

As BUILT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1560-03-72	MAP 011 (2.8)	1

INDEX OF SHEETS

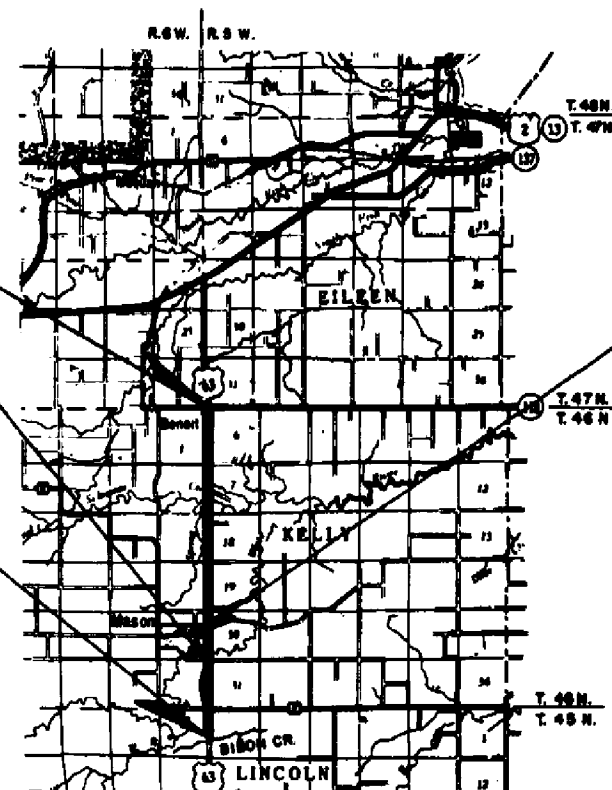
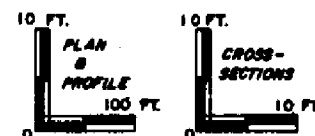
Sheet No.	Title
1	Typical Sections and Details
2-2.7	Estimate of Quantities
3-3.2	Miscellaneous Quantities
4	Right of Way Plat
5-5.5	Plan and Profile
6-6.6	Standard Detail Drawings
-	Sign Plates
8	Structure Plans
-	Computer Earthwork Data
9-9.44	Cross Sections

TOTAL SHEETS = 76

C.T.H. "E" - S.T.H. 118

U.S. H. 63
BAYFIELD COUNTY

STATE PROJECT NUMBER
1560-03-72



END PROJECT 1560-03-72
STA. 552+01.78

EXCEPTION TO NET $\frac{1}{2}$ LENGTH
STA. 732+90-742+50

BEGIN PROJECT 1560-03-72
STA. 646+16.54

EQ. STA. 766+01.67 BK. =
316+00 AHD.

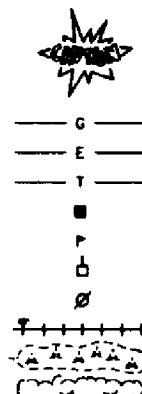
DESIGN DESIGNATION

A.D.T.	1988	=	1860
A.D.T.	2008	=	2580
D.H.V.		=	15.5%
D.		=	60-40
T.		=	8%
V.		=	55 M.P.H.

CONVENTIONAL SIGNS

COUNTY LINE	-----
CORPORATE LIMITS	=====
PROPERTY LINE	-----
LOT LINE	-----
LIMITED HIGHWAY EASEMENT	-----
EXISTING RIGHT OF WAY	-----
NEW RIGHT OF WAY	-----
REFERENCE LINE	-----
SLOPE INTERCEPT	-----
ORIGINAL GROUND	-----
MARSH OR ROCK PROFILE	-----
CULVERT IN PLACE	=====
CULVERT REQUIRED	=====
CULVERT REQUIRED (Profile)	=====

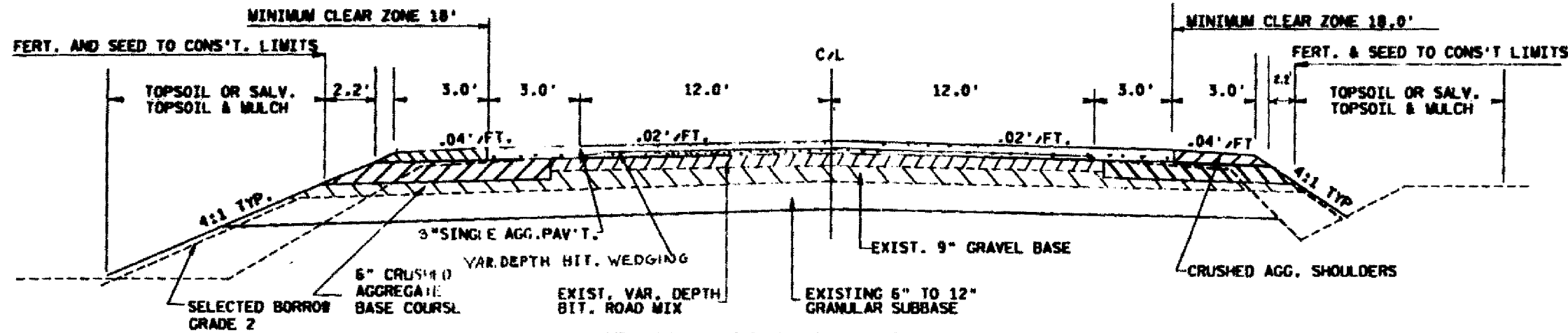
COMBUSTIBLE FLUIDS (UNDER PRESSURE)	-----
UNDERGROUND UTILITIES	-----
GAS	-----
ELECTRIC	-----
TELEPHONE	-----
SERVICE PEDESTAL	-----
CABLE MARKER	-----
POWER POLE	-----
TELEPHONE POLE	-----
RAILROADS	-----
MARSH	-----
WOODED AREA	-----



LAYOUT
SCALE 0 1 2 MI.

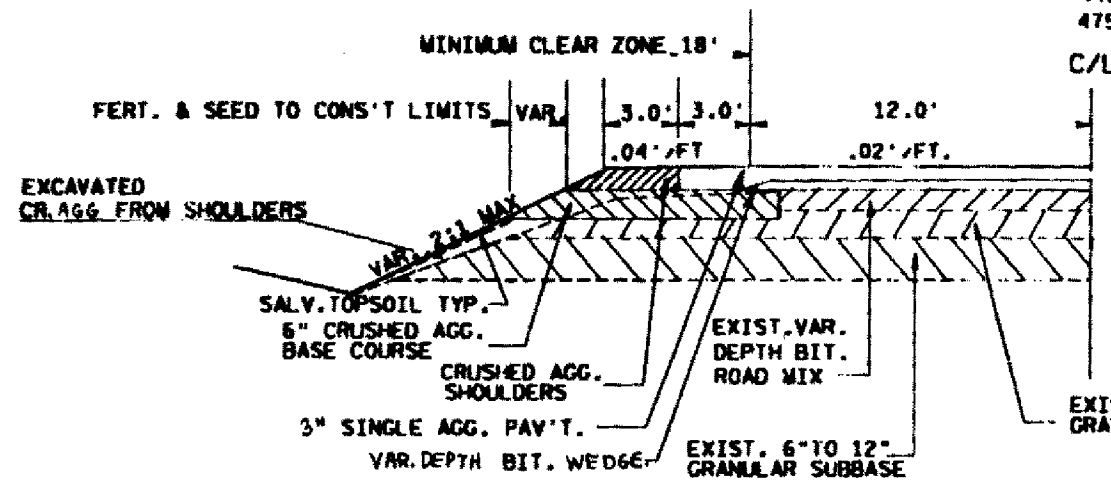
TOTAL NET LENGTH OF CENTERLINE = 6.988 MI.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
Surveyor <u>R.O.L.</u>	District Checker <u>D.E.M.</u>
Designer <u>R.L.L.</u>	C.O. Checker <u>Fla</u>
District Supervisor <u>W.G.</u>	C.O. Coordinator <u>Fla</u>
APPROVED:	
DATE: <u>11/1/77</u>	<u>Del R. Long</u> DISTRICT TRANSPORTATION DIRECTOR (ACTING)
APPROVED:	
DATE: <u>1/1/78</u>	<u>R.W. Boney</u> STATE DESIGN ENGINEER FOR HWYS.
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION REGION 9 WISCONSIN DIVISION	
APPROVED:	
DATE: _____	DIVISION ADMINISTRATOR



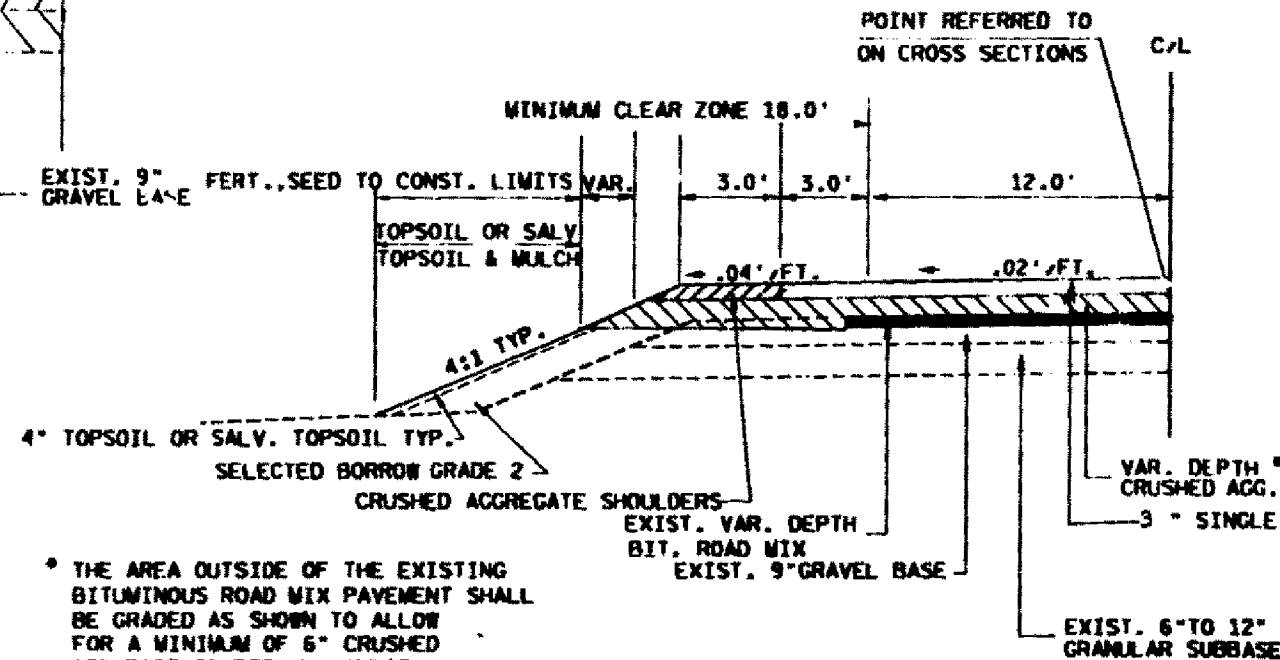
TYPICAL RESURFACING SECTION

STATION TO STATION	
667+00	- 674+00
692+00	- 732+90
742+50	- 766+01.67
365+00	- 410+00
416+00	- 434+00
443+00	- 455+00
475+00	- 547+76.87



TYPICAL HALF SECTION

STATION TO STATION	
679+00	- 692+00
316+00	- 365+00
455+00	- 475+00



TYPICAL CRUSHED AGG. BASE COURSE LIFT HALF SECTION

STATION TO STATION	
646+16.54	- 667+00
674+00	- 679+00
410+00	- 416+00

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER IN THE FIELD.

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE 4\"/>

ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS BETWEEN THE SUBGRADE SHOULDER POINTS, SHALL BE FERTILIZED, SEEDING AND MULCHED.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE UTILITIES WILL ADJUST THEIR FACILITIES TO FIT THE NEW HIGHWAY CONSTRUCTION.

SEED QUANTITIES ARE BASED ON SEED MIXTURE NO. 3
CUT AND FILL SLOPES SHALL BE ROUNDED 5 FEET BEYOND THE INTERCEPT POINT OR TO THE RIGHT OF WAY LIMITS WHICHEVER COMES FIRST.

CLEAR ZONE CLEARING & FILLING SHALL BE ACCORDING TO THE MULCHING AND FERTILIZATION.

TOPSOIL IS TO BE STRIPPED TO A MINIMUM WIDTH OF 10' FROM THE SUBGRADE SHOULDER POINT.

UTILITIES

CHEQUAMEGON TELE. COOP., INC.
P.O. BOX 67
CABLE, WIS. 54821
ALAN OLSON
TELE. (715) 798-3303

NORTHERN STATES POWER CO.
101 WEST SECOND STREET
P.O. BOX 470
ASHLAND, WIS. 54806
BOB METZGER, GENERAL MANAGER
TELE. (715) 682-5221

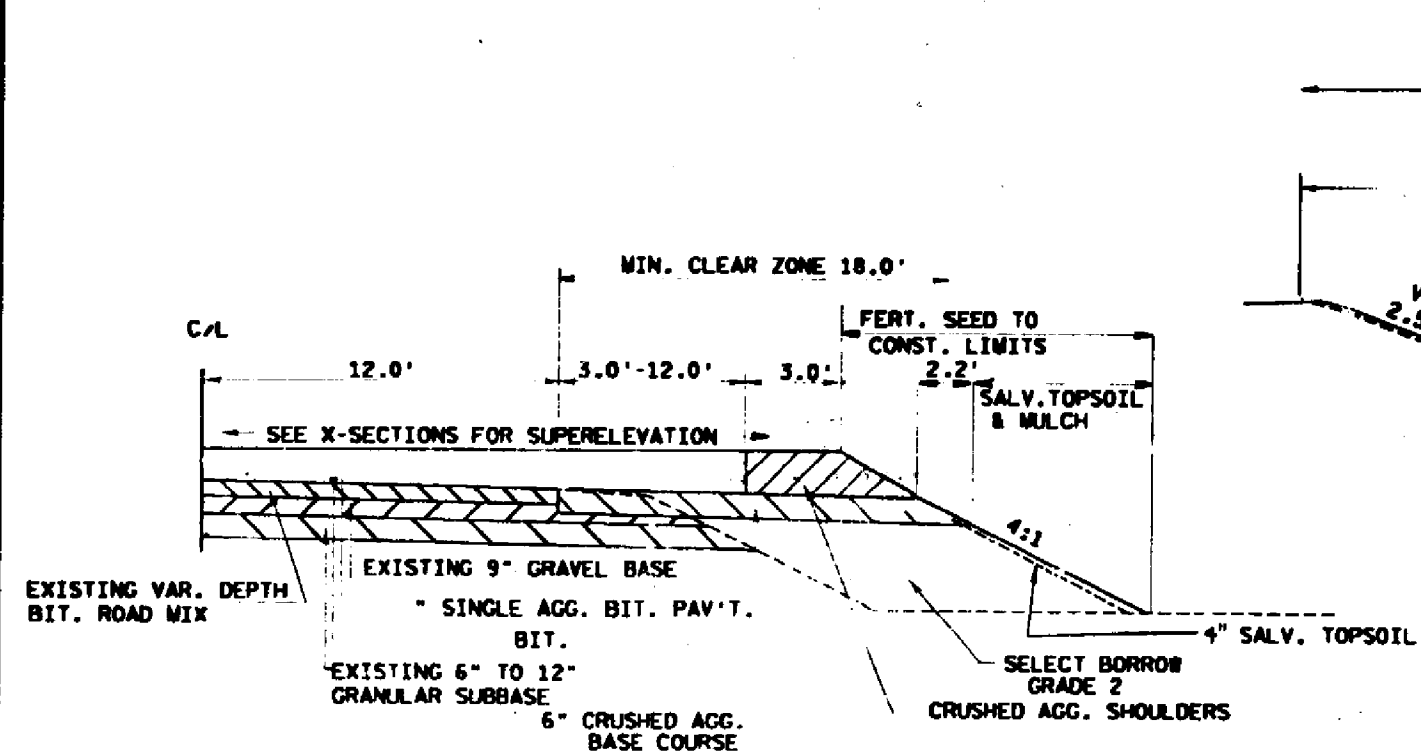
STANDARD DETAIL DRAWINGS

EROSION MAT	8E7-1
APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCHES	8F1-9
AT-GRADE SIDE ROAD INTERSECTIONS, TYPES "B" AND "C"	9A1-8a
PAVEMENT MARKING	15CB-1
CLASS "A" STEEL PLATE BEAM GUARD (two sheets)	14B2-8a & b
CONSTRUCTION BARRICADES AND STANDARD SIGNS	15C1-7
CURB AND GUTTER	8D1-11
SILT FENCE	8E1-2

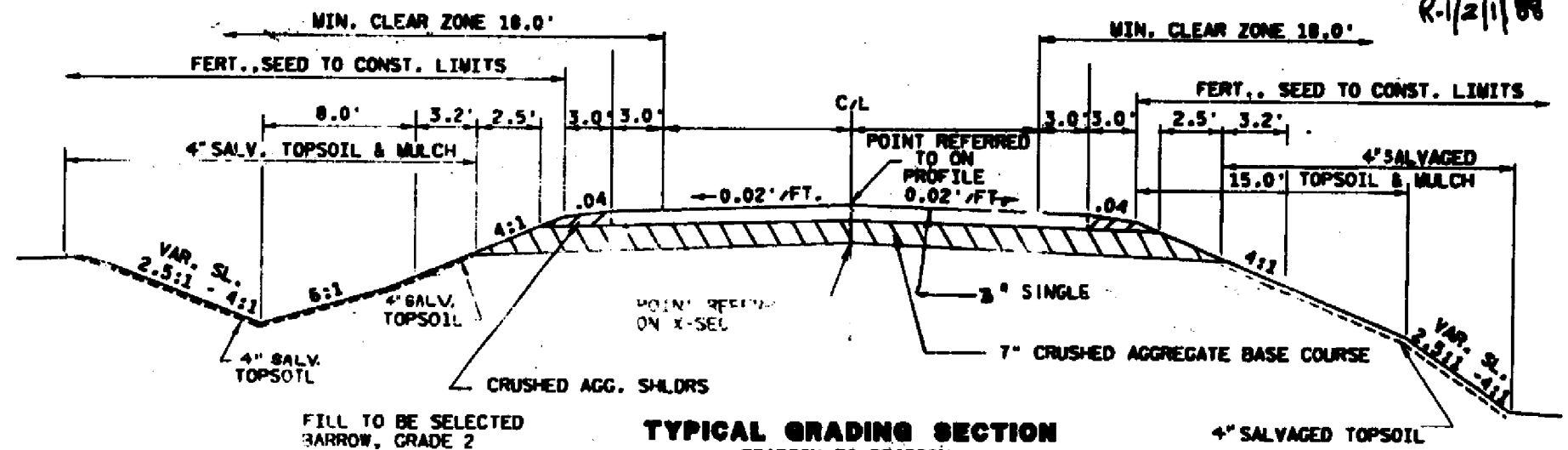
* THE AREA OUTSIDE OF THE EXISTING BITUMINOUS ROAD MIX PAVEMENT SHALL BE GRADED AS SHOWN TO ALLOW FOR A MINIMUM OF 6\"/>

LEVELS: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63.

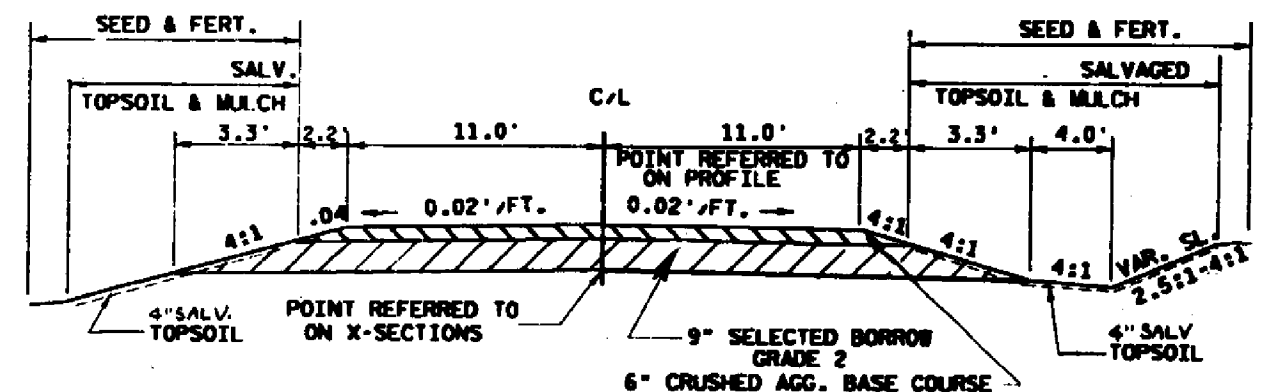
R-1/2/1/88



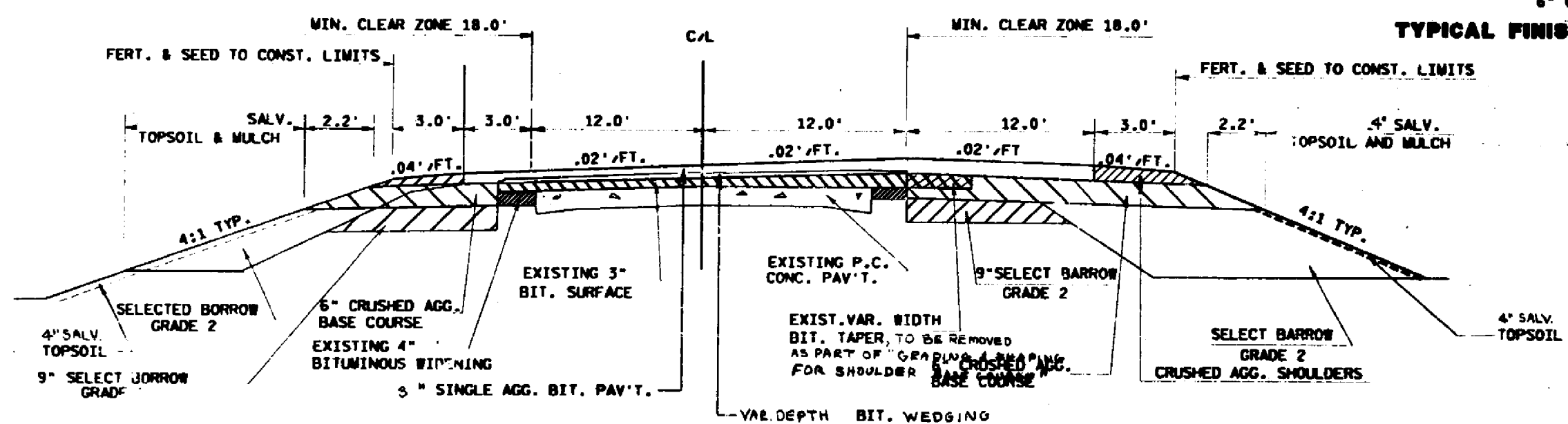
TYPICAL FINISHED SUPERELEVATED SECTION
 (SHOWING BIT. TAPER)
 STA. 547+76.87 TO 550+00



TYPICAL GRADING SECTION
 STATION TO STATION
 434+00 - 443+00

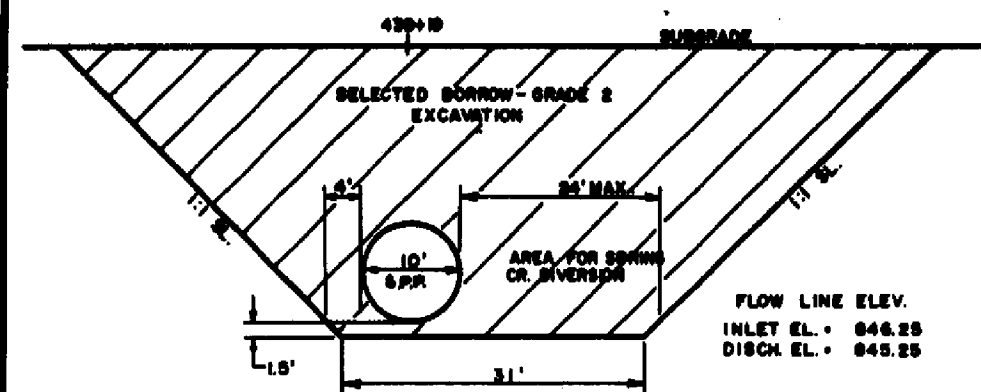


TYPICAL FINISHED SECTION FOR S.R.
 STA. 681+25 LT.
 STA. 730+60 LT.

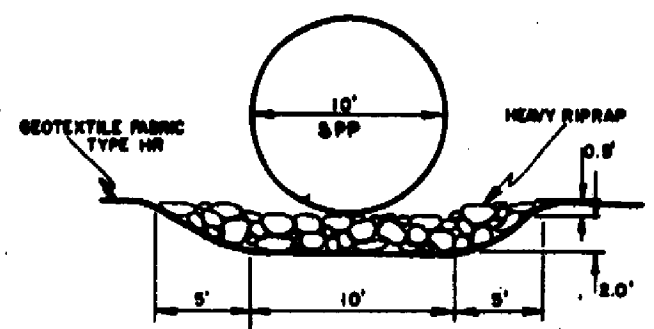


TYPICAL RESURFACING SECTION WITH EXIST. P.C. CONC. PAV'T.
 (ALSO SHOWS DECELERATION LANE)
 STA. 550+00 TO 552+01.78

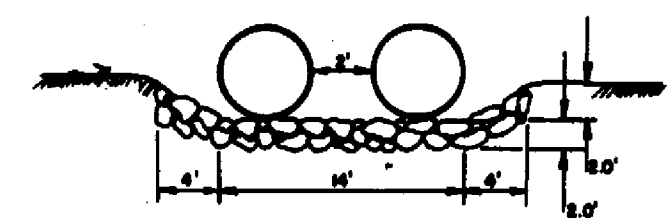
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



CULVERT PIPE REPLACEMENT DETAIL
STA. 439+19

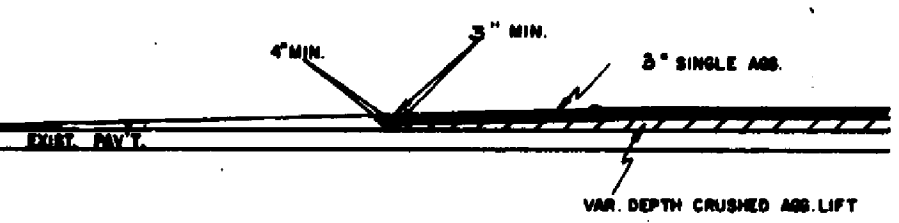


DETAIL FOR HEAVY RIPRAP & GEOTEXTILE FABRIC, TYPE HR
STA. 439+19 LT. & RT.
NOTE: LENGTH H. RIPRAP SECTION IS APPROX. 20'.

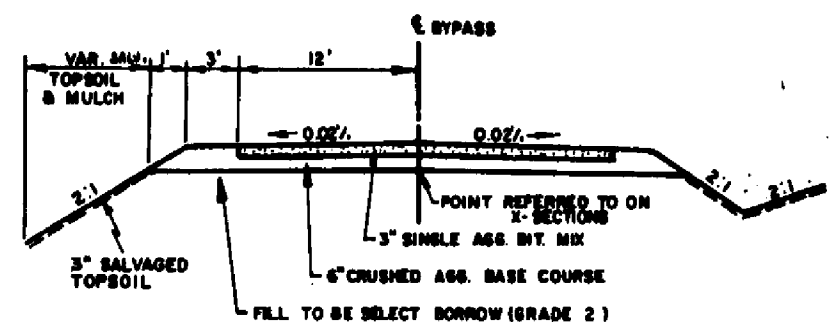


DETAIL FOR HEAVY RIPRAP
STA. 19+85 LT. & RT. (TEMP. BYPASS)

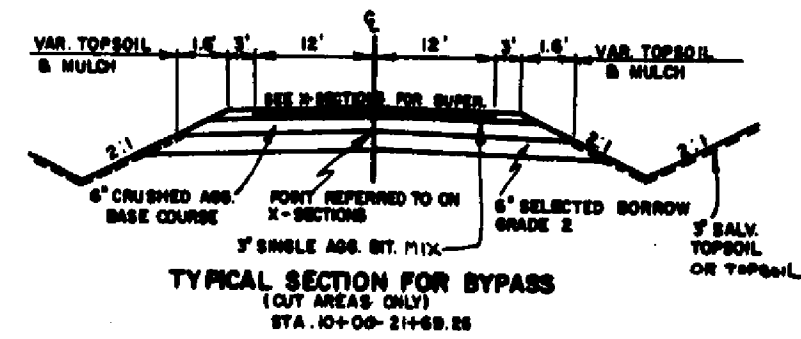
NOTE: H. RIPRAP USED FOR THE TEMPORARY BYPASS MAY BE SALVAGED FOR MAINLINE STA. 439+19, IF FEASIBLE. LENGTH H. RIPRAP SECTION IS APPROX. 20'.



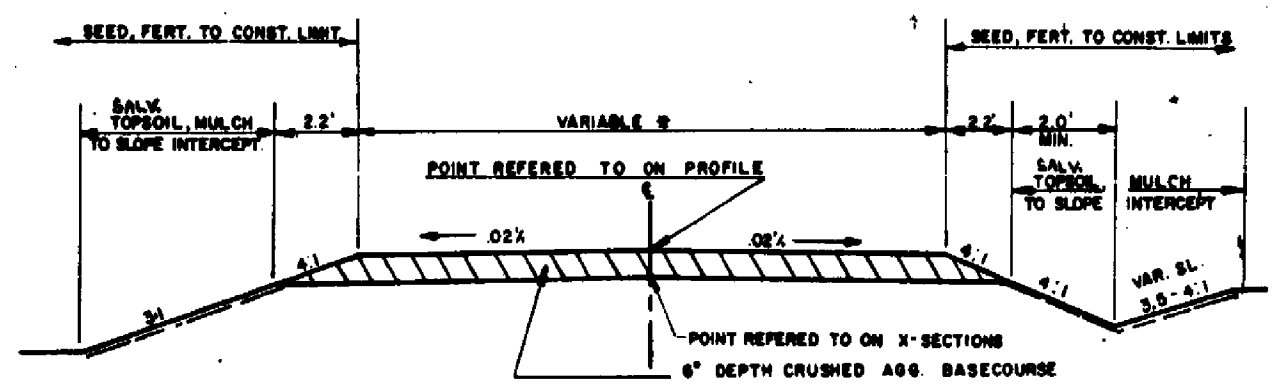
DETAIL FOR CRUSHED AGG. LIFT TRANSITION



TYPICAL SECTION FOR TEMPORARY BYPASS
STA. 10+00 - 21+89.25 (FILL AREAS ONLY)

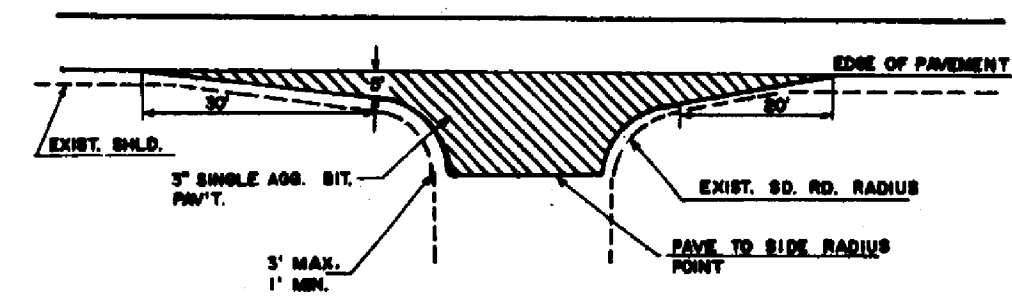


TYPICAL SECTION FOR BYPASS (CUT AREAS ONLY)
STA. 10+00 - 21+89.25

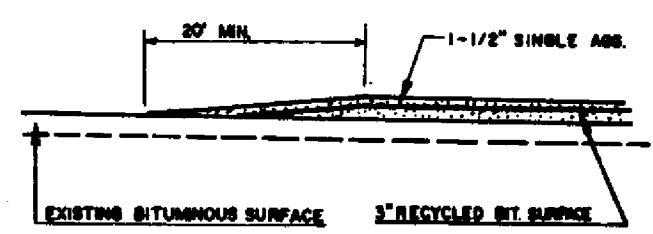


TYPICAL SECTION FOR COMMERCIAL OR PRIVATE ENTRANCE

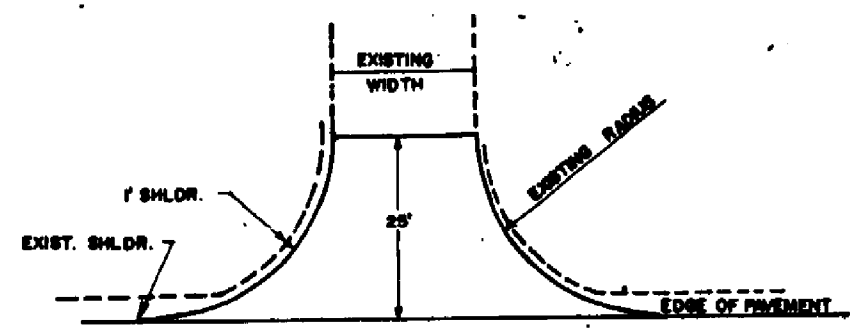
* WIDTH OF PRIVATE ENTRANCES 18' MIN. - 24' MAX.
* WIDTH OF COMMERCIAL ENTRANCES 35' MAX.



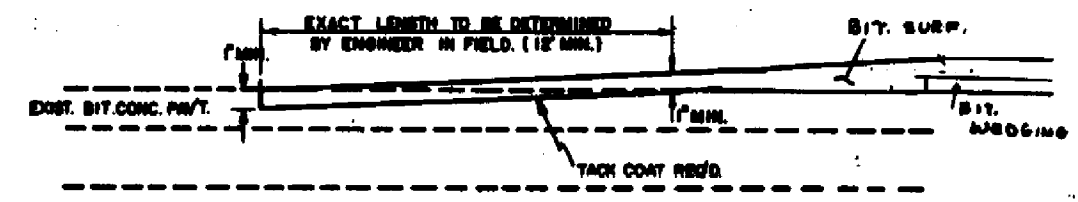
CRUSHED AGGREGATE SIDE ROAD RESURFACING



FEATHER JOINT DETAIL
USE AT STA. 732+00
742+00

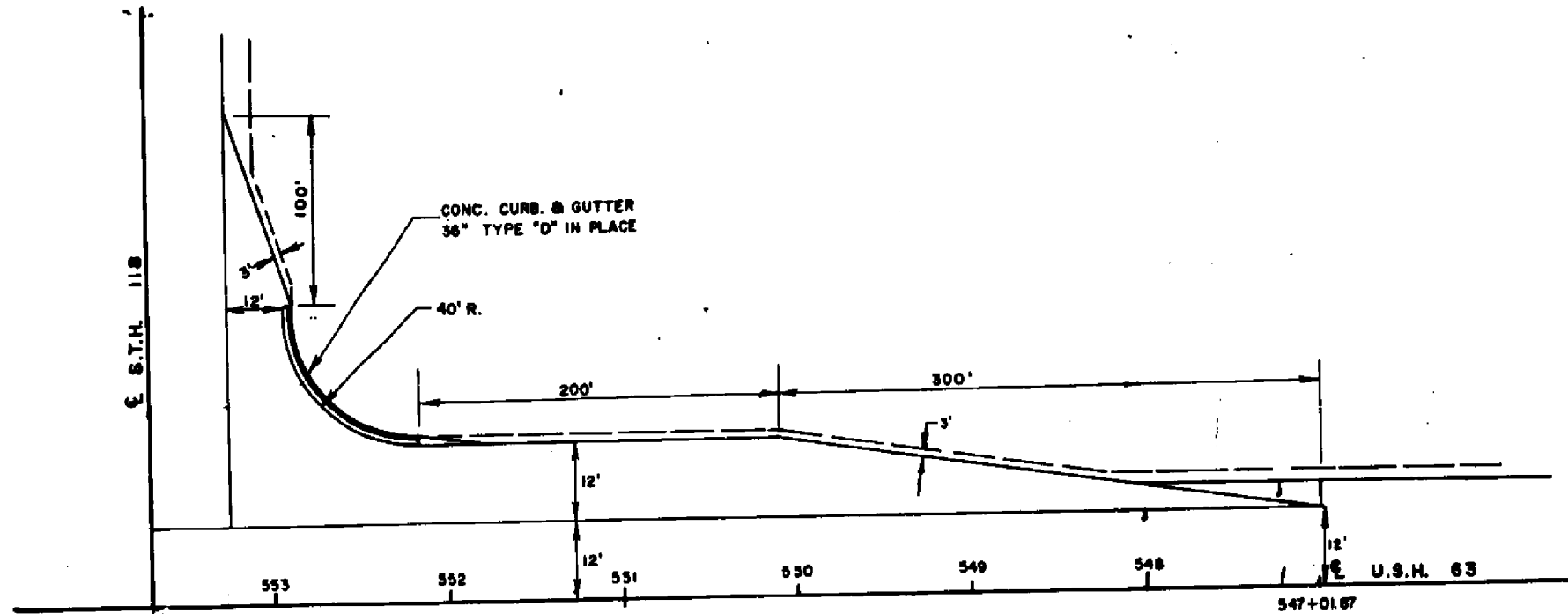


SIDE ROAD BITUMINOUS PAVING DETAIL

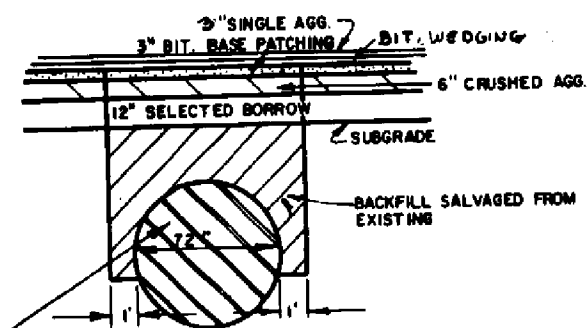


DETAIL OF BUTT JOINT
USE AT STA. 646+00
652+00

STATE PROJECT NUMBER	SHEET NO.
1560-03-72	2.3



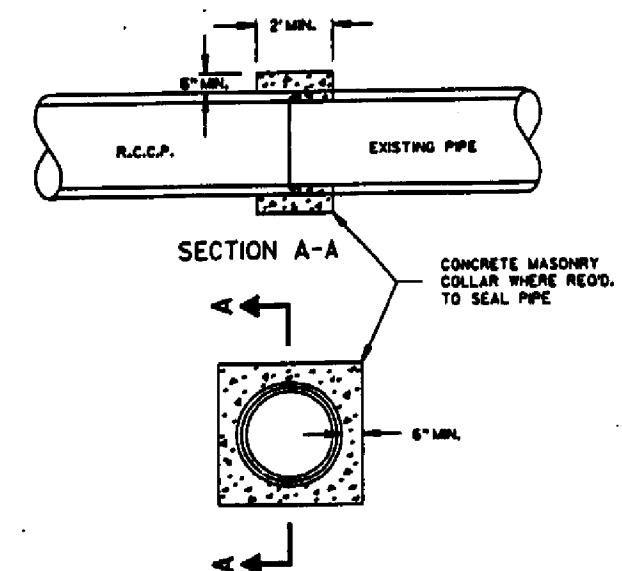
DETAIL FOR TURNING LANE



BACKFILL SHALL BE SURPLUS CLAY MATERIAL DESIGNATED AS WASTE FROM BYPASS AND SHALL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION.

BACKFILL VOLUMES CONSIDER ONLY VOLUME DISPLACED BY EXISTING PIPE. FILL SLOPES OUTSIDE OF THIS PIPE SHALL BE FILLED WITH SELECTED BORROW.

DETAIL FOR BITUMINOUS BASE PATCHING AND CULVERT PIPE BACKFILL
USE AT STA. 724+84



CONNECTION DETAIL - R.C.C.P. TO EXISTING PIPE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER.

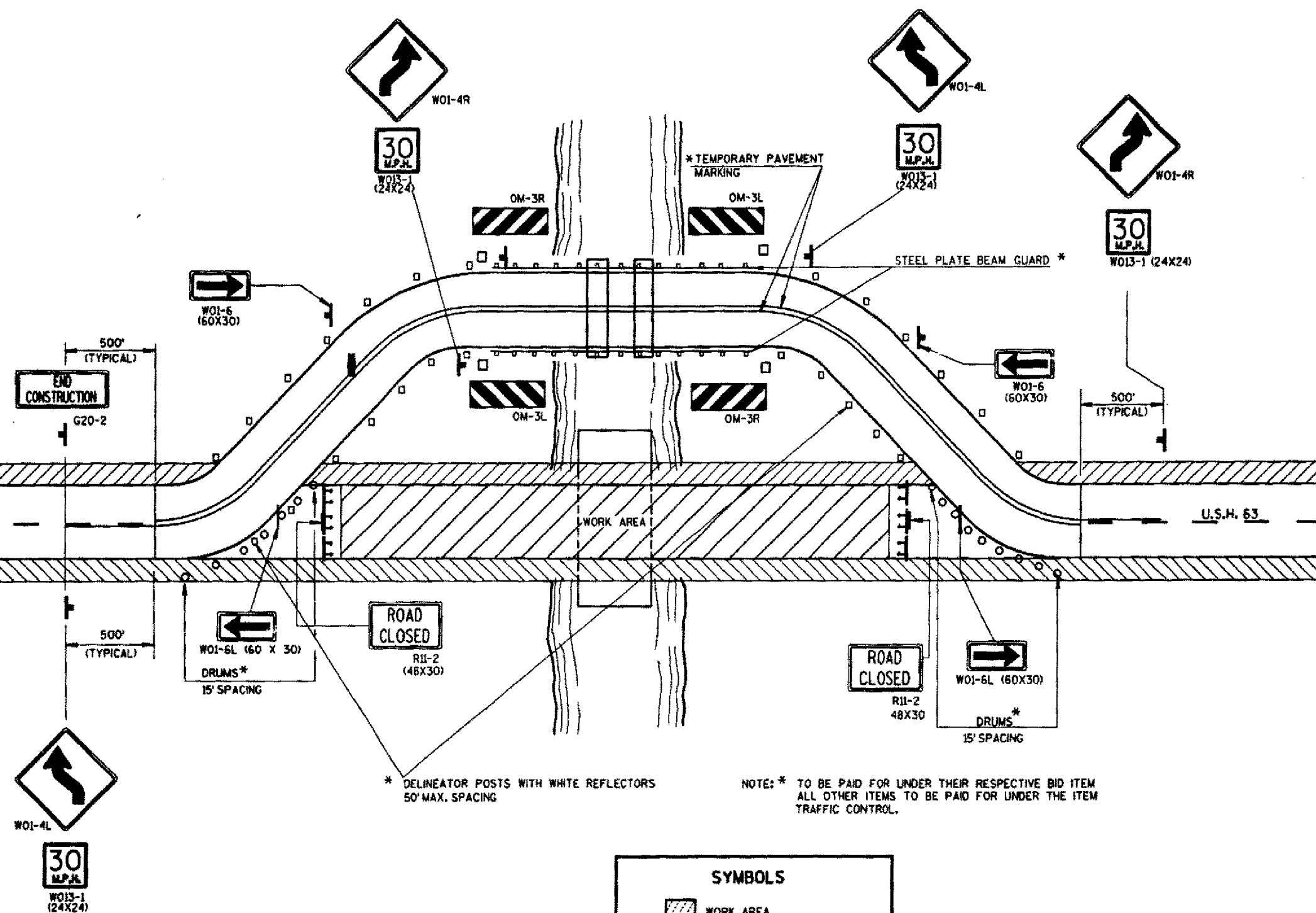
DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW-INTENSITY FLASHING) LIGHTS AND DEVICES USED TO DELINEATE A TRAVEL PATH SHALL BE EQUIPPED WITH TYPE "C" (STEADY BURN) LIGHTS.

DISPOSAL OF ALL REMOVED BEAM GUARD IS THE RESPONSIBILITY OF THE CONTRACTOR.

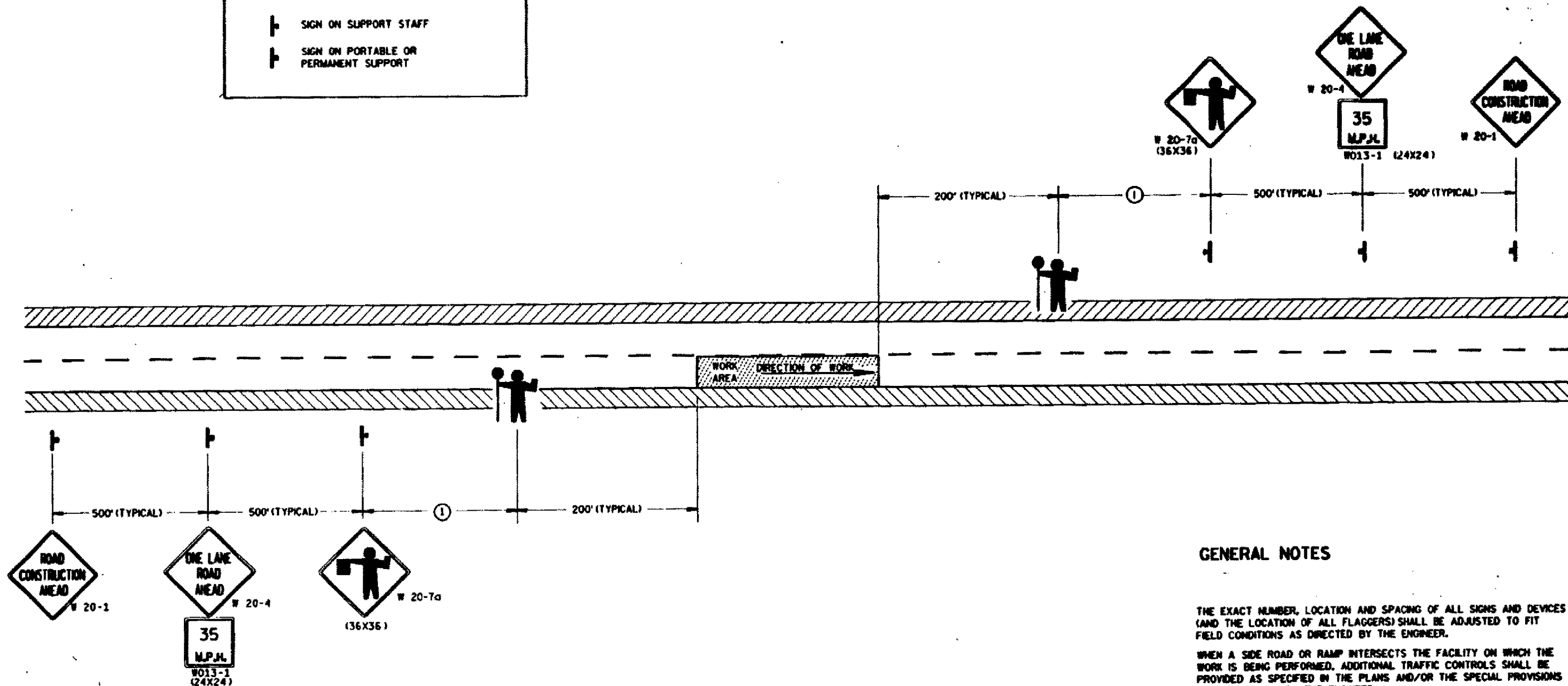
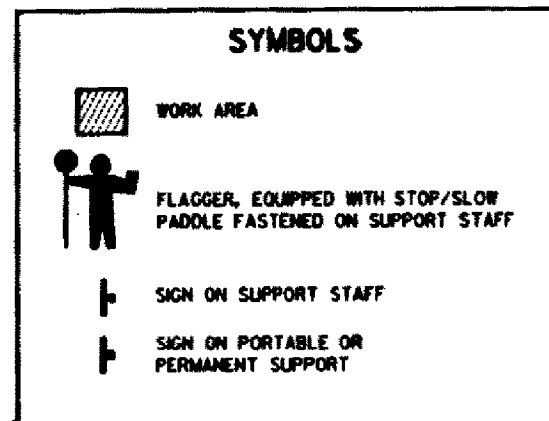
SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.



- WORK AREA
- NON-METALLIC DRUMS
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE



① W20-1, W20-4 AND W20-7a SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

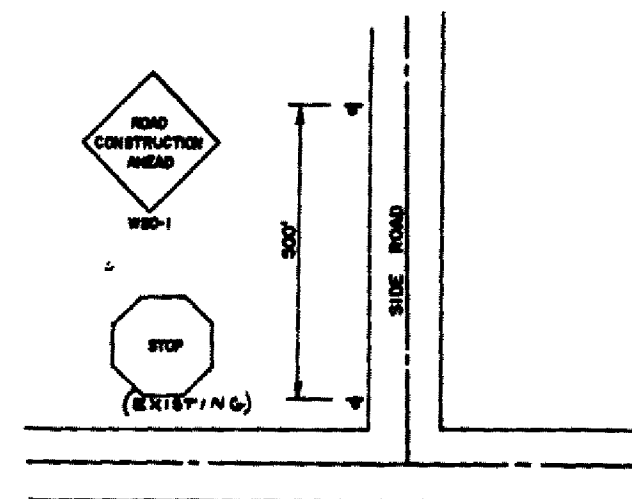
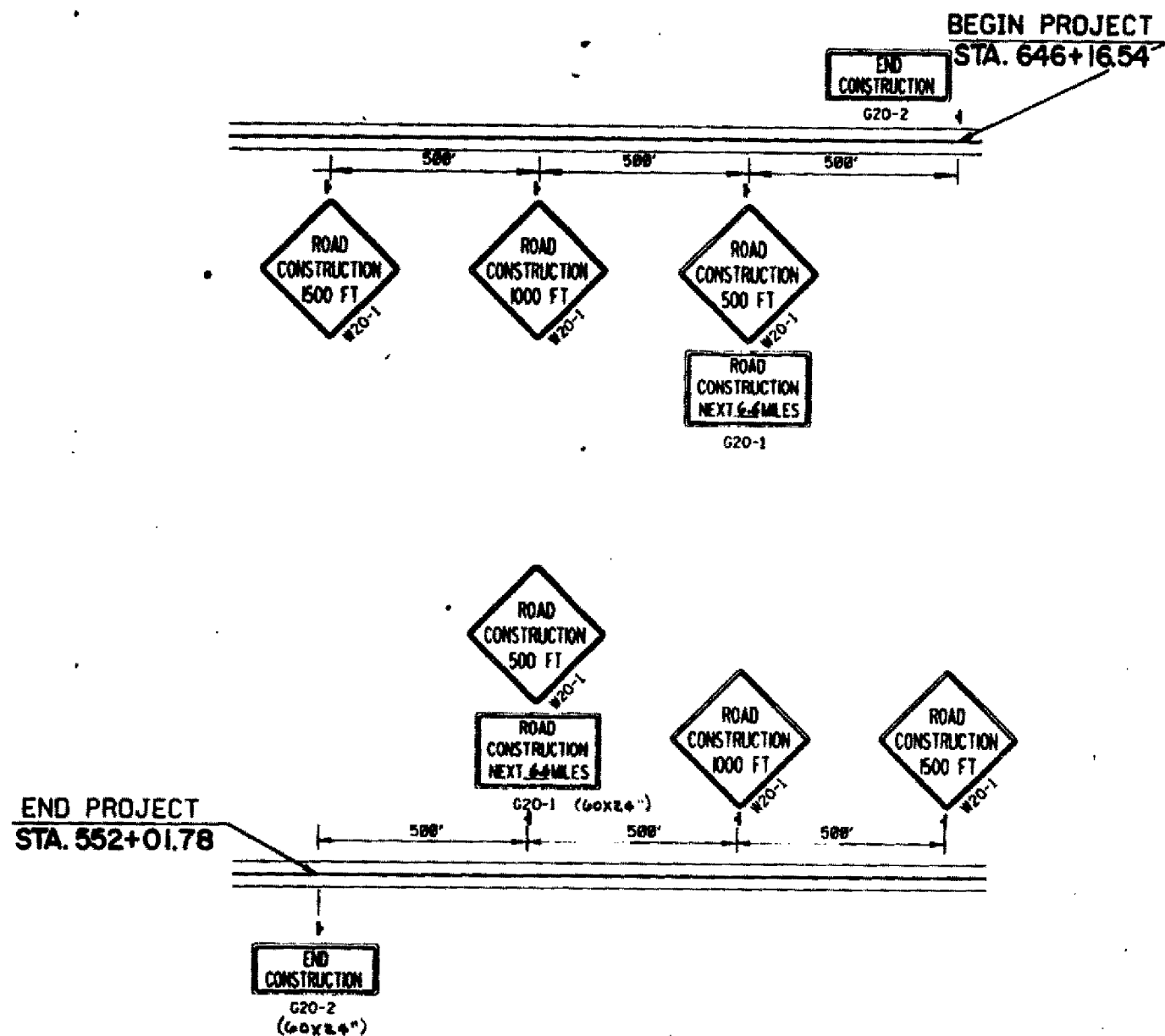
WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD CONSTRUCTION AHEAD" AND THE "ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE FACILITY RESTORED TO NORMAL OPERATION.

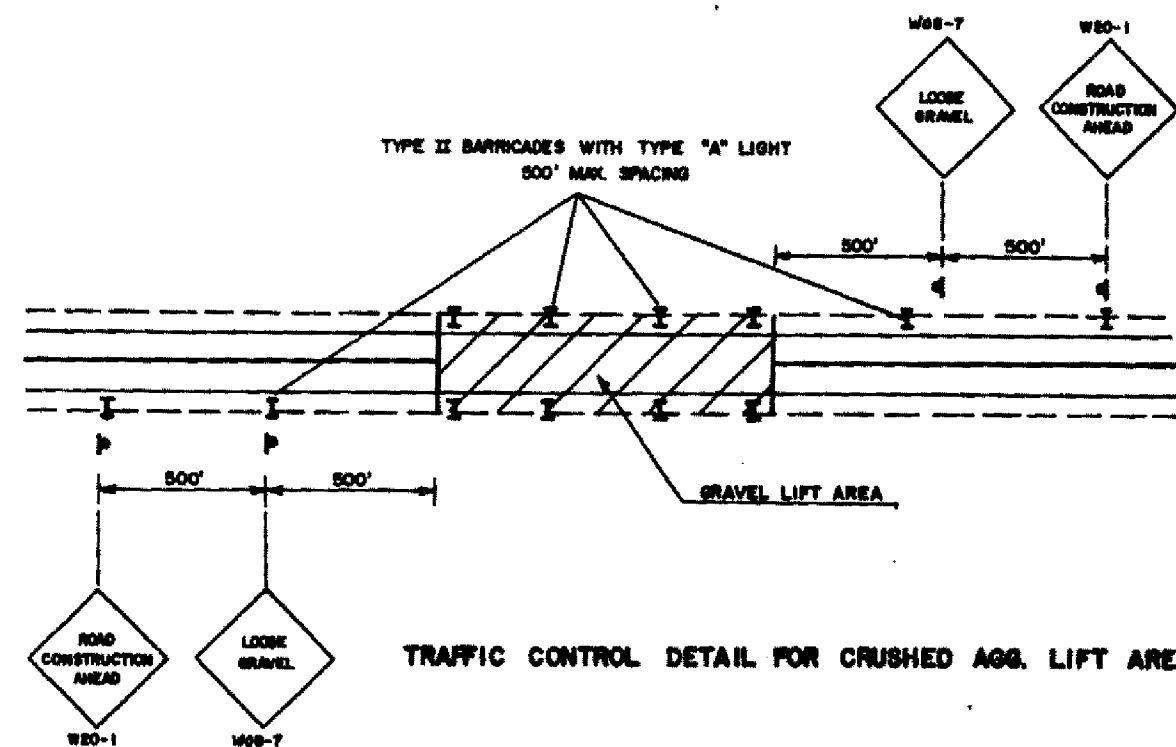
SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

"W" SIGNS ARE THE SAME AS "R" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.



TYPICAL SIDE ROAD DETAIL



TRAFFIC CONTROL DETAIL FOR CRUSHED AGG. LIFT AREAS

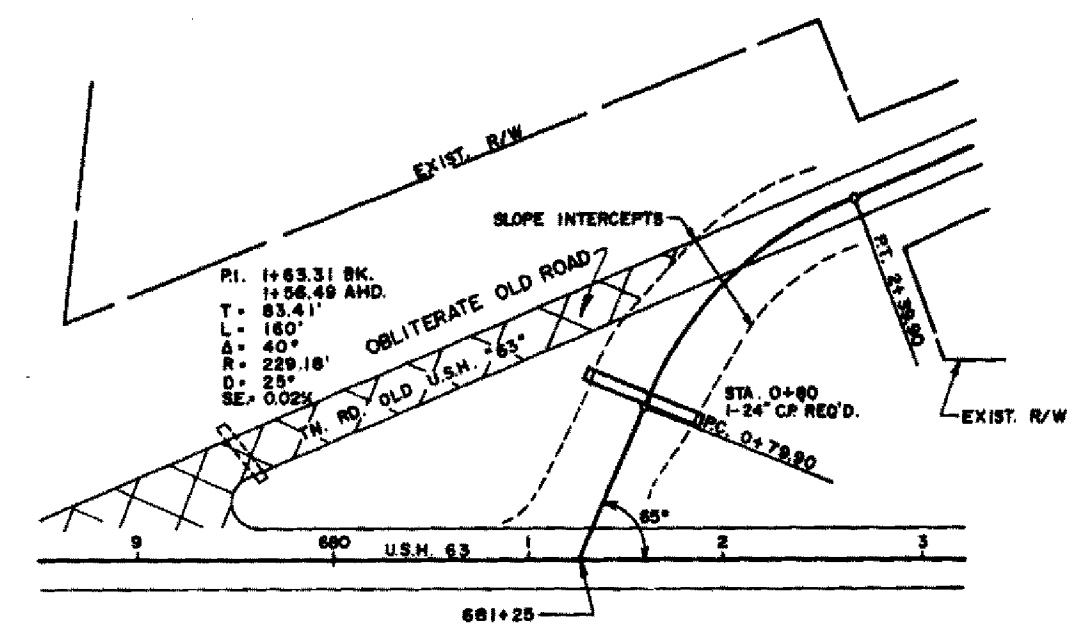
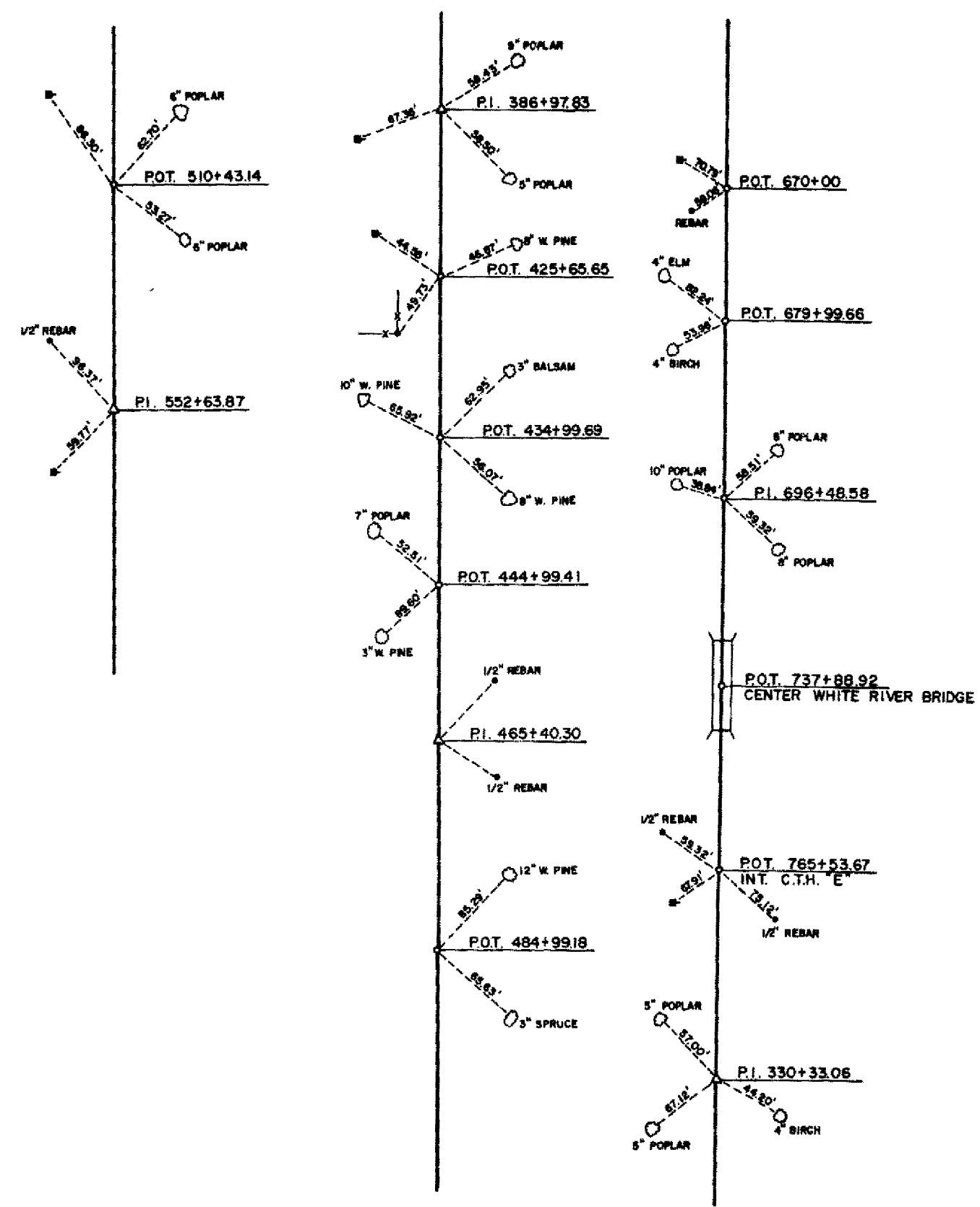
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY
ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

"W8" SIGNS ARE THE SAME AS "W" SIGNS
EXCEPT THE BACKGROUND IS ORANGE.

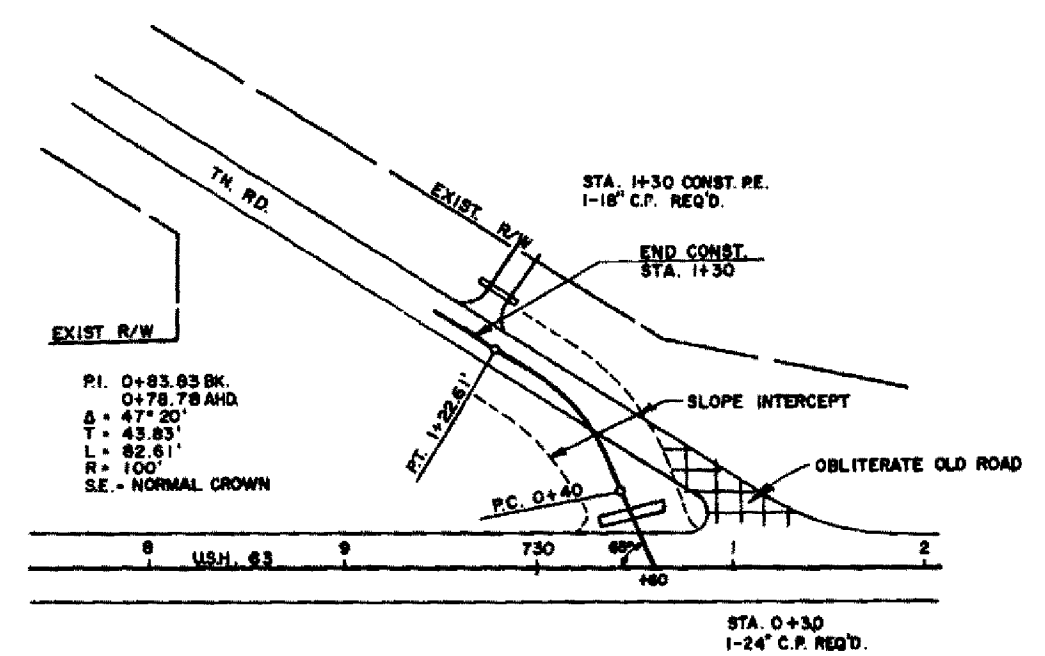
ALL SIGNS ARE 48" X 48"
UNLESS OTHERWISE NOTED

LEVELS ON - 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8, 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0, 6.2, 6.4, 6.6, 6.8, 7.0, 7.2, 7.4, 7.6, 7.8, 8.0, 8.2, 8.4, 8.6, 8.8, 9.0, 9.2, 9.4, 9.6, 9.8, 10.0

STATE PROJECT NUMBER	SHEET NO.
1560-03-72	2.7



DETAIL FOR TN. RD. CONNECTION
USE AT: STA. 681+25



DETAIL FOR TN. RD. CONNECTION
USE AT: STA. 730+60LT.

ESTIMATE OF QUANTITIES

DATE 01/13/88

PROJECT ID: 1560-03-72
BAYFIELD COUNTY
C.T.M. E - S.T.H. 118
U.S.H. 63

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1560-03-72 QUANTITY
20101	CLEARING	STA.	54.00	54.00
20104	GRUBBING	STA.	54.00	54.00
20301	REMOVING OLD CULVERT, STATION 724+84	L.S.	1.00	1.00
20302	REMOVING OLD CULVERT, STATION 439+19	L.S.	1.00	1.00
20411	REMOVING GUARDRAIL	L.F.	644.00	644.00
20503	UNCLASSIFIED EXCAVATION	C.Y.	16,525.00	16,525.00
20640	EXCAVATION FOR STRUCTURES, STRUCTURAL PLATE PIPE OR PIPE ARCHES, STATION 439+19	L.S.	1.00	1.00
20811	SELECTED BORROW EXCAVATION	C.Y.	37,530.00	37,530.00
21301	FINISHING ROADWAY	L.S.	1.00	1.00
21401	OBLITERATING OLD ROAD	STA.	2.70	2.70
30404	CRUSHED AGGREGATE BASE COURSE	TON	33,688.00	33,688.00
30810	BASE PATCHING, BITUMINOUS	S.Y.	24.00	24.00
40204	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	1,731.00	1,731.00
40501	BITUMINOUS MATERIAL FOR PLANT MIXES	TON	1,441.00	1,441.00
40607	SINGLE AGGREGATE BITUMINOUS PAVEMENT	TON	24,011.00	24,011.00
50409	CONCRETE MASONRY, ENDWALLS	C.Y.	38.00	38.00
52003	CULVERT PIPE, CLASS III, 18-INCH	L.F.	26.00	26.00
52005	CULVERT PIPE, CLASS III, 24-INCH	L.F.	86.00	86.00
52061	APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	2.00	2.00
52063	APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	EACH	4.00	4.00
52205	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 24-INCH	L.F.	38.00	38.00
52207	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 30-INCH	L.F.	22.00	22.00
52264	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	EACH	13.00	13.00

SHEET 3

DATE 01/15/88

ITEM ITEM DESCRIPTION UNIT TOTAL 1560-03-72
QUANTITY

52266 REINFORCED CONCRETE EACH 7.00 7.00
APRON ENDWALLS FOR
CULVERT PIPE,
30-INCH

52267 REINFORCED CONCRETE EACH 2.00 2.00
APRON ENDWALLS FOR
CULVERT PIPE,
36-INCH

52407 SALVAGED CULVERT L.F. 60.00 60.00
PIPE, 24-INCH

52409 SALVAGED CULVERT L.F. 52.00 52.00
PIPE, 30-INCH

52411 SALVAGED CULVERT L.F. 56.00 56.00
PIPE, 36-INCH

52706 STRUCTURAL PLATE L.F. 144.00 144.00
PIPE, 120-INCH

60170 CONCRETE CURB AND L.F. 320.00 320.00
GUTTER, 36-INCH,
TYPE D

60602 HEAVY RIPRAP C.Y. 128.00 128.00

61406 ANCHORAGES FOR EACH 4.00 4.00
STEEL PLATE BEAM
GUARD

61408 STEEL PLATE BEAM L.F. 644.00 644.00
GUARD, CLASS A

61801 MAINTENANCE AND L.S. 1.00 1.00
REPAIR OF HAUL
ROADS

61910 MOBILIZATION L.S. 1.00 1.00

62501 TOPSOIL S.Y. 4,197.00 4,197.00

62505 SALVAGED TOPSOIL S.Y. 101,644.00 101,644.00

62702 MULCHING S.Y. 105,841.00 105,841.00

62905 FERTILIZER, TYPE B CWT. 93.70 93.70

63002 SEEDING LB. 4,016.70 4,016.70

63301 DELINEATOR POSTS EACH 48.00 48.00

63305 DELINEATORS EACH 48.00 48.00

64202 FIELD OFFICE, TYPE L.S. 1.00 1.00
B

64210 FIELD LABORATORY L.S. 1.00 1.00

64301 TRAFFIC CONTROL L.S. 1.00 1.00

64406 PAVEMENT MARKING, L.F. 92,693.00 92,693.00
EPOXY, 4-INCH

64414 PAVEMENT MARKING, L.F. 200.00 200.00
CHANNELIZING, EPOXY,
8-INCH

64484 TEMPORARY PAVEMENT L.F. 8,880.00 8,880.00
MARKING

90001 TEMPORARY CULVERT L.S. 1.00 1.00
PIPE

90002 EXCAVATION FOR L.S. 1.00 1.00
STRUCTURES ENDWALL

90003 HIGH STRENGTH BAR LB. 2,100.00 2,100.00
STEEL REINFORCEMENT,
ENDWALLS

90004 GRADING AND SHAPING STA. 615.00 615.00
FOR SHOULDER BASE
COURSE

SHEET 3.1

DATE 01/15/88

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1560-03-72 QUANTITY
90312	REMOVING BITUMINOUS SURFACE BUTT JOINTS	S.Y.	72.00	72.00
90379	SINGLE AGGREGATE BITUMINOUS MIX	TON	515.00	515.00
90545	CONCRETE COLLARS	EACH	10.00	10.00
90582	GEOTEXTILE FABRIC, TYPE HR	S.Y.	130.00	130.00
90644	EROSION MAT, DELIVERED	S.Y.	1,956.00	1,956.00
90645	EROSION MAT, INSTALLED	S.Y.	1,956.00	1,956.00
90646	SILT FENCE, DELIVERED	L.F.	2,500.00	2,500.00
90647	SILT FENCE, INSTALLED	L.F.	2,500.00	2,500.00
90648	SILT FENCE MAINTENANCE	L.F.	2,500.00	2,500.00
90714	TRAFFIC CONTROL, NON-METALLIC DRUMS	DAYS	800.00	800.00
90999	ON THE JOB TRAINING	HRS.	250.00	250.00

SHEET 3.2

UNCLASSIFIED EXCAVATION		
STATION	LOCATION	C.Y.
681+25	TN. RD. LT.	24
724+84	MAINLINE	80
730+65	TN. RD. LT.	206
434+00-443+00	MAINLINE (WASTE)	731
547+76.87-552+01.78	TURN LANE & TAPER	549
10+00-21+69.26	BYPASS-(WASTE)	7192
	BYPASS-(RESTORE CUT AREAS)	7359

SALVAGED (& RESET) CULVERT PIPES					
STATION	TYPE	DIA.	LENGTH TO RESET	END WALLS	
			LT. RT.		
712+37	RCCP	36"	28'	28'	2
724+32	"	30"	20'	12'	2
382+75	"	30"	20'		1
399+96	"	24"	12'		1
431+29	"	24"	12'	20'	2
489+44	"	24"	8'	8'	2

CULVERT PIPE EXTENSIONS					ENDWALLS
STATION	TYPE	DIA.	LENGTH	EACH	
			LT. RT.		
724+32	RCCP	30"	4'	4'	2
382+75	"	30"	10'	4'	2
417+32	"	24"	-	6'	1
489+44	"	24"	4'	4'	2
499+62	"	24"	4'	6'	2
516+24	"	24"	4'	-	1
533+34	"	24"	6'	4'	2

TEMPORARY PAVEMENT MARKING		
MAINLINE	WHITE	4200 L.F.
BYPASS	YELLOW	2340
"	YELLOW	2340

PAVEMENT MARKING EPOXY, 4-INCH		
MAINLINE	WHITE	69,250 L.F.
	YELLOW	23,443

OLD ROAD OBLITERATION		
STATION	LOCATION	AMT.(STA.)
681+25	TN. RD. LT.	2.2
730+60	TN. RD. LT.	0.5

SIDE ROAD CULVERTS							
STATION	LOCATION	DIA.(IN.)	LENGTH	THICKNESS	RCCP CLASS	A.E.W.	
				STEEL ALUM.			
681+25	TN. RD. LT.	24	46	.064 .075	III	2	
730+60	TN. RD. LT.	24	40	.064 .075	III	2	
730+60	TN. RD. LT.	18	26	.064 .060	III	2	

DETAIL SUMMARY OF EARTHWORK QUANTITIES									
STATION	MAINLINE SELECTED BORROW(C.Y.)		STATION	FILL LT. & RT.		SELECTED BORROW LT. & RT.		WASTE	
	LT.	RT.		LT.	RT.	LT.	RT.	LT.	RT.
646+16.54	29	22	434+00	22	127	28		127	
647+00	90	85	435+00	10	183	12		183	
648+00	119	114	436+00	21	146	26		146	
649+00	110	108	437+00	146	75	183		75	
650+00	84	93	438+00	1410	40	1762		40	
651+00	89	104	439+00	3135	40	3919		40	
652+00	105	118	440+00	1410	40	1762		40	
653+00	104	127	441+00	413	40	516		40	
654+00	117	147	442+00	59	40	74		40	
655+00	113	149	443+00	106	99	132	124		
656+00	111	132	455+00						
657+00	111	94	475+00	840	798	1050	998		
658+00	99	90	547+76.87	98	151	549	123	189	549
659+00	103	106	552+01.78						
660+00	100	112	SIDE ROADS						
661+00	102	124	681+25LT.	1045	24	1276			
662+00	85	109	730+60LT.	125	206			50	
663+00	70	82	BYPASS						
664+00	79	68	10+00			7576	8252	7576	
665+00	49	41	21+69.26	6601					
666+00	15	13	REMOVE BYPASS						
667+00	26	91	10+00			7359			
673+00	20	45	21+69.26						
680+00			PIPE BACKFILL(FILL TO ORIGINAL GROUND)						
692+00	1809	2181	724+84	149	80	57			
732+90			439+19	4383	(4550)**	5478			
742+50	542	322							
766+01.67									
365+00	1234	766							
410+00	24	30							
411+00	30	37							
412+00	27	44							
413+00	15	34							
414+00	26	29							
415+00	14	21							
416+00	122	158							
434+00									

FILL VOLUMES ARE NOT ADJUSTED FOR SHRINKAGE
25% SHRINKAGE FACTOR APPLIED TO SELECT BORROW
VOLUMES.

** THIS YARDAGE IS
PAID AS "EXCAV. FOR
STRUCTURES, PLATE
PIPE"

MAINLINE CULVERTS					
STATION	DIA.(IN.)	LENGTH	TYPE	SHAPE	THICKNESS
		LIN.FT.			
439+19	120	144	SPP	Sq.ENDS	.168"

CONC.
MASSWAY
ENDWALLS
C.Y.
30

STATE PROJECT NUMBER	SHEET NO.
1560-03-72	34

TOPSOIL, SALVAGED TOPSOIL, MULCH, FERT. & SEED

STATION TO STATION	TOPSOIL S.Y.	SALV. TOPSOIL S.Y.	MULCH S.Y.	FERTILIZER CWT.	SEED LB.
646+16.54 - 672+00	151	6693	6844	7.8	334.8
672+00 - 692+00	-	4444	4444	4.2	180.0
674+00 - 692+00	-	2889	2889	2.7	117.0
692+00 - 732+90	1316	11916	12632	10.8	464.1
742+50 - 766+00	588	5056	5644	5.2	221.4
316+00 - 365+00	-	10889	10889	10.3	441.0
365+00 - 434+00	720	15528	16248	15.0	642.7
434+00 - 443+00	-	4845	4845	4.3	184.8
443+00 - 455+00	-	2756	2756	2.6	110.4
455+00 - 475+00	-	4444	4444	4.2	180.0
475+00 - 547+76.87	182	16657	16839	15.6	670.7
547+76.87 - 552+01.78	-	944	944	0.9	38.3
10+00 - 21+69.26(BYPASS - FOR TEMP. SLOPES)	-	3652	3652		
10+00 - 21+69.26 BYPASS 1240	-	11144	12384	9.4	400.9
681+25 TN RD. LT.	-	362	362	0.7	29.6
730+60 - TN RD. LT.	-	25	25	0.02	1.0

GRADING & SHAPING FOR SHOULDER BASE COURSE

STATION TO STATION	STA.
667+00-732+90	132
742+50-766+01.67	47
316+00-410+00	188
416+00-435+00	38
443+00-547+76.87	210

ANCHORAGES FOR STEEL PLATE BEAM GUARD

LOCATION	STATION	SIDE	EACH
BYPASS	14+66	LT. & RT.	2
BYPASS	17+88	LT. & RT.	2

CONCRETE CURB & GUTTER, 36", TYPE "D"

STATION	LOCATION	L.F.
676+53	CTH "E" RT.	167
765+80	CTH "E" LT.	153

CONCRETE COLLARS (UNDISTRIBUTED)

DIA. INCHES	EACH
24	6
30	3
36	1

PAVEMENT MARKING, EPOXY CHANNELIZING, 8-INCH

STATION TO STATION	LENGTH (L.F.)
550+01.78 - 552+01.78	200

* HEAVY
RIPRAP FROM THE TEMPORARY BYPASS MAY BE USED FOR
MAINLINE CULVERT STATION 439+19 IF FEASIBLE.

HEAVY RIPRAP & GEOTEXTILE FABRIC, TYPE HR				
STATION	LOCATION	LENGTH(L.F.)	HEAVY RIPRAP(C.Y.)	GEOTEXTILE FABRIC(S.Y.)
*439+19	LT. & RT.	20	64	130
*15+85 BYPASS	LT. & RT.	20	64	

CRUSHED AGGREGATE, BIT. SURFACE, ETC.

STATION TO STATION	LOCATION	BASE COURSE (TONS)	SHOULDER (TON)	SINGLE AGG. BIT. PAV'T. (TON)	SINGLE AGG. BIT. MIX (TON)
646+16.54-667+00	MAINLINE	5620	260	1146	
667+00-674+00	"	430	88	985	
674+00-679+00	"	1066	63	275	
679+00-692+00	"	676	152	716	
692+00-732+90	"	2511	511	2250	
742+50-766+01.67	"	1444	294	1293	
316+00-365+00	"	2548	573	2495	
365+00-410+00	"	2763	843	2475	
410+00-416+00	"	654	75	330	
416+00-434+00	"	1165	225	990	
434+00-443+00	"	1392	113	495	
443+00-455+00	"	739	150	660	
455+00-475+00	"	1040	233	1100	
475+00-547+76.87	"	4467	910	4002	
547+76.87-552+01.78	"	363	83	285	
10+00-21+69.26	BYPASS	1329	155		515
676+53	CTH"E" RT.	323		101	
681+25	TN. RD. LT.	133			
724+84	MAINLINE	15			
730+80	TN. RD. LT.	92		99	
765+80	CTH"E" LT.	100		250	
TN. RD. INTERSECTIONS UNDIST.		400		4465	
UNDIST. BIT. WDG/NG					

CLEARING & GRUBBING

STATION TO STATION	CLEARING STA.	GRUBBING STA.
646+16 - 667+00	9	9
667+00 - 674+00	0	0
674+00 - 680+00	0	0
692+00 - 732+90	18	18
742+00 - 766+00	2	2
365+00 - 410+00	11	11
410+00 - 416+00	0	0
416+00 - 434+00	6	6
434+00 - 443+00	8	8
443+00 - 455+00	0	0
475+00 - 547+76.87	0	0
547+86.87 - 552+01.78	0	0

STEEL PLATE BEAM GUARD, CLASS A & ANCHORAGES

LOCATION	STATION TO STATION	SIDE	LENGTH(L.F.)	EACH
BYPASS	14+66 - 17+88	LT.,RT.	644	4

REMOVING OLD CULVERTS

LOCATION	DESCRIPTION	EACH
724+84 MAINLINE	72"X84' R.C.C.P.	1
439+19 MAINLINE	8'X8'107' R.C. BOX	1

BITUMINOUS
BASE PATCHING

STATION	LOCATION	AMOUNT(S.Y.)
724+84	MAINLINE	24

REMOVING GUARDRAIL

LOCATION	STATION TO STATION	SIDE	LENGTH(L.F.)
BYPASS	14+66 - 17+88	LT.,RT.	644

CONCRETE MASONRY, ENDWALLS

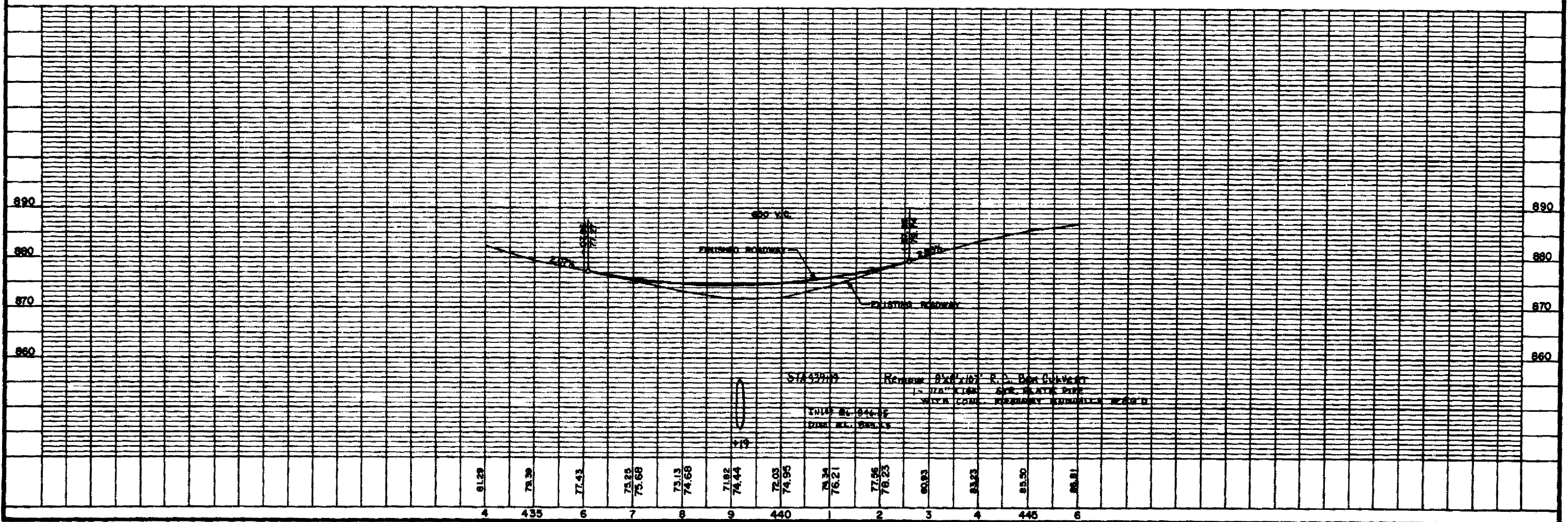
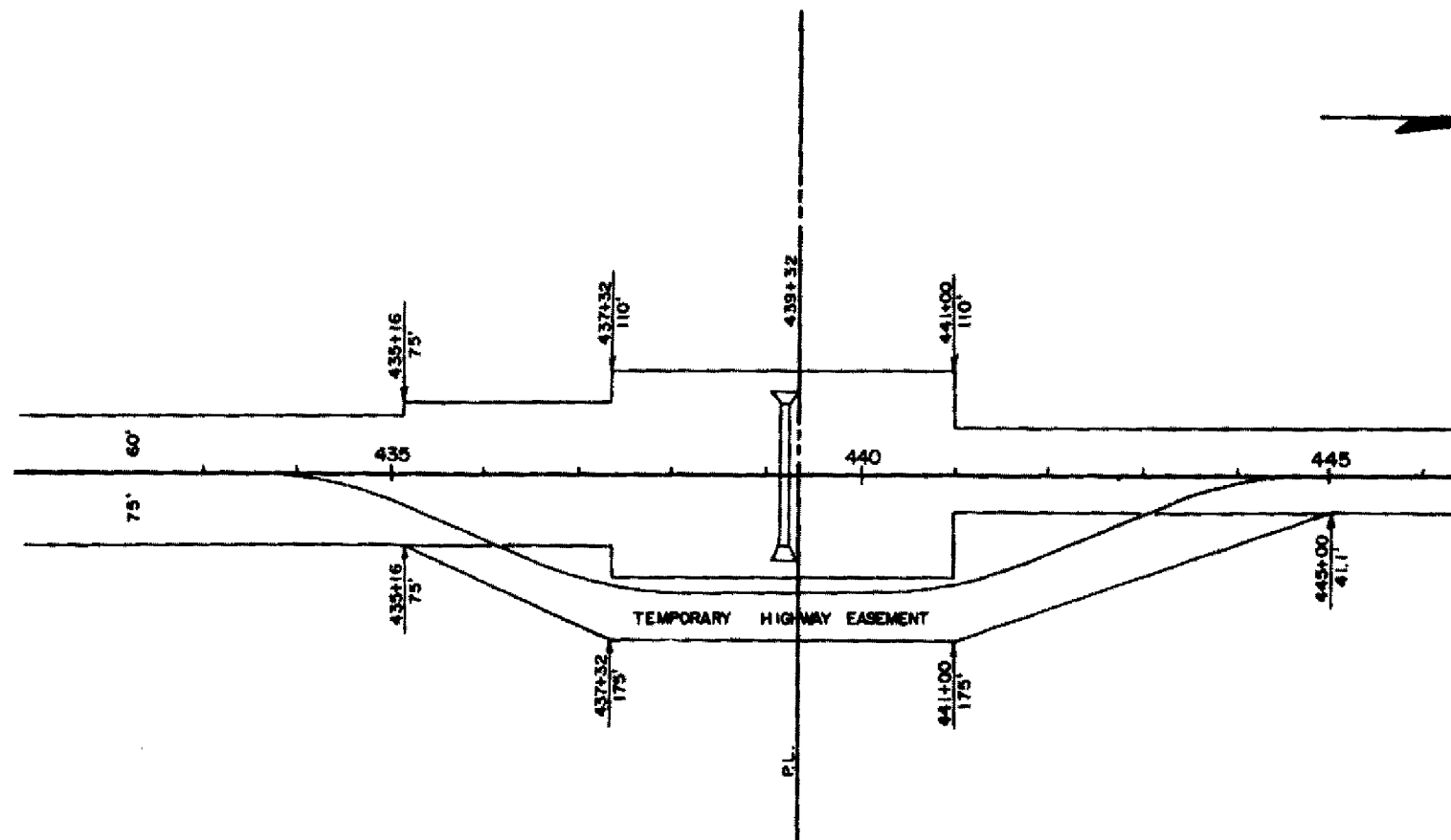
STATION	LOCATION	C.Y.
439+19	LT. & RT.	38

SILT FENCE; DELIVERED, INSTALLED & MAINTAINED

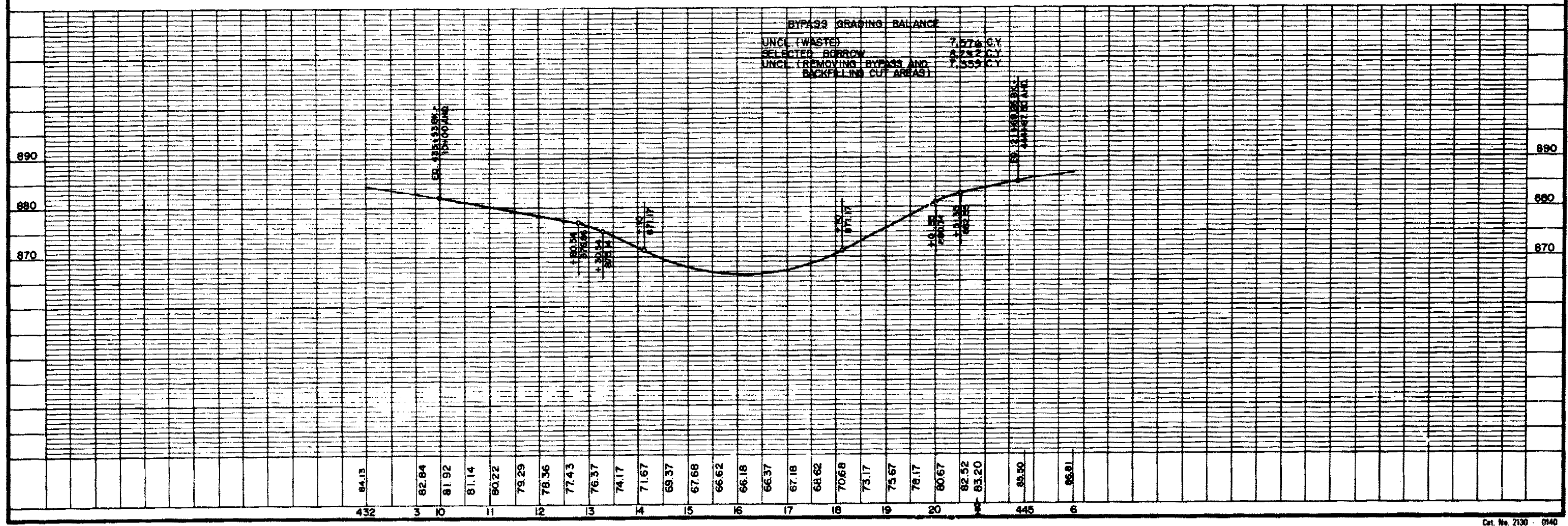
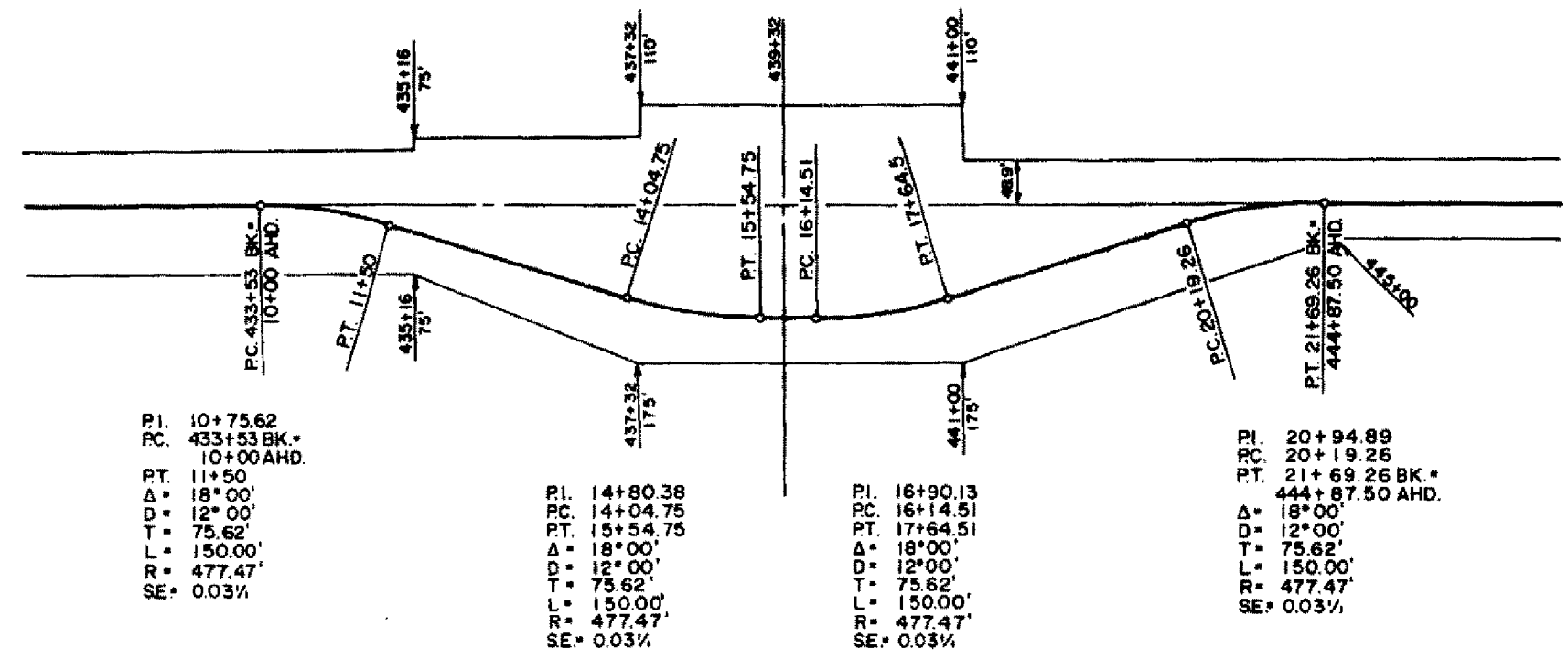
STATION TO STATION	LOCATION	L.F.
436+00 - 443+00	UNDISTRIBUTED	2500

EROSION MAT, DELIVERED & INSTALLED

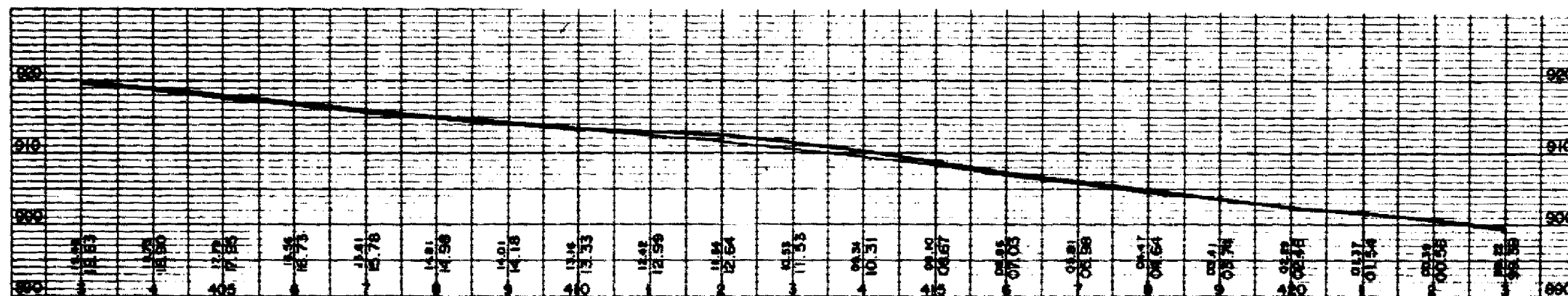
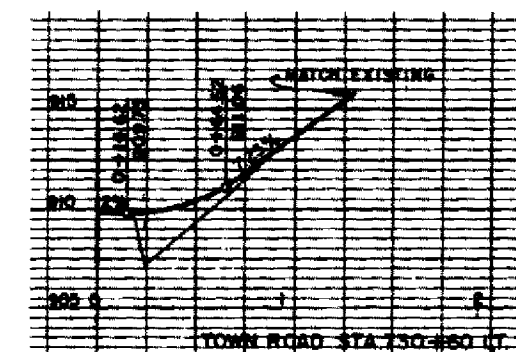
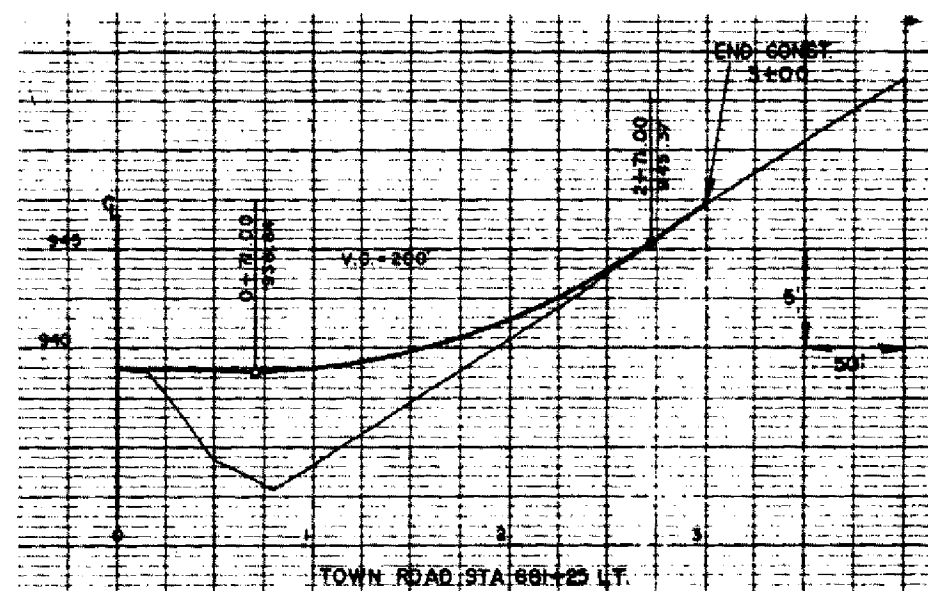
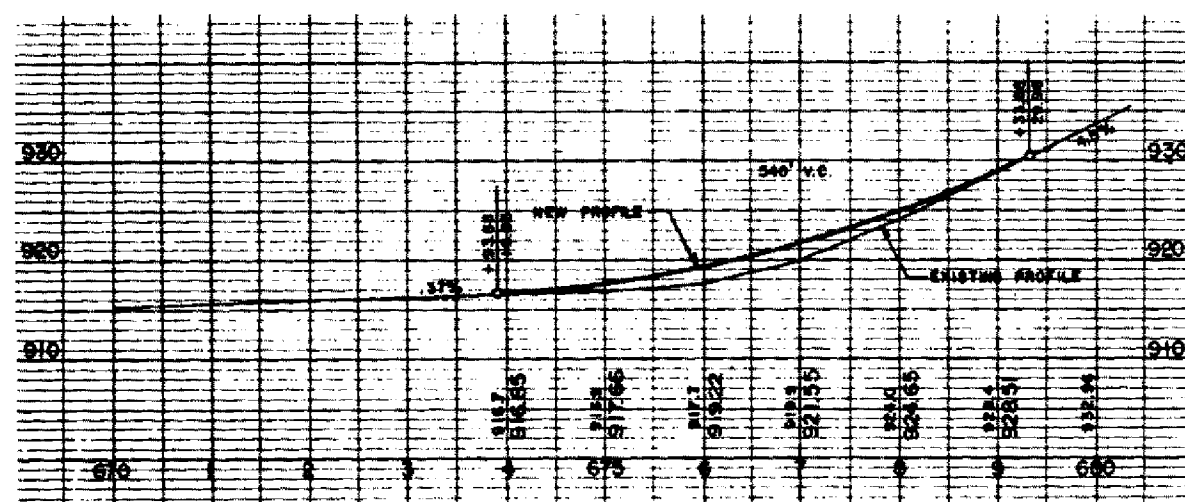
STATION TO STATION	LOCATION	S.Y.
433+00 - 445+00	LT.	978
433+00 - 445+00	RT.	978



STATE PROJECT NUMBER	SHEET NO.
1560-03-72	81
TEMP. ROADWAY	



Profile view of Bridge No. 4-1 on a grid. The vertical axis shows elevation from 900 to 920 feet. The horizontal axis shows stationing from 0+00 to 1+50. The bridge structure is shown as a series of points connected by a line, with a peak elevation of 910.47 feet at station 0+42.192. The bridge is labeled "BRIDGE NO. 4-1" and "2-24' X 6-1/2' SPANS - 24' R/WY". A 400' V.E. (Vertical Elevation) is indicated at the top right.



ORIGIN OF LEVELS
B.M.
USGS DATUM ELEV. 967.941
STAMPED K-42
2 MI. NORTH OF BIBBON, 1 POLE
SOUTH OF MILEPOST 145.40' EAST OF TRACK.

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
39		S. END OF E. CURB, BIBBON CR. BR.	910.30
40	656+70	60' RT, 12" ASPEN	908.43
41	673+95	100' RT, SW COR. PUMP ISL	915.87
42	687+50	50' RT, 8" ASPEN	969.74

STATE PROJECT NUMBER	SHEET NO.
1560-03-72	53

BEGIN PROJECT 1560-03-72
STA. 646+16.54

NET & LENGTH STA. 646+16.54 - STA. 692+00 = 4583.46 L.F.

P.I. 697+19.1
Δ = 2° - 00' LT.
D = 1° 00'
T = 10001'
L = 200.00'
R = 5729.58'

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
43	700+95	50' RT, 18" WHITE BIRCH	969.57
44	710+60	75' RT, 12" ASPEN	940.66
45	725+80	70' LT, 8" ASPEN	914.88
46	738+60	60' LT, 6" ASH	857.43

EXCEPTION TO NET & LENGTH
STA. 732+90 - STA. 742+50

NET & LENGTH STA. 692+00 - STA. 732+90, STA. 742+50 - STA. 752+00 = 5,040 L.F.

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
47	752+35	55' LT, 8" ASPEN	920.52
48	766+60	150' LT, SO. END PUMP	952.27
49	320+95	40' RT, 18" ELM	962.00
50	333+00	75' LT, 30" ASPEN	988.15
51	347+75	100' RT, 24" RED PINE	961.67

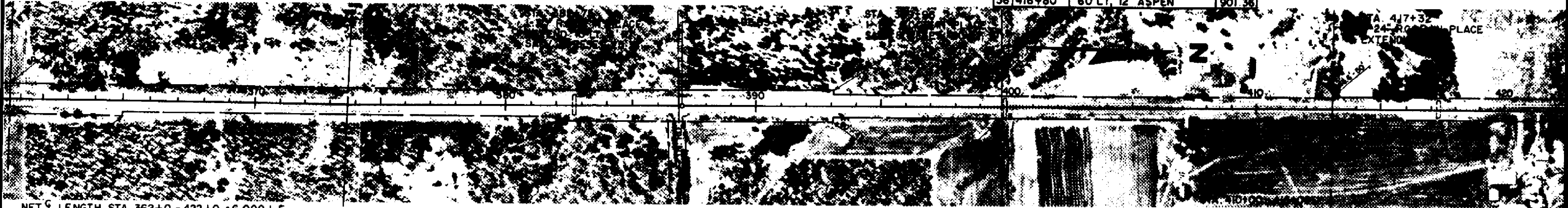
CONTRACT TYPE B INTERSECTION
INSTALL CURB & GUTTER
36" TYPE "D" (REQ'D. RADII)

POT. 765+53.67

NET & LENGTH STA. 752+00 - STA. 362+00 = 6001.67 L.F.

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
52	365+40	90' RT, 15' ASPEN	962.03
53	378+15	75' RT, 8" ASPEN	961.42
54	386+70	55' LT, 10" ASPEN	959.21
55	398+60	40' LT, 8" ASPEN	926.00
56	416+80	60' LT, 12" ASPEN	901.36

STATE PROJECT NUMBER	SHEET NO.
1560-03-72	54

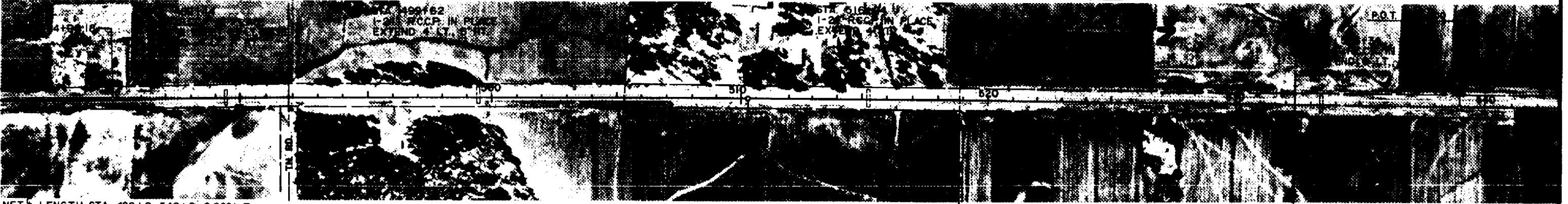


STA. 439+19
1-8' X 8' BOX CULVERT TO
BE REMOVED
1-120" S.P.P. TO
BE PLACED

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
57	437+60	60' LT, 5" ASPEN	875.89
58	455+65	60' RT, 5" ASPEN	874.35
59	466+25	100' RT, POWER POLE	878.41
60	474+80	60' LT, 24" WILLOW	882.16



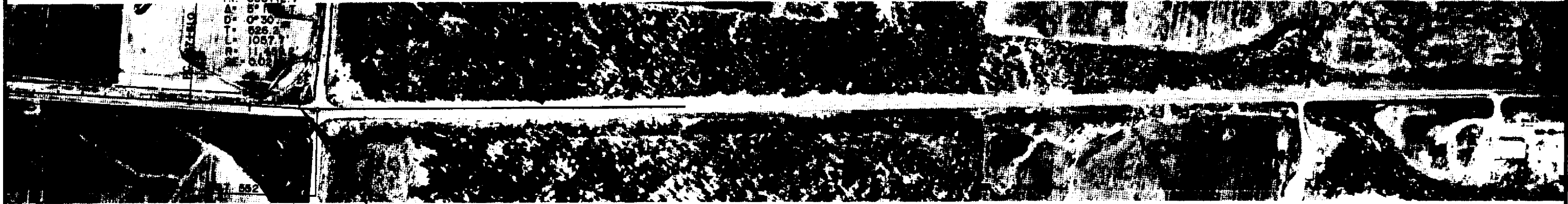
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
61	492+75	70' RT, 20" WHITE PINE	891.04
62	506+65	65' LT, 18" ASPEN	901.32
63	517+35	55' LT, 10" BLACK ASH	901.64
64	531+90	60' RT, 20" RED PINE	908.32



BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
65	551+85	135' LT., 8" ASPEN	900.50

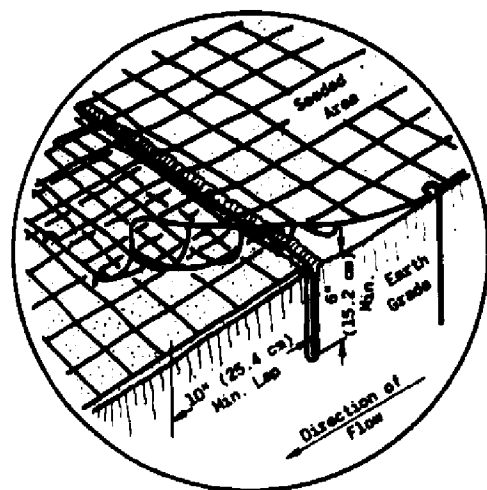
STATE PROJECT NUMBER	SHEET NO.
1560-03-72	5.5

PI. 552+87.2
PC. 547+61.0
PT. 558+12.7
A= 5° 11' 11"
D= 0° 30' 00"
T= 526.2
L= 1057.1
R= 11.45
SE= 0.03

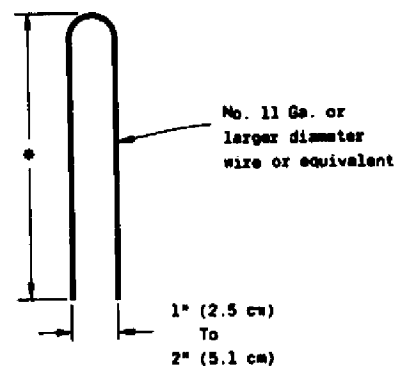
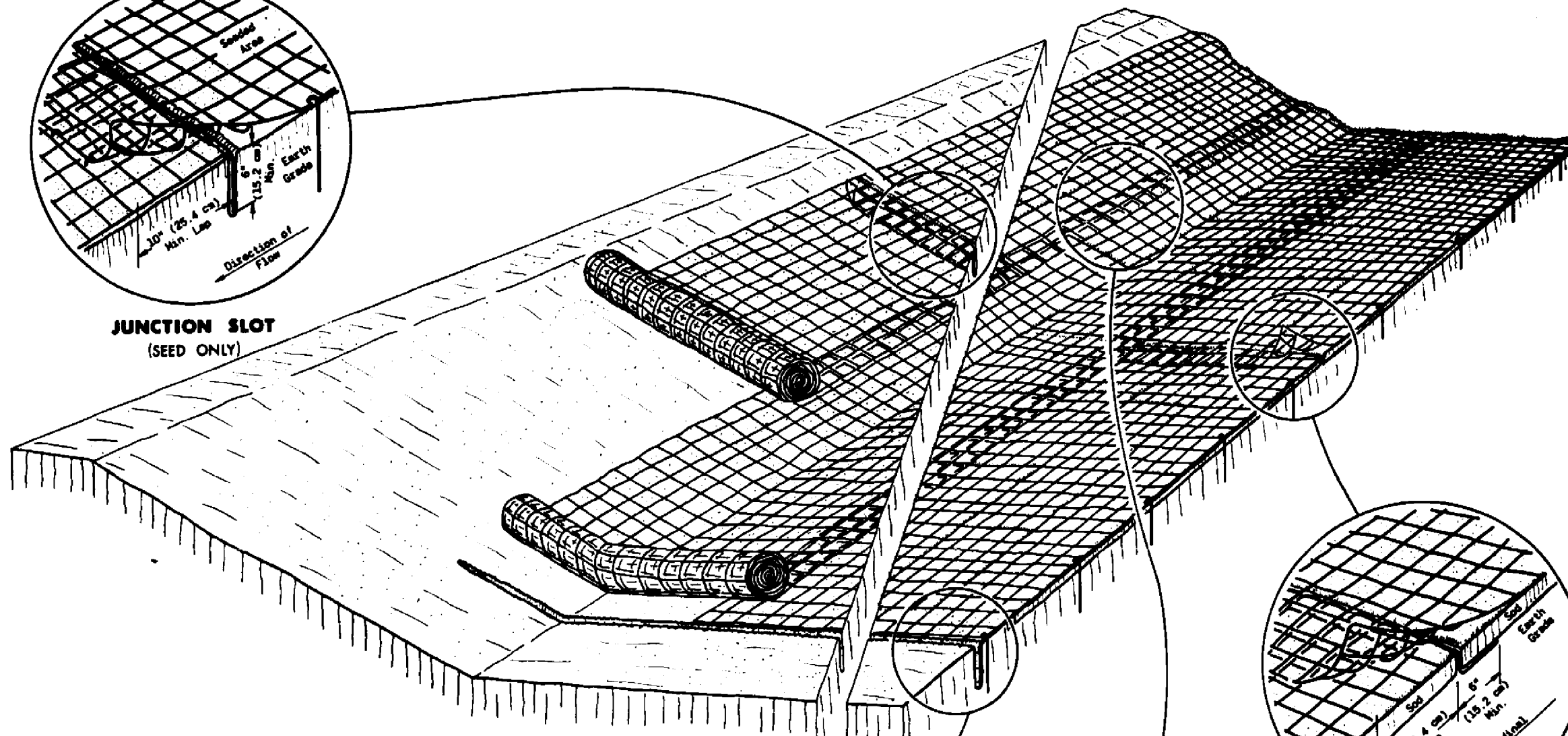


NET LENGTH STA. 542+00-552+01.78= 1001.78 L.F.

END PROJECT 1560-03-72
STA. 552+01.78

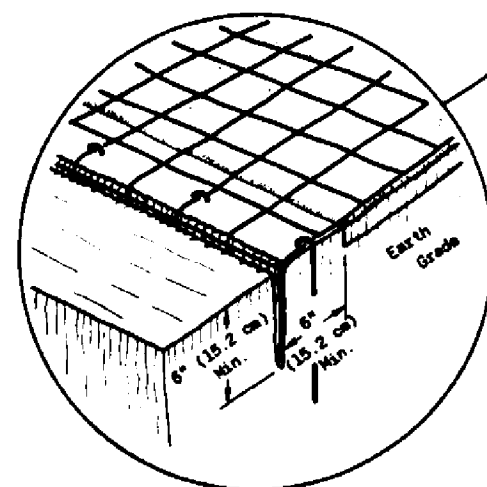


**JUNCTION SLOT
(SEED ONLY)**

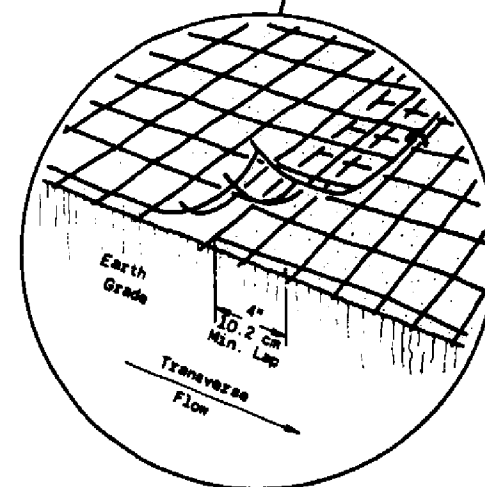


**DETAIL OF
TYPICAL STAPLE**

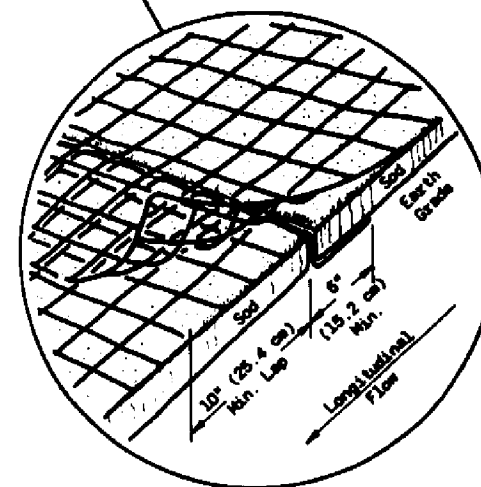
- * 6" (15.2 cm) Min. for firm soils
- 12" (30.5 cm) Min. for loose soils
- 8" (20.3 cm) Min. where both sod and mats are being used.



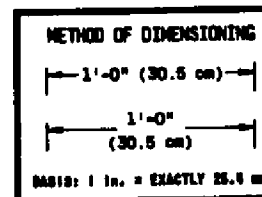
**ANCHOR SLOT
AT BEGINNING AND END OF EROSION MAT
(SEED AND SOD)**



**LAP JOINT
(SEED AND SOD)**



**JUNCTION SLOT
(SOD ONLY)**



GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Variations in the dimensions or materials shown herein shall be permitted if they provide equivalent protection and material strength and if prior approval of the Engineer is obtained.

Lap Joints shall not be placed in the bottom of V-shaped ditches.

Junction Slots on adjacent strips of Matting shall be staggered a minimum of 4 feet (1.219 m) apart.

Edges of the Erosion Mat shall be impressed in the soil.

Erosion Mat shall be measured and paid for in accordance with the Standard Specifications.

EROSION MAT OVER SOD

- a. Only Jute Fabric will be permitted over sod.
- b. Wood Stakes for Sod may be omitted by the Engineer if the existing slope and soil conditions so warrant.
- c. The width of Erosion Mat shall always equal the Sod width.
- d. Sod strips may be placed either longitudinally or transversely to the flow line of the Ditch.

EROSION MAT OVER SEEDING

Junction or Anchor Slots shall be at minimum intervals of 100 feet (30.48 m) on grades up to and including 3 percent, and 50 feet (15.24 m) on grades exceeding 3 percent.

EROSION MAT

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL

12-3-73

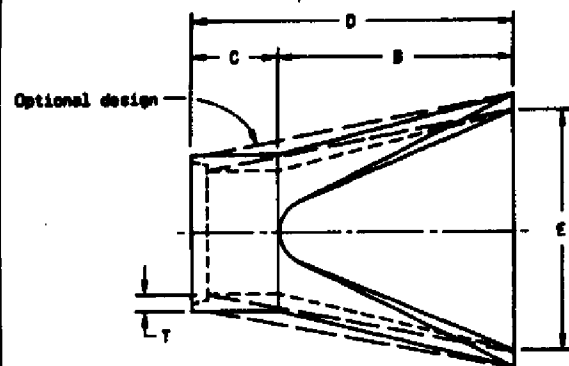
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APPROVED

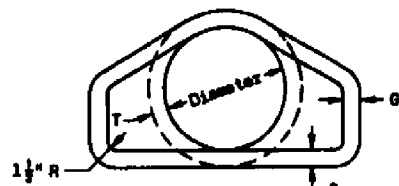
1-15-74

DATE

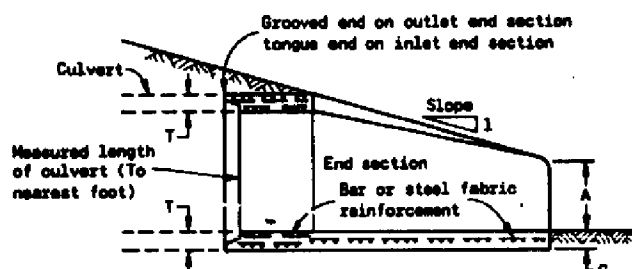
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CHIEF OF FACILITIES DEVELOPMENT
[Signature]
DISTRICT ENGINEER



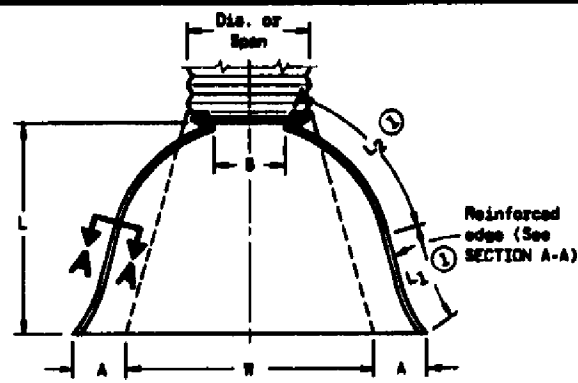
PLAN



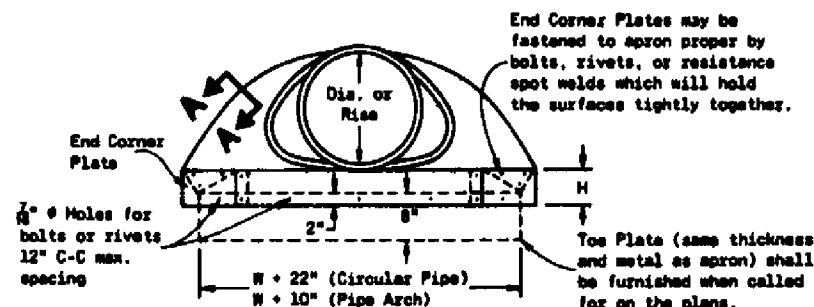
END VIEW



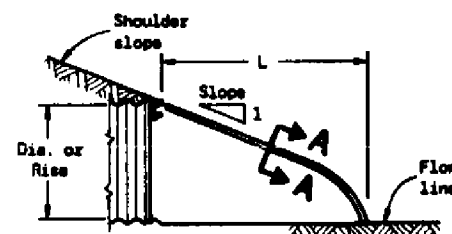
LONGITUDINAL SECTION



PLAN

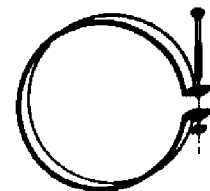


END VIEW

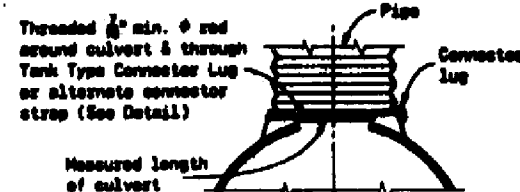


SIDE ELEVATION

1" Wide, 12 Ga. (0.108" thick) galvanized strap with standard 6" x 1/2" band bolt and nut.

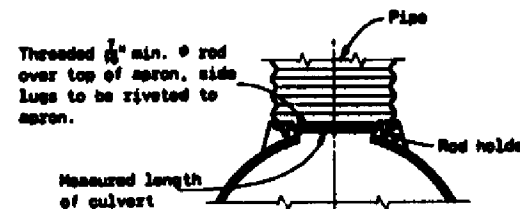


Alternate for Type 1 Connection
END SECTION CONNECTOR STRAP



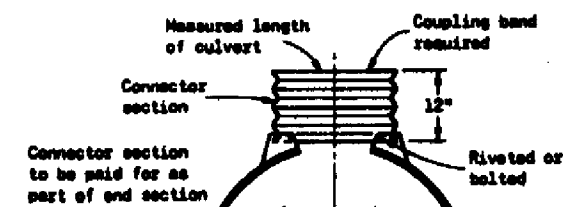
TYPE 1

For 12" thru 24" only (Circular pipe)



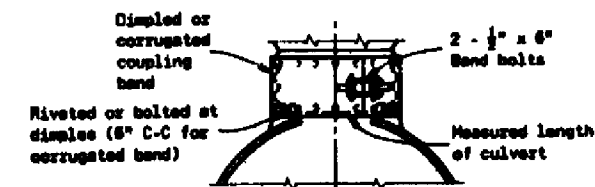
TYPE 2

For 30" & 36" only (Circular pipe)
For 17"x13" thru 57"x36" only (Pipe arch)



TYPE 3

For 42" thru 84" only (Circular pipe)
For 64"x43" & 71"x47" (Pipe arch)

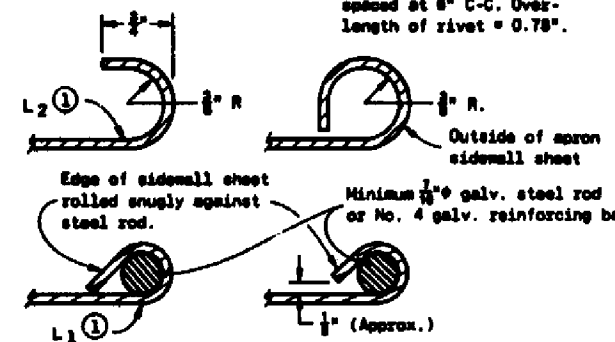
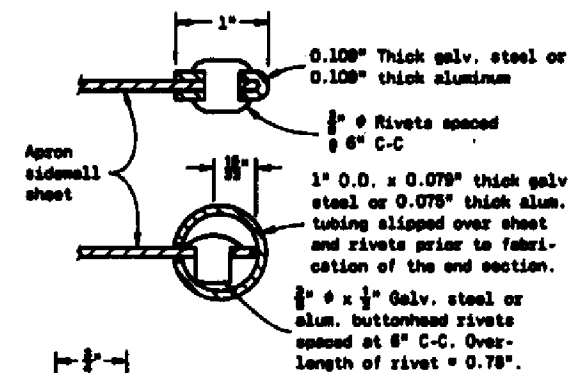


TYPE 6

Alternate for:

All sizes corrugated circular pipe & pipe arches

NOTE: Dimpled band fits over outside of endwall, and corrugated band fits inside endwall. Dimpled band may be used with helically corrugated pipe.



SECTION A-A

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Variations of the dimensions and designs shown hereon will be permitted providing equivalent capacity and structural integrity are attained, and prior approval of the Engineer is obtained.

Concrete culvert endwalls may not be used with galvanized steel or aluminum culvert pipe or vice versa.

Galvanized steel or aluminum endwalls shall normally be installed on culvert pipe of the same metal. The use of galvanized steel endwalls on aluminum pipes is permitted, provided the two metals at the joint interface are kept separated by a suitable insulating material approximately 1/8" thick or greater. Such material would be an asphalt impregnated fabric, a sheet plastic, a rubber gasket or other non-degradable material of substantial strength.

When two or more pipe arches with apron endwalls are to be laid adjacent to each other, they shall be separated by the following amount:

PIPES: Total width of apron endwall less the diameter of pipe plus 6 inches.

PIPE ARCHES: Total width of apron endwall less the span dimension of the pipe arch plus 6 inches.

① A combination of steel rod rolled into edge sidewall (L1), and 180° roll on edge of sidewall (L2), is permitted for metal apron endwalls up to 60" diameter for circular pipe, and 77" x 52" for pipe arches.

PIPE DIA. (in.)	APPROX. WEIGHT PER SECTION	DIMENSIONS (inches)							APPROX. SLOPE
T	A	B	C	D	E	G			
12	530	2	4	24	48 1/2	72 1/2	24	2	3 to 1
15	740	2 1/2	6	27	46	73	30	2 1/2	
18	990	2 1/2	9	27	46	73	36	2 1/2	
21	1,280	2 1/2	9	36	37 1/2	73 1/2	42	2 1/2	
24	1,520	3	9 1/2	43 1/2	30	73 1/2	48	3	
27	1,930	3 1/2	10 1/2	49 1/2	24	73 1/2	54	3 1/2	
30	2,190	3 1/2	12	54	19 1/2	73 1/2	60	3 1/2	
36	4,100	4	15	63	34 1/2	97 1/2	72	4	
42	5,380	4 1/2	21	63	35	96	78	4 1/2	
48	6,550	5	24	72	26	96	84	5	3 to 1
54	8,040	5 1/2	27	65	33 1/2 - 35	98 1/2 - 100	90	5	2 1/2 to 1
60	8,730	6	30 - 35	60	39	99	96	5	2 to 1
66	10,630	6 1/2	30 - 35	72 - 78	21 - 27		102	5 1/2	
72	12,520	7	30 - 35	78	21		108	6	
78	14,430	7 1/2	30 - 35	78	21	99	114	6 1/2	2 to 1
84	18,160	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1

* Minimum ** Maximum

REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (in.)	MIN. THICKNESS (inches)		DIMENSIONS (inches)							APPROX SLOPE
			A	B	H	L	L ₁	L ₂	W	
	STEEL	ALUM.	± 1"	MAX.	± 1"	± 1½"	①	①	± 2"	
12	0.064	0.080	6	6	6	21	12	17½	24	2½ to 1
15	↑	↑	7	8	↑	26	14	21½	30	↑
18	↑	↑	8	10	↑	31	15	26½	36	↑
21	↑	0.080	9	12	↑	36	18	29½	42	↑
24	0.064	0.075	10	13	6	41	18	37½	48	↑
30	0.079	0.075	12	16	8	51	18	52½	60	↑
36	0.079	0.105	14	19	9	60	24	59½	72	↑
42	0.109	0.105	16	22	11	69	24	76½	84	2½ to 1
48	↑	0.135	18	27	12	78	24	81	90	2½ to 1
54	↑	0.135	↑	30	↑	84	30	85½	102	2 to 1
60	↑	0.164	↑	33	↑	87	-	-	114	1½ to 1
66	↑	↑	↑	36	↑	87	-	-	120	1½ to 1
72	↑	↑	↑	39	↑	87	-	-	126	1½ to 1
78	↑	↑	↑	42	↑	87	-	-	132	1½ to 1
84	0.109	0.164	18	45	12	87	-	-	138	1½ to 1

NOTE: All splices to be lap riveted or bolted.

METAL APRON ENDWALLS FOR CIRCULAR PIPE

NOTE: I

PIPE-ARCH DIMENSIONS (Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE
				A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	L ₁ ①	L ₂ ①	W ± 2"	
SPAN	RISE	STEEL	ALUM.								
17	13	0.064	0.060	7	9	6	19	14	16	30	2 1/2 to 1
21	15		0.080	7	10		23	14	19 1/2	36	
24	18		0.080	8	12		28	18	21 1/2	42	
28	20	0.064	0.075	9	14		32	18	27 1/2	48	
35	24	0.079	0.075	10	16	6	39	18	37 1/2	60	
42	29	0.079	0.105	12	18	8	46	24	45 1/2	75	
49	33	0.109	0.105	13	21	9	53		54 1/2	85	
57	38		0.135	18	26	12	63		68	90	2 1/2 to 1
64	43		0.135		30		70	24	72 1/2	102	2 1/2 to 1
71	47		0.164		33		77	30	82 1/2	114	2 1/2 to 1
77	52		0.164		36		77	—	—	126	2 to 1
83	57	0.109	0.164	18	39	12	77	—	—	138	2 to 1

NOTE: All splices to be lap riveted or bolted.

METAL APRON ENDWALLS FOR PIPE ARCHES

CONNECTION DETAILS

CIRCULAR PIPE

For circumferentially corrugated pipe use Endwall Connection Details 1, 2, 3 or 5 as applicable.

For helically corrugated pipe use Endwall Connection Details 1, 2 or 5.

For helically corrugated pipes with two circumferential corrugations at each end use Endwall Connection Details 1, 2 or 3.

PIPE ARCH

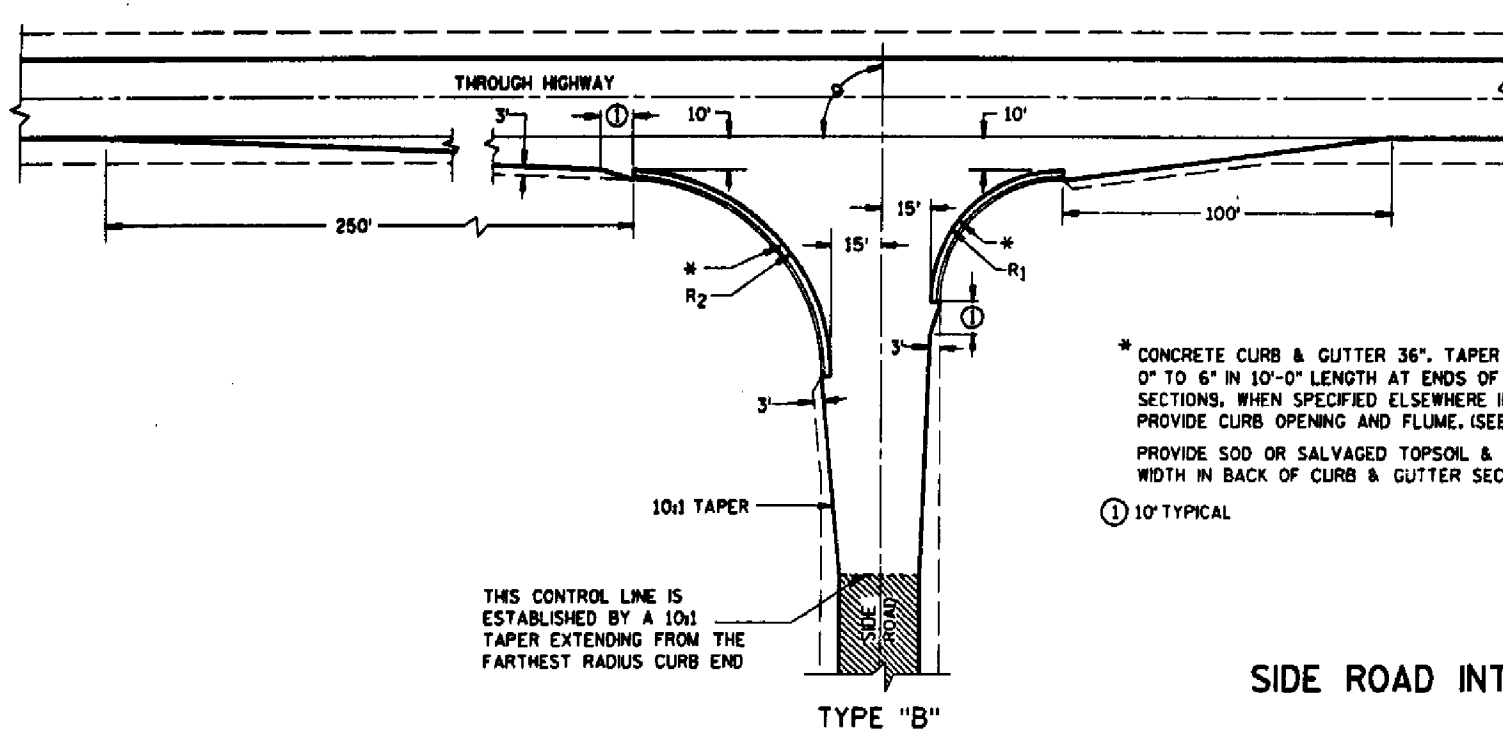
Use Endwall Connection Details 2, 3 or 5 as applicable.

APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCHES

State of Wisconsin
Department of Transportation

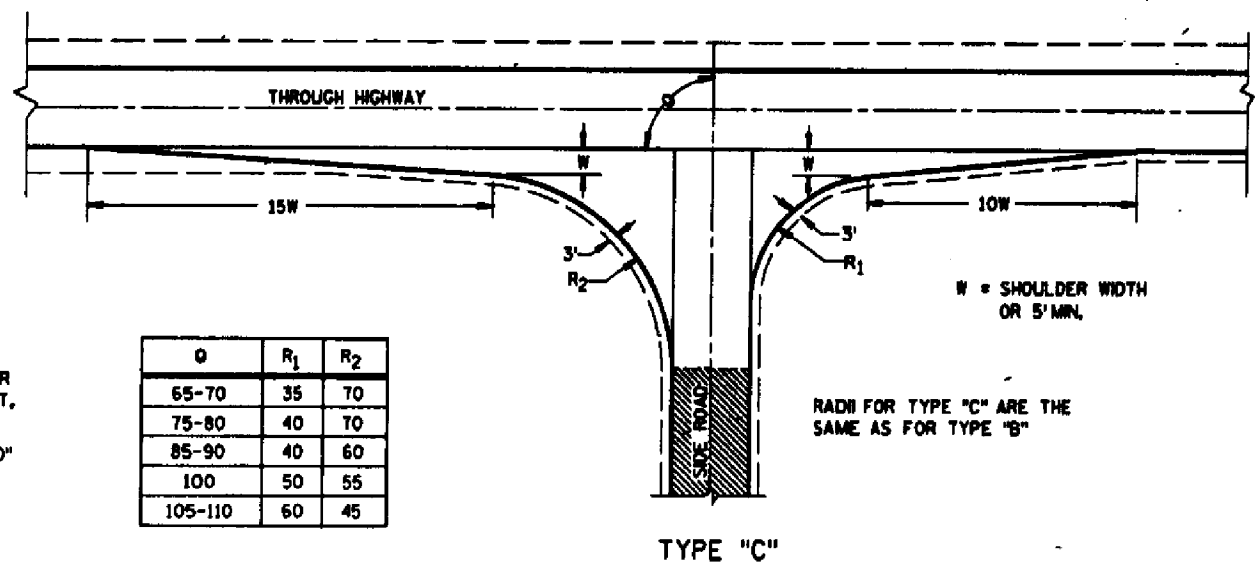
APPROVED
2-15-82
DATE

DD
CHIEF DESIGN ENGINEER



* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS, WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME. (SEE DETAIL).
 PROVIDE SOD OR SALVAGED TOPSOIL & SEED TO A 3'-0" WIDTH IN BACK OF CURB & GUTTER SECTIONS.

① 10' TYPICAL



Q	R ₁	R ₂
65-70	35	70
75-80	40	70
85-90	40	60
100	50	55
105-110	60	45

RADI FOR TYPE "C" ARE THE SAME AS FOR TYPE "B"

SIDE ROAD INTERSECTIONS DETAILS

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

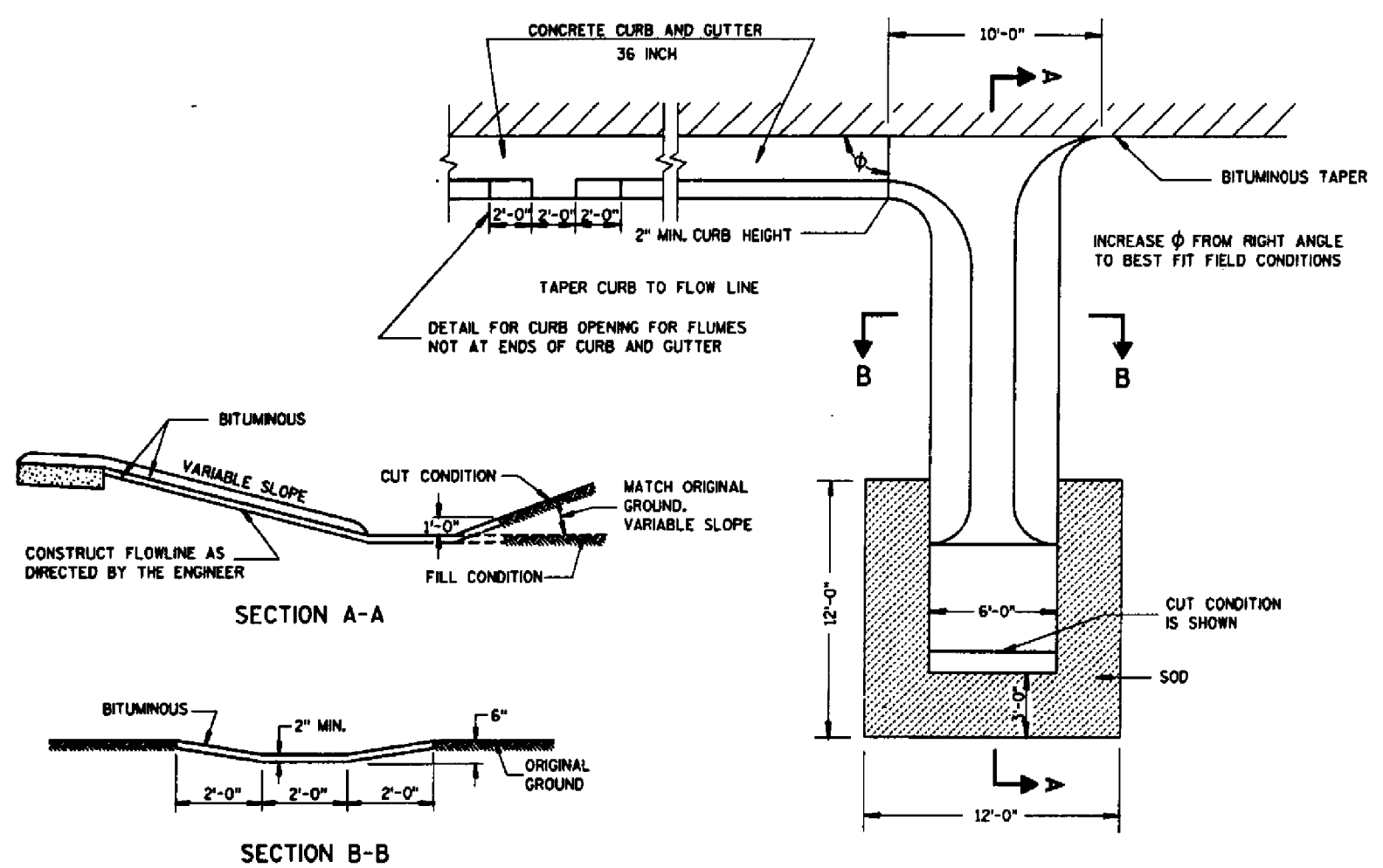
SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING SURFACE



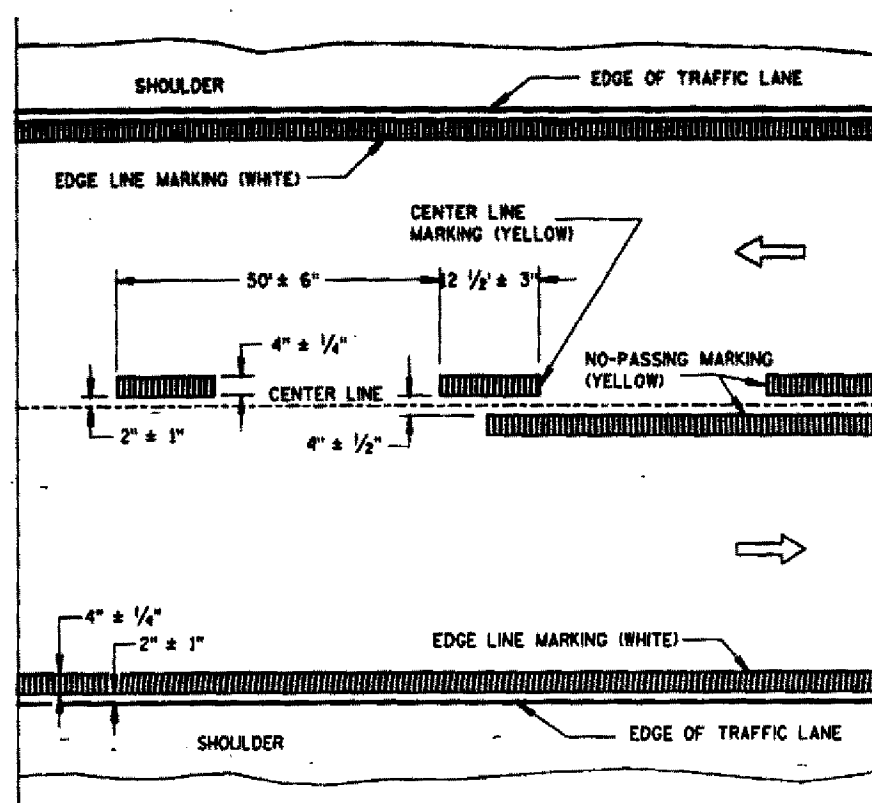
DETAIL OF BITUMINOUS FLUME AT TERMINAL END OF CURB AND GUTTER

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B" AND "C"

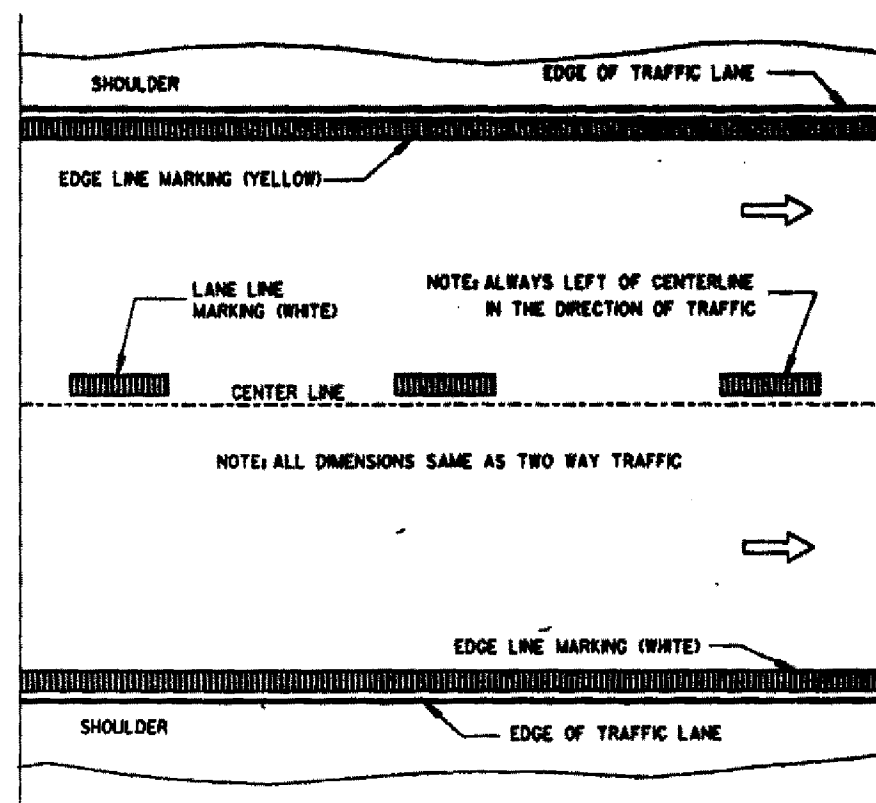
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE 8-22-86
STATE DESIGN ENGINEER FOR HWYS

FWHA

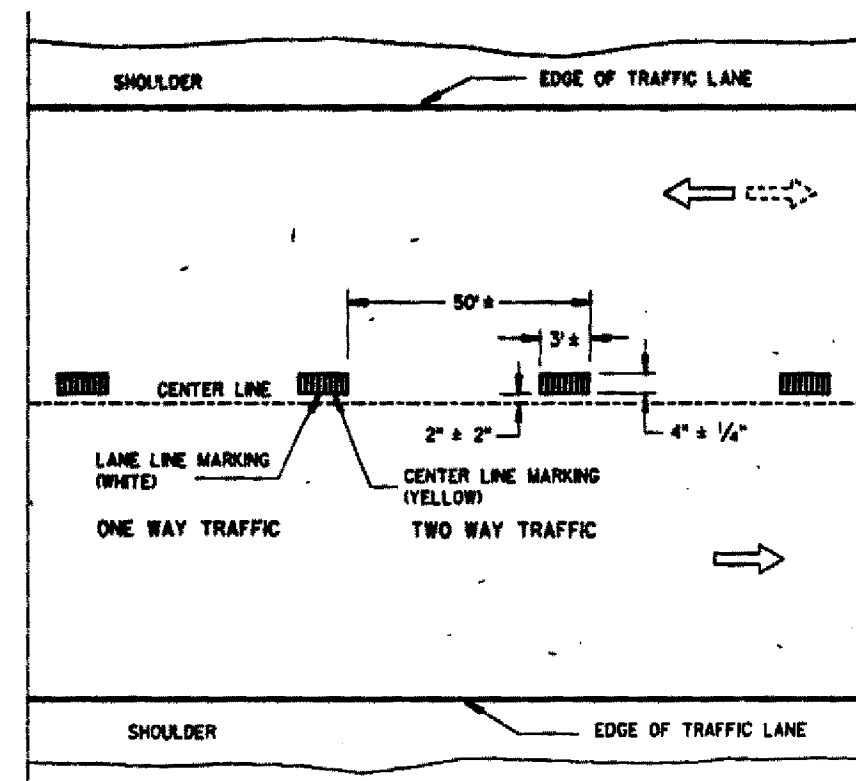


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TEMPORARY PAVEMENT MARKING

GENERAL NOTES

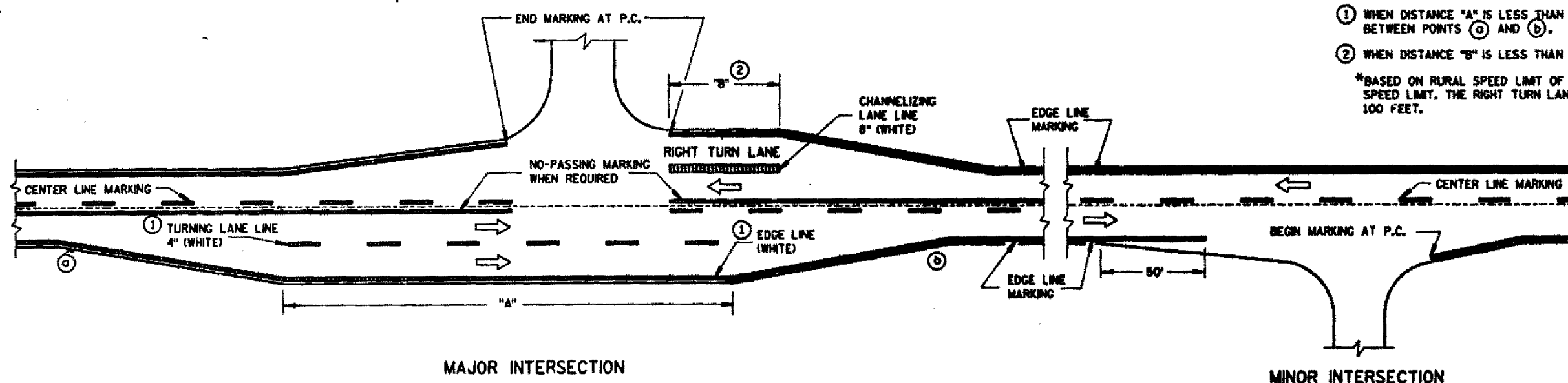
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

① WHEN DISTANCE "A" IS LESS THAN 250 * FEET, OMIT TURNING LANE MARKING AND EDGE LINE BETWEEN POINTS (a) AND (b).

② WHEN DISTANCE "B" IS LESS THAN 150 * FEET, OMIT CHANNELIZING LANE LINE.

*BASED ON RURAL SPEED LIMIT OF 55 MPH, REDUCE VALUES IN PROPORTION TO POSTED SPEED LIMIT. THE RIGHT TURN LANE SHOULD HAVE A DESIRABLE MINIMUM LENGTH OF 100 FEET.



MAJOR INTERSECTION

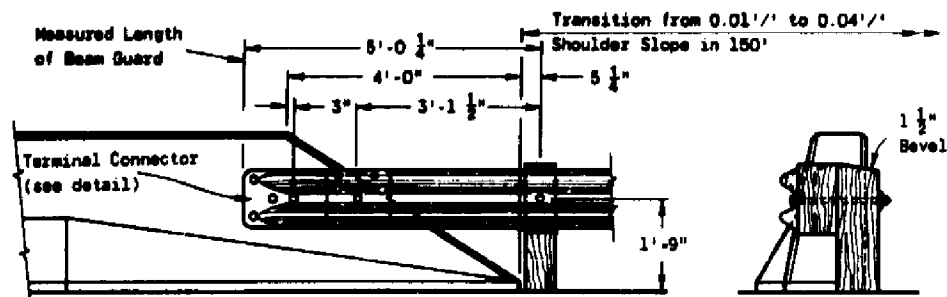
MINOR INTERSECTION

TYPICAL PAVEMENT MARKING FOR RURAL INTERSECTIONS

PAVEMENT MARKING

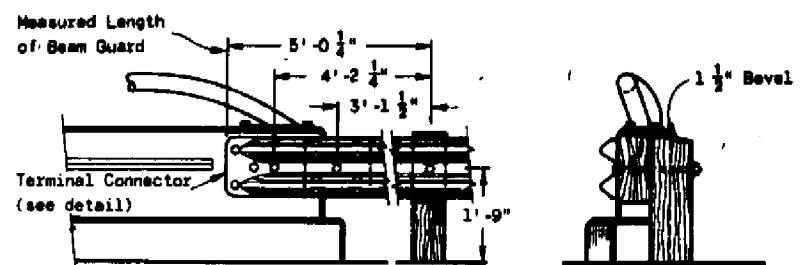
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
15-23-86
DATE
STATE TRAFFIC ENGINEER FOR HWYS
FHWA



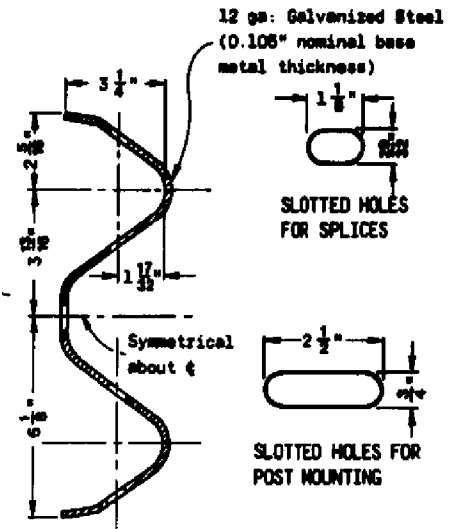
FRONT VIEW
SLOPED FACE PARAPET

END VIEW



FRONT VIEW
VERTICAL FACE PARAPET

END VIEW



SECTION THRU RAIL
ELEMENT

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, the applicable Special Provisions

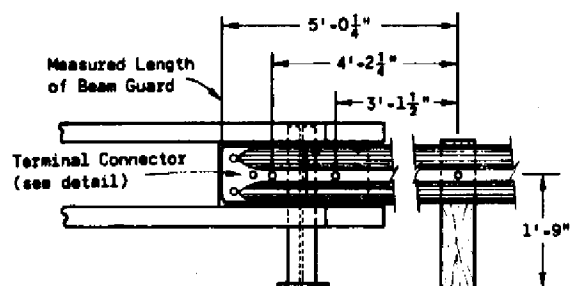
The type of anchorage and the exact location of the beginning and end of each beam guard installation shall be as shown on the plans or as directed by the Engineer.

Shoulder widening to accommodate the anchored end of the beam guard shall be accomplished at a rate of widening not to exceed 5 to 1.

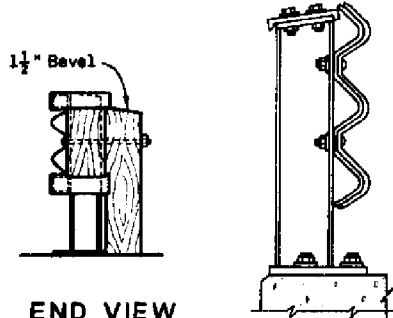
Standard Anchorages - Upon approval of the Engineer, the 6 foot offset may be reduced to nothing where existing conditions will not permit the desirable offset. However, when no offset greater than or equal to 3 feet can be provided, the minimum length of guardrail in advance of an obstacle (obstacle to anchor) shall be 150 feet.

The "Post Footing Details at Piers" shall be used when beam guard posts are over structure footings and less than 3 feet-6 inches of earth is provided over the top of the footing.

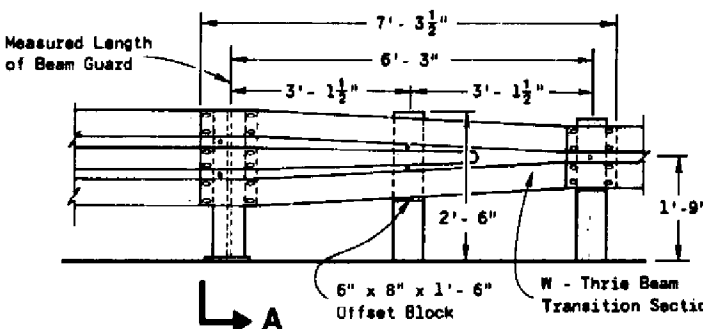
- The minimum clearance from the front face of beam guard to obstacle shall be 4 feet unless otherwise shown on contract plans. When clearance is less than 4 feet, post spacing shall be reduced to 3 feet-1 1/2 inches C-C.
- This section shall include at least one 12'-6" Rail Element and a Terminal Connector or W-Three Beam Transition Section as required for structure mounting.



FRONT VIEW
RAILING TYPE "F"

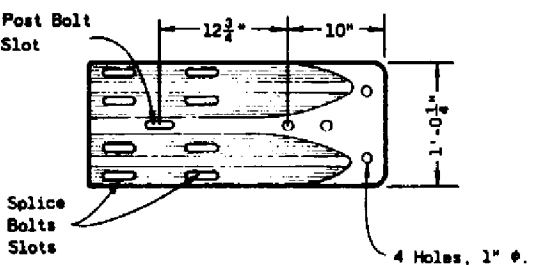
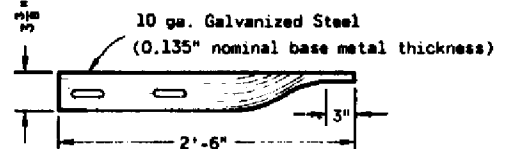


END VIEW
SECTION A-A



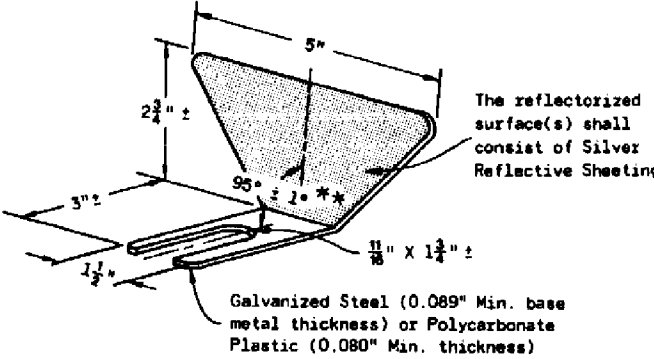
FRONT VIEW
RAILING TYPE "W"

STRUCTURE MOUNTING DETAILS



NOTE:
1" I.D., 2" O.D. (0.134" Nominal thickness) galvanized metal washer required under the head of splice bolts used in the Terminal Connector only.

TERMINAL CONNECTOR

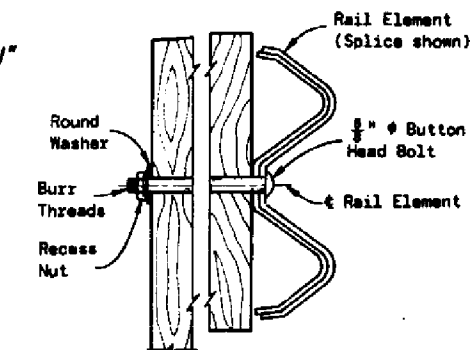


REFLECTOR SPACING				
	Beam Guard Length	Reflector Spacing	No. Surfaces Reflectorized	Min. No. Reflectors
One Way Traffic	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
Two Way Traffic	< 200' *	25' C-C	1 *	6
	> 200' *	50' C-C	1 *	
Two Way Traffic	< 200'	50' C-C	2 **	3
	> 200'	100' C-C	2 **	

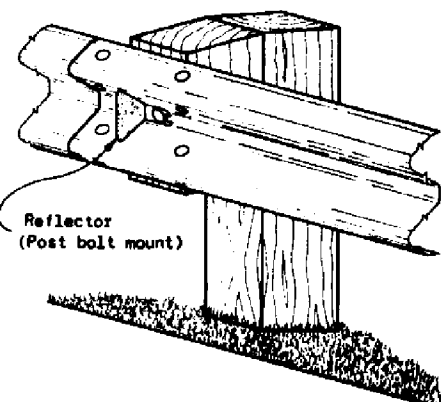
* Every other reflector reversed for 2-way visibility. Contractor may furnish two-sided reflectors in lieu of one-sided reflectors.

** Angle of bend to be 90° ± 1° for two-sided reflectors.

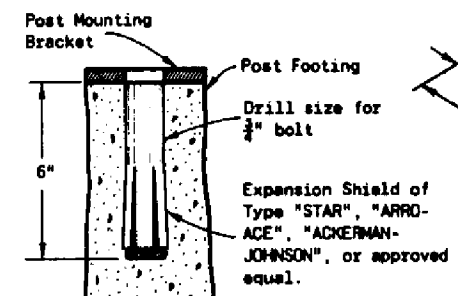
REFLECTOR DETAIL



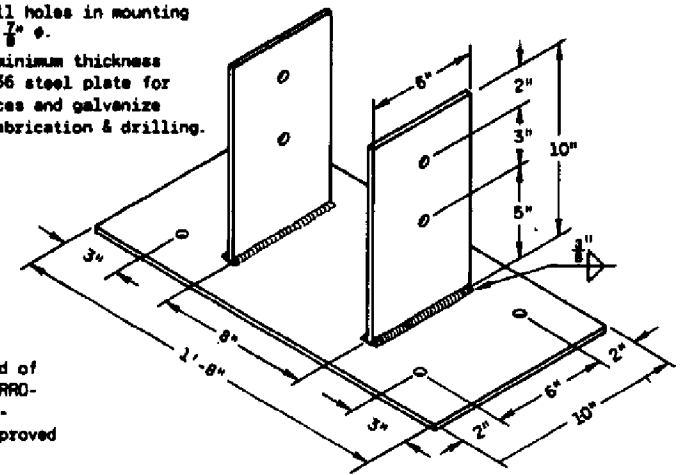
BUTTON HEAD BOLT DETAIL



TYPICAL INSTALLATION

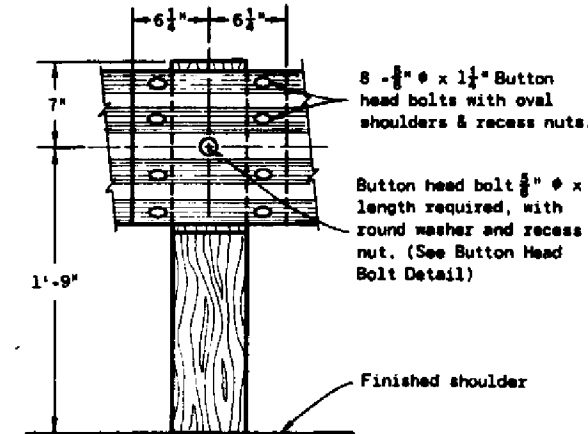


EXPANSION SHIELD DETAIL



POST MOUNTING BRACKET

POST FOOTING DETAIL AT PIERS



RAIL ELEMENT SPLICING
AND POST MOUNTING DETAIL

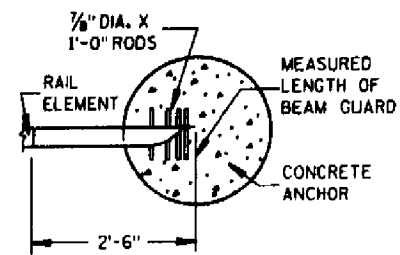
NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS OF TWO SHEETS AND BOTH SHEETS ARE REQUIRED WHEN THIS DRAWING IS CALLED FOR IN CONTRACT PLANS.
CAUTION: WHEN SPECIAL ANCHORAGES ARE SPECIFIED, SHEET 8c IS ALSO REQUIRED

CLASS "A"
STEEL PLATE BEAM GUARD

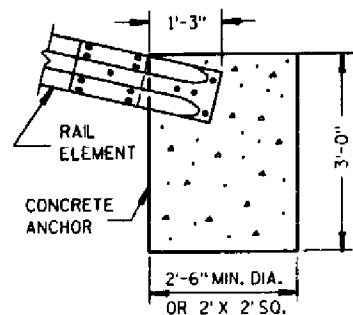
State of Wisconsin
Department of Transportation

APPROVED
1-31-85
DATE

CHIEF DESIGN ENGINEER

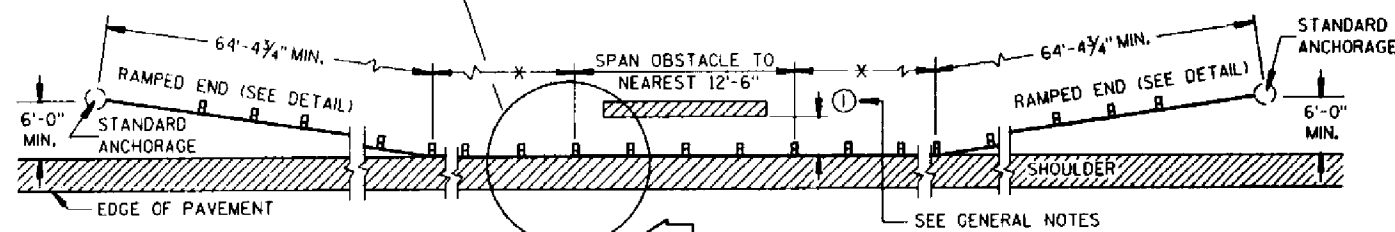
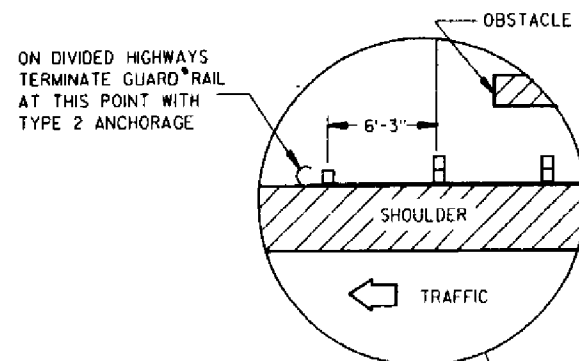


PLAN VIEW IN SECTION



FRONT VIEW IN SECTION
STANDARD ANCHORAGE DETAIL

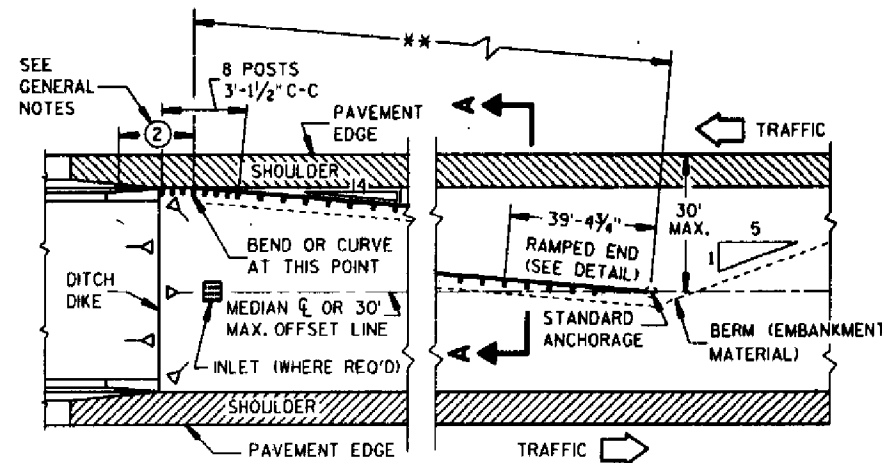
(STANDARD SPECIFICATION ITEM "ANCHORAGE
FOR STEEL PLATE BEAM GUARD")



* VARIABLE BASED ON SIZE AND LOCATION OF OBSTACLE

PLAN VIEW

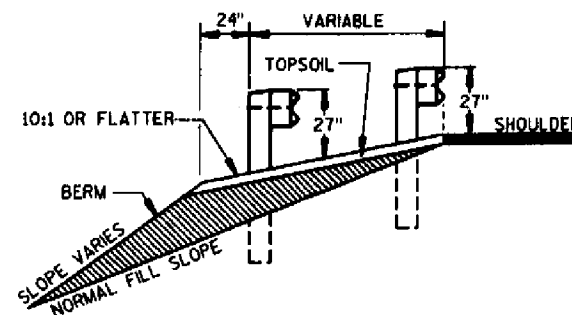
TYPICAL INSTALLATION AT OBSTACLES



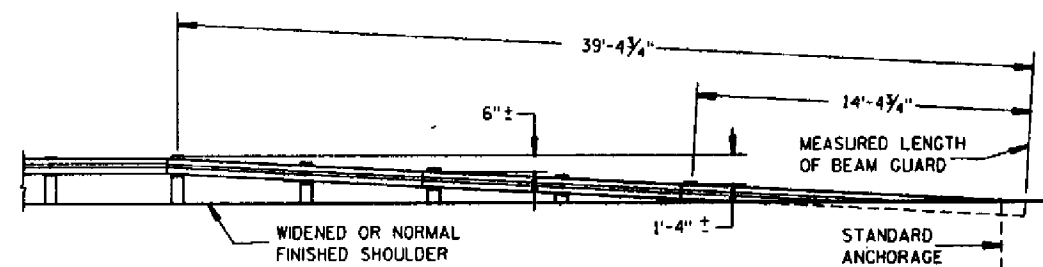
** VARIABLE BASED ON MEDIAN WIDTH
OR 30' MAX. OFFSET

PLAN VIEW

TYPICAL MEDIAN INSTALLATION AT STRUCTURES

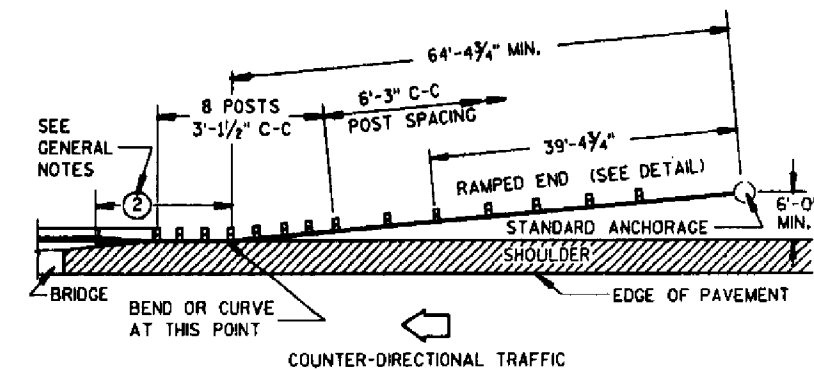


SECTION A-A



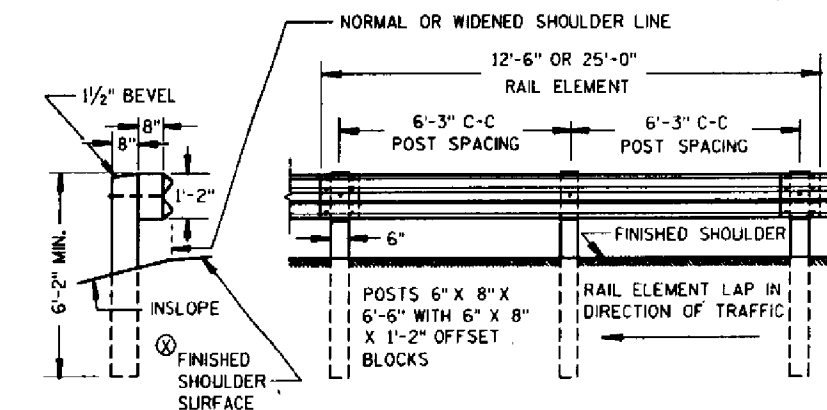
FRONT VIEW

TYPICAL RAMPED END



PLAN VIEW

TYPICAL INSTALLATION AT FULL WIDTH STRUCTURES



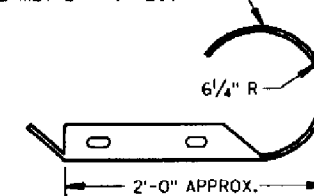
END VIEW

FRONT VIEW

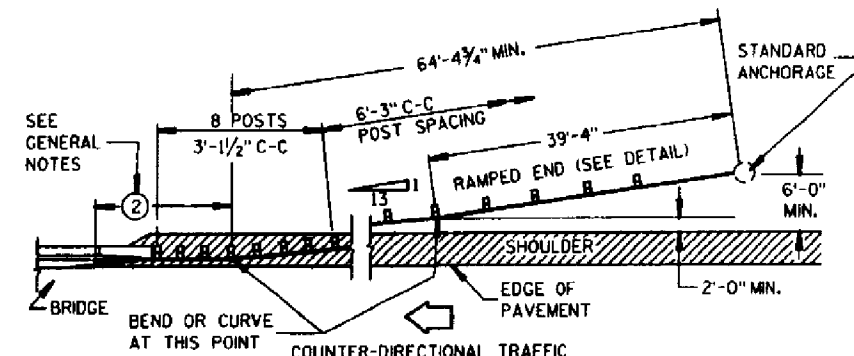
TYPICAL STEEL PLATE BEAM GUARD INSTALLATION

① SHOULDER OR EMBANKMENT SLOPE IN FRONT OF BEAM GUARD SHALL BE 10:1 OR FLATTER

12 GA. STEEL (0.105" NOMINAL
BASE METAL THICKNESS)



PLAN VIEW
END SECTION (ROUNDED)



PLAN VIEW

TYPICAL INSTALLATION AT NARROW STRUCTURES

CLASS 'A'
STEEL PLATE BEAM GUARD

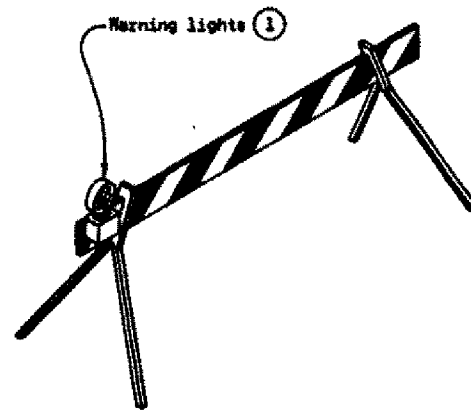
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TABLE OF BARRICADE CHARACTERISTICS

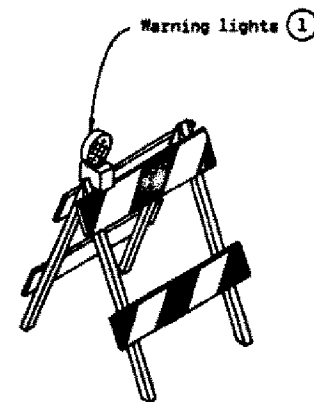
BARRICADE TYPE	I	II	III
Height	3' Minimum		5' Minimum
*Rail Width	8" Minimum to 12" Maximum		
Rail Length	2' Minimum		4' Minimum
**Stripe Width	6" at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

*Nominal dimensions when barricade is constructed of lumber.

** Shall be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



R11-2

48" x 30"

Black Lettering on Reflective
White Background

Letter Series "O"

Letter height 8"



W20-3

48" x 48"

Black Lettering on Reflective
Orange Background

Letter Series "O"

Letter height 7"

STANDARD SIGNS - TYPE II

GENERAL NOTES

The contractor shall furnish, erect and maintain barricades and signs. Details regarding location, spacing, dimensions, fabrication, material, sign lettering, lighting devices and color of barricades and signs shall conform to this drawing, the Manual On Uniform Traffic Control Devices, the Standard Specifications, Special Provisions and/or plans.

Type III Barricades and Signs shall be erected at the termini of projects and at other road or street locations where it is necessary to control or eliminate public access to the construction area.

Type I and II Barricades shall be used on projects when traffic is to be maintained through the construction area.

The actual field location of barricade installations and advance signs shall be as directed by the Engineer.

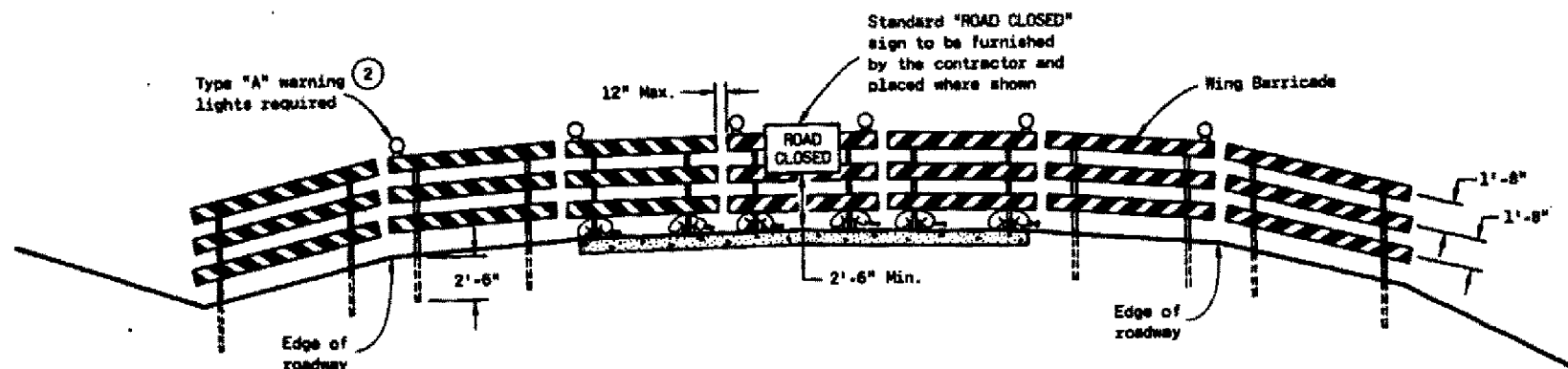
Each barricade shall have the name and telephone number of a person responsible for 24 hour emergency service printed in letters at least $\frac{1}{2}$ inch in height on the barricade rails. Prior to May 1, 1983, such information may be shown on either front or back faces of the barricade rails. After May 1, 1983, all printed information or identification markings shall be shown only on the back side of barricade rails.

Type I Barricades may include other unstriped horizontal panels necessary to provide stability.

On high speed expressways or in other situations where barricades may be susceptible to overturning in the wind, sandbags should be used for ballasting. Sandbags may be placed on lower parts of the frame or stays to provide the required ballast but shall not be placed on top of any striped rail.

- 1 Unless otherwise provided elsewhere in the contract, warning lights are required on all barricades which will be located near traffic operations during periods of inclement weather or hours of darkness. Barricades used to shield isolated hazards shall be equipped with Type "A" (low intensity - flashing) lights unless Type "B" (high intensity) - flashing lights are specified elsewhere in the contract documents. Barricades used for channelization or delineation of the travel path shall be equipped with Type "C" (steady burn) lights except for the initial barricade(s) in sequence, which shall be equipped with Type "A" or "B" lights as previously noted.

- 2 Two warning lights shall be provided on the center barricade and at least one warning light shall be provided on each of the other barricades within the roadway limits. Spacing of the warning lights shall be uniform to the edge of roadway as shown.



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

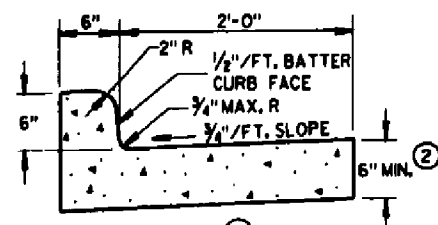
CONSTRUCTION BARRICADES

CONSTRUCTION BARRICADES & STANDARD SIGNS

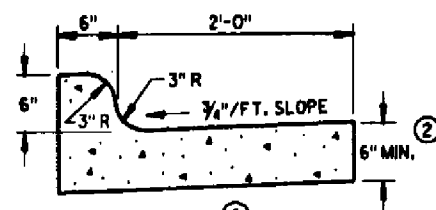
State of Wisconsin
Department of Transportation

APPROVED
9-14-81
DATE

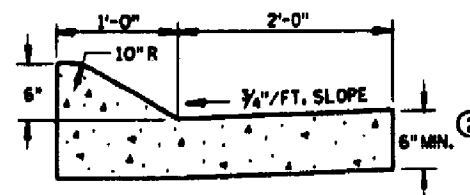
[Signature]
CHIEF DESIGN ENGINEER



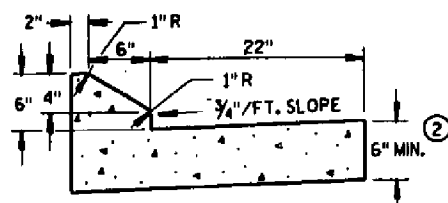
TYPES A & D



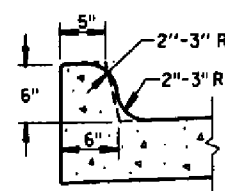
TYPES K & L



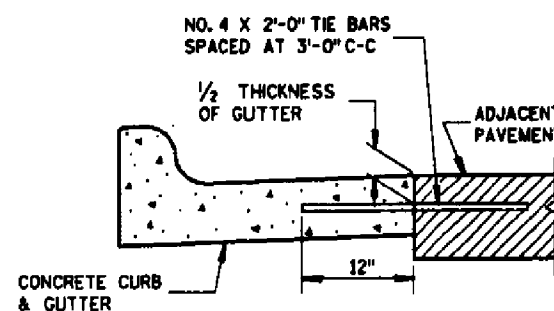
TYPES A & D
CONCRETE CURB & GUTTER 36"



TYPES G & J

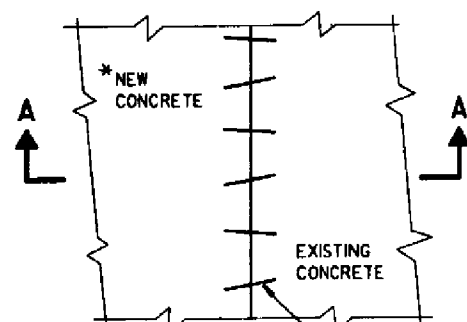


OPTIONAL CURB SHAPE
FOR TYPES K & L



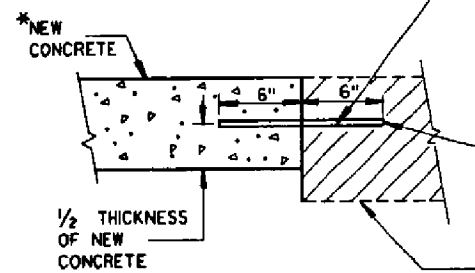
TYPICAL TIE BAR LOCATION

CONCRETE CURB & GUTTER 30"



PLAN VIEW

*NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.

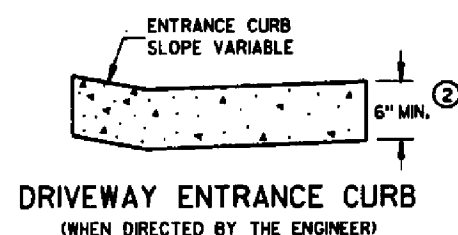


SECTION A-A
PAVEMENT TIES

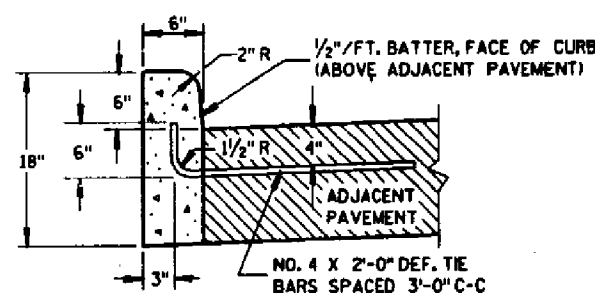
NO. 6 X 12" DEF. BARS
SPACED 3'-0" C-C,
INSTALLED ON 6:1 SKEW
HORIZONTALLY. DIRECTION
OF SKEW ALTERNATING AFTER
EVERY ONE OR TWO BARS.

THE HOLE FOR THE BAR SHALL
BE DRILLED TO A DEPTH OF
7" AND TO SUCH A DIAMETER
AS TO PROVIDE A TIGHT
DRIVEN FIT

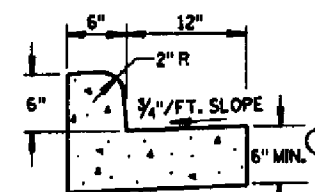
EXISTING
CONCRETE



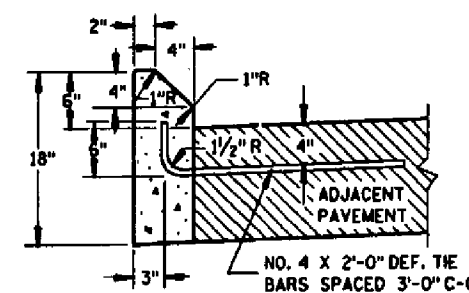
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



TYPES A & D



TYPES A & D
CONCRETE CURB & GUTTER 18"



TYPES G & J

CONCRETE CURB

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEALANT IS NOT REQUIRED IN THE JOINTS OF CONCRETE CURB OR CONCRETE CURB & GUTTER EXCEPT AS REQUIRED FOR INTEGRAL GUTTER.

PAVEMENT TIES ARE REQUIRED, WHEN INCLUDED IN THE CONTRACT, WHERE CONCRETE CURB, CONCRETE CURB AND GUTTER OR CONCRETE PAVEMENT IS PLACED ADJACENT TO EXISTING CONCRETE.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

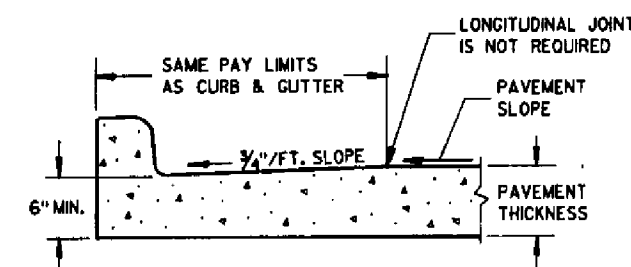
INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE, TIE BARS AND A LONGITUDINAL CONSTRUCTION JOINT ARE NOT REQUIRED WITH THIS ALTERNATE.

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER. JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE 1/8" WIDE.

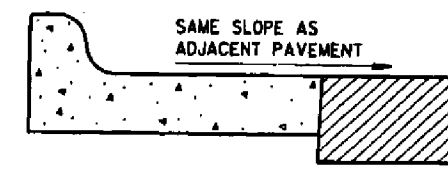
JOINTS IN INTEGRAL CURB & GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME SEALANT SPECIFIED FOR THE PAVEMENT JOINT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB & GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE TWO FEET BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER
(TYPICAL FOR ALL CURB & GUTTER TYPES)

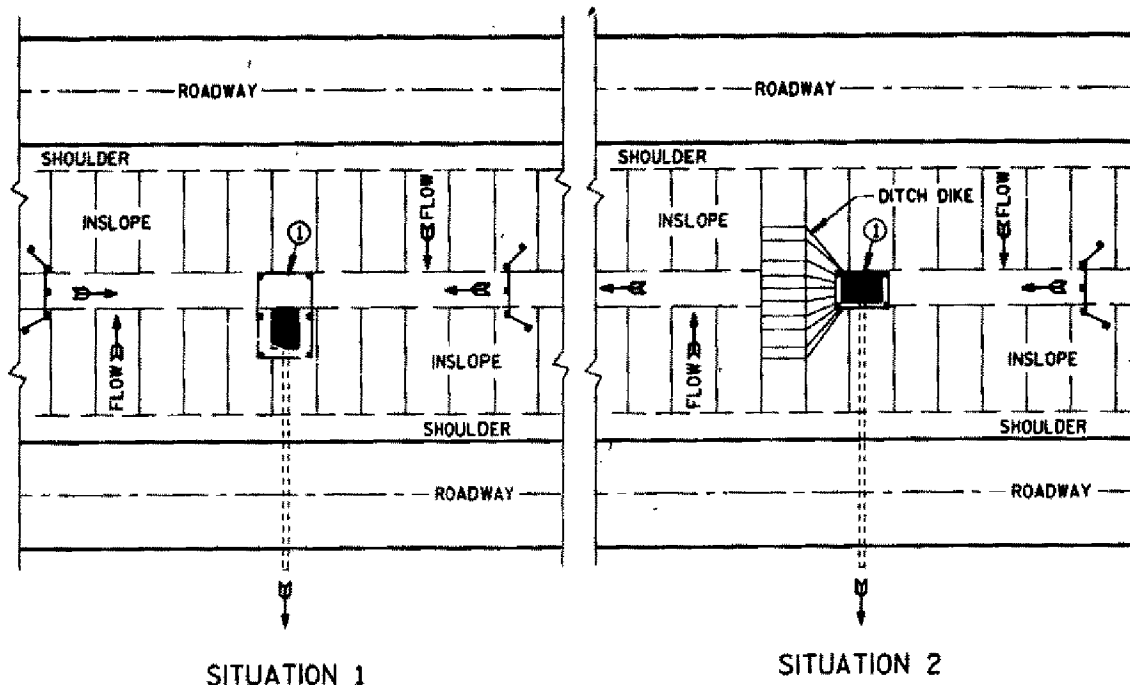
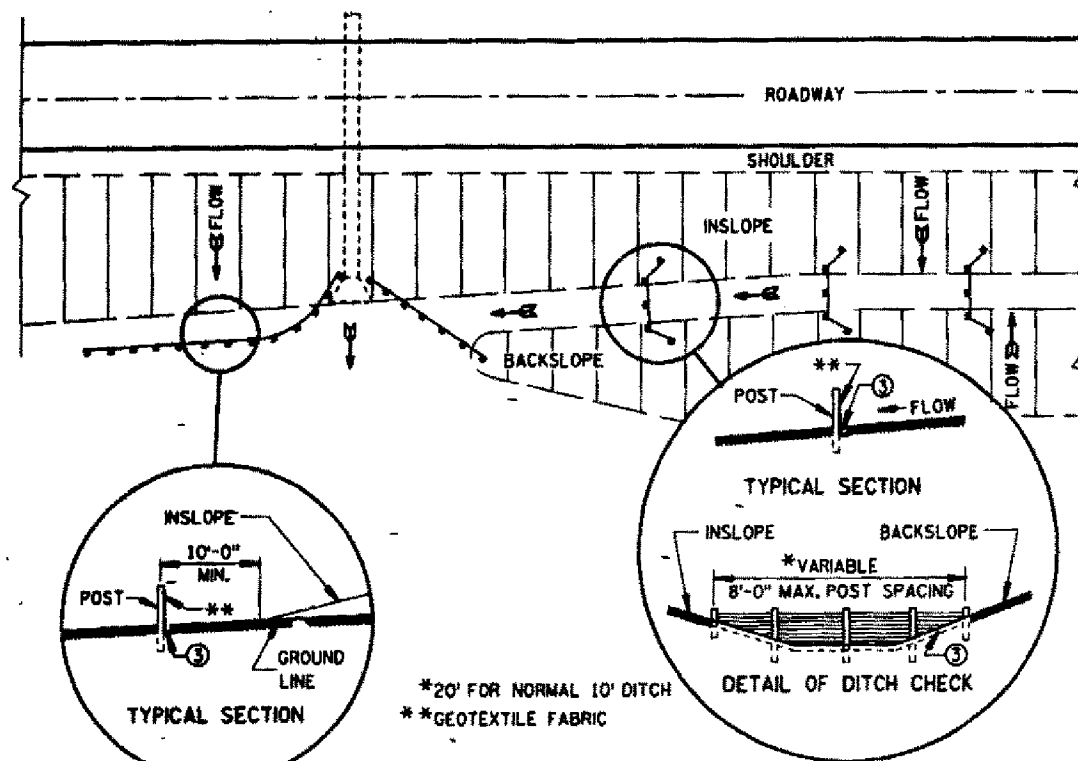
CONCRETE CURB, CONCRETE
CURB & GUTTER AND
PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-23-86
DATE

STATE DESIGN ENGINEER FOR HWYS

FHWA



SILT FENCE AT MEDIAN SURFACE DRAINS

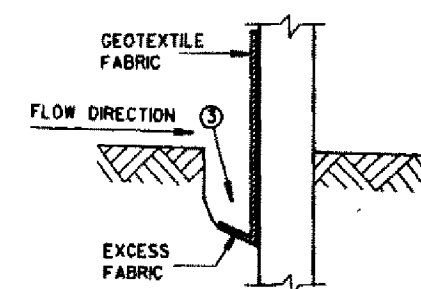
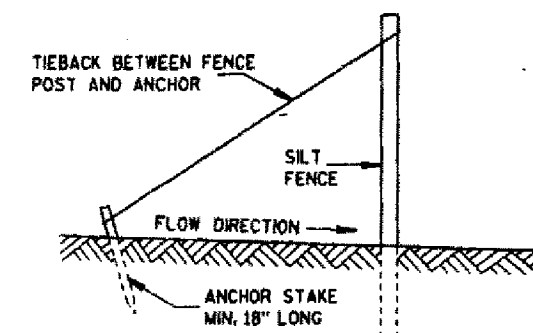
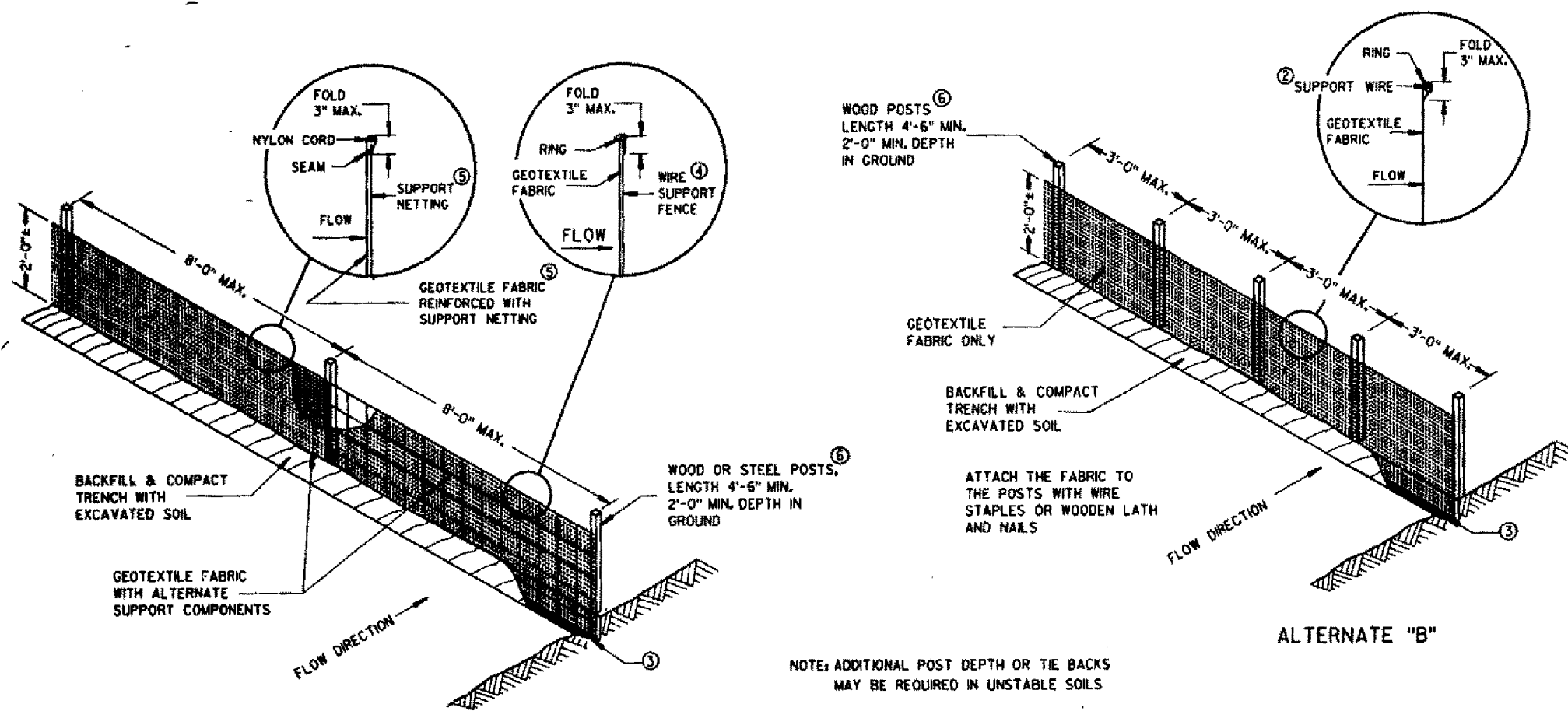
GENERAL NOTES

DETAIL OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

WHEN POSSIBLE THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.

- ① CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
- ② MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.
- ③ EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ④ WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C-C.
- ⑤ GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
- ⑥ STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS/LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIA. OR 1 1/2" X 3 1/2" EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/2" X 1 1/2" OAK OR HICKORY.

ALTERNATES A & B ARE EQUAL AND EITHER MAY BE USED.



SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

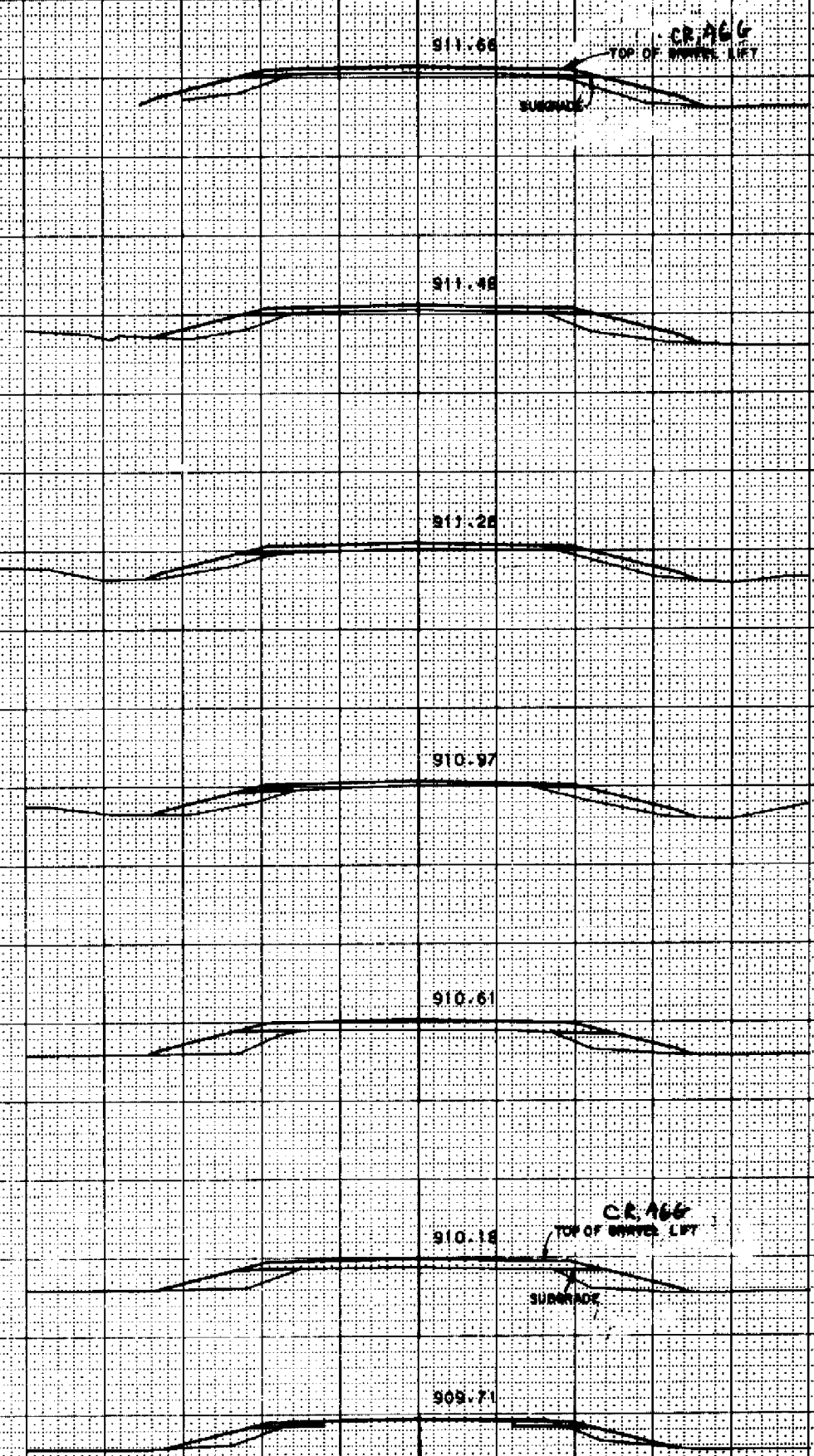
APPROVED

DATE

FHWA

STATE DESIGN ENGINEER FOR HWYS

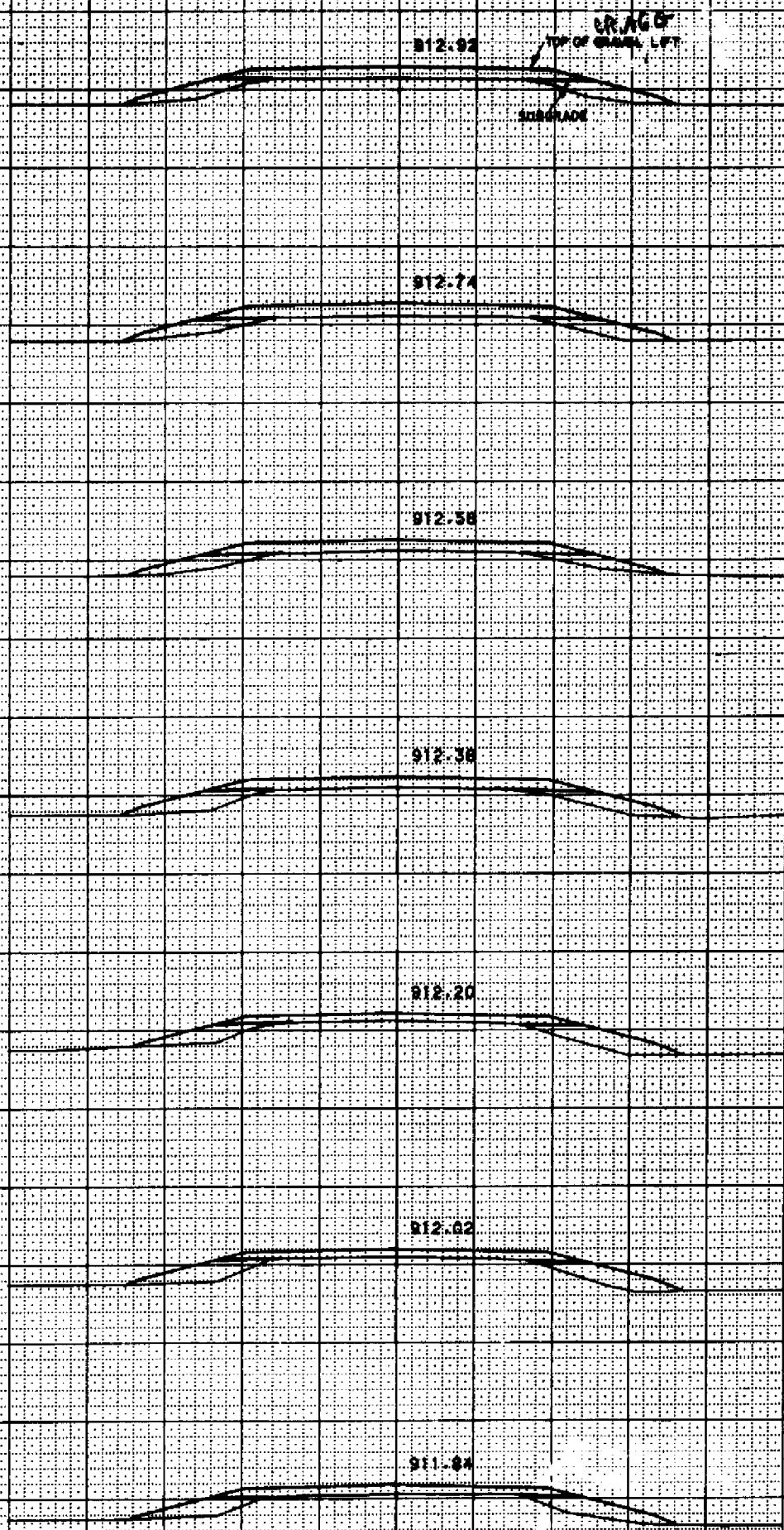
STATE PROJECT NUMBER 1560-03-72
 20



883+00
 910
 882+00
 910
 881+00
 910
 880+00
 910
 879+00
 910
 878+00
 910
 877+00
 910

TEMPLATE IS SUBGRADE
 PRINTED ELEV IS SUBGRADE
 SCALE: 1" = 20'
 SHEET NO. 1 OF 1
 1380037319

STATE PROJECT NUMBER	1580-03-72
SHEET NO.	2



910

910

910

910

910

910

910

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

SHEET NO. 2

158003721B

STATE PROJECT NUMBER 1560-03-72
1560-03-72



868+00
910



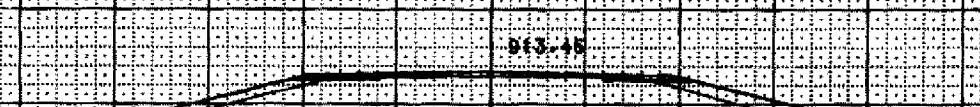
869+00
910



870+00
910



871+00
910



872+00
910



873+00
910

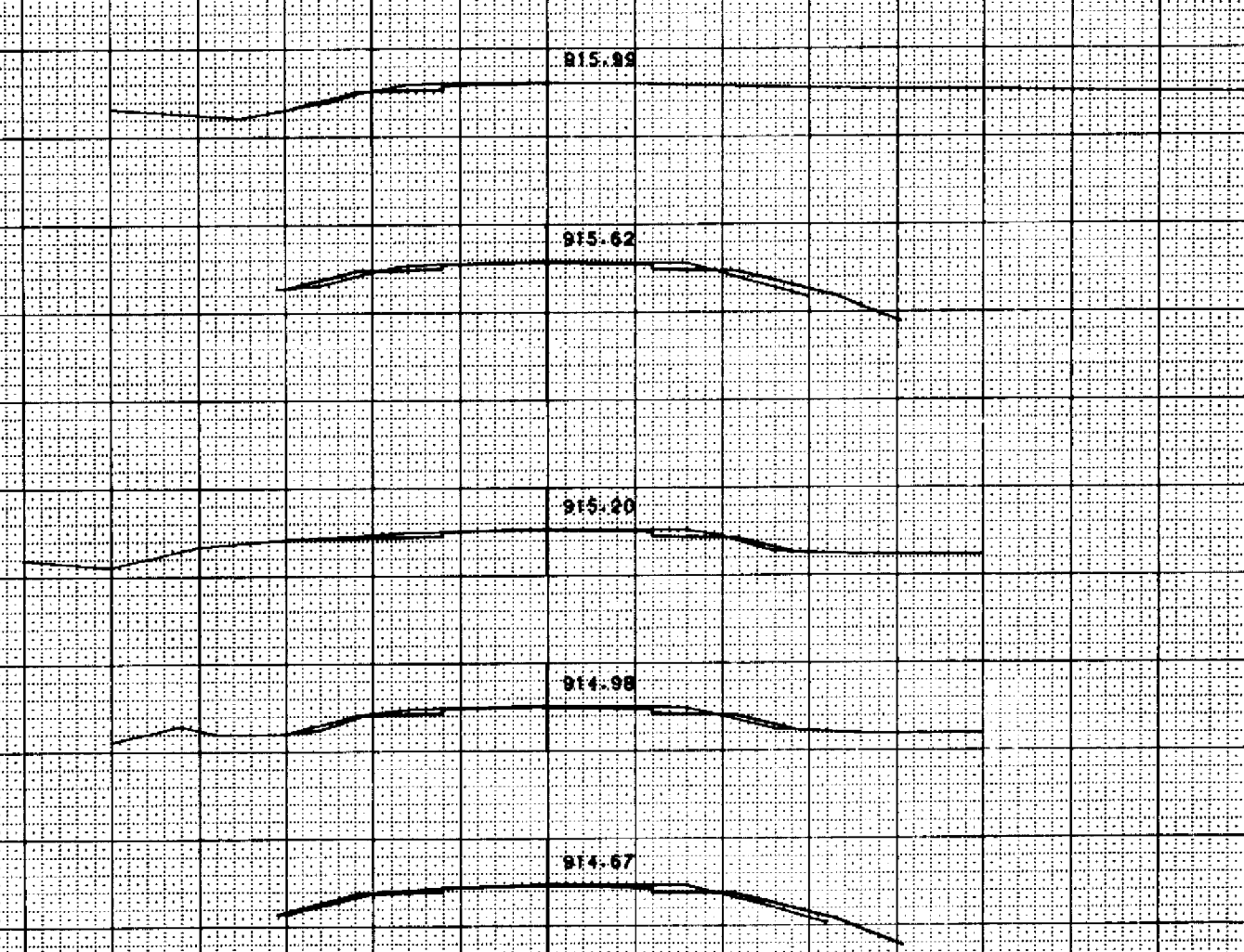


TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SCALE: FEET

SHEET NO. 3
156003/218

7/45

STATE PROJECT NUMBER	SHEET NUMBER
360-03-72	9.5



912+00
920
911+00
920
910+00
920
909+00
920
908+00
920

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SCALE: FEET
SHEET NO. 4
156003-219

STATE PROJECT NUMBER

1540-05-72

VARIANCE

EXCAVATION

STATION

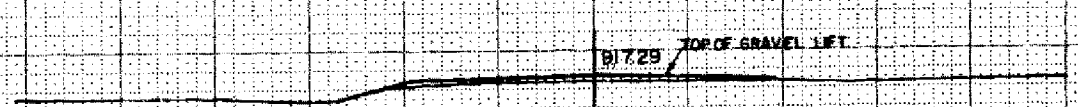
DISTANCE



676+25
910



676+0
910



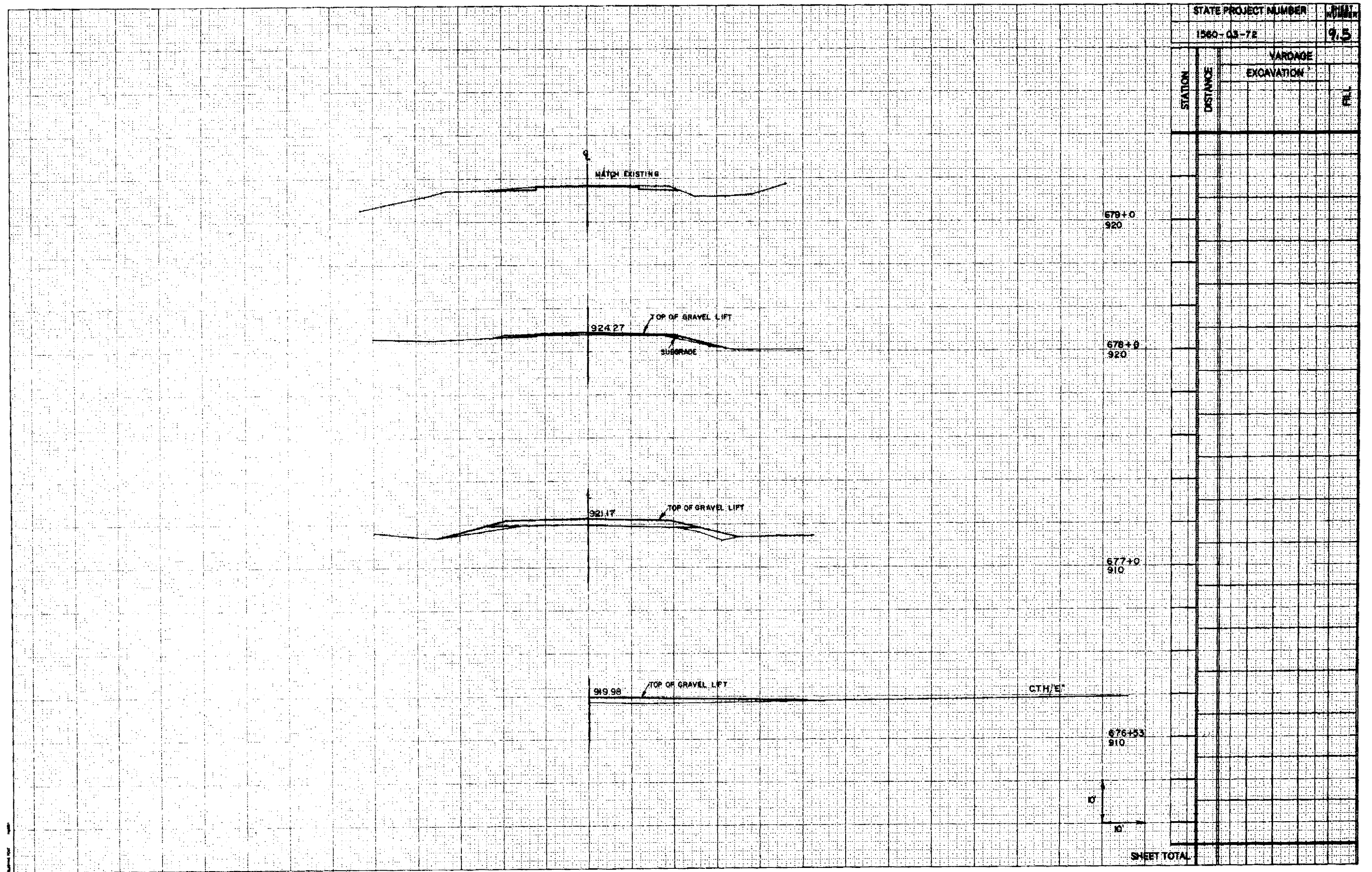
675+0
910



674+0
910

10'
10'

SHEET TOTAL



STATE PROJECT NUMBER 1680-03-72
1680-03-72

580

981.38

587+00
580

984.84

590+00
580

985.68

595+00
580

986.19

594+00
580

985.96

593+00
580

985.16

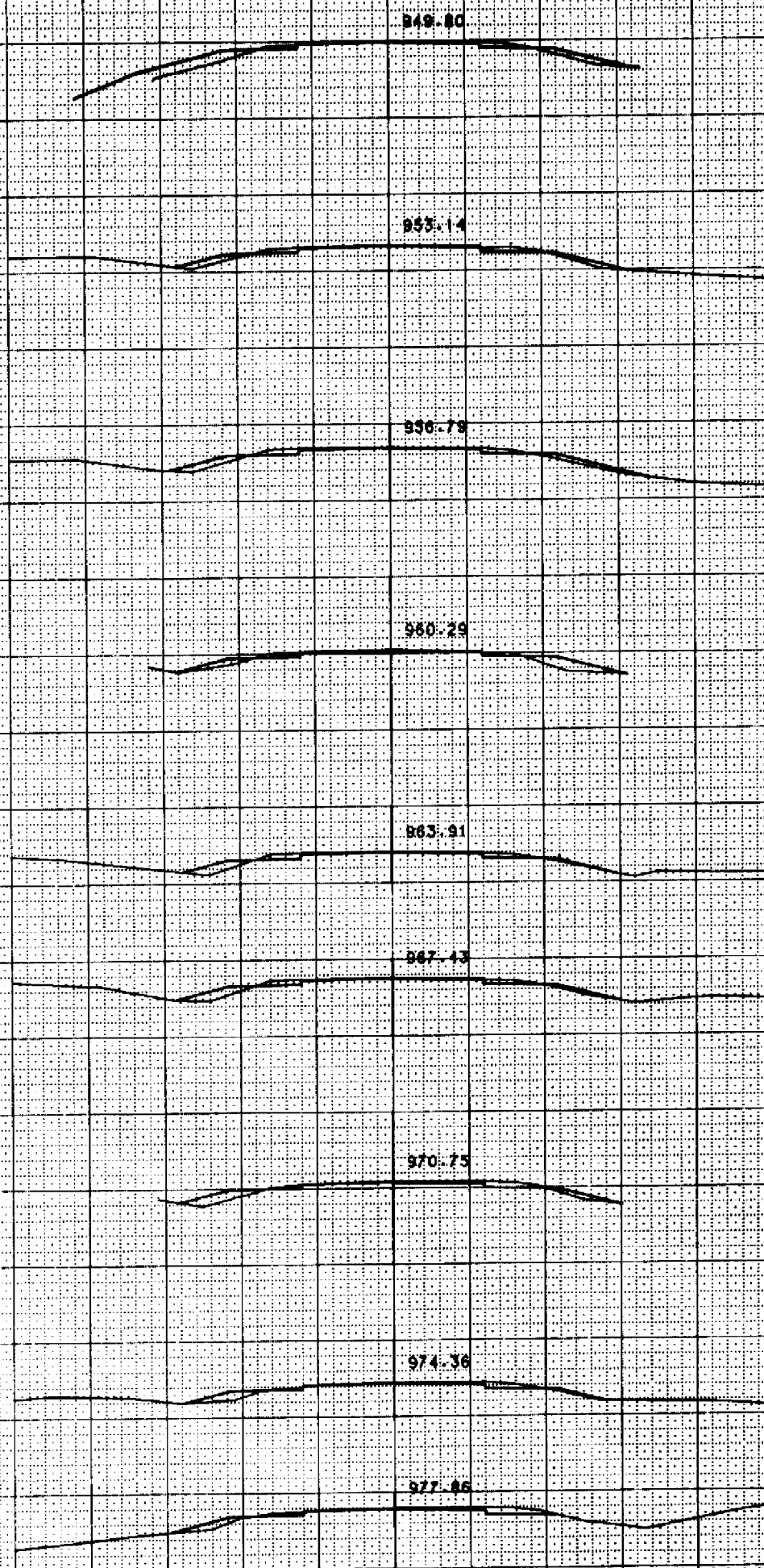
592+00
580

983.62

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SHEET NO 1
SCALE: FEET
1" = 20'
168003721B

3/MS

STATE PROJECT NUMBER
1560-43-12
9.7



707+00
560
708+00
560
705+00
560
704+00
570
703+00
570
702+00
570
701+00
580
700+00
580
599+00
580

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SCALE: FEET
SHEET NO. 2
1560037219

STATE PROJECT NUMBER
1560-03-72
712-00

840

937.71

712-00

840

938.50

711-00

850

940.41

710-00

850

942.04

709-00

850

944.00

708-00

850

946.62

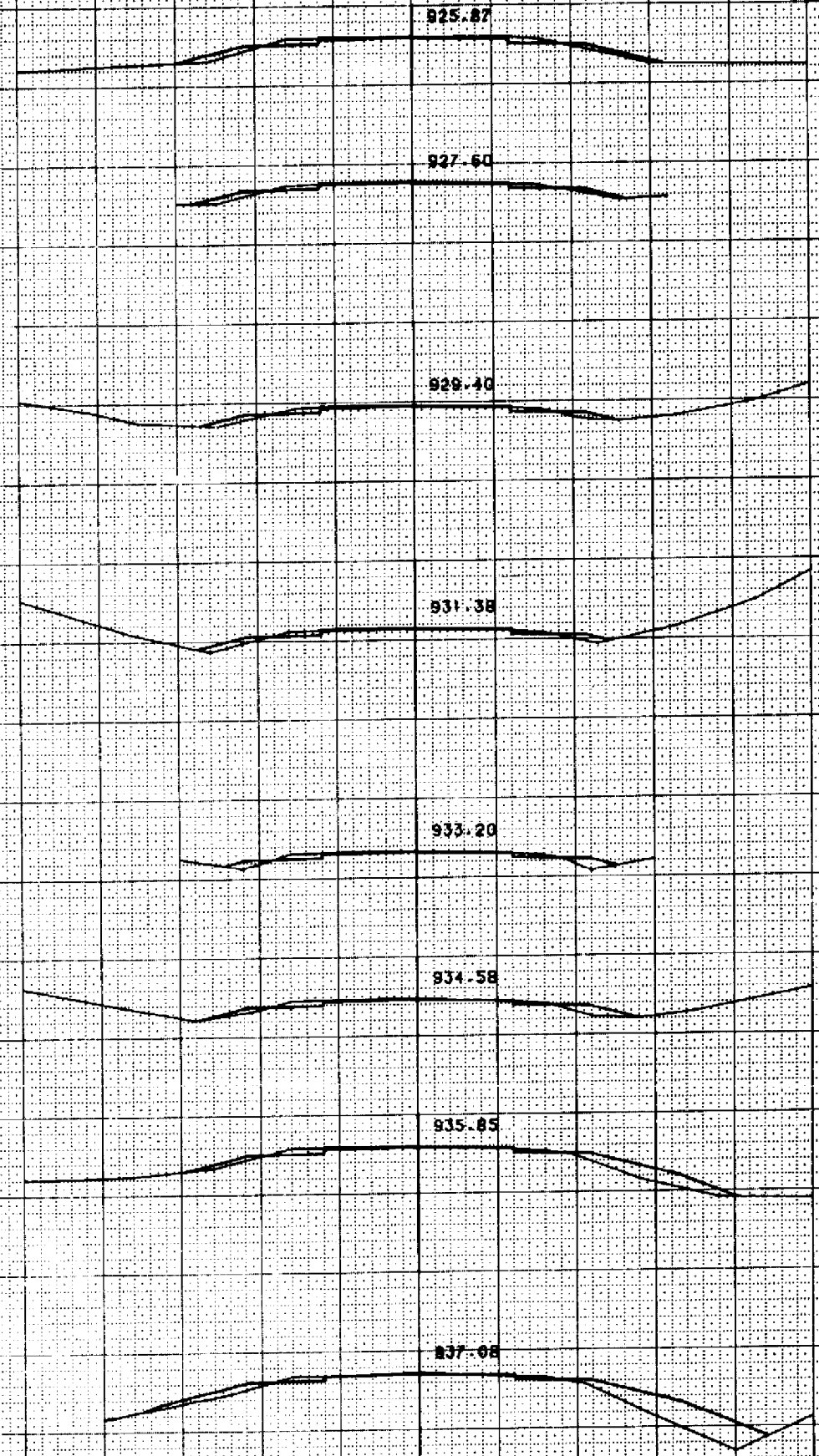
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PRINTED ELEV IS SUBGRADE

SCALE: FEET

SHEET NO. 3
156003721B

P/45

STATE PROJECT NUMBER	DATE
1540-CB-72	7-20-60



530

719+00

530

718+00

530

717+00

540

716+00

540

715+00

540

714+00

540

713+00

540

20

30

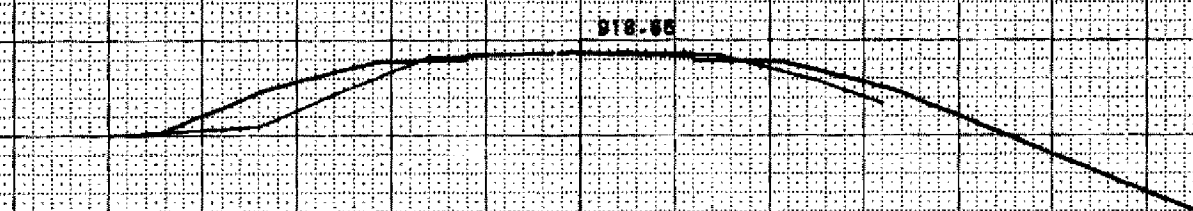
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PRINTED ELEV IS SUBGRADE

SCALE: FEET

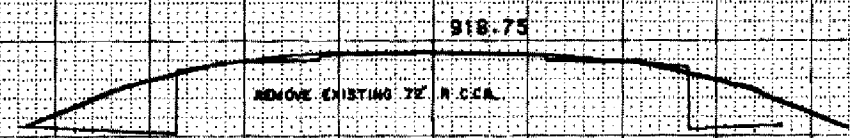
SHEET NO. 4

S. 1360037219

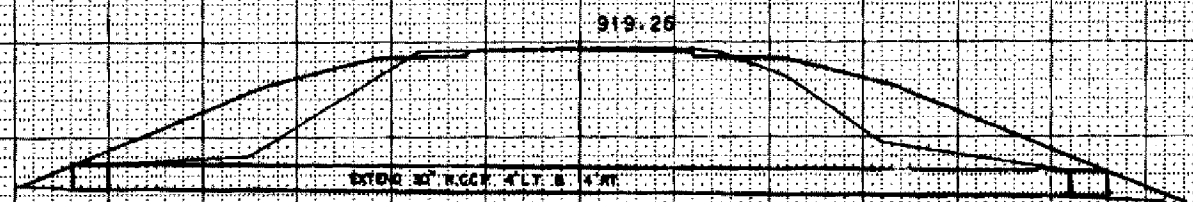
STATE PROJECT NUMBER 1560-03-72
918
725+00



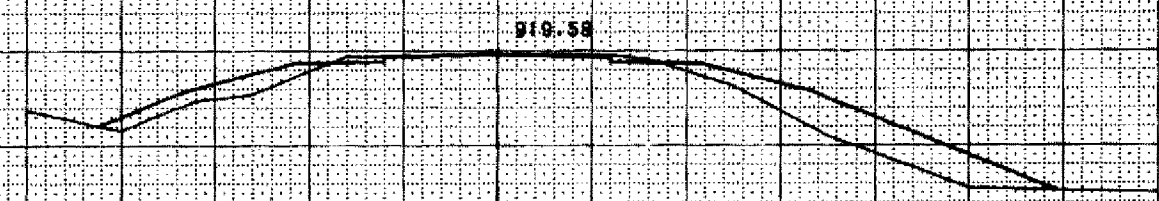
920



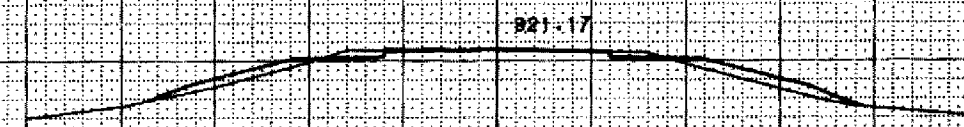
724+84
920



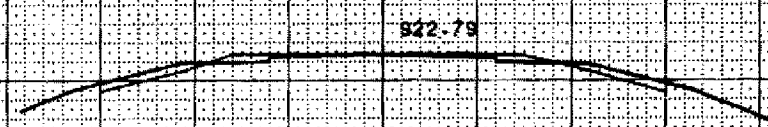
724+32
920



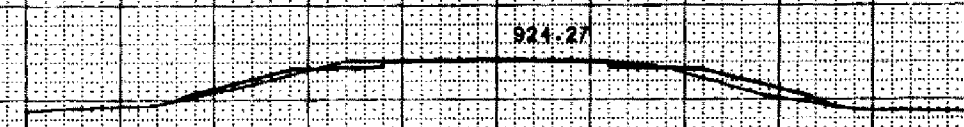
724+00
920



723+00
930



722+00
930



721+00
930

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SHEET NO. 5 1560037219

27.5

STATE PROJECT NUMBER 1980-03-72

730+00

808.80

731+48

810

807.67

731+00

810

808.53

730+00

820

910.12

729+00

820

911.77

728+00

820

913.48

727+00

820

915.07

726+00

820

916.80

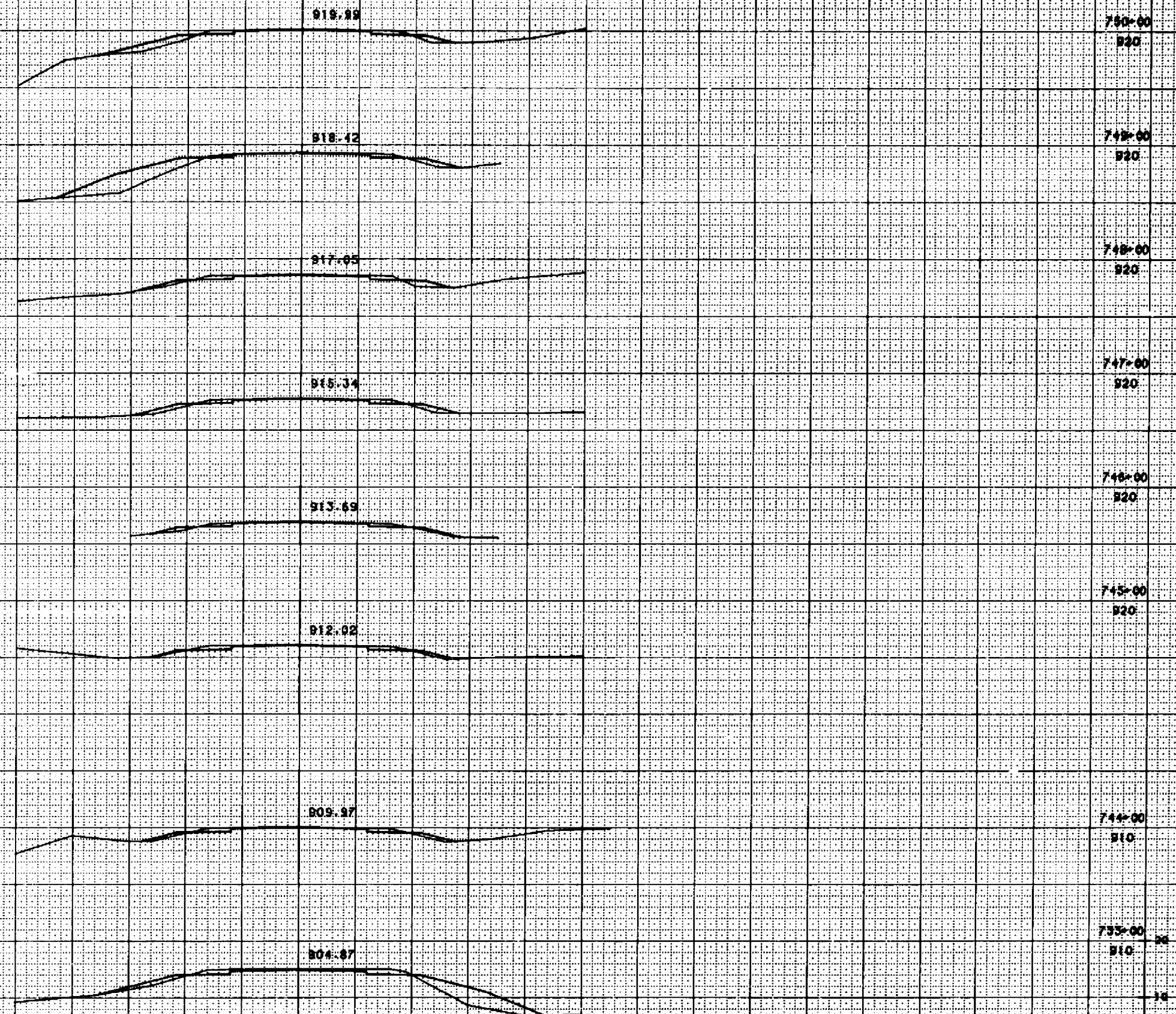
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SCALE: FEET

SHEET NO 6 136003219

15/45

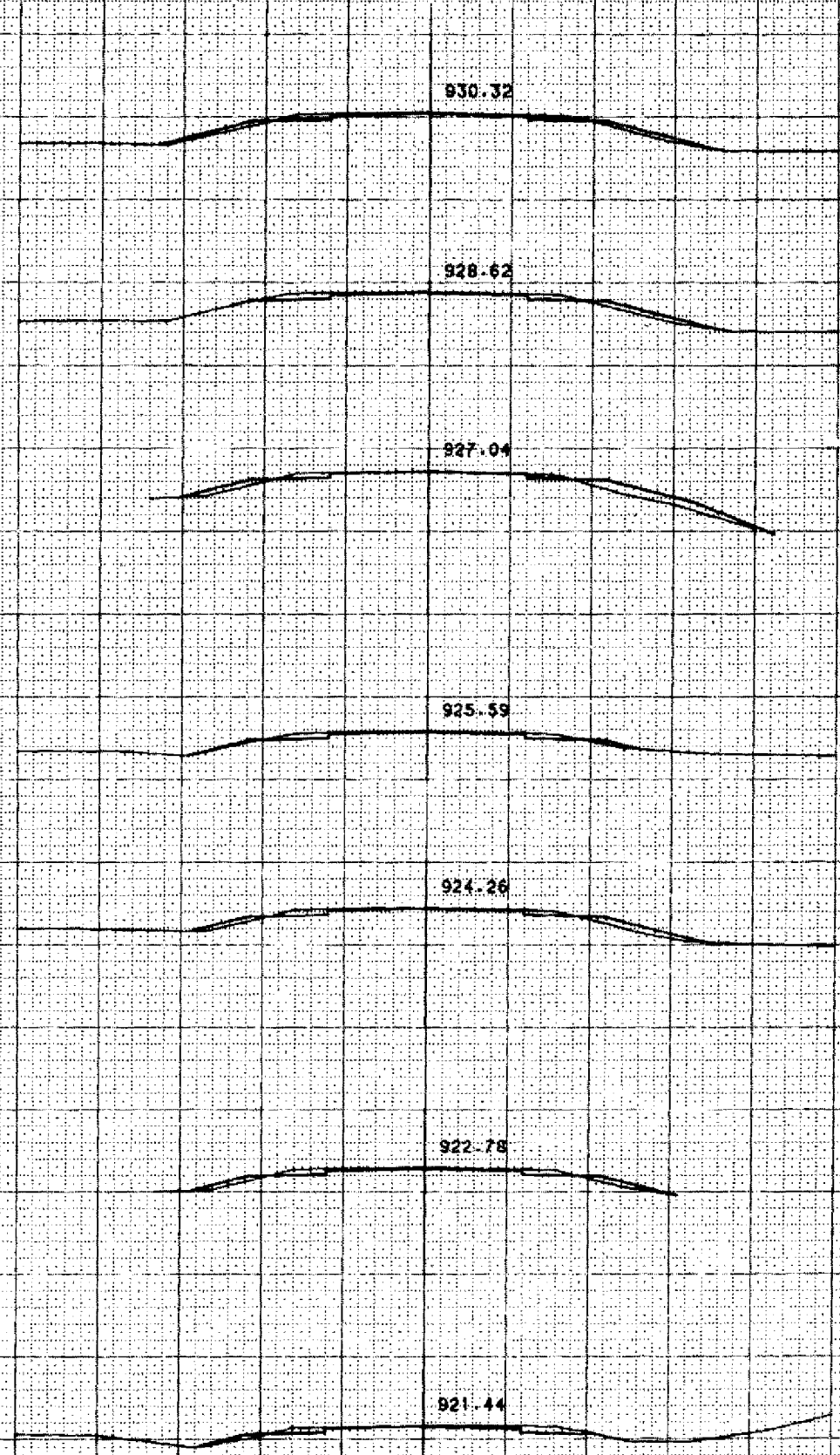
STATE PROJECT NUMBER	SHEET
080-03-72	7/12



TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SHEET NO. 7 8 1560037219
SCALE: FEET

11/45

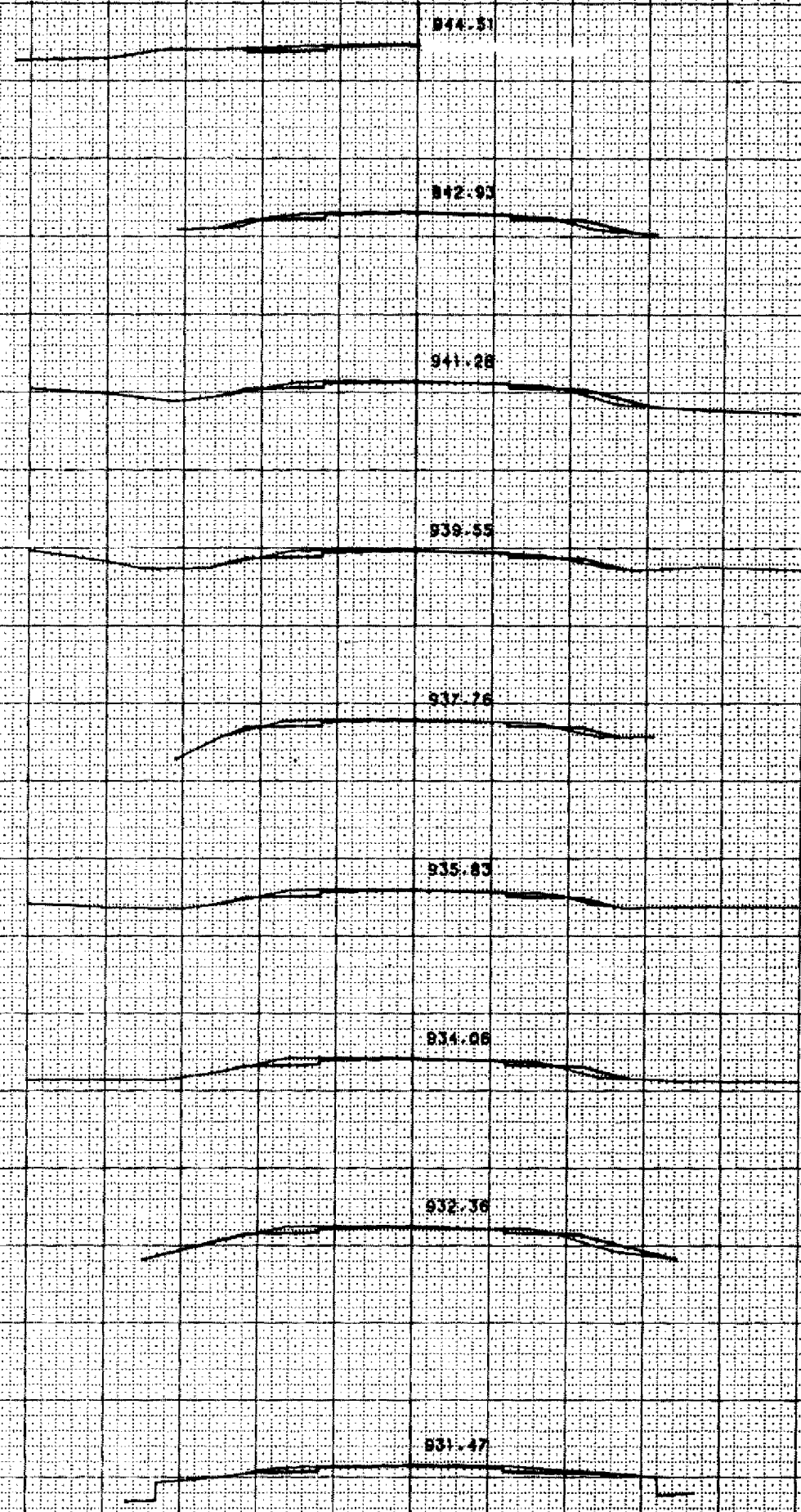
STATE PROJECT NUMBER	1560-05-72
DATE	9-12



757+00
940
756+00
930
755+00
930
754+00
930
753+00
930
752+00
930
751+00
930

5/45

STATE PROJECT NUMBER 1981-05-72
9/14



765+00
850
764+00
850
763+00
850
762+00
840
761+00
840
760+00
840
759+00
840
758+00
840
757+00
840

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SHEET NO. 8
SCALE: FEET
1" = 20'

1/15

STATE PROJECT NUMBER 1560-03-72
9/15

966.58

310+00

966.44

309+00

966.32

308+00

966.08

307+00

965.73

306+00

965.33

305+00

946.04

316+00

945.71

765+83

945.53

765+84

944.99

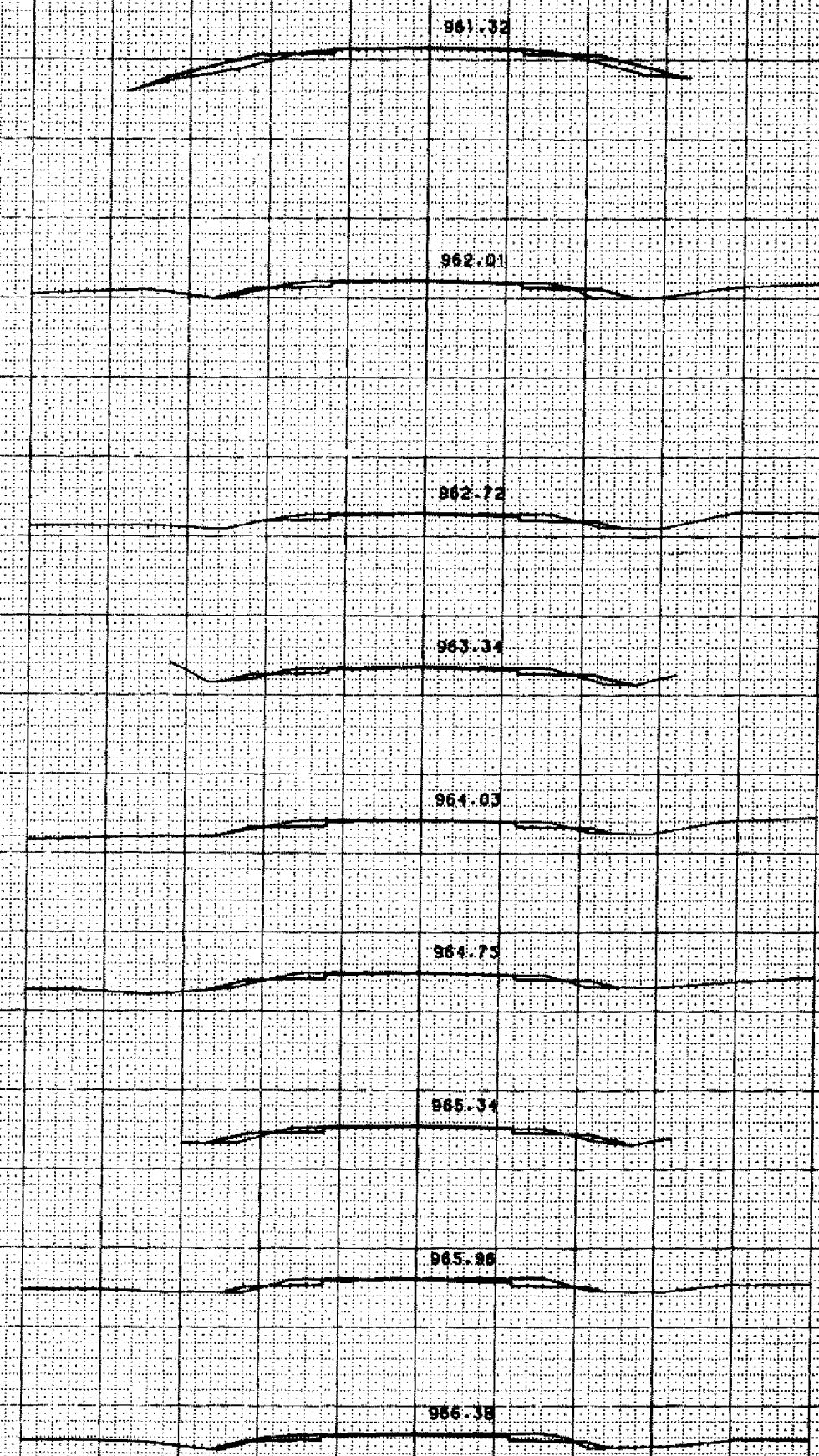
765+23

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

SHEET NO 10
1560037219

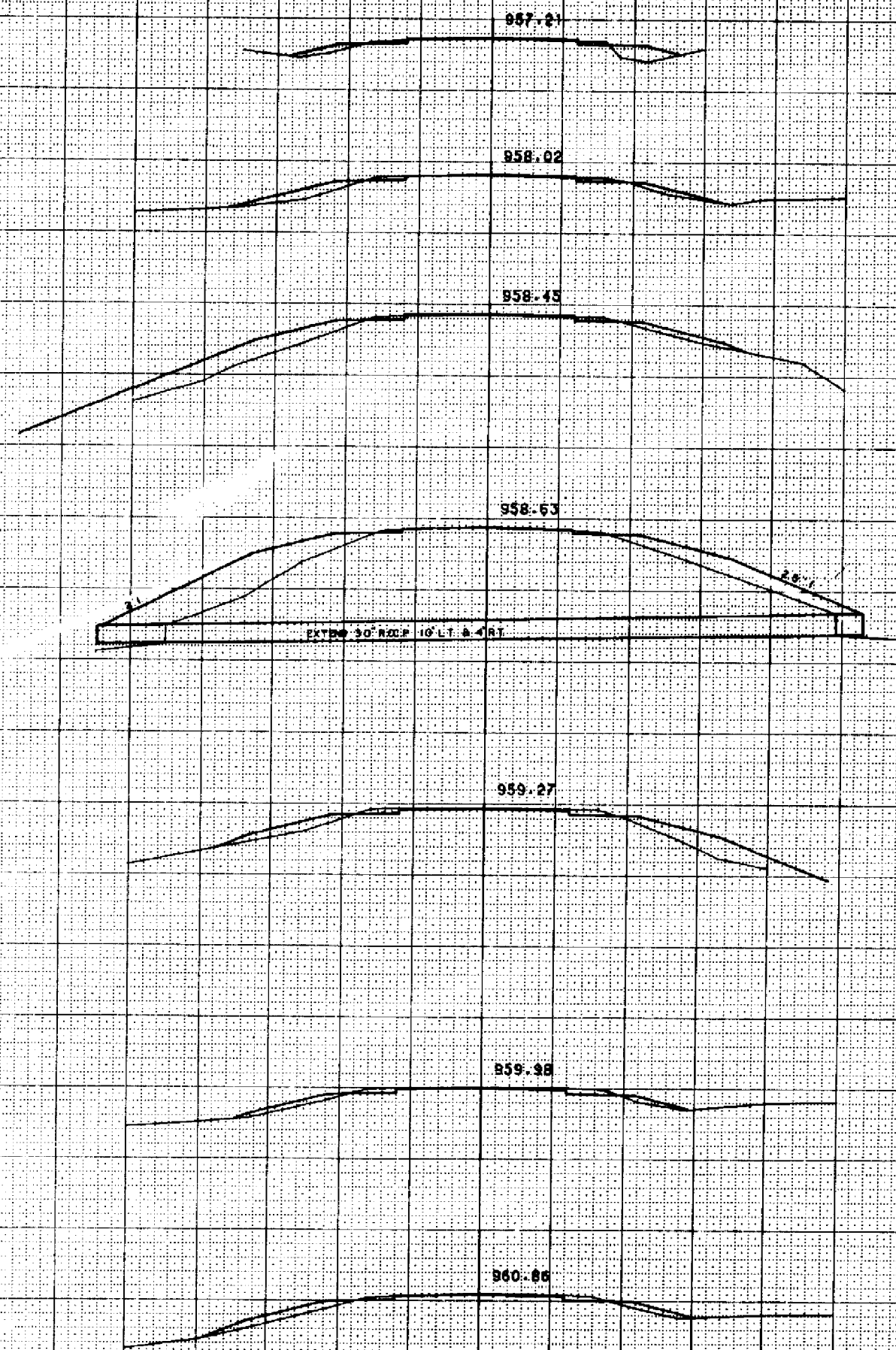
STATE PROJECT NUMBER 560-03-72
SHEET NO. 11



970
318+00
970
317+00
970
316+00
970
315+00
970
314+00
970
313+00
970
312+00
970
311+00
970

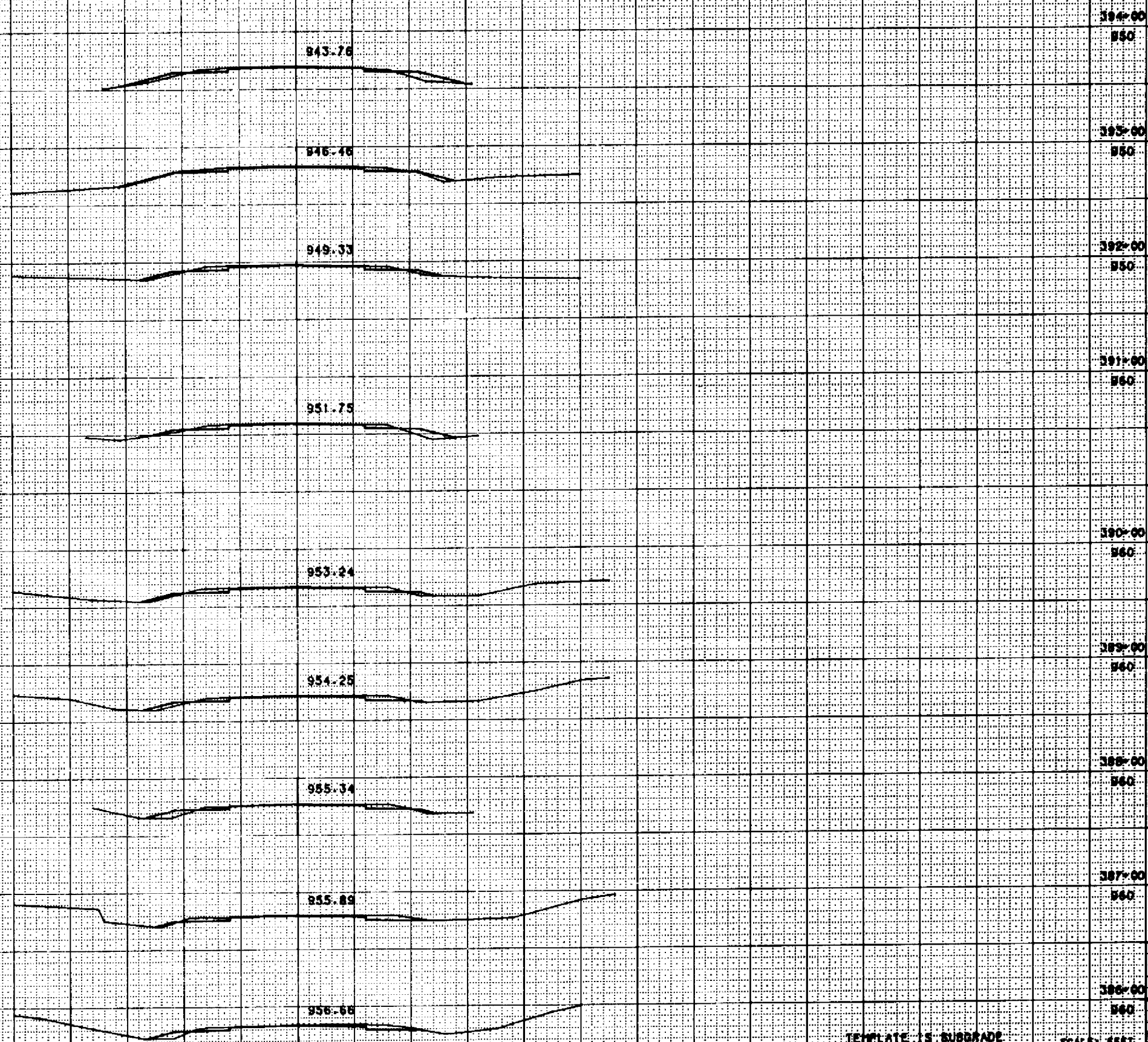
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PRINTED ELEV. IS SUBGRADE
SHEET NO. 11
SCALE: FEET
1:5000

STATE PROJECT NUMBER 1560-03-72 317

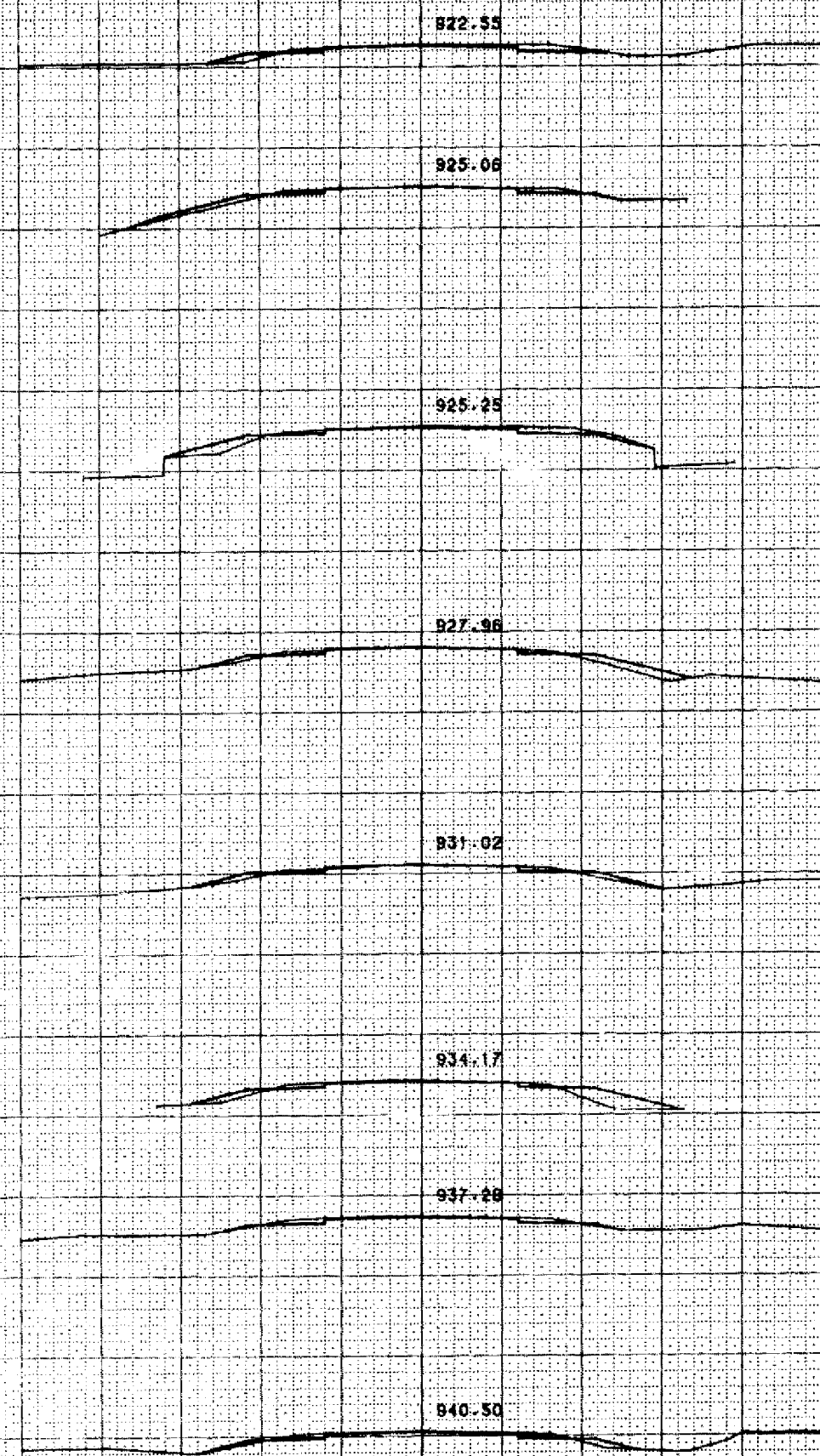


TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SHEET NO. 12 1560037219



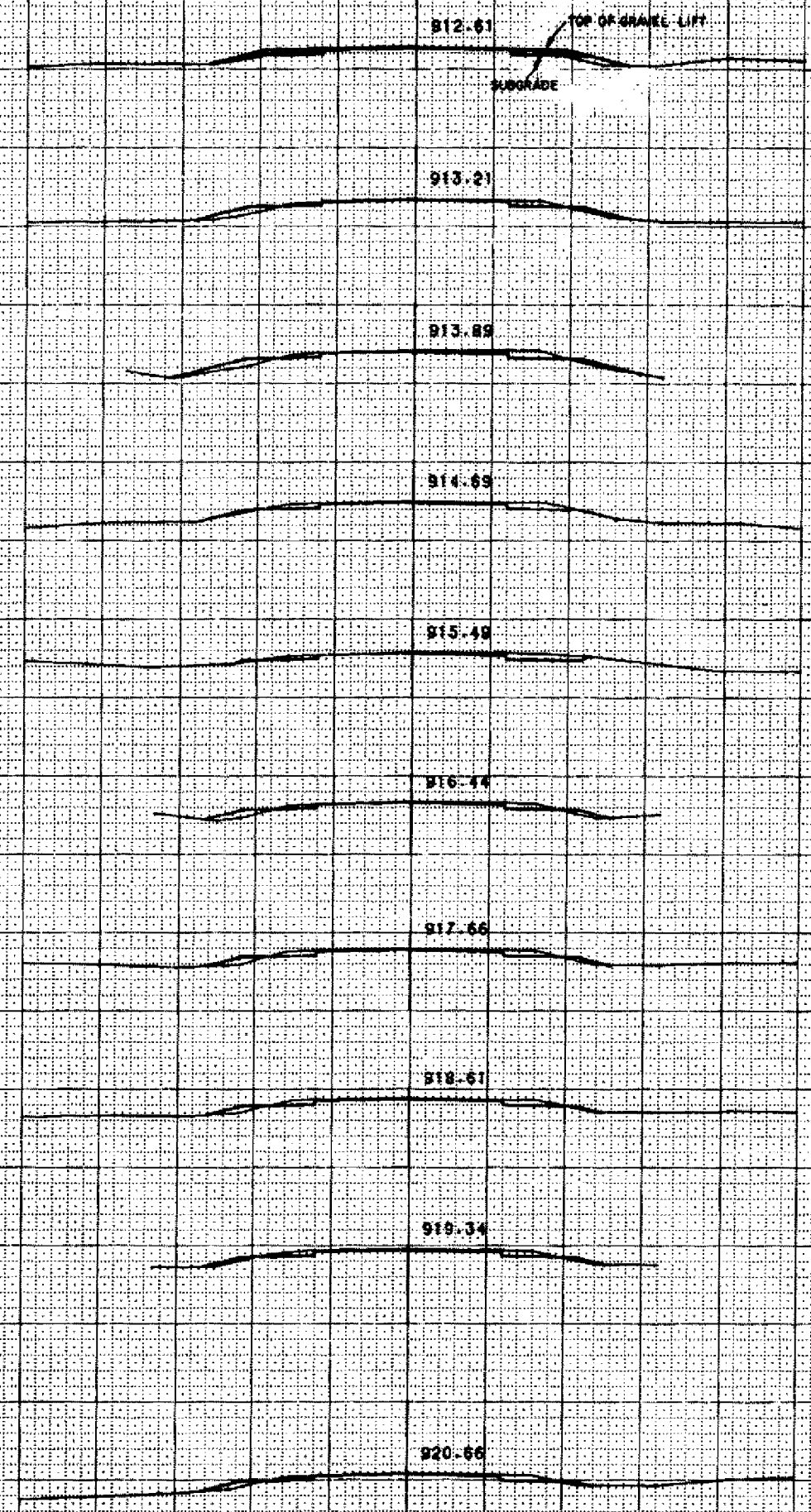
STATE PROJECT NUMBER	SHEET
1560-03-72	9/19



930
400+00
930
399+00
930
399+00
930
398+00
940
397+00
940
396+00
940
395+00
950
34

D/45

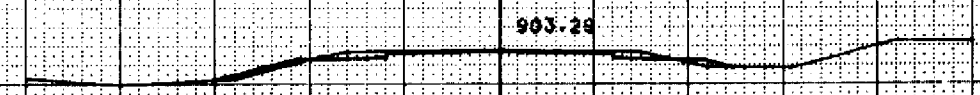
STATE PROJECT NUMBER	156003-72
DATE	11/1/72



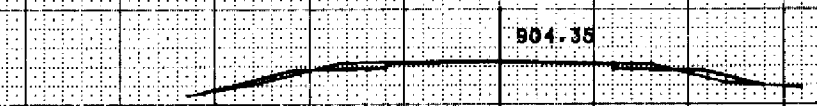
910
410+00
910
409+00
920
408+00
920
407+00
920
406+00
920
405+00
920
404+00
920
403+00
920
402+00
930
401+00

418+00 22/45

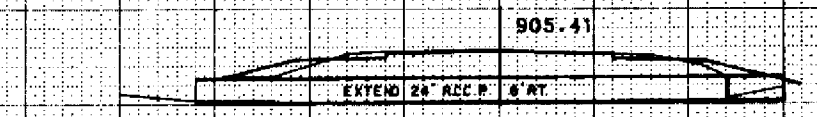
STATE PROJECT NUMBER 1560-03-72
921



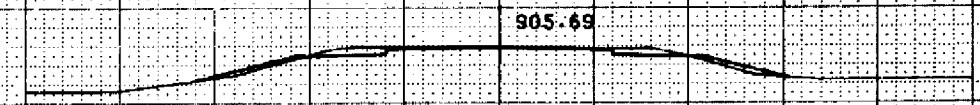
418+00
510



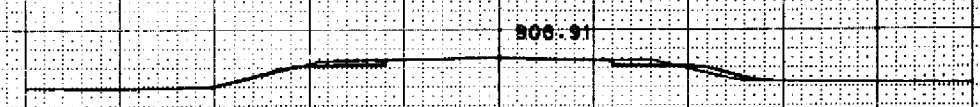
417+32
510



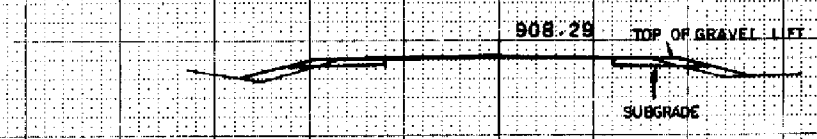
417+00
510



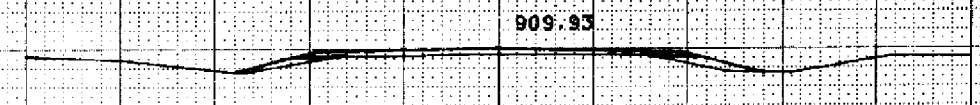
416+00
500



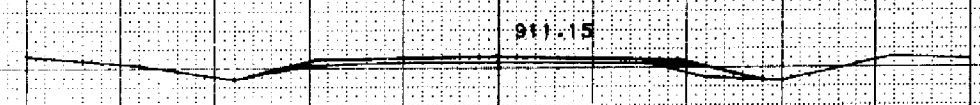
415+00
500



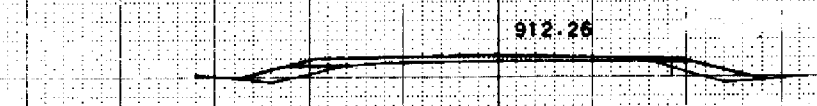
414+00
500



413+00
510



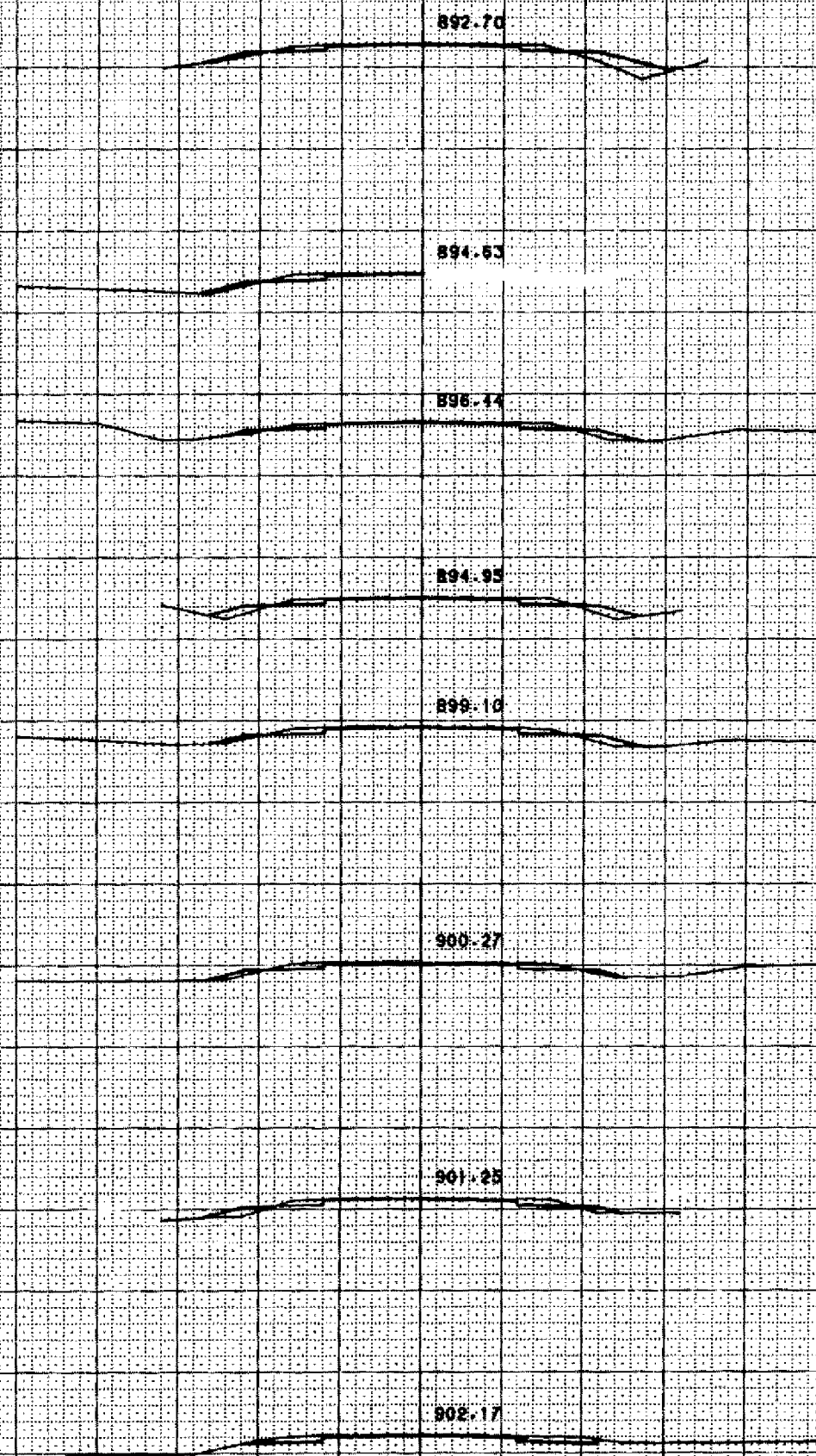
412+00
510



TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SHEET NO 15 6 1560037219
SCALE: FEET

27/15

STATE PROJECT NUMBER	1560-03-72
DATE	9-22



800

426+00

800

425+00

800

424+00

800

423+00

800

422+00

810

421+00

810

420+00

810

20

10

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

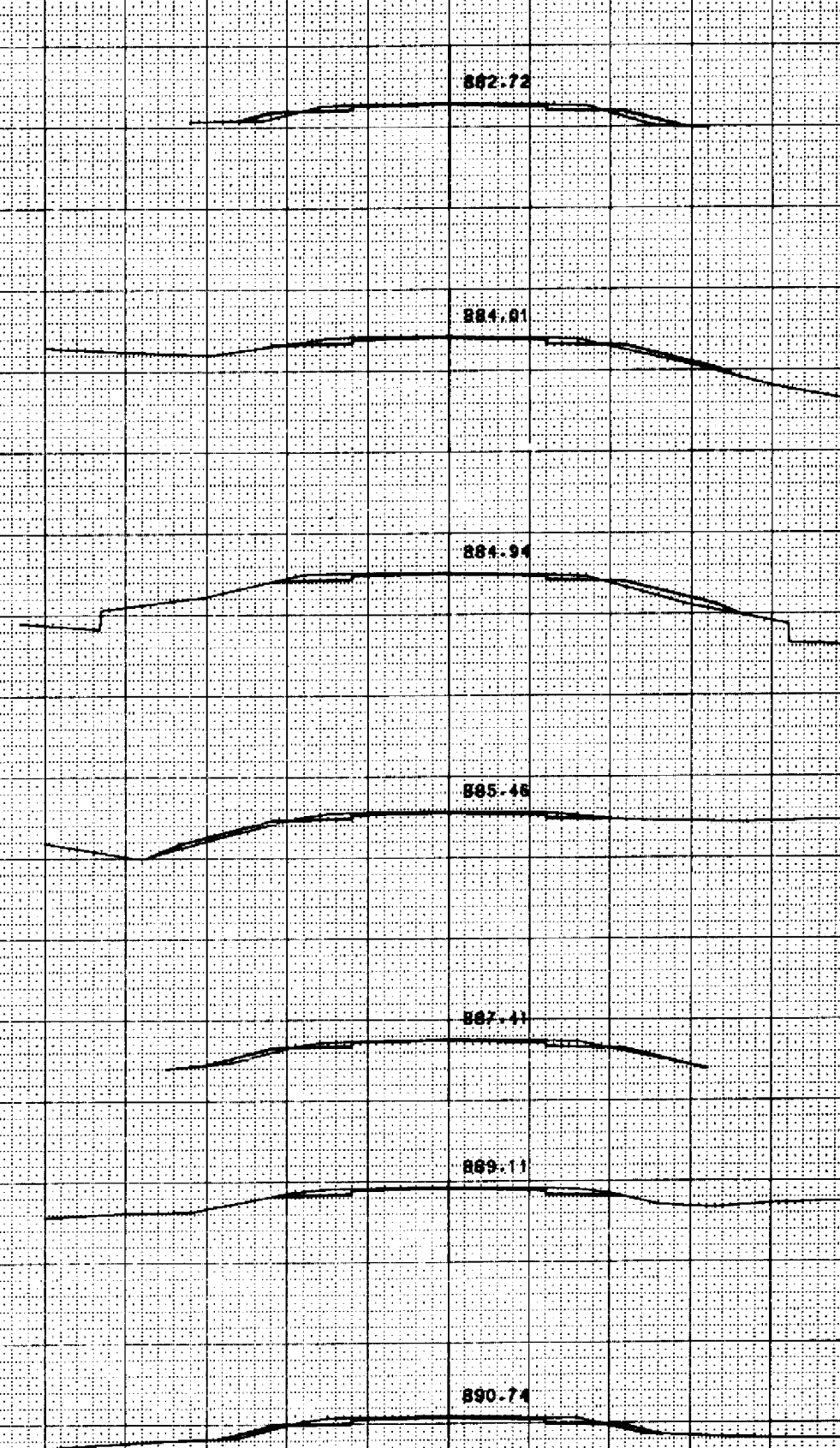
0 10 20

SHEET NO 17

1560037219

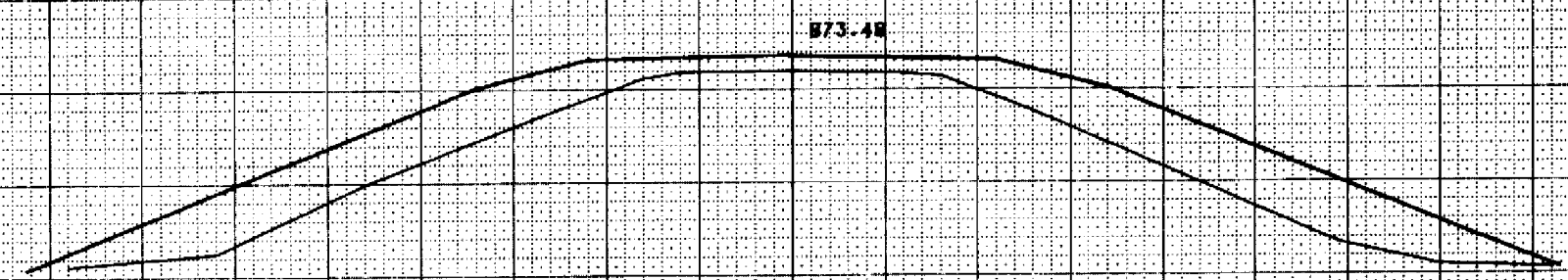
24/45

STATE PROJECT NUMBER	SHEET
1560-03-72	9/23

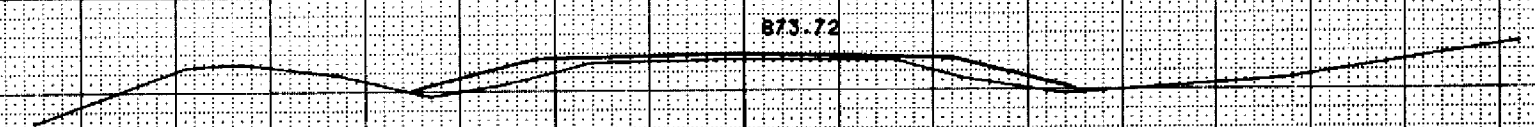


433+00
500
432+00
500
431+29
500
431+00
500
430+00
500
429+00
500
428+00
500
427+00
500

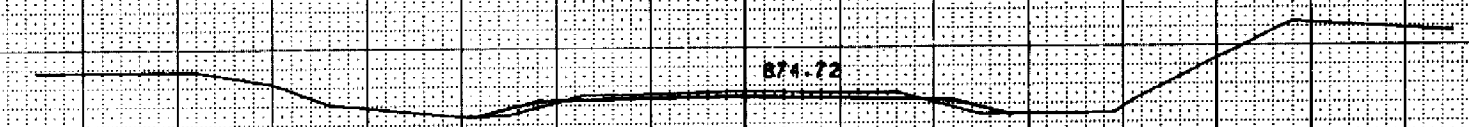
STATE PROJECT NUMBER	1560037219
660-05-10	9.24



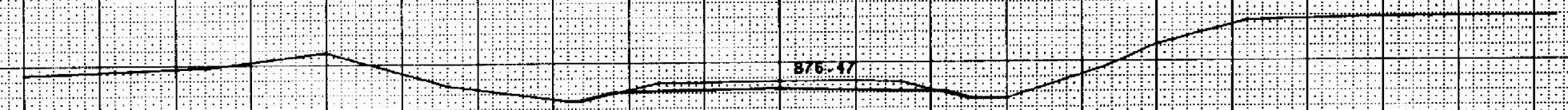
438+00
870



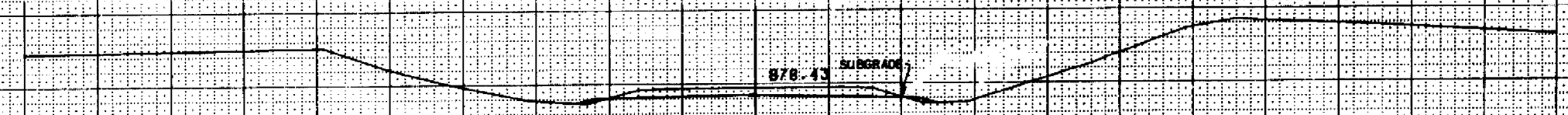
438+00
870



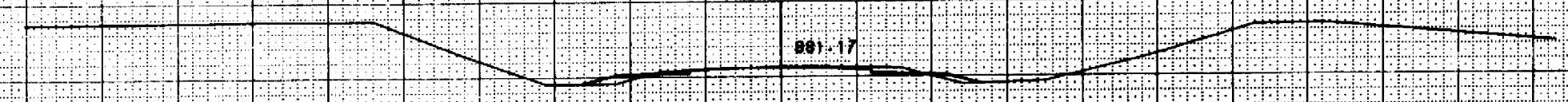
437+00
860



436+00
860



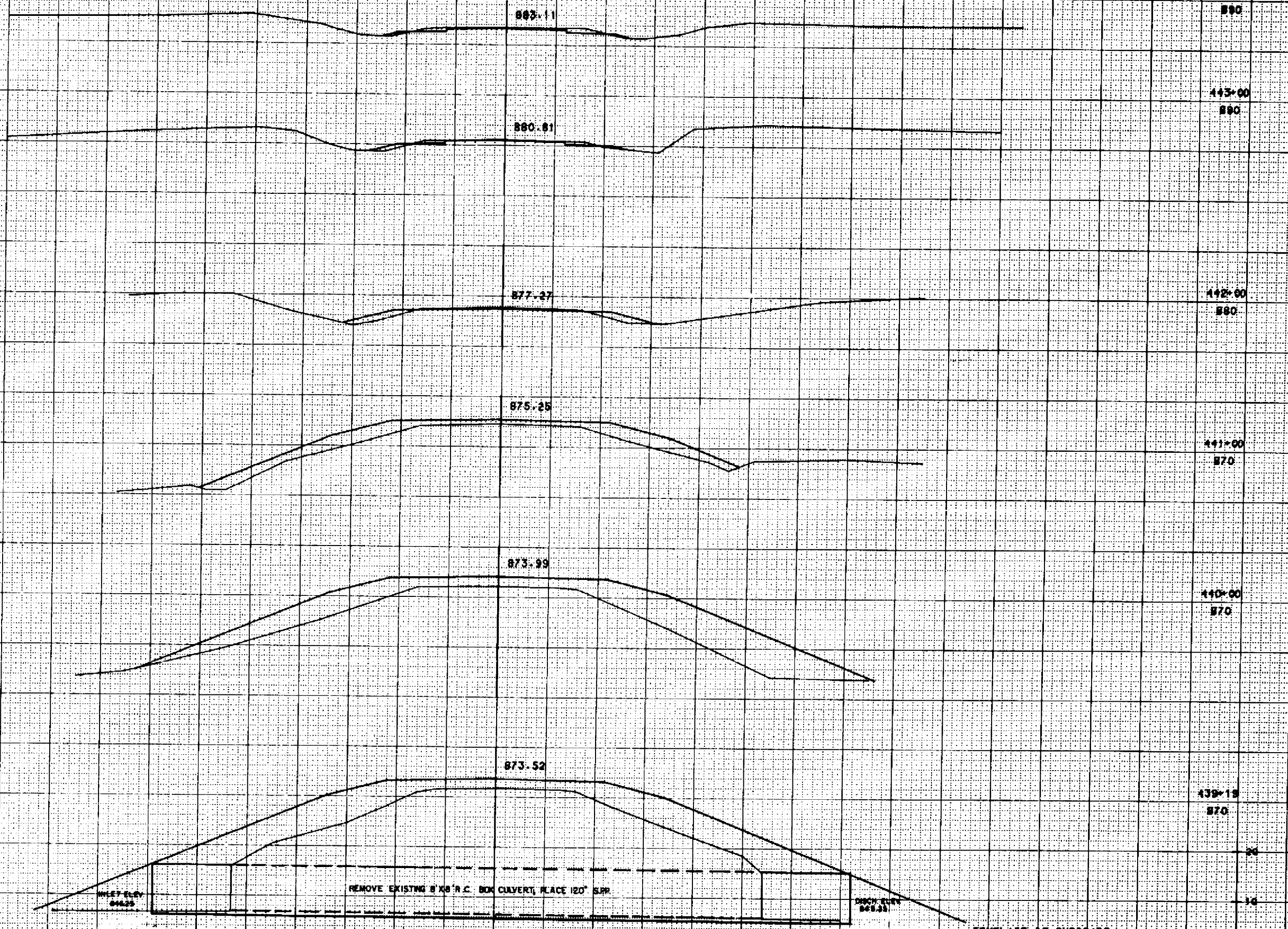
435+00
860



434+00
860

25/45

STATE PROJECT NUMBER	1560-03-72
726	444-00



TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SCALE: FEET
SHEET NO 20 0 1560037218

STATE PROJECT NUMBER
1560-03-72 9.26

879.05

454+00

890

882.18

452+00

890

884.70

451+00

890

886.09

450+00

890

887.33

449+00

890

888.23

448+00

890

888.03

447+00

890

887.51

446+00

890

886.69

445+00

890

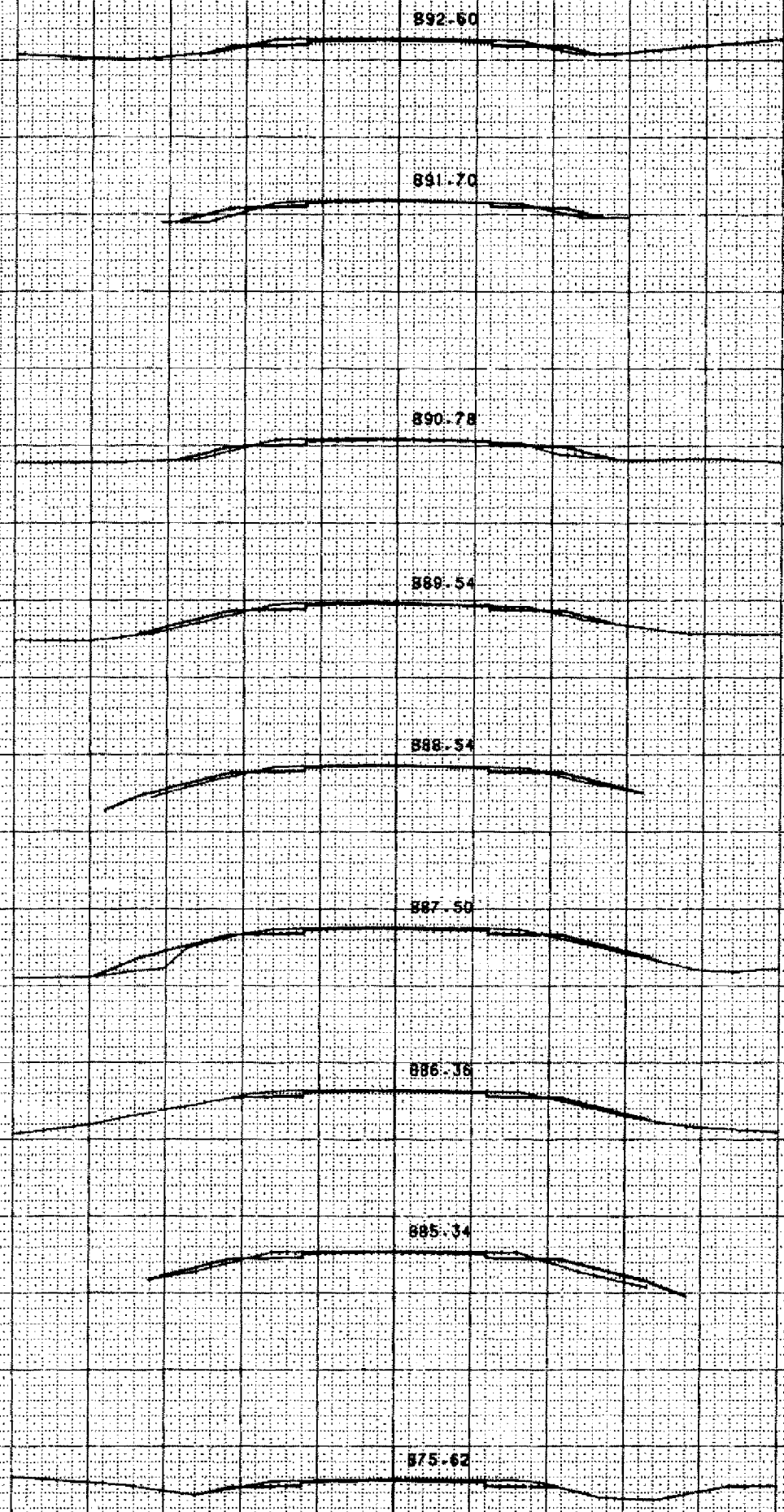
885.38

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

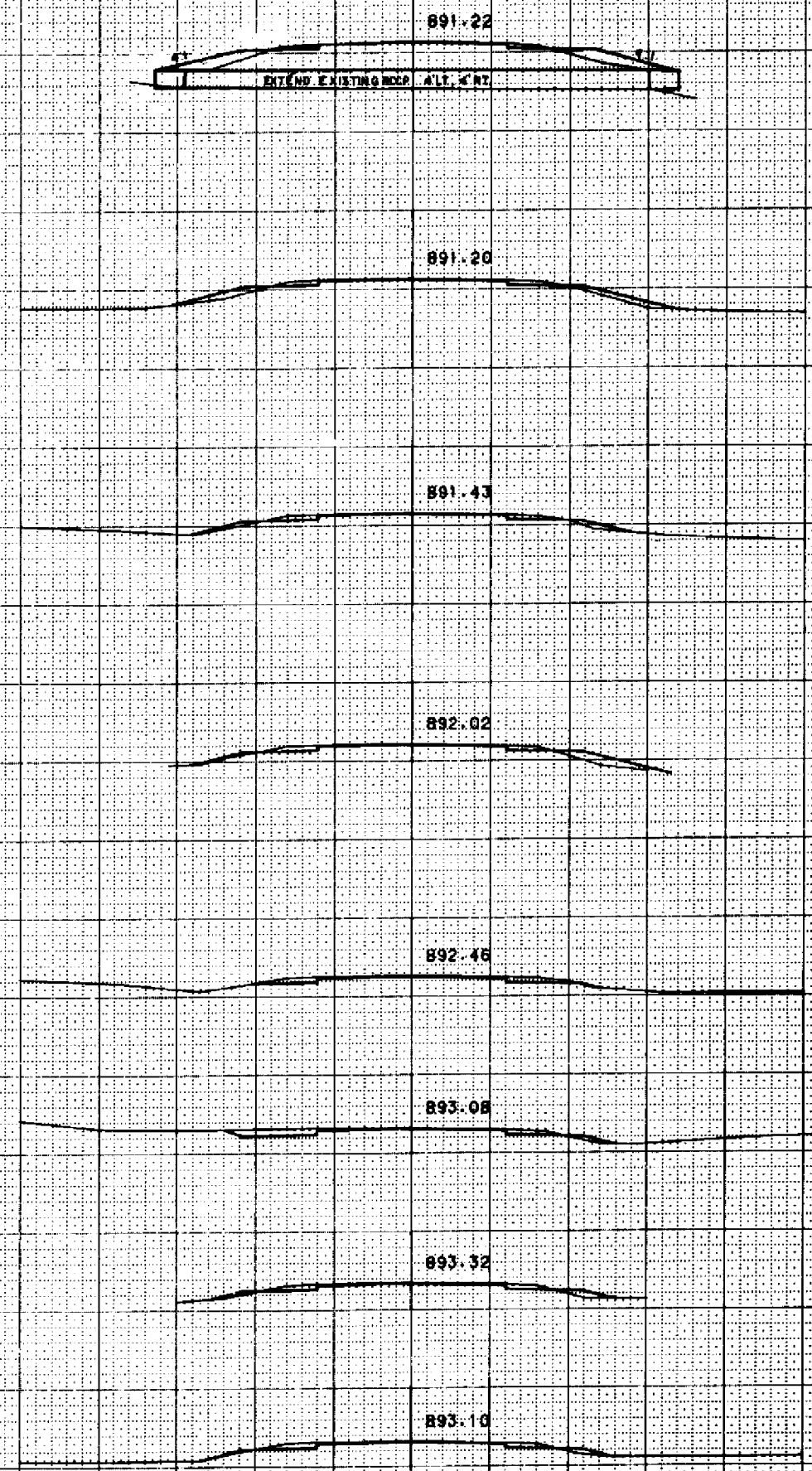
SHEET NO. 21

1560037219



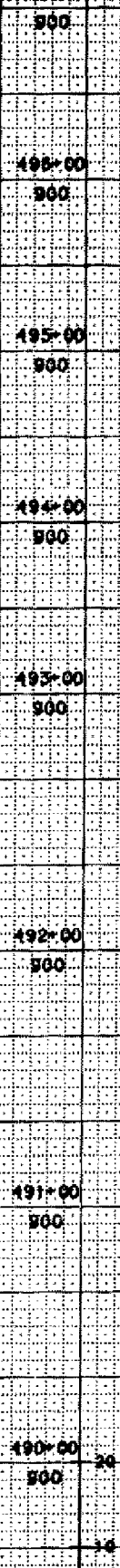
17/15

STATE PROJECT NUMBER
1560-03-72
928



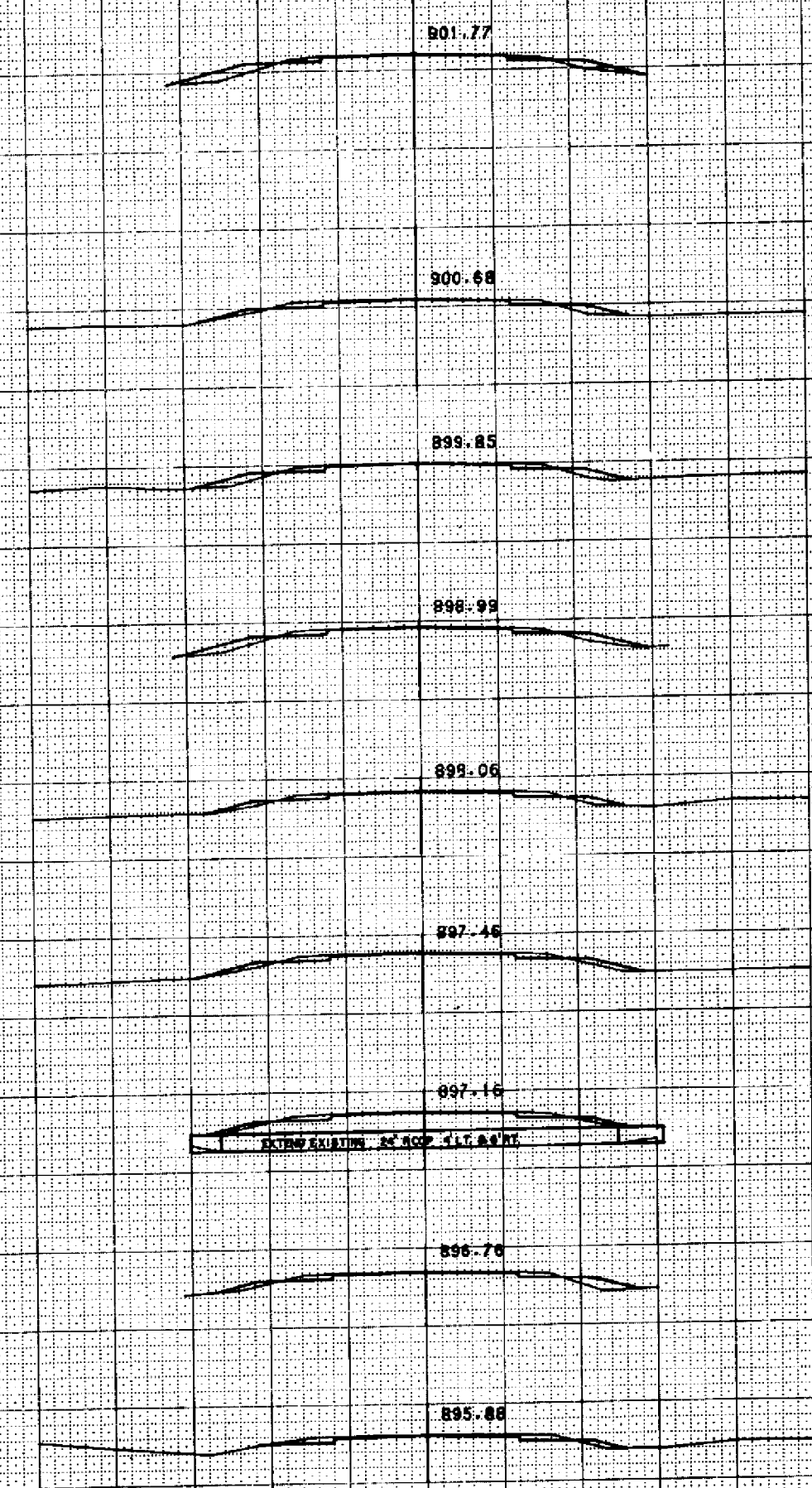
TEMPLATE 1'S SUBGRADE
PRINTED ELEV IS SUBGRADE
SHEET NO. 23
SCALE: FEET
1560037219

STATE PROJECT NUMBER	1560-03-72
	529



SHEET NO. 24 OF 1560037219

STATE PROJECT NUMBER	
1560-03-72	930

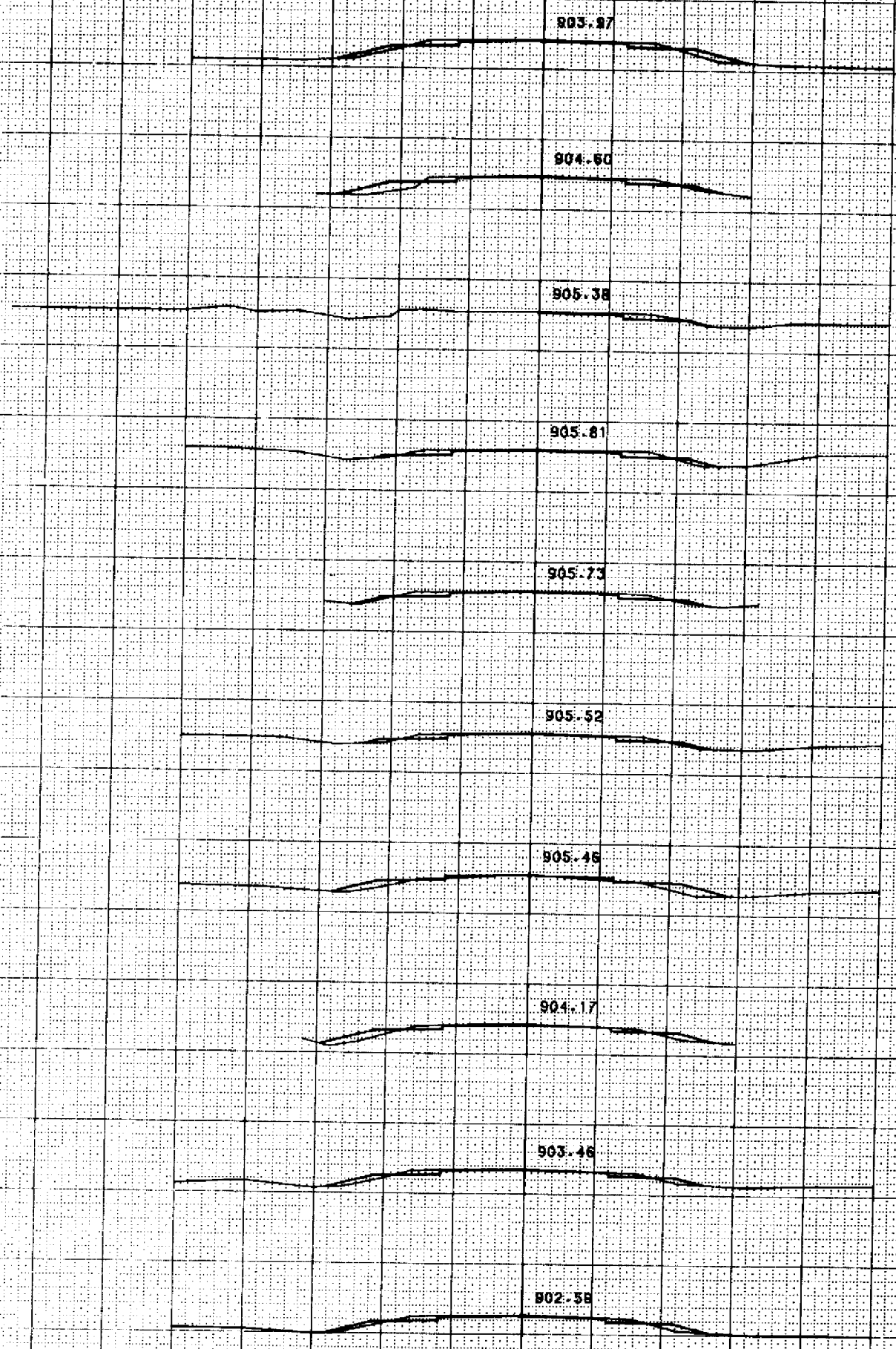


910
504+00
910
503+00
900
502+00
900
501+00
900
500+00
900
499+00
900
498+00
900
497+00
900
496+00
900
495+00
900

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SHEET NO 25
SCALE FEET
1" = 10'
1" = 25'

53/45

STATE PROJECT NUMBER 15603
1560-03-72 2.31



514+00
910

513+00
910

512+00
910

511+00
910

510+00
910

509+00
910

508+00
910

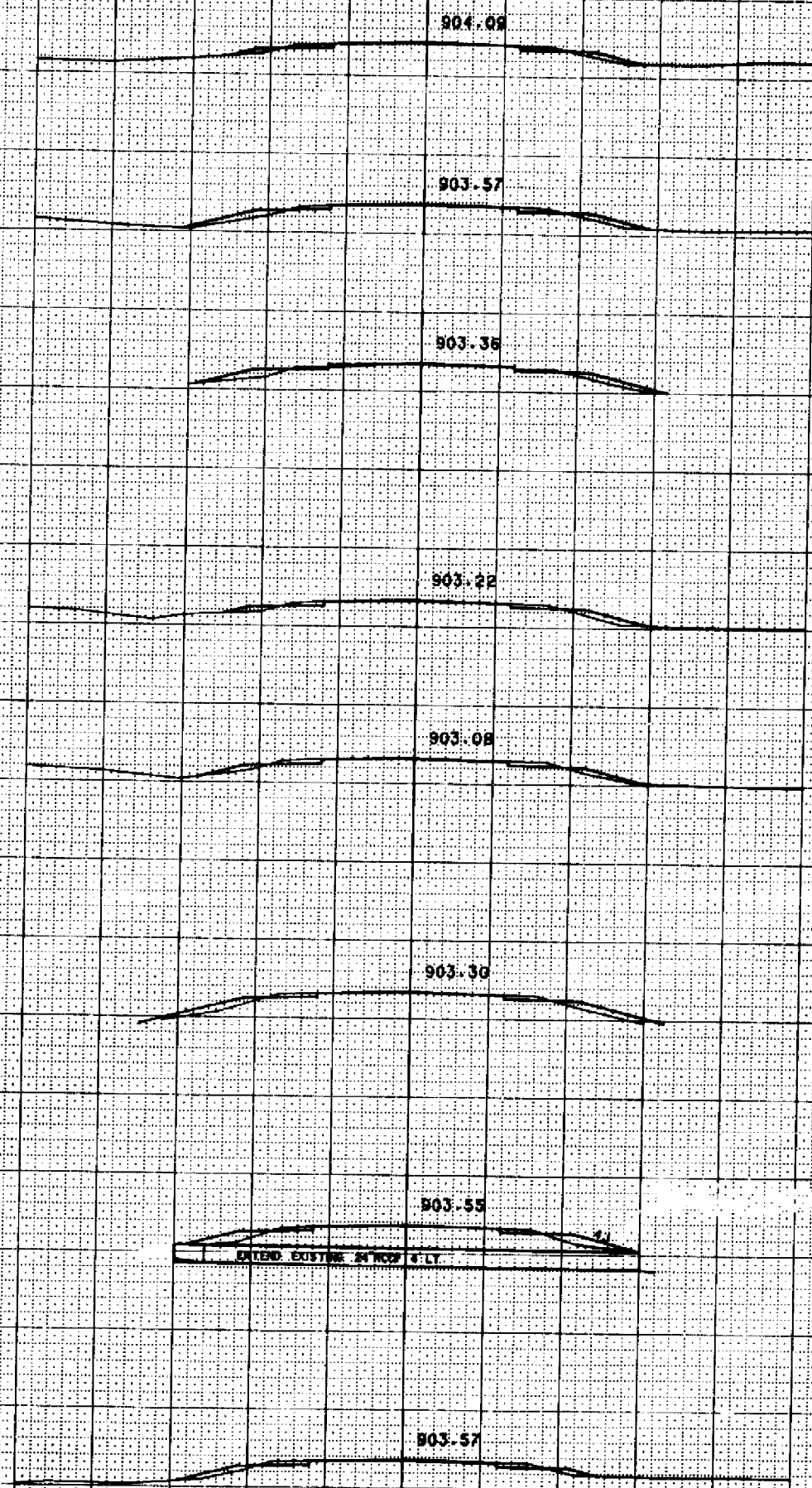
507+00
910

506+00
910

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SHEET NO 28
SCALE: FEET
1560037219

30/15

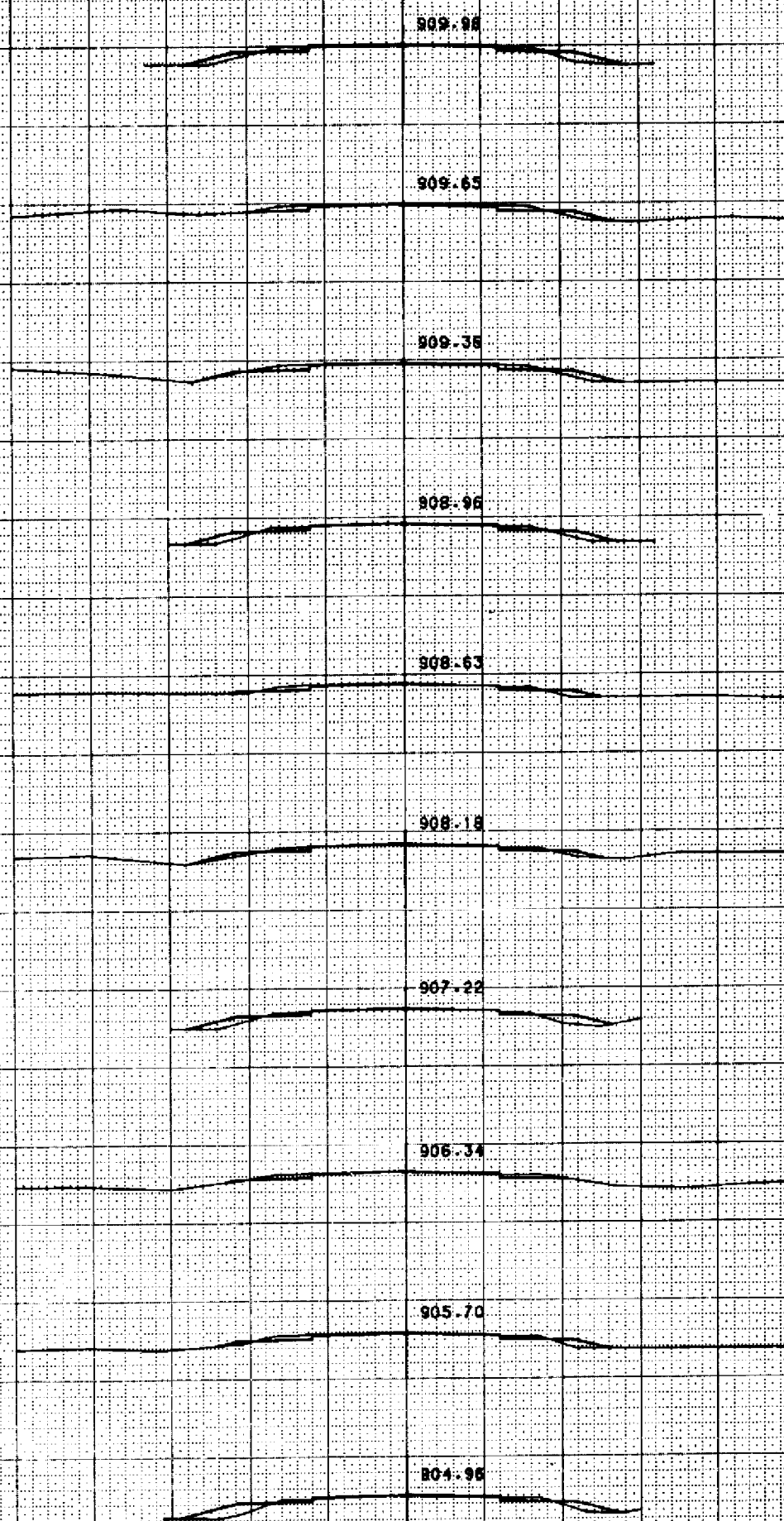
STATE PROJECT NUMBER	1560-03-72
DATE	9/52



810
821+00
810
820+00
810
819+00
810
818+00
810
817+00
810
816+24
810
816+00
810

34/45

STATE PROJECT NUMBER	
1560-03-72	532-00



531+00
910

530+00
910

529+00
910

528+00
910

527+00
910

526+00
910

525+00
910

524+00
910

523+00
910

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SHEET NO 28

SCALE: FEET

1560037219

STATE PROJECT NUMBER 1560-03-72 7.34

911.35

911.07

910.83

910.57

910.36

910.38

910.29

EXTEND EXISTING 2' DEEP 6' L.F. 4' DE

TEMPLATE 1/8" SUBGRADE
PRINTED ELEV 1/8" SUBGRADE
SHEET NO 21 SCALE: FEET 1:5000 1560037219

24/11

545+00

STATE PROJECT NUMBER	DATE
1560-03-72	9/35

908.41

545+00

910

907.57

544+00

910

908.92

543+00

920

910.08

542+00

920

910.74

541+00

920

911.16

540+00

920

911.34

539+00

920

20

911.48

10

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

SHEET NO. 30
1560037219

STATE PROJECT NUMBER	1560-03-72
DATE	9/30



TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

SHEET NO. 31 OF 31
PROJECT NO. 1560037219

847+00
810

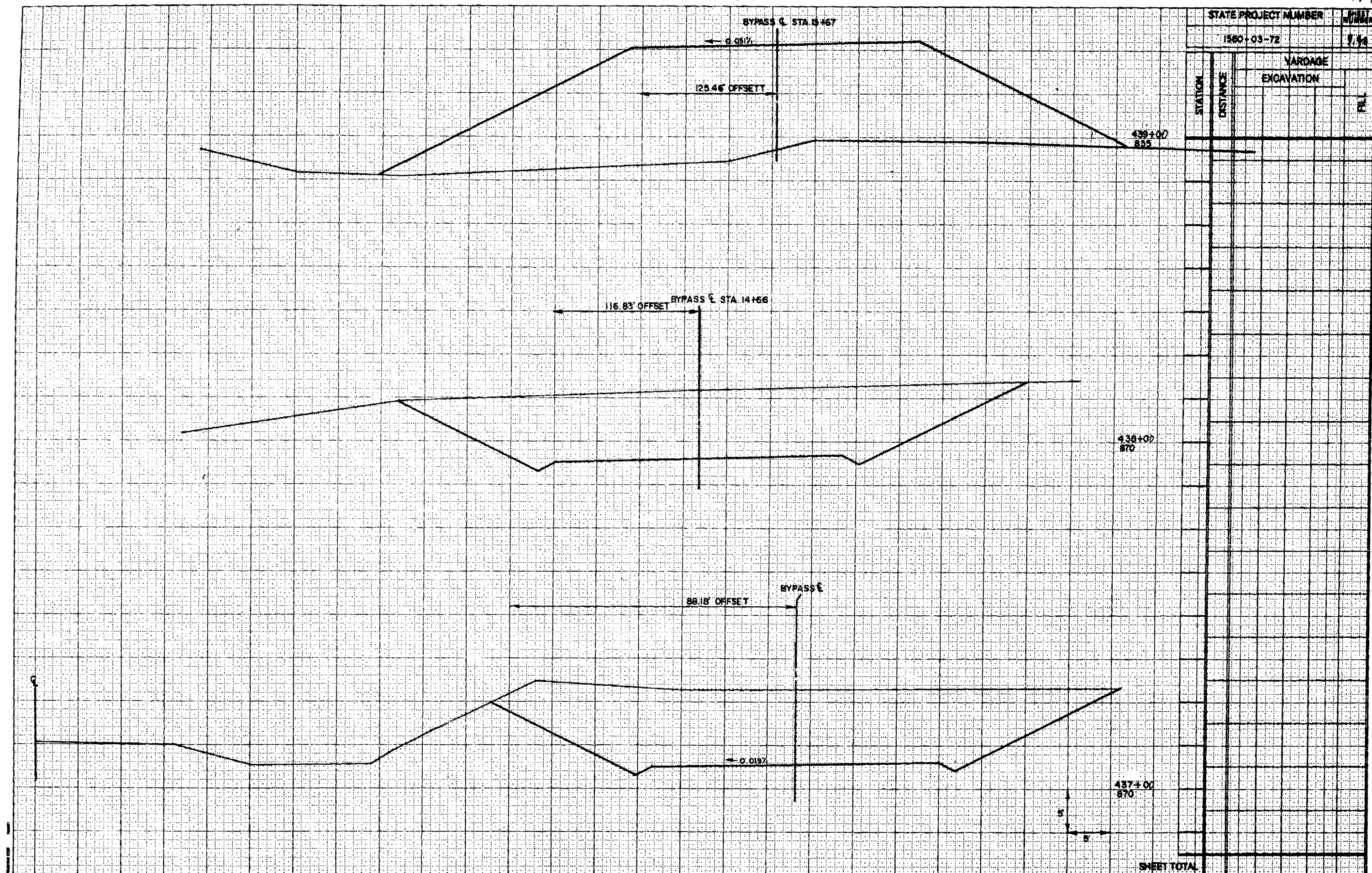
Catalog No. 2135-C121

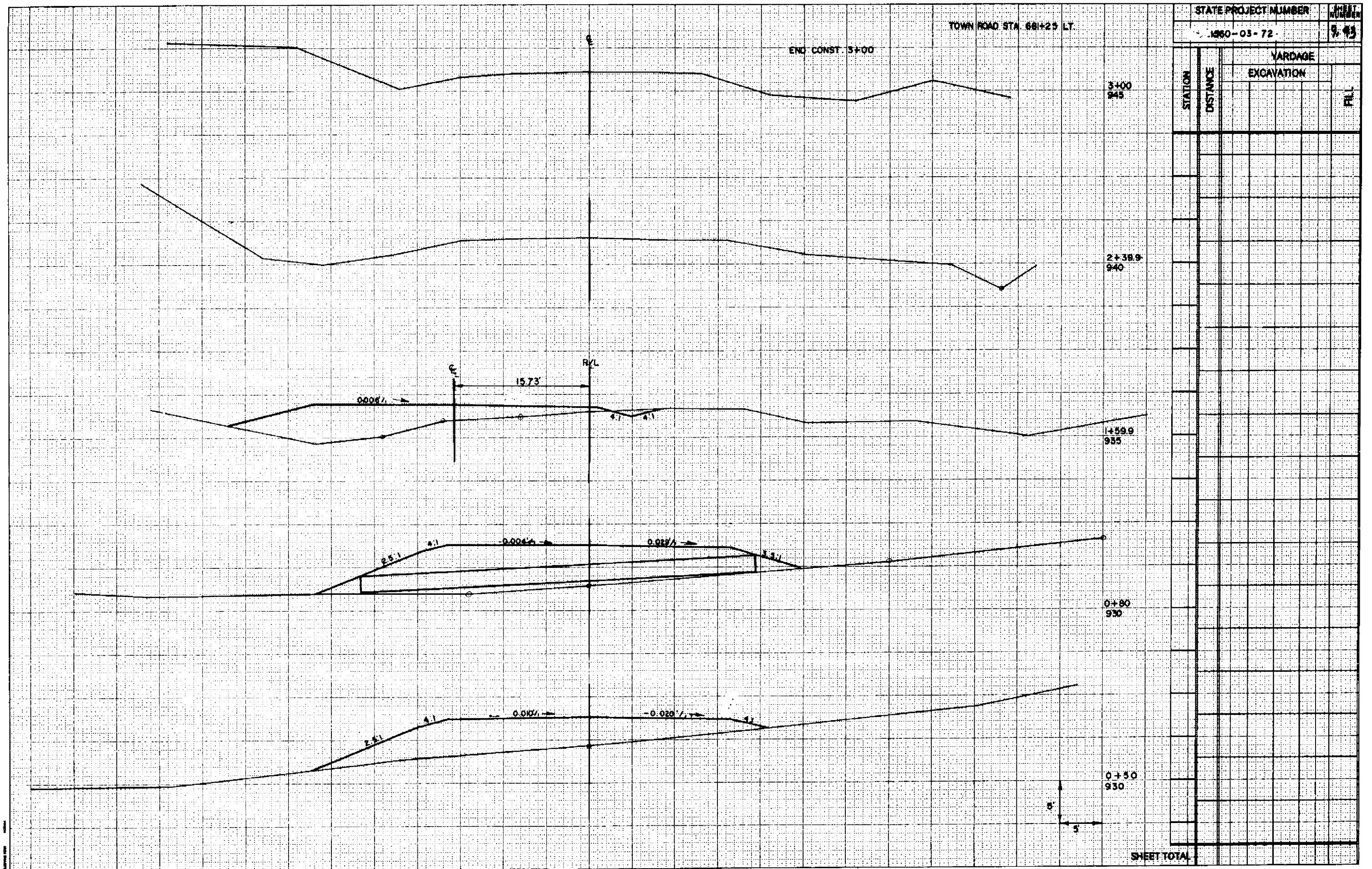
STATE PROJECT NUMBER
1580-03-78
SHEET NUMBER
235

STATION
DISTANCE
VARIANCE
EXCAVATION
RE



SHEET TOTAL





TN. RD. STA 730+60 LT.

STATE PROJECT NUMBER

1560-03-72

- SHEET -

944

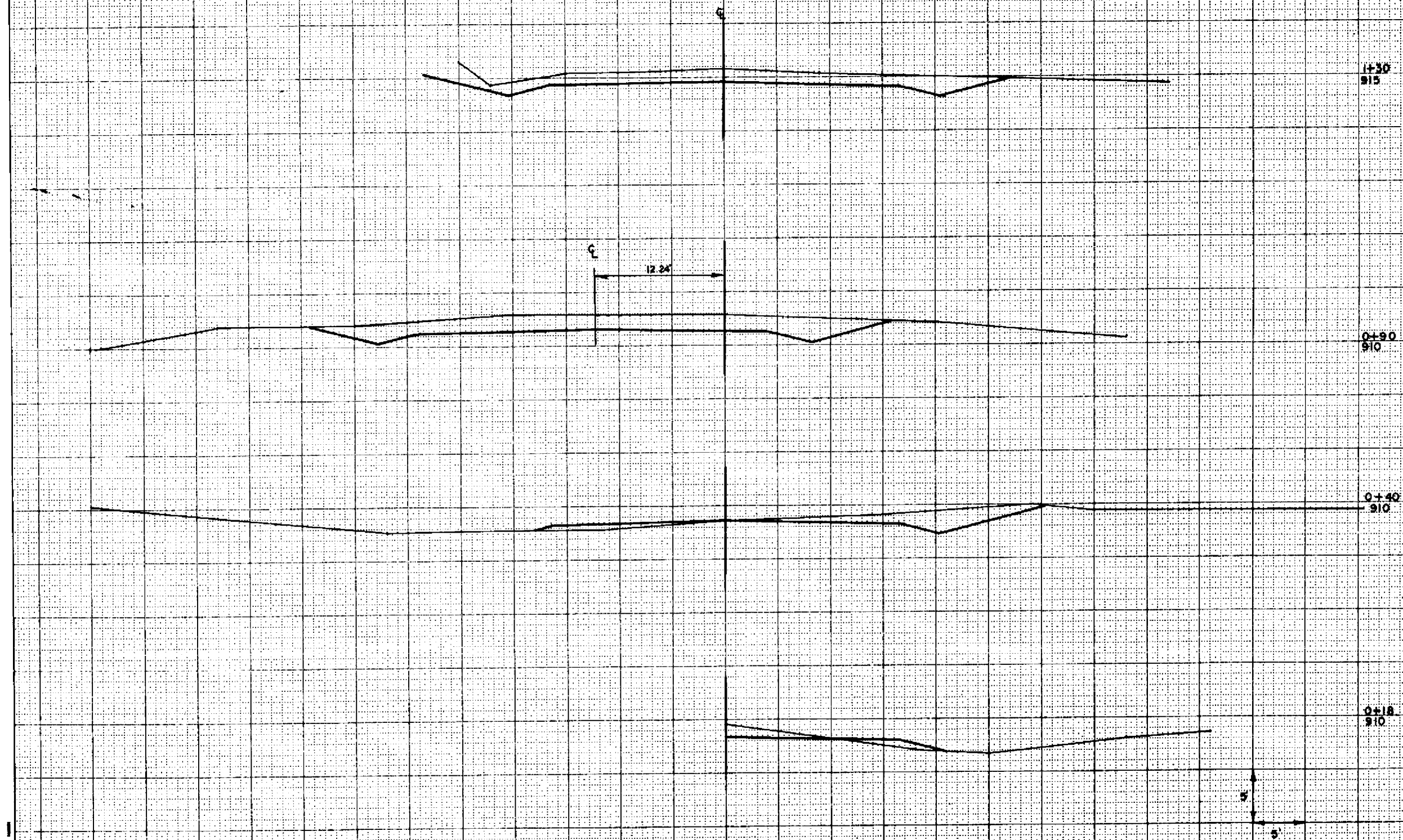
YARDAGE	
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EXCAVATION

STATION

DISTANCE

100



SHEET TOTAL