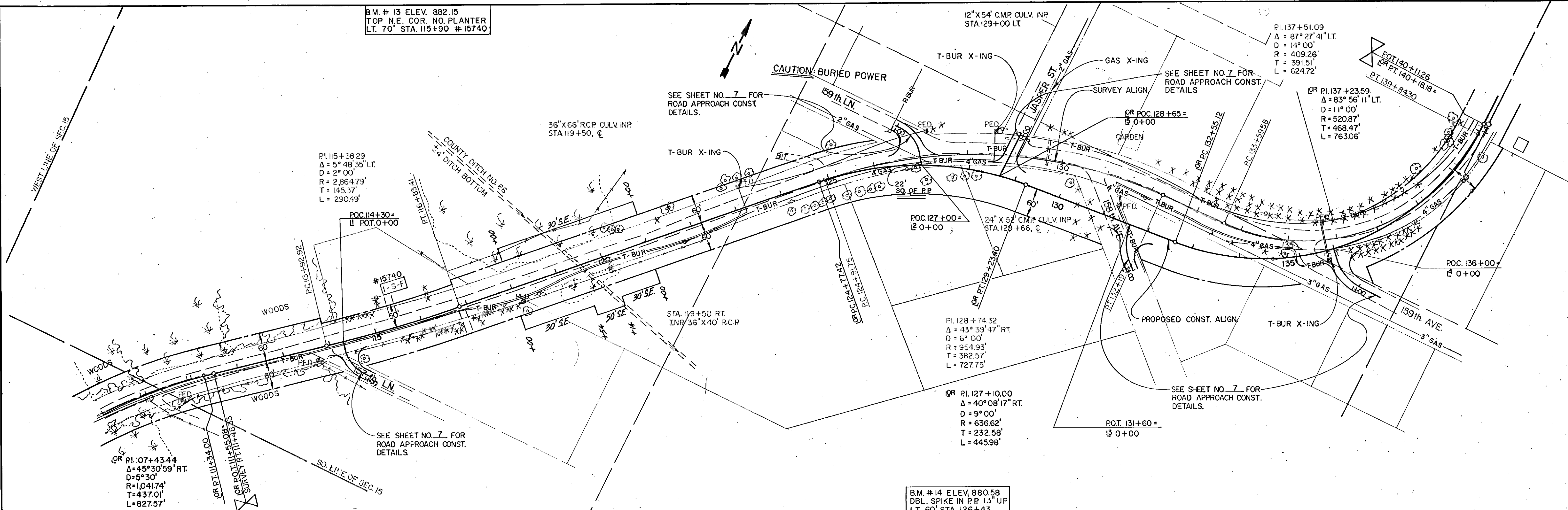
BM # 10 ELEV 890.18
TOP S.E. COR. BOT. STEP
LT. 106' STA 90+00 # 15340

BM # 11 ELEV 893.14
TOP SW. COR. BOT. STEP
RT. 113' STA 98+60 # 15523

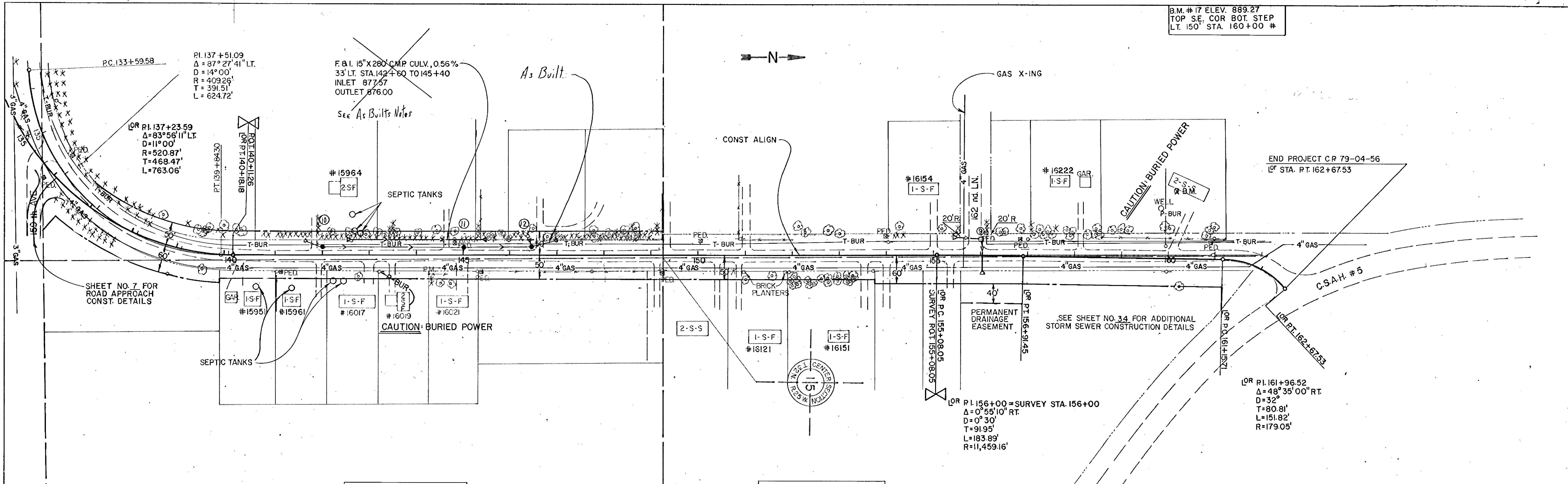
BM # 12 ELEV 881.65
TOP SW. COR. BOT. STEP
RT. 126' STA 105+20 # 15631



B.M. # 13 ELEV. 882.15
 TOP N.E. COR. NO. PLANTER
 LT. 70' STA. 115+90 # 15740

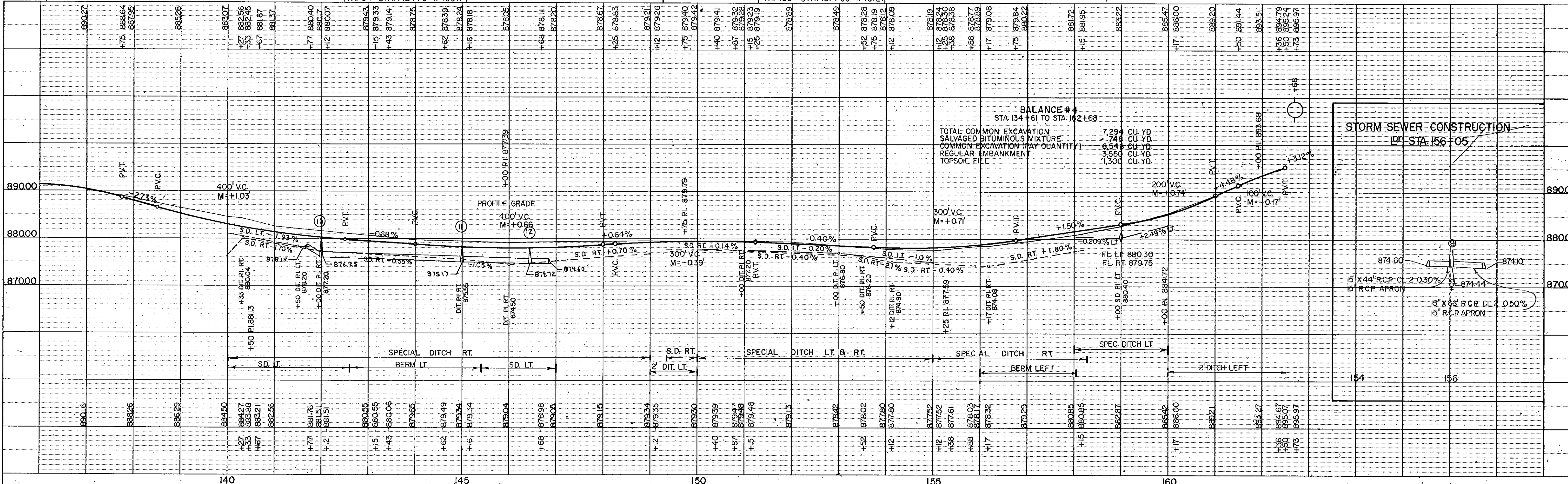


B.M. # 17 ELEV. 889.27
 TOP S.E. COR. BOT. STEP
 LT. 150' STA. 160+00 #



B.M. # 15 ELEV. 881.64
 TOP S.W. COR. TOP STEP
 RT. 84' STA. 142+70 # 16017

B.M. # 16 ELEV. 883.31
 TOP S.W. COR. BOT. STEP
 RT. 160' STA. 151+50 # 16121



BALANCE #4
 STA. 134+61 TO STA. 162+68
 TOTAL COMMON EXCAVATION 7,294 CU. YD
 SALVAGED BITUMINOUS MIXTURE 748 CU. YD
 COMMON EXCAVATION (PAY QUANTITY) 6,546 CU. YD
 REGULAR EMBANKMENT 3,550 CU. YD
 TOPSOIL FILL 1,300 CU. YD

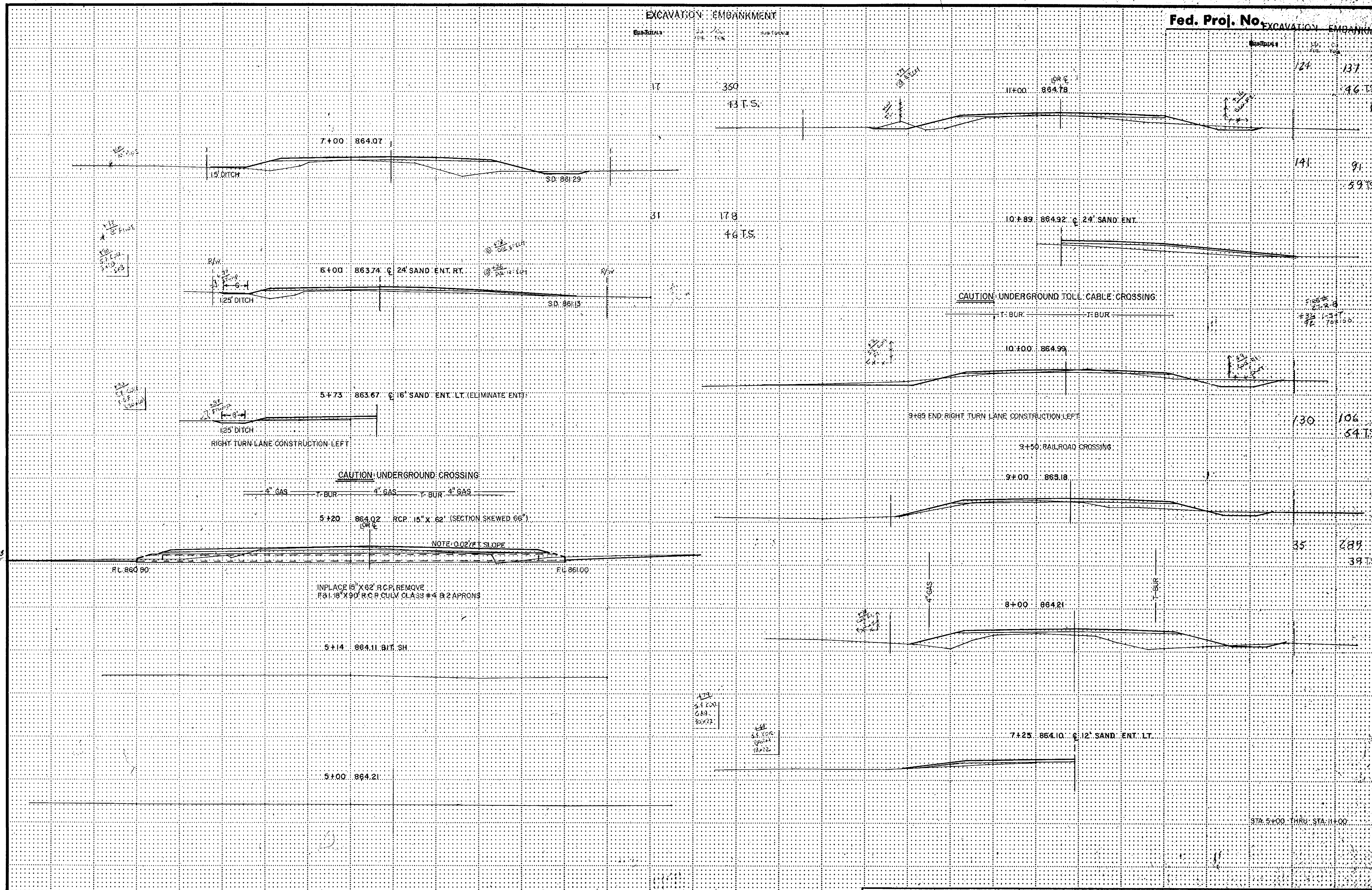
STORM SEWER CONSTRUCTION
 STA. 156+05

EXCAVATION EMBANKMENT

Fed. Proj. No. EXCAVATION EMBANKMENT

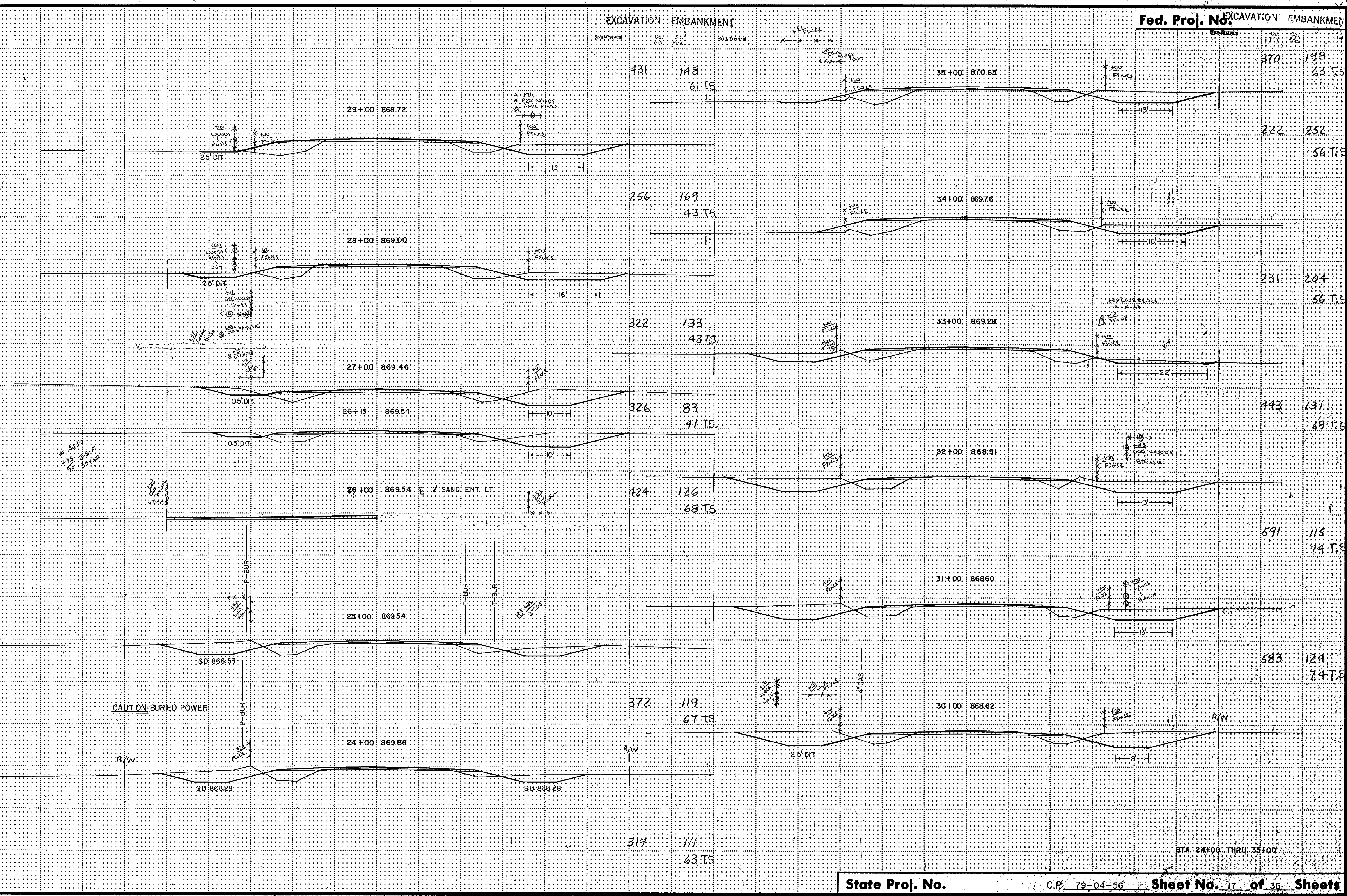
DATE: 10/25/66
BY: JES
SUB-TITLE:

DATE: 10/25/66
BY: JES
SUB-TITLE:



132

TELEPHONE POST CROSS SECTION, 10 FT 0\"/>



2-5-F

CAUTION BURIED POWER

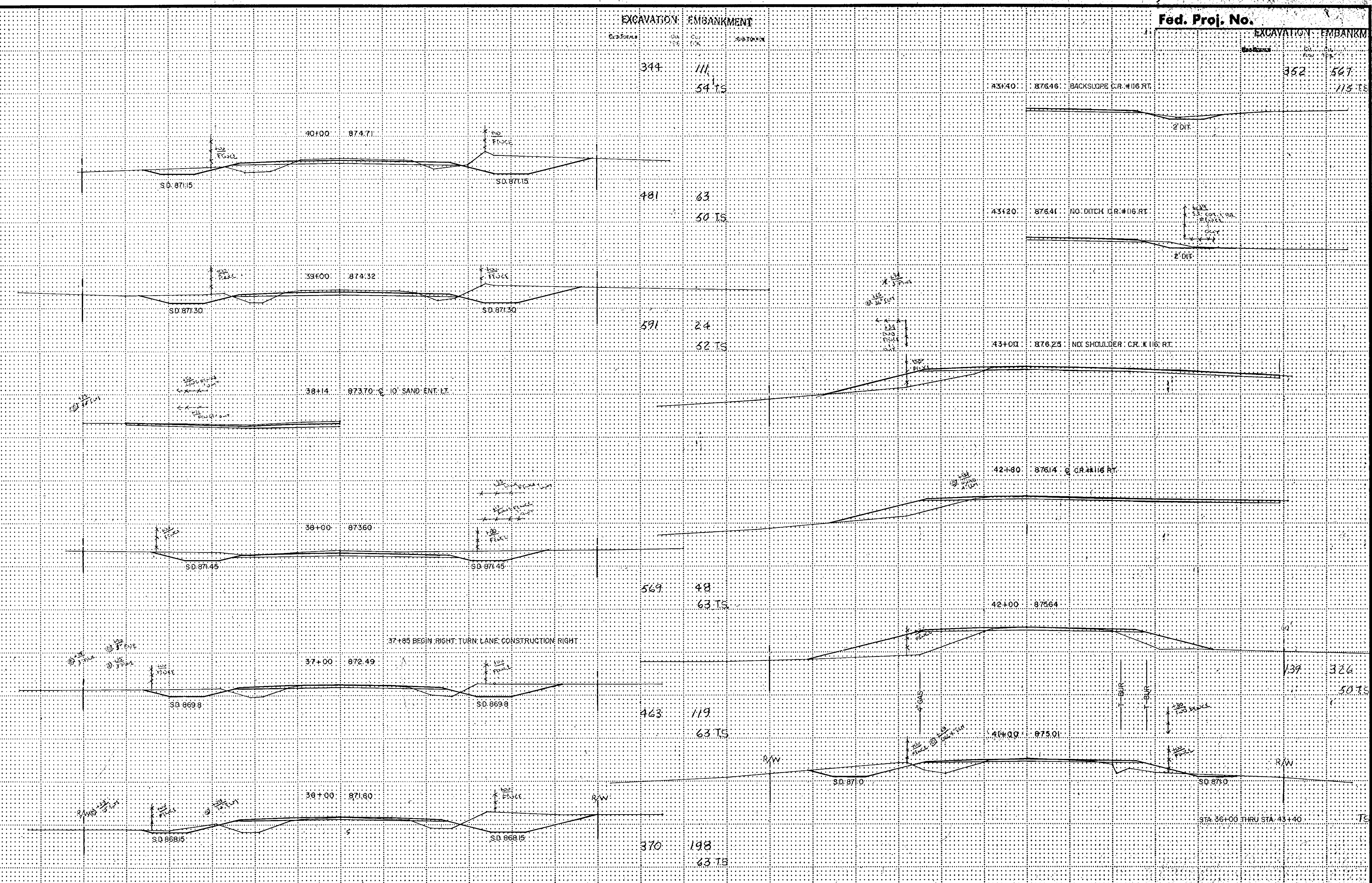
R/W

R/W

R/W

STA. 24+00 THRU 35+00

TELETYPE POST CROSS SECTION 1011 9/76



TELETYPE POST CROSS SECTION UNIT 97A

EXCAVATION EMBANKMENT

Fed. Proj. No. 213 596

Excavation: 1096 13 87 TS

Excavation: 213 596 65 TS

56+68 884.48 C 149 TH AVE. N.W. L.T. & RT. BIT

60+69 884.03 C 16' SAND ENT. RT.

RIGHT TURN LANE CONSTRUCTION LEFT
P-BUR P-BUR
CAUTION BURIED POWER

56+00 883.72

60+24 884.31 C 24' SAND ENT. RT.

894 46 78 TS

60+00 884.17

R/W 122' RT.

733 48 83 TS

337 482

83 TS

54+00 880.81

59+00 884.61

R/W 110' RT.

1185 67 85 TS

615 169

91 TS

53+00 878.36

58+00 884.87

R/W 118' RT.

722 163 67 TS

985 0

89 TS

52+00 879.91

57+00 884.77

R/W 110' RT.

665 256 48 TS

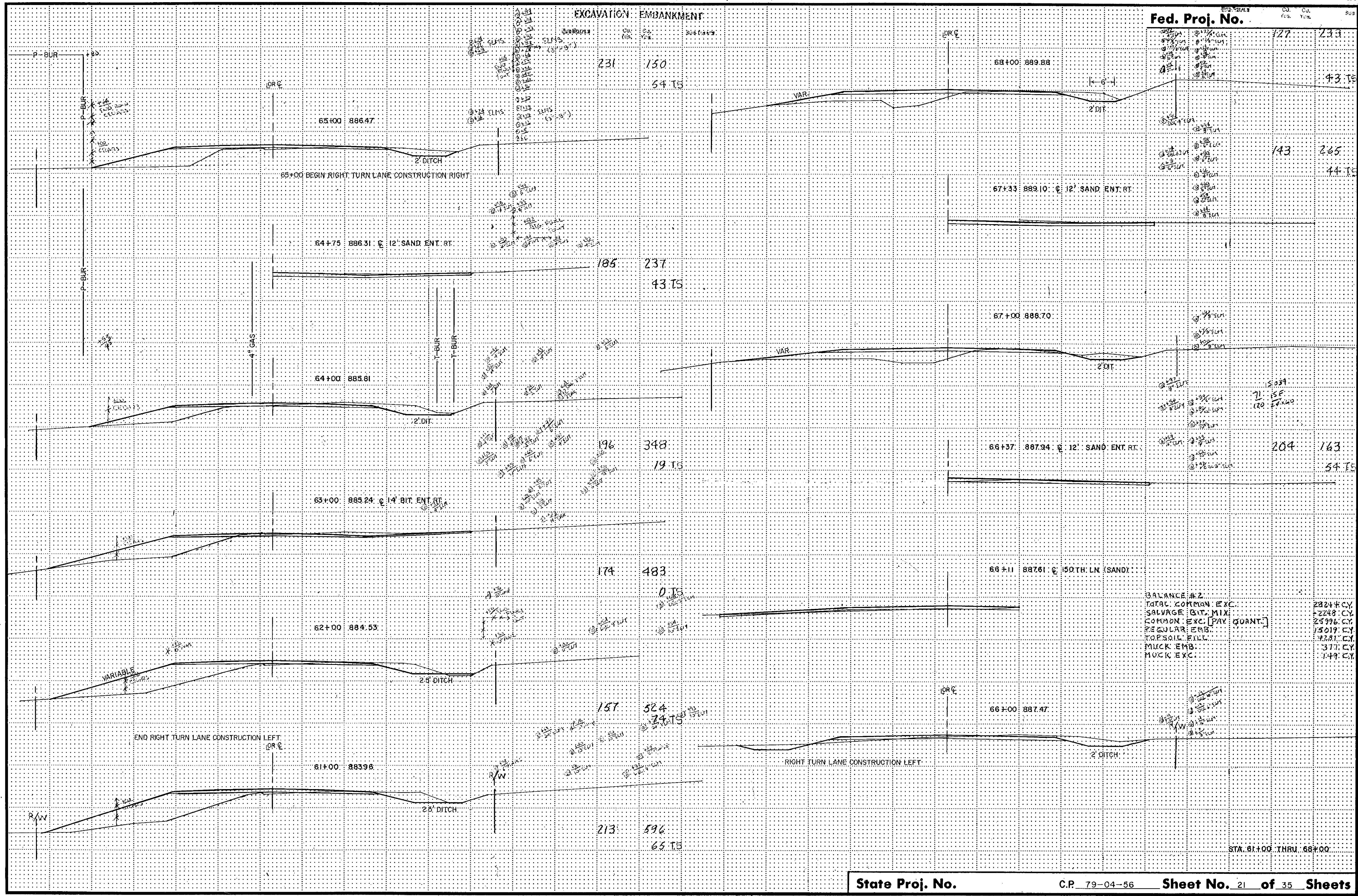
STA 51+79 BEGIN RIGHT TURN LANE CONSTRUCTION RIGHT

STA 52+00 THRU 60+69

TELEPHONE POST CROSS SECTION, UNIT 976

Fed. Proj. No.

127 233



TELETYPE POST CROSS SECTION 1011 9/76

State Proj. No.

C.P. 79-04-56

Sheet No. 21 of 35 Sheets

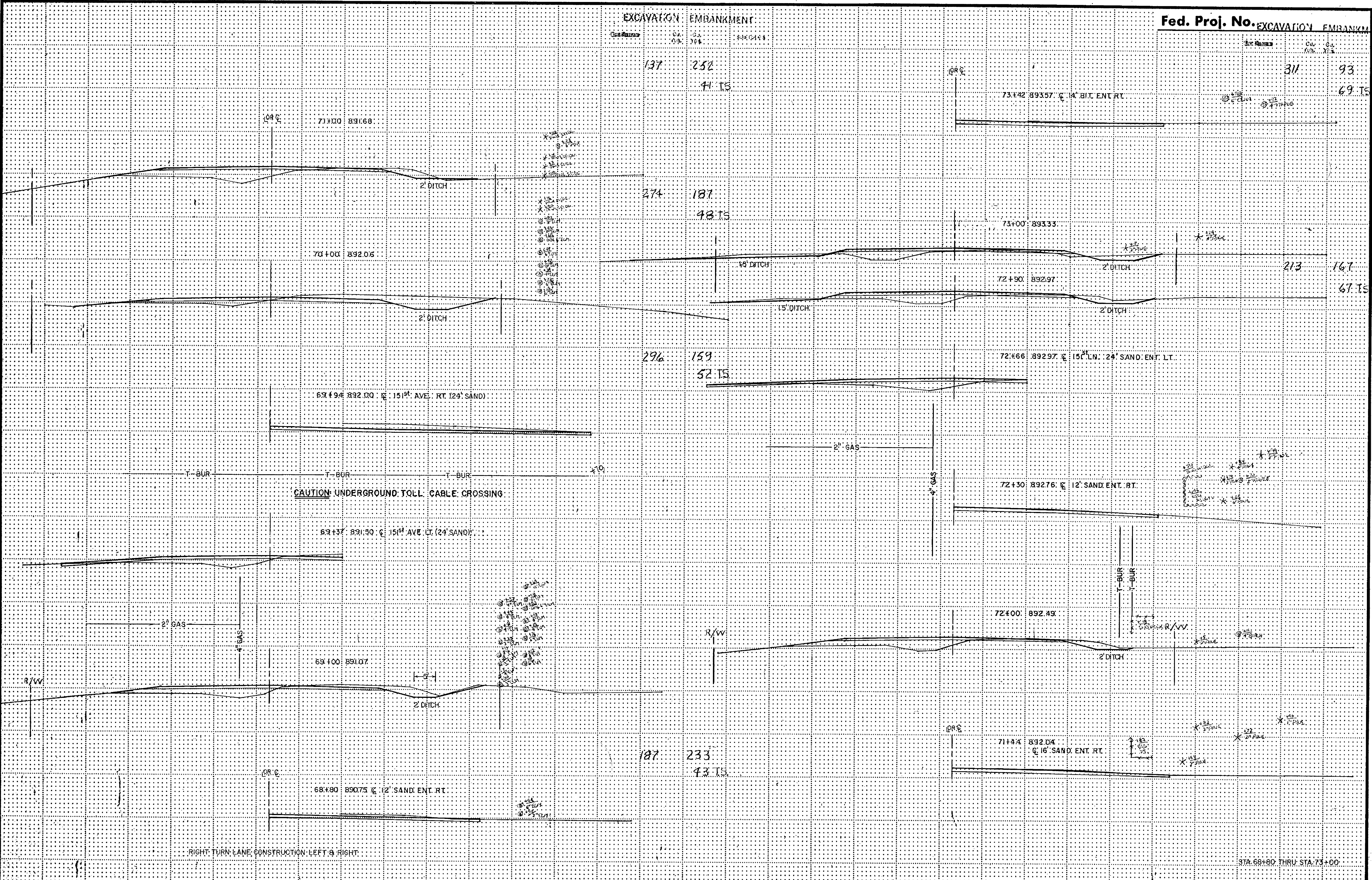
STA. 61+00 THRU 68+00

EXCAVATION EMBANKMENT

Excavation	Emb. No.	Exc. No.	Exc. No.
137	252	74	74

Fed. Proj. No. EXCAVATION EMBANKMENT

Excavation	Emb. No.	Exc. No.	Exc. No.
311	93	74	74



CAUTION: UNDERGROUND TOLL CABLE CROSSING

RIGHT TURN LANE CONSTRUCTION LEFT & RIGHT

STA 68+80 THRU STA 73+00

TEMPORARY POST CROSS SECTION, 10/1/79

EXCAVATION EMBANKMENT

EXCAVATION EMBANKMENT

415

91

↑

65 TS

52

136

21 TS

77+00 890.60

FL: 878.40

FL: 877.68

F 81: 12" X 18" R.C.P. SEWER CL. 4, 3.0%
F 81: ONE 12" R.C.P. APRON

OR C

81+50 882.11

M.H.#1

25' DITCH

239

317

52 TS

2' DITCH

2' DITCH

CAUTION: UNDERGROUND CABLE CROSSING

T-BUR

T-BUR

T-BUR

76+53 891.38 C 152nd AVE. LT. RT. 24' SAND

461

44

63 TS

80+94 882.82 C 152nd LANE LT. 24' SAND

2' DITCH

3" GAS

2" GAS

80+00 884.37

2' DITCH

2' DITCH

465

152

61 TS

76+00 891.99

2" GAS

4" GAS

2' DITCH

2' DITCH

79+33 885.76 C 14' BIT. ENT. RT.

411

52

61 TS

75+00 893.06

2' DITCH

2' DITCH

79+00 886.42

333

83

54 TS

74+60 893.29 C 14' SAND ENT. RT.

2' DITCH

2' DITCH

341

141

63 TS

CAUTION: BURIED POWER

P-BUR

78+00 888.67

2' DITCH

2' DITCH

74+00 893.52

OR C

R/W

2' DITCH

2' DITCH

RIGHT TURN LANE CONSTRUCTION LEFT & RIGHT

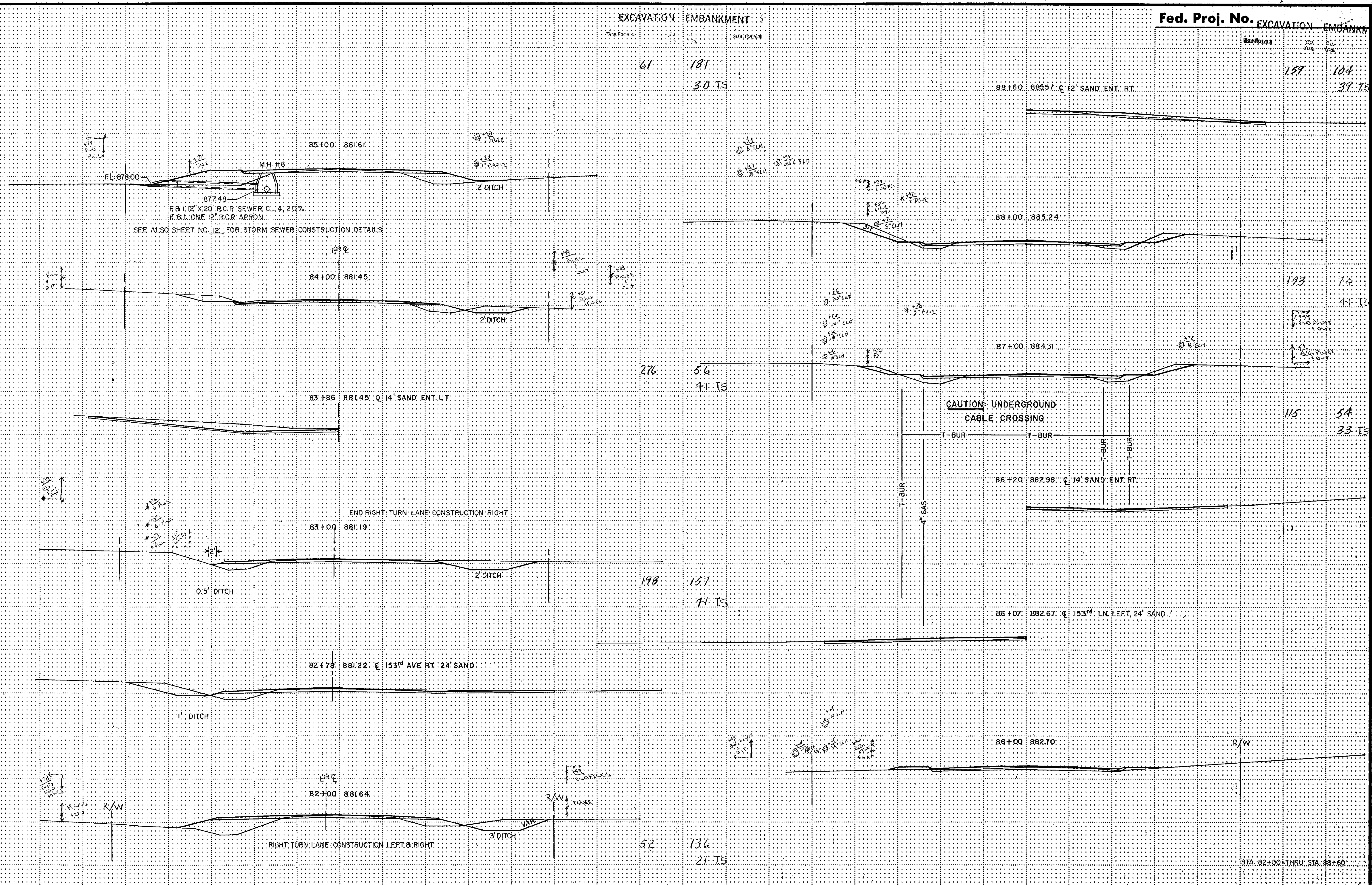
311

93

69 TS

STA. 74+00 THRU STA. 81+50

EXCAVATION EMBANKMENT



61 181
3.0 TS

157 104
39.75

276 56
41 TS

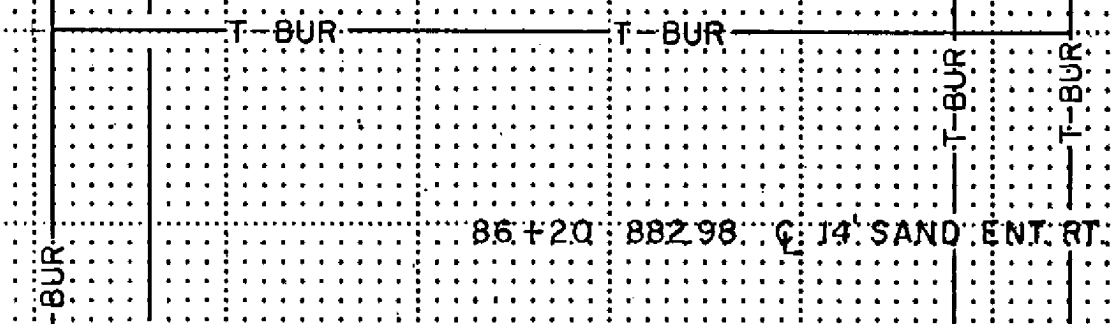
193 74
41 TS

115 54
33 TS

198 157
41 TS

52 136
21 TS

CAUTION UNDERGROUND
CABLE CROSSING



STA. 82+00 THRU STA. 88+60

TELETYPE POST CROSS SECTION 1011 574

Excavation	Emb. Vol.	Exc. Vol.	Sub-Contract
68	263		
	43 TS		

Excavation	Emb. Vol.
78	115
	28 TS

Excavation	Emb. Vol.
65	130
	28 TS

Excavation	Emb. Vol.
93	113
	30 TS

68 263
43 TS

94+88 89220 C 14' SAND ENT. RT.

91+58 88799 C 154th LN. LT 24' SAND

94+52 89180 C 14' SAND ENT. RT.

91+00 88716

94+00 89115

90+00 88604

22 530
61 TS

93+00 88991

CAUTION UNDERGROUND CROSSING

48 706
52 TS

89+79 88594 C 14' BIT. ENT. LT.

92+83 88977 C 14' BIT. ENT. RT.

89+00 88872

R/W

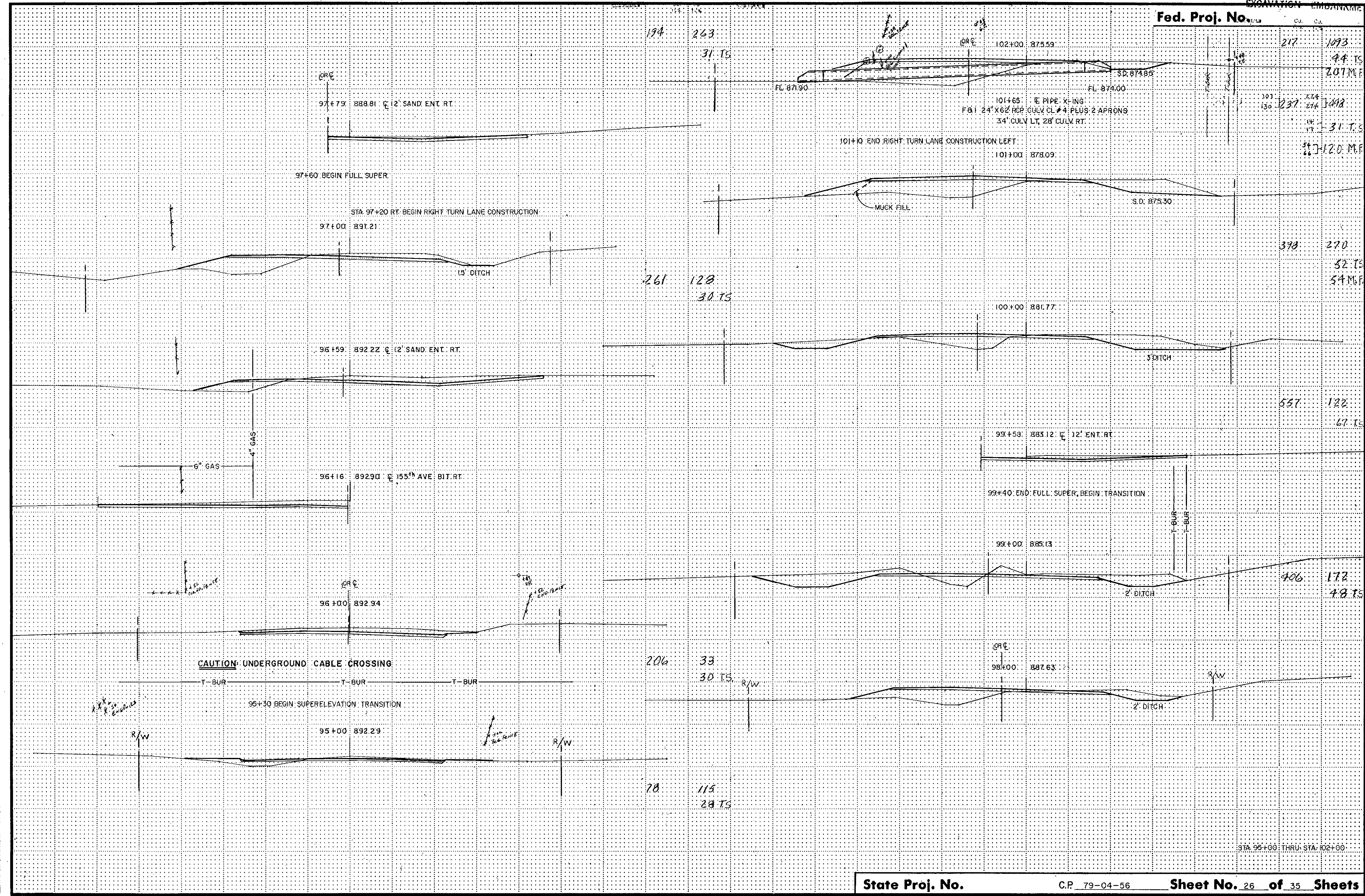
92+00 88863

88+76 88864 C 12' SAND ENT. LT.

RIGHT TURN LANE CONSTRUCTION LEFT

159 104
39 TS

STA: 88+76 THRU STA: 94+88



194 263

31 TS

217 1093

44 TS

207 MF

101 130 237 274 498

31 TS

120 MF

261 128

30 TS

378 270

32 TS

54 MF

557 122

67 TS

406 172

48 TS

206 33

30 TS

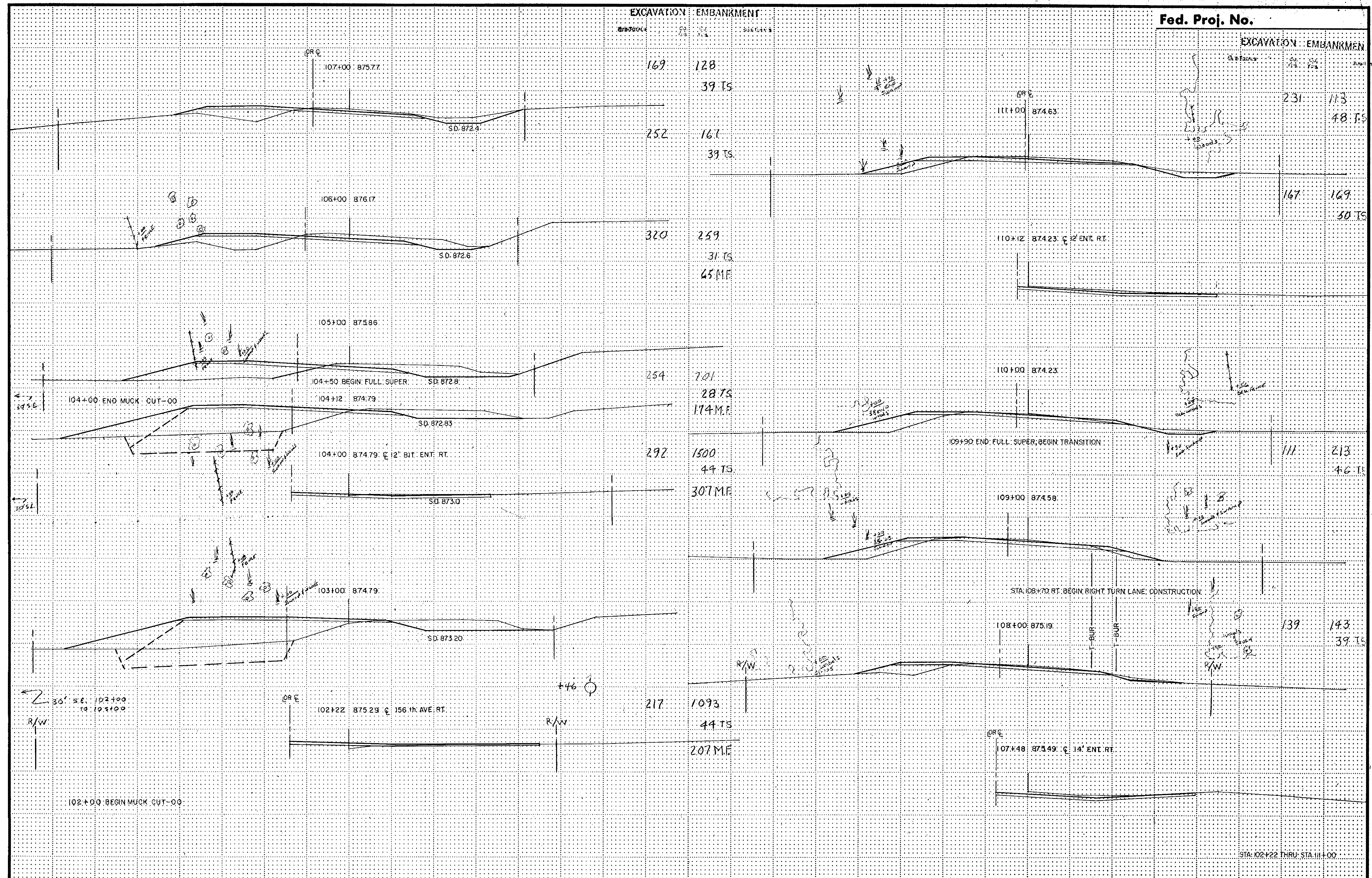
R/W

78 115

28 TS

STA. 95+00 THRU STA. 102+00

TELETYPE POST CROSS SECTION 10/1 9/76



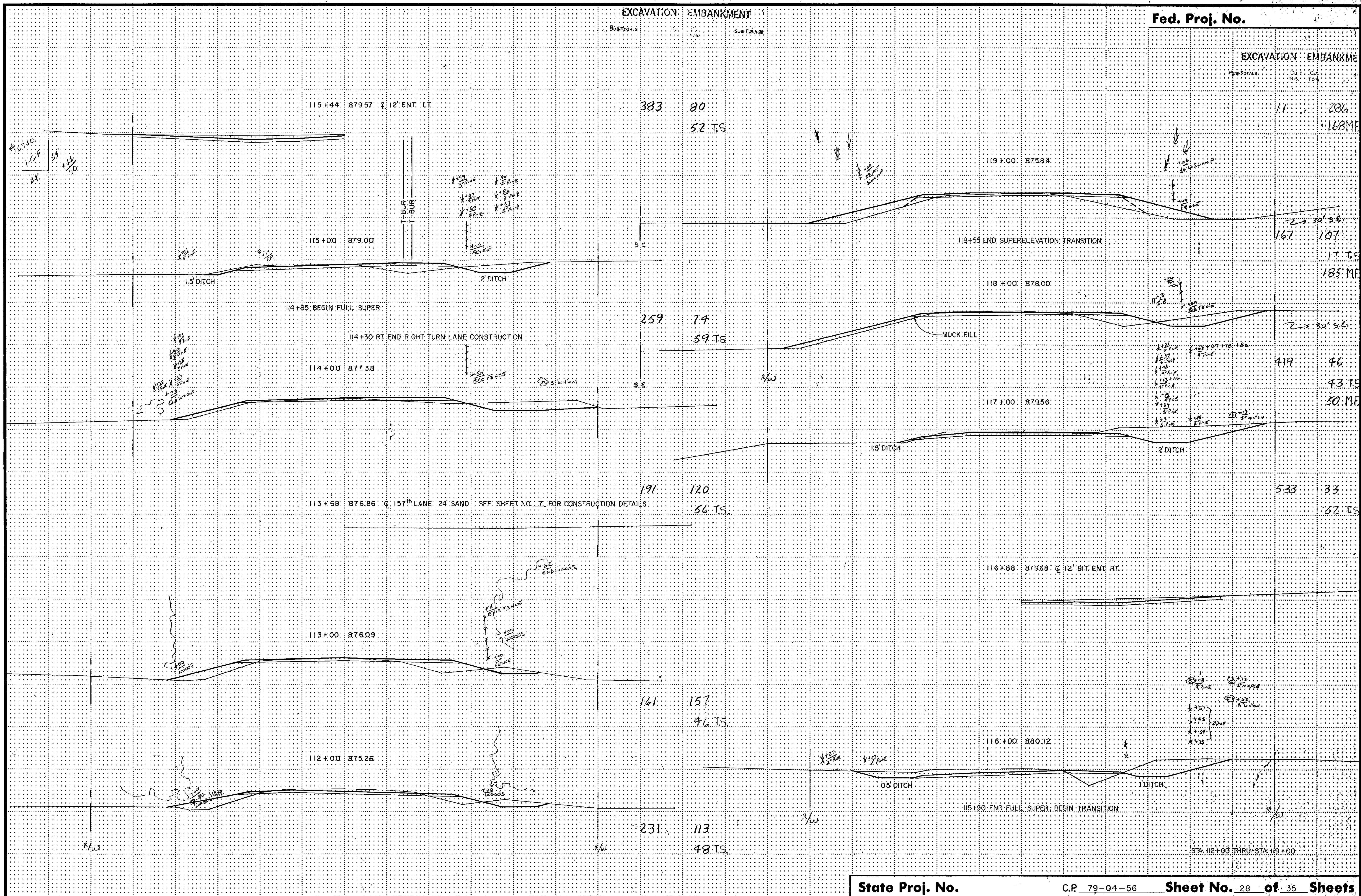
Station	Excavation	Embankment
107+00	169	128
		39 TS
	252	161
		39 TS
106+00	320	259
		31 TS
		45 MF
105+00	254	701
		28 TS
		174 MF
104+00	292	1500
		44 TS
		307 MF
103+00	217	1093
		44 TS
		207 MF
102+22		
107+48		

Station	Excavation	Embankment
111+00	231	113
		48 TS
110+12	167	169
		50 TS
110+00		
109+00		
108+00	139	143
		39 TS

TELETYPE POST CROSS SECTION UNIT 97%

EXCAVATION	EMBANKMENT
383	80
	52 TS

EXCAVATION	EMBANKMENT
11	286
	168 MF



383	80
	52 TS

11	286
	168 MF

259	74
	59 TS

167	107
	17 TS
	185 MF

191	120
	56 TS

533	33
	32 TS

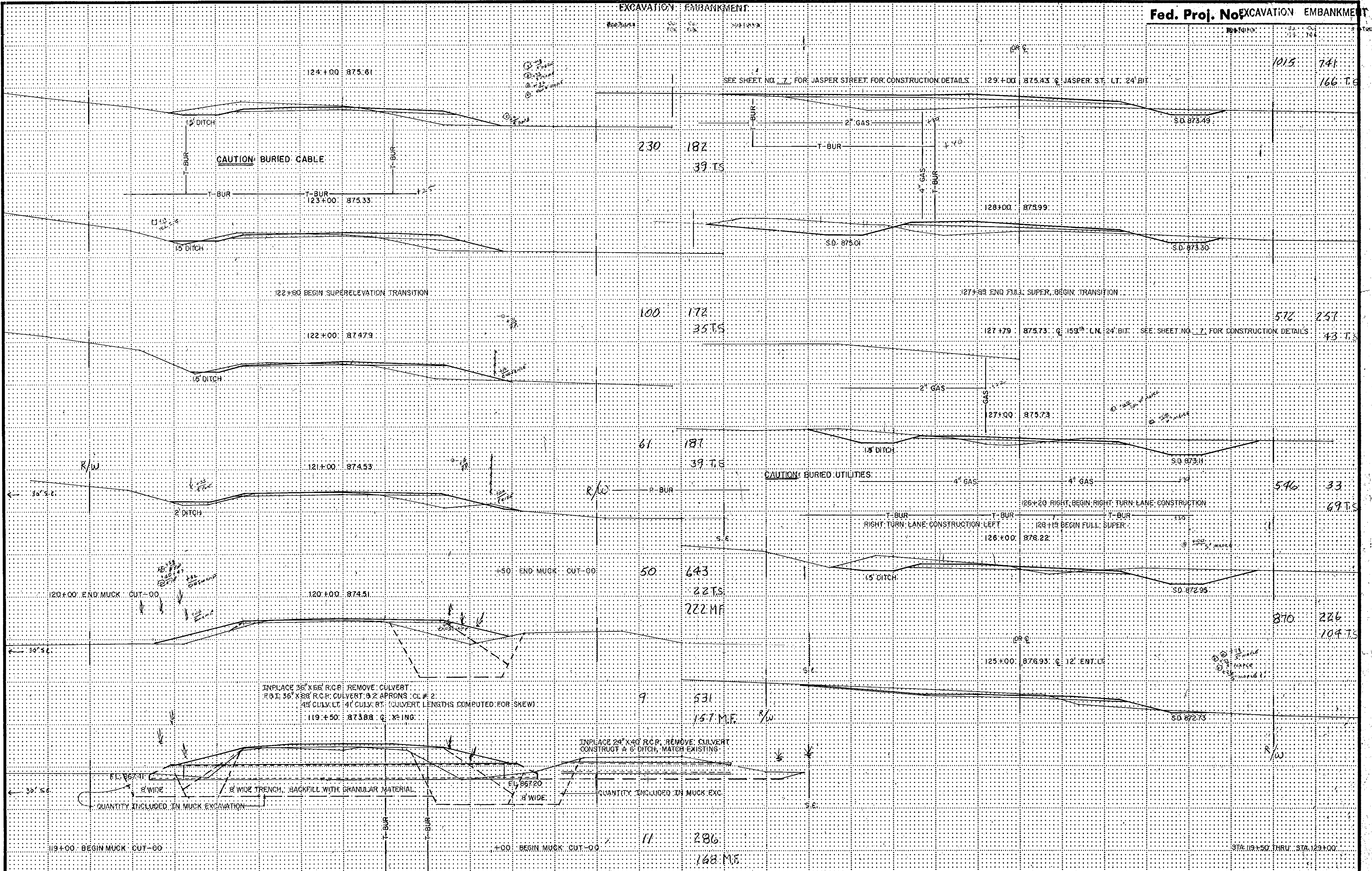
161	157
	46 TS

11	286
	168 MF

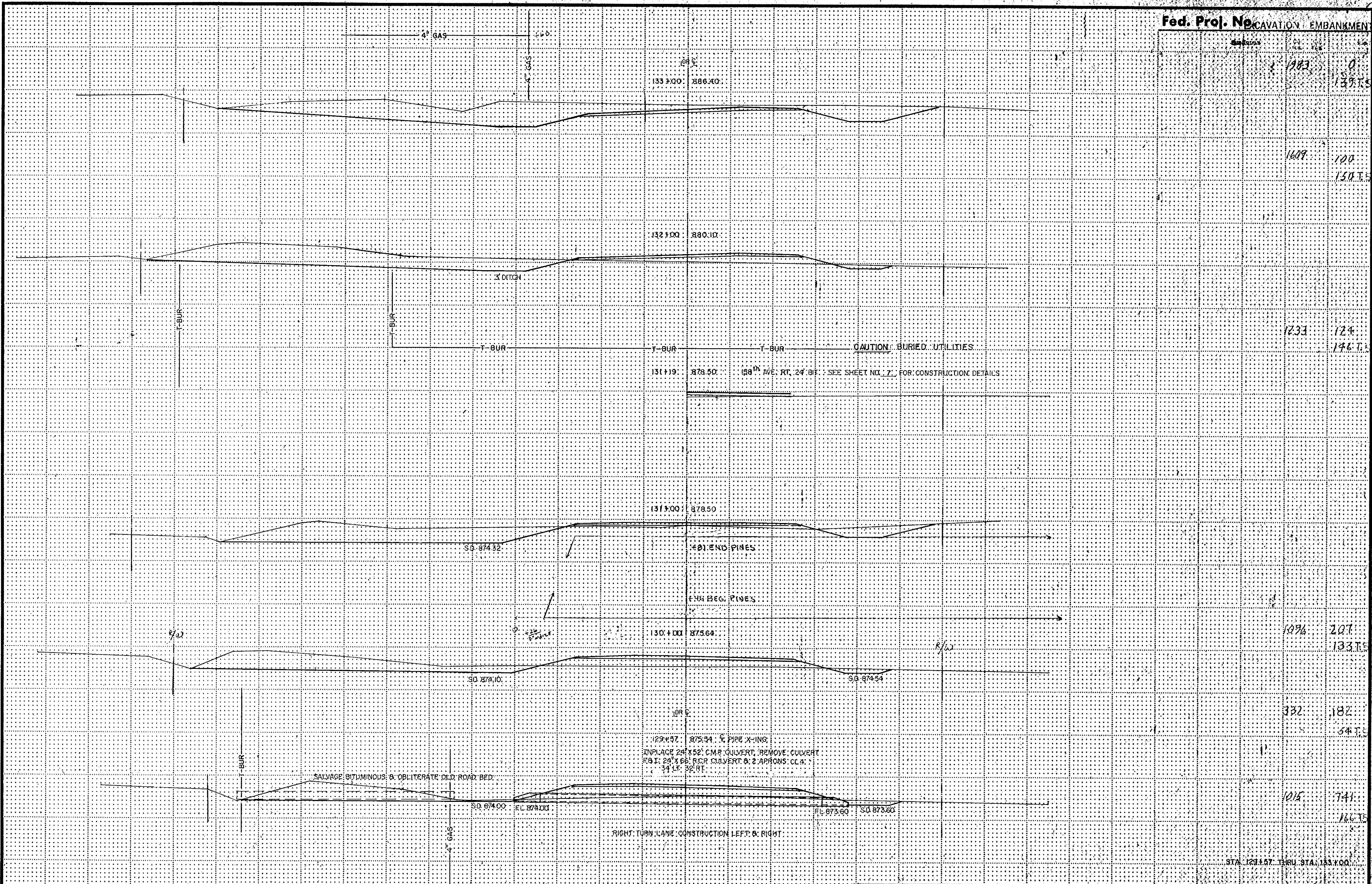
231	113
	48 TS

11	286
	168 MF

TELETYPE POST CROSS SECTION 1011 9/76



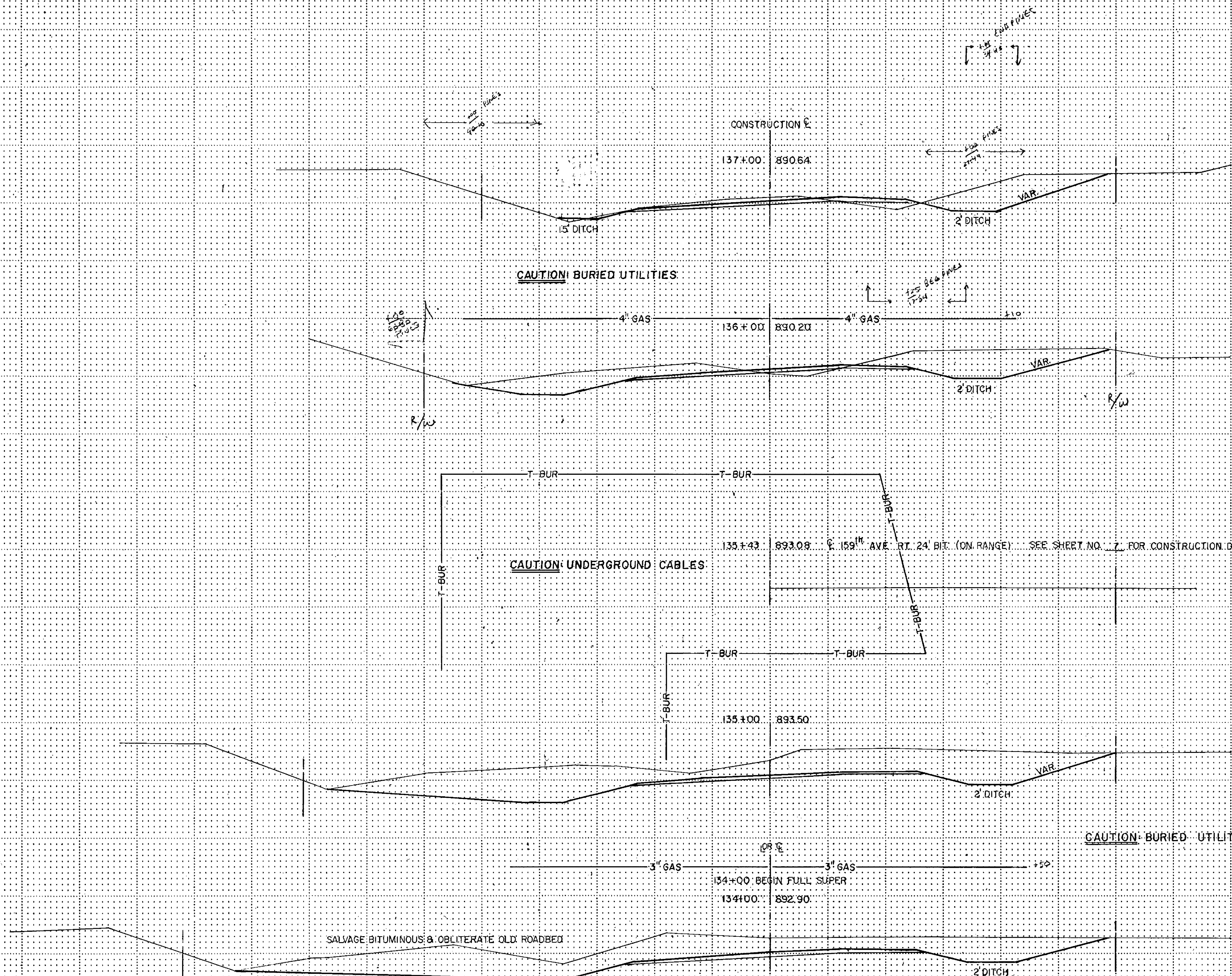
TELETYPE DOT CROSS SECTION 1011 7/78



1983	0	139.75
1689	100	150.75
1233	124	146.75
1076	207	133.75
332	182	54.75
1015	741	166.75

REPLACE 24" X 52" C.M.P. CULVERT, REMOVE CULVERT
 RGT: 24" X 66" R.C.P. CULVERT @ 2' APRONS' CL 4'
 34' LT. 32' RT.

TELEPHONE POST CROSS SECTION - 5/17/74



Station	Elevation	Notes
137+00	890.64	CONSTRUCTION E
136+00	890.20	4" GAS
135+43	893.08	159" AVE. RT. 24' BIT. (ON RANGE) SEE SHEET NO. 7 FOR CONSTRUCTION DETAILS
135+00	893.50	4" GAS
134+00	892.90	3" GAS
134+00		108 E
134+00		BEGIN FULL SUPER

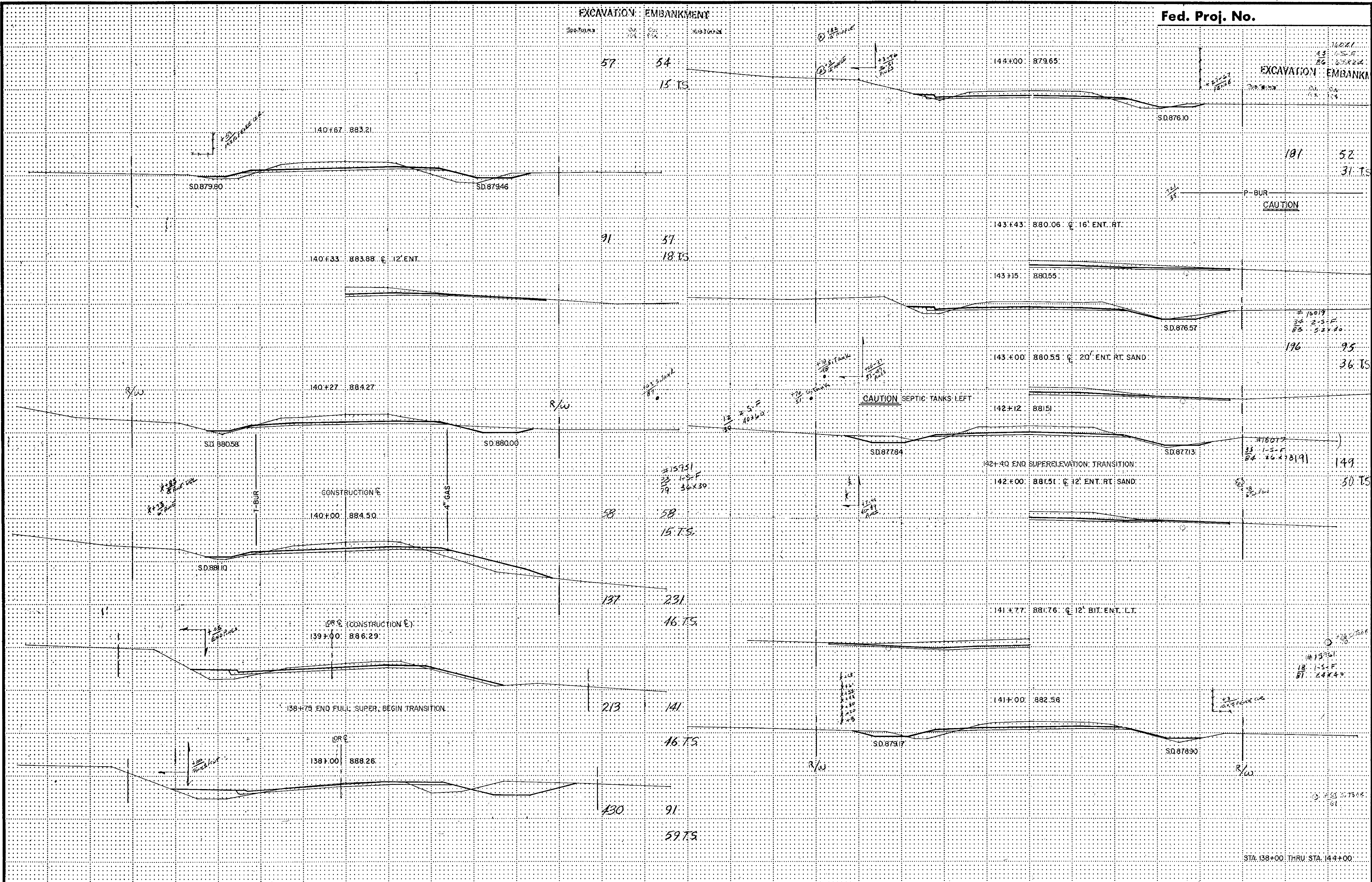
Station	Elevation	Notes
430	91	
778	24	
1524	11	
1652	0	2015
1983	0	

Item	Quantity
BALANCE # 3	
TOTAL COMMON EXC.	15231 CY
SALVAGE BIT. MIXTURE	841 CY
COMMON EXC. [PAY QUANT.]	14374 CY
REGULAR EMB.	8471 CY
TOPSOIL FILL	1925 CY
MUCK EMB.	1333 CY
MUCK EXC.	2094 CY

STA. 134+00. THRU. STA. 137+00.

TALLEY POST CROSS SECTION - 1/11/74

EXCAVATION: EMBANKMENT:
See Table 30 31
154 154



EXCAVATION	EMBANKMENT
162.1	162.1
13	15.5
26	27.2
24	24
55	54

181	52
	31 TS

196	95
	36 TS

149	50 TS
-----	-------

18	24
57	40

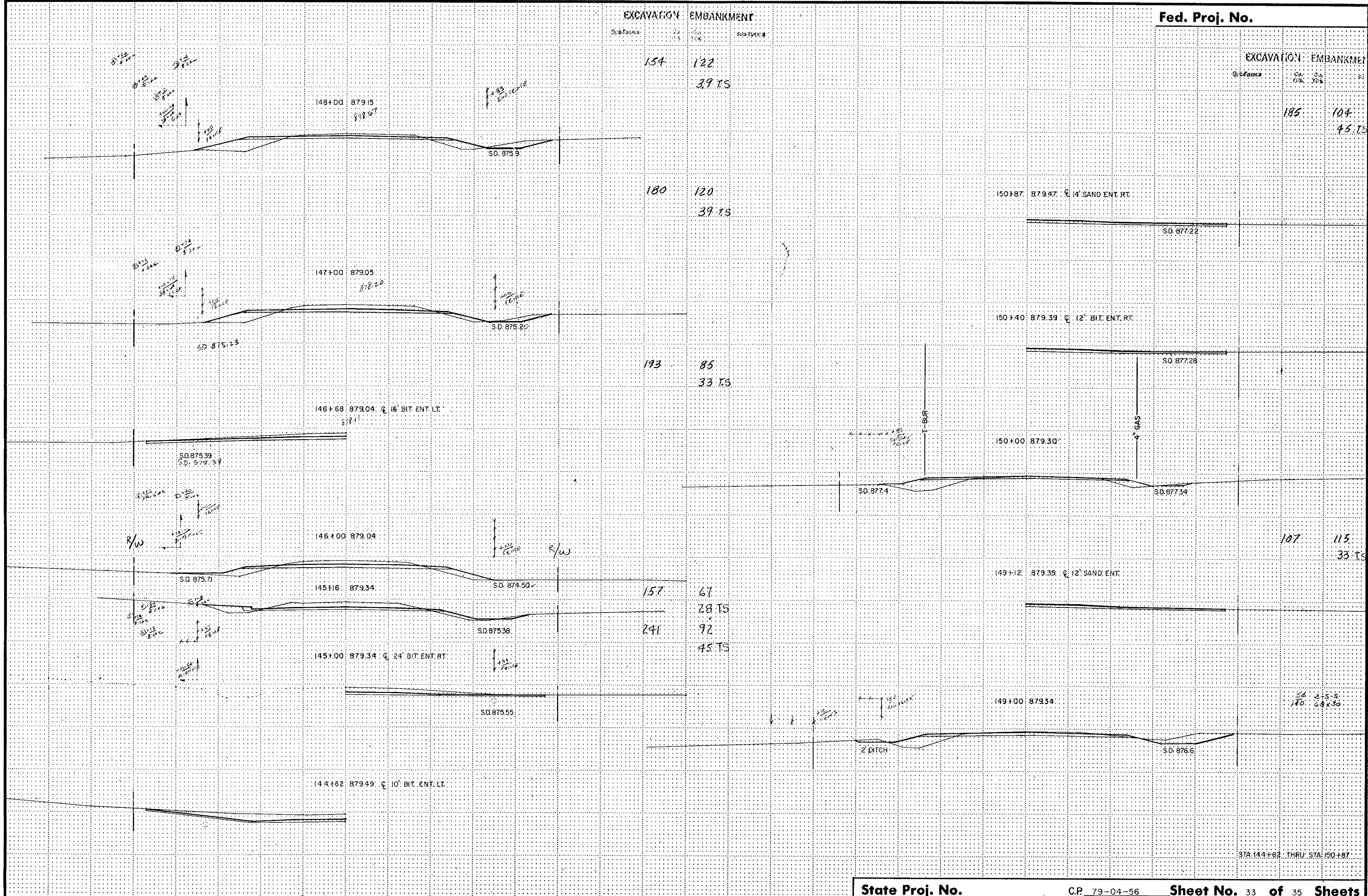
18	24
57	40

STA. 138+00 THRU STA. 144+00

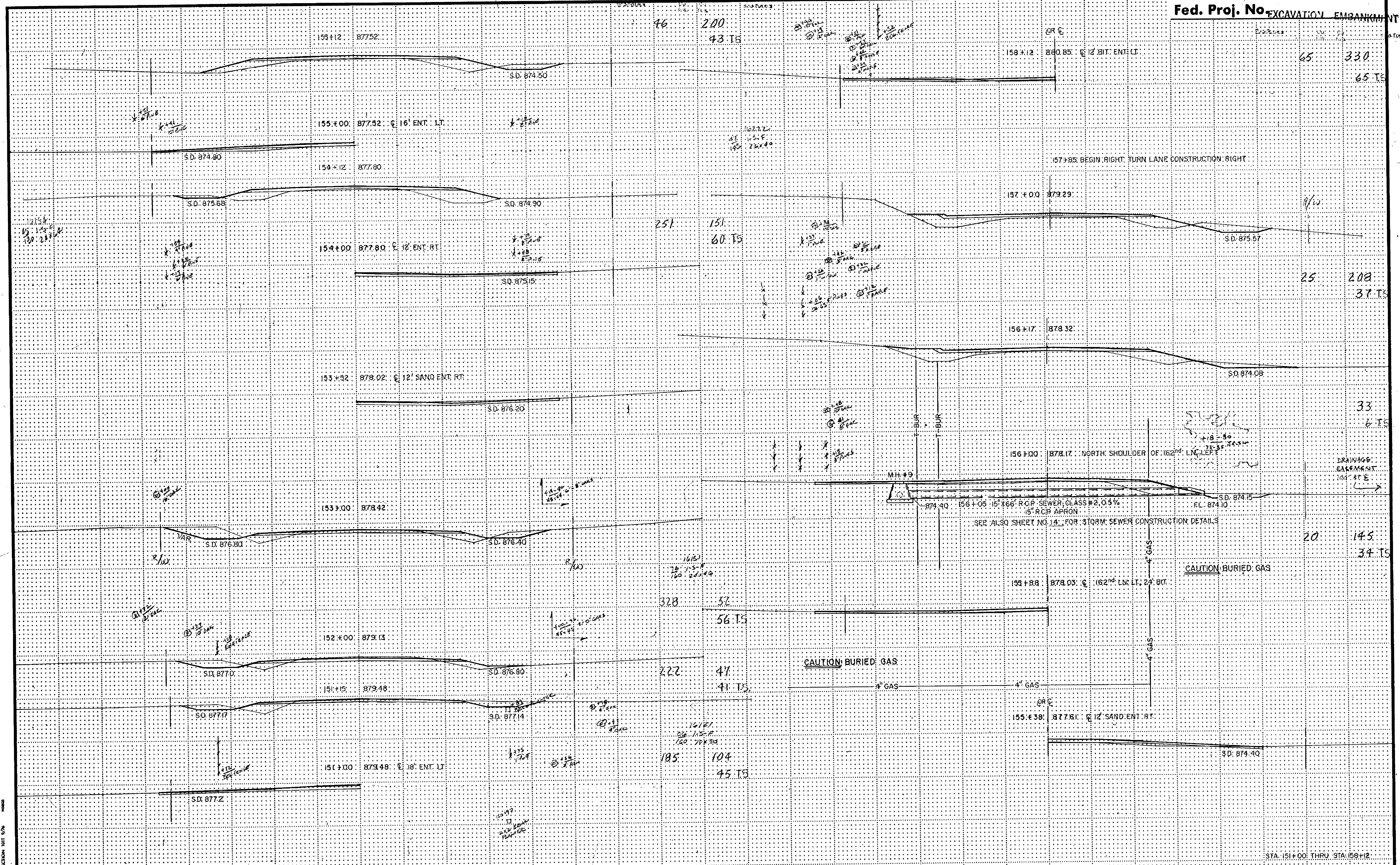
TELETYPE POST CROSS SECTION UNIT 1/4"

EXCAVATION	EMBANKMENT
Sta. Totals	Sta. Totals
154	122
	39.75
180	120
	39.75
193	85
	33.75
157	67
	28.75
241	92
	45.75

EXCAVATION	EMBANKMENT
Sta. Totals	Sta. Totals
185	104
	45.75



TELETYPE POST CROSS SECTION UNIT 9/76

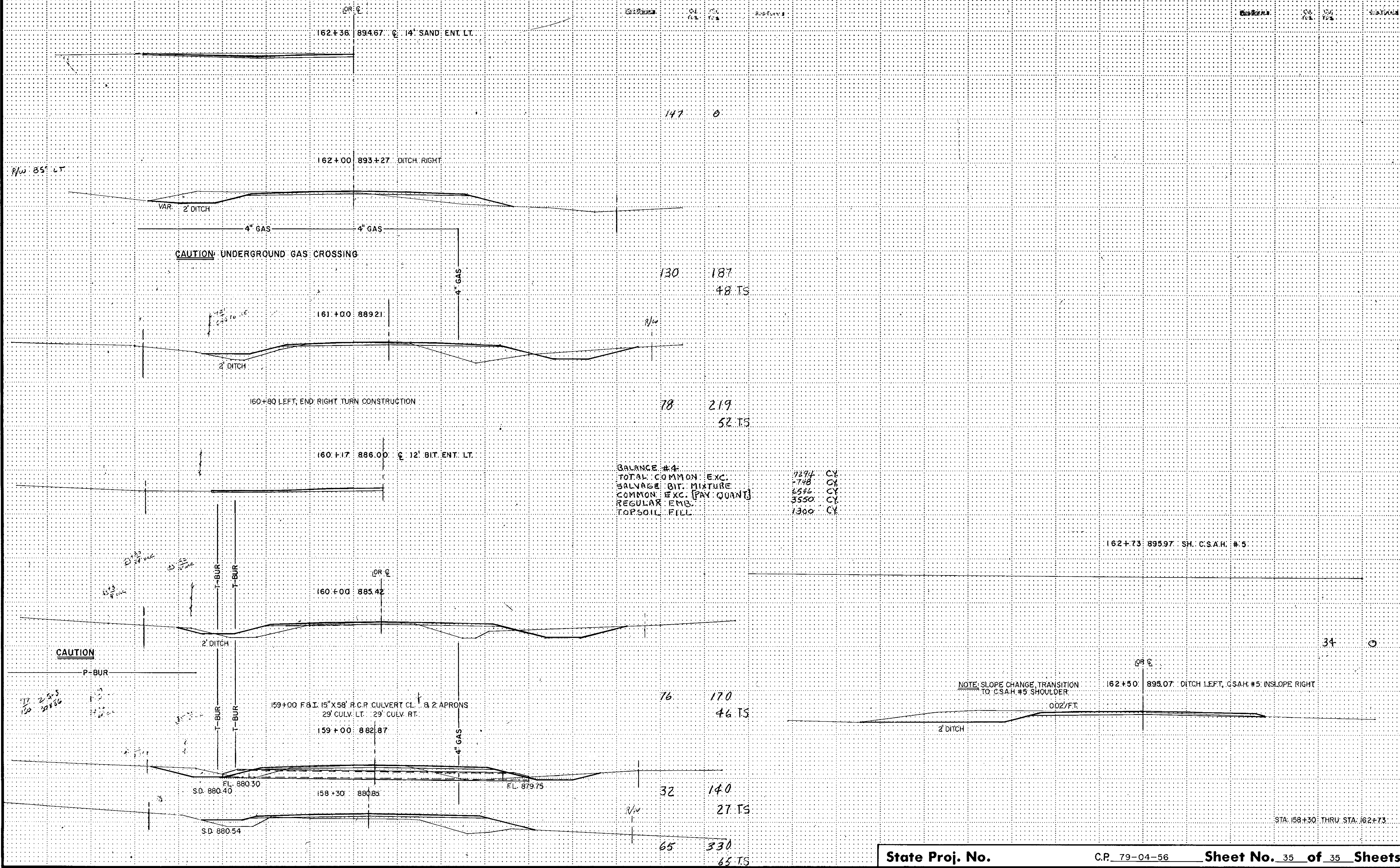


VERTICAL POST CROSS SECTION 1/4\"/>

STA. 151+00 THRU STA. 159+12

EXCAVATION EMBANKMENT

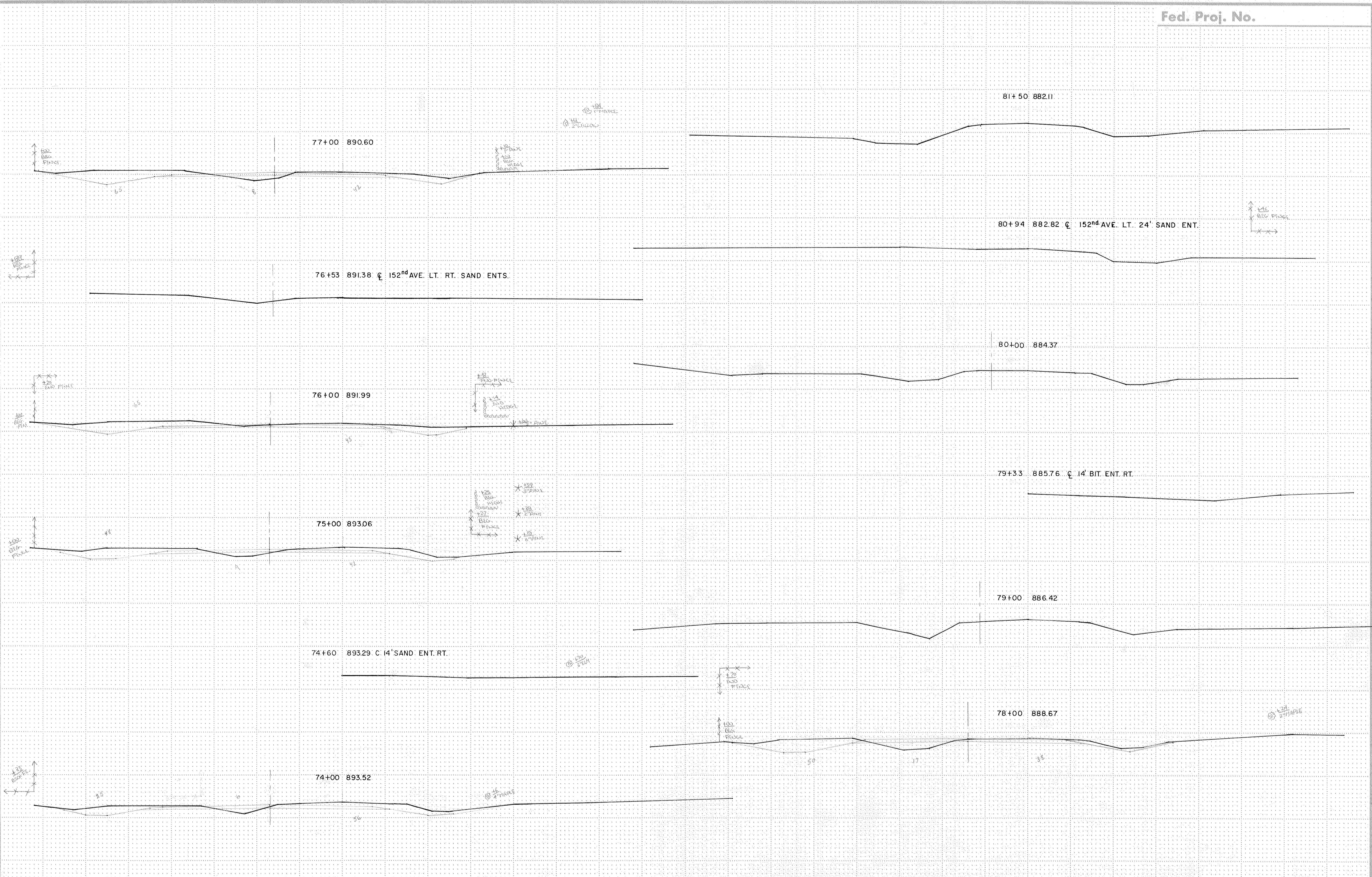
EXCAVATION EMBANKMENT



BALANCE #4

TOTAL COMMON EXC.	7294	CY
SALVAGE BIT. MIXTURE	-748	CY
COMMON EXC. (PAY QUANT)	6546	CY
REGULAR EMB.	3550	CY
TOPSOIL FILL	1300	CY

TELEPHONE POST CROSS SECTION 1011 9 76



TELEPHONE POST CROSS SECTION 10/17/76

91+58 887.99 C 154th LN. 24' SAND ENT. LT.

94+88 892.20 C 14' SAND ENT. RT.

91+00 887.16

94+52 891.80 C 14' SAND ENT. RT.

90+00 886.04

94+00 891.15

89+79 885.94 C 14' BIT. ENT. LT.

93+00 889.91

89+00 885.72

92+83 889.77 C 14' BIT. ENT. RT.

88+76 885.64 C 12' SAND ENT. LT.

92+00 888.63

Handwritten notes:
154th LN
24' SAND ENT. LT
154th LN
24' SAND ENT. LT
154th LN
24' SAND ENT. LT

Handwritten notes:
154th LN
24' SAND ENT. LT
154th LN
24' SAND ENT. LT
154th LN
24' SAND ENT. LT

Handwritten notes:
154th LN
24' SAND ENT. LT
154th LN
24' SAND ENT. LT
154th LN
24' SAND ENT. LT

Handwritten notes:
154th LN
24' SAND ENT. LT

Handwritten notes:
154th LN
24' SAND ENT. LT

Handwritten notes:
154th LN
24' SAND ENT. LT

TELEPHONE POST CROSS SECTION BIT 9/76

107+00 875.77

106+00 876.17

105+00 875.86

104+00 874.79 C 12' BIT. ENT. RT.

103+00 874.79

102+22 875.29 C 156 th. AVE.

111+00 874.63

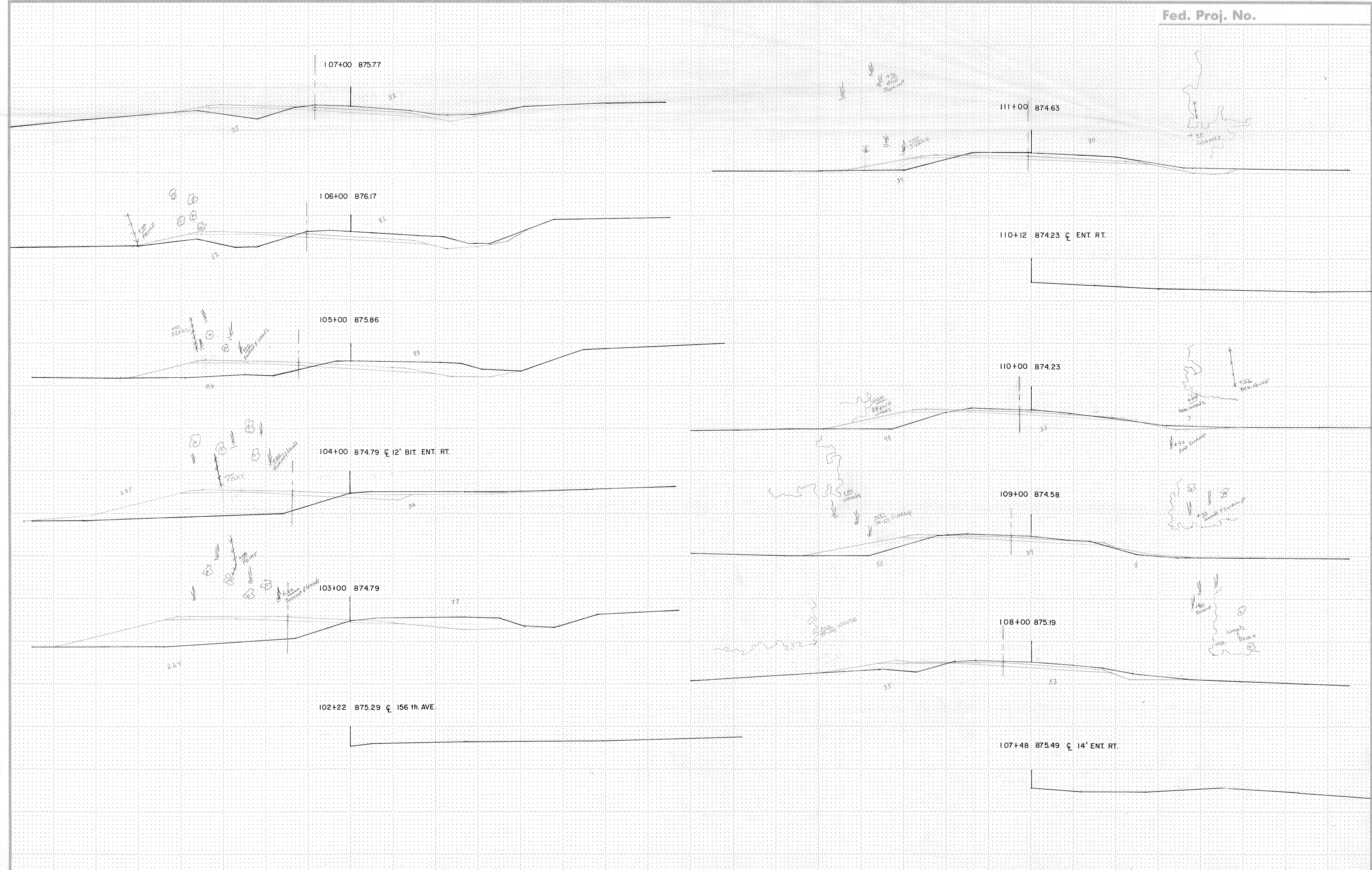
110+12 874.23 C ENT. RT.

110+00 874.23

109+00 874.58

108+00 875.19

107+48 875.49 C 14' ENT. RT.



TELETYPE POST CROSS SECTION BIT 7/74 158485

124+00 875.61

129+00 875.43 Q JASPER ST. LT. BIT.

123+00 875.33

128+00 875.99

122+00 874.79

127+79 875.73 Q 159th LN.

121+00 874.53

127+00 875.73

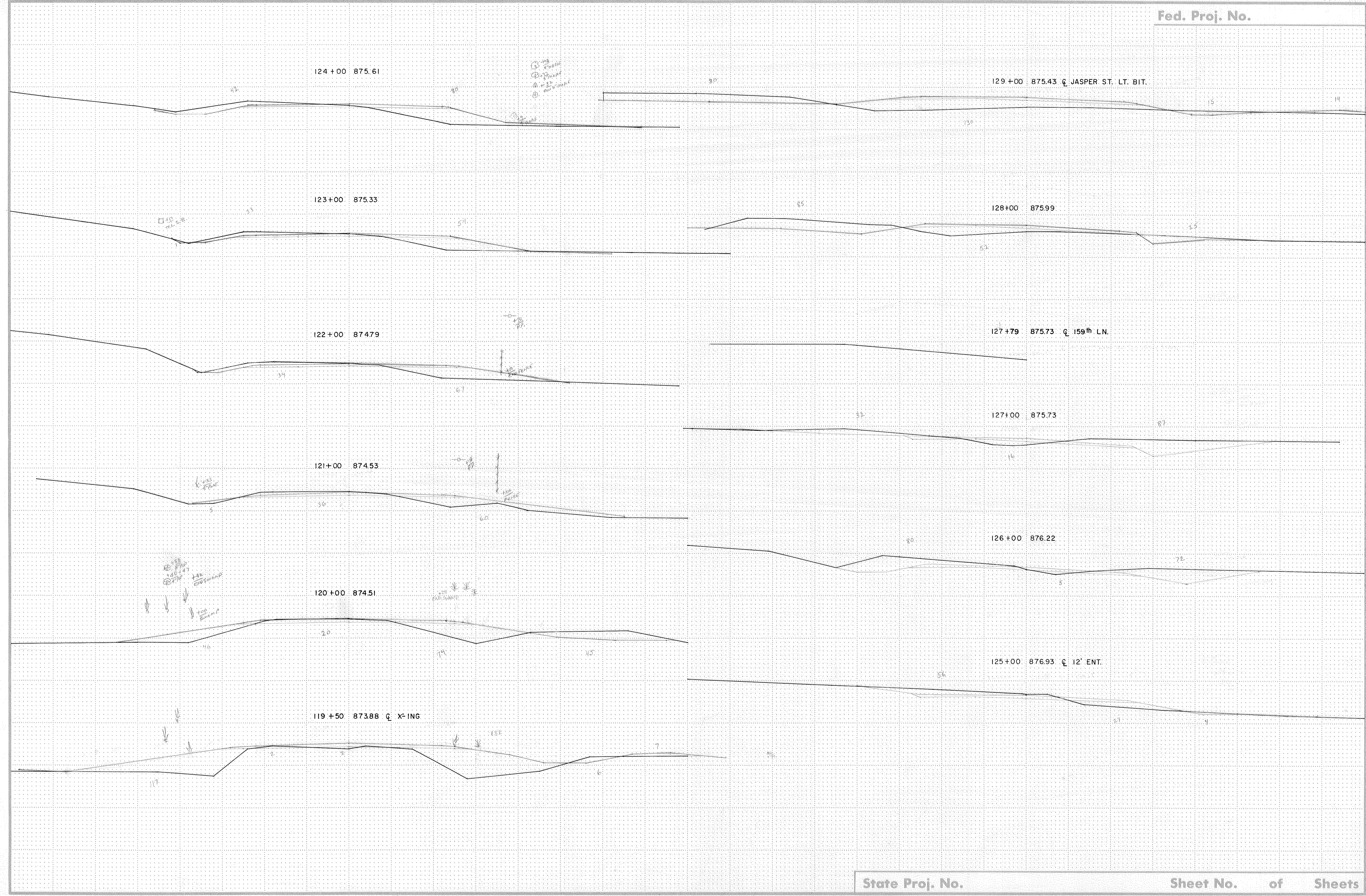
120+00 874.51

126+00 876.22

119+50 873.88 Q X-ING

125+00 876.93 Q 12' ENT.

TELEPHONE POST CROSS SECTION 1014 7/76



133+00 886.40

49.7

132+00 880.10

7.1

131+19 875.50 C 158th LN. RT.

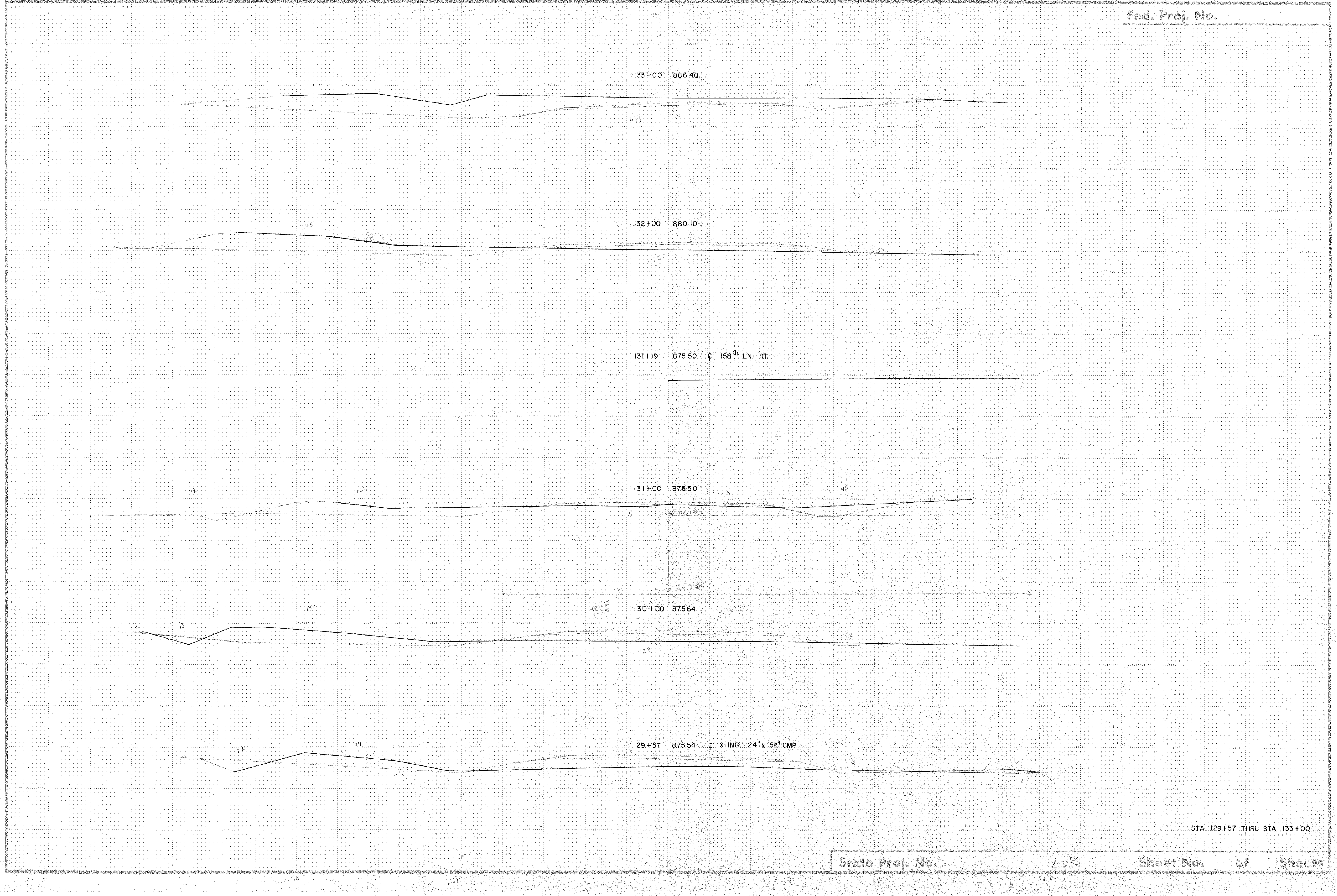
131+00 878.50

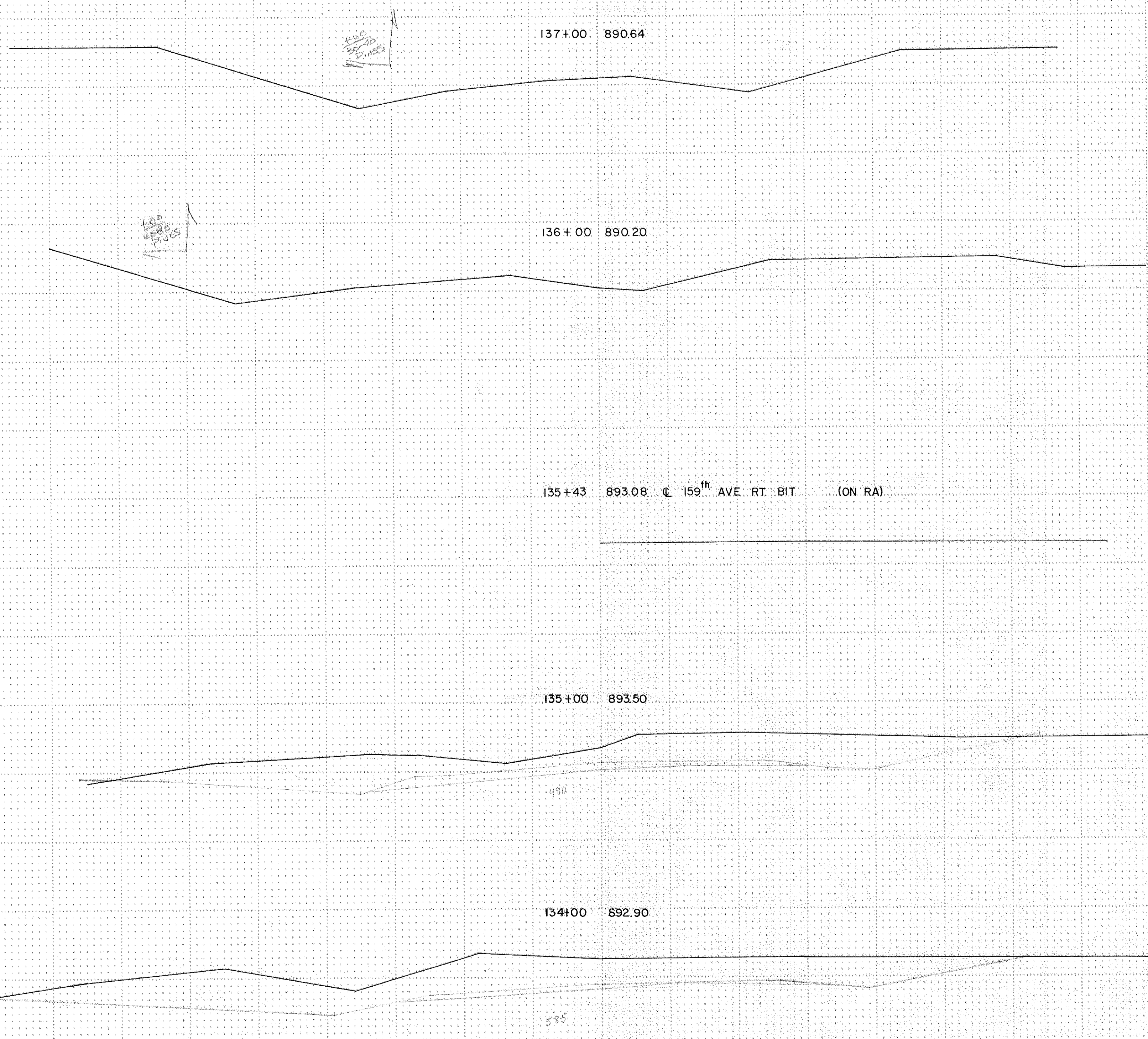
130+00 875.64

129+57 875.54 C X-ING 24" x 52" CMP

STA. 129+57 THRU STA. 133+00

REFLECTOR POST CROSS SECTION DATE 8/75





STA. 134+00 THRU STA. 137+00

133+00 886.40

137+00 890.64

132+00 880.10

136+00 890.20

131+19 878.50

135+43 893.08 C 159 AVE RT. BIT. (ON RA.)

131+00 878.50

135+00 893.50

130+00 875.64

134+00 892.90

129+57 875.54 C X-ING 24" X 52' CMP

79-04-56

16

RELATIVE POST CROSS SECTION BIT 7/76

