

STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE & BITUMINOUS

County State Aid Highway No. 78

Between 1,000' SOUTH OF COUNTY ROAD #116; And CSAH #18

From A POINT 1,000' SOUTH OF W. 1/4 COR. SEC. 35, T32, R24 To A POINT 50' WLY. OF W. 1/4 COR. SEC. 26, T32, R24  
Give proper reference to Sections, Township and Range

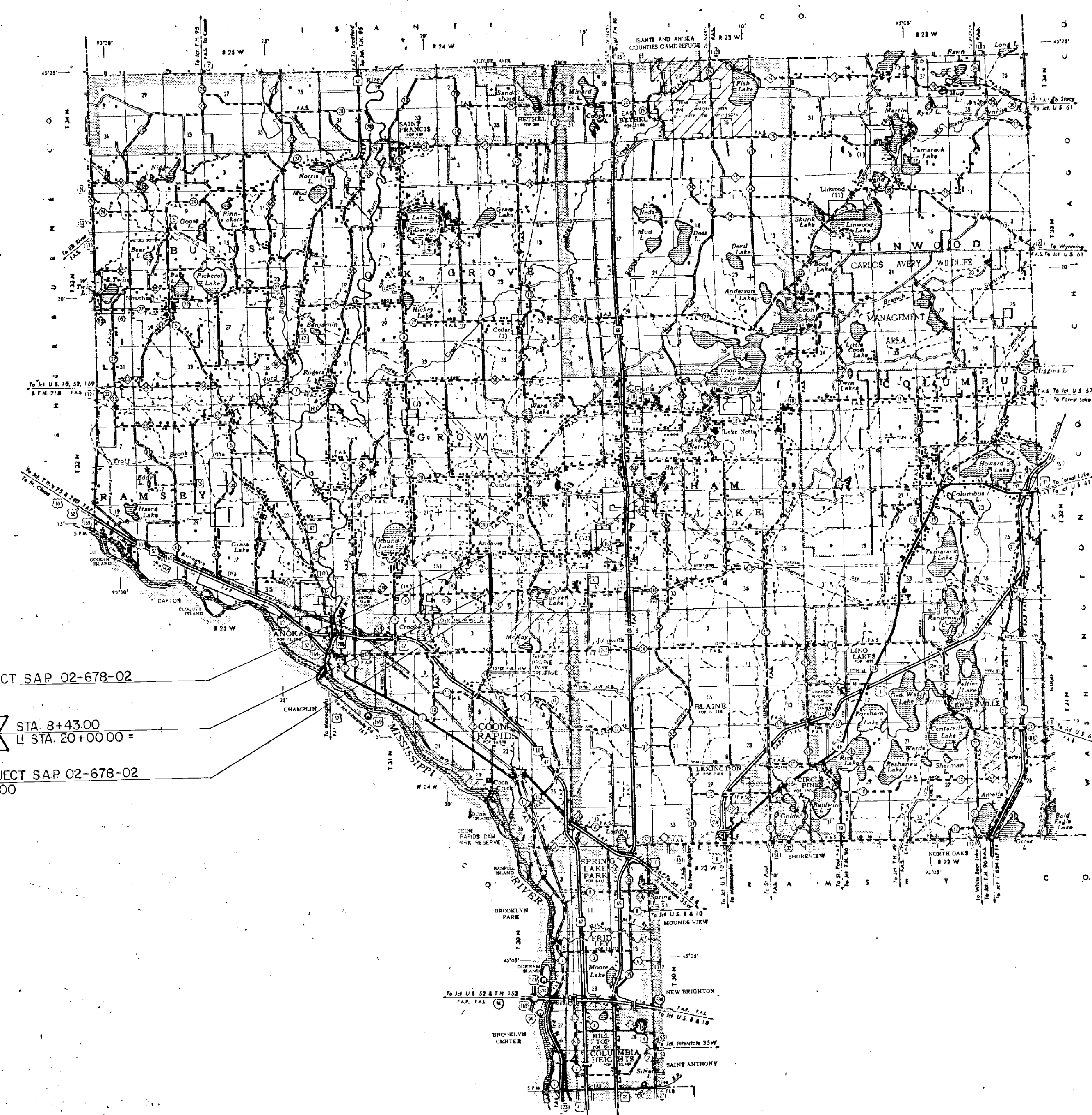
GROSS LENGTH 628700 FEET 11.9 MILES  
BRIDGES LENGTH 6678 FEET 0.01 MILES  
EXCEPTIONS LENGTH 0 FEET 0 MILES  
NET LENGTH 622022 FEET 11.8 MILES

INDEX OF SHEETS

- Sheet No. 1. Title Sheet & Layout Map
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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
- CONTRAIL OF ADJOINING LINE
- PROPERTY LINE (Zone Line)
- VACATED PLATTS PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RETAINING 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
- DROP PILE
- GUARD RAIL
- BARBED WIRE FENCE
- WOODEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SHOW FENCE
- STONE WALL OR FENCE
- HERD
- WATER PIPE
- SEWER PIPE
- DRAIN TILE
- SPRINGS
- MARSH
- TIMBER
- ORCHARD
- BRUSH
- NURSERIES
- 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)
- FRAME
- CONCRETE
- STONE
- TILE
- BRICK
- ST. STUCCO
- ROOF PIPE OR JOB
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- SAND PIT
- BARROW PIT
- ROCK QUARRY
- MEANDER CORNER



END PROJECT SAP 02-678-02  
STA. 61+30

STA. 8+43.00  
LI STA. 20+00.00 =

BEGIN PROJECT SAP 02-678-02  
LI STA. 10+00

SCALE

INDEX MAP 2 Miles  
PLAN & PROFILE VERT. 5'  
HORIZ. 100'  
CROSS-SECTIONS 10'

DESIGN DESIGNATION

ADT (CURRENT YEAR) 0 (NEW LOCATION)  
ADT (FUTURE YEAR) 4000 (20 YR. PROJ.)  
T (HEAVY COMMERCIAL) 150-300  
9 Ton Design Soil Factor A=3.50 %  
Design Speed 50 MPH  
Design Speed not achieved at:  
STA. TO STA. MPH  
STA. TO STA. 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. ...*  
COUNTY ENGINEER DATE 3/5/1982

ANOKA COUNTY REG. NO. 6549

RECOMMENDED FOR APPROVAL *C.E. ...* 3/24, 1982  
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL *Robert D. ...* 4/12, 1982

APPROVED *H.H. ...* 19 82  
STATE AID ENGINEER

Minn. Proj. No. County Proj. No.  
State Proj. No. S.A.P. 02-678-02

ANOKA County, Minnesota. Plan No. Sheet 1 of 17 Sheets

FORM MHD 21165 10-58

STATEMENT OF ESTIMATED QUANTITIES

SAP 02-678-02

ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES
2101.501	CLEARING	ACRE	6.3	
2101.502	CLEARING	TREE	5	
2101.503	GRUBBING	ACRE	6.3	
2101.507	GRUBBING	TREE	10	
2104.501	REMOVE CULVERT PIPE	LINEAR FOOT	30	
2104.521	SALVAGE CULVERT PIPE	LINEAR FOOT	40	
2104.521	SALVAGE FENCE	LINEAR FOOT	3,314	
0557.604	INSTALL FENCE	LINEAR FOOT	3,004	
2105.501	COMMON EXCAVATION	CUBIC YARD	40940(P)	
2105.505	MUCK EXCAVATION	CUBIC YARD	10,494	
2105.523	COMMON BORROW (E.V.)	CUBIC YARD	25,246	
2105.531	SALVAGE BITUMINOUS MIXTURE (E.V.)	CUBIC YARD	306(P)	
2105.533	SALVAGE AGGREGATE (E.V.)	CUBIC YARD	617(P)	
2130.501	WATER	M-GAL.	140	
2211.503	AGGREGATE BASE PLACED, CLASS 5	CUBIC YARD	5,540	
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	276	
2331.510	BINDER COURSE MIXTURE	TON	1,500	
2331.514	BASE COURSE MIXTURE	TON	2,000	
2331.516	SHOULDER MIXTURE	TON	1,870	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	84	
2341.508	WEARING COURSE MIXTURE	TON	1,400	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	1,850	
2501.511	15" C.M. PIPE CULVERT	LINEAR FOOT	76	
2501.511	24" R.C. PIPE CULVERT CLASS-2	LINEAR FOOT	80	
2501.511	24" R.C. PIPE CULVERT CLASS-4	LINEAR FOOT	132	
2501.515	15" C.M. PIPE APRONS	EACH	3	
2501.515	24" R.C. PIPE APRONS	EACH	6	
2501.521	28" SPAN C.M. PIPE-ARCH CULVERT	LINEAR FOOT	44	
2501.525	28" SPAN C.M. PIPE-ARCH APRONS	EACH	2	
2501.571	INSTALL 15" C.M. PIPE CULVERT	LINEAR FOOT	36	
2501.573	INSTALL 15" C.M. PIPE APRONS	EACH	2	
2511.515	GROUND RIPRAP	CUBIC YARD	2.3(P)	
2554.501	TRAFFIC BARRIER, DESIGN 3307 B	LINEAR FOOT	330	
0554.607	TWISTED END TREATMENT	EACH	4	
2575.501	ROADSIDE SEEDING	ACRE	10.2(P)	
2575.502	SEED MIXTURE NO.3	POUND	408	
2575.505	SODDING	SQUARE YARD	4,054	
2575.511	MULCH MATERIAL, TYPE 1	TON	20.4	
2575.519	DISC ANCHORING	ACRE	10.2(P)	
2575.531	OFFICIAL FERTILIZER, ANALYSIS 10-10-10	TON	2.6	
0575.602	HAY OR STRAW BALES	EACH	28	

- ① For dust control.
- ② Includes 28 Cu. Yds. for beams, 30 Cu. Yds for entrances, and 174 Cu. Yds for traffic barrier construction.
- ③ Includes 15 ton for beams, 2 ton for bituminous flumes, 40 ton for entrances and 20 ton for traffic barrier construction.
- ④ To be used for erosion control at the direction of the engineer.

SALVAGE & INSTALL FENCE

STATION	LOC.	SALVAGE	INSTALL	REMARKS
19+11 - 21+85	RT	274	274	LINE FENCE
21+85	RT	50	40	
21+85 - 35+00	RT	1315	1315	
35+00	RT	30	15	
35+00 - 37+51	RT	251	251	LINE FENCE
37+51	RT	30	15	
37+51 - 43+75	RT	624	624	
56+30	LF & R	130	0	
56+30 - 61+00	RT	470	470	CENTERLINE CROSSING
61+00	LF & R	140	0	

TOTAL = 3314 3004

SPECIAL DETAILS

Excavated muck material shall be used to construct inslopes adjacent to muck excavation area and as topsoil throughout the project.

Approximately 8,045 Cu. Yds. of excess muck material shall be utilized as topsoil. The material shall be spread to a uniform 3" minimum depth over the length of the project. This work shall be considered as incidental under item 2105.505 muck excavation.

Any remaining muck material may be spread uniformly on slopes or shall be disposed of by the contractor in other areas as approved by the Engineer.

Muck material may be stockpiled adjacent to excavation area during construction operation. But prior to completion of final grading operation, peat fields and swamps must be restored to original ground elevations and excess material removed by the contractor.

Salvage materials south of C. R. 116 from existing roadway. Salvage bituminous mixture quantities are computed as the volume of bituminous in its original position. The 12' driving lanes based on an average depth of 3.5" and 10' shoulder lanes based on an average depth of 2".

Salvage aggregate quantities are computed as the volume of aggregate in its original position. The 12' driving lanes based on an average depth of 3" and 10' shoulder lanes based on an average depth of 6".

Salvage bituminous mixture and salvage aggregate to be used south of C. R. 116 for maintenance of traffic on the new grade.

Landfill area located left of sta. 37+00 to 40+75. The back slopes shall be about 2' and unsuitable material (approx. 1593 Cu. Yds.) disposed of by contractor at a commercial landfill area. Contractor shall make all his own arrangements for disposal as incidental to common excavation. Subcut area shall be back-filled with a minimum of 2' of common borrow material and 3" of topsoil.

BASIS OF PLANNED QUANTITIES

- 2331 PLANT MIND SHOULDER COURSE  
BITUMINOUS MIXTURE 220 LBS./S.Y. PER 2" THICKNESS  
BITUMINOUS MATERIAL FOR MIXTURE 6.0% BY WT.
- 2331 PLANT MIND BASE COURSE  
BITUMINOUS MIXTURE 220 LBS./S.Y. PER 2" THICKNESS  
BITUMINOUS MATERIAL FOR MIXTURE 4.3% BY WT.
- 2331 PLANT BINDER COURSE  
BITUMINOUS MIXTURE 165 LBS./S.Y. PER 1" THICKNESS  
BITUMINOUS MATERIAL FOR MIXTURE 4.5% BY WT.
- 2341 PLANT MIND WEARING COURSE  
BITUMINOUS MIXTURE 165 LBS./S.Y. PER 1" 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%

FORM 21167 - 2-65

CLEARING AND GRUBBING

STATION (TO STATION)	LOC.	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
10+00 - 11+44	44-64 RT		0.20		0.20
12+14 - 10+50	0-20 LF				
12+14 - 19+50	0-65 RT		1.30		1.30
5+02 - 22+70	0-40 LF				
8+02 - 22+70	0-162 RT		3.10		3.40
15+25	44 LF	1		1	
17+85	45 LF			1	
10+10	30 LF			1	
21+44	15 RT			1	
22+50	20 RT	1		1	
22+90	40 RT	1		1	
22+50 - 20+30	54-75 RT		0.40		0.4
20+90	24 RT	1		1	
20+75	35 RT	1		1	
31+55 - 33+85	50-71 RT		0.20		0.20
35+11 - 38+57	0-28 LF				
35+11 - 38+57	0-34 RT		0.60		0.60
37+00	56 RT			1	
38+42	40 RT			1	
30+42 - 40+20	0-30 LF				
30+42 - 40+20	0-21 RT		0.20		0.20
TOTAL		5	6.30	10	6.30

MHD 21166 (9/73)

The following Standard Plates, approved by the Federal Highway Administration, shall apply on this project.

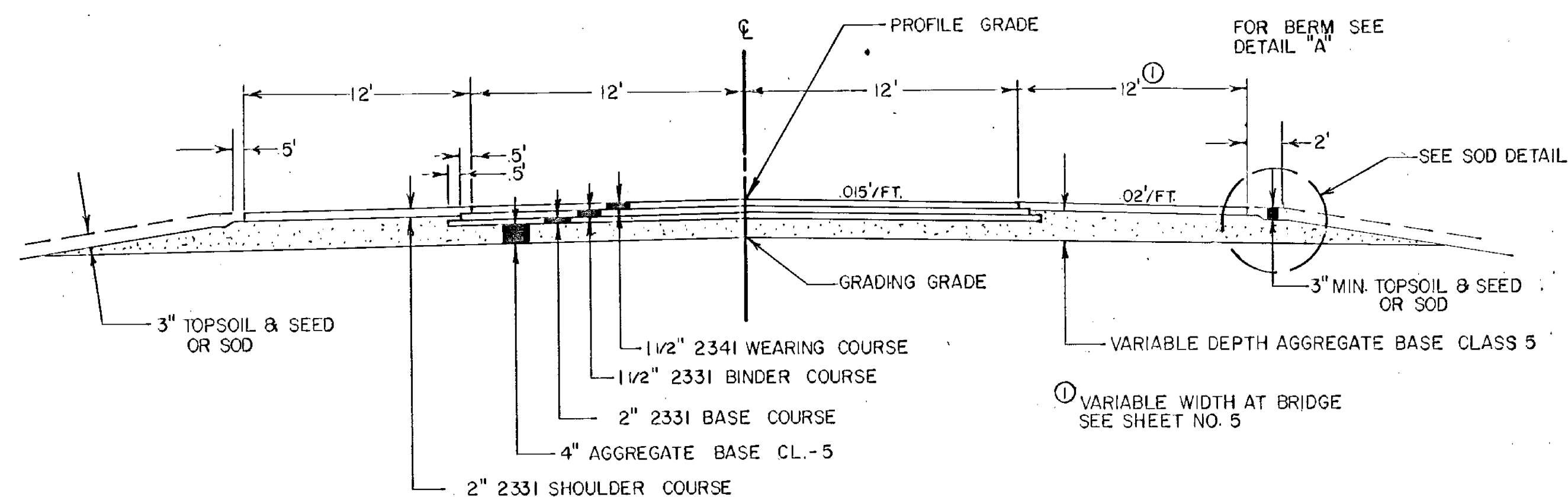
STANDARD PLATES

PLATE NO.	DESCRIPTION
0003A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000H	REINFORCED CONCRETE PIPE
3000C	GASKET JOINT FOR R.C. PIPE
3040F	CORRUGATED METAL PIPE CULVERT
3100F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3122I	METAL APRON FOR C.M. PIPE - ARCH CULVERT
3134A	RIPRAP AT CIP OUTLETS
8000G	STANDARD BARRICADES
8307L	STRUCTURAL PLATE BEAM GUARDRAIL
8310E	TWISTED END TREATMENT
9000B	APPROACHES AND ENTRANCES
9102C	SODDING AT PIPE CULVERT ENDS

TYPICAL SECTIONS

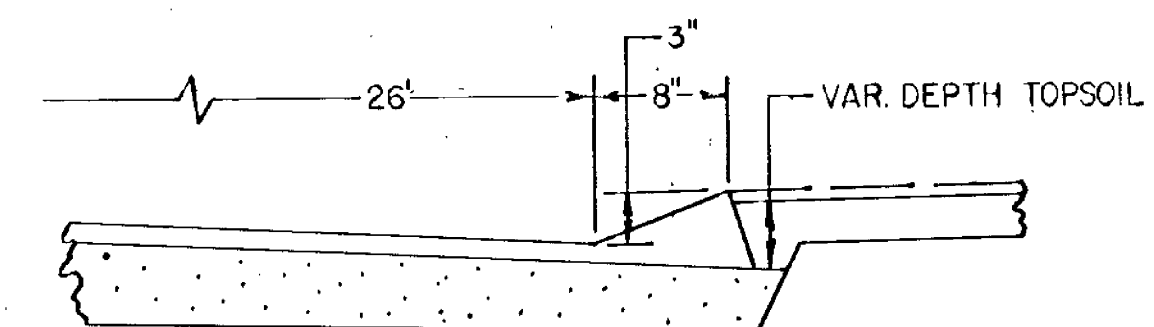
ALL DIMENSIONS NOMINAL

BASE & SURFACING

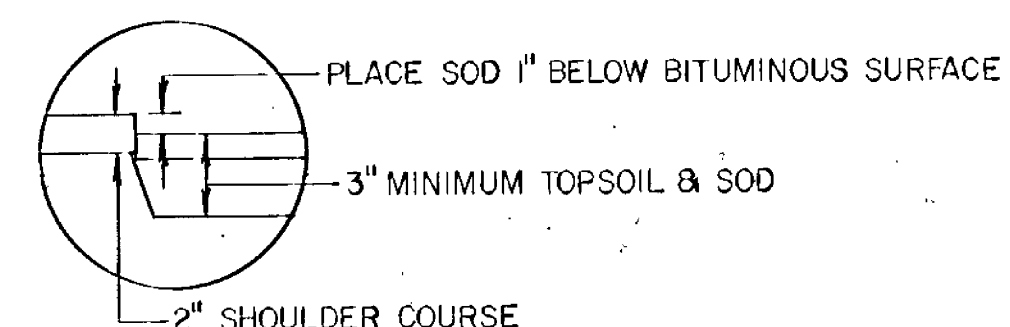


BITUMINOUS LIP

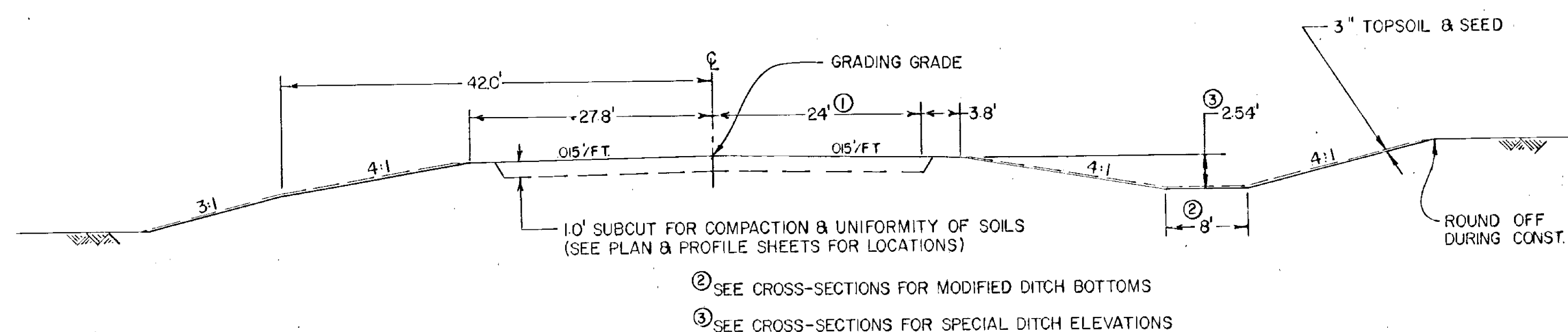
DETAIL "A"



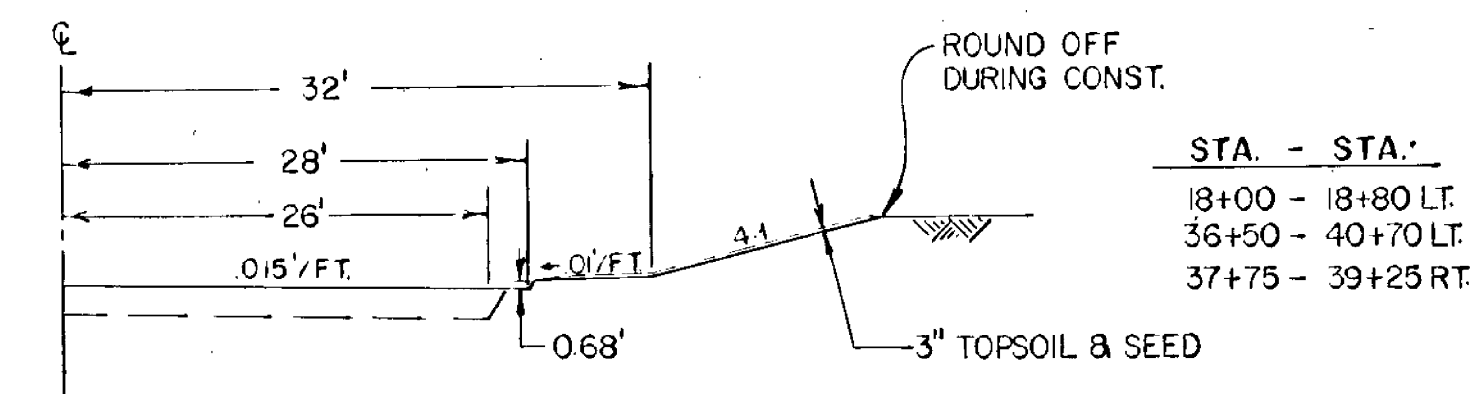
SOD DETAIL



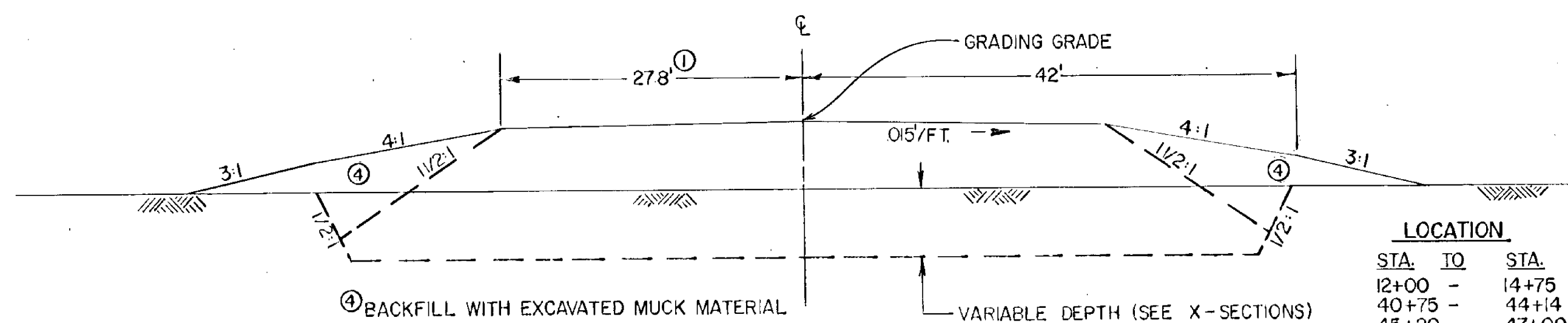
GRADING



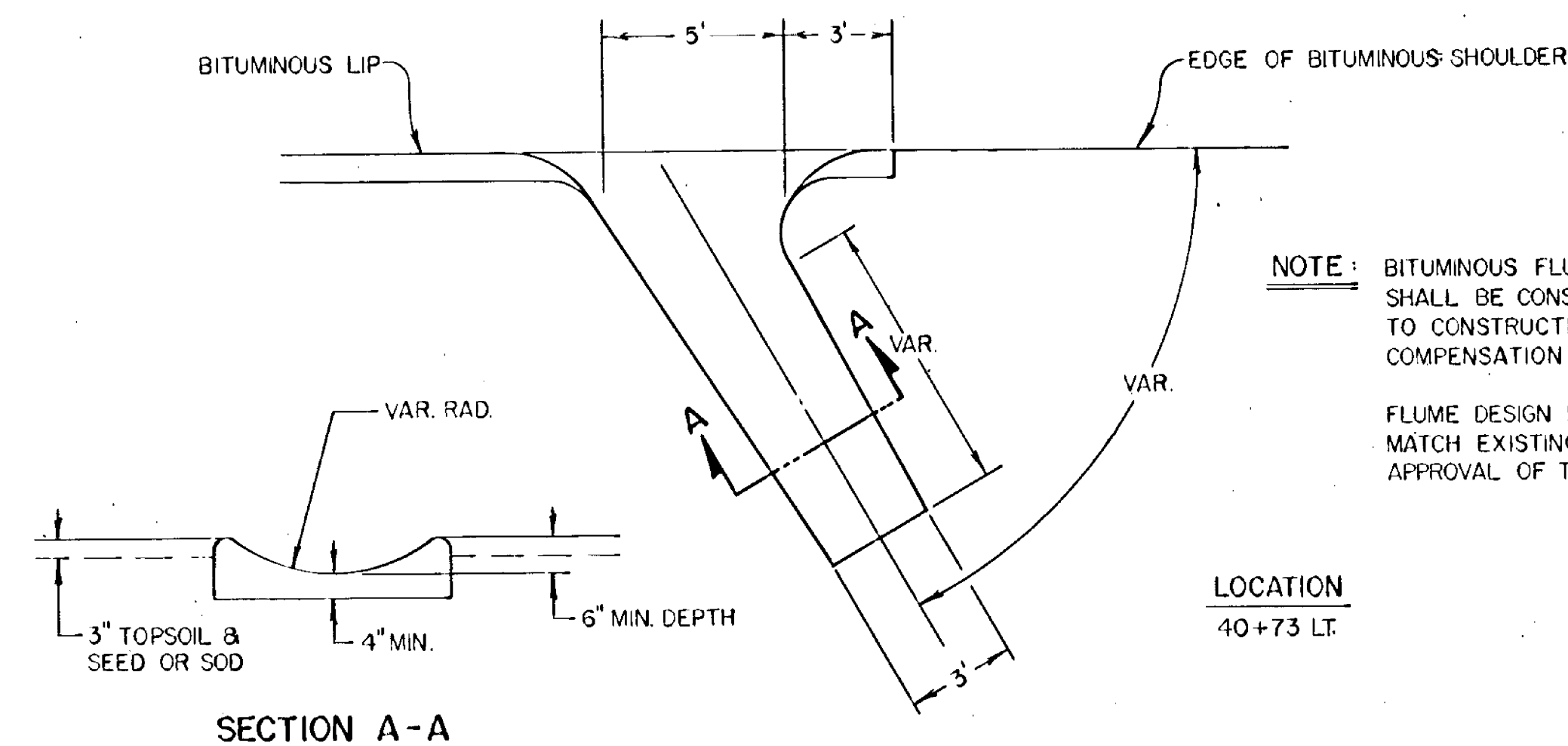
GRADING BERM



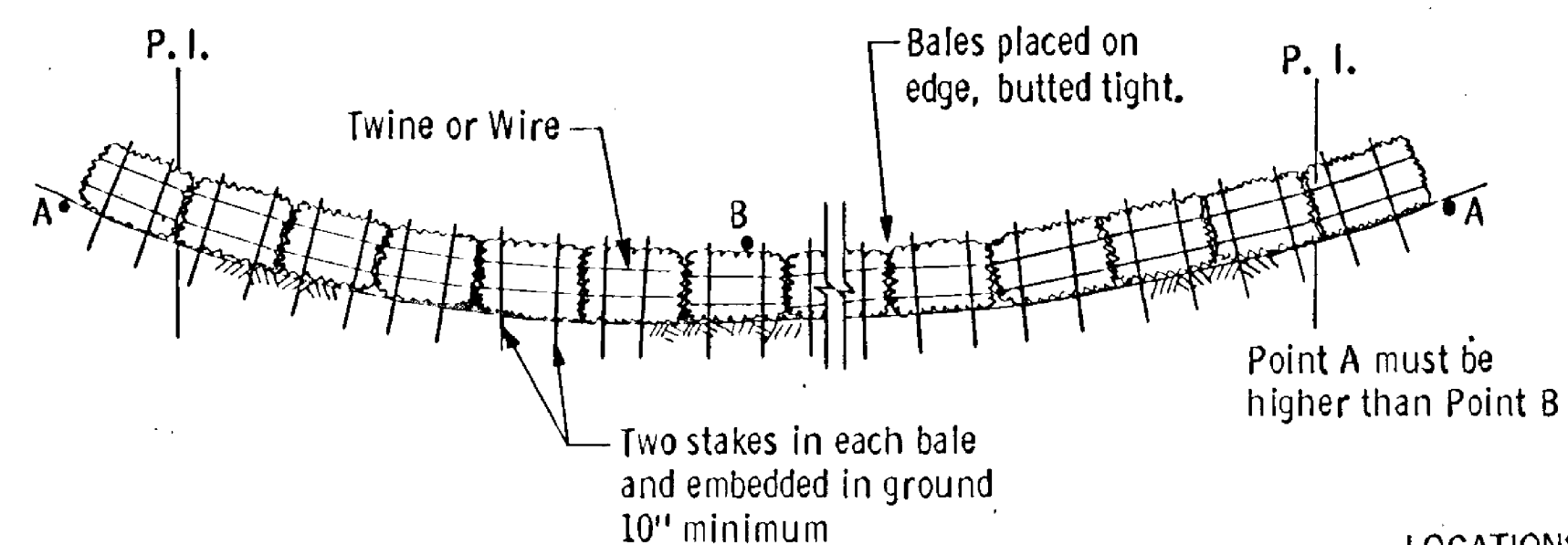
MUCK EXCAVATION



TYPICAL BITUMINOUS FLUME



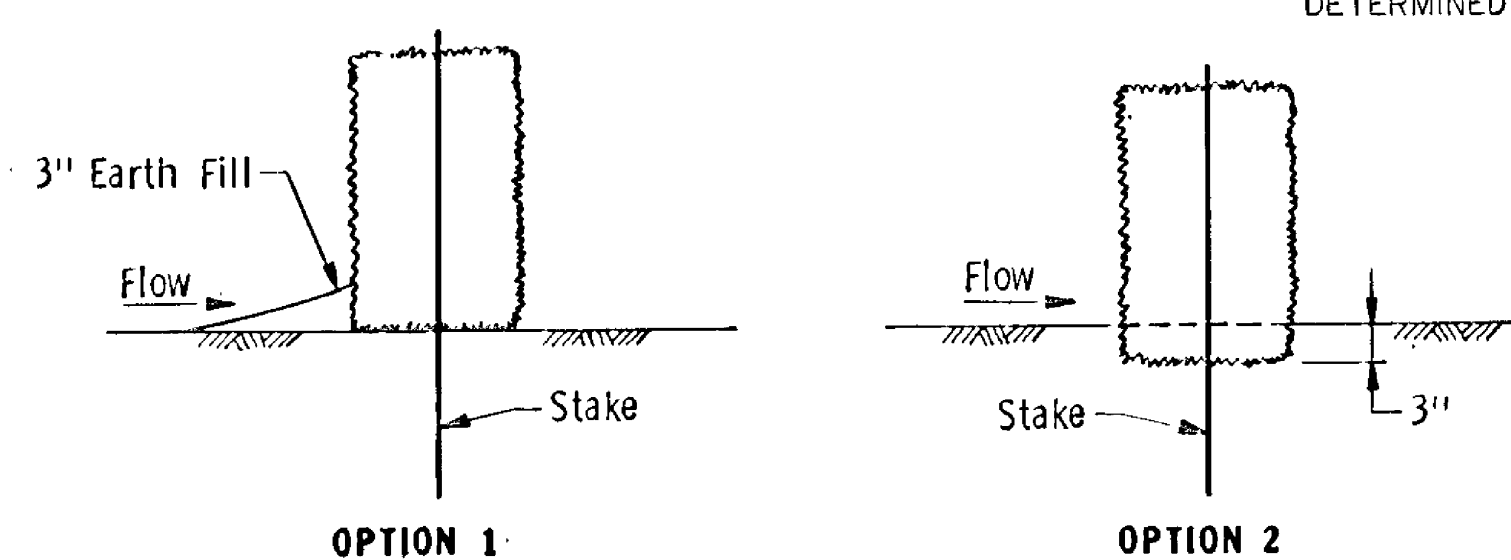




**BALE HAY OR STRAW DITCH CHECK**

LOCATIONS  
 40+00 RT.  
 40+80 LF.  
 46+50 RT.  
 47+00 LF.

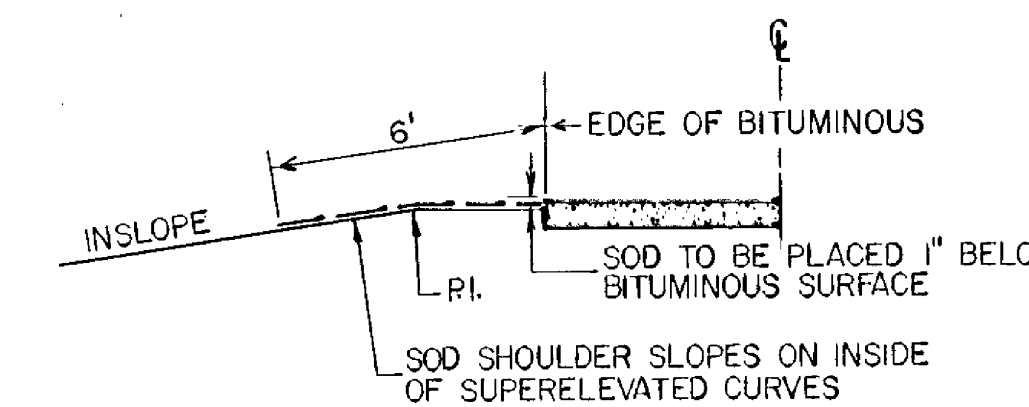
NOTE: LOCATIONS ARE APPROXIMATE ONLY, FINAL LOCATIONS TO BE DETERMINED IN THE FIELD.



**DITCH CHECK SECTIONS**

**SODDING**

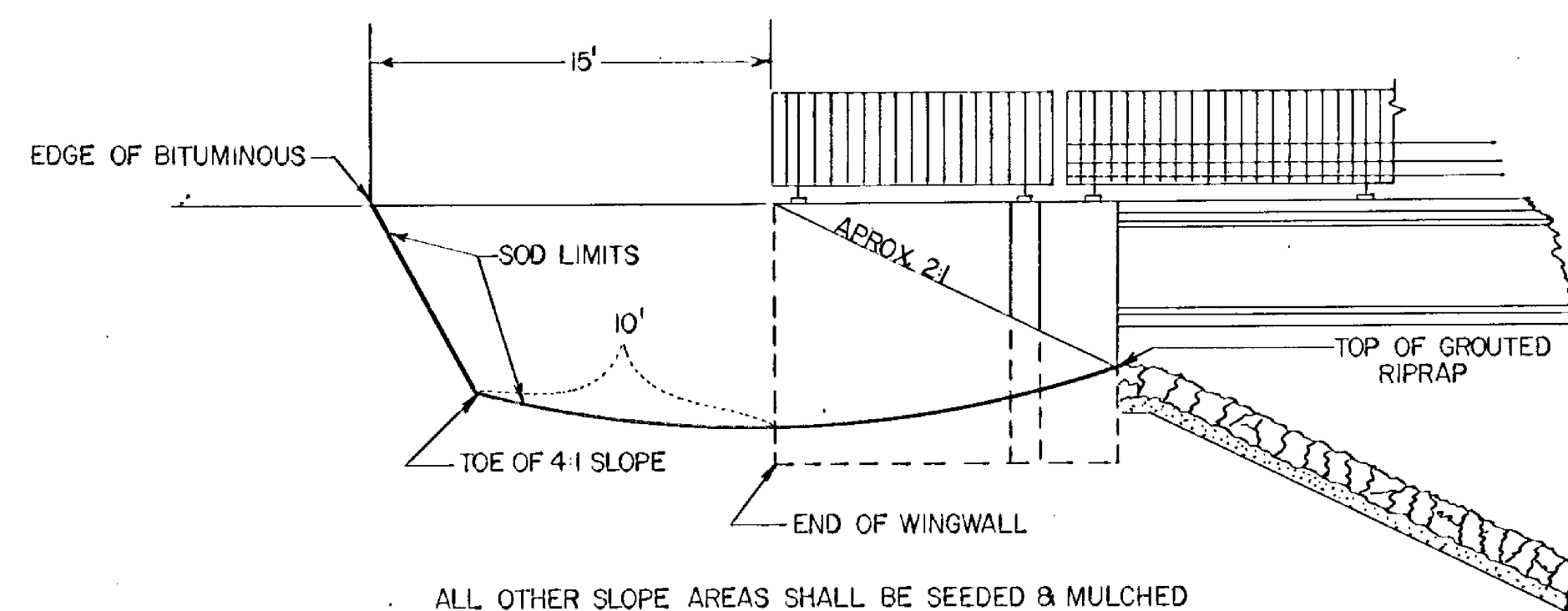
STATION	LOC.	S.Y.
17+00 - 18+00	33-60 LF	300
18+80 - 20+00	30-72 LF	500
33+50 - 35+00	27-50 LF	383
36+25 - 37+00	30-63 LF	275
38+25 - 40+75	33-65 RT	533
40+73 - 41+50	30-73 LF	368
BRIDGE APPROACHES		210
CULVERT ENDS		150
SUPER ELEVATED CURVES		1,275
	TOTAL	4,054



LOCATIONS  
STA. TO STA.  
 U 10+50 - U 15+20 RT.  
 U 15+20 - U 19+80 LT.  
 14+90 - 19+80 LT.  
 19+80 - 24+70 RT.

**SODDING INSLOPES OF SUPERELEVATED CURVES**

**SODDING AT BRIDGE APPROACHES**



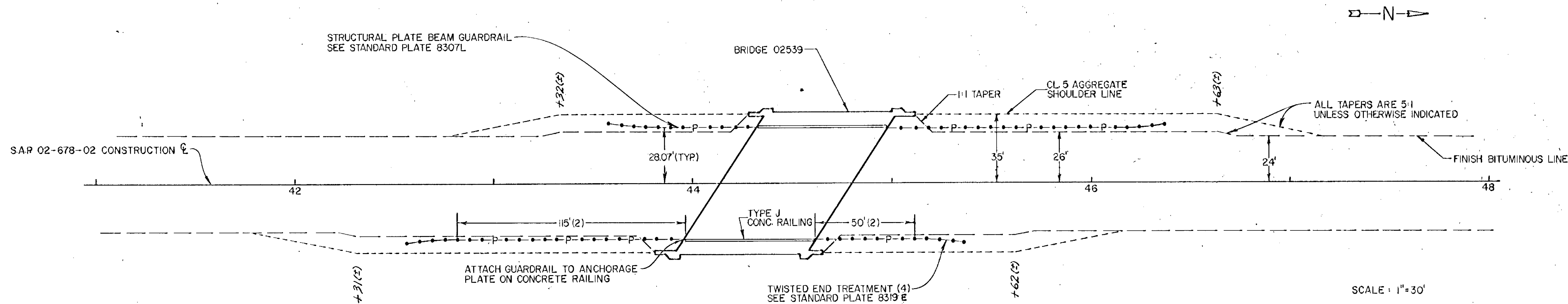
ALL OTHER SLOPE AREAS SHALL BE SEEDED & MULCHED

**DRAINAGE**

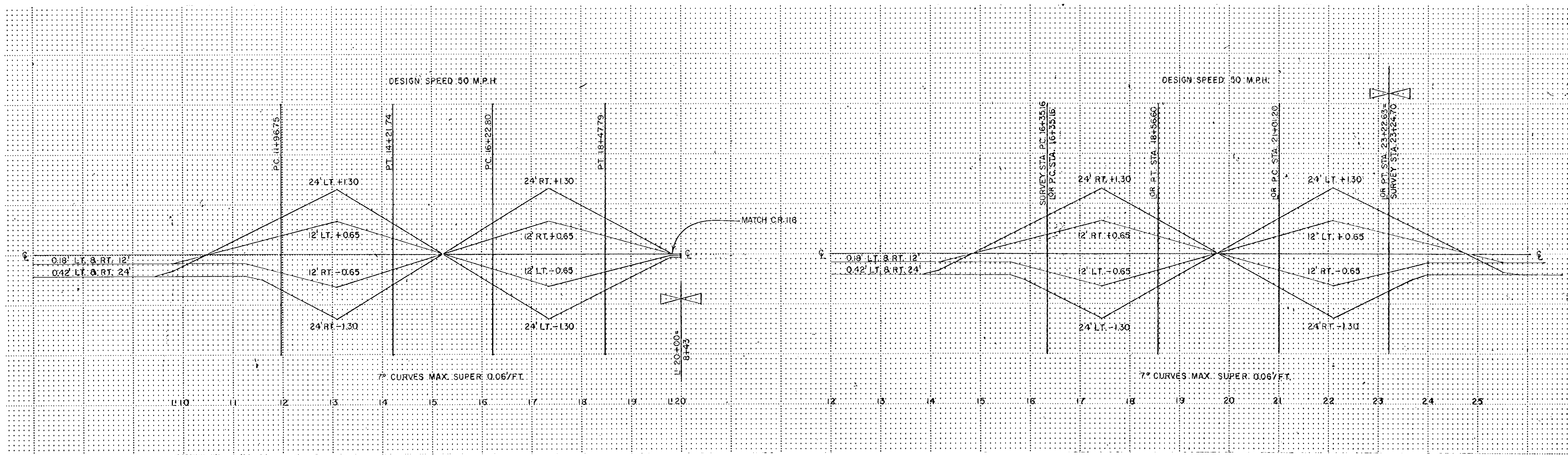
STATION	LOCATION	IN PLACE	REMARKS	PORTABLE CULVERTS														
				REMOVE CULV.	SALV. CULV.	EXC.	SOD-DING	RIP-RAP	15" C.M.P.	24" RCR CL 2	24" RCP CL 4	28" SPAN C.M.P.	INSTALL 15" C.M.P.					
				LIN. FT.		CU. YD.	SQ. YD.	CU. YD.	LIN. FT.	AR.	LIN. FT.	AR.	LIN. FT.	AR.	LIN. FT.	AR.	LIN. FT.	AR.
L <sup>1</sup> 11+56	LT						17			45	2							
L <sup>1</sup> 11+79	RT		No Culv. Req.															
L <sup>1</sup> 17+63	LT																	
13+50	CL		No Culv. Req.			29				80	2							
35+00	CL					29												
40+75	LF		SOD DITCH BLOCK					2.3	30	1								
58+00	RT					17										36	2	
59+50	CL					29						68	2					
61+20	RT	15"x30' C.M.P.			30													
61+42	RT	24"x40' C.M.P.	Q-X-Ing C.S.A.H. #16		40		29								44	2		
		TOTAL			30	40	150	2.3	76	3	80	2	132	4	44	2	36	2



**TRAFFIC BARRIER CONSTRUCTION**



**SUPERELEVATION CHARTS**



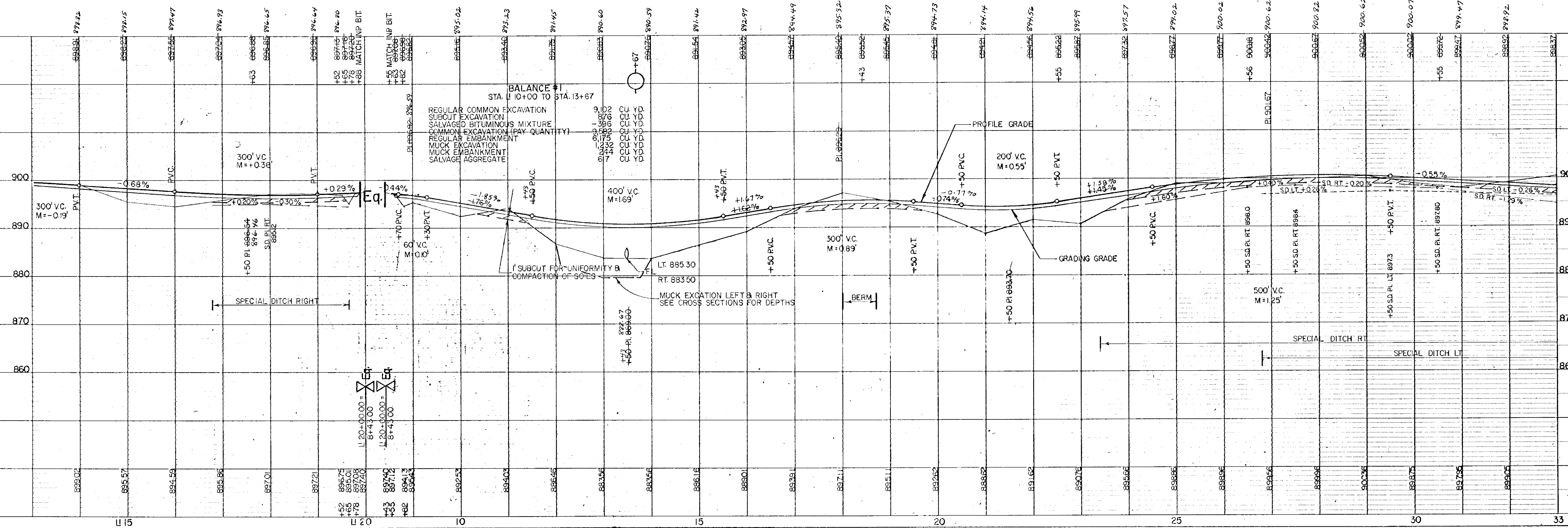
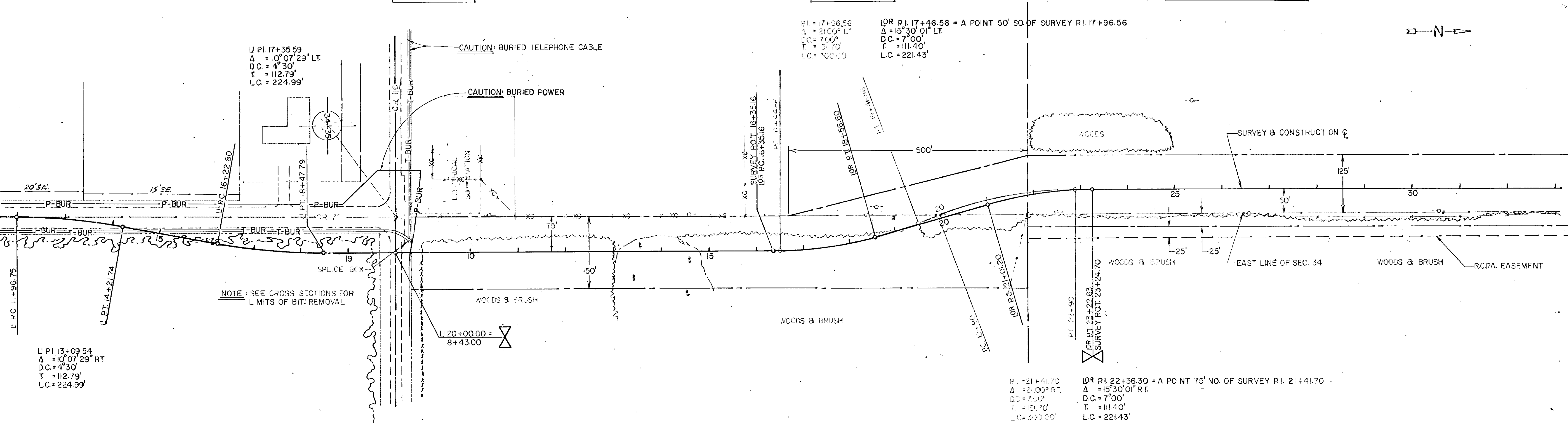


B.M. 6, ELEV. 894.73  
DEL. SPIKE IN RP  
140' LT. STA. 8+74

STA. 13+50  $\frac{1}{2}$  PIPE X-ING  
F&I 24" X 80" RCP CULV. CL. 2  
F&I 2-24" RCP APRON

B.M. 7, ELEV. 888.61  
DEL. SPIKE IN RP  
112' LT. STA. 18+43

B.M. 8, ELEV. 894.73  
S.E. COR. BOLT ON BASE PLATE  
TRANSMISSION POLE 188' LT. 25+38





STA. 35+00, 2" PIPE X-ING  
 F&I 24" X 64" RCP CULV. CL. 2  
 F&I 2-24" RCP APRONS

B.M. 9, ELEV. 879.09  
 S.E. COR. BASE PLATE OF  
 TRANSMISSION POLE 95' LT. 41+50

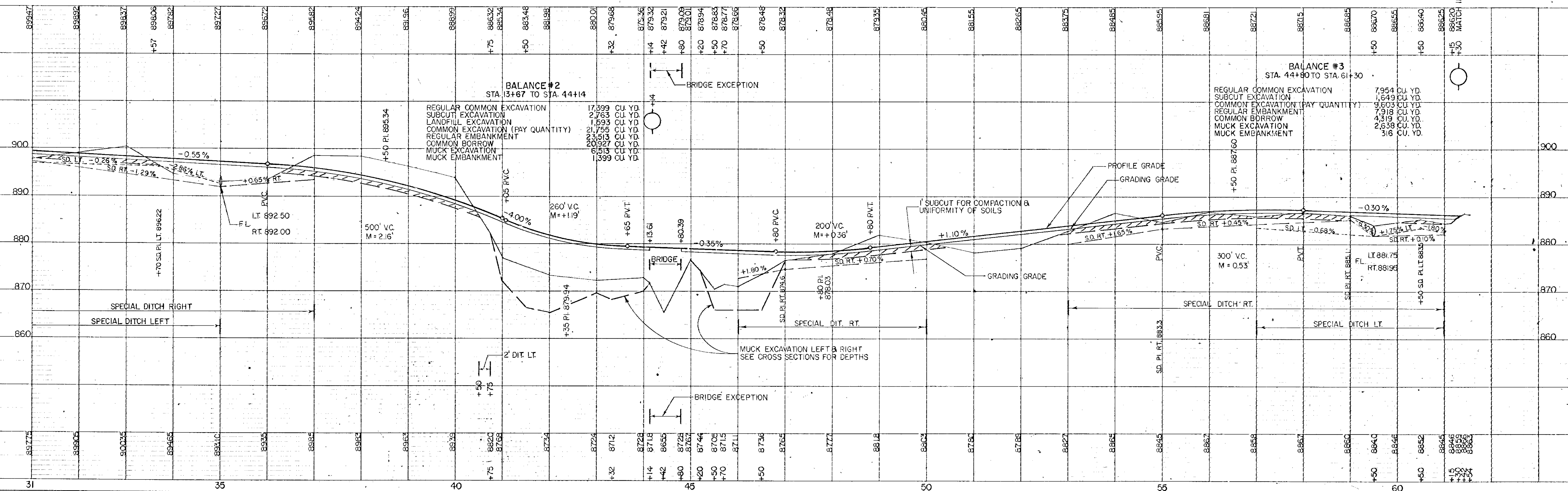
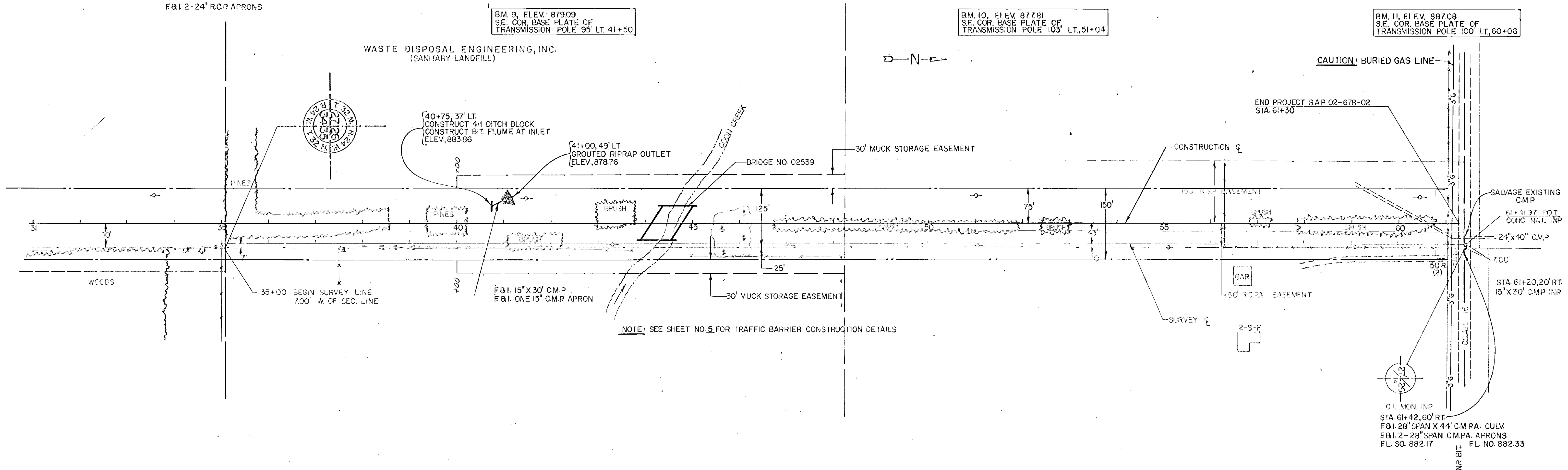
B.M. 10, ELEV. 877.81  
 S.E. COR. BASE PLATE OF  
 TRANSMISSION POLE 103' LT. 51+04

B.M. 11, ELEV. 887.08  
 S.E. COR. BASE PLATE OF  
 TRANSMISSION POLE 100' LT. 60+06

WASTE DISPOSAL ENGINEERING, INC.  
 (SANITARY LANDFILL)



CAUTION: BURIED GAS LINE



EXCAVATION EMBARKMENT

Fed. Proj. No.

15+00 89557

880 169

14+00 89902

530 324

13+00 89964

222 167

12+00 90003

250 167

24' BIT. ENCLT.  
11+79 90003

47 24

1/2 30' BIT. ENCLT.  
11+56 90011

49 9

11+00 90016

121 41

10+00 90032

181 83

CAUTION: BURIED UTILITIES IN PLACE, SEE PLAN SHEETS FOR APPROX. LOCATIONS

NOTE: 11 INDICATES ALIGNMENT SOUTH OF C.R. 116

16' STA 10+00: CUT OR JACKHAMMER EXISTING BITUMINOUS ALONG A NEAT LINE

BEGIN PROJECT S.A.P. 02-678-02  
STA: 10+00

11 STA: 10+00 - 11 STA: 15+00

State Proj. No.

S.A.P. 02-678-02

Sheet No. 9 of 17 Sheets

TELETYPE POST CROSS SECTION 1011 9/76



S.D. SHOULDER C.R. #116

L19+78 89708

41 0  
SC 55

S.D. #116 DITCH LT & RT  
L19165 89501

94 10  
SC 73

L19+52 89675

144 11  
SC 19

S.D. 894.66

730 7  
SC 92

L19+00 89721

S.D. 894.82

1774 4  
SC 173

L18+00 89701

S.D. 895.12

550 0  
SC 66

± 20' C.C. 5' E.H.L.T.  
L17+63 89684

S.D. 895.05

733 40  
SC 24

L17+00 89586

S.D. 894.92

1104 289  
SC 44

NOTE: L1 INDICATES ALIGNMENT SOUTH OF CR #16

L16+00 89459

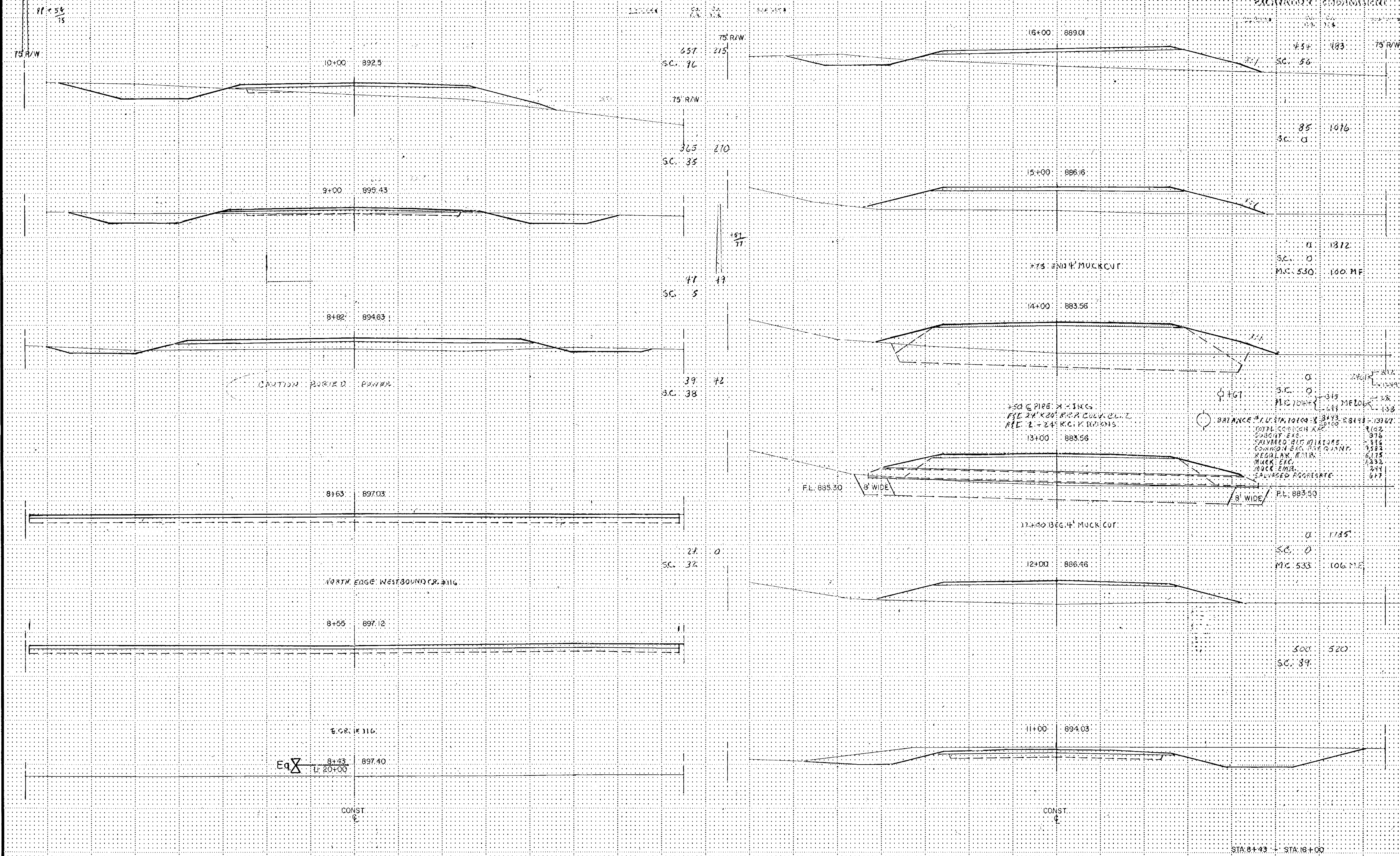
880 169

L1 STA. 16+00 - L1 STA. 19+76

ILLUSTRATION CROSS SECTION, NOT TO SCALE



EXCAVATION EMBANKMENT

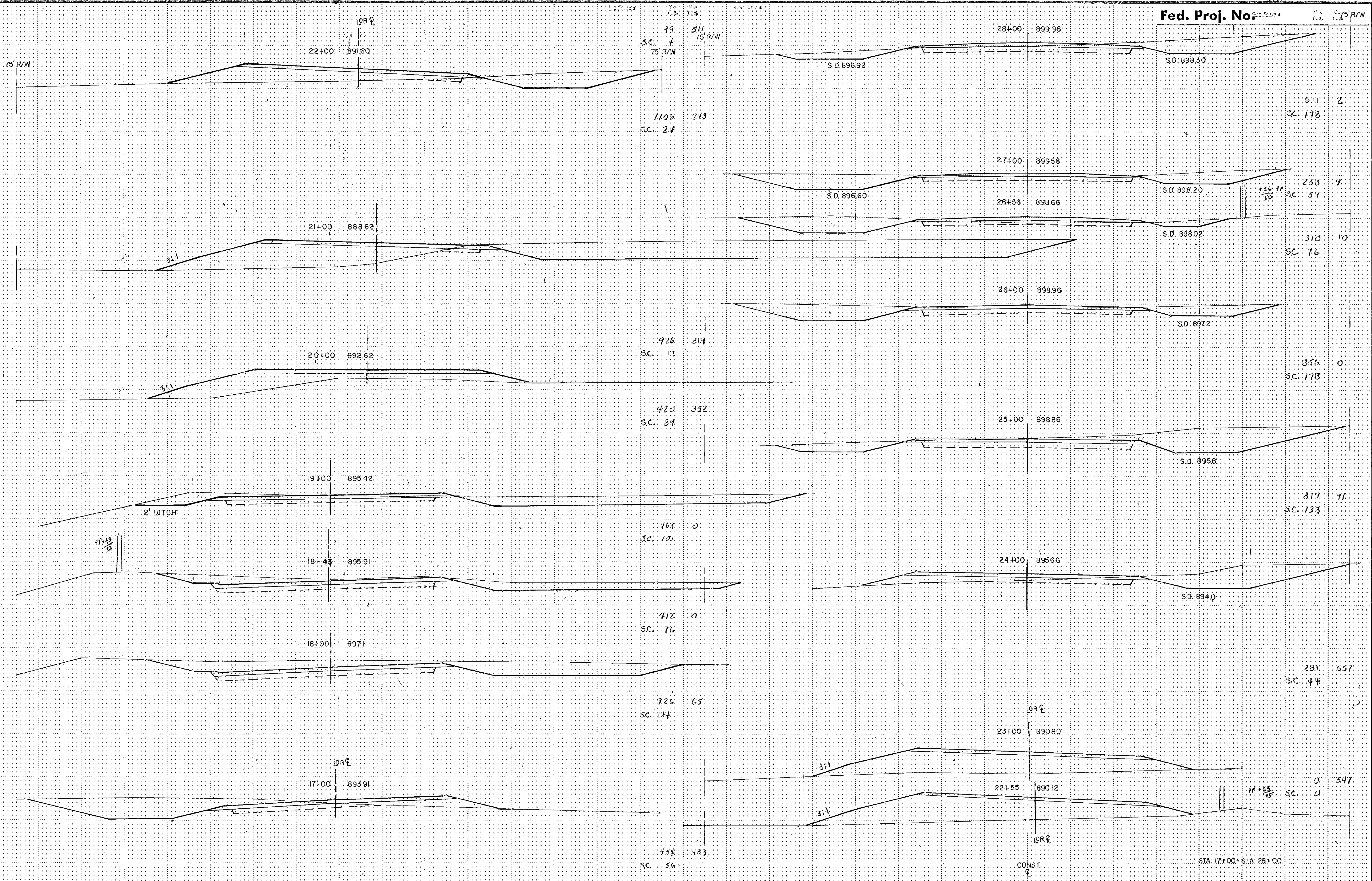


Material Quantity Table:

BALANCE	8193	8193
TOTAL CONCRETE	1000	9193
SUBCUT EXC.	376	8817
SAVED BITUMINUM	316	8501
COMMON BITUMINUM	352	8149
REGULAR EMB.	6175	14224
MUCK EXC.	1432	15656
MUCK REM.	211	15445
SAVED AGGREGATE	467	15912

TELETYPE POST CROSS SECTION UNIT 9/76





1106 743  
SC. 2f

611 2  
SC. 178

238 7  
SC. 54

310 10  
SC. 76

926 811  
SC. 17

850 0  
SC. 178

420 352  
SC. 37

817 71  
SC. 133

467 0  
SC. 101

412 0  
SC. 76

926 65  
SC. 144

281 657  
SC. 44

454 483  
SC. 50

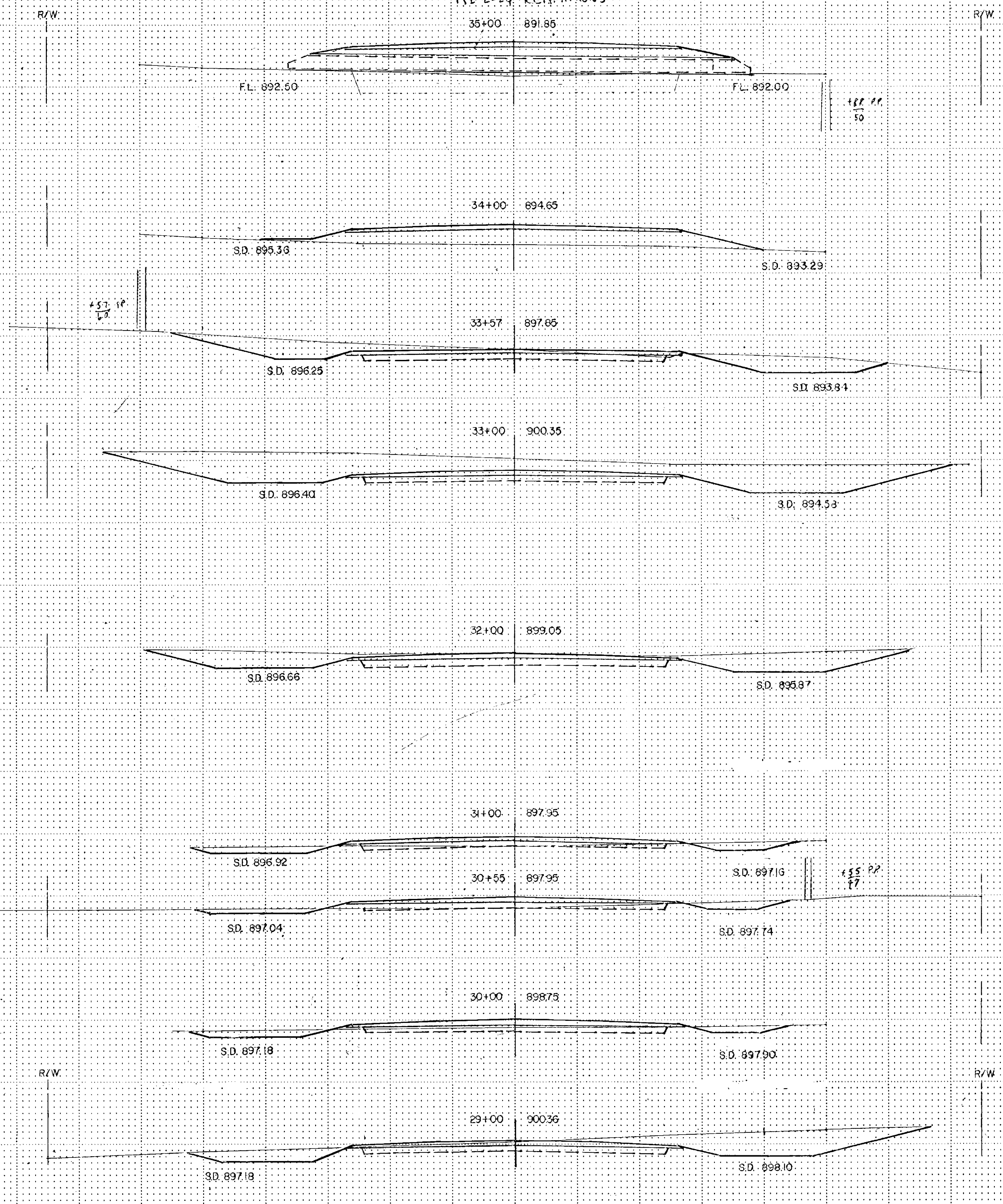
0 547  
SC. 0

TELEPHONE POST CROSS SECTION 1017 976



E. PIPE X-100  
 FIVE 24" X 4' R.C.P. CURV. CL. 14  
 FIVE 2-24" R.C.P. APPROXS

Fed. Proj. No.  
 EXCAVATION EMBANKMENT

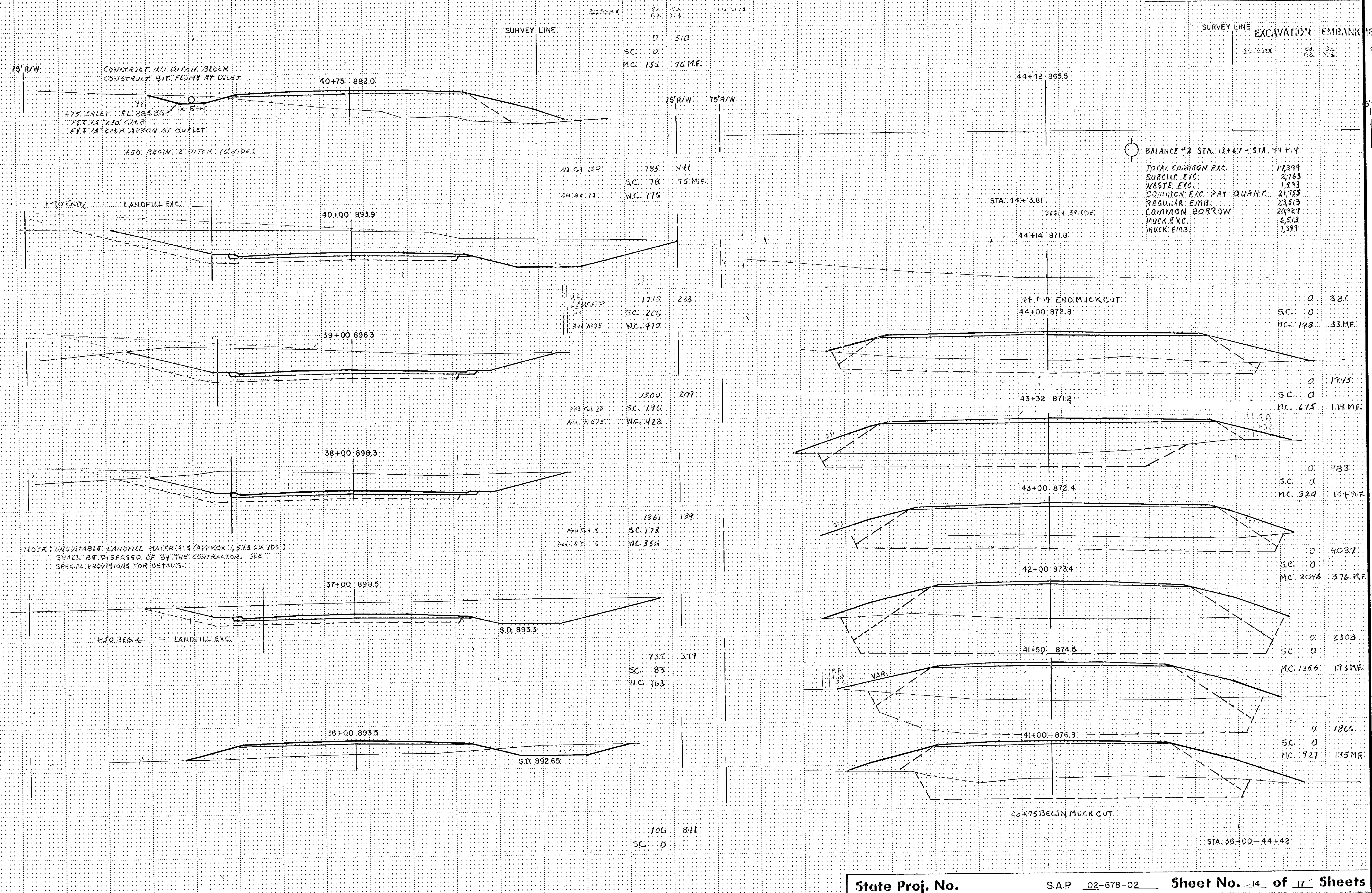


Station	Excavation	Embankment
35+00	0	81
34+00	0	81
33+57	128	123
33+00	624	1
32+00	1131	0
31+00	1401	43
30+55	57	53
30+00	65	54
29+00	1431	22
29+00	624	0

TELETYPE POST-CROSS SECTION UNIT 9/76

CONST.





CONSTRUCT 1/2" DITCH BLOEK  
CONSTRUCT BIT. FLUME AT INLET  
1/2" INLET FL. 884.26  
1/2" INLET CAMP.  
1/2" INLET APRON AT OUTLET  
150' BEGIN 2' DITCH (U-SIDE)

BALANCE #2 STA. 13+67 - STA. 44+14  
TOTAL COMMON EXC. 17,399  
SUBCUT EXC. 2,163  
WASTE EXC. 1,543  
COMMON EXC. PAY QUANT. 21,755  
REGULAR EMB. 23,513  
COMMON BORROW 20,927  
MUCK EXC. 6,513  
MUCK EMB. 1,399

NOTE: UNSUITABLE LANDFILL MATERIALS (APPROX 1,573 CU YDS.)  
SHALL BE DISPOSED OF BY THE CONTRACTOR. SEE  
SPECIAL PROVISIONS FOR DETAILS.

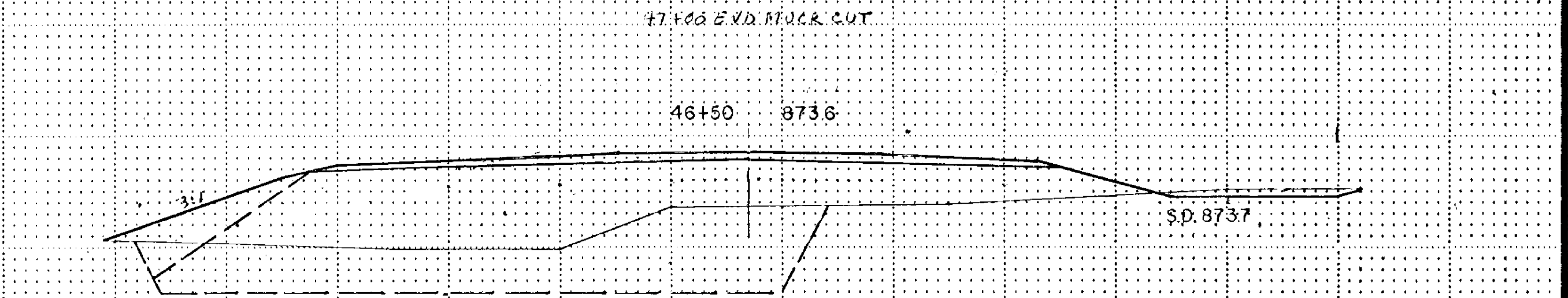
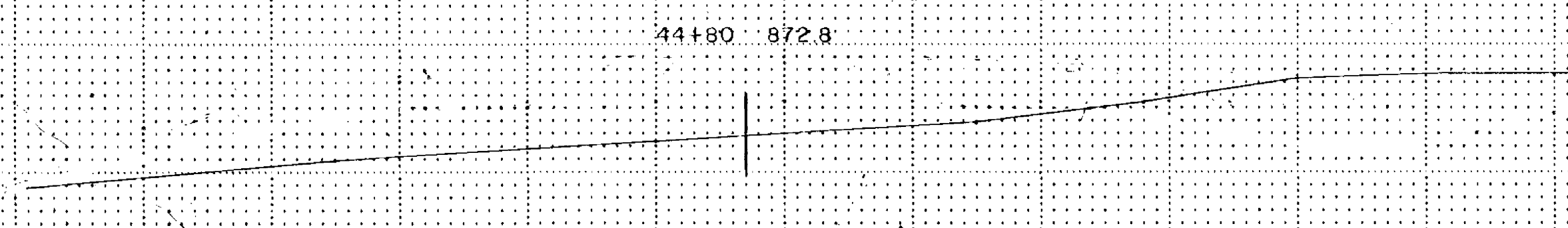
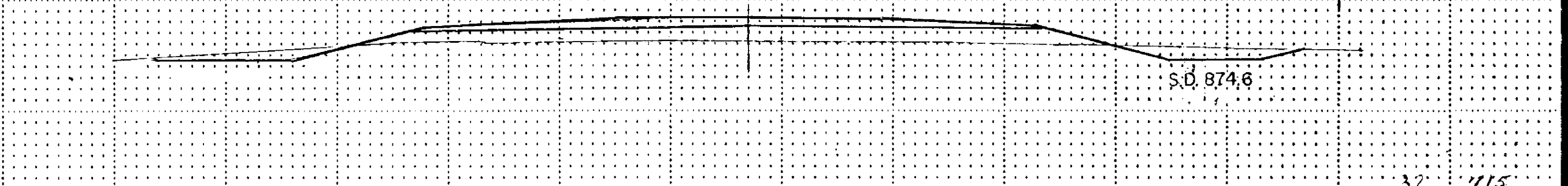
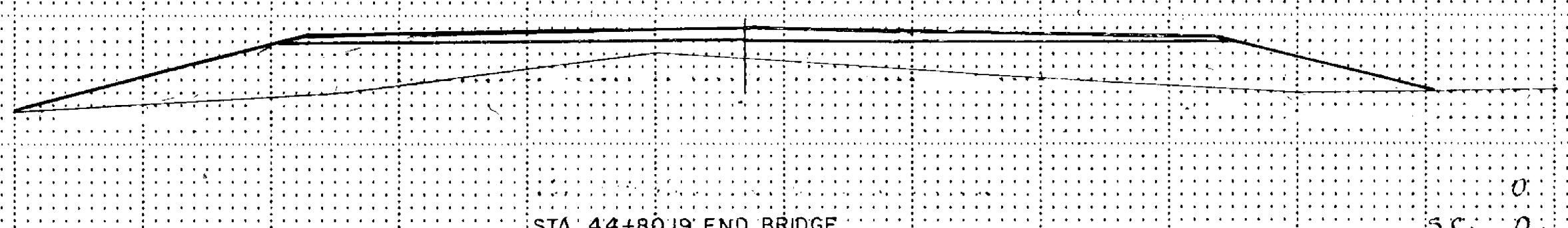
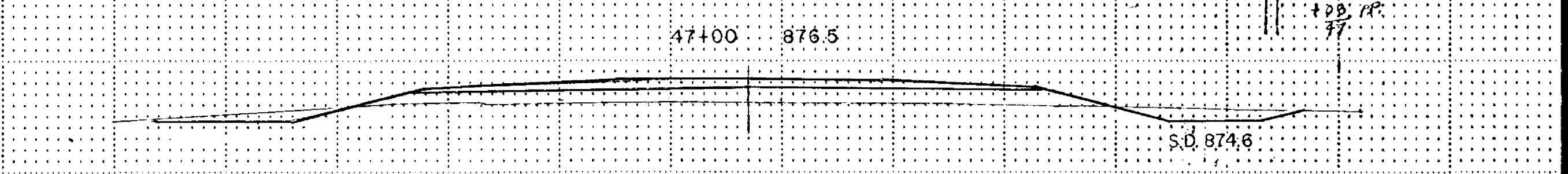
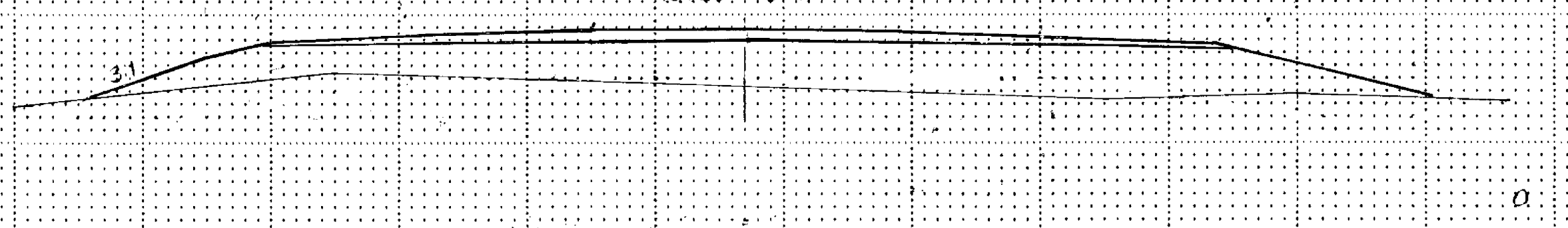
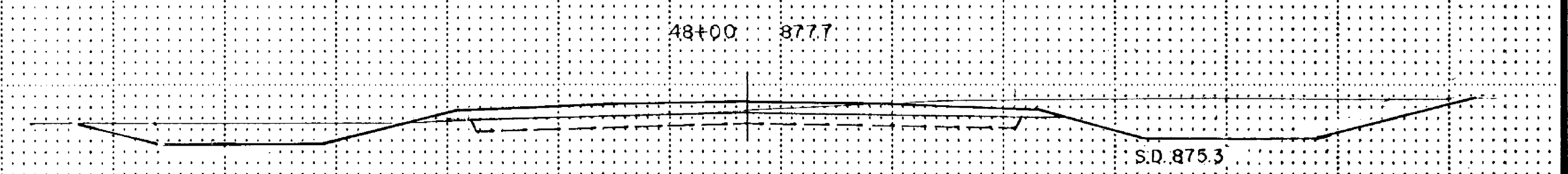
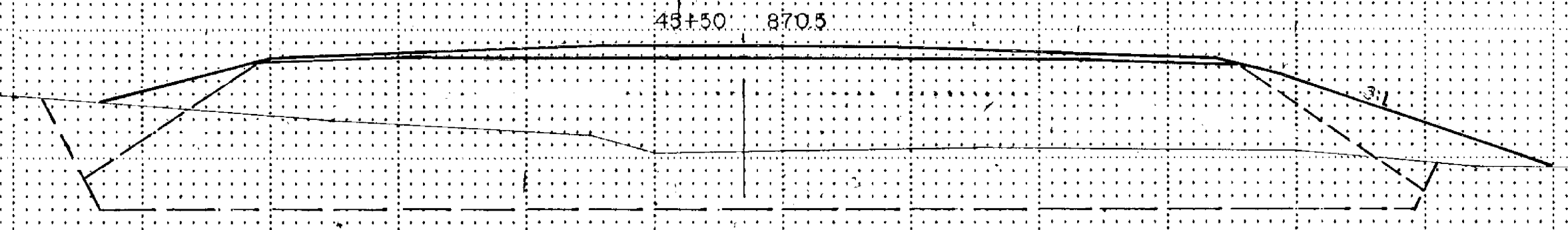
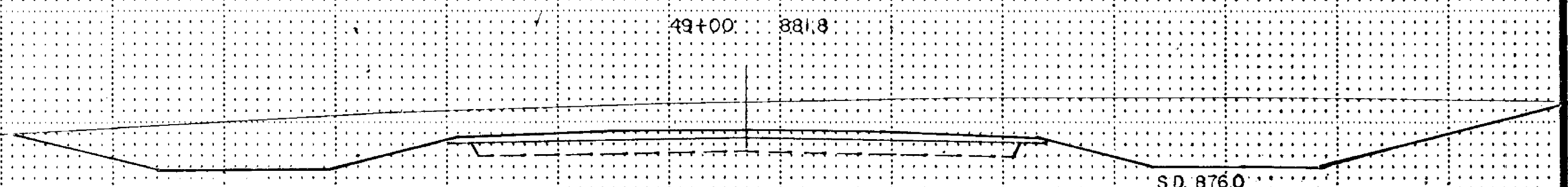
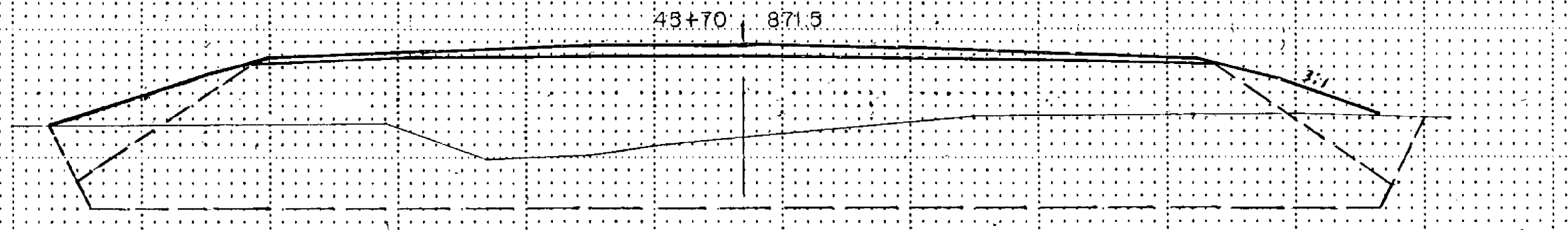
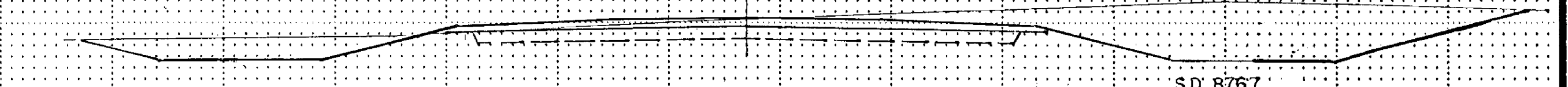
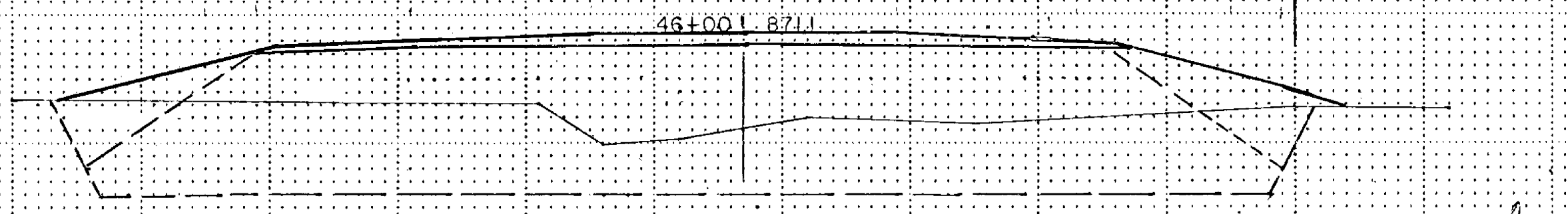
TELSON POST CROSS SECTION BIT 1/2"



75' R/W

75' R/W

75' R/W



EXCAVATION EMBANKMENT

Station	Excavation	Embankment
46+00.1	0	1578
48+70	0	1172
48+50	0	825
45+20	0	788
45+00	0	711
44+80	0	1111

Station	Excavation	Embankment
50+00	0	8803
49+00	0	8818
48+00	0	8777
47+00	0	8765
46+50	0	8736

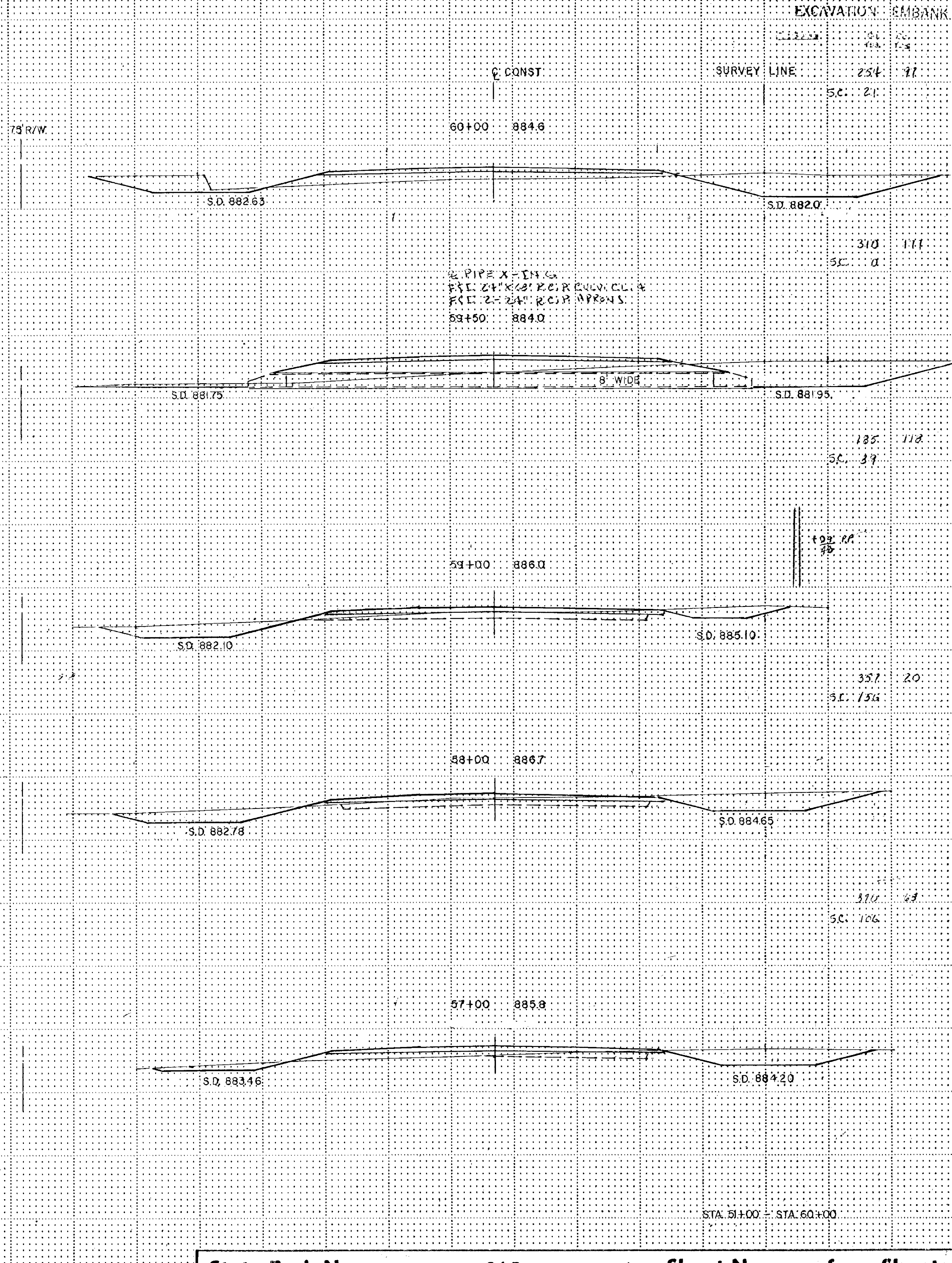
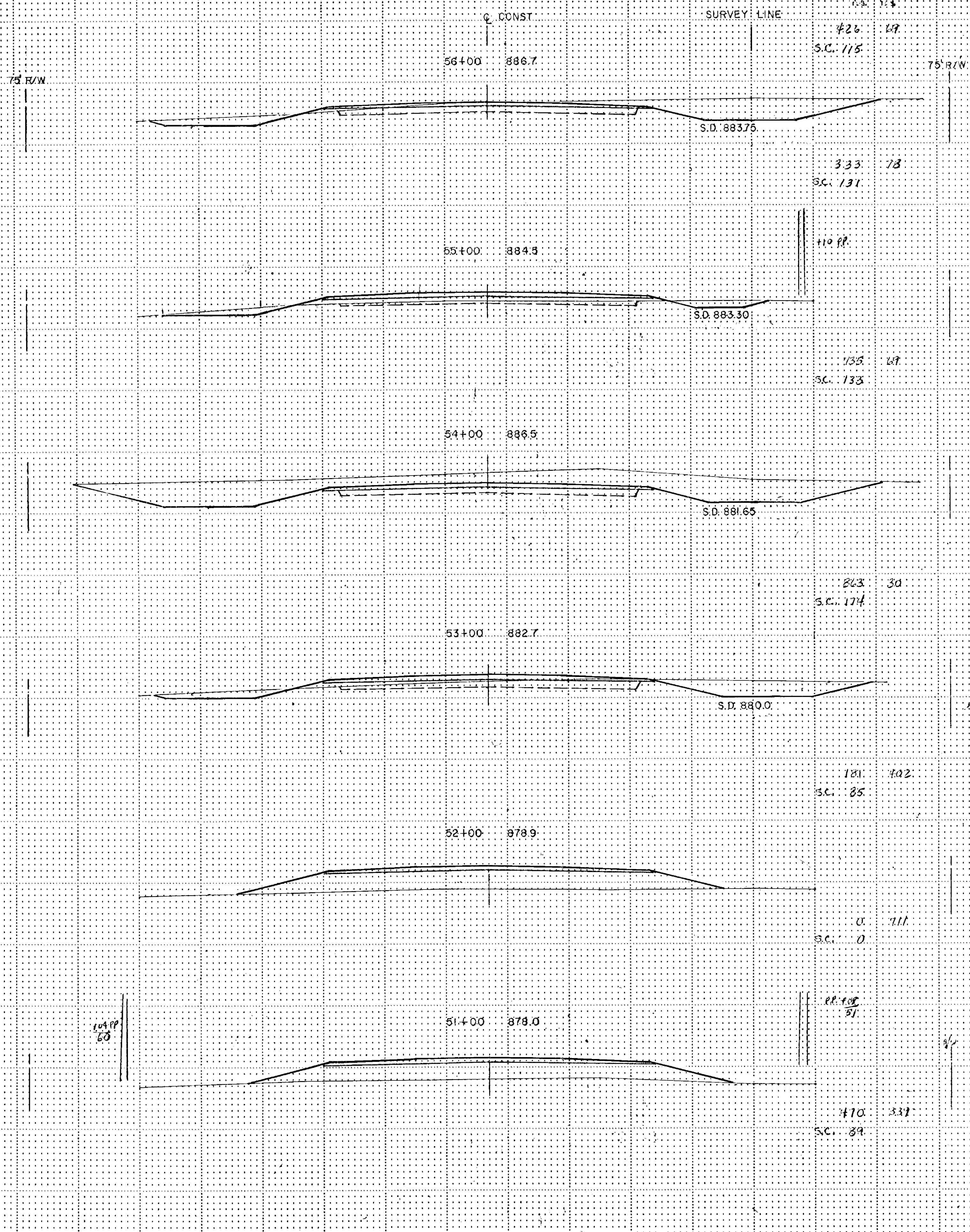
CONST. SURVEY

CONST. SURVEY

TELEPHONE POST CROSS SECTION, 10/11 1/76



EXCAVATION EMBANKMENT



2 PIPE X-INGS  
E.C. 24" X 18" R.C. REIN. CL. 4'  
F.C. 24" X 18" R.C. REIN. 4' APARTS.  
59+50 884.0

STA. 51+00 - STA. 60+00

TELETYPE POST CROSS SECTION UNIT 976



SURVEY LINE

61+54 8863

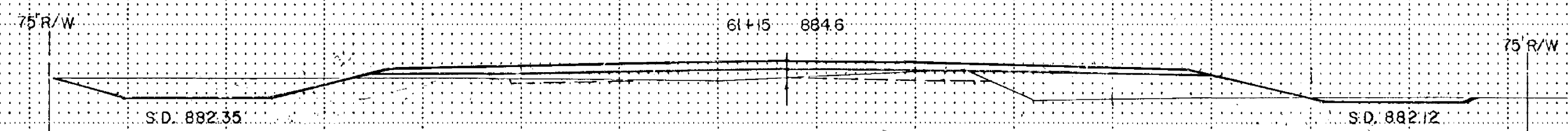
Q CSAH NO. 16  
61+42 8886

SO. EDGE OF BITUMINOUS MAT  
CSAH NO. 16  
61+30 8859

34 22  
SC 35

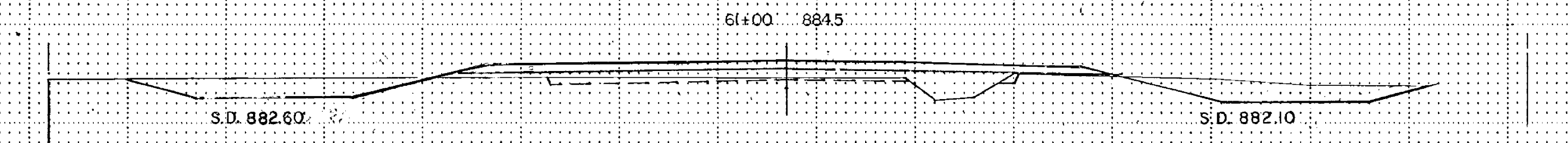
BALANCE #3 STA. 41+80 - STA. 61+30

TOTAL COMMON EXC.	1754
SUBCUT EXC.	1647
COMMON EXC. PAY QUANT.	2603
REGULAR EMB.	1918
COMMON BORROW	4317
MUCK EXC.	2638
MUCK EMB.	316

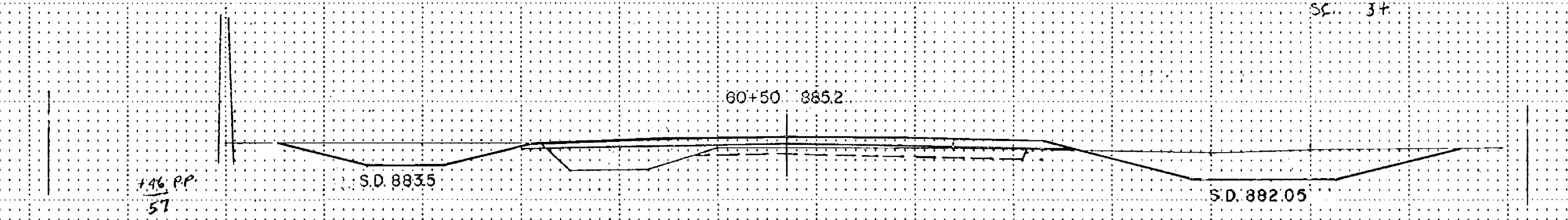


37 35  
SC 26

CAUTION BURIED GAS LINE



203 73  
SC 34



254 71  
SC 21

STA. 60+50 - STA. 61+54

ILLINOIS ROAD CROSS SECTION UNIT 976 MAR 53

CONST. SURVEY