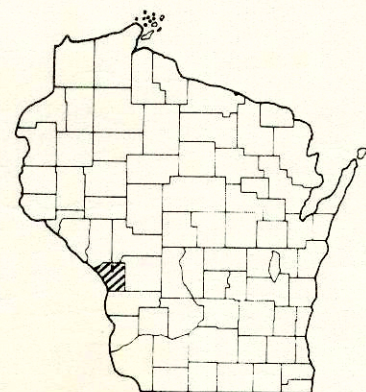


Index of Sheets

Sheet No. 1	Title
Sheet No. 2-2.2	Typical Cross Sections
Sheet No. 3	Estimate of Quantities
Sheet No. 3A	Miscellaneous Quantities
Sheet No. —	Right of Way Plat
Sheet No. 4-6	Plan and Profile Sta. 80+00 to Sta. 154+50
Sheet No. 7-7.4	Standard Details
Sheet No. 8-10	Drainage Structures
Sheet No. 11-35	Cross Sections



Design Designation

A. D. T. (1969)	95
A. D. T. (1989)	120
D. H. V.	19.2
D.	50%
T.	10.0 A. D. T.
V.	50 M. P. H.

DESIGN CLASS 2

Conventional Signs

State Line	-----	Culverts in Place	-----
County Line	-----	Culverts Required	-----
Township or Range Line	-----	Drop Inlet	-----
Section Line	-----	Power Pole	-----
New Right of Way Line	-----	Telephone or Telegraph Pole	-----
Present Right of Way Line	-----	Right of Way Markers	-----
Wire Fence { Woven	-----	Reference Stake for Hubs Only	-----
Barbed	-----	Marsh	-----
Lot Line	-----	Hedge	-----
Corporate or City Limits	-----	Trees	-----
Property Line	-----	Ground Elevation	Datum Line 73.9
Traveled Way or P. E.	-----	Grade Elevation	Datum Line 76.16
Railroads	-----		
Base or Survey Line	-----		

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

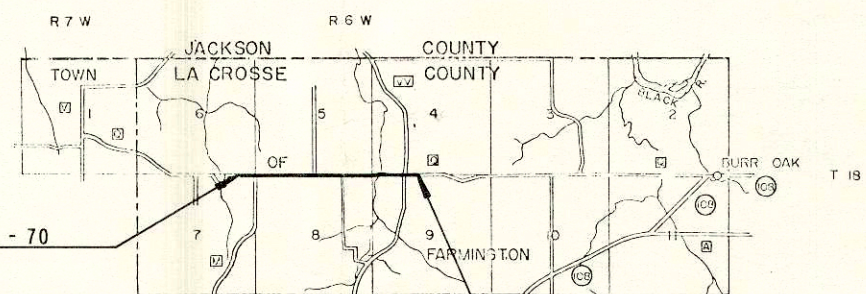
C.T.H. "V" — S.T.H. 108 ROAD

C.T.H. "Q"

LA CROSSE COUNTY

PROJECT IDENTIFICATION NUMBER	FEDERAL PROJECT DESIGNATION
7324-1-70	S 1459(3)

Scales { Plan 1 in. = 100 ft.
Profile Hor. 1 in. = 100 ft. Vert. 1 in. = 10 ft.
Cross Sections Hor. 1 in. = 10' Vert. 1 in. = 10'



BEGINNING OF PROJECT S 1459(3) / 7324 - 1 - 70
STA. 80+00
N = 751,838.36 (± 200')
E = 2,298,233.073 (± 200')
500 Feet West of the Southwest Corner of Section 5, T 18 N, R 6 W.

END OF PROJECT S 1459(3) / 7324 - 1 - 70
STA. 154+50
N = 751,738.25 (± 200')
E = 2,290,781.34 (± 200')
1622 Feet East of the Southwest Corner of Section 4, T 18 N, R 6 W.

Layout
Scale 1 Mile

Total Net Length of Centerline = 1.41 Mi.

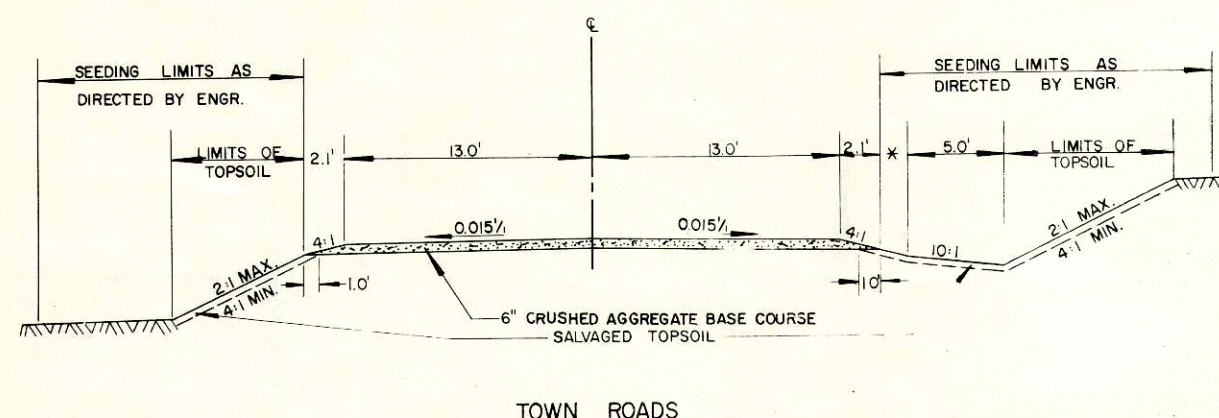
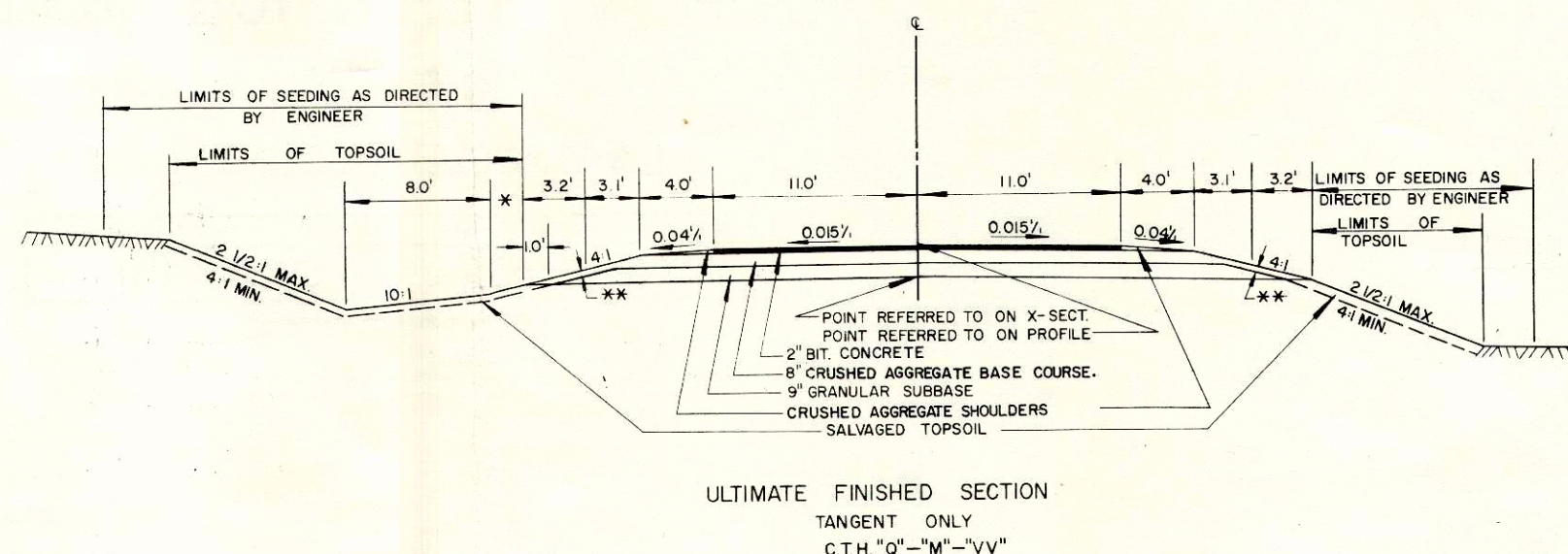
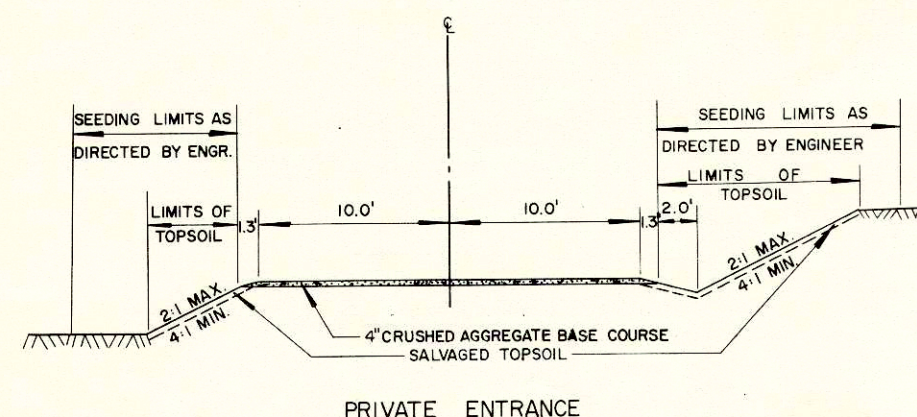
NOTE: COORDINATES SHOWN ARE WISCONSIN COORDINATE SYSTEM SOUTH ZONE COORDINATES AND THEY WERE SCALED FROM U. S. G. S. TOPOGRAPHIC MAP, NORTH BEND WISCONSIN, QUADRANGLE FOR IDENTIFICATION ONLY

32.6 - 1459.0 - 11.3

Sheet Number	Total Sheets
1	35

APPROVED FOR	
LA CROSSE COUNTY	By
2/27/1969 <i>Carol H. Smith</i>	
Date	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor <i>D.E.K.</i>	Note Book <i>LL</i>
District Computer <i>P.E.S.</i>	M. O. Checker <i>LL</i>
District Checker	Correct
Correct:	
Date <i>3-3-69</i>	<i>R. J. Fidler</i> District Engineer
Recommended for Approval:	
Date <i>3/5/69</i>	<i>E. J. Byrnes</i> Chief Design Engineer
Approved:	
Date <i>3/16/69</i>	<i>W. J. Barmister</i> State Highway Engineer
U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION BUREAU OF PUBLIC ROADS	
REGION 4 WISCONSIN DIVISION	
Approved:	
Date	Division Engineer

S1459(3)



- ** 4" CRUSHED AGGREGATE BASE COURSE
- * NORMALLY 0 FT. INCREASE THIS DIMENSION TO ATTAIN SPECIAL DITCH GRADES.

APPLICABLE STANDARD DETAIL DRAWINGS

- 6-2.6.7 APRON ENDWALLS FOR CULVERT PIPE ARCH
- 7-1.3.5 MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY
- 7-2.4.13 STEEL PLATE BEAM GUARD & STEEL BEAM MEDIAN GUARD
- 7-4.1.5 CONSTRUCTION BARRICADE
- 9-1.1.5 LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

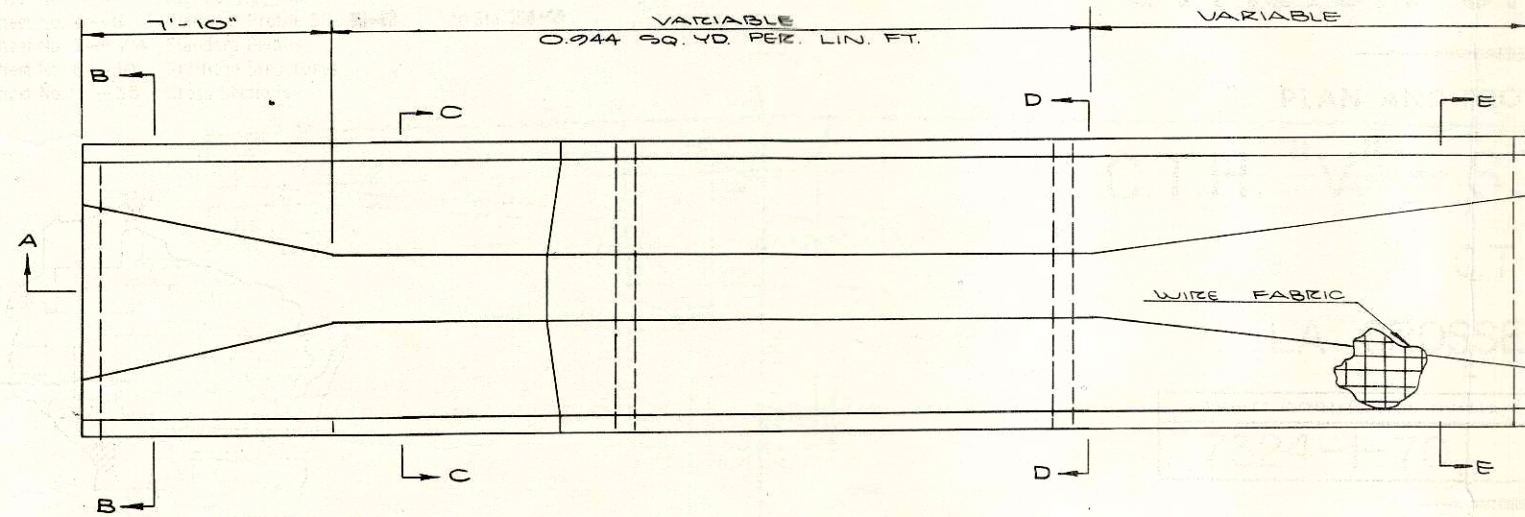
GENERAL NOTES

1. MULCH ALL SLOPES STEEPER THAN 4:1 EXCEPT SANDSTONE SLOPES
2. WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
3. EXACT LOCATION OF ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD
4. SALVAGED TOPSOIL TO BE PLACED AS SHOWN ON THE TYPICAL CROSS SECTIONS TO AN APPROXIMATE DEPTH OF 4" AT THE TIME OF PLACING
5. SEEDING SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER WITHIN THE LIMITS OF THE R/W

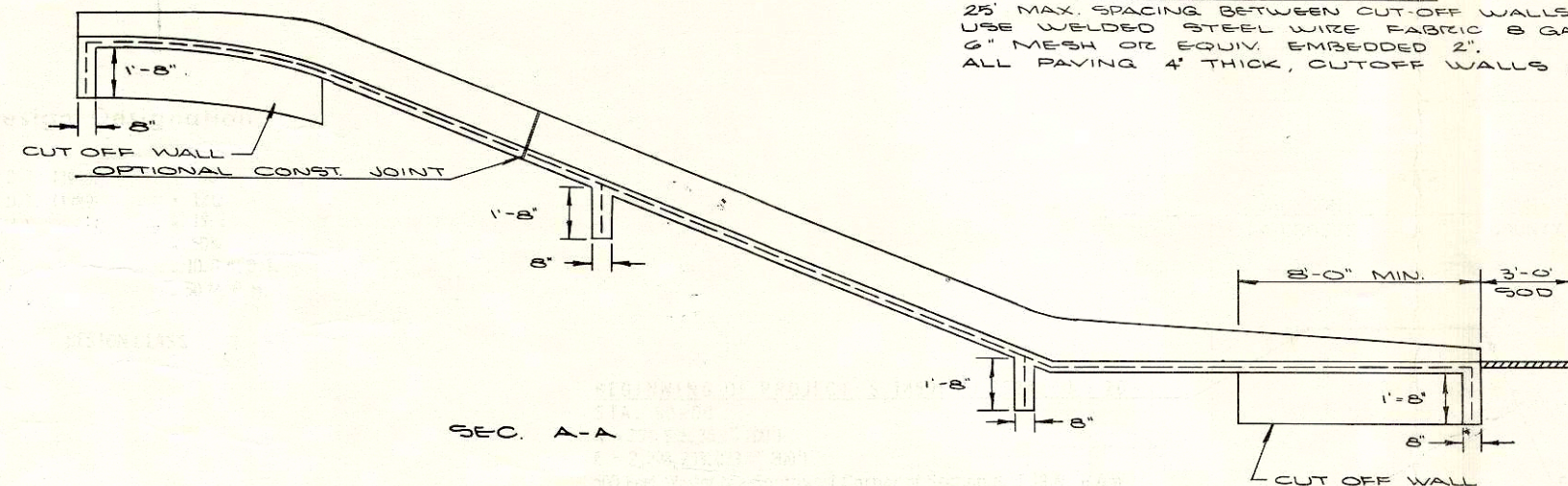
TYPICAL CROSS SECTION
FOR
C.T.H. "Q"-"M"-"VV"
PRIVATE ENTRANCE
TOWN ROADS

Index of Sheets

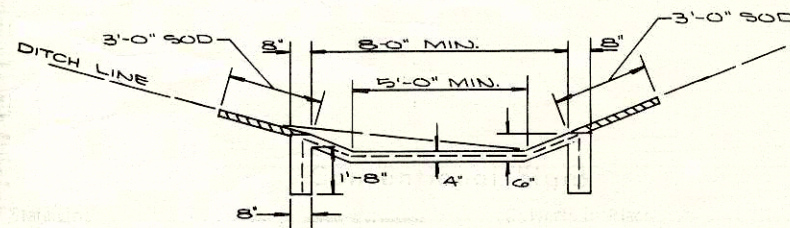
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 Sheet No. 1-2-4
 Sheet No. 1-2-5
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 Sheet No. 1-2-99
 Sheet No. 1-2-100



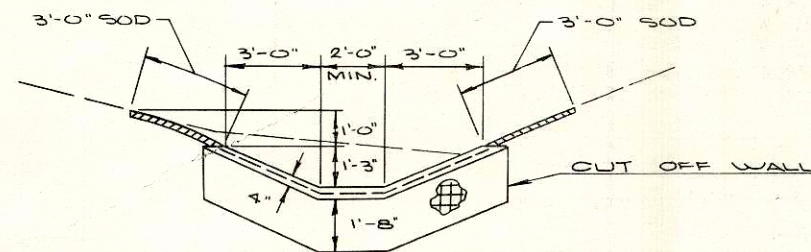
PLAN VIEW



SEC. A-A



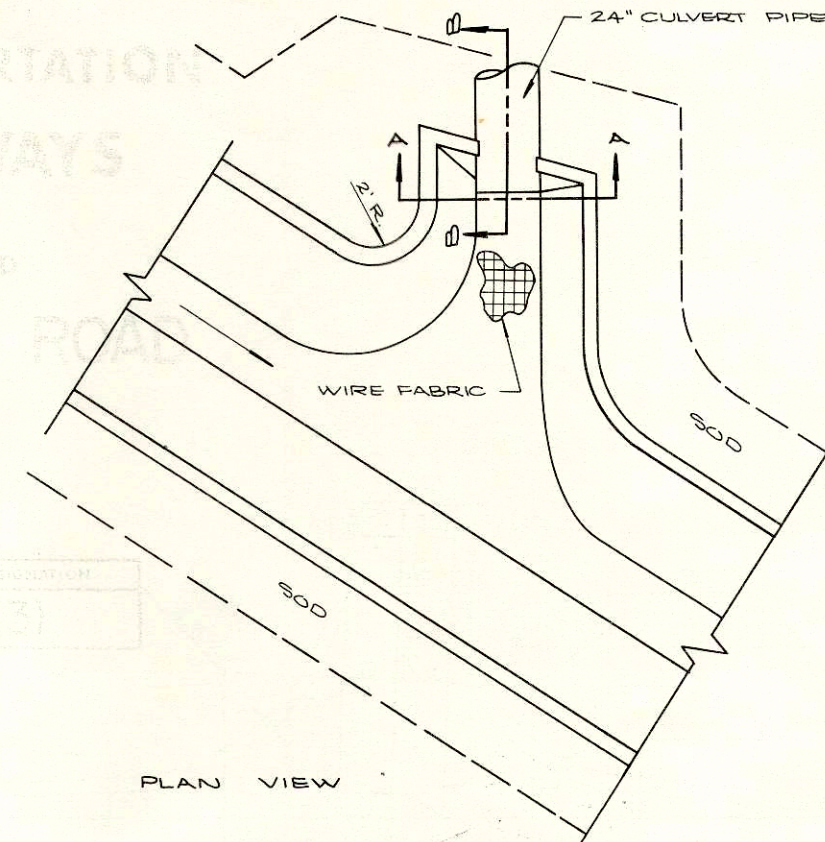
SEC. B-B & E-E



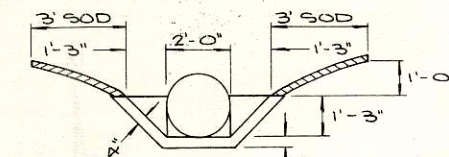
SEC. C-C & D-D

GENERAL NOTES
 25' MAX. SPACING BETWEEN CUT OFF WALLS
 USE WELDED STEEL WIRE FABRIC 8 GAGE -
 6" MESH OR EQUIV. EMBEDDED 2".
 ALL PAVING 4" THICK, CUTOFF WALLS 8" THICK.

TYPICAL CONCRETE SLOPE PAVING FOR DITCHES

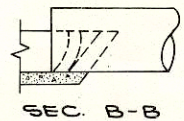


PLAN VIEW



SEC. A-A

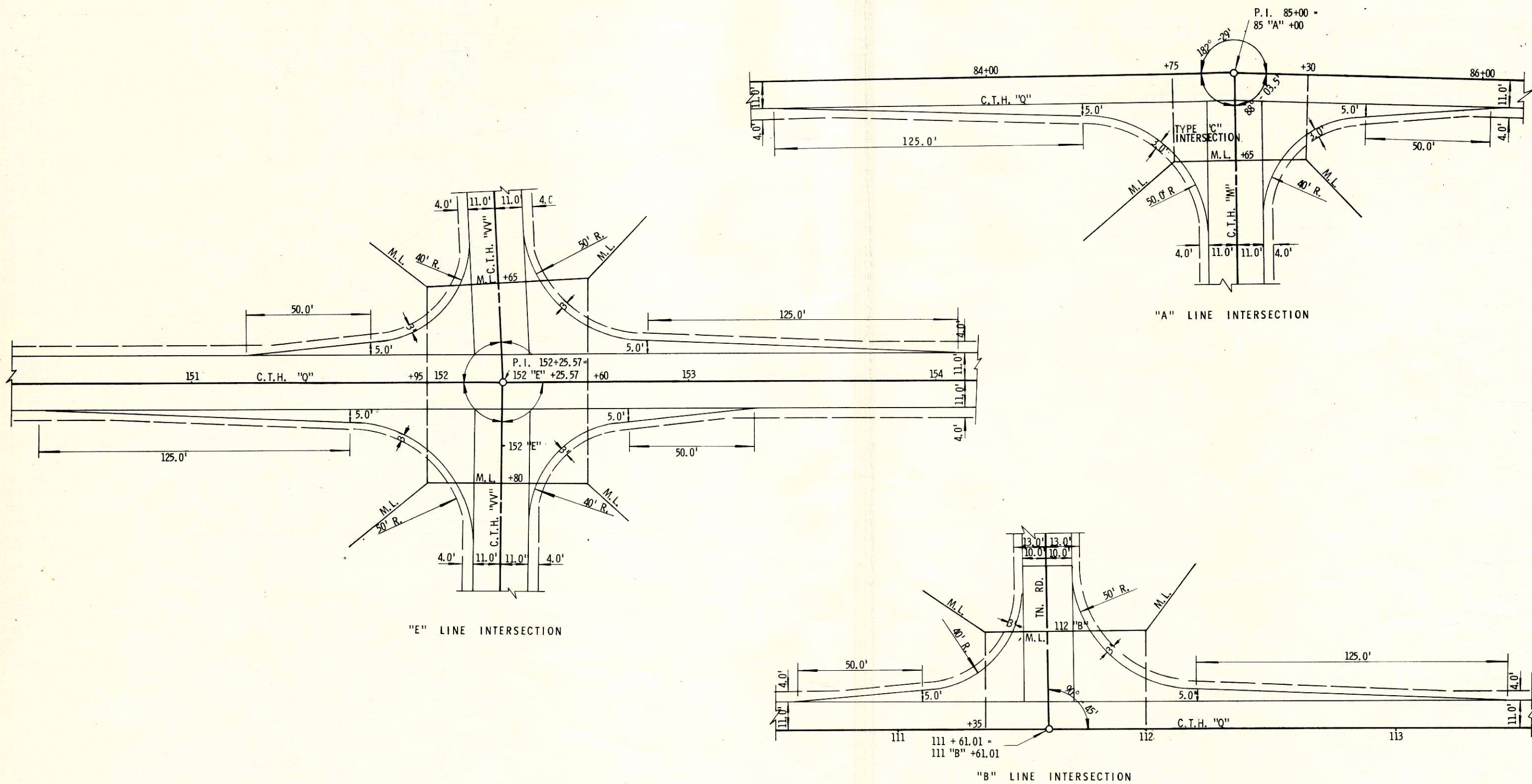
PIPE DISCHARGE FLUME FOR 24 INCH DIAMETER PIPE
 STA. 143 + 70



SEC. B-B

PROJECT I.D.	7324-1-70	SHEET NUMBER	2.1	TOTAL SHEETS	35
FEDERAL PROJECT DESIGNATION	S1459(3)				
SLOPE PAVING CONCRETE FLUME					

PROJECT I.D.	S1459 (3)	SHEET NUMBER	2.2	TOTAL SHEETS	35
FEDERAL-PROJECT DESIGNATION	7324-1-70	INTERSECTION MATCHLINE LAYOUT			



CONTRACT NO. 1 - 7324-1-70
GRADING, BASE COURSE,
SURFACING & STRUCTURE
C - 32 - 30

— EDITION OF 1969, SUBMITTED FOR

7324 - 1 - 70

35

S 1459(3)

[illegible]

DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

GRAVEL AGGREGATE BASE COURSE

Sta. - Sta.	Location	C.Y.	Remarks
80+00 - 83+13	C/L	355	"A" Line
83+13 - 86+03	C/L	409	"B" Line
86+03 - 110+60	C/L	2789	"C" Line
110+60 - 113+45	C/L	400	"E" Line
113+45 - 123+24	C/L	1111	"E" Line
123+24 - 126+09	C/L	400	
126+09 - 150+40	C/L	2760	
150+40 - 154+12	C/L	582	
154+12 - 154+50	C/L	43	
80+00 - 84+34	C/L	493	
112+26 - 114+00	C/L	198	
122+50 - 124+44	C/L	220	
149+75 - 151+60	C/L	210	
152+92 - 154+00	C/L	123	
P.E.'s		125	
Shoulders	Shoulders	302	
Undistributed		502	

GRANULAR SUBBASE

Sta. - Sta.	Location	C.Y.	Remarks
80+00 - 83+13	C/L	374	
83+13 - 86+03	C/L	346	
86+03 - 110+60	C/L	2936	
110+60 - 113+45	C/L	340	
113+45 - 123+26	C/L	1172	
123+26 - 126+10	C/L	339	
126+10 - 150+40	C/L	2903	
150+40 - 154+09	C/L	441	
154+09 - 154+50	C/L	49	
80+00 - 84+34	C/L	518	"A" Line
149+75 - 151+60	C/L	221	"E" Line
152+84 - 154+00	C/L	139	"E" Line
85+00	Intersection	96	"A" Line
152+25.57		96	"A" Line
152+25.57		96	"E" Line
Undistributed		174	

CLEARING & GRUBBING

Sta. - Sta.	Location	Clearing	Grubbing
81 - 85	Lt.	4	4
109 - 111	Lt.	2	2
133 - 144	Rt.	11	11
145 - 147	Lt.	2	2

CROSS DRAINS

Station	Location	Class	In. Dia.	Length	Type	Anrion Endwalls	Skew
91+58	C/L	III	36	58'	C.P.	2	15° L.H.F.
139+80	C/L	III	36	50'	C.P.	2	15° R.H.F.
143+70	C/L	III	24	104'	C.P.	1	
152+60	C/L	III	24	64'	C.P.	2	

MINOR SIDE ROAD & PRIVATE ENTRANCE PIPE

Station	Location	Class	In. Dia.	Length	Type	Anrion Endwalls
82+42	Lt.	III	18	28'	C.P.	2
88+85	Rt.	III	18	28'	C.P.	2
99+45	Rt.	III	18	28'	C.P.	2
115+58	Rt.	III	18	28'	C.P.	2
117+57	Lt.	III	18	28'	C.P.	2
124"C"+31	C/L	III	24	40'	C.P.	2
136+00	Rt.	III	24	28'	C.P.	2
138+00	Lt.	III	24	28'	C.P.	2
146+85	Rt.	III	18	28'	C.P.	2
150"E"+90		III	18	28'	C.P.	2

STEEL PLATE BEAM GUARD, CLASS "A"

Sta. - Sta.	Location	Length in Ft.	Anchors
140+30 - 142+47	Rt.	217	2
142+03 - 143+70	Lt.	167	2

BITUMINOUS CONC. PAV'T.

Sta. - Sta.	Ton	Prime Coat Gal.	Bit. Mat'l. Surface Cse. Ton
80+00-154+50	2113	4552	127
80"A"+00-84"A"+33	123	264	8
150"E"+43-151"E"+59	33	71	2
152"E"+89-154"E"+00	31	68	2
Intersections			
"A" Line	38	83	2
"B" Line	37	80	2
"E" Line (Lt.)	38	83	2
"E" Line (Rt.)	38	81	2
Undistributed 57	124	268	8

7324 - 1 - 70

PROJECT	SHEET NO.	TOTAL SHEETS
S 1459(3)	3A	35

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS	S 1459(3)	4	35

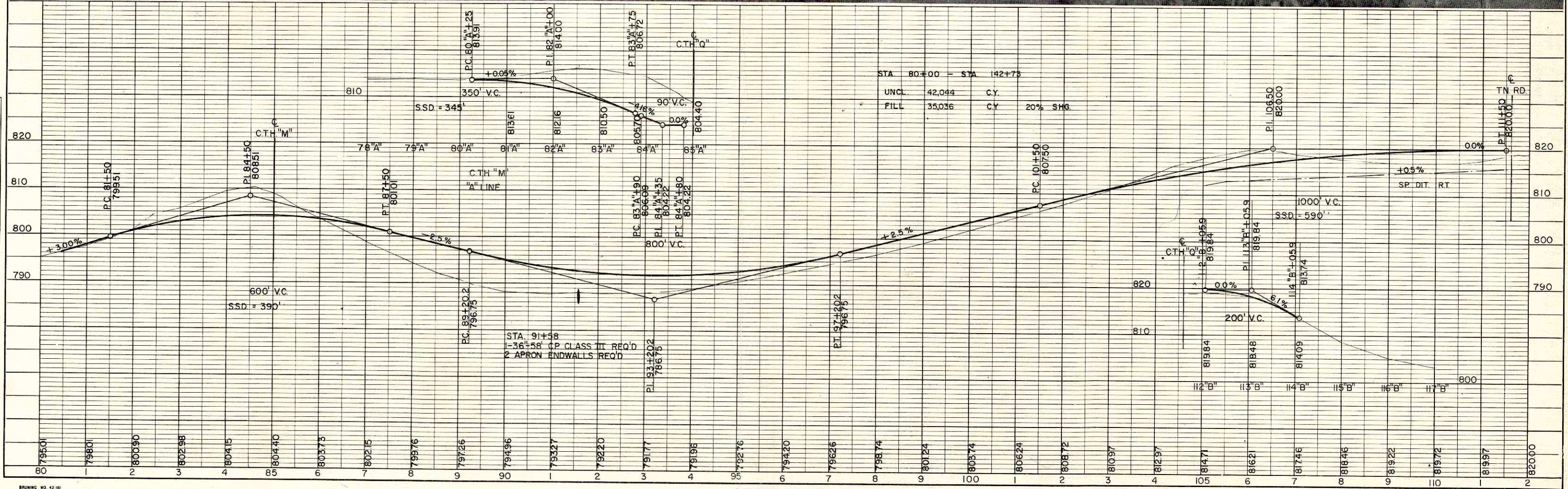
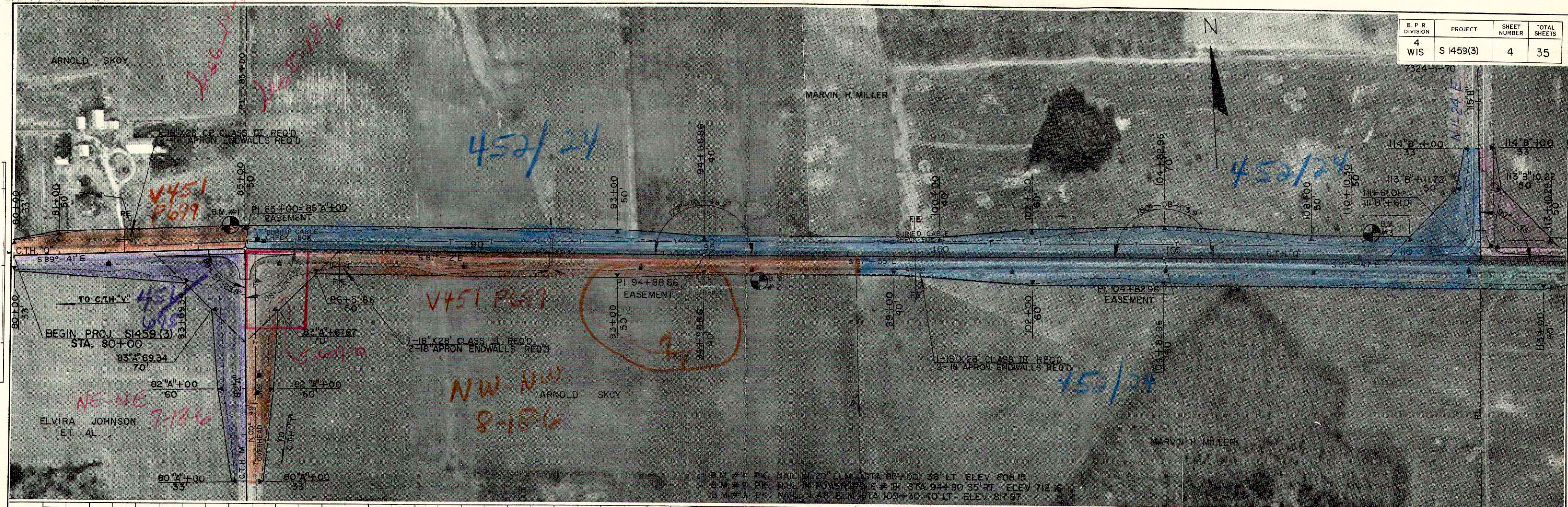


PLATE 1 - PLAN - PROFILE O. P. R. E.
MADE AND PRINTED IN U.S.A.

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS	S1459(3)	5	35

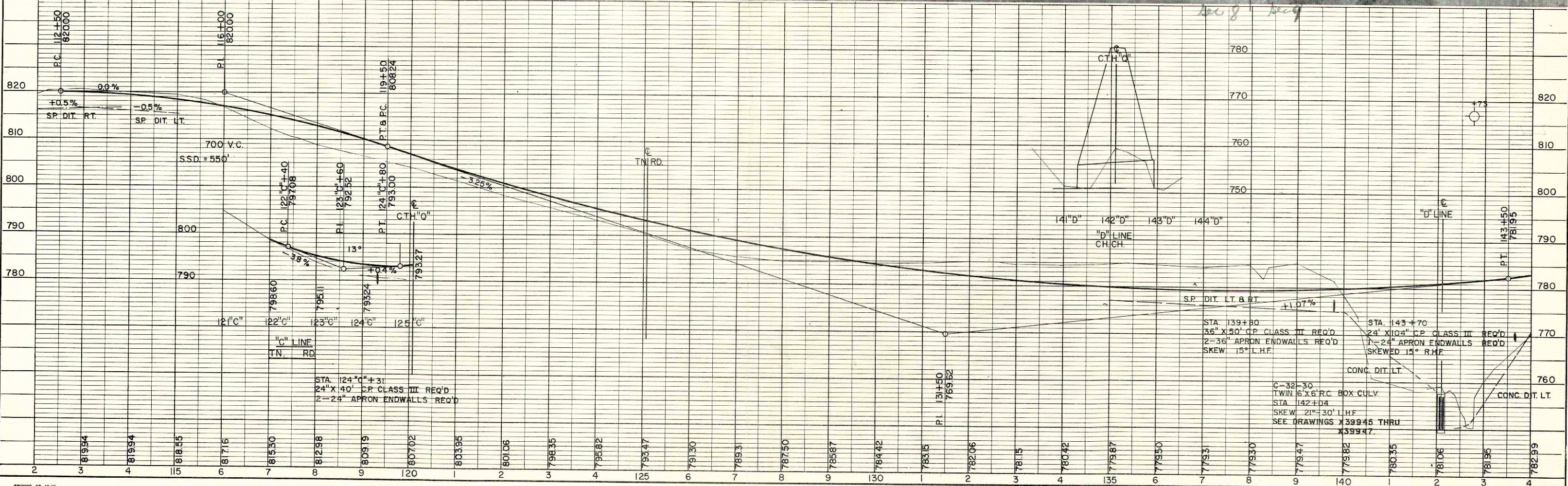
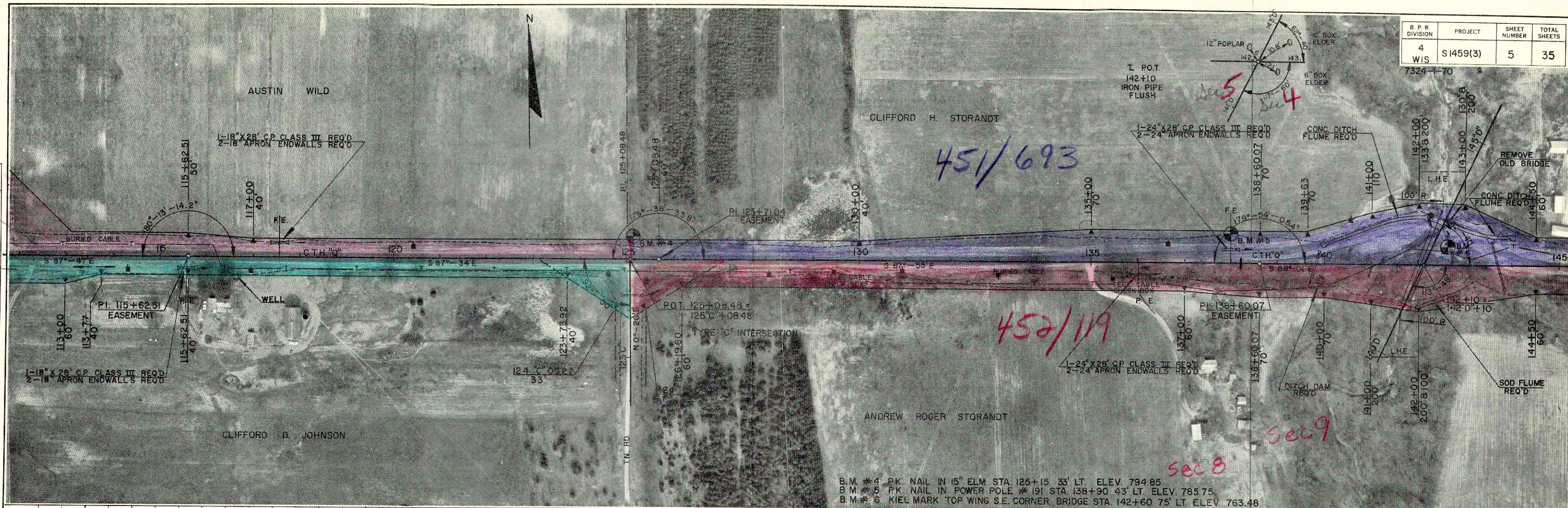


PLATE 1-PLAN-PROFILE S.P.R.R.E.
MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

B. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS	S 1459(3)	6	35

7324-1-70 3

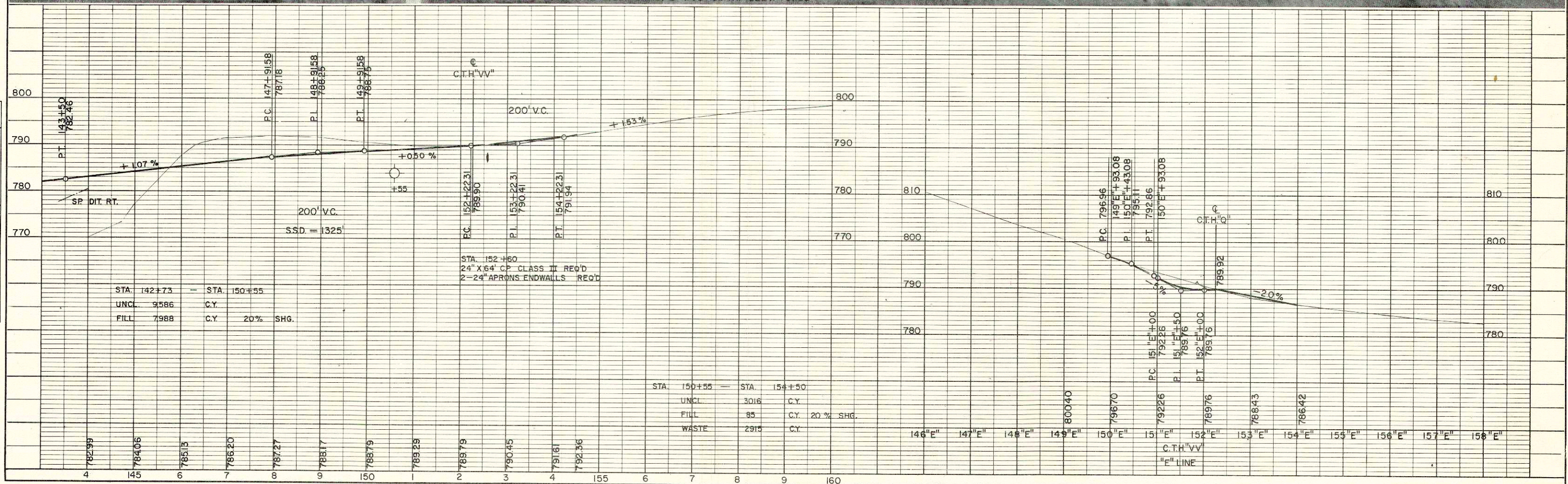
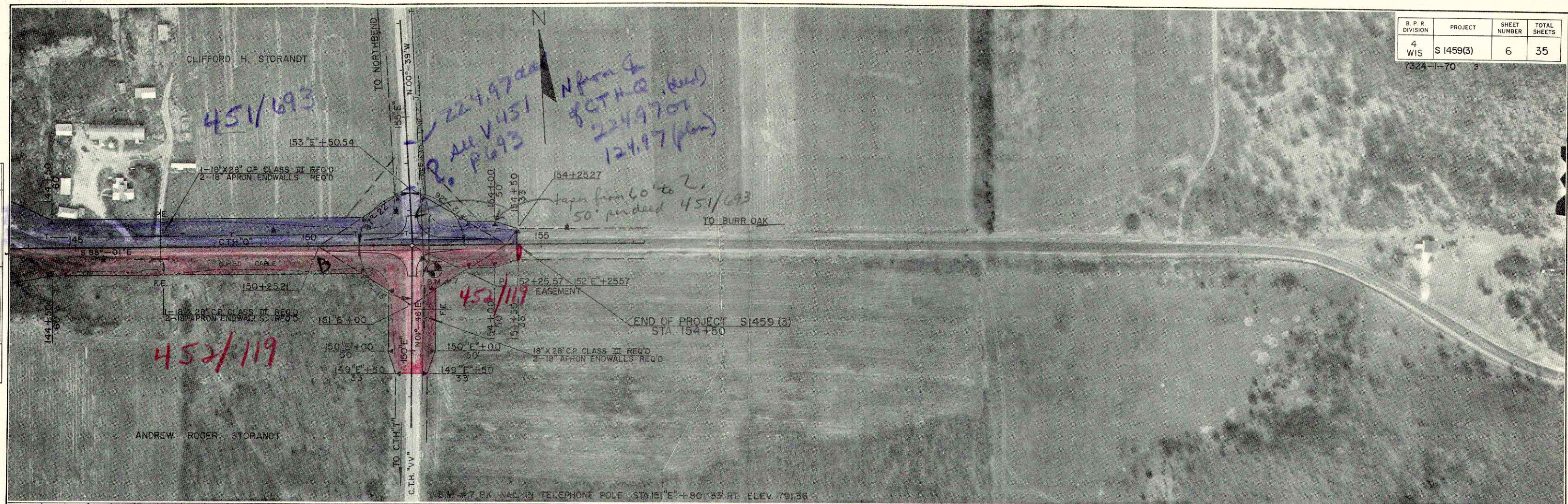
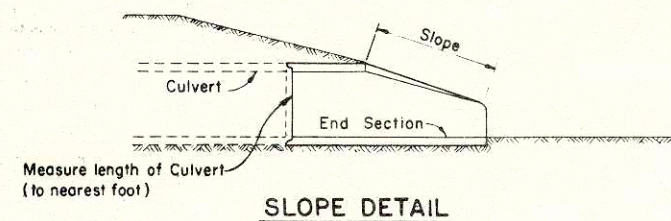
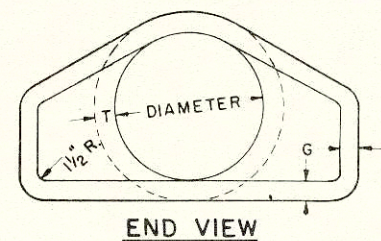
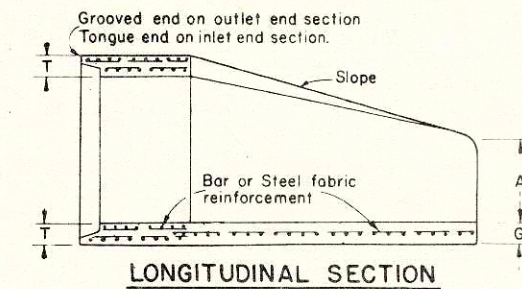
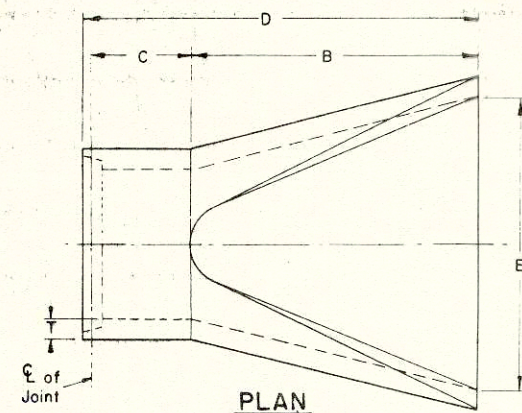
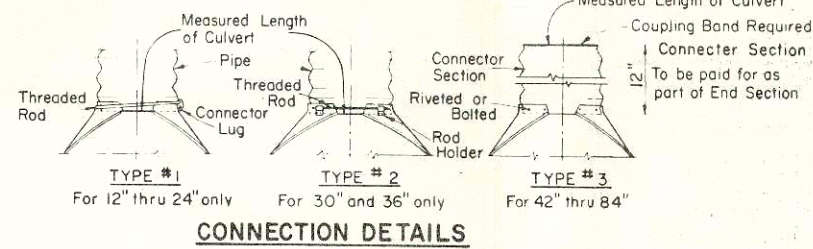
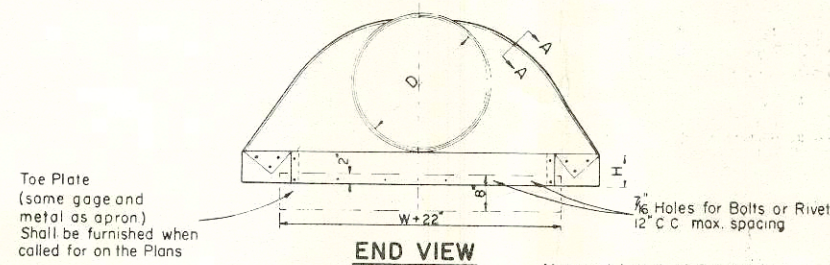
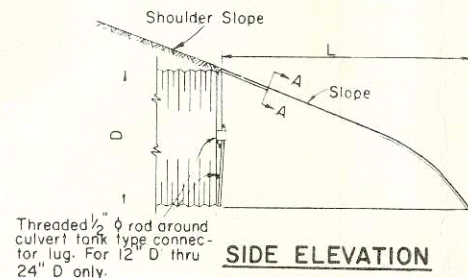
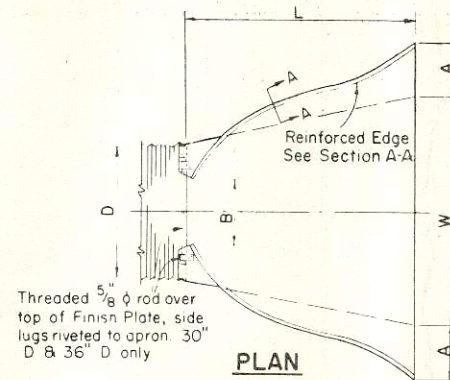


PLATE 1-PLAN-PROFILE O. P. R. & R. E.
MADE AND PRINTED IN U.S.A.



DIA	APPROX WEIGHT/SECTION	APPROX SLOPE	T	A	B	C	D	E	G
12"	530	3 to 1	2"	4"	24"	48 7/8"	72 7/8"	24"	2"
15"	740	3 to 1	2 1/4"	6"	27"	46"	73"	30"	2 1/4"
18"	990	3 to 1	2 1/2"	9"	27"	46"	73"	36"	2 1/2"
21"	1280	3 to 1	2 3/4"	9"	36"	37 1/2"	73 1/2"	42"	2 3/4"
24"	1520	3 to 1	3"	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"
27"	1930	3 to 1	3 1/4"	10 1/2"	49 1/2"	24"	73 1/2"	54"	3 1/4"
30"	2190	3 to 1	3 1/2"	12"	54"	19 3/4"	73 3/4"	60"	3 1/2"
36"	4100	3 to 1	4"	15"	63"	34 3/4"	97 3/4"	72"	4"
42"	5380	3 to 1	4 1/2"	21"	63"	35"	98"	78"	4 1/2"
48"	6550	3 to 1	5"	24"	72"	26"	98"	84"	5"
54"	8040	2 1/2 to 1	5 1/2"	27"	65"	33 1/4 min 35 max	98 1/4 min 100 max	90"	5"
60"	8730	2 to 1	6"	30"	60"	39"	99"	96"	5"
66"	10,630	2 to 1	6 1/2"	34"	60"	39"	99"	102"	5 1/2"
72"	12,520	2 to 1	7"	36"	78"	21"	99"	108"	6"
78"	14,430	2 to 1	7 1/2"	36"	78"	21"	99"	114"	6 1/2"
84"	18,160	1 1/2 to 1	8"	36"	90 1/2"	21"	111 1/2"	120"	6 1/2"

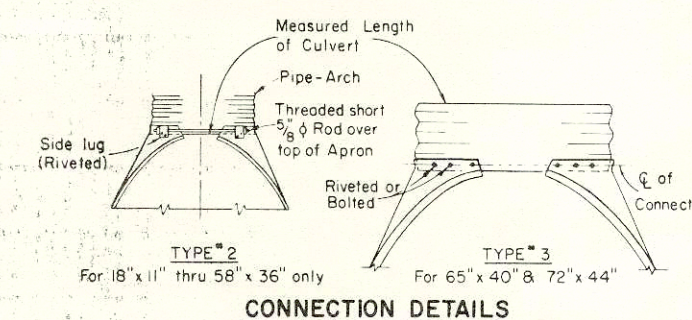
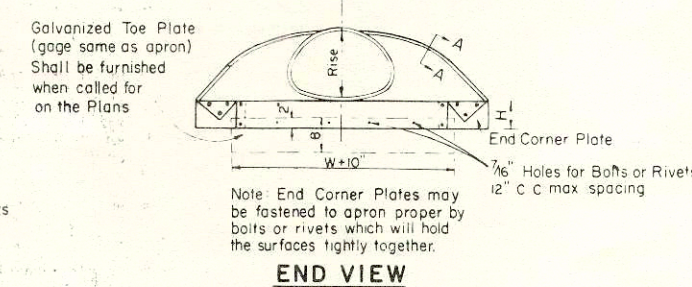
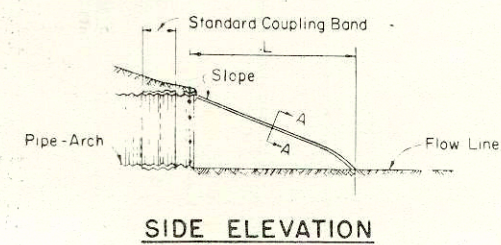
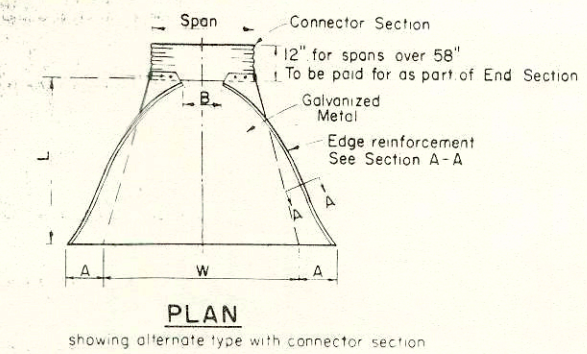
REINFORCED CONCRETE APRON ENDWALLS



D Pipe Diam	Gage Min.	Dimensions	Approx. Slope
		A ± 1" B Max ± 1" H ± 1" L ± 1 1/2" W ± 2"	
12"	16	6" 6" 6" 21" 24"	2 1/2 to 1
15"	16	7" 8" 6" 26" 30"	"
18"	16	8" 10" 6" 31" 36"	"
21"	16	9" 12" 6" 36" 42"	"
24"	16	10" 13" 6" 41" 48"	"
30"	14	12" 16" 8" 51" 60"	"
36"	14	14" 19" 9" 60" 72"	"
42"	12	16" 22" 11" 69" 84"	"
48"	12	18" 27" 12" 78" 90"	2 1/4 to 1
54"	12	18" 30" 12" 84" 102"	2 to 1
60"	12	18" 33" 12" 87" 114"	1 3/4 to 1
66"	12	18" 36" 12" 87" 120"	1 1/2 to 1
72"	12	18" 39" 12" 87" 126"	1 1/3 to 1
78"	12	18" 42" 12" 87" 132"	1 1/4 to 1
84"	12	18" 45" 12" 87" 138"	1 1/6 to 1

Note: All splices to be lap riveted or bolted.

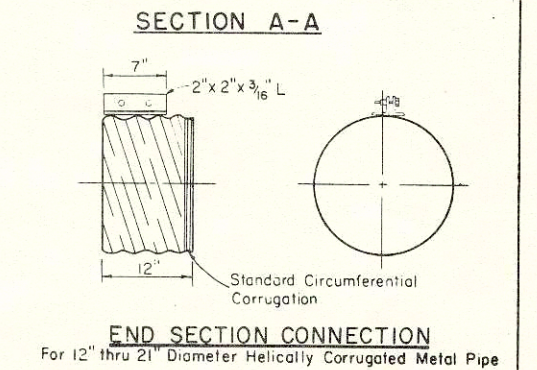
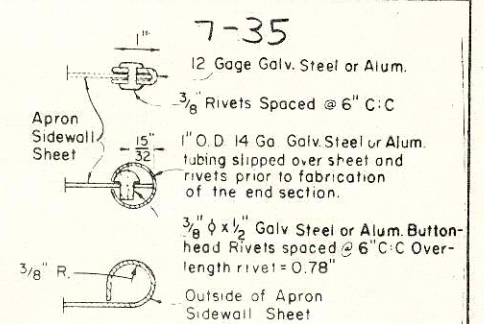
METAL APRON ENDWALLS



Pipe - Arch Dimensions	Gage Min.	Dimensions	Approx. Slope
Span Rise		A ± 1" B Max ± 1" H ± 1" L ± 1 1/2" W ± 2"	
18" 11"	16	7" 9" 6" 19" 30"	2 1/2 to 1
22" 13"	16	7" 10" 6" 23" 36"	"
25" 16"	16	8" 12" 6" 28" 42"	"
29" 18"	16	9" 14" 6" 32" 48"	"
36" 22"	14	10" 16" 6" 39" 60"	"
43" 27"	14	12" 18" 8" 46" 75"	"
50" 31"	12	13" 21" 9" 53" 85"	"
58" 36"	12	18" 26" 12" 63" 90"	"
65" 40"	12	18" 30" 12" 70" 102"	2 1/4 to 1
72" 44"	12	18" 33" 12" 77" 114"	"

Note: All splices to be lap riveted or bolted.

APRON ENDWALLS FOR PIPE ARCH



GENERAL NOTES

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

NOTE

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.

Reinforced concrete apron endwalls shall be used with concrete pipe culvert installations, steel apron endwalls shall be used with corrugated steel pipe culvert installations, and aluminum apron endwalls shall be used with corrugated aluminum pipe culvert installations, except that steel apron endwalls may be used on corrugated aluminum pipe culverts when a non-metallic insulation material is placed between the steel and aluminum. The non-metallic insulation material shall be so placed between the two metals so as to prohibit galvanic action from occurring.

When two or more pipes or 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.

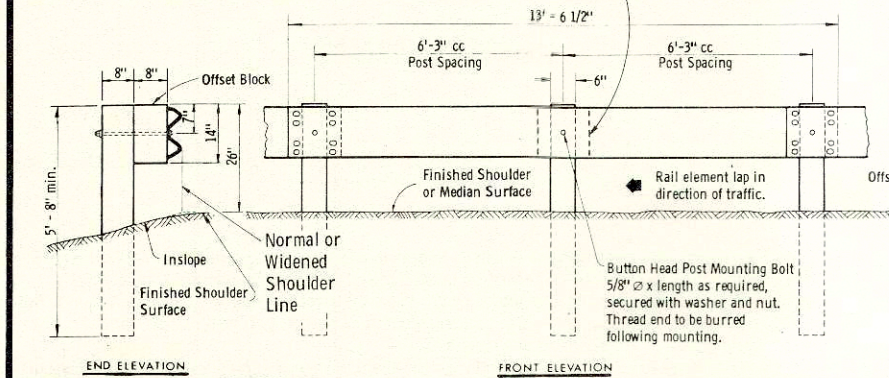
Pipe Arches: Total width of apron endwall less the span dimension of the pipe arch plus 6 inches.

APRON ENDWALLS FOR CULVERT PIPE & PIPE ARCH

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
12/19/68
DATE
APPROVED:
3/24/68
DATE
E. J. Rydzek
CHIEF DESIGN ENGINEER
M. J. Bernicki
STATE HIGHWAY ENGINEER

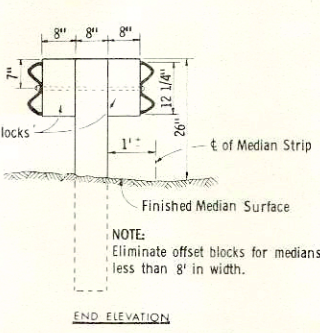
One foot long section of rail element, with a 3/4" slotted hole for mounting, shall be placed behind the continuous rail element at the intermediate posts.



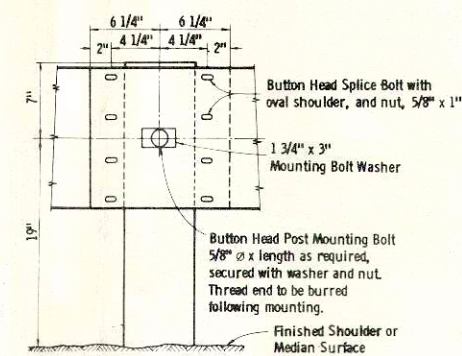
STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD

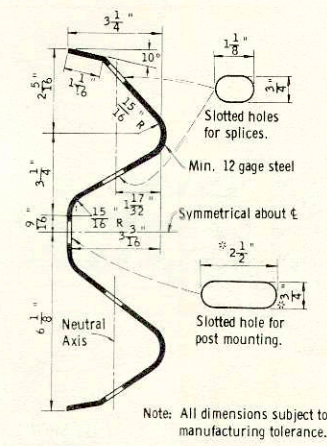
Sawed treated timber posts 6" x 8" x 6'-0" and sawed treated timber offset blocks 6" x 8" x 14" shall be furnished and placed in accordance with Standard Specifications.



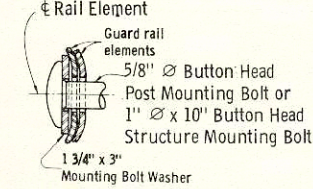
STEEL PLATE BEAM MEDIAN GUARD



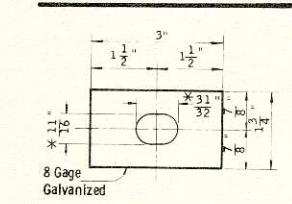
RAIL ELEMENT SPLICING AND POST MOUNTING DETAILS



SECTION THRU RAIL ELEMENT



MOUNTING BOLT WASHER



MOUNTING BOLT WASHER

* Hole in Structure Mounting Bolt Washer to be 1 1/16" dia.

7.2-35 GENERAL NOTES

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

The exact location of the beginning and end of each Guardrail installation shall be as shown on the plans or as directed by the engineer.

TERMINATION AT STRUCTURES NOT PROVIDED WITH A NOTCH

For those structures where a notch is not provided, the Guardrail will be terminated as directed by the engineer.

POST FOOTING DETAIL AT PIERS

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

STEEL PLATE BEAM MEDIAN GUARD

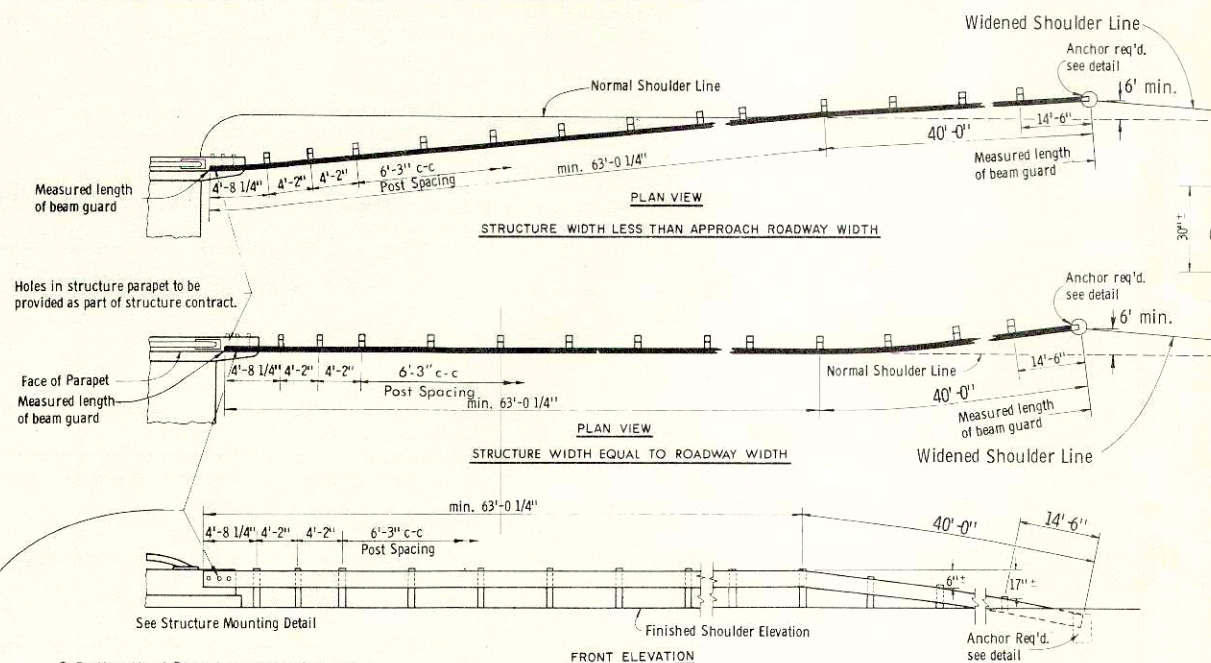
Eliminate offset blocks for medians less than 8 foot in width.

ALTERNATE ANCHORS

Square anchors will be permitted. Square anchors shall be a minimum of 24 inches x 24 inches.

SHOULDER WIDENING

The shoulder widening to accommodate the anchored end of the Guardrail shall be accomplished at a rate of widening not to exceed 50 to 1.



TYPICAL INSTALLATION AT STRUCTURES

3-Button Head Structure Mounting Bolts 1" x 10" secured with washer and nut. Thread end to be burred following mounting.

Holes in structure parapet to be provided as part of structure contract.

Face of Parapet

Measured length of beam guard

PLAN VIEW

3-Button Head Structure Mounting Bolts 1" x 10" secured with washer and nut. Thread end to be burred following mounting.

Holes in structure parapet to be provided as part of structure contract.

Face of Parapet

Measured length of beam guard

PLAN VIEW

2 1/2" 7" 7" 7"

Measured length of beam guard

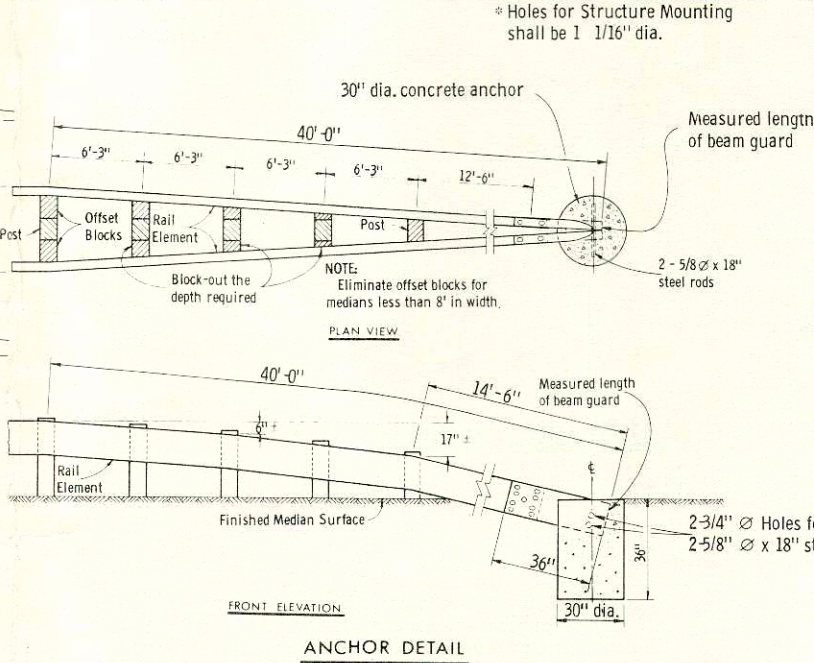
Top of Curb

Shoulder

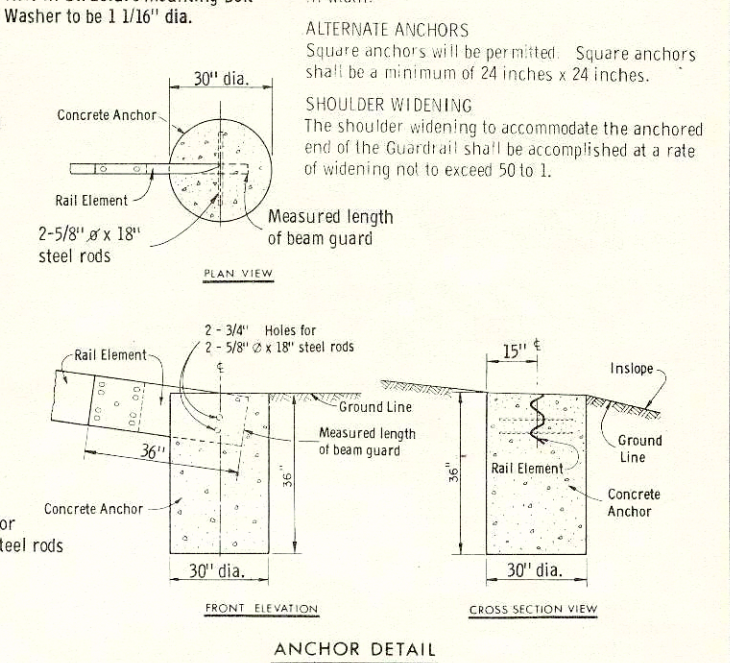
FRONT ELEVATION

END ELEVATION

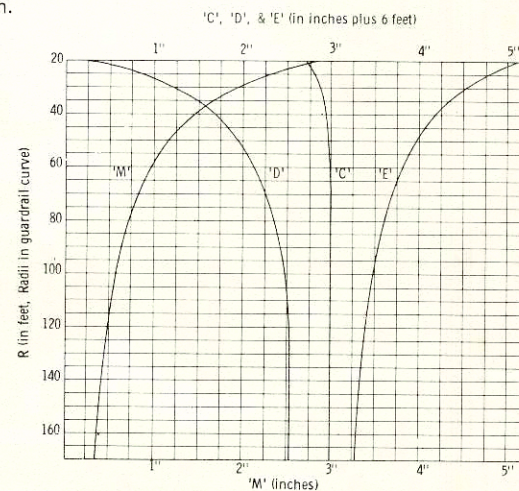
STRUCTURE MOUNTING DETAIL



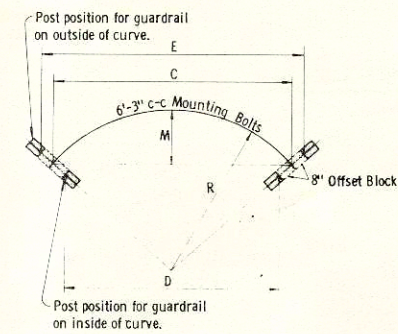
ANCHOR DETAIL FOR DOUBLE RAIL ELEMENT INSTALLATION



ANCHOR DETAIL FOR SINGLE RAIL ELEMENT INSTALLATION



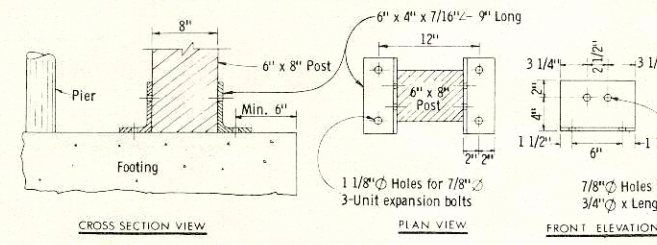
CURVE DATA FOR POST SPACING AND BEAM CURVING



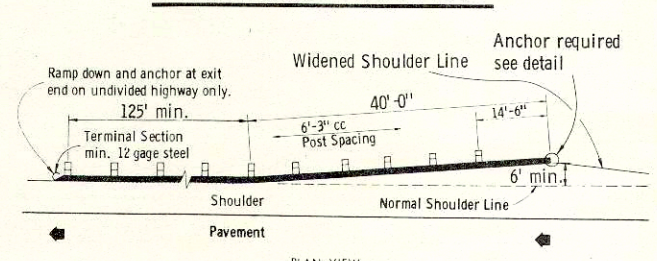
Post position for guardrail on outside of curve.

Post position for guardrail on inside of curve.

Chord lengths for post spacing and middle ordinates for beam curving



POST-FOOTING DETAIL AT PIERS



TYPICAL INSTALLATION AT LOCATIONS OTHER THAN STRUCTURES

STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
1/25/68
DATE
E. J. Byrd
CHIEF DESIGN ENGINEER
APPROVED
7/8/68
DATE
L. J. Lammert
STATE HIGHWAY ENGINEER

GENERAL NOTES

The contractor shall construct, place and maintain barricades as shown on the drawing and as required by the Standard Specifications or applicable Special Provisions.

CLASS 1 BARRICADE:

Class 1 Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class 1 Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class 1 Barricades shall be used at points where the road is closed to traffic. Gates or movable sections of a barricade shall be provided when necessary, for access of equipment or other authorized vehicles. Wing Barricades are Class 1 Barricades erected on the shoulder on one or both sides of the pavement to give Traffic the perceptive effect of a narrowing or restricted roadway. The ends closest to traffic of all three members of a wing barricade shall be in a vertical line. If used in a series, they should start at the outer edge of the shoulder and be brought progressively closer to the pavement. Wing Barricades may be used as a mounting for the advance warning or guide signs or for flashers. When used on two-way roadways, the back of the wing barricade shall be painted reflectorized white.

CLASS 11 BARRICADE:

Class 11 Barricades may be used only where the hazard to traffic is relatively small, and for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

MATERIAL & FABRICATION:

Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. Metal shall be sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. The fabrication of the barricade shall be in accord with good pertinent woodworking and metalworking practices. All lumber or timber dimensions stated are nominal.

PAINTING:

All barricades shall be painted in alternate 4" or 6" black and white stripes at a 45° angle. The width of stripe shall be consistent for each complete barricade installation. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by two coats of white reflectorized paint or reflective wide angle sheeting.

DIRECTION OF DIAGONAL STRIPES:

Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center. The stripes on wing barricades shall point downward toward the roadway.

LIGHTING:

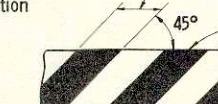
Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

MEASUREMENT & PAYMENT:

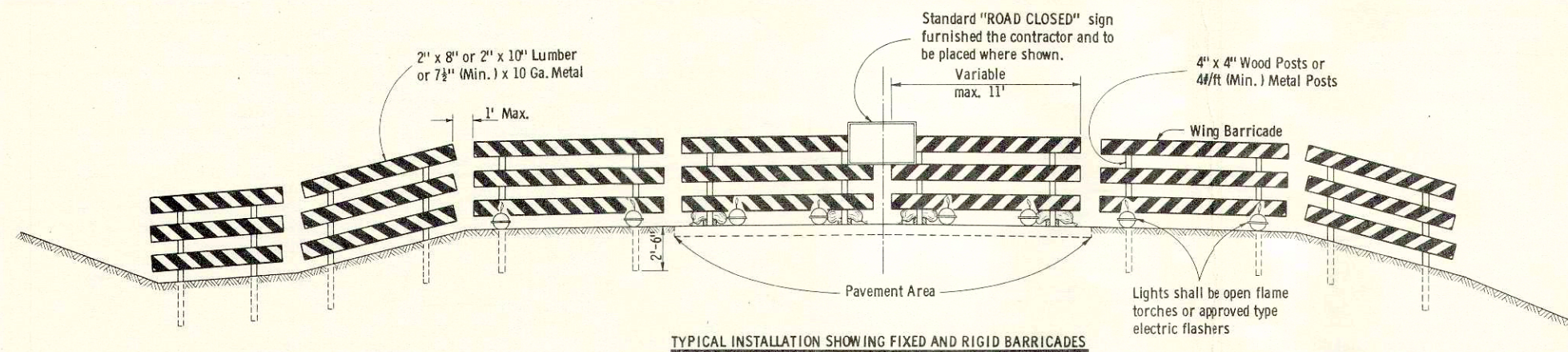
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

Alternate black & white stripes. See General Notes for direction of stripes

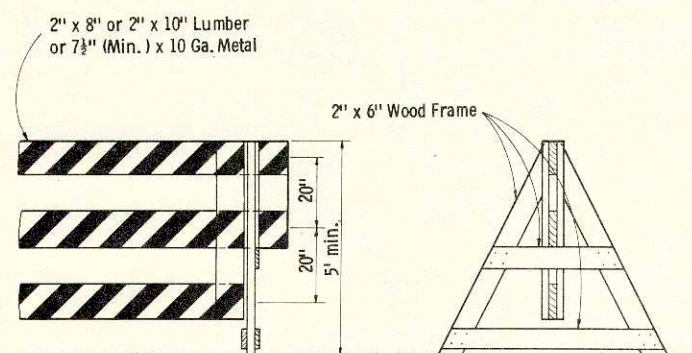
4" or 6" but consistent for each barricade installation



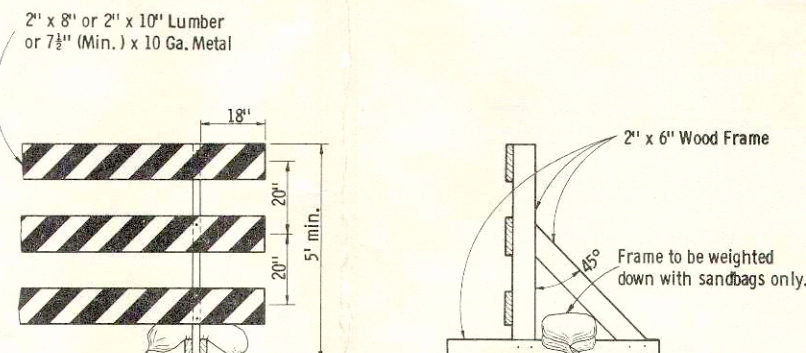
TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types of Barricades



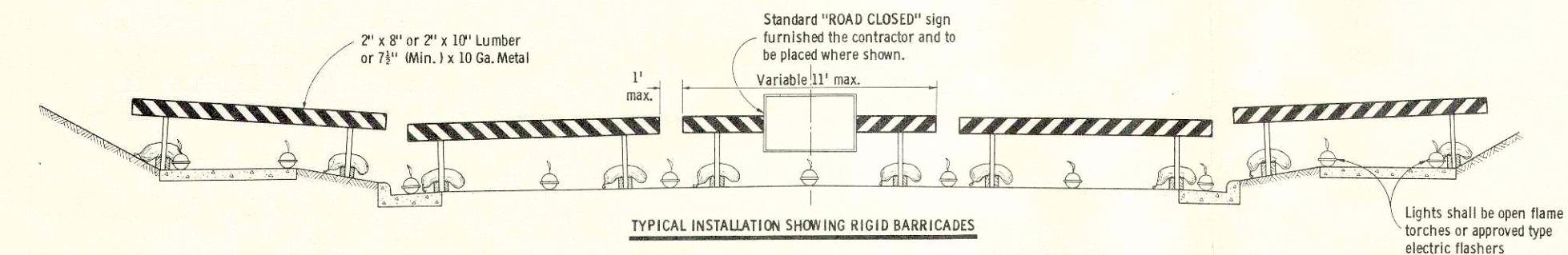
TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES



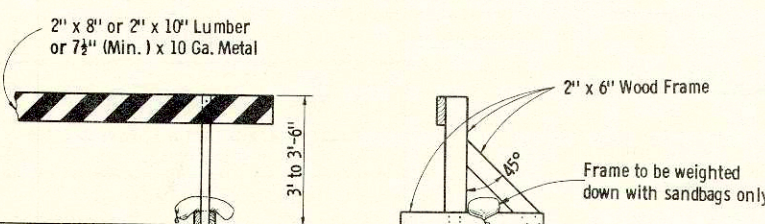
ALTERNATE TYPE INSTALLATION (DISMOUNTABLE)

CLASS I BARRICADES

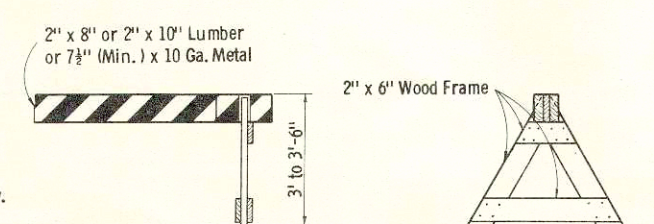
ALTERNATE TYPE INSTALLATION (RIGID)



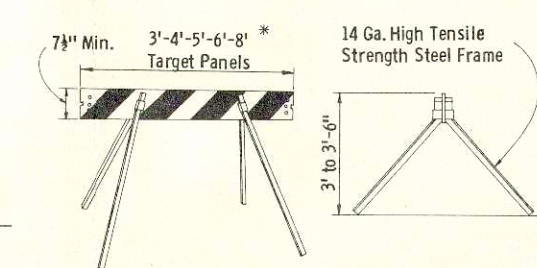
TYPICAL INSTALLATION SHOWING RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DISMOUNTABLE)

CLASS II BARRICADES

* Maximum length of combination panels 16'
ALTERNATE TYPE INSTALLATION (DISMOUNTABLE)

CONSTRUCTION BARRICADE

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:

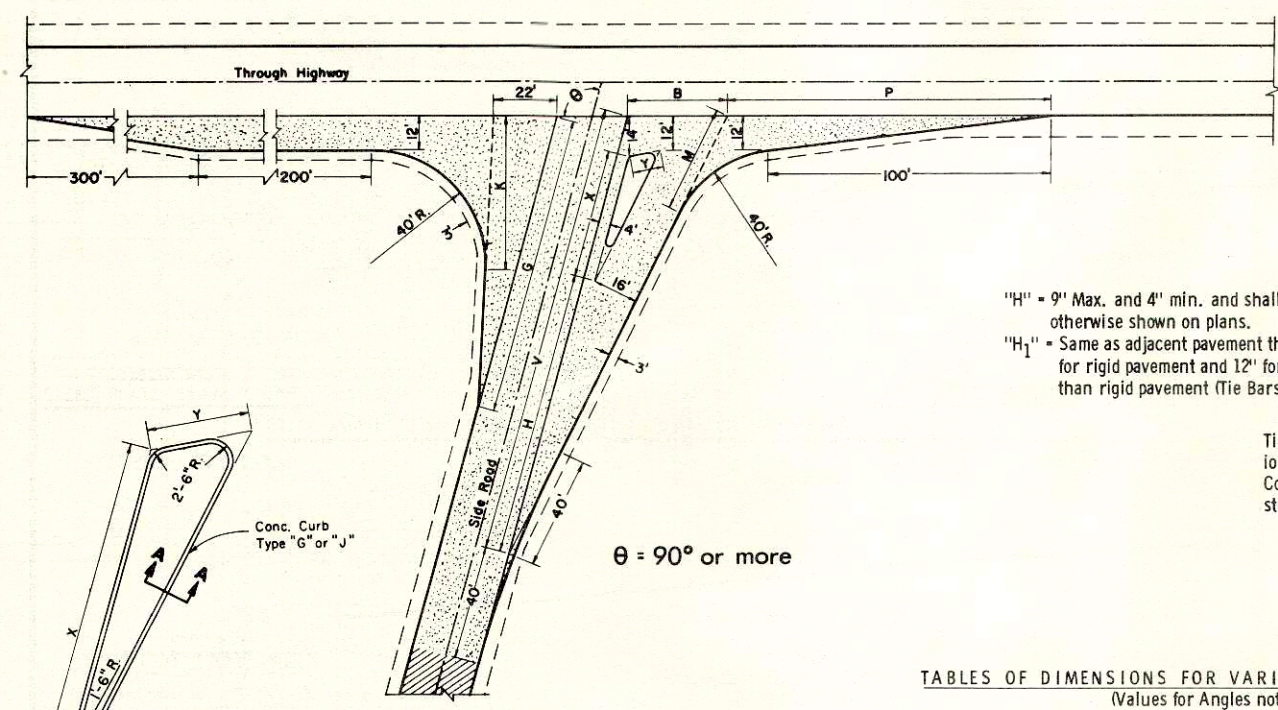
DATE 1/11/67

APPROVED: 1/13/67

DATE

E. J. B. DESIGN ENGINEER

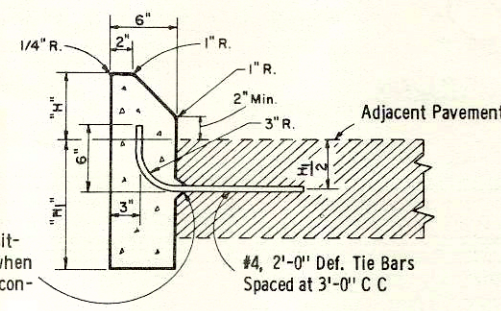
H. J. D. STATE HIGHWAY ENGINEER



$\theta = 90^\circ$ or more

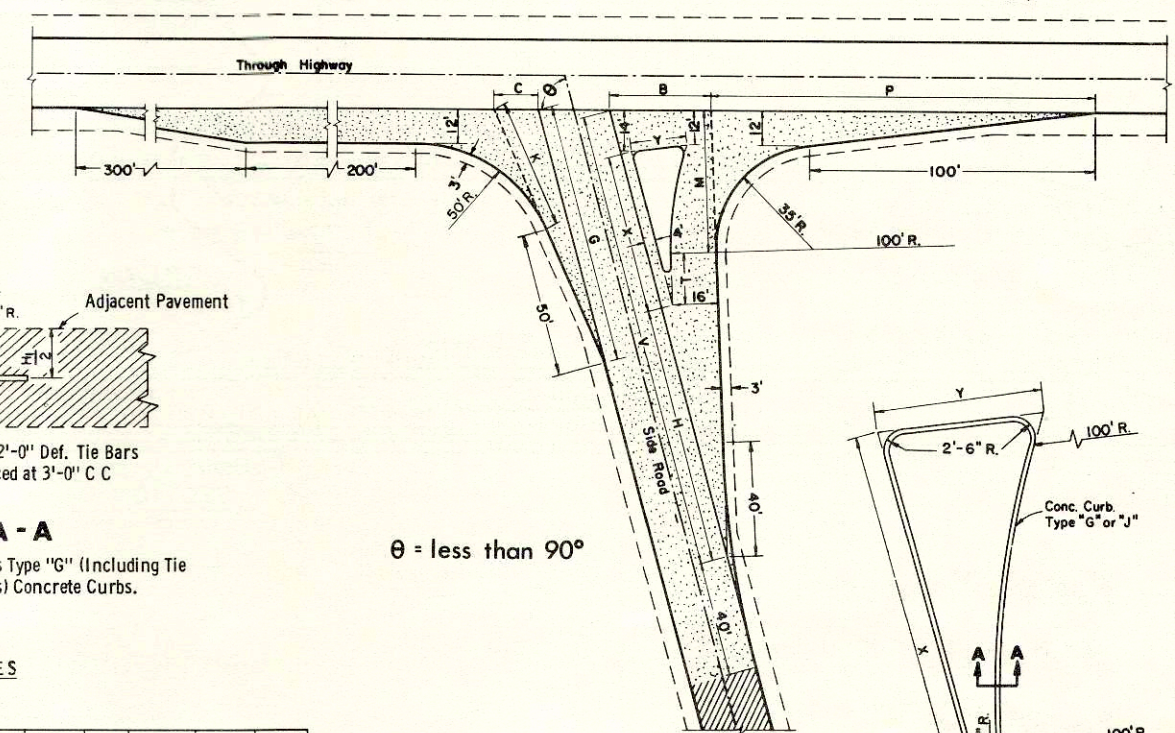
"H" = 9" Max. and 4" min. and shall be 6" unless otherwise shown on plans.
"H₁" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

Tie Bar recess positioned in reverse when Concrete Curb is constructed first



SECTION A-A

Note: To be measured and paid for as Type "G" (Including Tie Bars) or Type "J" (Excluding Tie Bars) Concrete Curbs.



$\theta = \text{less than } 90^\circ$

TABLES OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES
(Values for Angles not shown shall be interpolated)

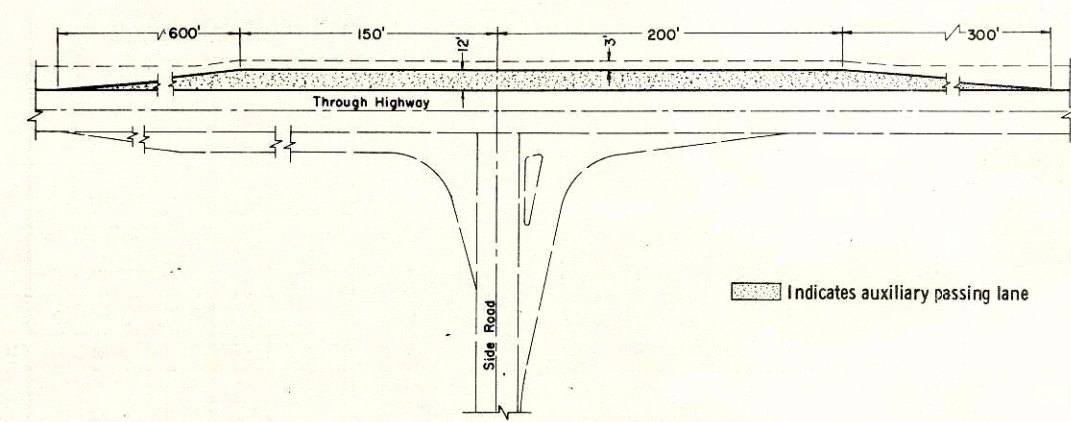
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1	34.8
*120	114	69.4	40.1	161.2	106	41.4	12.2	103.4	33.7

*Maximum angle of intersection

θ	C	G	K	B	V	X	Y	H	P	M	T
*60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144.5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141.2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136.8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132.7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128.8	45.3	14.9
85	16.2	99.3	51.4	33.4	156.4	48.0	15.0	94	125.2	42.7	10.4

*Desirable Minimum angle of intersection

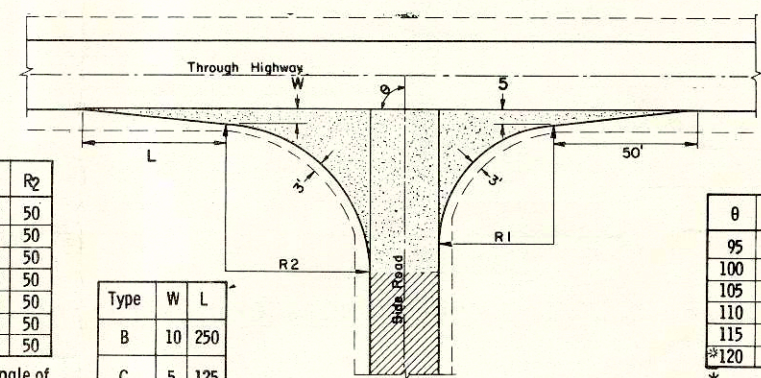
TYPE "A" SIDE ROAD INTERSECTION DETAILS



PASSING LANE DETAIL

θ	R ₁	R ₂
*60	40	50
65	40	50
70	40	50
75	40	50
80	40	50
85	40	50
90	40	50

*Min. Angle of Intersection



TYPE "B" & "C" SIDE ROAD INTERSECTION DETAILS

Type	W	L
B	10	250
C	5	125

θ	R ₁	R ₂
95	45	49
100	50	48
105	55	47
110	60	46
115	65	45
*120	70	44

*Max. Angle of Intersection

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.

Details on this drawing are for minimum design only, and not applicable to special conditions, as shown elsewhere on the plans.

SIDE ROAD SURFACING NOTE

If the side road is not presently paved, pavement shall be placed to the limits shown. In the case where the construction limits are beyond the paving limits, gravel or crushed stone surfacing shall be placed between the paving limits and construction limits.

If 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.

If side road is the construction project, the intersection surfacing shall be the same as for the project.

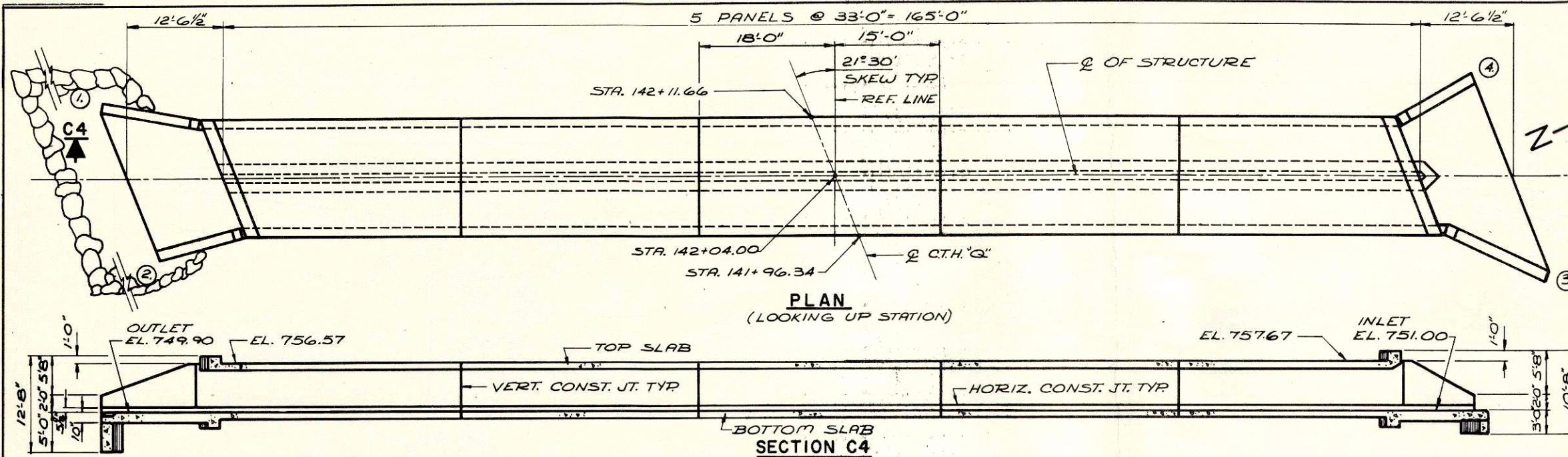
■ New Pavement
▨ Existing Surface

LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL: *E.J. B...* DATE: 8/9/67
APPROVED: *A. J...* DATE: 8/9/67

DESIGN ENGINEER
STATE HIGHWAY ENGINEER



County & Highway	Route & Section	Class & Agreement	State	Federal	S. P. R. Division	Project	Sheet No.	Total Sheets
32.6	1459.0		11.3	4		SI459(3)	8	35

7324-1-70

LIST OF DRAWINGS

1. DETAILS	X39945
2. DETAILS	X39946
3. DETAILS	X39947

TOTAL ESTIMATED QUANTITIES

BID ITEMS	1 L.S.
REMOVING OLD BRIDGE	825 CY.
EXCAVATION FOR STRUCTURE	239.0 CY.
CONCRETE MASONRY	33,670 LBS.
BAR STEEL REINFORCEMENT	80 CY.
HEAVY RIPRAP	

NON-BID ITEMS	3/4" SIZE
FILLER	27 LF.
POLYVINYL CHLORIDE WATERSTOP	

DESIGN DATA

LIVELOAD: H-20
 EARTHLOAD: DESIGNED FOR 24'-0" OF FILL.
 ALLOWABLE DESIGN STRESSES:
 CONCRETE MASONRY, GRADE "AA" — f_c 1,400 PSI.
 BAR STEEL REINFORCEMENT — f_s 20,000 PSI.

GENERAL NOTES

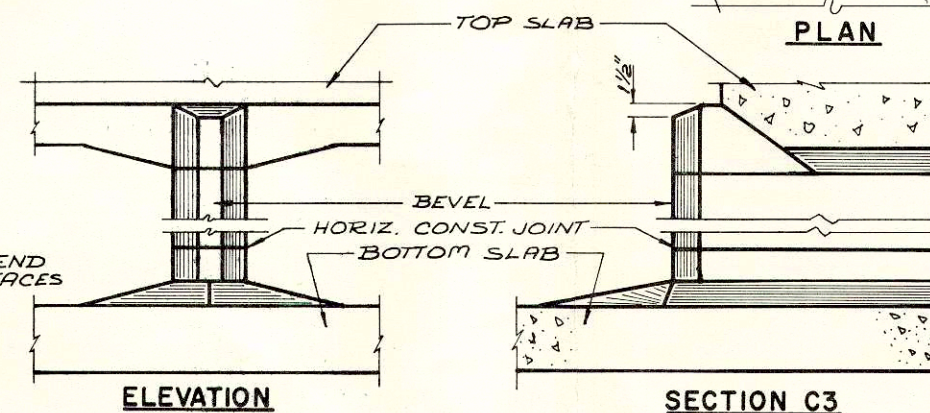
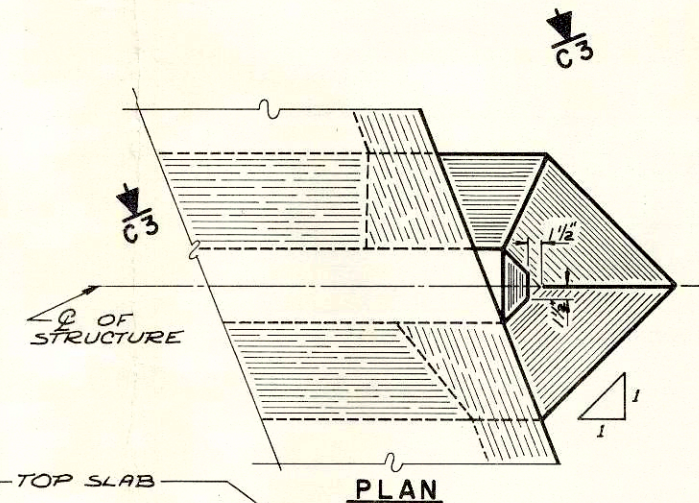
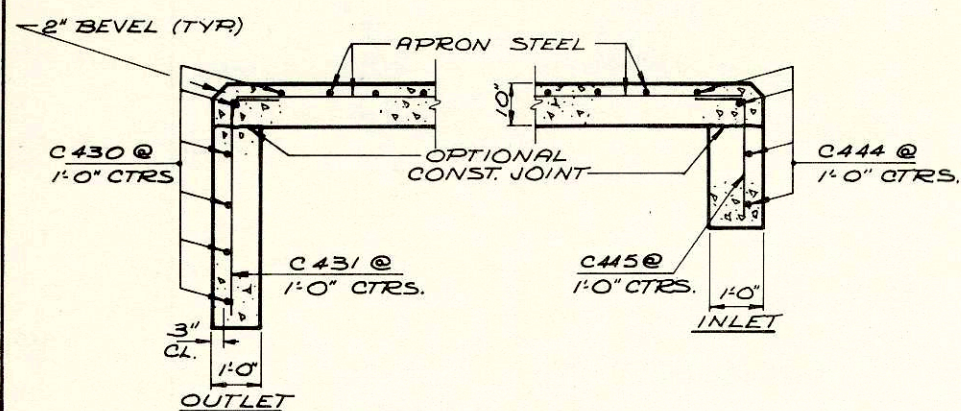
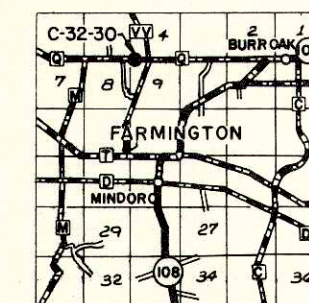
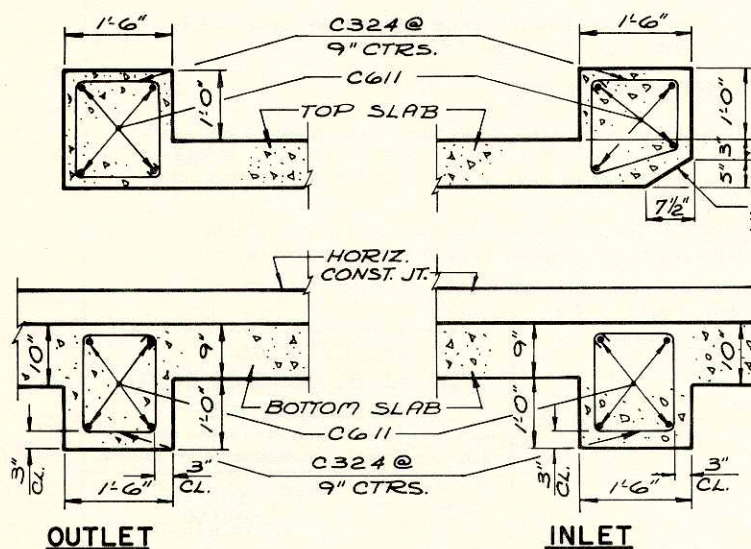
DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED
 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 THE EXISTING GROUND LINE WAS USED AS THE
 UPPER LIMITS FOR COMPUTATION OF EXCA-
 VATION FOR STRUCTURES QUANTITIES.

BENCH MARKS

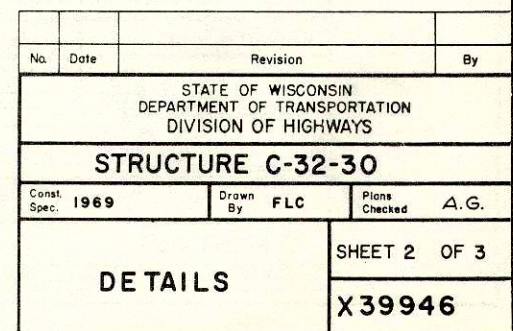
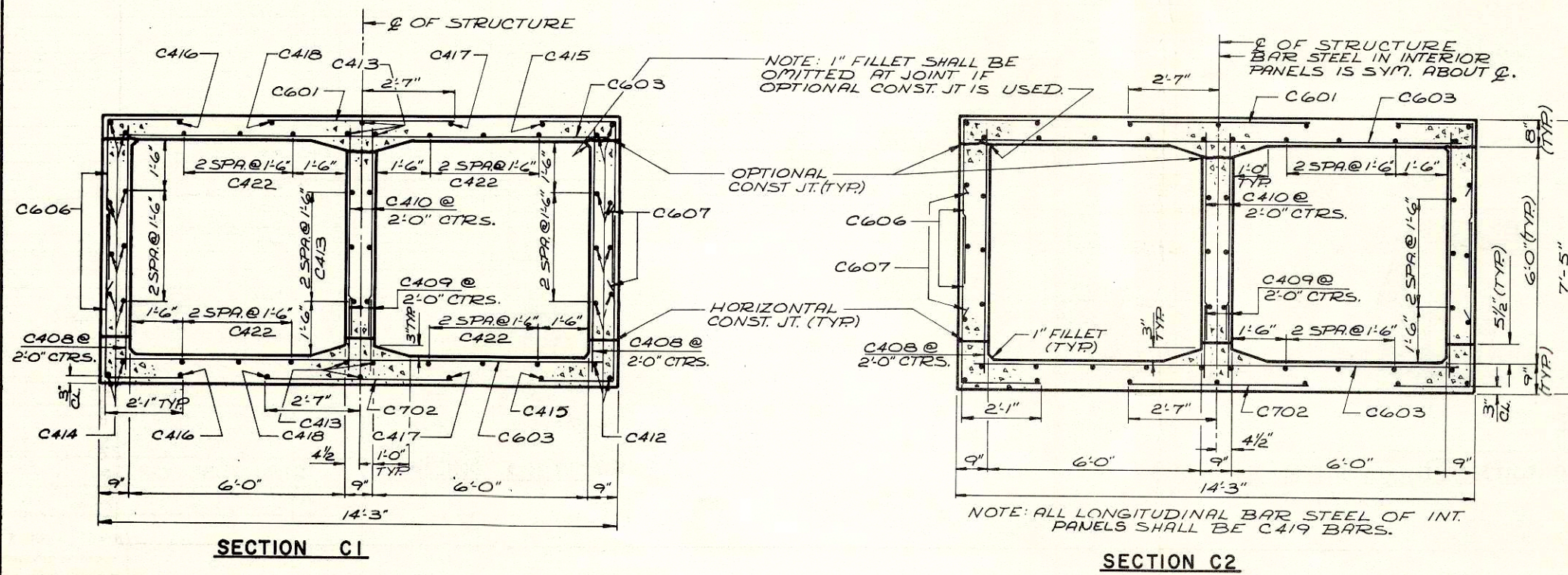
No.	STATION	DESCRIPTION	ELEV.
6	142+60	KIEL MARK TOP WING S.E. CORNER BRIDGE 75' LT.	763.48

HYDRAULIC DATA

Q 25 — 850 CFS.
 V — 12.5 FPS.

**INLET NOSE CENTERWALL DETAILS**

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE C-32-30			
C.T.H. "Q" OVER BOX CULVERT			
County	LA CROSSE	City	TN. FARMINGTON
Design Spec.	A.A.S.H.O. 1965	Load	H-20
Designed By	IBM	Drawn By	FLC
Checked By	IBM	Plans Checked	A.G.
Approved	W. A. Kline		3-5-69
Chief Bridge Engineer		Date	
DETAILS		SHEET 1 OF 3	
		X39945	

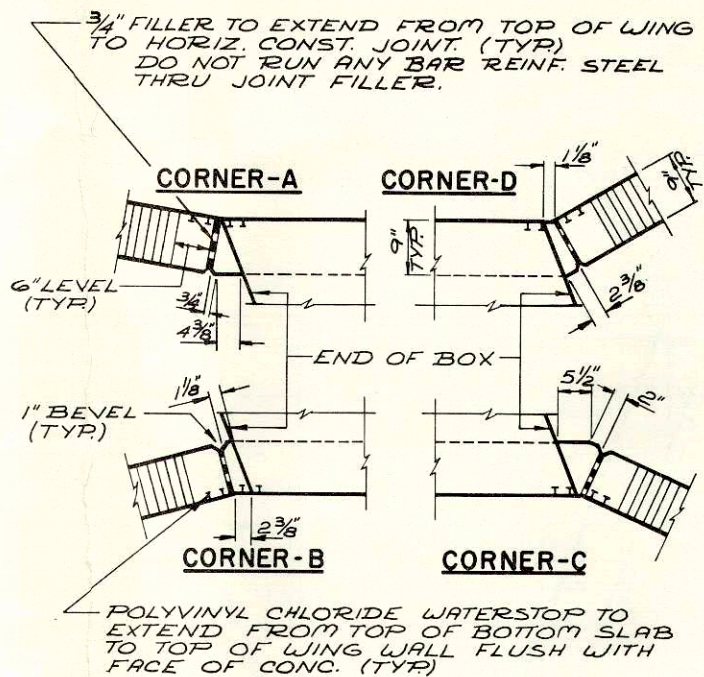
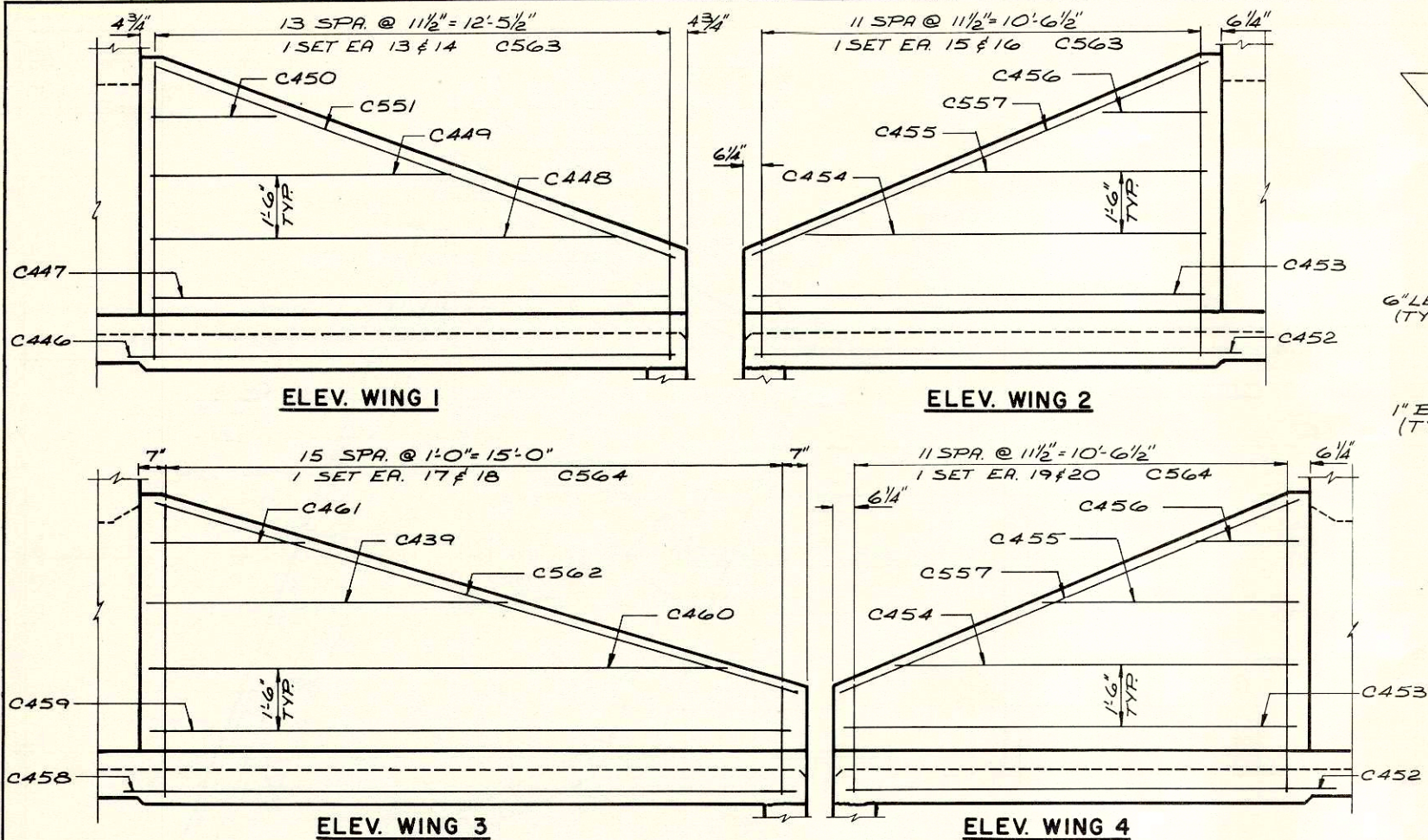


BILL OF BARS

MARK	No. REQD	LENGTH	BEND	CUT. DIA.	LOCATION
C601	305	5-2			BOX-TOP SLAB TRANS.
C702	248	5-2			" - BOT. "
C603	530	13-6			" - " TOP SLAB "
C604	6	14-8		X	" - TOP SLAB END PANEL " SET 1/2
C605	7	14-4		X	" - BOT. " " " " " 3/4
C606	468	6-5	X		" - CORNERS
C607	464	4-0	X		" "
C408	166	6-9			" - EXT. WALLS VERT.
C409	166	2-0			" - INT. WALL DOWELS "
C410	166	5-10			" " " "
C611	16	14-10			" - HEADERS TRANS.
C412	40	18-2			" - EXT. WALL END PANEL LONGIT.
C413	48	16-9			" - INT. " " " "
C414	20	29-9			" - EXT. WALL " " " "
C415	8	17-10			" - TOP & BOT. SLAB " " " "
C416	8	15-9			" " " " " " " "
C417	8	17-4			" " " " " " " "
C418	8	16-3			" " " " " " " "
C419	312	16-10			" - WALLS, TOP & BOT. SLAB INT. PANELS
C420	6	7-3		X	" - TOP & BOT. SLAB END PANEL SET 5/16
C421	6	12-6		X	" " " " " " " 7/8
C422	24	28-9			" " " " " " " "
C523	184	4-0			" - VERT. CONST. JOINT
C324	80	5-8			" - HEADER STIRRUPS (BEND IN FIELD)
C425	1	5-9			APRON - OUTLET
C426	1	10-0			" "
C427	1	9-3			" "
C428	1	4-0			" "
C429	28	14-6			" " & INLET
C430	6	19-9			" " CUT OFF WALL
C431	18	5-6	X		" " & " " "
C432	5	34-0		X	" " SET 9/10
C433	1	10-9			" - INLET
C434	1	8-6			" "
C435	1	6-6			" "
C436	1	4-3			" "
C437	1	2-3			" "
C438	1	10-6			" "
C439	2	8-9			" " & WING 3
C440	1	7-0			" "
C441	1	5-3			" "
C442	1	3-6			" "
C443	5	41-3		X	" " SET 11/12
C444	4	27-3			" " & CUT OFF WALL
C445	25	3-6	X		" " " " "
C446	2	13-3			WING 1 @ APRON
C447	1	12-6			" " HORIZ.
C448	1	11-3			" " "
C449	1	7-3			" " "
C450	1	3-0			" " "
C551	2	13-6			" " TOP
C452	4	11-9			" 2/4 @ APRON
C453	2	11-0			" " HORIZ.
C454	2	9-9			" " "
C455	2	6-3			" " "
C456	2	2-6			" " "
C557	4	12-0			" " TOP
C458	2	16-3			" 3 @ APRON
C459	1	15-6			" " HORIZ.
C460	1	14-0			" " "
C461	1	3-9			" " "
C562	2	16-3			" " TOP
C563	13	16-3	X	X	" 1/2 SETS 13, 14, 15 & 16 VERT.
C564	14	18-3	X	X	" 3/4 " 17, 18, 19 & 20 "

NOTE: BENT BARS IF USED IN THE CUTTING DIAGRAM SHALL BE BENT AFTER CUTTING.
ALL BENDING DIMENSIONS ARE OUT TO OUT OF BARS.
THE FIRST DIGIT OF A THREE DIGIT MARK SIGNIFIES THE BAR SIZE.

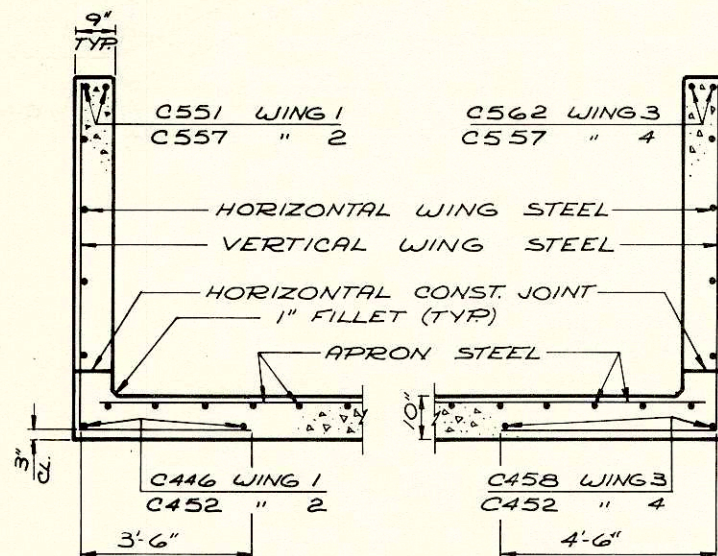
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE C-32-30			
Const. Spec.	19 6 9	Drawn By	FLC
		Plans Checked	A.G.
DETAILS		SHEET 3 OF 3 X39947	



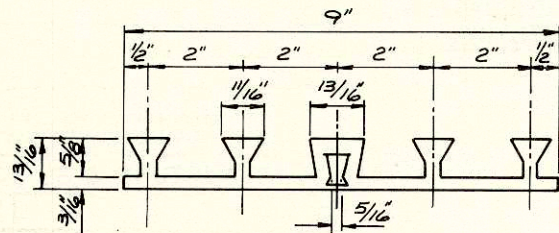
CUTTING DIAGRAM

"H" IS NO. OF BARS REQ'D. BEFORE CUTTING.

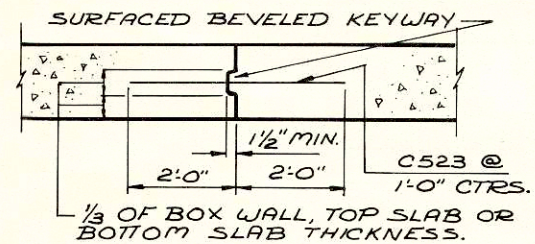
MARK	SET No	C	D	E	F	G	H	SETS REQD
C604	SET 1	3-4				11-4		1 SET 1
	" 2		11-4	14-0	3-4		6	1 " 2
C605	" 3	2-9				11-7		1 " 3
	" 4		11-7	14-4	2-9		7	1 " 4
C420	" 5	3-0				4-3		2 " 5
	" 6		4-3	7-3	3-0		3	2 " 6
C421	" 7	5-8				6-10		2 " 7
	" 8		6-10	12-6	5-8		3	2 " 8
C432	" 9	17-0				19-3		1 " 9
	" 10		17-0	34-0	14-9		5	1 " 10
C443	" 11	20-6				26-3		1 " 11
	" 12		20-9	41-3	15-0		5	1 " 12
C563	" 13	8-3				10-6		1 " 13
	" 14		8-0	16-3	5-9		7	1 " 14
	" 15	8-3				10-6		1 " 15
C564	" 16		8-0	16-3	5-9		6	1 " 16
	" 17	9-3				11-6		1 " 17
	" 18		9-0	18-3	6-9		8	1 " 18
	" 19	9-3				11-6		1 " 19
	" 20		9-0	18-3	6-9		6	1 " 20



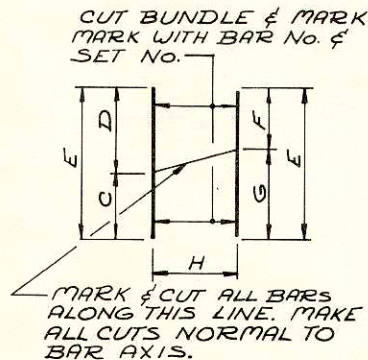
SECTION THRU WING WALLS

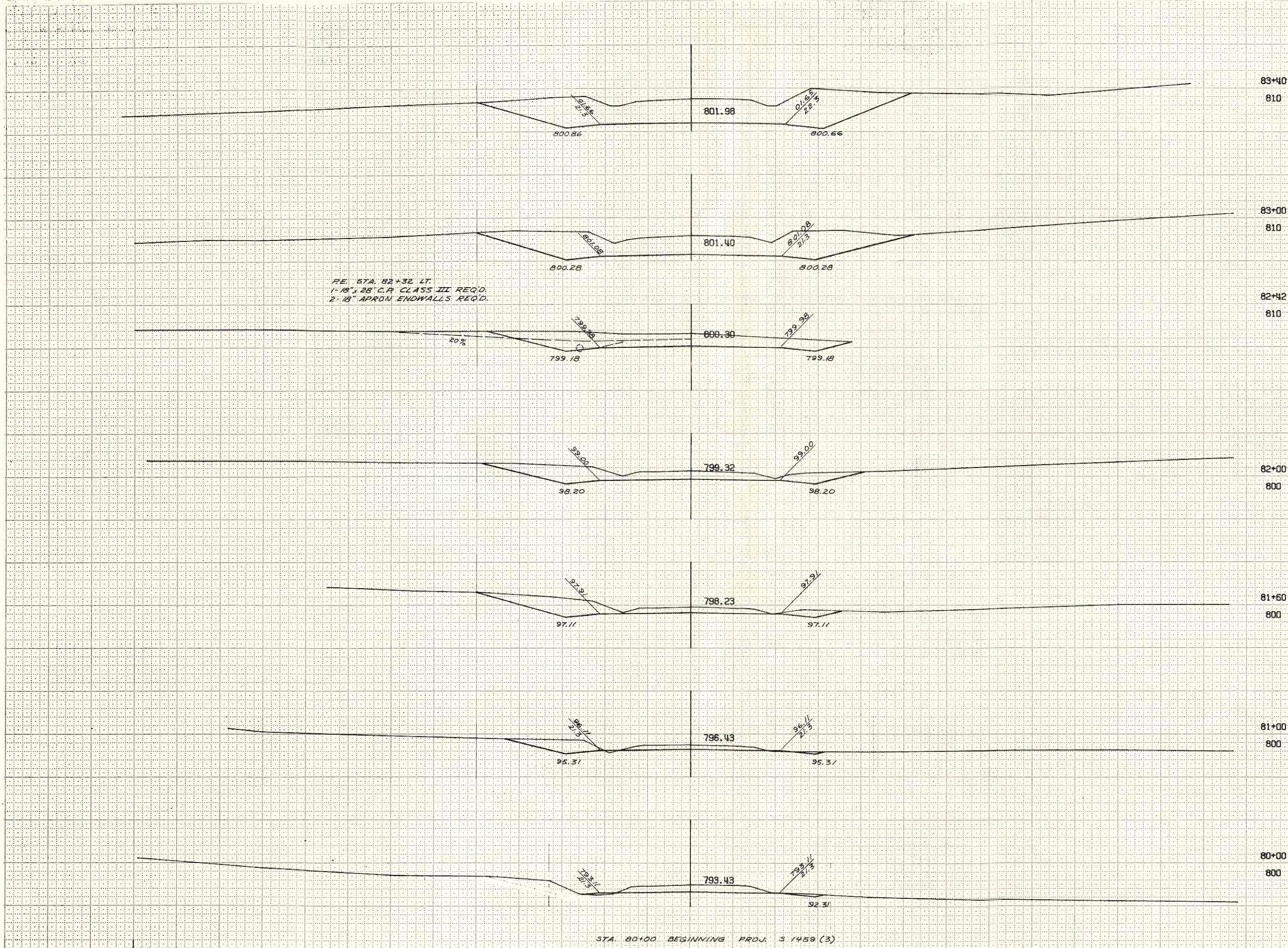


POLYVINYL CHLORIDE WATERSTOP DETAILS



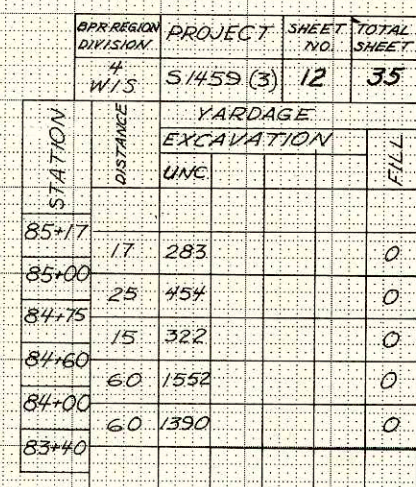
VERTICAL CONST. JOINT



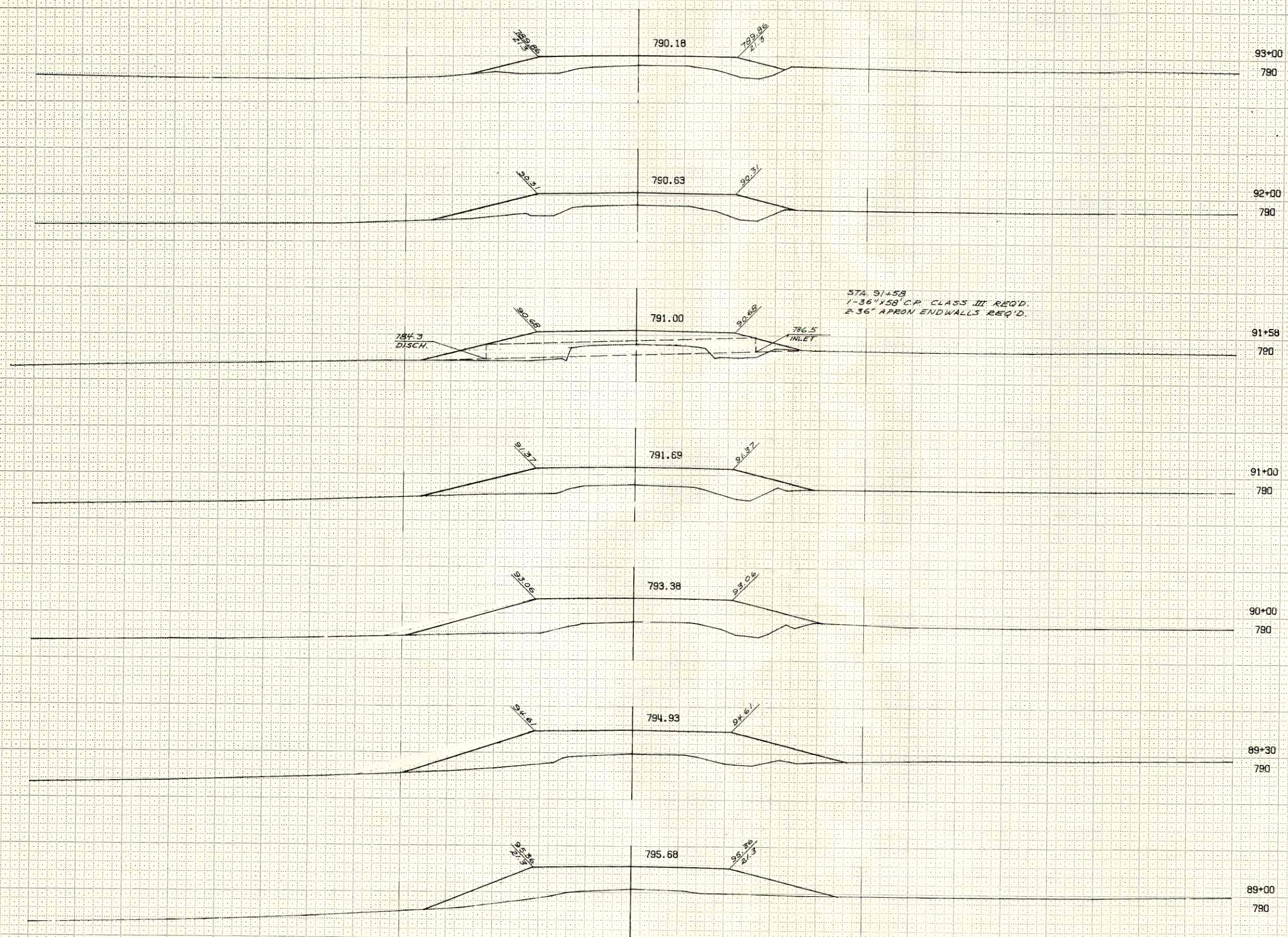


STATION	DISTANCE	YARDAGE		FILL
		EXCAVATION		
		UNC.		
83+40	40	683		0
83+00	58	681		0
82+42	42	307		0
82+00	40	227		0
81+60	60	231		2
81+00	100	222		9
80+00				

1" = 10' HOR
 1" = 10' VER
 5006 1



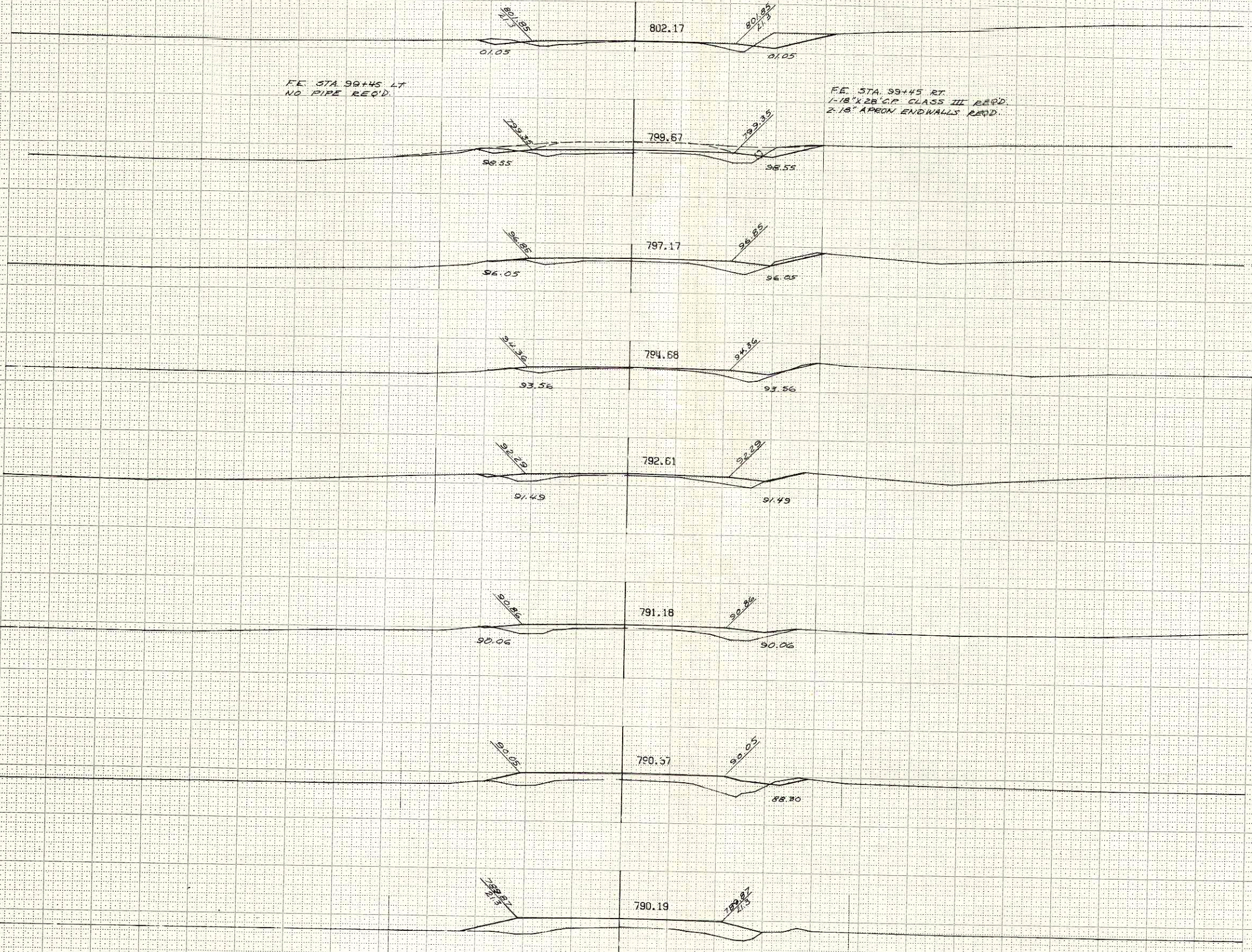
1 = 10 HOR	
1 = 10 VER	
5006	2



STA. 91+58
1-36" 158' C.P. CLASS III REQ'D.
2-36" APRON ENDWALLS REQ'D.

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC.			
93+00	100	0			730
92+00	42	0			396
91+58	58	0			638
91+00	100	0			1393
90+00	70	0			1192
89+30	30	0			476
89+00	40	0			575
88+60					

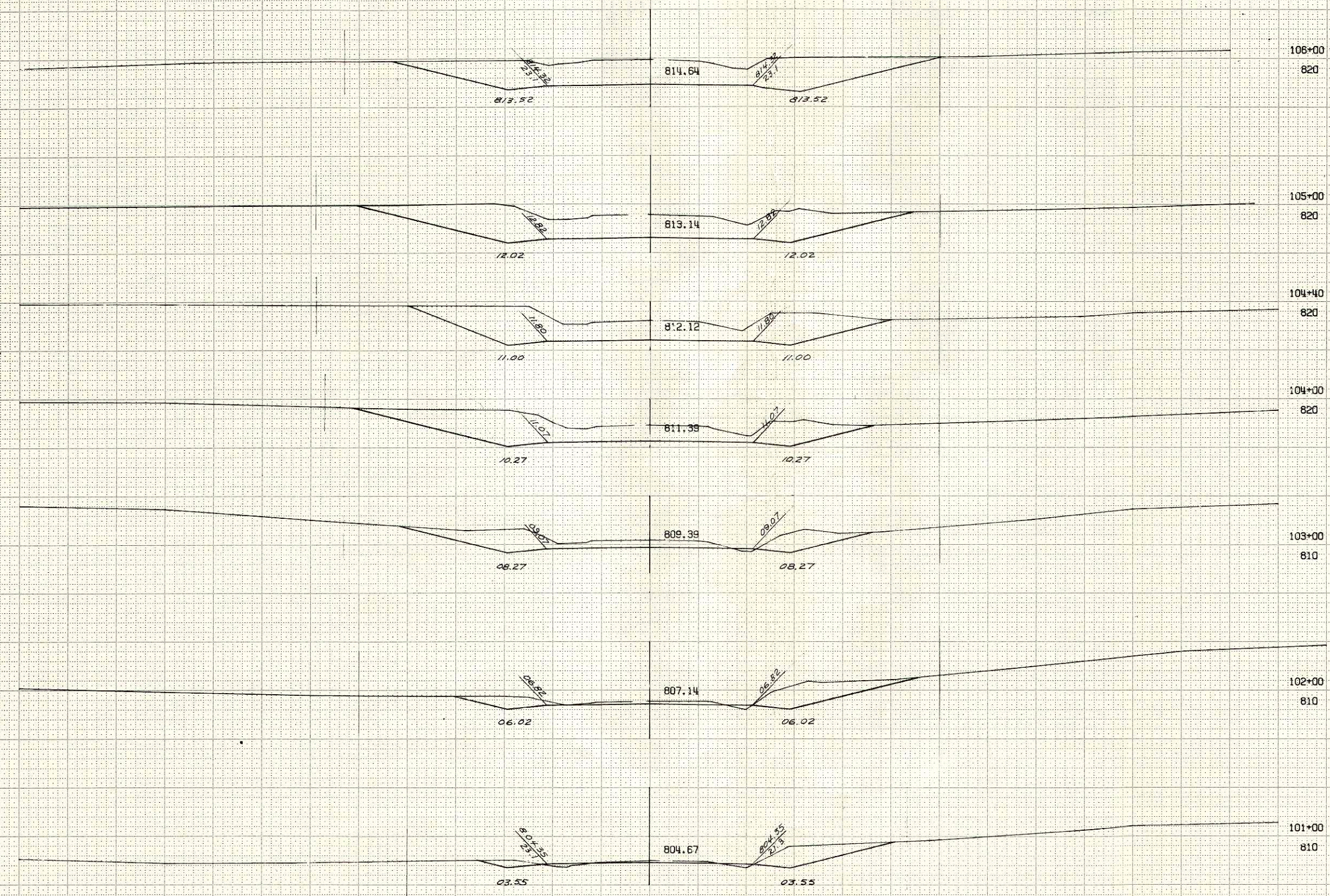
1 = 10 HOR
1 = 10 VER
5006 4



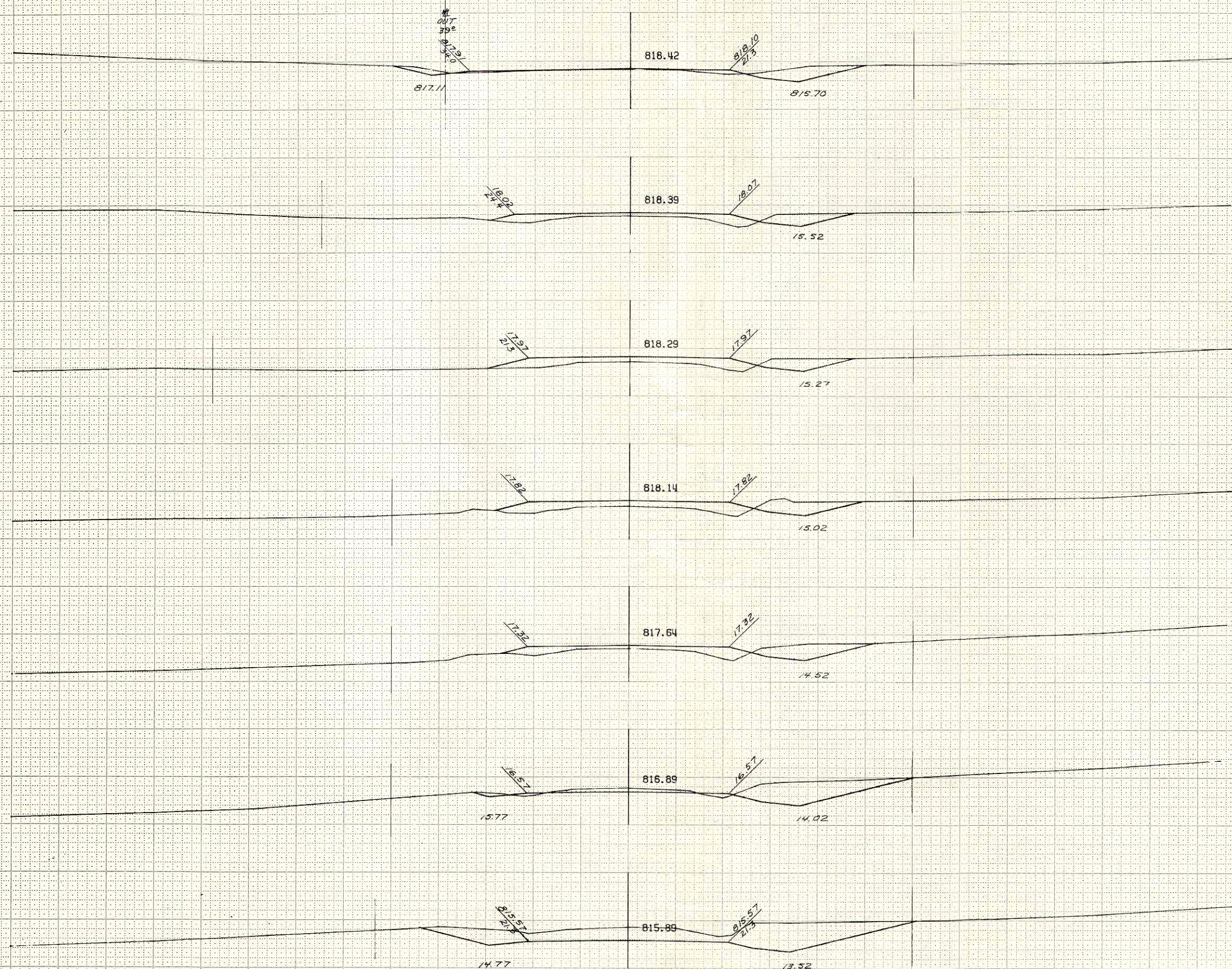
BPR REGION DIVISION		PROJECT		SHEET NO.	TOTAL SHEETS
4 W/5		S 1459 (3)		15	35
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC			
100+00					
99+00	100	95			127
	100	45			
98+00					175
	100	16			155
97+00					
	100	9			144
96+00					
	100	5			207
95+00					
	100	10			333
94+00					
	55	4			252
93+45					
	45	0			250
93+00					

1 = 10 HPA
 1 = 10 VEA
 5006 5

BPR REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S.1459(3)	16	35
WIS			
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
106+00	100	1766	0
105+00	60	984	0
104+40	40	574	0
104+00	100	1017	3
103+00	100	592	8
102+00	100	412	17
101+00	100	220	56
100+00			

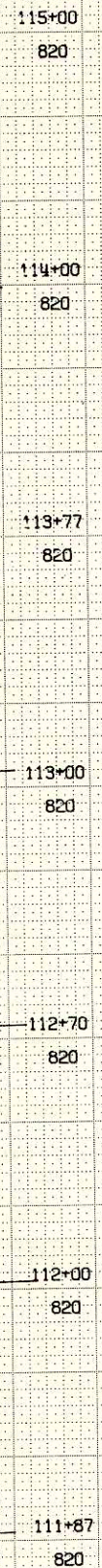


1 = 10 HOR
1 = 10 VER
5006 6



BPR REGION		PROJECT		SHEET		TOTAL	
DIVISION		NO.		NO.		SHEETS	
4		S 1459 (3)		17		35	
WIS							
STATION	DISTANCE	YARDAGE					
		EXCAVATION					FILL
		UNC.					
111+35							
	35	46					51
111+00							
	50	57					134
110+50							
	50	68					155
110+00							
	100	174					263
109+00							
	100	337					117
108+00							
	100	784					12
107+00							
	100	1426					0
106+00							

1" = 10' HOR
 1" = 10' VER
 5006 7



STATION
1115+0
114+0
113+7
113+0
112+7
112+0
111+E
111+3

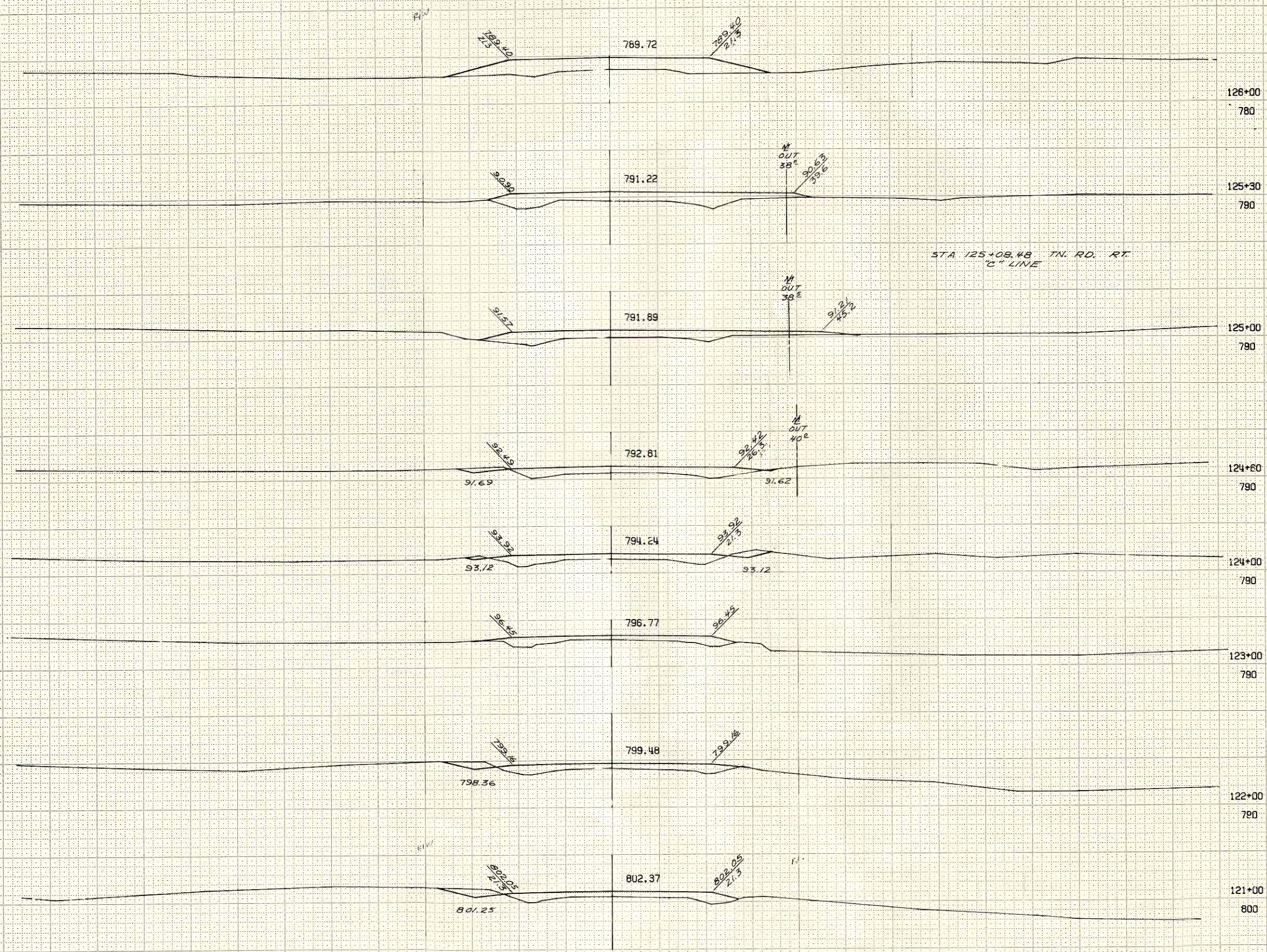
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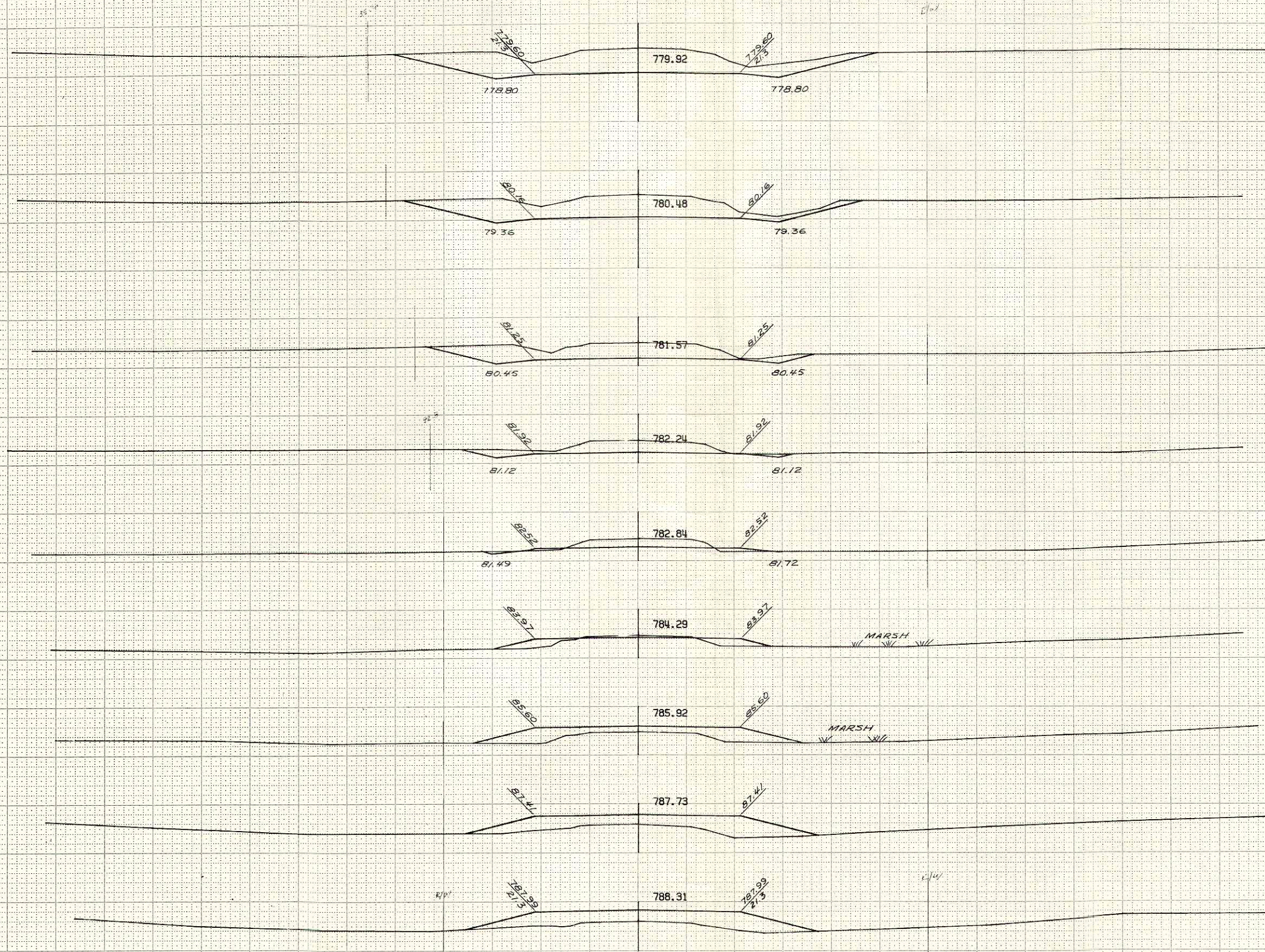
1 = 10 MOR
1 = 10 VER
5006      8

```


BPR REGION		PROJECT	SHEET NO.	TOTAL SHEETS
4		S 1459(3)	20	35
STATION	DIVISION	YARDAGE		
		EXCAVATION		
		UNC		FILL
126+00	70	0		383
125+30	30	0		76
125+00	40	5		141
124+60	60	19		167
124+00	100	19		248
123+00	100	20		244
122+00	100	47		244
121+00	100	48		272
120+00				

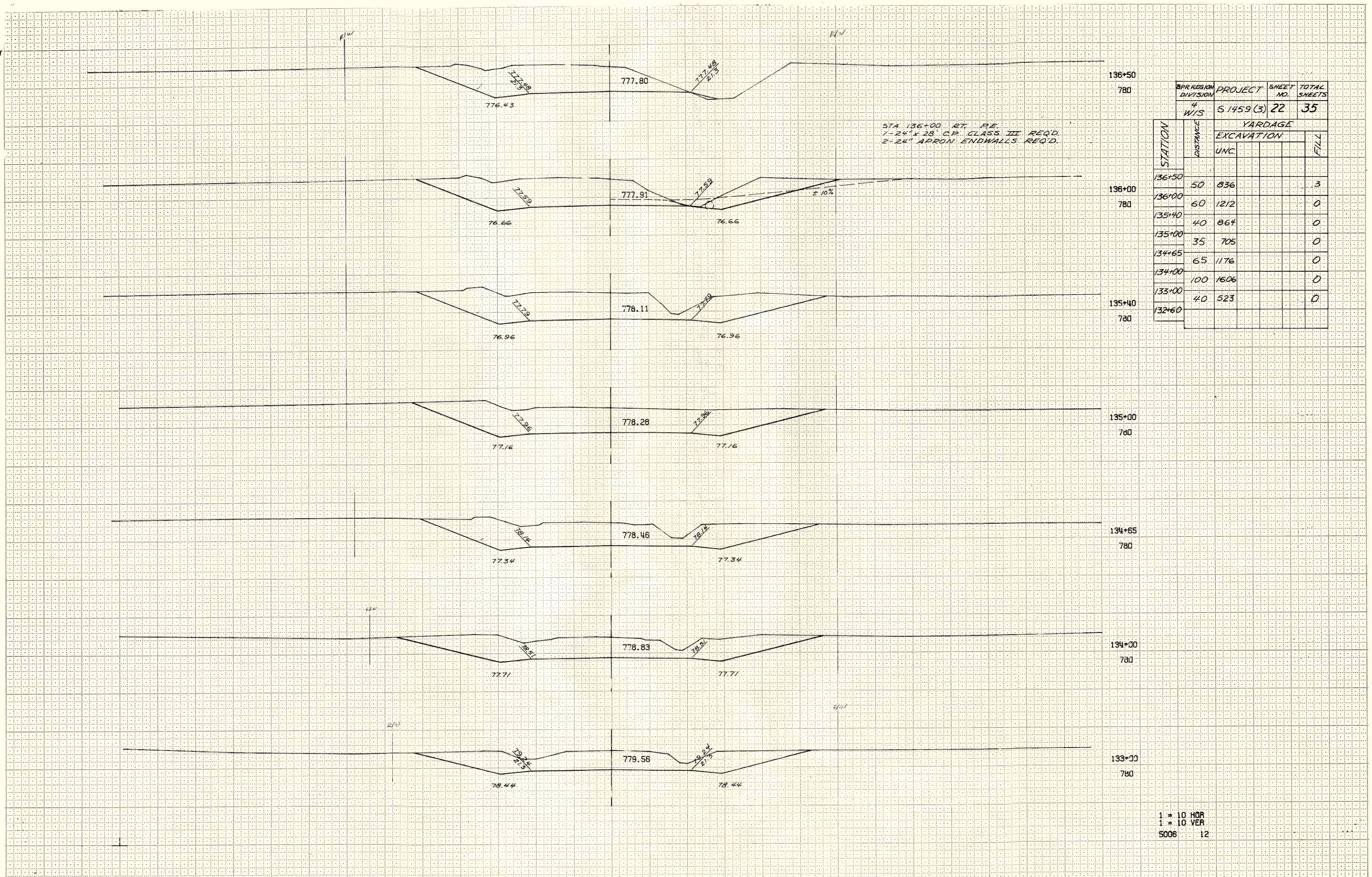
1" = 10' HOR
1" = 10' VER
S006 10





BPR REGION		PROJECT	SHEET NO.	TOTAL SHEETS
DIVISION	#			
WIS	51459 (3)	21	35	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		
		UNC		FILL
132+60	60	647		0
132+00	100	809		0
131+00	55	267		0
130+45	45	113		6
130+00	100	101		73
129+00	100	13		274
128+00	100	0		530
127+00	30	0		190
126+70	70	0		439
126+00				

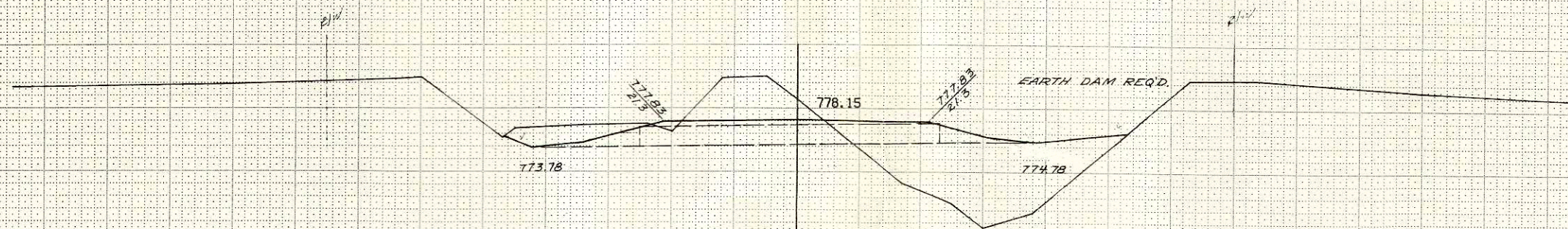
1 = 10 HOR
1 = 10 VER
5006 11



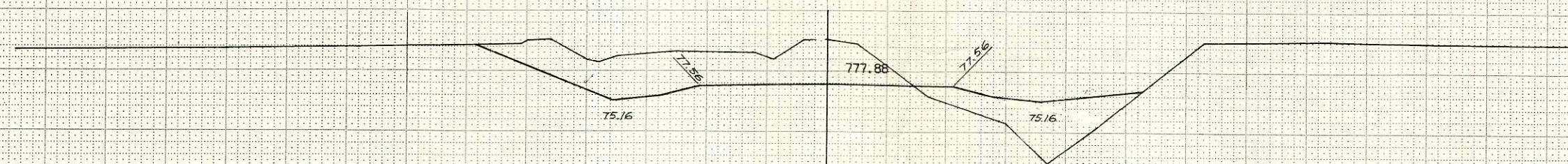
BPR REGION DIVISION		PROJECT	SHEET NO.	TOTAL SHEETS
4 W/S				
		5.1459 (3)	22	35
STATION	DISTANCE	YARDAGE		
		EXCAVATION		
		UNC		FILL
136+50				
	50	836		3
136+00				
	60	1212		0
135+40				
	40	864		0
135+00				
	35	705		0
134+65				
	65	1176		0
134+00				
	100	1606		0
133+00				
	40	523		0
132+60				

STA. 139+80
 36" x 50" C.P. CLASS III REQ'D.
 2-36" APRON ENDWALLS REQ'D.
 SKEW 15° L.H.F.

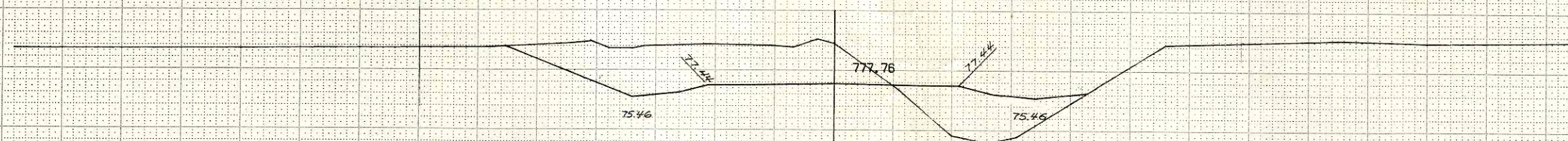
BPR REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	51459(3)	23	35
STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNC.	FILL
139+80	80	788	860
139+00	60	837	381
138+40	40	593	193
138+00	100	1438	248
137+00	50	680	41
136+50			



139+80
 780

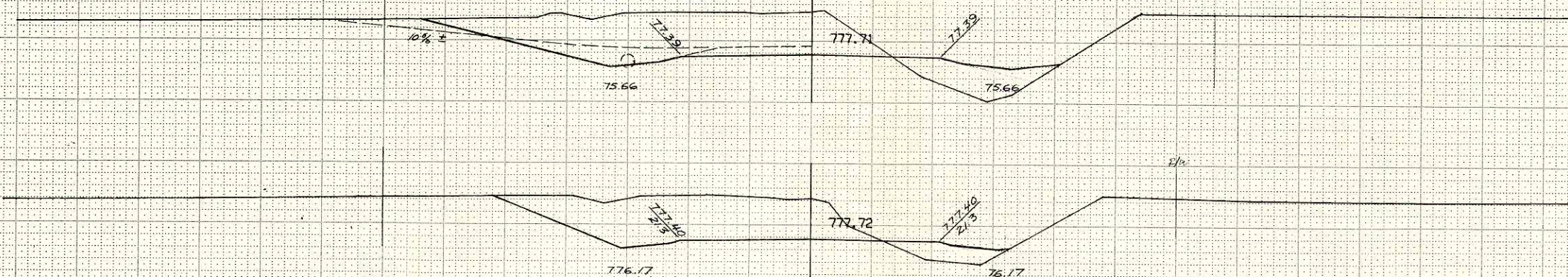


139+00
 780

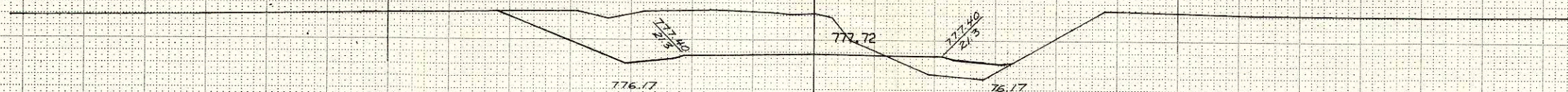


138+40
 780

STA. 138+00 LT. F.E.
 1-24" x 28" C.P. CLASS III REQ'D.
 2-24" APRON ENDWALLS REQ'D.

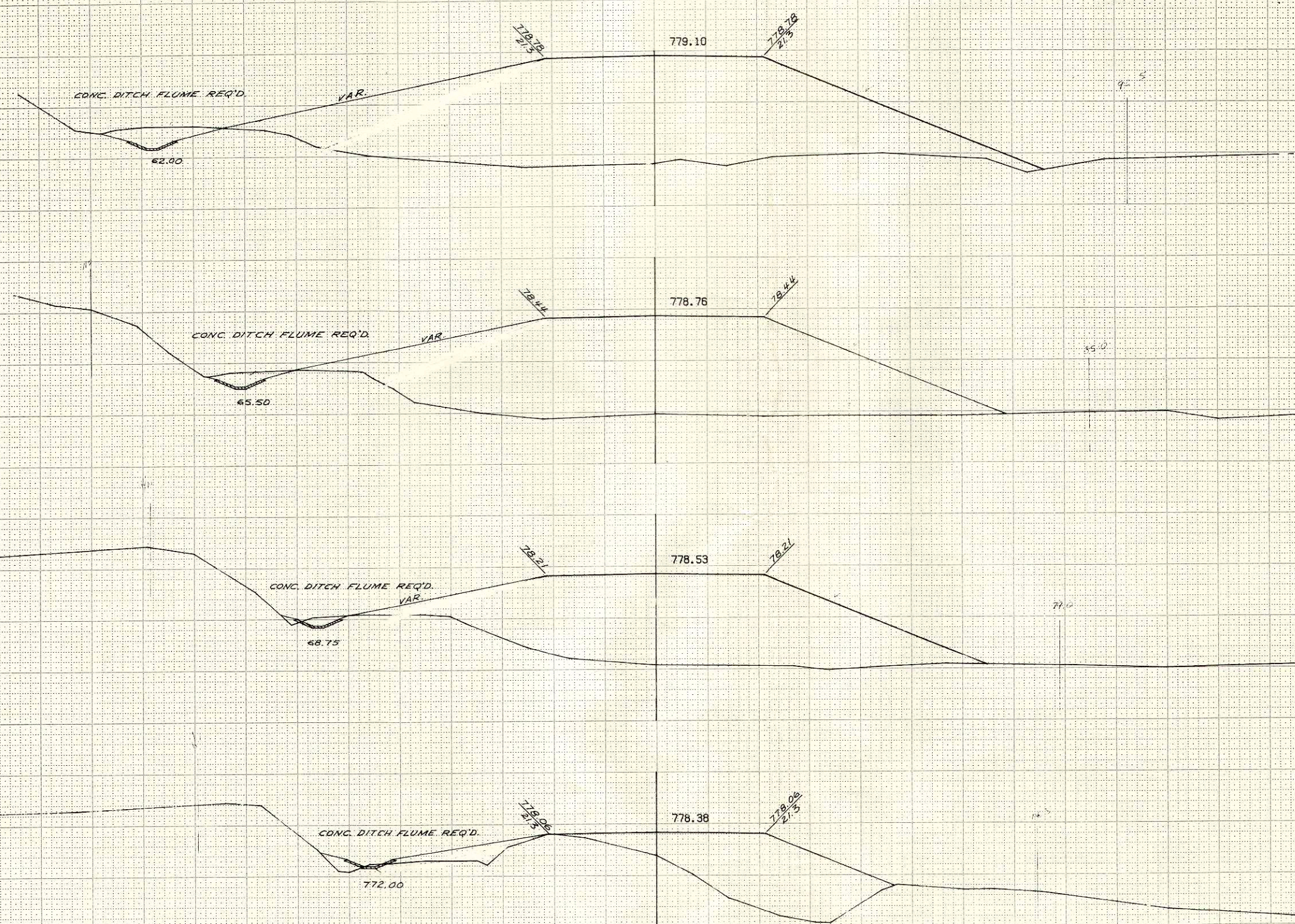


138+00
 780



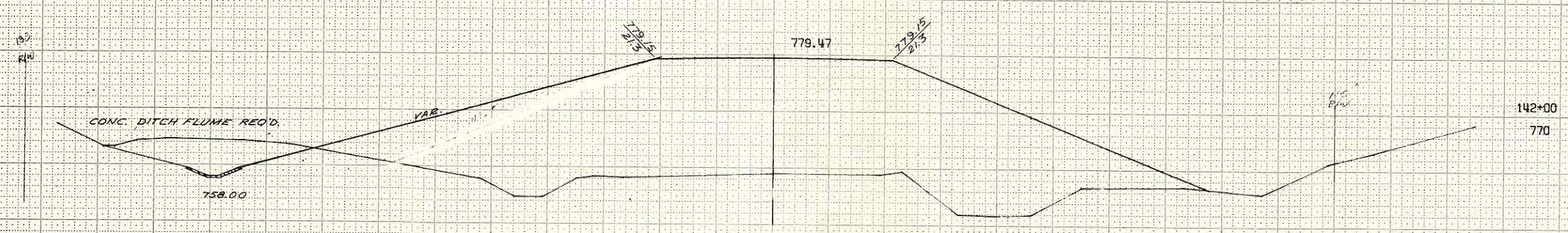
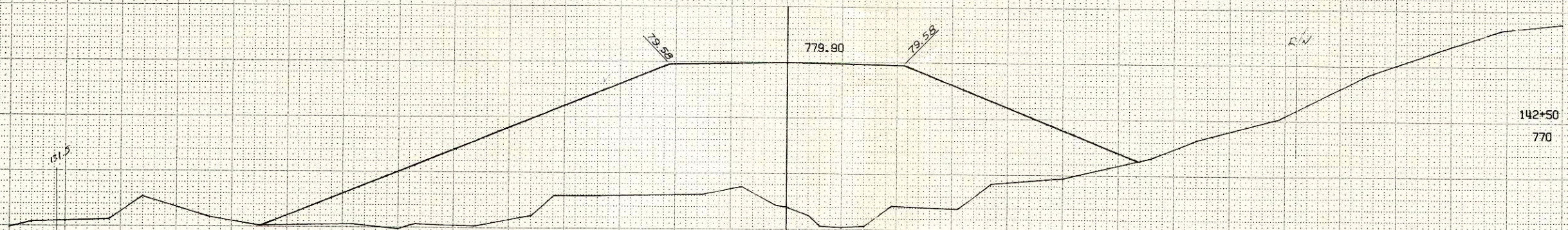
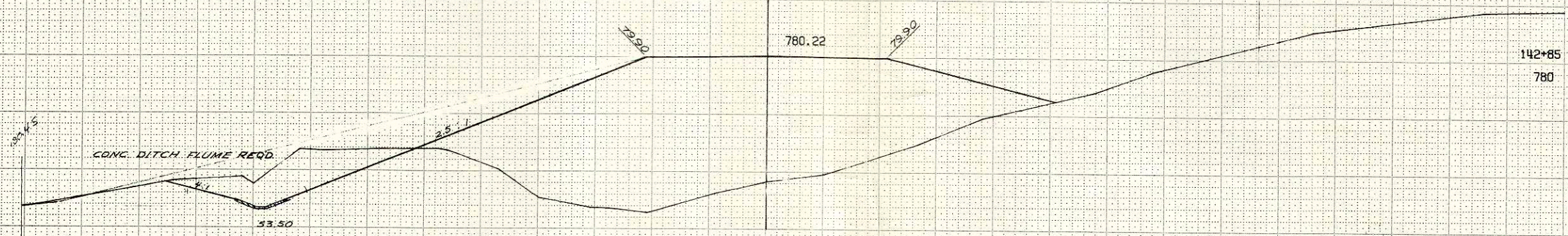
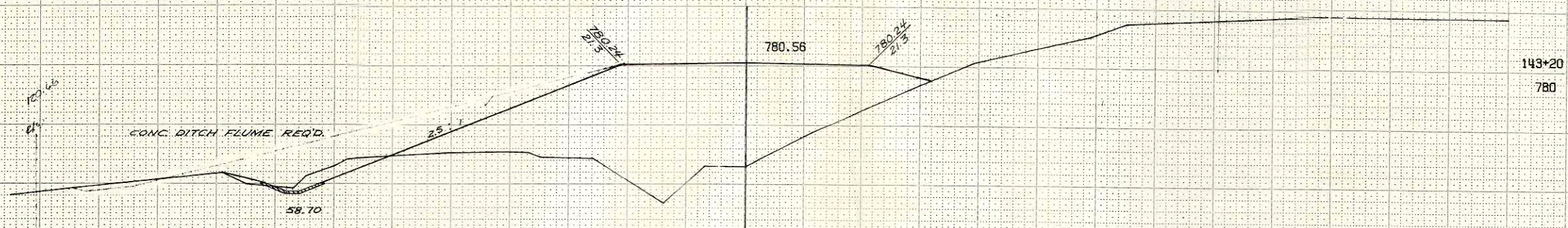
137+00
 780

1 = 10 H²R
 1 = 10 VER
 5006 13



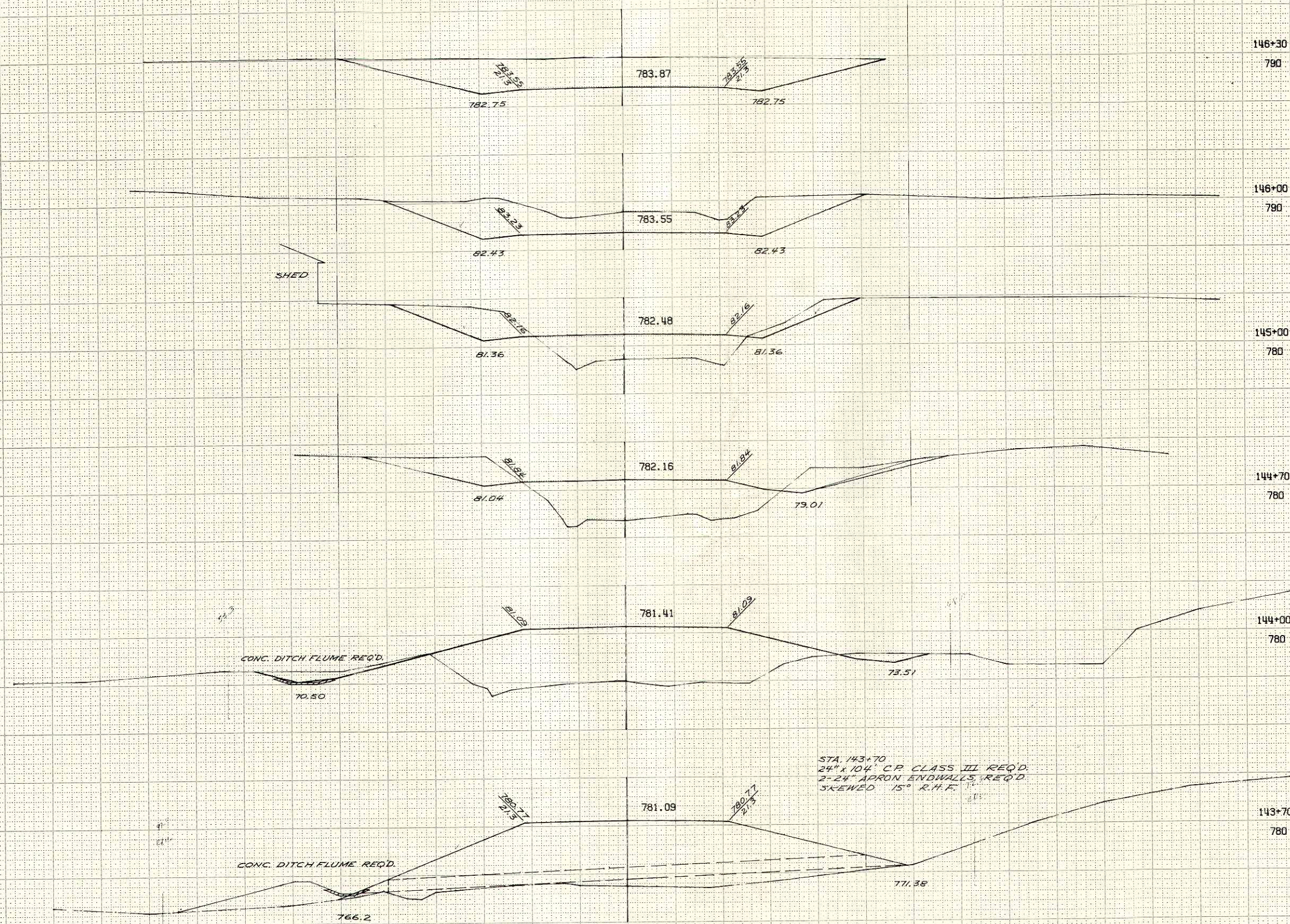
BPR REGION DIVISION		PROJECT	SHEET NO.	TOTAL SHEETS	
4 W/S		51459 (3)	24	35	
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC			
141+50	50	65			3554
141+00	40	24			2304
140+60	30	19			1063
140+30	50	143			904
139+80					

1 = 10 H3R
 1 = 10 VER
 5006 14



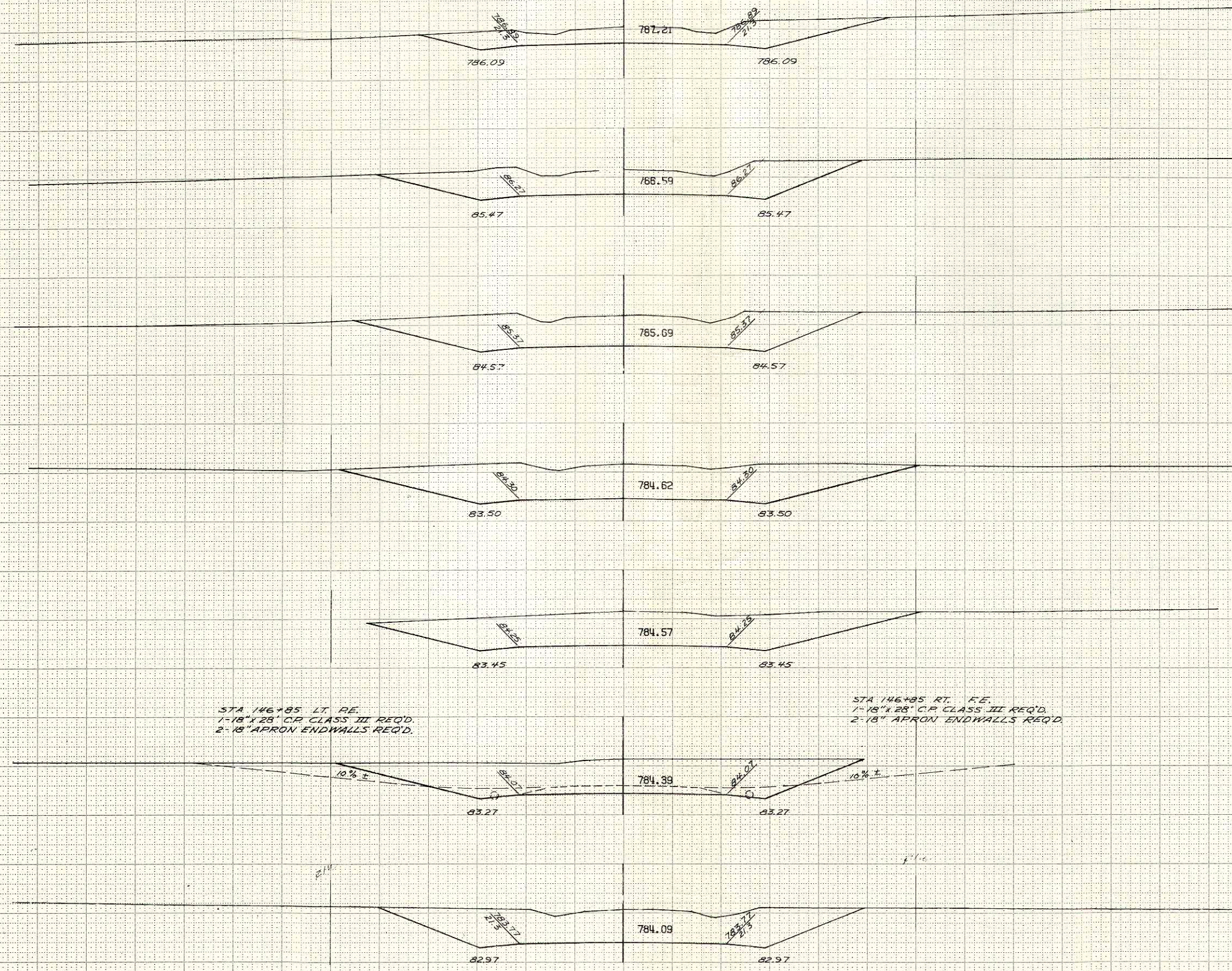
PER REGION	PROJECT	SHEET	TOTAL
DIVISION	NO.	NO.	SHEETS
4	51459(3)	25	35
W/S			
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
143+20	35	120	1800
142+85	35	104	2797
142+50	50	117	4554
142+00	50	161	4089
141+50			

1 = 10 H*V
 1 = 10 VER
 5006 15



APR REGION DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4 WIS	S 1459 (3)	26	35
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
146+30	30	569	
146+00	100	1103	400
145+00	30	178	323
144+70	70	300	1501
144+00	30	30	1088
143+70	50	24	2040
143+20			

1 = 10 HOR
1 = 10 VER
5006 16

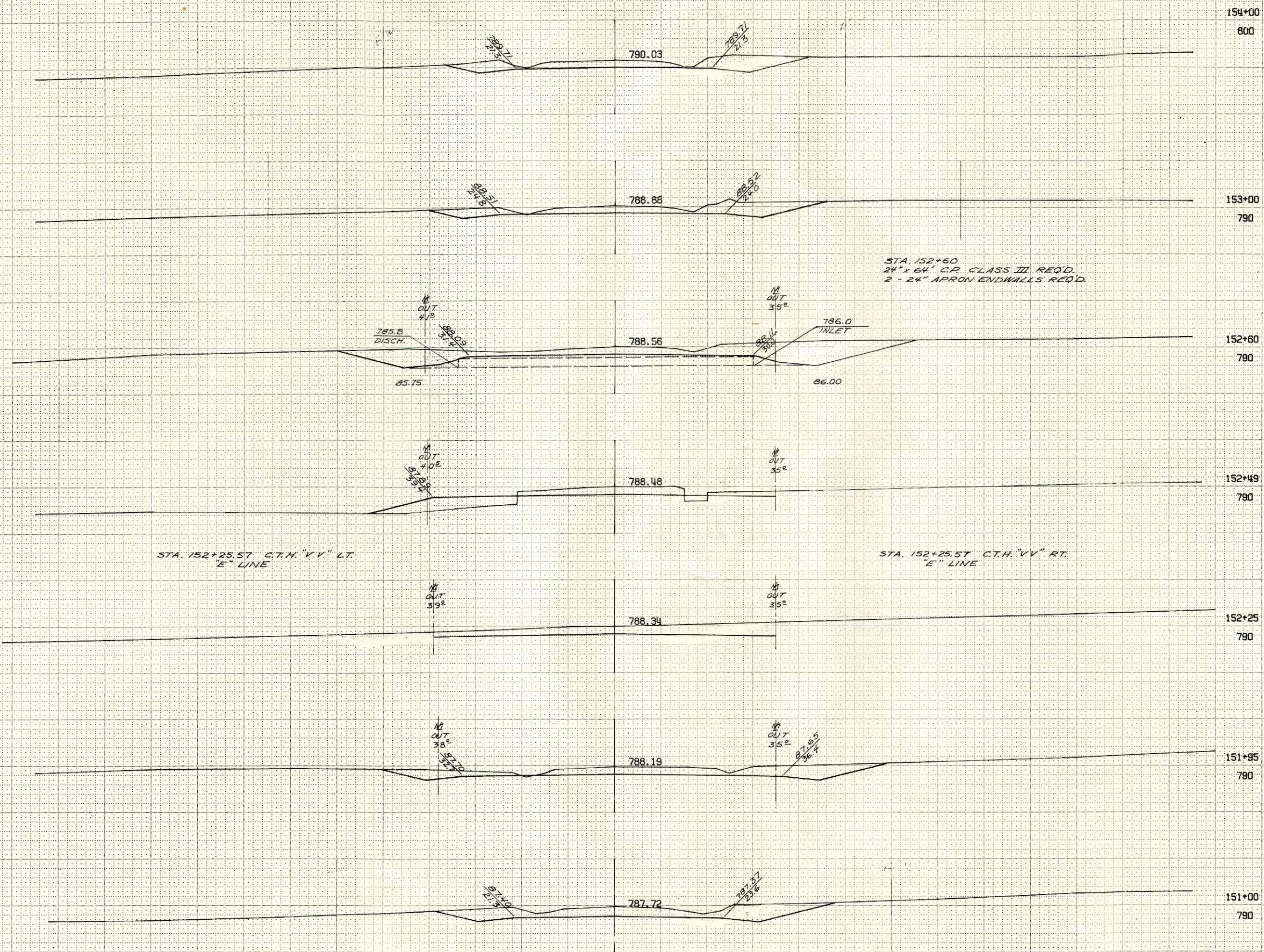


STA 146+85 LT. P.E.
 1-18" x 28" C.P. CLASS III REQ'D.
 2-18" APRON ENDWALLS REQ'D.

STA 146+85 RT. F.E.
 1-18" x 28" C.P. CLASS III REQ'D.
 2-18" APRON ENDWALLS REQ'D.

BPR REGION DIVISION		PROJECT	SHEET NO.	TOTAL SHEETS	
4 W/5	S 1459(3)	27	35		
STATION	DISTANCE	YARDAGE			FILL
		EXCAVATION			
		UNC.			
150+00	100	1331			0
149+00	100	1821			0
148+00	100	2239			0
147+00	5	116			0
146+95	17	375			0
146+78	28	595			0
146+50	20	416			0
146+30					

1" = 10' HOR
 1" = 10' VER
 5006 17

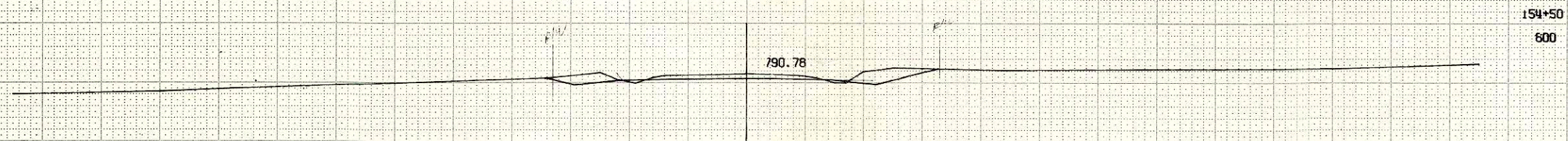


1	=	10	HOR
1	=	10	VER
5006			18

STATE REGION DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4 WIS	5.1459 (3)	29	35

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
154+50	50	151	1
154+00			

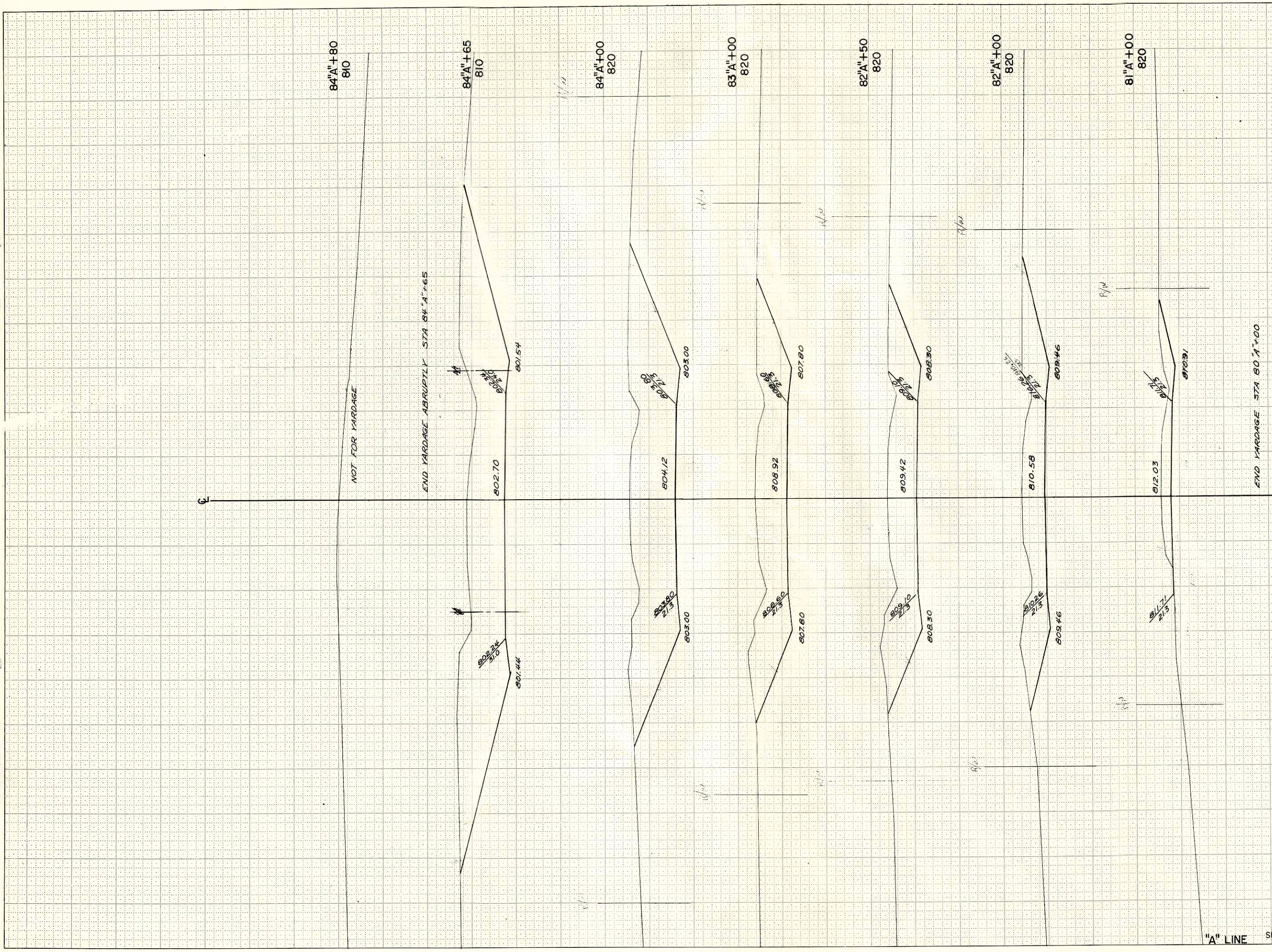
STA. 154+50 END PROJ. 5.1459 (3)



1" = 10' HOR
1" = 10' VER
5006 19

NOT FOR YARDAGE

NOT FOR YARDAGE



84'A+80
810

84'A+65
810

84'A+00
820

83'A+00
820

82'A+50
820

82'A+00
820

81'A+00
820

NOT FOR YARDAGE

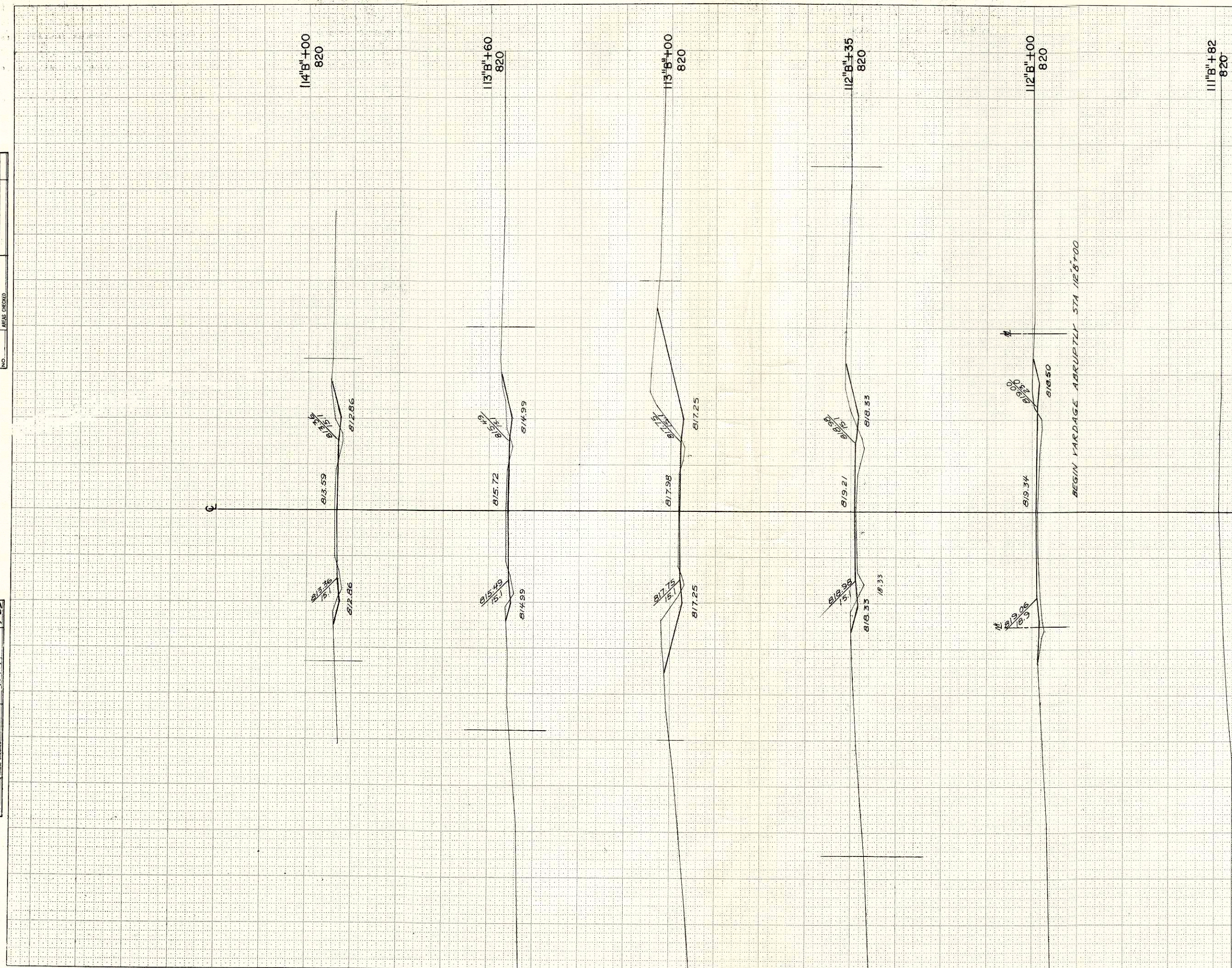
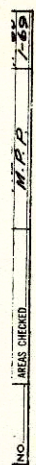
END YARDAGE ABRUPTLY STA 84'A+65

END YARDAGE STA 80'A+00

"A" LINE SHEET TOTAL

B.P. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	SI459(3)	30	35

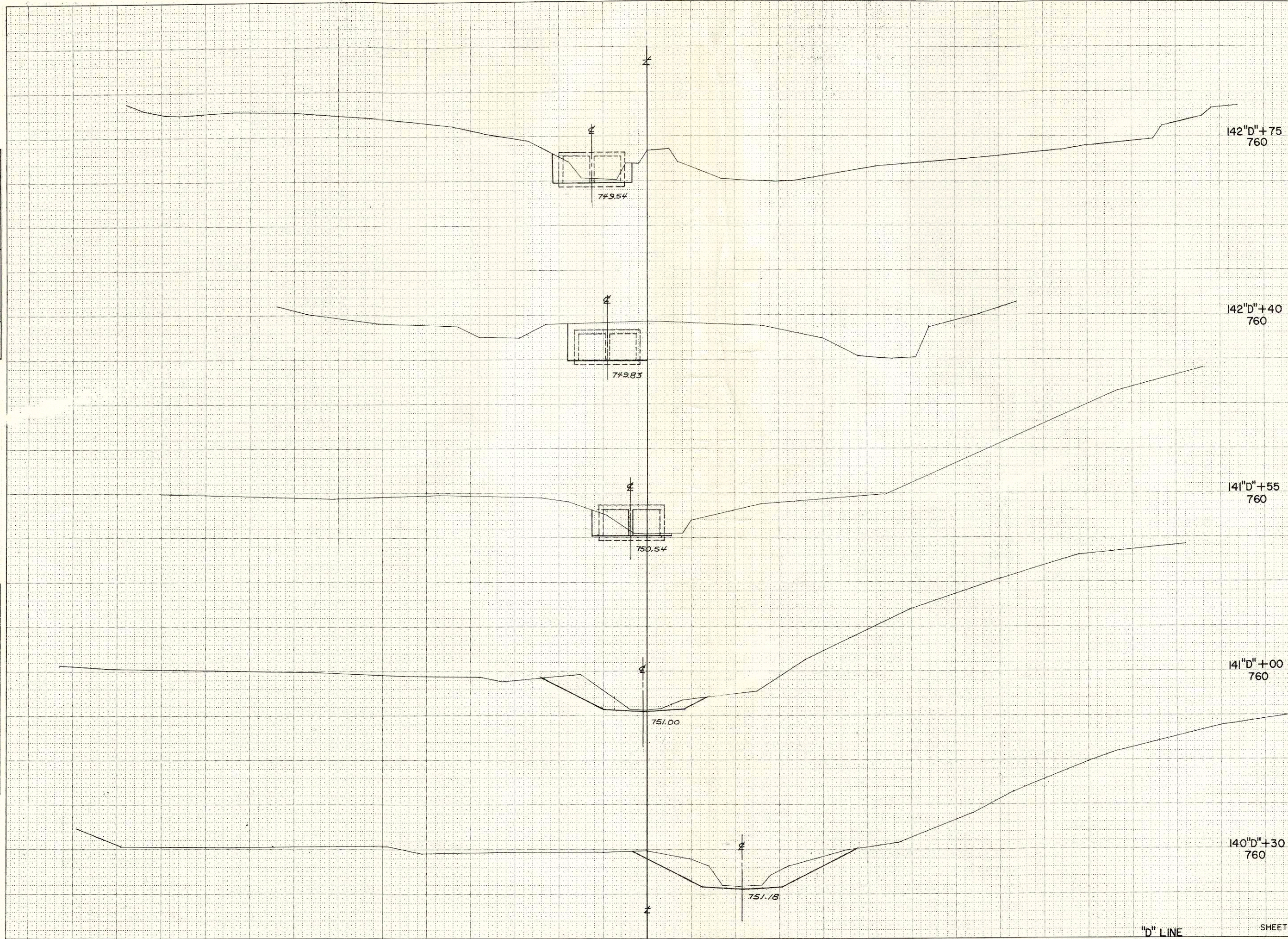
STATION	YARDAGE									
	EXCAVATION									
	DISTANCE	UNC.								FILL
80'A+00	100	183	552	874	1033	2726	2011			0
81'A+00	100									0
82'A+00	100									0
83'A+00	100									0
84'A+00	100									0
84'A+65	65									0
TOTAL										

[illegible]

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	SI459(3)	33	35
WIS.			

NOTE BOOK TEMPLATE
NO. _____
AREAS CHECKED _____

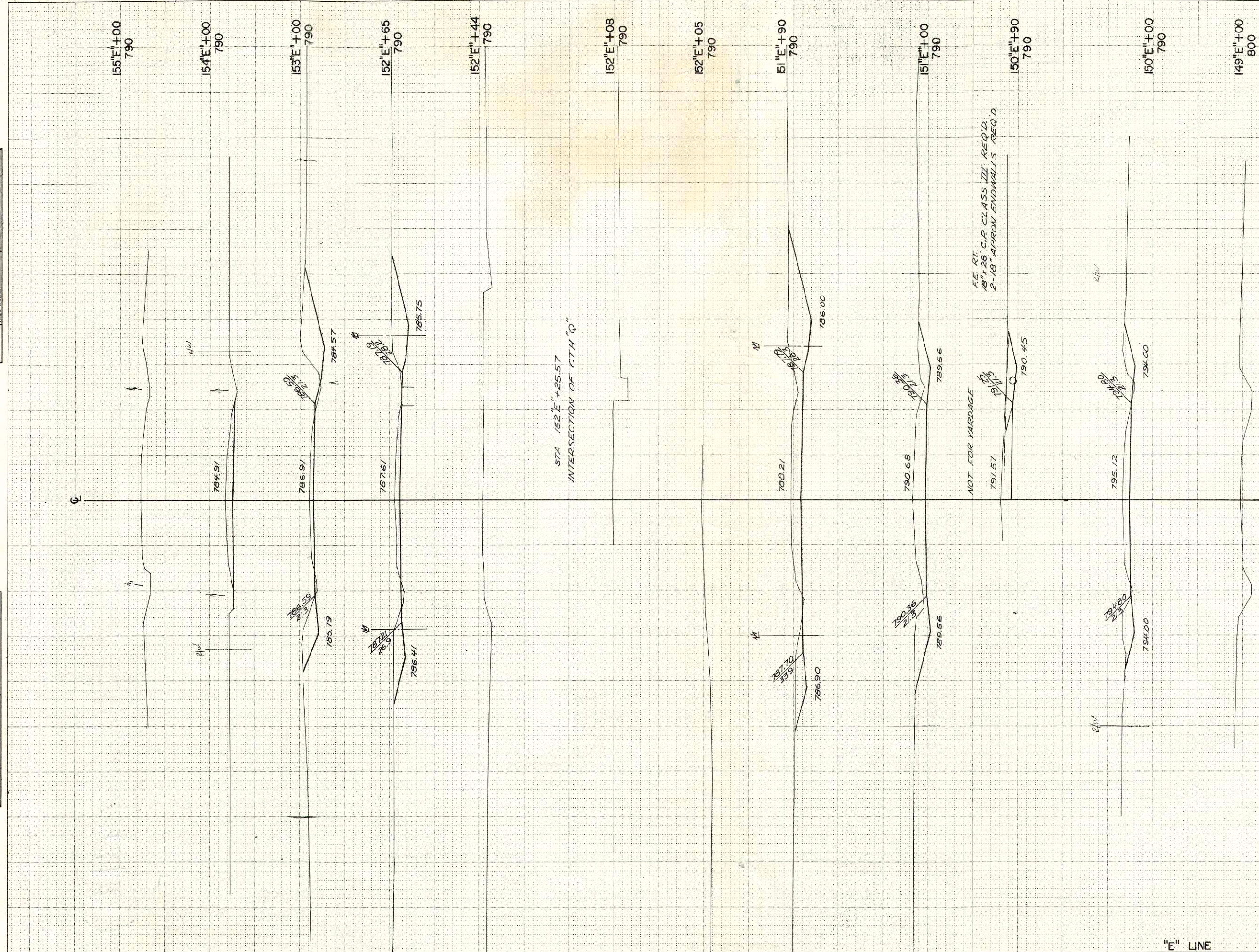
NOTE BOOK TEMPLATE
NO. _____
AREAS CHECKED _____



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC			
142'D'+75 760					
+11	11	30			
141'D'	70	246			
+30	30	65			
140'D'					
141'D'+55 760					
141'D'+00 760					
140'D'+30 760					
SHEET TOTAL	341				

NO. AREAS CHECKED

NO. AREAS CHECKED M.P.D. 1-63



FE RT.
18" x 28" C.P. CLASS III REQ'D.
2-18" APRON ENDWALLS REQ'D.

NOT FOR YARDAGE

"E" LINE

SHEET TOTAL

B.P.R. REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.		S1459(3)	35	35

STATION	YARDAGE				
	DISTANCE	EXCAVATION			FILL
		UNC.			
154'E					
100	215				0
153'E					
35	80				0
152'E					
151'E					
150					
150'E					
90					
150'E					
90	466				0
150'E					
100	464				0
150'E					
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