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STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

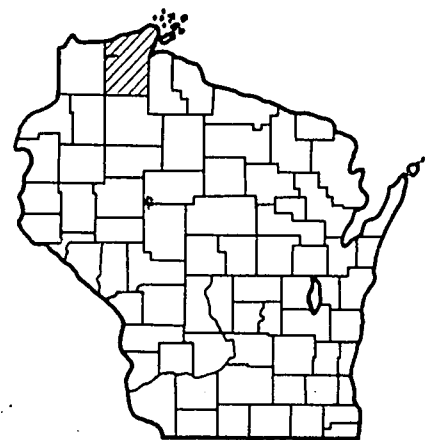
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

WEST COUNTY LINE-IRON RIVER ROAD

USH 2

BAYFIELD COUNTY



AS BUILT

PROJECT IDENTIFICATION NUMBER

1184-1-71

Scales

Plan 1 in. = 200 ft. (SEC. 1) 1 in. = 20 FT. (SEC. 2)

Profile Hor. 1 in. = 20 FT. Vert. 1 in. = 2 FT. (SEC. 2)

Cross Sections Hor. 1 in. = 5 FT. Vert. 1 in. = 2 FT. (SEC. 2)

Design Designation

(SECTION 1)

A.D.T. (1972)	= 2650
A.D.T. (1992)	= 5000
D.H.V.	= 750
D.	= 60%
T.	= 12.8%
V.	= 50 M.P.H.

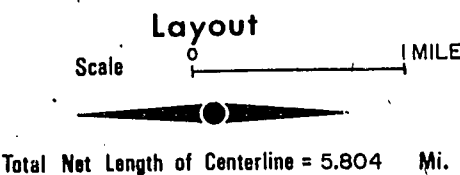
(SECTION 2)

A.D.T. 1972	= 3550
A.D.T. 1992	= 6600
D.H.V.	= 990
D.	= 60%
T.	= 12.8%
V.	= 40 M.P.H.

Conventional Signs

State Line	-----
County Line	-----
Township or Range Line	-----
Section Line	-----
New Right of Way Line	-----
Present Right of Way Line	-----
Wire Fence	-----
Lot Line	-----
Corporate or City Limits	-----
Property Line	-----
Traveled Way or R.E.	-----
Railroads	-----
Base or Survey Line	-----

Culverts in Place	-----
Culverts Required	-----
Drop Inlet	-----
Power Pole	-----
Telephone or Telegraph Pole	-----
Right of Way Markers	-----
Reference Stake for Hubs Only	-----
Marsh	-----
Hedge	-----
Trees	-----
Ground Elevation	-----
Grade Elevation	-----



BEGIN SEC. 2, PROJECT 1184-1-71

STA. 185+65
N. 513,100' (+200')
E. 1,643,300' (+200')
APPROX. 30° E. AND 850' S. OF THE CENTER OF
SEC. 7, T. 47 N., R. 8 W.

END SEC. 1, PROJECT 1184-1-71

STA. 407A+92.6
N. 514,200' (+200')
E. 1,637,600' (+200')
APPROX. 35° S. AND 685' W. OF THE CENTER OF
SEC. 12, T. 47 N., R. 9 W.

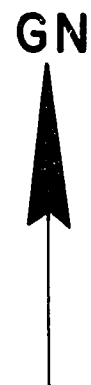
BEGIN SEC. 1, PROJECT 1184-1-71

STA. 126A+98.0
N. 510,400' (+200')
E. 1,611,700' (+200')
APPROX. 1540' S. AND 1805' E. OF THE N.W.
COR. OF SEC. 18, T. 47 N., R. 9 W.

END SEC. 2, PROJECT 1184-1-71

STA. 216+40
N. 512,700' (+200')
E. 1,646,000' (+200')
APPROX. 480° E. AND 1500' N. OF THE S.W. COR. OF
SEC. 8, T. 47 N., R. 8 W.

NOTE: ALL CO-ORDINATES SHOWN ON THE PLAN ARE REFERENCED TO THE WISCONSIN CO-ORDINATE SYSTEM, NORTH ZONE AND ARE SCALED FROM U. S. G. S. TOPOGRAPHY MAPS BRULE AND IRON LAKE, WISCONSIN QUADRANGLE FOR IDENTIFICATION ONLY.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor <u>R.W.A.</u>	District Checker <u>W.T.R.</u>
Designer <u>J.W.M.</u>	C.O. Checker <u>L.L.J.</u>
Correct:	
Date <u>9/20/71</u>	<u>T.R. Kinsley</u> District Engineer
Recommended for Approval:	
Date <u>10/1/71</u>	<u>J.O. Harned</u> Chief Design Engineer
Approved:	
Date <u>10/13/71</u>	<u>H.J. Burmeister</u> State Highway Engineer
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION BUREAU OF PUBLIC ROADS REGION 4 WISCONSIN DIVISION	
Approved:	
Date _____	Division Engineer

STANDARD DETAIL DRAWINGS

CONSTRUCTION BARRICADE. 15C1-1

DESIGN & LAYOUT DETAILS FOR SD. RD. AT
GRADE INTERSECTIONS. 9A1-1

APRON ENDWALLS FOR CULVERT PIPE. 8F1-1

MARKER POSTS. 15A1-1

CATCH BASINS TYPE 3 8A3-1

CATCH BASINS TYPE 5 8A4-1

INLETS TYPE 1 8C1-1

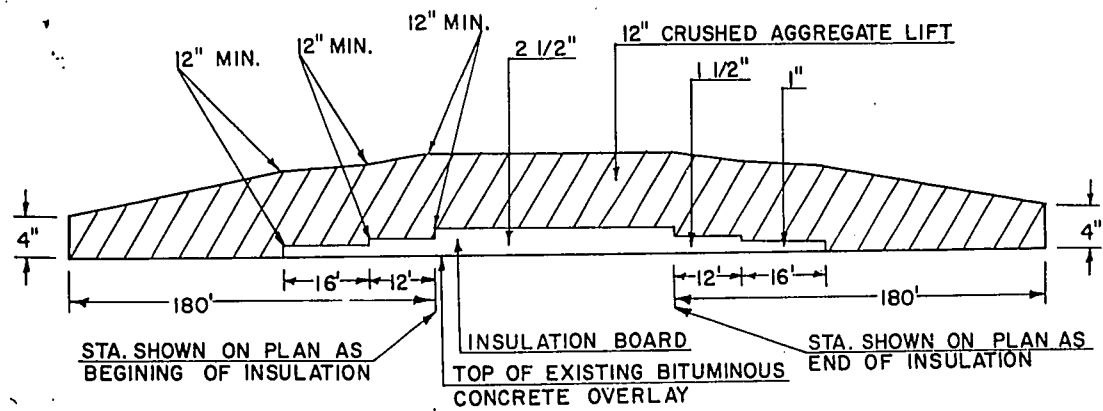
INLETS TYPE 3 8C2-1

MANHOLES TYPE 1 8B1-1

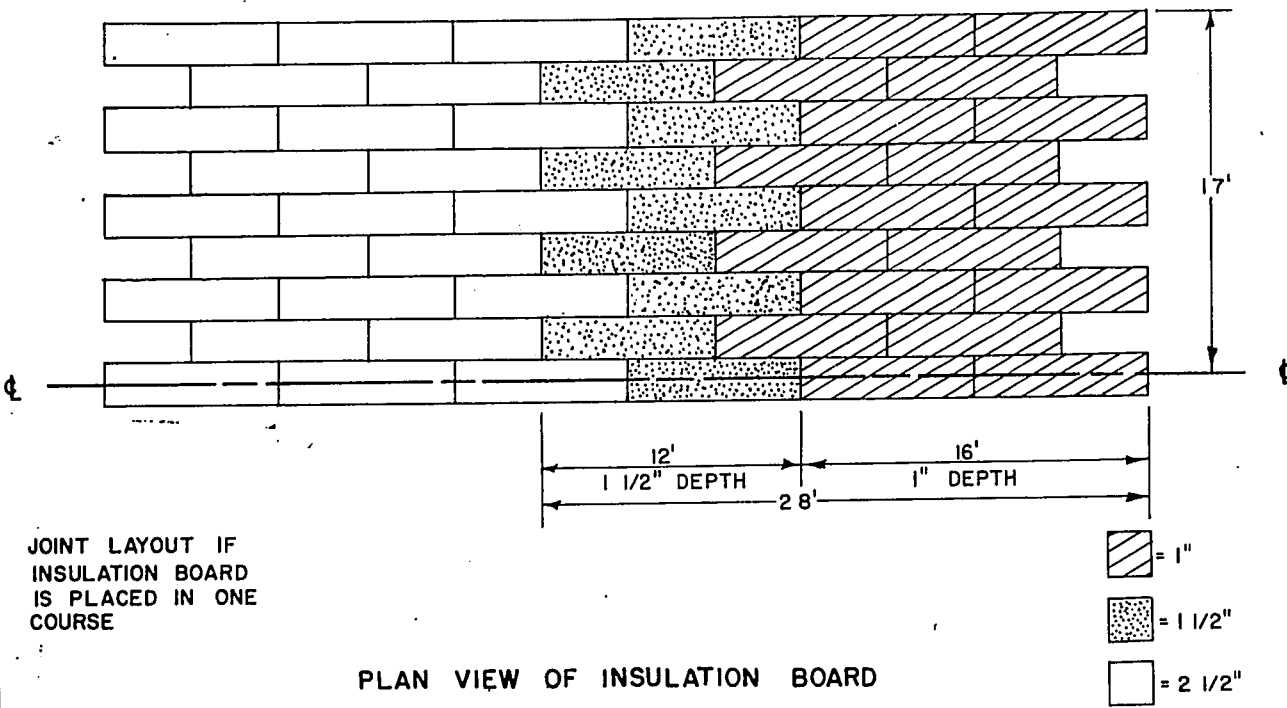
MANHOLES TYPE 3 8B3-1

PAVEMENT DETAILS FOR RAILROAD APPROACH 13B1-1

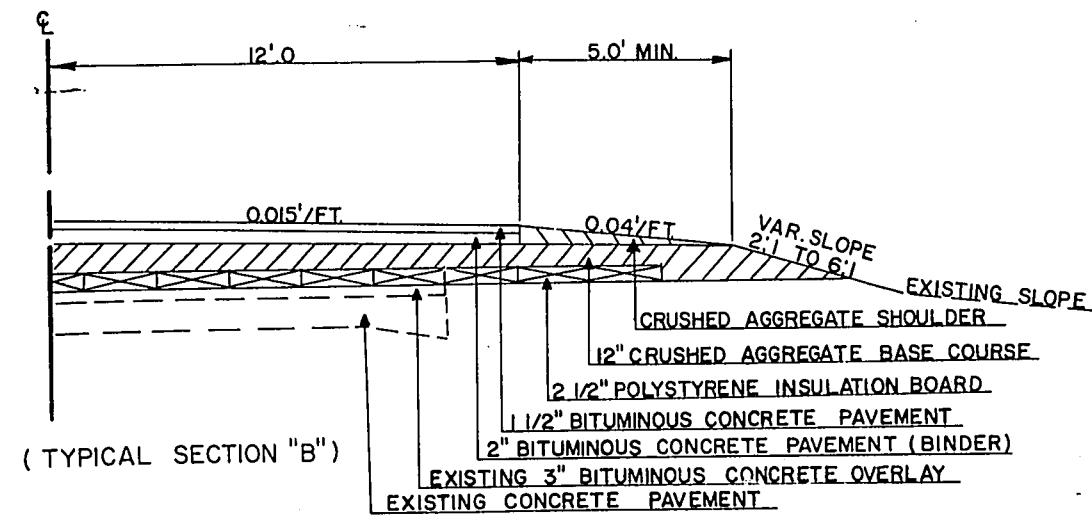
CONCRETE CURB, GUTTER, COMBINATION
CURB & GUTTER. 8D1-1



PROFILE OF INSULATION BOARD PLACEMENT



PLAN VIEW OF INSULATION BOARD



(TYPICAL SECTION "B")

GENERAL NOTES

CONSTRUCTION DETAILS NOT SPECIFICALLY SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND THE STANDARD DETAIL DRAWINGS.

WHEN THE QUANTITY OF THE ITEM OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

BITUMINOUS BASE COURSE WIDENING WILL NOT BE CARRIED THROUGH THE GRAVEL LIFT SECTIONS.

ALL INTERSECTIONS TO BE TYPE "C" AS SHOWN ON STANDARD DETAIL DRAWING.

ALL CULVERT PIPES SHALL BE CLASS III.

MANHOLES TO BE ADJUSTED WILL BE ADJUSTED BY THE LOCAL SANITARY DISTRICT.

ALL UTILITIES WILL BE MOVED BY THEIR OWNERS WHERE REQUIRED.

UTILITY OWNERS ARE:
DAHLBERG POWER & LIGHT COMPANY, INC. SOLON SPRINGS, WISCONSIN.
CHEQUAMEGON TELEPHONE CO-OP, CABLE, WIS.
BAYFIELD ELECTRIC CO-OP, IRON RIVER, WIS.
LAKE SUPERIOR DISTRICT POWER CO., ASHLAND, WISCONSIN.

SALVAGED TOPSOIL OR TOPSOIL SHALL BE PLACED TO AN APPROXIMATE THICKNESS OF 4 INCHES AT THE TIME OF PLACEMENT.

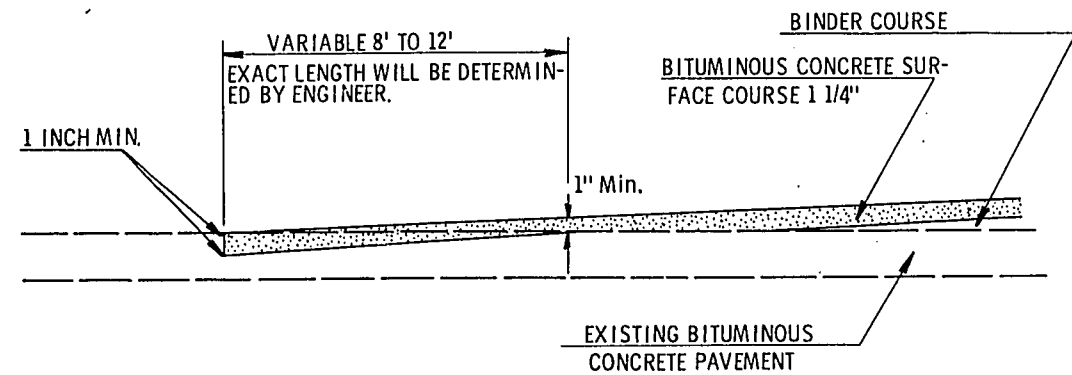
THE EXACT LOCATION AND LIMITS FOR NEW DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL RADII SHOWN ARE TO THE FRONT FACE OF CURB.

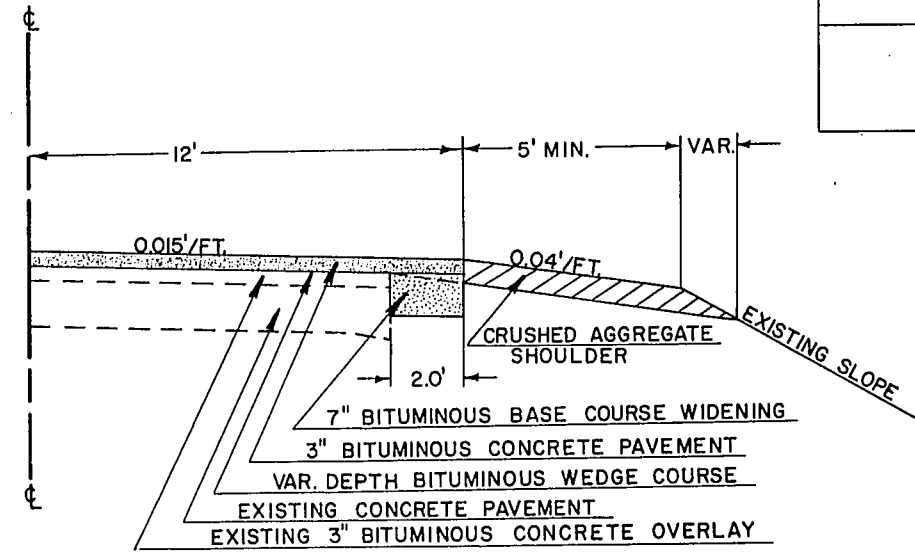
SUITABLE MATERIAL REMOVED WHILE EXCAVATING FOR BITUMINOUS BASE COURSE WIDENING MAY BE WASTED ON SHOULDERS.

CONCRETE SIDEWALK REMOVED BY THE CONTRACTOR FOR CONVENIENCE IN PLACING CURB AND GUTTER AT INTERSECTIONS SHALL BE REPLACED AND THE COST OF THIS REPLACEMENT IS INCIDENTAL TO THE ITEM OF CURB AND GUTTER TYPE "D" 30 INCH.

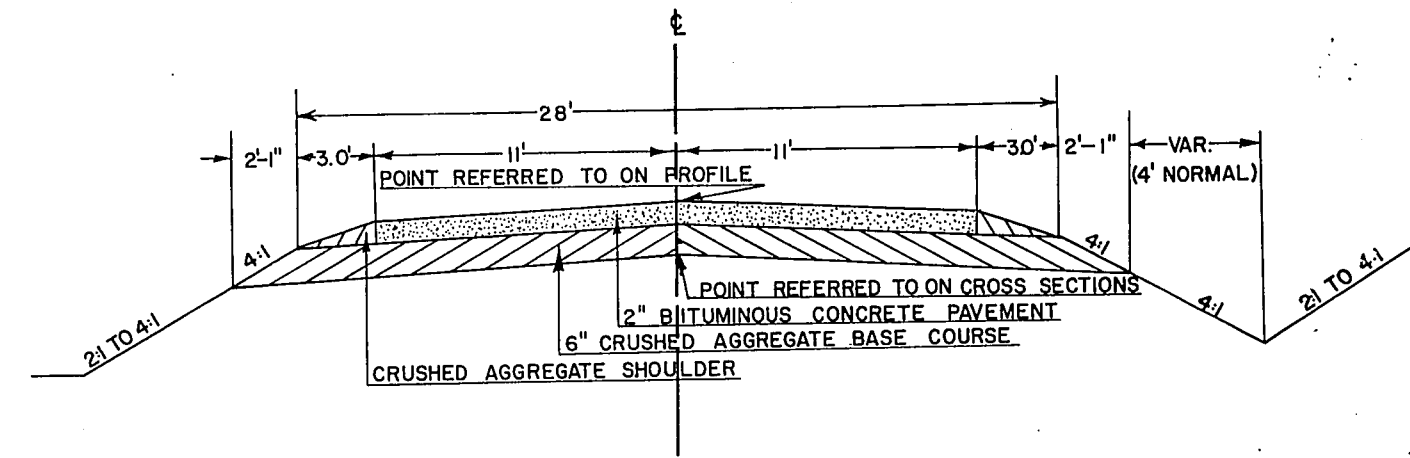
SIDEWALK AND STEPS FOR SIDEWALKS WHERE REQUIRED WILL BE CONSTRUCTED BY THE TOWN OF IRON RIVER.



DETAIL OF BUTT JOINT
USE: @ STA. 126A+98.0
407A+92.6
216+40



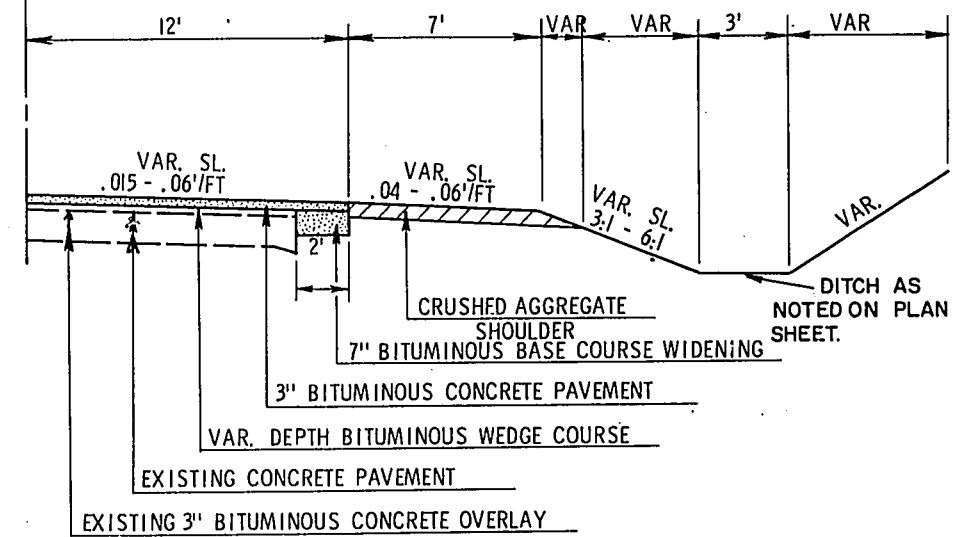
TYPICAL HALF SECTION FOR RESURFACING
(TYPICAL SECTION "A")



TYPICAL SECTION FOR SIDE ROADS

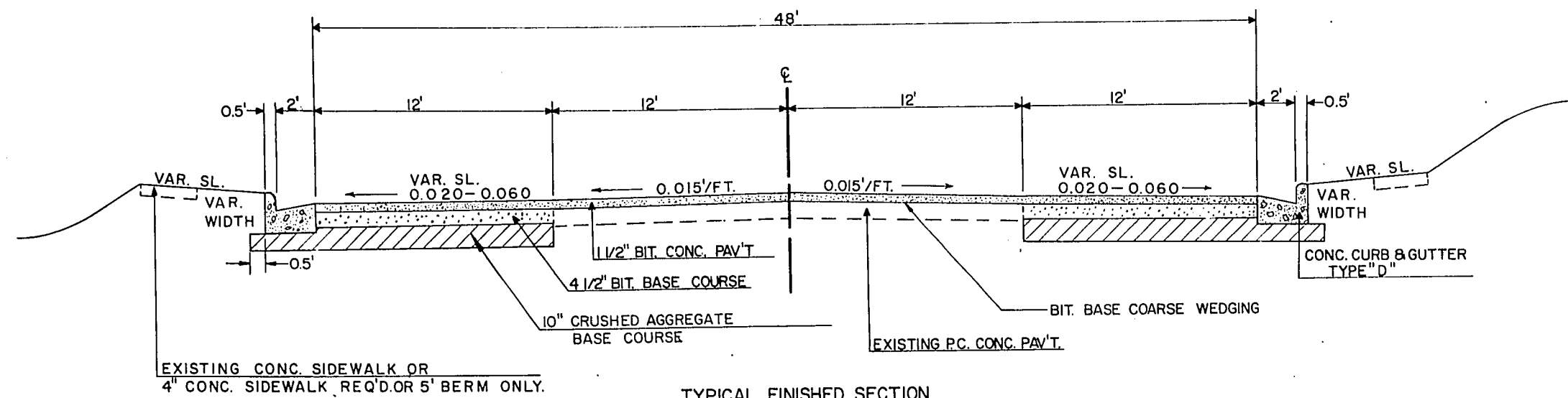
USE AT STATIONS
231A + 05 LT. 360A + 20 RT. 257A + 50 LT.
321A + 60 LT. 375A + 10 RT. 277A + 75 LT.

USE BITUMINOUS CONCRETE PAVEMENT ON SIDE ROAD AT STA. 375A + 10 ONLY.



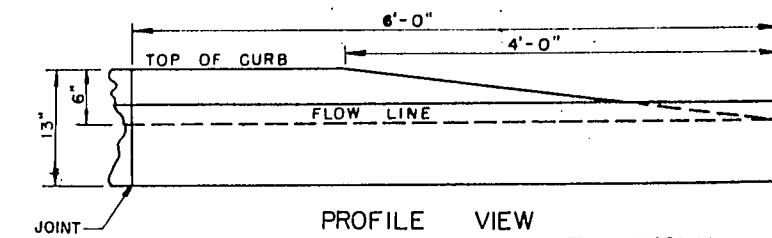
TYPICAL SECTION "C"

STA 280A + 14 - 285A + 00 RT
STA 370A + 05 - 374A + 80 RT



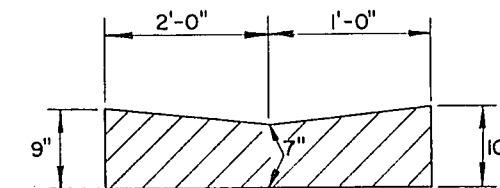
TYPICAL FINISHED SECTION

STA. 185+65 - 187+50

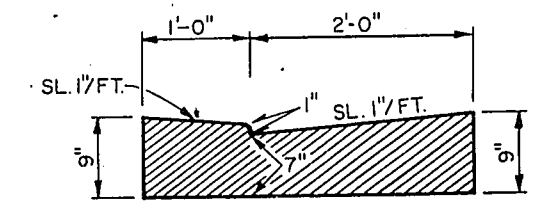


PROFILE VIEW
CURB END TREATMENT DETAIL

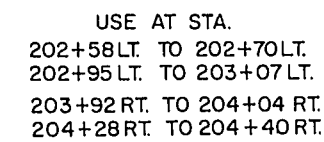
USE AT STA. 185+94.70 LT. & RT.
215+87.25 LT. & RT.



TRACK	APPROACH	LAYBACK
	DETAIL	



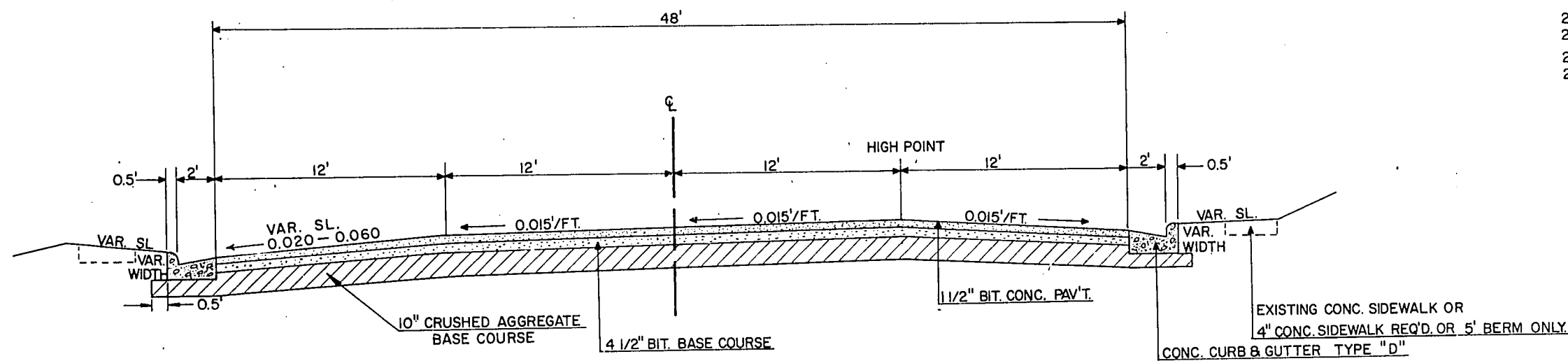
SECTION A-A



PLAN

CURB & GUTTER ENTRANCE DETAIL

SECTION B-B NORMAL CURB & GUTTER SECTION
PRIVATE ENTRANCES - 24' MAXIMUM
BUSINESS ENTRANCES - 40' MAXIMUM

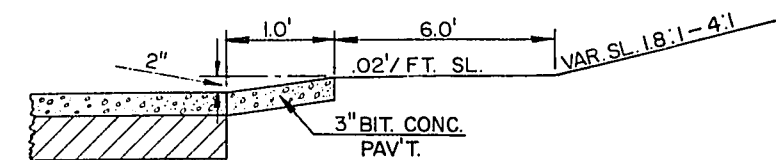


TYPICAL FINISHED SECTION

STA. 187+50 - 198+50

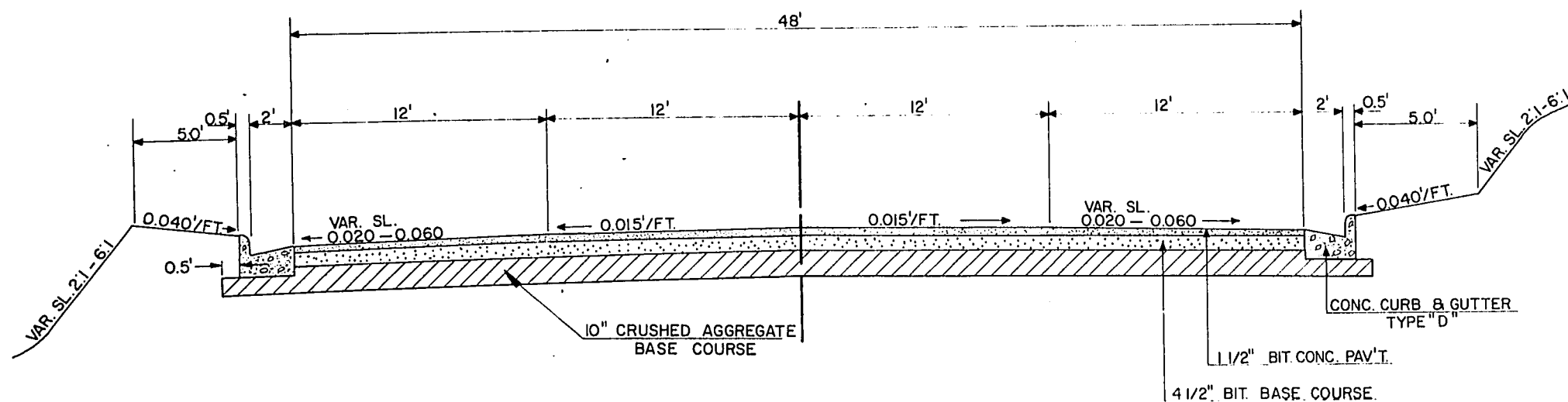
FROM STA. 211+75 TO 214+00 LT. DISTURBED AREA IN BACK OF
NEW CURB SHALL BE SURFACED WITH 2 INCH DEPTH BITUMINOUS
CONCRETE SURFACE COURSE.

FROM STA. 190+40 TO 191+70 RT. REMOVE 2' OF THE EXISTING SIDEWALK. SOD AREA BETWEEN CURB AND SIDEWALK.



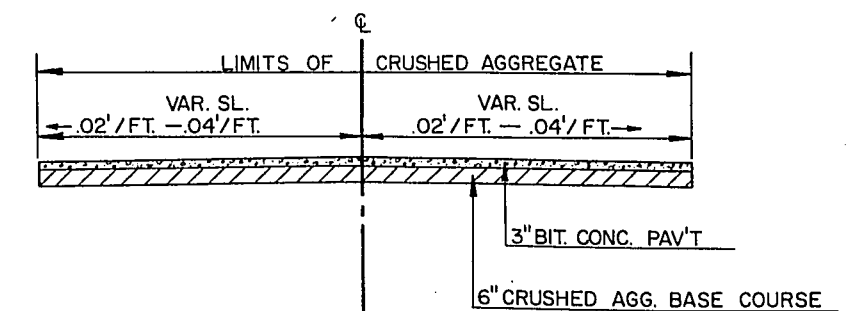
TYPICAL GUTTER & SWK. HALF SECTION

STA. 0+52 TO 2+50 LT. AND RT. (GEORGE ST. STA. 193+48.75 RT.)



TYPICAL FINISHED SECTION

STA. 198 + 50 — 215 + 01



TYPICAL FINISHED SECTION
SIDE STREETS

USE FROM END OF CURB RADIUS. TAPER
WIDTH TO MEET EXISTING PAVEMENT.

ESTIMATE OF QUANTITIES

CONTRACT NO. 1

GRADE BASE & BITUMINOUS PAVEMENT

PROJECT ID 1184-1-71	SHEET NUMBER	"TA" SHEET'S
FEDERAL PROJECT DESIGNATION	3	48

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE WISCONSIN DIVISION OF HIGHWAYS — EDITION OF 1969 AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS

SEC NO	STATION TO STATION		NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	REMOVING PAVEMENT	REMOVING CURB	REMOVING CONCRETE SIDEWALK	REMOVING SURFACE DRAINS	REMOVING CATCH BASINS	REMOVING INLETS	UNCLASSIFIED EXCAVATION	PREPARATION OF FOUNDATION FOR BITUMINOUS PAVING	FINISHING ROADWAY	CRUSHED AGGREGATE BASE COURSE	BITUMINOUS BASE COURSE	BITUMINOUS MATERIAL FOR BASE COURSE	BASE PATCHING	BITUMINOUS CONCRETE PAVEMENT	BITUMINOUS MATERIAL FOR SURFACE COURSE	CULVERT PIPE CLASS III		APRON ENDWALLS FOR CULVERT PIPE		REINFORCED CONCRETE CULVERT PIPE CLASS III 24 INCH	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE			CONCRETE CURB AND GUTTER 30-INCH TYPE D	
																					18 INCH	24 INCH	18 INCH	24 INCH		18 INCH	24 INCH	30 INCH		
																					ITEM NO	LIN. FT	IN. DIA.	IN. DIA.		SQ. YD.	L.F.	SQ. YD.		
		UNIT																												
1	126A+98 - 407A+92.6		27606.2						2			660	1	0.1	21.270			20	16.494	989		32		2	64		4	4		
2	185+65 - 216+40		3041.5	66	66	6430	342	309		2	1	10708		0.9	10.900	4500	225		1.811	109	30		1		4	2	2		5791	
																														</

SEC	REINFORCED CONCRETE PIPE CLASS III STORM SEWER			CATCH BASINS		MANHOLES		INLETS		CATCH BASIN COVERS		MANHOLE COVERS	INLET COVERS			MARKER POSTS	MAINTENANCE AND REPAIR OF HAUL ROADS	TOPSOIL	SALVAGED TOPSOIL	FERTILIZER	SEEDING	SODDING	FIELD OFFICE TYPE B	FIELD LABORATORY	POLYSTYRENE INSULATION BOARD	BITUMINOUS BASE COURSE WIDENING	BITUMINOUS MATERIAL FOR BASE COURSE WIDENING	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE 12 INCH	OBLITERATING OLD ROAD		
	12-INCH	15-INCH	18-INCH	TYPE 3	TYPE 5	TYPE 1	TYPE 3	TYPE 1	TYPE 3	TYPE A	TYPE H		TYPE J	TYPE A	TYPE B																TYPE H
	60825	60826	60827	61103	61105	61111	61113	61121	61123	61131	61137		61151	61161	61162																61167
NO	L.F.	L.F.	L.F.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	L.S.	SQ. YD.	SQ. YD.	CWT.	SQ. YD.	SQ. YD.	L.S.	L.S.	MBM	TON	TON	EACH	STA.		
1																10	1	485	1945	1	3000		1	1	66.5	4911	245		15		
2	734	2023	310	12	2	3	7	8	5	12	2	10	7	1	5			1160	4640	3	6600	2196						2			

[illegible]

DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

REMOVING CURB			
SEC. NO.	STATION	LOCATION	LIN. FT.
2	189+65	LT.	19
	189+65	RT.	43
	190+22	RT.	23
	190+25	LT.	20
	190+23 to 190+50	RT.	27
PROJECT TOTAL			342

REMOVING CONCRETE SIDEWALK			
SEC. NO.	STATION TO STATION	LOCATION	SQ. YDS.
2	189+55 - 189+65	RT.	10.7
	189+55 - 189+65	LT.	11.7
	190+24 - 190+36	RT.	16.0
	190+25 - 190+35	LT.	10.1
	190+36 - 191+65	RT.	28.0
	191+83.5 - 193+23	RT.	77.7
	193+17 - 193+23	RT.	75.3
	193+68 - 193+81	RT.	8.9
	193+75 - 193+91		68.4
	196+64 - 196+69		2.2
PROJECT TOTAL			309

REMOVING CATCH BASINS			
SEC. NO.	STATION	LOCATION	EACH
2	189+66.6	30.6 RT.	1
	190+22.3	29.2 RT.	1
TOTAL			2

REMOVING INLETS			
SEC. NO.	STATION	LOCATION	EACH
2	186+87	28' RT.	1
TOTAL			1

REMOVING PAVEMENT		
SEC. NO.	STATION TO STATION	SY.
2	187+50 TO 188+34	224
	188+34 TO 203+40	3349
	203+56 TO 216+40	2857
	PROJECT TOTAL	6430

REMOVING SURFACE DRAINS			
SEC. NO.	STATION	LOCATION	EACH
1	214+10	X X	2
PROJECT TOTAL			2

CLEARING AND GRUBBING				
SEC. NO.	STATION	LOCATION	CLEARING I.D.	GRUBBING I.D.
2	193+27	77' RT.	14"	14"
	193+27	116' RT.	10"	10"
	193+28	127' RT.	18"	18"
	193+71	60' RT.	16"	16"
	193+72	91' RT.	8"	8"
	TOTAL		66	66

CULVERT PIPE							
SEC. NO.	STATION	LOCATION	DIA. INCHES	TYPE	CLASS	LENGTH	AEW
1	218A+03	€	24	R.C.C.P.	III	64	2
	257A+50	S.R. LT.	24	C.P.	III	32	2
2	203+99	EXT. LT.	24	R.C.C.P.	III	4	2
	195+30	270' LT.	18	C.P.	III	30	1

REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE							
SEC. NO.	STATION	LOCATION	DIAMETER				
1	151A+41.6	LT. & RT.	12"	18"	24"	30"	
	163A+75.6	LT. & RT.					2
	230A+64.4	LT. & RT.					2
	SEC. 1 TOTAL				2	4	
2	186+0	RT.	1				
	195+30	270' LT.	1				
	200+50	RT.		1			
	204+50	LT.			1		
	SEC. 2 TOTAL		2	2			
PROJECT TOTAL			2	2	2	4	

POLYSTYRENE INSULATION BOARD		
SEC. NO.	STATION TO STATION	M.B.M.
1	170A+00 - 172A+00	19.3
	214A+70 - 216A+70	19.3
	225A+00 - 228A+00	27.9
PROJECT TOTAL		66.5

BASE PATCHING		
SEC. NO.	LOCATION	SQ. YDS.
1	218A+03	20
PROJECT TOTAL		20
NOTE: IN AREAS OF PATCHING, A 6" CRUSHED AGGREGATE BASE COURSE WILL BE PLACED UNDER THE BASE PATCHING.		

MARKER POSTS				
SEC. NO.	STATION TO STATION	LOCATION	LT.	RT.
1	279A+64-280A+64		X	X
	370A+00-373A+00			7
PROJECT TOTAL				10

UNCLASSIFIED EXCAVATION				
SEC. NO.	STATION TO STATION	DESCRIPTION	LOCATION	CU. YD.
1	231A+05	CONST. S.R. APPROACH	LT.	100
	257A+50	RECONST. S.R.	LT.	50
	277A+75	RECONST. S.R.	LT.	75
	280A+14 - 285A+00	DITCH CLEANING	RT.	340
	370A+05 - 374A+80	DITCH CLEANING	RT.	20
	375A+10	RECONST. S.R. APPROACH	RT.	75
SECTION 1 TOTAL				660
2	185+65 - 216+40			10708
	SECTION 2 TOTAL			10708
PROJECT TOTAL				11368
NOTE: 10,000 CU. YDS. UNCLASSIFIED EXCAVATION FROM SECTION 2 ARE TO BE WASTED; SEE SPECIAL PROVISIONS.				

INLETS			
SEC. NO.	LOCATION	TYPE	COVER
2	186+18.2 - 46' RT.	1	1
	186+61.2 - 46' RT.		
	186+90.7 - 25.5' RT.		
	189+34.5 - 25.5' RT.		
	189+37.5 - 25.5' LT.		
	189+62 - 38' RT.		
	190+21 - 46' RT.		
	193+31.8 - 46' RT.		
	193+65.8 - 46' RT.		
	196+77 - 46' RT.		
	197+12 - 46' RT.		
	211+33 - 46' LT.		
	211+36 - 46' LT.		
	PROJECT TOTAL	8	5

CATCH BASINS			
SEC. NO.	LOCATION	TYPE	COVER
2	190+50 - 25.5' RT.	3	5
	190+54.3 - 25.5' LT.		
	193+01.8 - 25.5' LT.		
	193+01.8 - 25.5' RT.		
	196+47.8 - 25.5' RT.		
	196+47.8 - 25.5' LT.		
	200+00 - 25.5' LT.		
	200+00 - 25.5' RT.		
	204+50 - 25.5' LT.		
	205+00 - 25.5' RT.		
	212+07 - 25.5' LT.		
	212+07 - 25.5' RT.		
	212+07 - 25.5' LT.		
	214+00 - 25.5' LT.		
	214+00 - 25.5' RT.		
	PROJECT TOTAL	12	2

MANHOLES			
SEC. NO.	LOCATION	TYPE	COVER
2	190+53 - 18' LT.	1	3
	193+01.8 - 18' LT.		
	195+30 - 18' LT.		
	196+47.8 - 18' LT.		
	200+00 - 18' LT.		
	204+50 - 18' LT.		
	208+00 - 18' LT.		
	212+07 - 18' LT.		
	214+00 - 18' LT.		
	2+70 - 4' LT.		
	PROJECT TOTAL	3	7

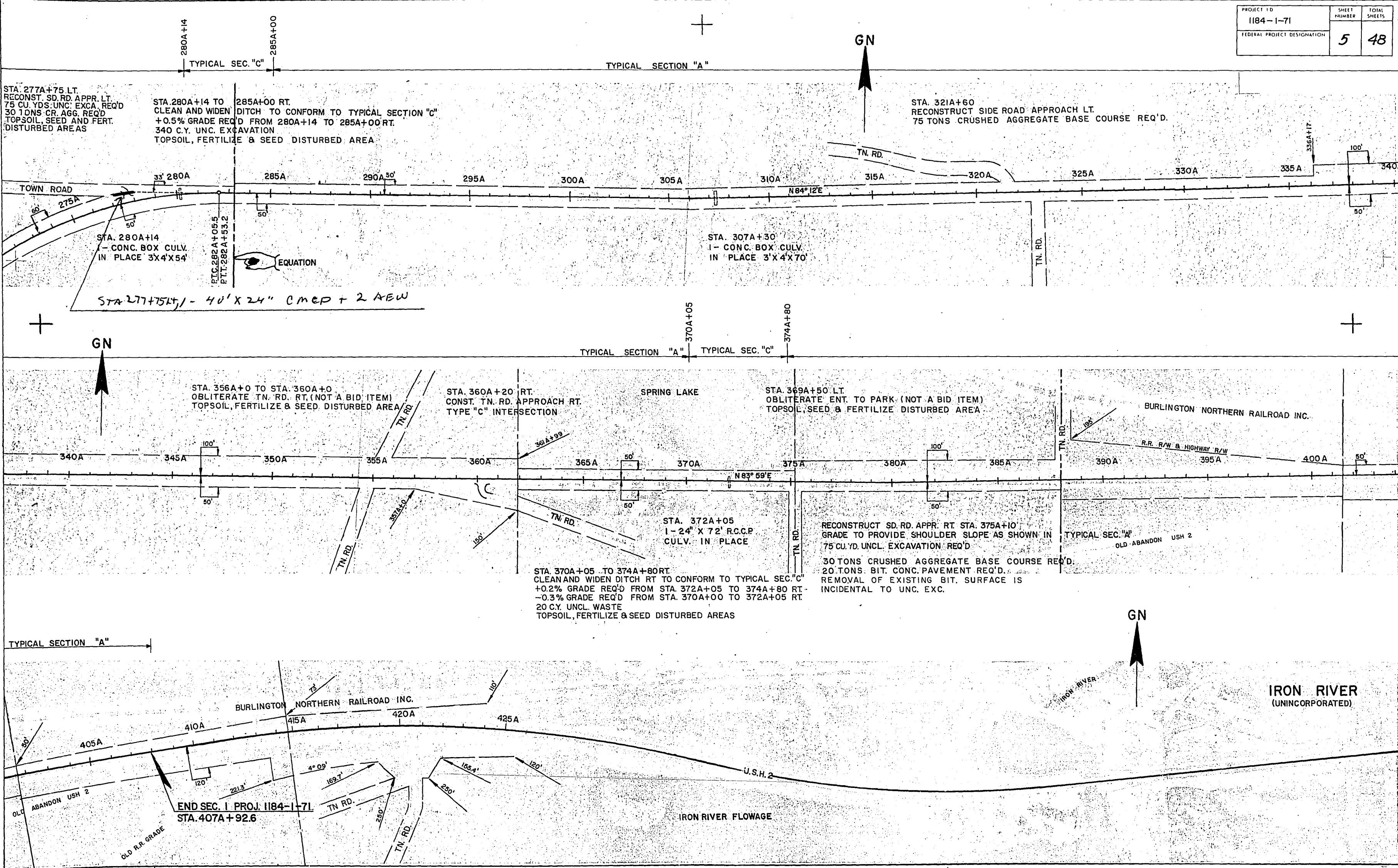
BITUMINOUS BASE COURSE			
SEC. NO.	STATION TO STATION	LOCATION	TONS
2	182+95 - 185+98	TAPER RT. & LT.	90
	185+98 - 187+50	WIDENING LT. & RT.	106
	187+50 - 203+31.5	ROADWAY	2085
	203+65 - 216+40	ROADWAY	1683
	216+90 - 219+00	TAPER LT. & RT.	90
	S.R.S. UNDIST.		446
	PROJECT TOTAL		4500

CRUSHED AGGREGATE BASE COURSE			
SEC. NO.	STATION TO STATION	LOCATION	TONS
1	126A+98 - 407A+92.6	SHLD. LT. & RT.	16803
	170A+00 - 172A+00	GRAVEL LIFT SECTION	1320
	214A+00 - 216A+70	GRAVEL LIFT SECTION	1320
	225A+00 - 228A+00	GRAVEL LIFT SECTION	1612
	SIDE ROADS (UNDIST.)		215
	SECTION 1 TOTAL		21270
2	185+95 - 187+50	WIDENING LT. & RT.	223
	187+50 - 203+31.5	ROADWAY	4950
	203+65 - 216+40	ROADWAY	3994
	215+93 - 217+43	TAPER LT.	65
	215+93 - 218+93	TAPER RT.	130
	SIDE ROADS	(UNDIST.)	1538
SECTION 2 TOTAL			10907
PROJECT TOTAL			32170

REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER									
SEC. NO.	STATION TO STATION	€	LT.	RT.	12"	15"	18"	PROJECT TOTAL	
2	186+05 - 186+18.2			X			20'		
	186+18.2 - 186+61.2			X			40'		
	186+61.2 - 186+90.7			X			29'		
	189+37.5 - 189+62	X					25'		
	189+62 - 190+21			X			39'		
	190+21 - 190+50			X			29'		
	190+50 - 190+53	X					3'		
	190+53 - 190+54.3			X			1'		
	190+54.3 - 193+15			X			256'		
	193+01.8 - 193+01.8	X					39'		
	193+01.8 - 193+01.8			X			3'		
	193+01.8 - 193+31.8			X			32'		
	193+31.8 - 193+65.8			X			31'		
	193+01.8 - 195+30			X			222'		
	195+30 - 2+70			X			111'		
	195+30 - 196+47.8			X			348'		
	196+47.8 - 200+00	X					40'		
	196+47.8 - 196+77			X			35'		
	196+77 - 197+12			X			34'		
	200+00	X					40'		
	200+00 - 200+50			X			5'		
	200+50 - 204+20			X			48'		
	204+20 - 204+49			X			4'		
	204+49 - 204+50			X			1'		
	204+50 - 205+00	X					60'		
	204+50 - 203+00			X			344'		
	208+00 - 212+07			X			401'		
	211+33 - 212+07			X			72'		
	211+36 - 212+07	X		X			72'		
	212+07 - 212+07			X			40'		
	212+07 - 212+07	X		X			4'		
	212+07 - 214+00			X			5'		
	214+00 - 214+00	X					41'		
	214+00 - 214+00	X							
	2+62 - 2+78			X			8'		
PROJECT TOTAL							734'	2023'	310'

<u>BITUMINOUS CONCRETE PAVEMENT</u>		
<u>SEC. NO.</u>	<u>LOCATION</u>	<u>TONS</u>
1	STA. 126A+98.0 -- 407A+92.6	12238
	WEDGING (UNDIST.)	3816
	SIDE ROADS (UNDIST.)	440
	SEC. 1 TOTAL	16494
2	182+95 - 185+98 TAPER LT.&RT.	30
	185+95 - 203+31.5 RDWY	764
	203+65 - 216+40 RDWY	561
	215+93 - 218+93 TAPER LT.&RT.	30
	SIDE ROADS (UNDIST.)	426
	SEC. 2 TOTAL	1811
	PROJECT TOTAL	18305

<u>CONCRETE CURB & GUTTER. 30-INCH. TYPE D</u>				
<u>SEC. NO.</u>	<u>SECTION TO STATION</u>	<u>LT.</u>	<u>RT.</u>	<u>LIN. FT.</u>
2	185+96 - 186+20		X	39.3
	185+96 - 186+20	X		39.3
	186+62 - 189+65		X	354.6
	186+64 - 189+67	X		331.6
	190+23 - 193+29		X	334.6
	190+26 - 193+31	X		333.6
	193+66 - 196+73		X	335.6
	193+68 - 196+73	X		333.6
	197+12 - 202+77	X		579.3
	197+12 - 204+04		X	706.3
	202+99 - 211+33	X		852.3
	204+22 - 211+36		X	723.3
	211+77 - 215+27	X		374.6
	211+80 - 215+26		X	374.4
215+63 - 215+88	X		35.3	
215+63 - 215+88		X	39.3	
PROJECT TOTAL				5791.0



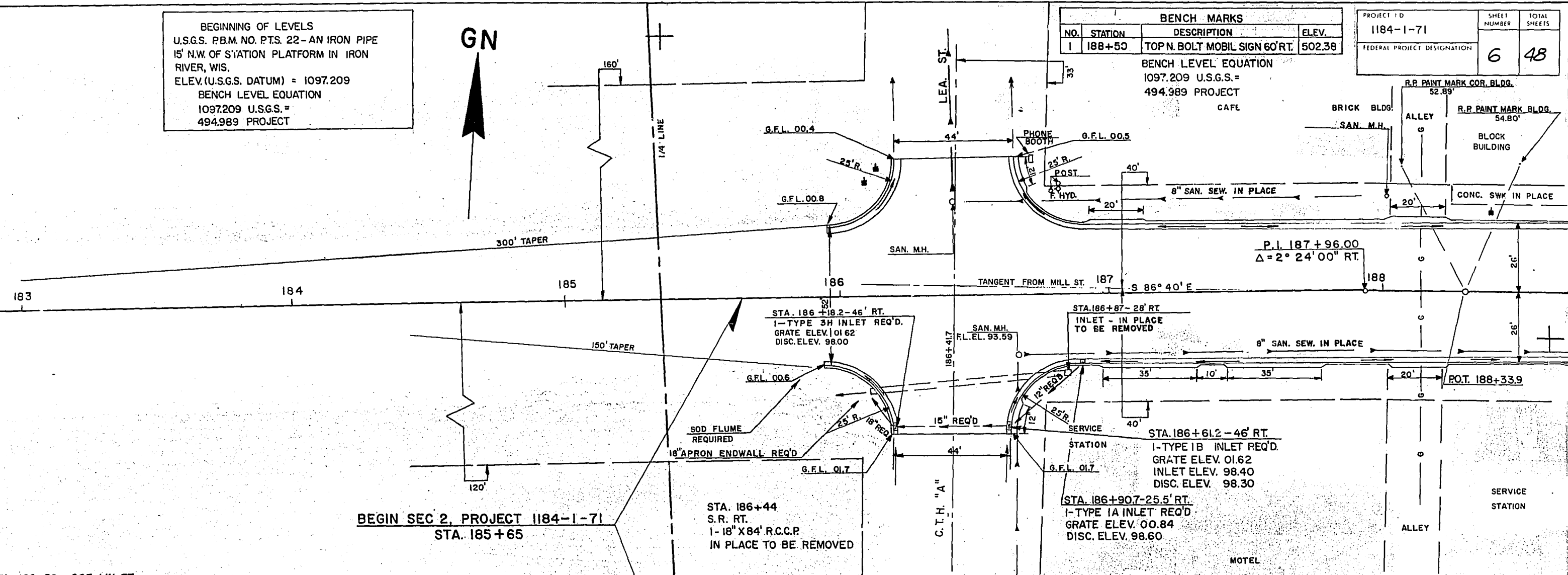
BEGINNING OF LEVELS
 U.S.G.S. P.B.M. NO. P.T.S. 22 - AN IRON PIPE
 15' N.W. OF STATION PLATFORM IN IRON
 RIVER, WIS.
 ELEV.(U.S.G.S. DATUM) = 1097.209
 BENCH LEVEL EQUATION
 1097.209 U.S.G.S. =
 494.989 PROJECT

GN

BENCH MARKS		
NO.	STATION	DESCRIPTION
1	188+50	TOP N. BOLT MOBIL SIGN 60' RT.
		ELEV. 502.38

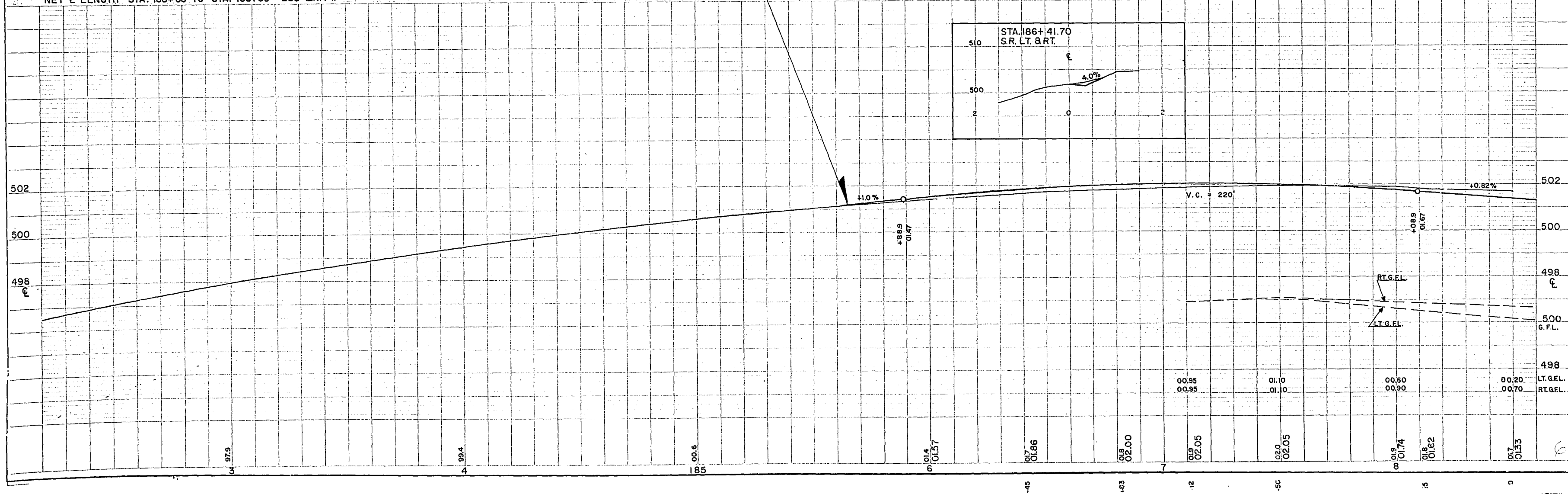
BENCH LEVEL EQUATION
 1097.209 U.S.G.S. =
 494.989 PROJECT

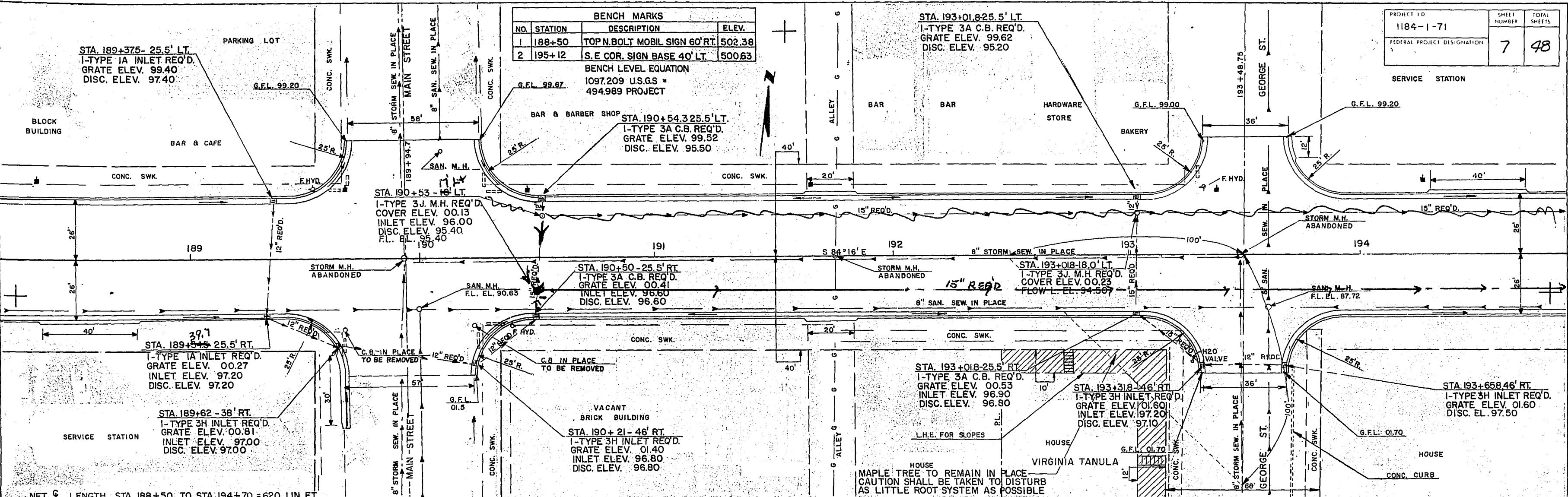
PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
1184-1-71	6	48
FEDERAL PROJECT DESIGNATION		



BEGIN SEC 2, PROJECT 1184-1-71
 STA. 185+65

NET LENGTH STA. 185+65 TO STA. 188+50 = 285 LIN. FT.

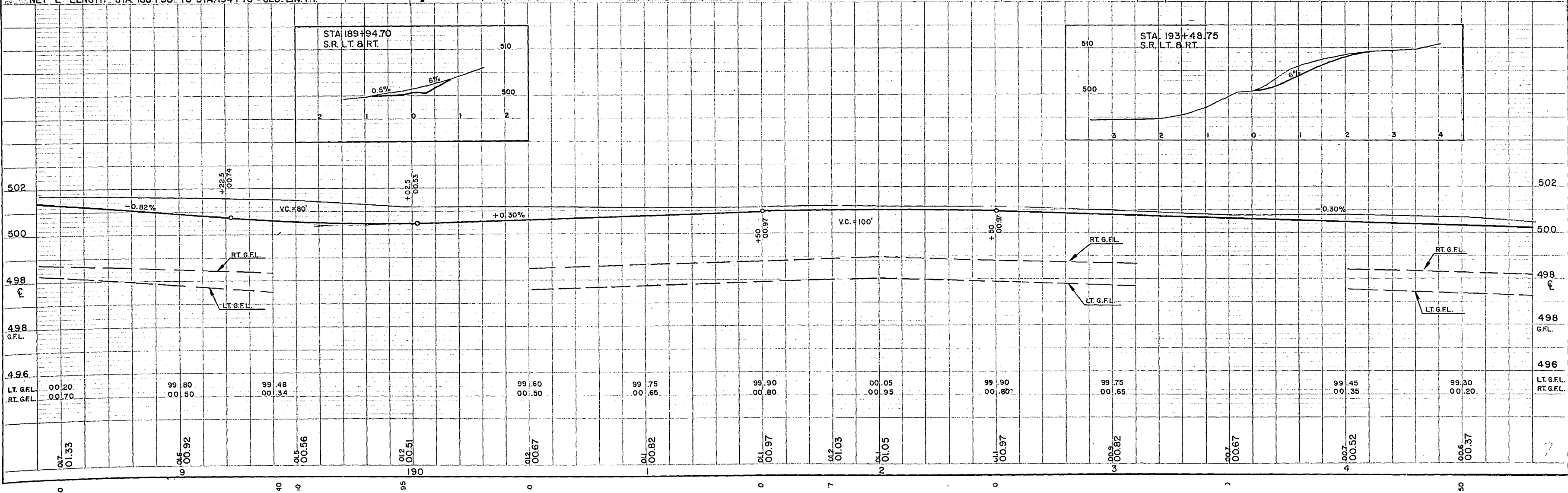




BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
1	188+50	TOP N.BOLT MOBIL SIGN 60' RT.	502.38
2	195+12	S.E. COR. SIGN BASE 40' LT.	500.63

BENCH LEVEL EQUATION
1097.209 U.S.G.S =
494.989 PROJECT

PROJECT ID 1184-1-71	SHEET NUMBER 7	TOTAL SHEETS 48
FEDERAL PROJECT DESIGNATION		
SERVICE STATION		



BALL PARK

GN

STORM SEWER DISC.
DISC. ELEV. 93.6

HOUSE

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
3	206+10	PAINT MARK W. END P. ISL. 45' LT.	499.95
BENCH LEVEL EQUATION			
1097.209 U.S.G.S =			
494.989 PROJECT			

PROJECT ID	1184-1-71	SHEET NUMBER	9	TOTAL SHEETS	48
FEDERAL PROJECT DESIGNATION					

GROCERY STORE & LIVING QUARTERS

GAS PUMPS

PHONE BOOTH

STA. 204+50-25.5' LT.
1-TYPE 5H C.B. REQ'D
GRATE ELEV. 98.47
DISC. ELEV. 95.50

18" APRON ENDWALL REQ'D

SAN. M.H.
F.L. EL. 91.87

STA. 204+50-18' LT.
1-TYPE 3J M.H. REQ'D
COVER ELEV. 99.08
INLET ELEV. 95.60
DISC. ELEV. 95.60
FLOW LINE EL. 94.08

STA. 205+00-25.5' RT.
1-TYPE 5H C.B. REQ'D
GRATE ELEV. 98.69
DISC. ELEV. 95.36
1-TYPE 3 INLET

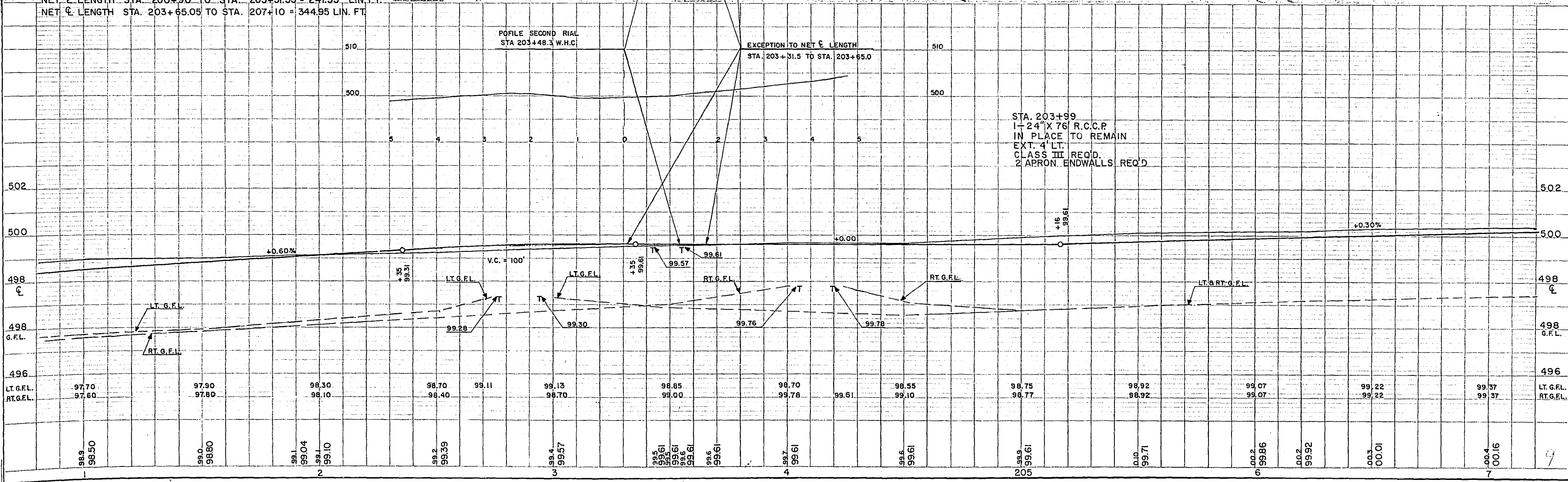
DRIVE INN

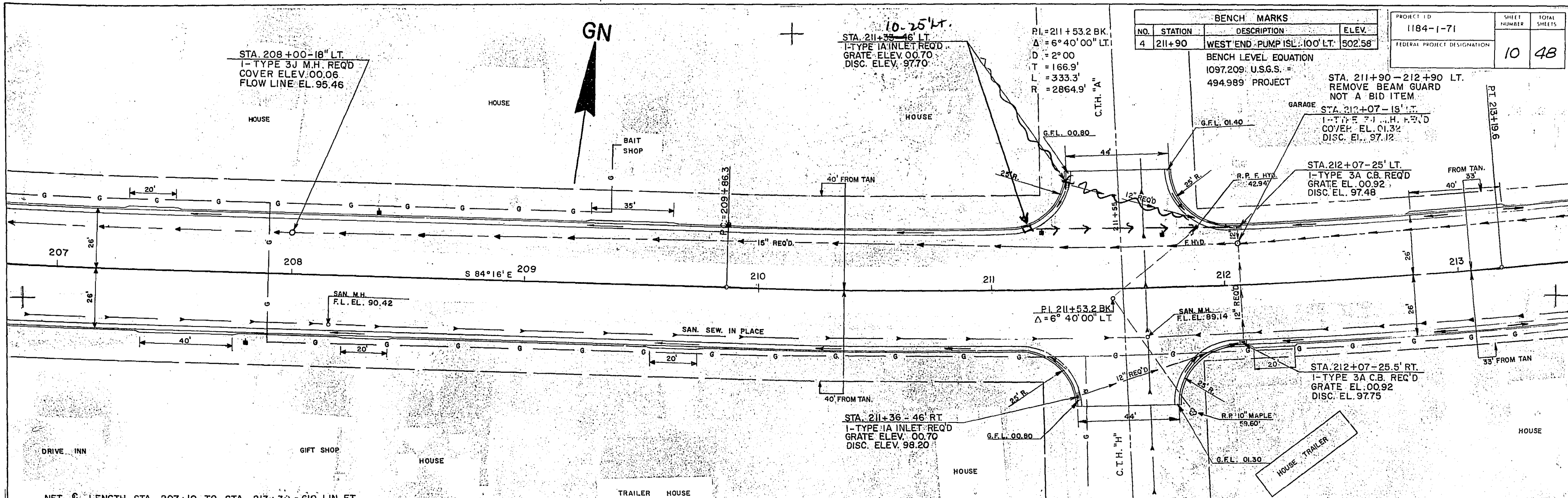
NET C LENGTH STA. 200+90 TO STA. 203+31.55 = 241.55 LIN. FT.
NET C LENGTH STA. 203+65.05 TO STA. 207+10 = 344.95 LIN. FT.

PROFILE SECOND RIAL
STA 203+48.3 W.H.C

EXCEPTION TO NET C LENGTH
STA. 203+31.5 TO STA. 203+65.0

STA. 203+99
1-24" X 76" R.C.C.P.
IN PLACE TO REMAIN
EXT. 4' LT.
CLASS III REQ'D.
2 APRON ENDWALLS REQ'D



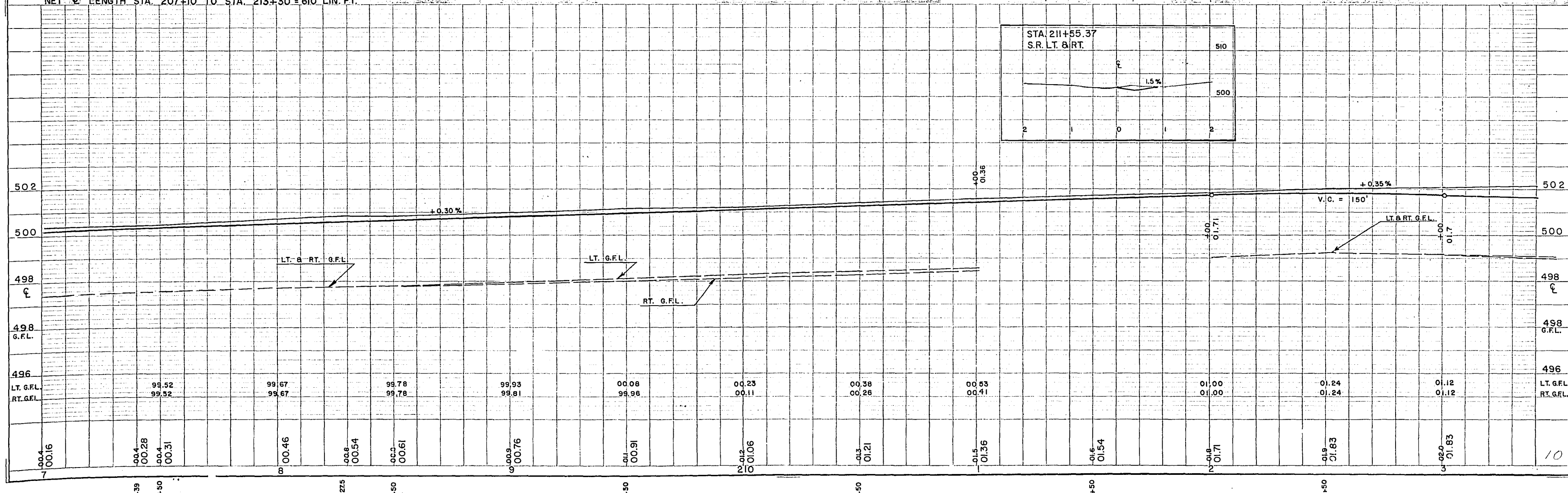
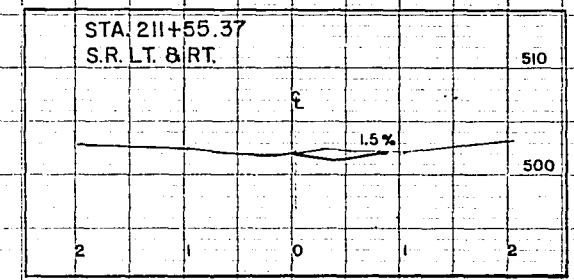


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
4	211+90	WEST END PUMP ISL. 100' LT.	502.58

BENCH LEVEL EQUATION
1097.209 U.S.G.S. =
494.989' PROJECT

PROJECT ID 1184-1-71	SHEET NUMBER 10	TOTAL SHEETS 48
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FEDERAL PROJECT DESIGNATION



STA. 213+20-213+45 LT.
REMOVE BEAM GUARD
NOT A BID ITEM

STA. 214+05-214+45 LT.
REMOVE BEAM GUARD
NOT A BID ITEM

STA. 214+0-25.5 LT.
1-TYPE 3A C.B. REQ'D
GRATE ELEV. 00.56
DISC. ELEV. 98.06

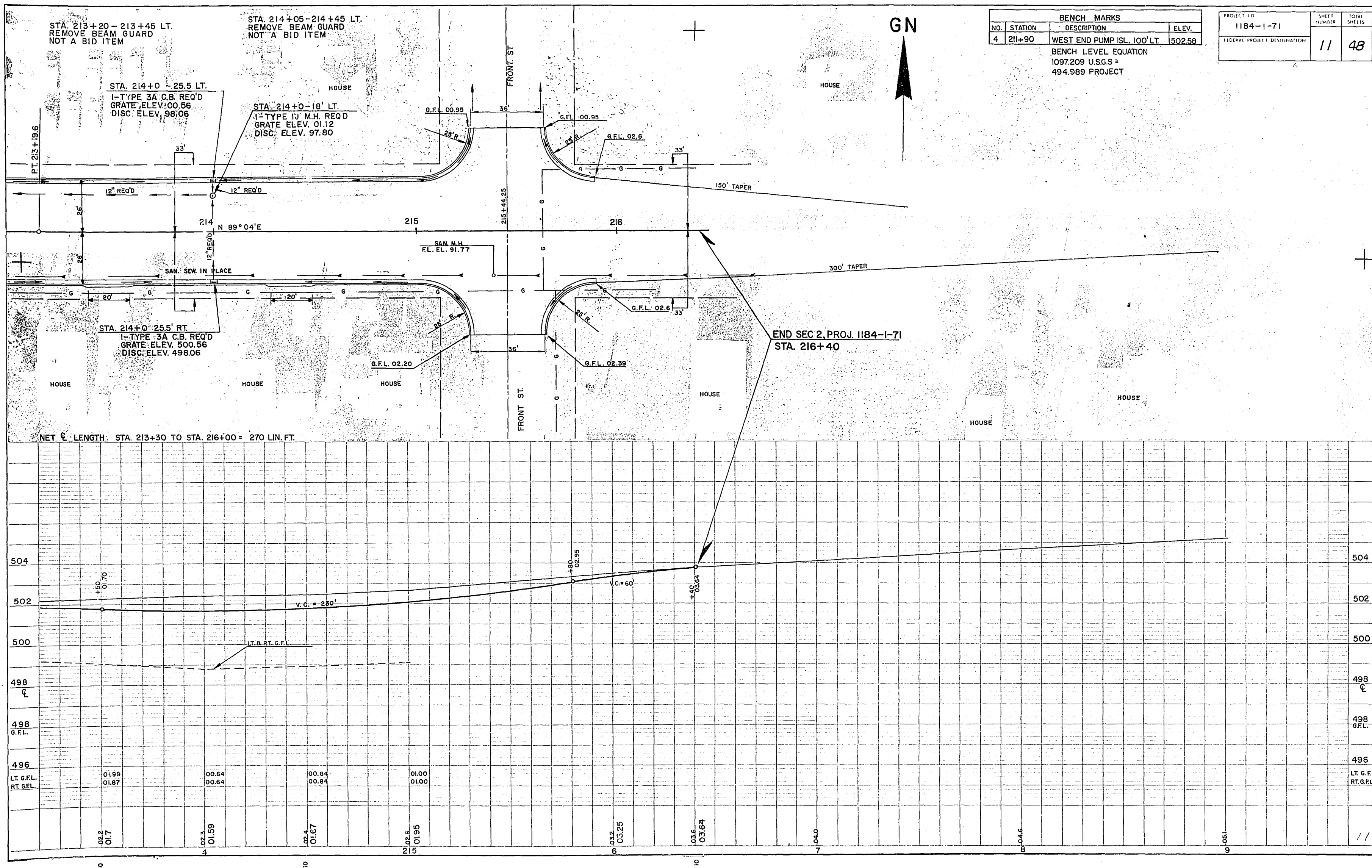
STA. 214+0-18' LT.
1-TYPE 13' M.H. REQ'D
GRATE ELEV. 01.12
DISC. ELEV. 97.80

STA. 214+0-25.5' RT.
1-TYPE 3A C.B. REQ'D
GRATE ELEV. 500.56
DISC. ELEV. 498.06

NET C LENGTH STA. 213+30 TO STA. 216+00 = 270 LIN. FT.

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
4	211+90	WEST END PUMP ISL. 100' LT.	502.58
BENCH LEVEL EQUATION 1097.209 U.S.G.S ± 494.989 PROJECT			

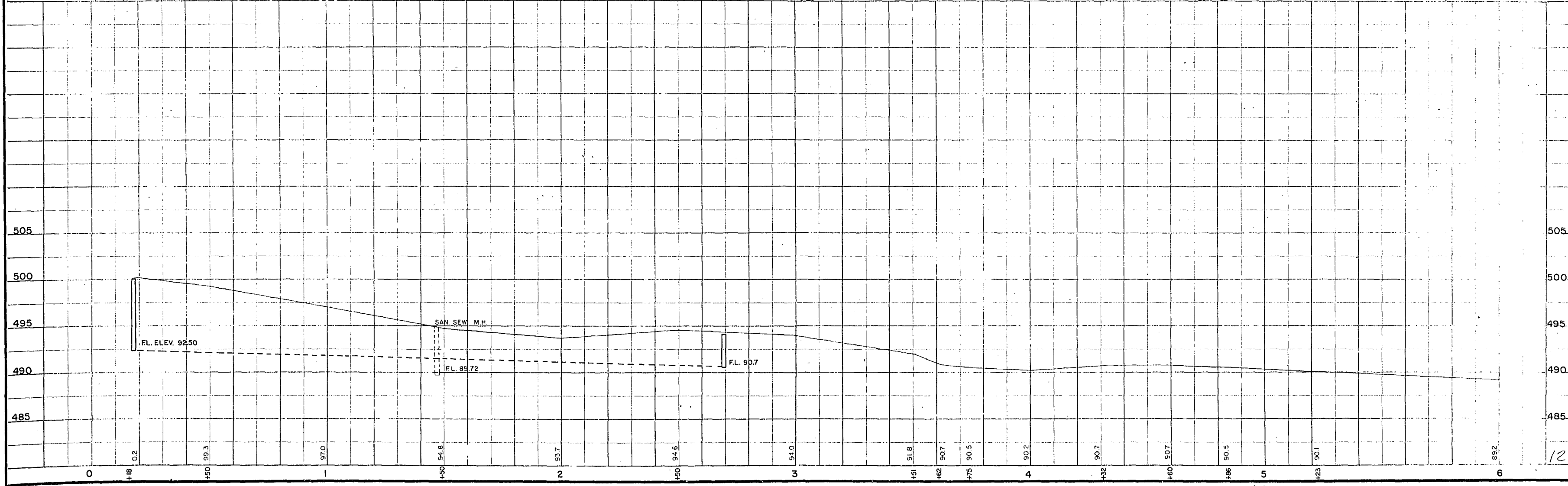
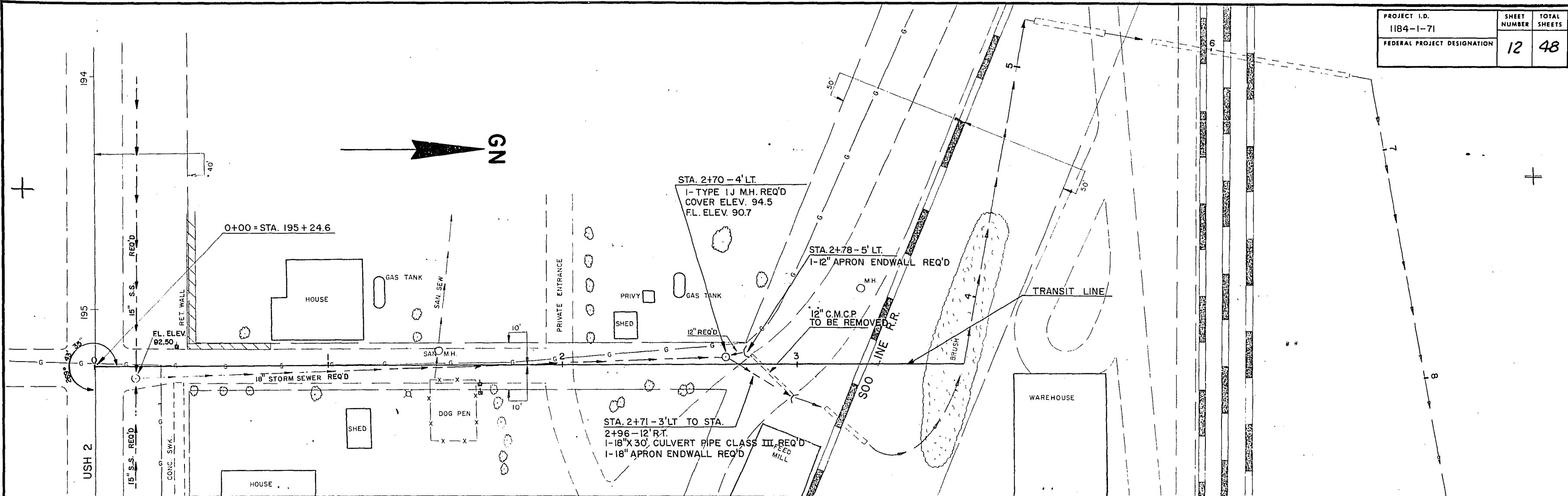
PROJECT ID	SHEET NUMBER	TOTAL SHEETS
1184-1-71	11	48
FEDERAL PROJECT DESIGNATION		



PROVIDED
NOTE BOOK
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NO.

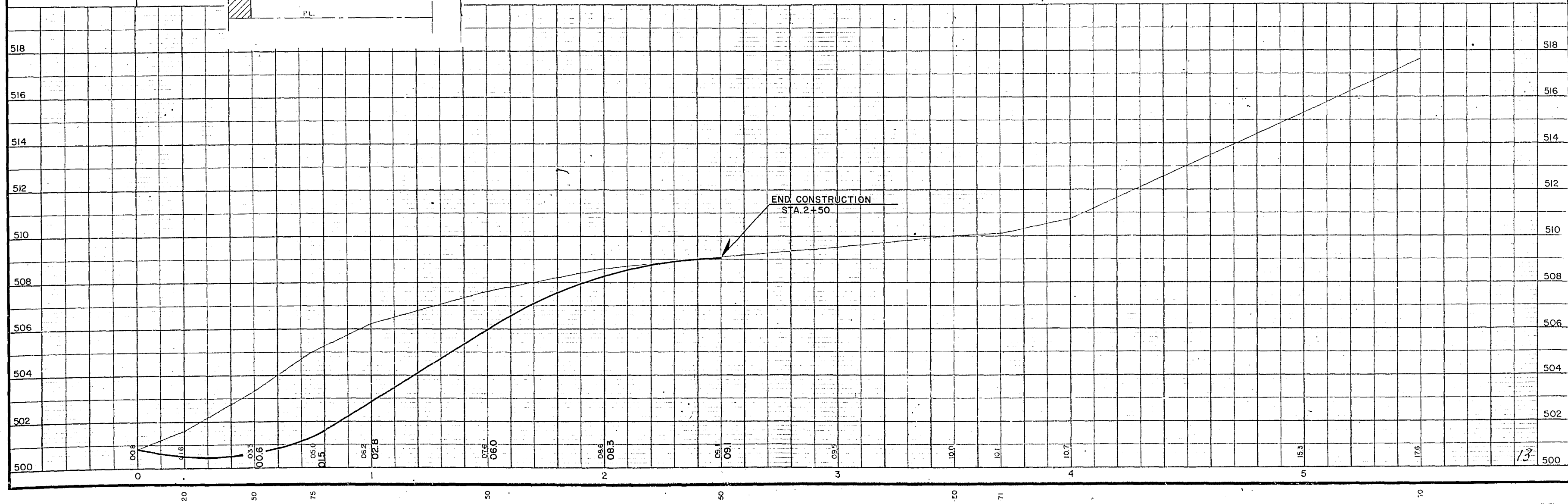
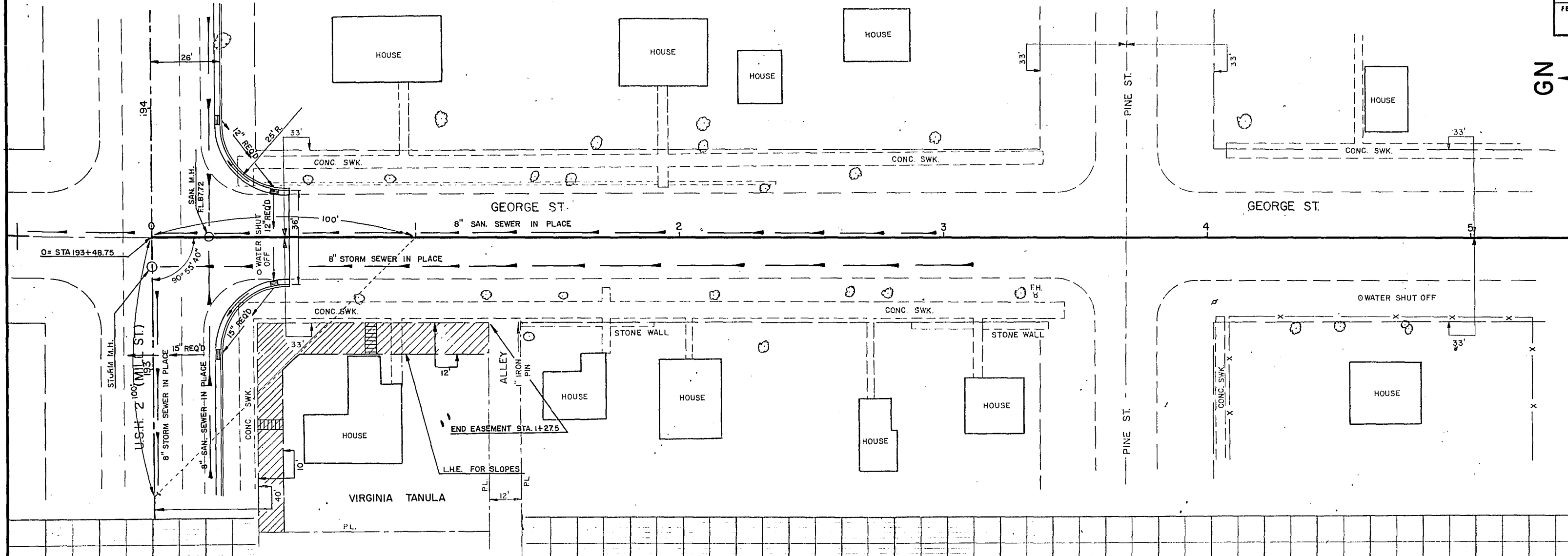
PROVIDED
NOTE BOOK
STRUCTURE NOTATIONS OK'D
NO.

PROJECT I.D. 1184-1-71	SHEET NUMBER 12	TOTAL SHEETS 48
FEDERAL PROJECT DESIGNATION		



TOWN OF IRON RIVER

PROJECT I.D. 1184-1-71	SHEET NUMBER 13	TOTAL SHEETS 48
FEDERAL PROJECT DESIGNATION		



ALIGNMENT CHECKED
BY OF MAY CHECKED
NO L.L.

NOTE BOOK
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHG

14-48

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:

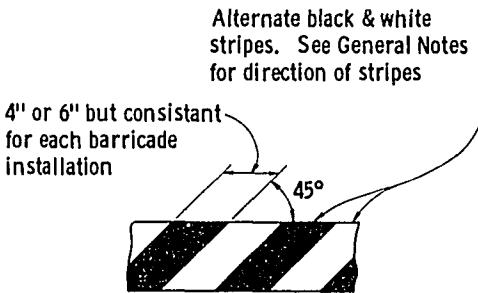
Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and 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:

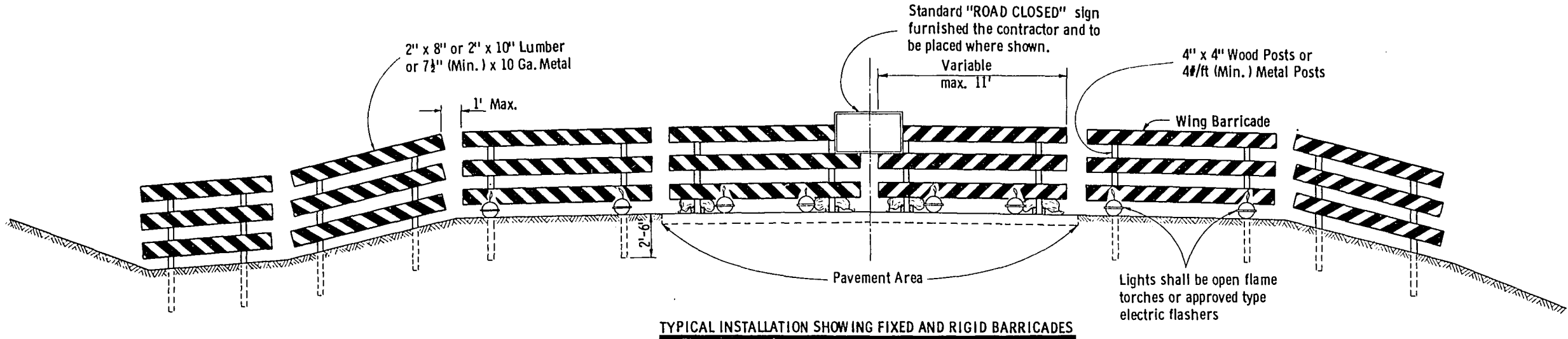
Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

MEASUREMENT & PAYMENT:

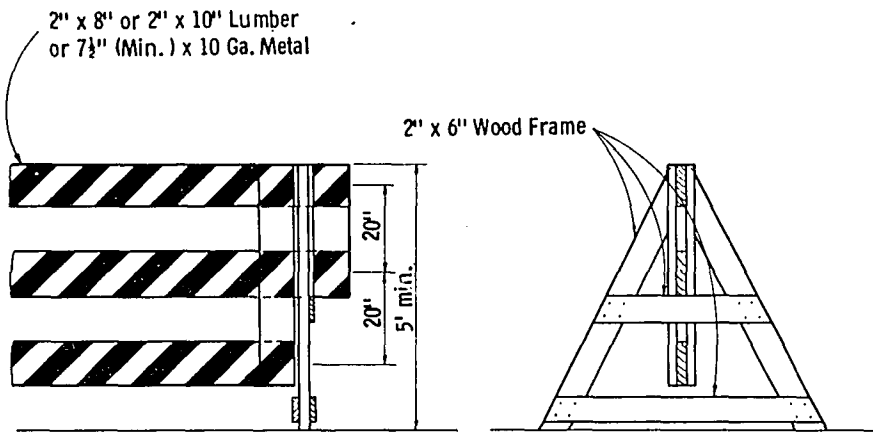
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.



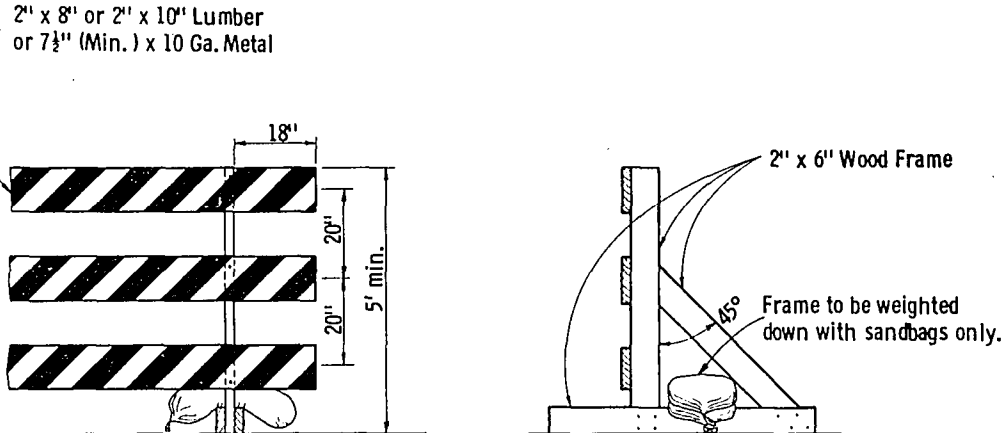
TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types of Barricades



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

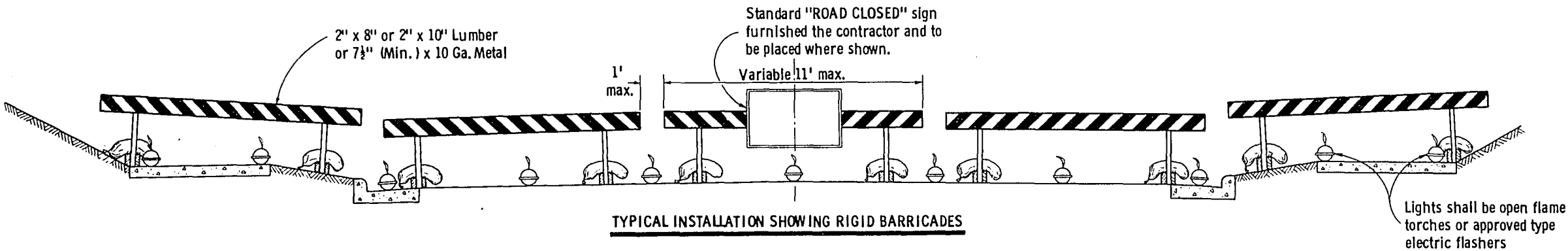


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

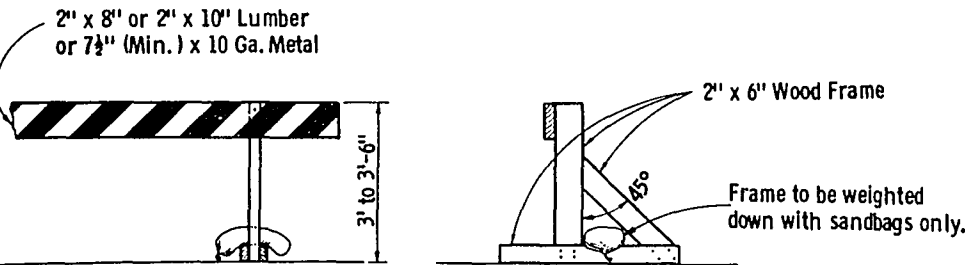


ALTERNATE TYPE INSTALLATION (RIGID)

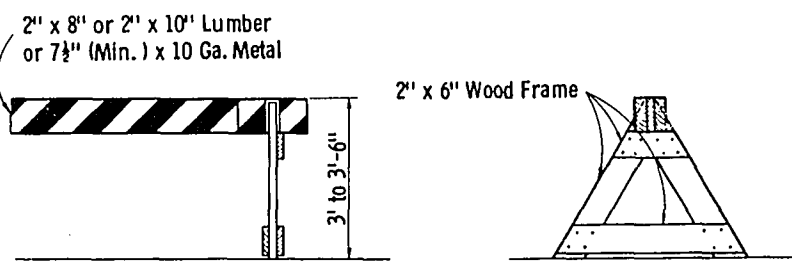
CLASS I BARRICADES



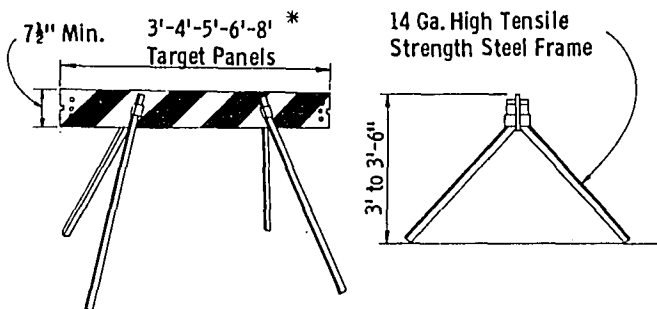
TYPICAL INSTALLATION SHOWING RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)



* Maximum length of combination panels 16'

ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADES

CONSTRUCTION BARRICADE

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:

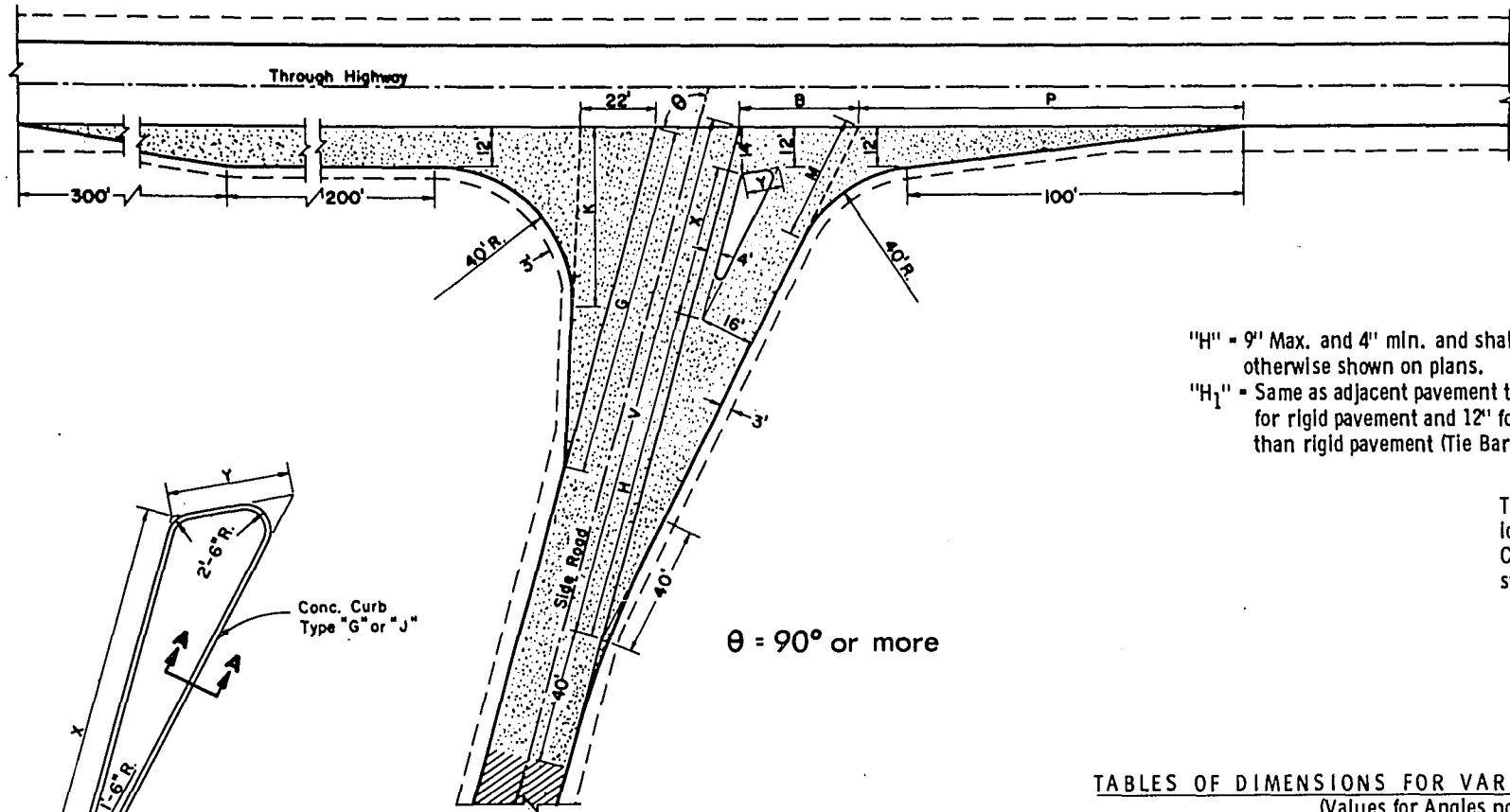
DATE 1/1/67

APPROVED: 1/3/67

DATE

E. J. B. Chief Design Engineer

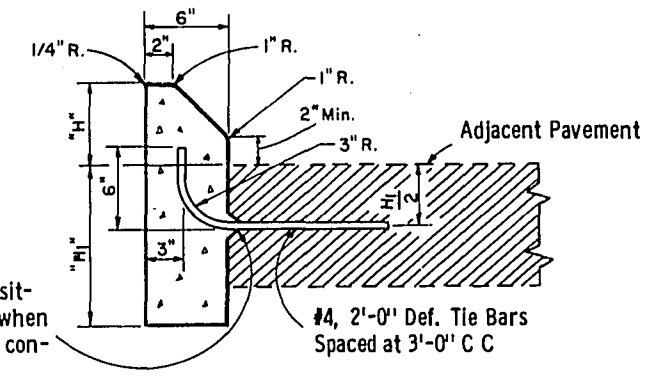
H. J. Hummel State Highway Engineer



$\theta = 90^\circ$ or more

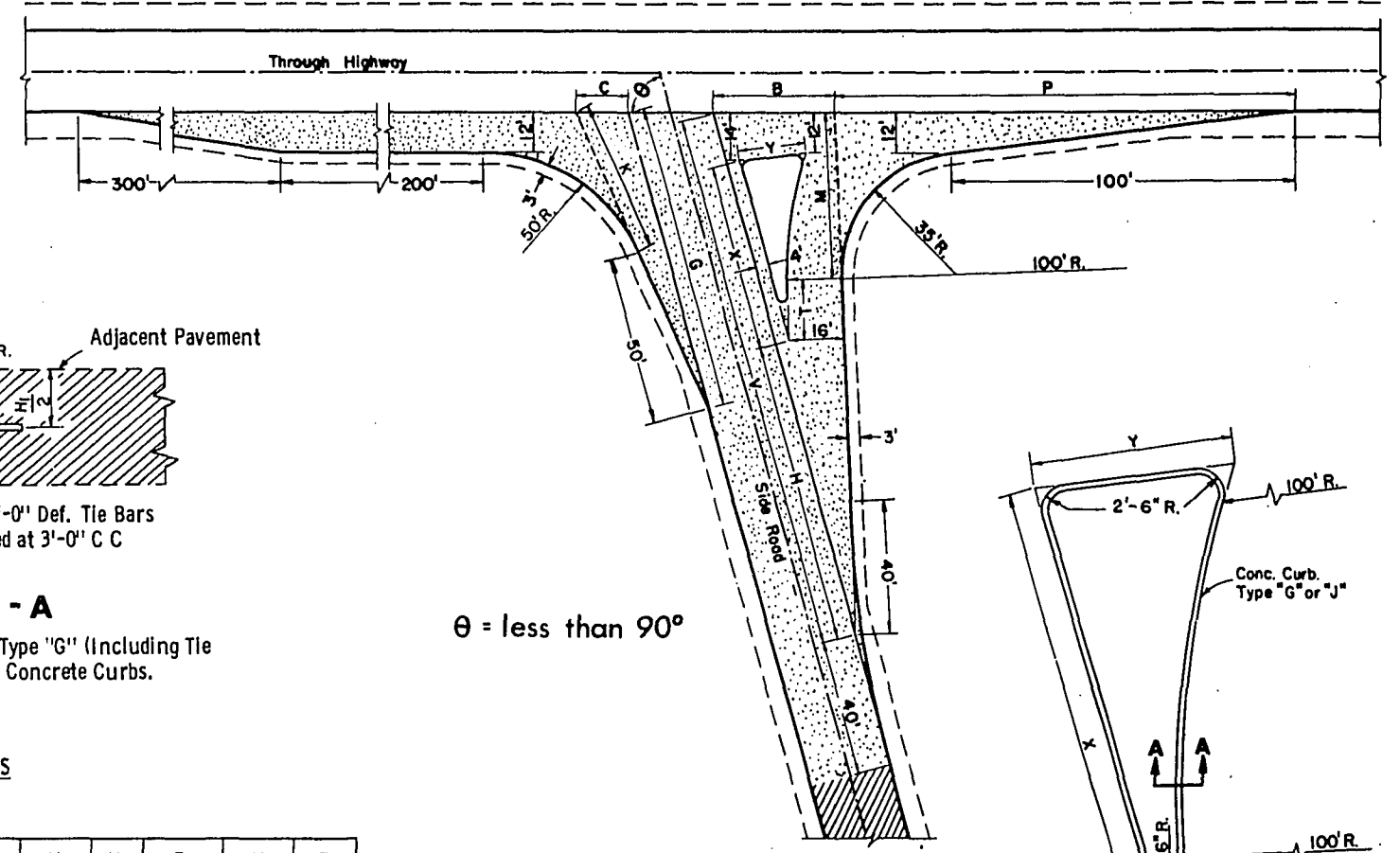
"H" = 9" Max. and 4" min. and shall be 6" unless otherwise shown on plans.
"H₁" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

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)

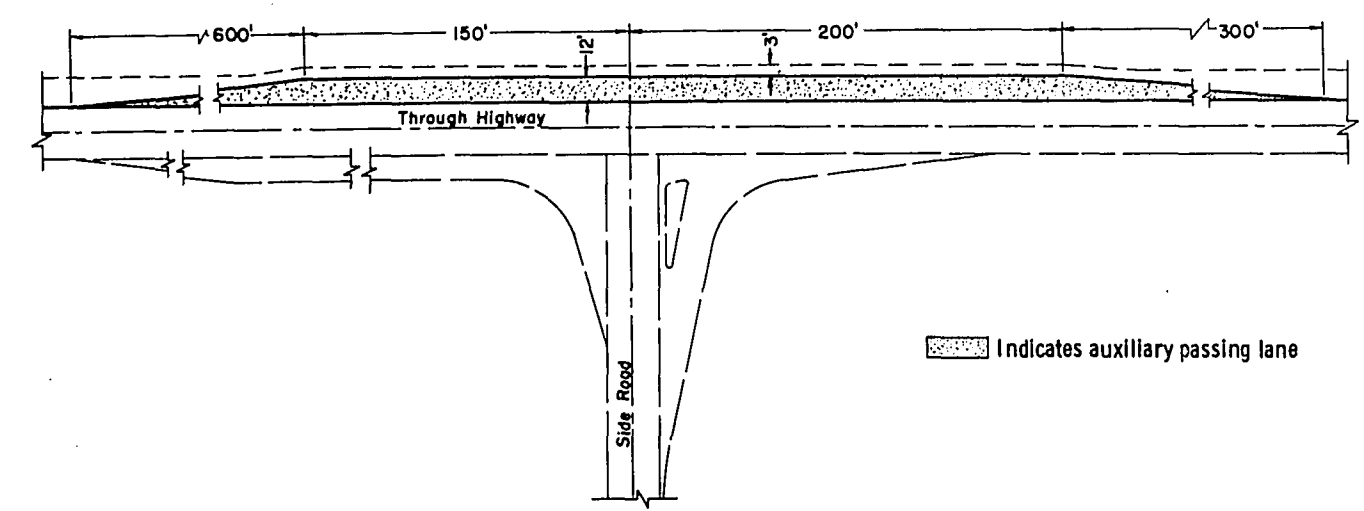
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1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

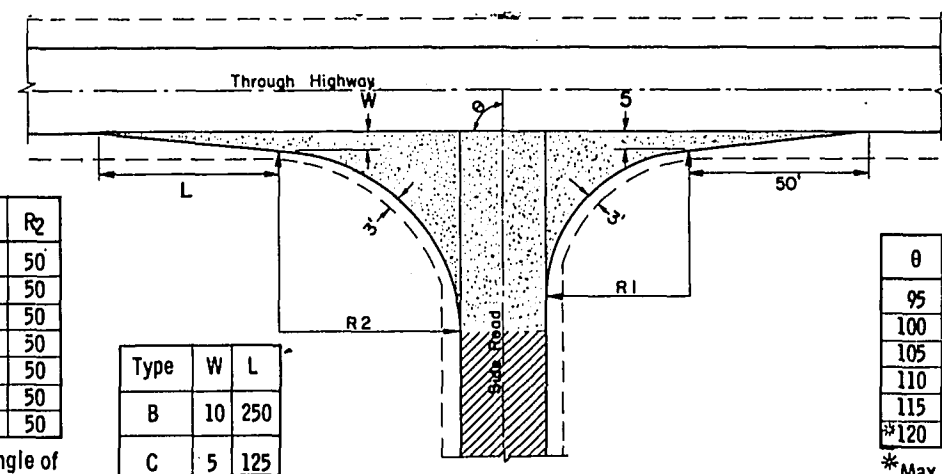
*Desirable Minimum angle of intersection

TYPE "A" SIDE ROAD INTERSECTION DETAILS



PASSING LANE DETAIL

Indicates auxiliary passing lane



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	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

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

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.

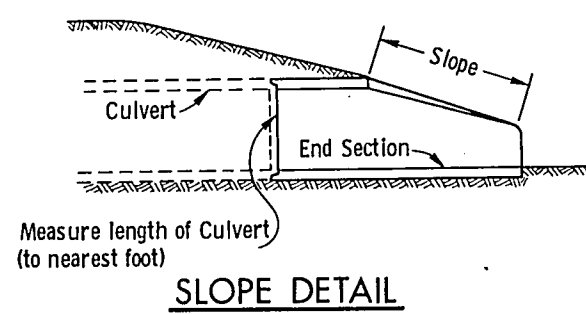
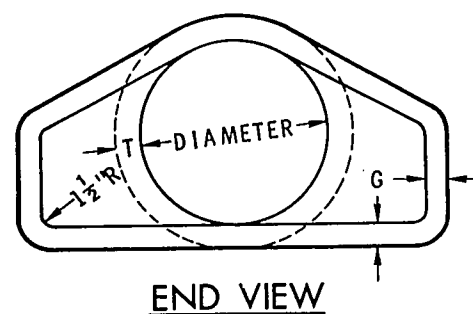
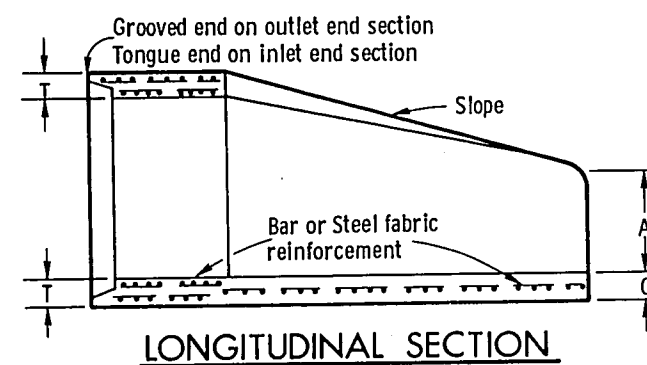
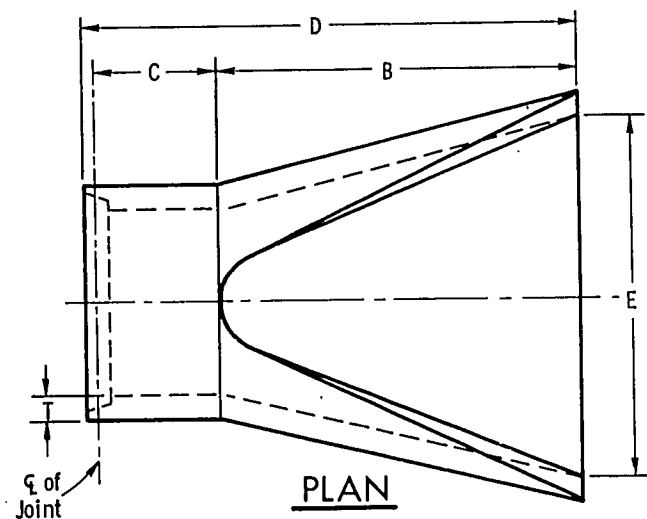
New Pavement
Existing Surface

LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL: *E.J. Bittel*
DATE: 8/9/67
CHIEF DESIGN ENGINEER

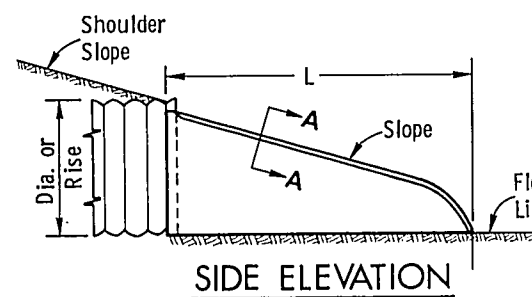
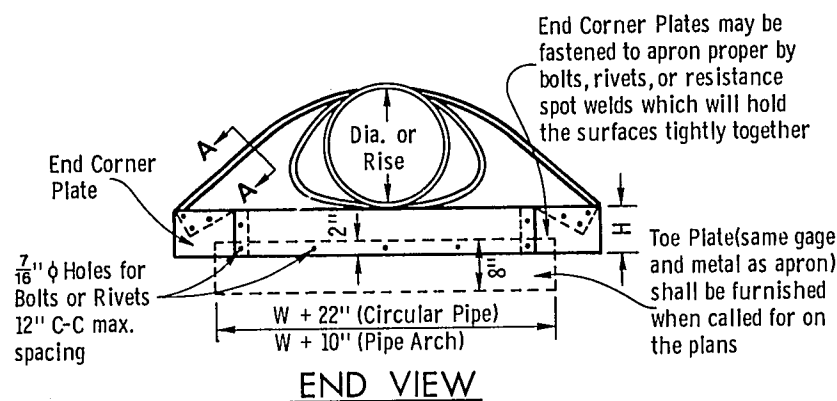
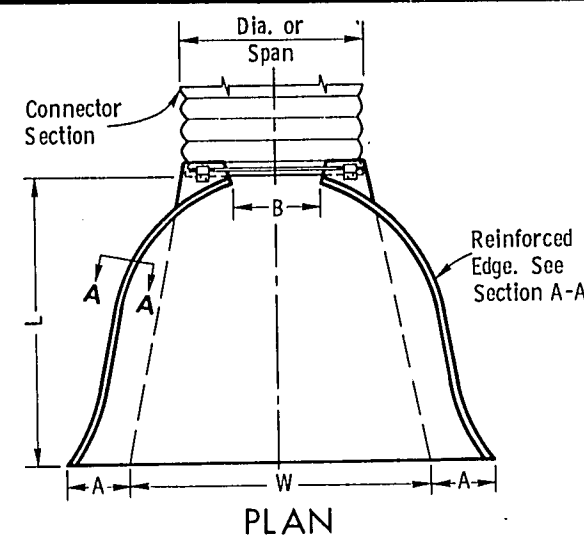
APPROVED: *A. J. Bernhardt*
DATE: 8/9/67
STATE HIGHWAY ENGINEER



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"	1,280	3 to 1	2 3/4"	9"	36"	37 1/2"	73 1/2"	42"	2 3/4"
24"	1,520	3 to 1	3"	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"
27"	1,930	3 to 1	3 1/4"	10 1/2"	49 1/2"	24"	73 1/2"	54"	3 1/4"
30"	2,190	3 to 1	3 1/2"	12"	54"	19 3/4"	73 3/4"	60"	3 1/2"
36"	4,100	3 to 1	4"	15"	63"	34 3/4"	97 3/4"	72"	4"
42"	5,380	3 to 1	4 1/2"	21"	63"	35"	98"	78"	4 1/2"
48"	6,550	3 to 1	5"	24"	72"	26"	98"	84"	5"
54"	8,040	2 3/5 to 1	5 1/2"	27"	65"	33 1/4" - 35"	98 1/4" - 100"	90"	5"
60"	8,730	2 to 1	6"	30"	60"	39"	99"	96"	5"
66"	10,630	2 to 1	6 1/2"	30"	72"	21" - 27"	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"

** Minimum
* Maximum

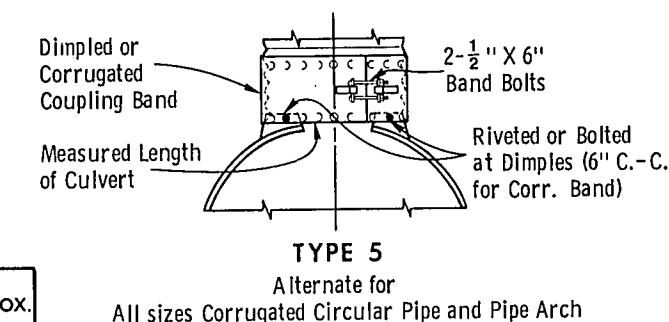
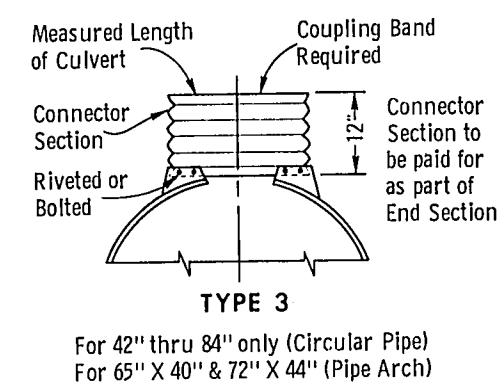
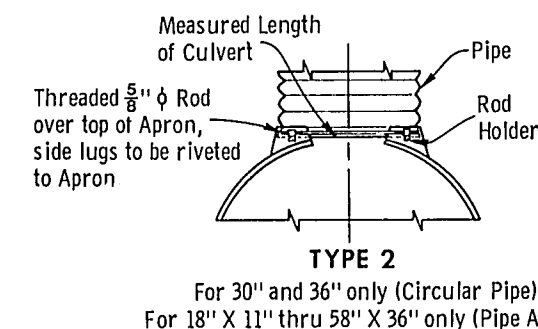
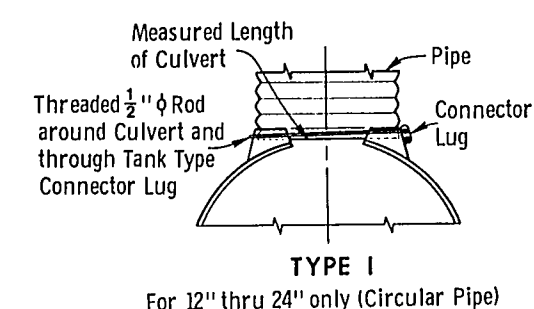
REINFORCED CONCRETE APRON ENDWALLS



D PIPE DIAM.	MIN. METAL GAGE	MIN. ALUM. GAGE	DIMENSIONS					APPROX. SLOPE
			A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	W ± 2"	
12"	16	16	6"	6"	6"	21"	24"	2 1/2 to 1
15"	16	16	7"	8"	6"	26"	30"	"
18"	16	16	8"	10"	6"	31"	36"	"
21"	16	16	9"	12"	6"	36"	42"	"
24"	16	14	10"	13"	6"	41"	48"	"
30"	14	14	12"	16"	8"	51"	60"	"
36"	14	12	14"	19"	9"	60"	72"	"
42"	12	12	16"	22"	11"	69"	84"	"
48"	12	12	18"	27"	12"	78"	90"	2 1/4 to 1
54"	12	12	18"	30"	12"	84"	102"	2 to 1
60"	10	8	18"	33"	12"	87"	114"	1 3/4 to 1
66"	10	8	18"	36"	12"	87"	120"	1 1/2 to 1
72"	10	8	18"	39"	12"	87"	126"	1 1/5 to 1
78"	8	NA	18"	42"	12"	87"	132"	1 1/4 to 1
84"	8	NA	18"	45"	12"	87"	138"	1 1/6 to 1

NOTE: All splices to be lap riveted or bolted

METAL OR ALUMINUM APRON ENDWALLS FOR CIRCULAR PIPES



NOTE: Dimpled Band fits over Outside of Endwall, and Corr. Band fits Inside Endwall. Dimpled Band may be used with Helically Corrugated Pipe

CONNECTION DETAILS

CIRCULAR PIPE

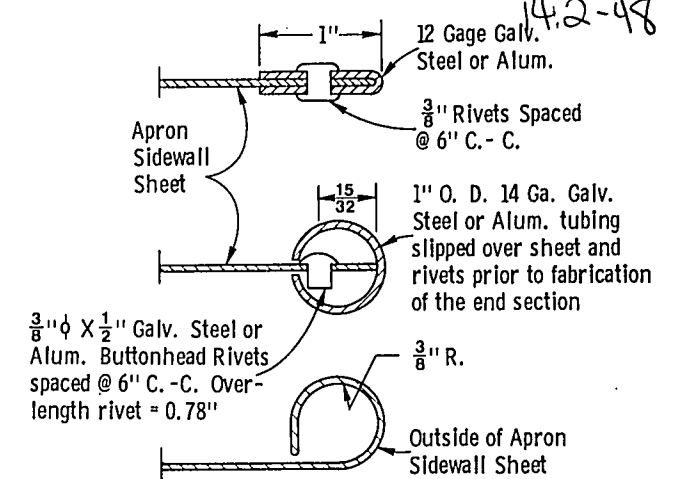
For Circumferentially Corrugated Pipe use Endwall Connection Details 1, 2, 3, or 5 as applicable.

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.



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 metal or aluminum culvert pipe, nor may metal or aluminum culvert endwalls be used with concrete culvert pipe.

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 AND PIPE ARCH

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

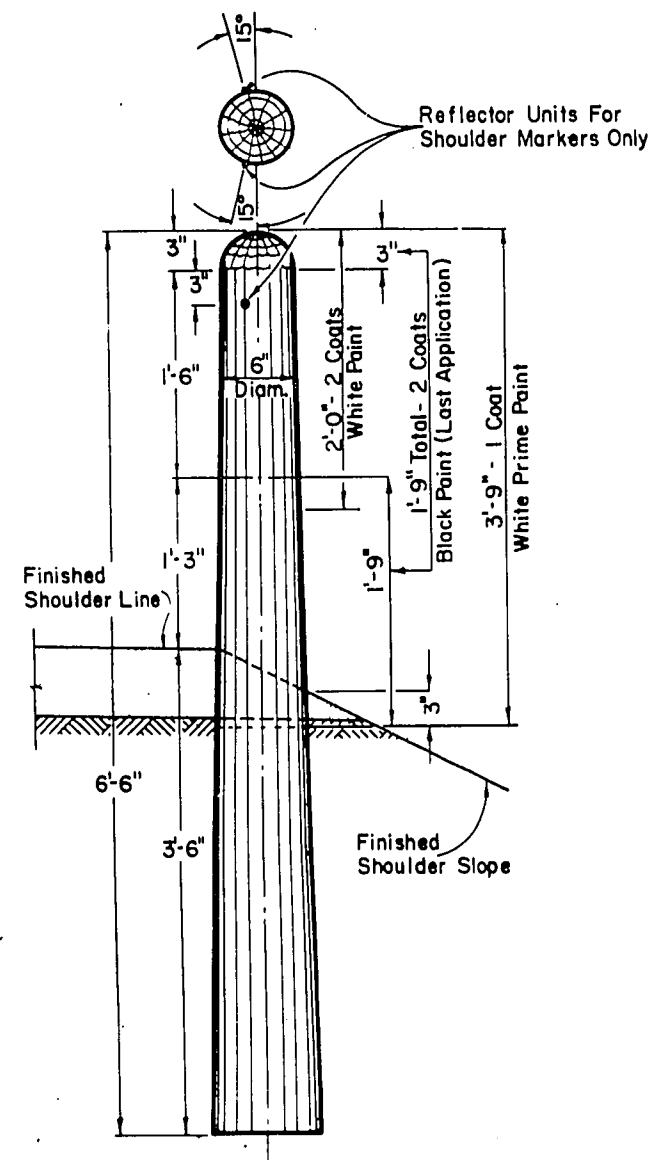
5/13/71
DATE

APPROVED:

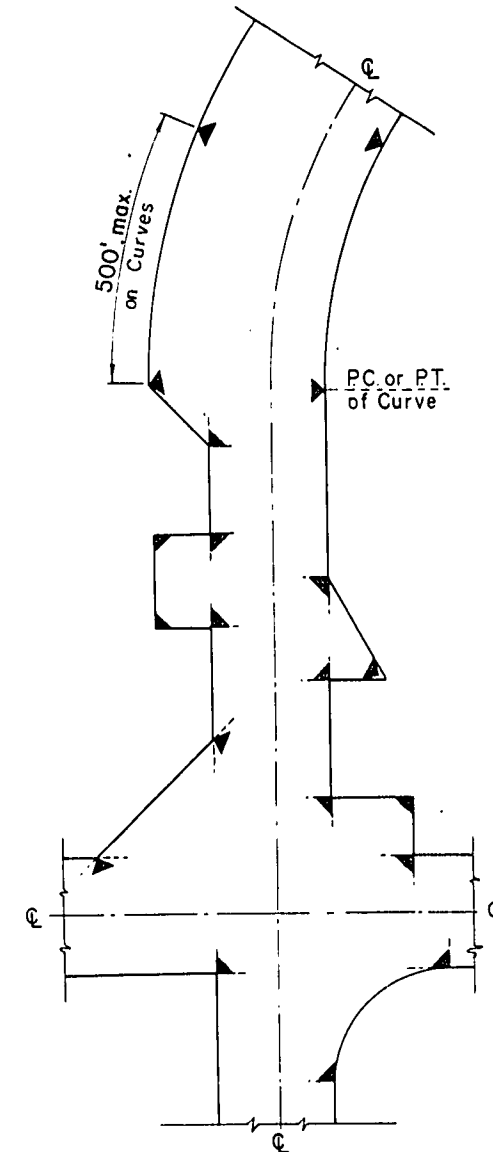
5/13/71
DATE

L. C. Sherrill
ACTING CHIEF DESIGN ENGINEER

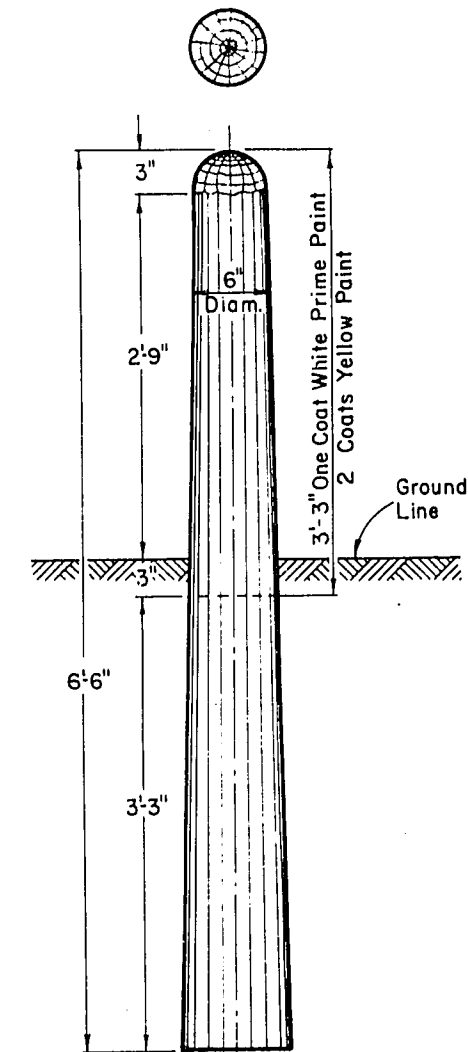
H. J. Hammett
STATE HIGHWAY ENGINEER



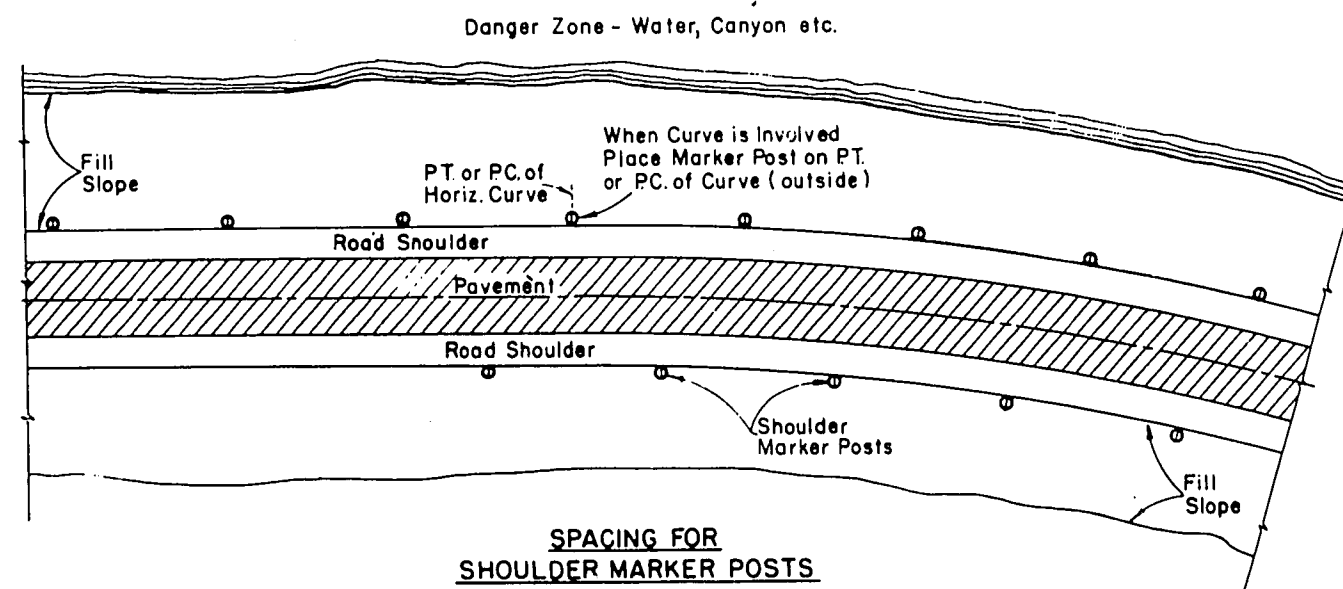
MARKER POST FOR
ROAD SHOULDERS



LOCATION DIAGRAM
SHOWING TYPICAL LOCATIONS OF
MARKER POSTS FOR RIGHT OF WAY



MARKER
POST
FOR
RIGHT OF WAY



SPACING FOR
SHOULDER MARKER POSTS

50' C:C for 100' to 500' Danger Zones
100' C:C for Over 500' Danger Zones

LOCATION DIAGRAM

SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS

MARKER POSTS FOR ROAD SHOULDERS

MARKER POST FOR RIGHT OF WAY

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.

MARKER POSTS FOR RIGHT OF WAY

Right of Way Marker Posts shall be erected in advance of grading operations. Posts shall be placed at the outer limits of the highway Right of Way, but entirely within the Right of Way, and shall be so placed that the outer edge of the posts shall be tangent to the Right of Way line or lines extended. The exact location of all Right of Way posts will be staked in the field by the Engineer.

REFLECTOR UNITS

Reflector Units shall be installed in road shoulder marker posts only. Reflector Units shall have plastic crystal lens 7/8" in diameter. Unit assembly shall be a minimum of 7/8" in length. Reflector Units shall be furnished with flared expanding metal clips for wood mounting. Units shall be mounted in tightest fit possible and securely stayed in posts.

MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL

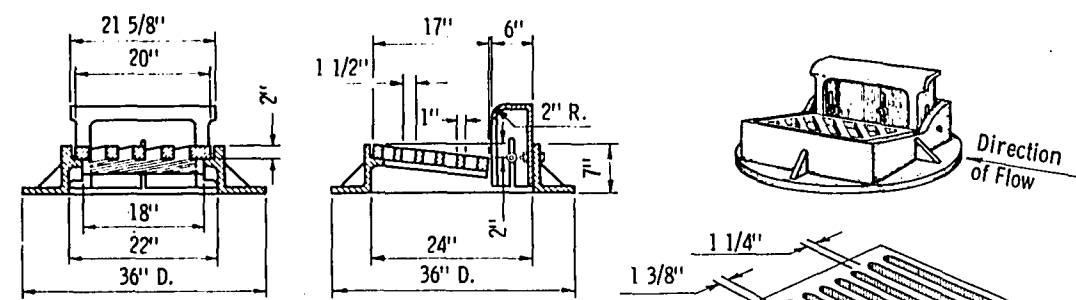
7/6/66
DATE

APPROVED

7/9/66
DATE

E.J. Byrkit
CHIEF DESIGN ENGINEER

STATE HIGHWAY ENGINEER

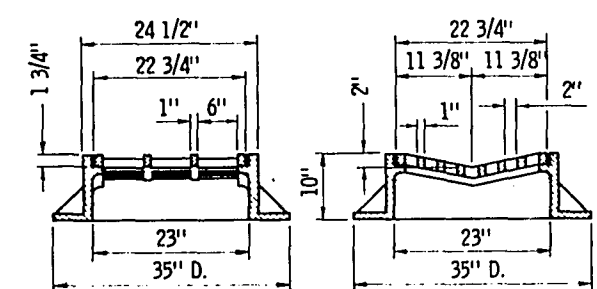
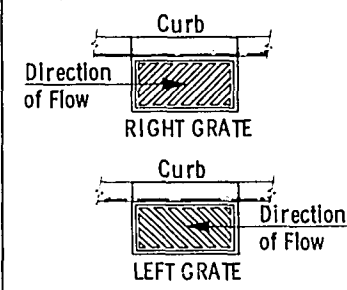


TYPE "A" - (Approx. Weight 390 Lbs.)

Frame Weight - 250 #
Grate " - 90 #
Box " - 50 #

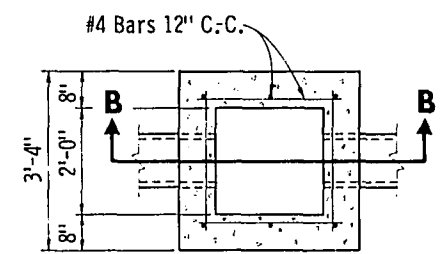
Alternate Type Grate
(Longitudinal Slots)
Approx. Weight - 100 #

SPECIAL NOTE
Diagonal Slots shall be oriented to the direction of flow as shown hereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow. (See Sketch Below)
Longitudinal slot type grates may be used ONLY where bicycles are prohibited.

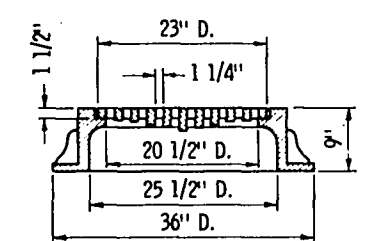


TYPE "B" - (Approx. Weight 414 Lbs.)

Frame Weight - 275 #
Grate " - 139 #



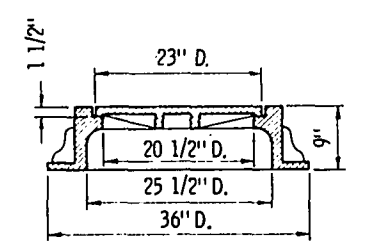
SECTION A-A
REINFORCED CONCRETE



TYPE "C" (Approx. Weight 370 Lbs.)

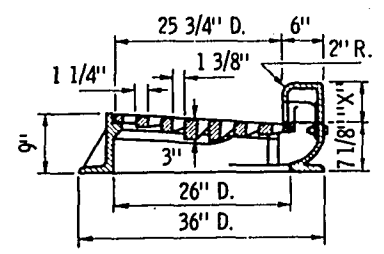
Frame Weight Type "C" & Type "D" - 255 #
Slotted Grate Weight - 115 #
Solid Cover Weight - 150 #

(Note: Frame for Type "C" same as for Type "D")



TYPE "D" (Approx. Weight 405 Lbs.)

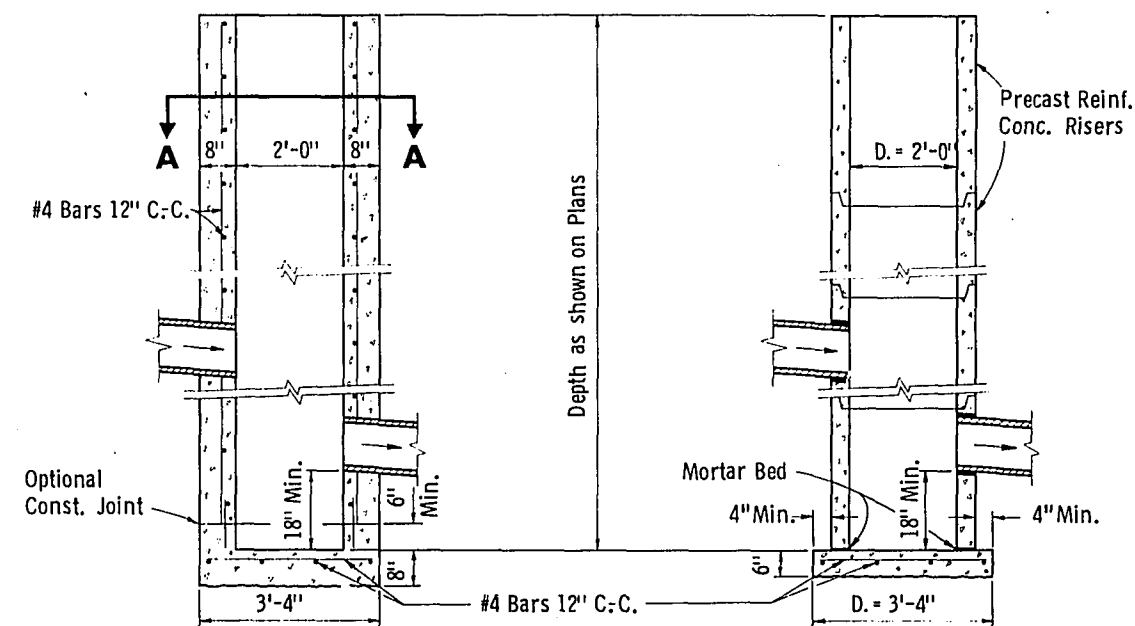
(Note: Frame for Type "D" same as for Type "C")



TYPE "G" - (Approx. Weight 425 - 465 Lbs.)

Frame Weight - 235 #
Grate " - 130 #
Box - See Table

Curb Height	(X)	Weight
4"	4 1/4"	60 #
6"	6 1/4"	70 #
8"	8 1/4"	90 #
10"	10 1/4"	100 #



SECTION B-B
REINFORCED CONCRETE

PRECAST REINFORCED CONCRETE

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.
- Detailed drawings for proposed alternate designs for Catch Basins or Catch Basin Covers shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.
- All Catch Basins are designated on the Plans as "Catch Basins, 3-C", 3-G, etc. This designation is interpreted to mean that the number, or first digit designates the masonry portion of the structure, and the following letter designates the type of cover or iron casting to be used therewith to comprise the complete unit "Catch Basin" in place.
- All bar steel reinforcement shall be embedded 2 inches clear
- Precast Reinforced Bases may be used in lieu of cast-in-place bases. When Precast Bases are used, they shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding material shall be compacted and provide uniform support for the entire area of the base.
- All Precast Reinforced Concrete Risers, Grade Rings, and Flat Slab Tops shall conform to AASHTO Designation M 199. Precast Reinforced Concrete Bases shall conform to the Flat Slab Top requirements of AASHTO Designation M 199.
- Adjustment of the cover to grade may be accomplished by the use of mortar and brick, or by a Precast Reinforced Concrete Grade Ring. Maximum adjustment shall be 8 inches.
- Precast Reinforced Concrete Risers may be placed with tongue or "D" joint ends either up or down.
- Steps shall be installed in all Catch Basins over 5 feet in depth. Steps shall be installed 5 inches clear from wall at the center of the step. Steps shall conform to the requirements of the Standard Specifications for Gray Iron Castings, ASTM Designation A48. Steps shall have a minimum width of 9 inches out to out of casting.
- All Catch Basin and Inlet frames and grates which are placed in vehicular traffic areas shall be "Non-Rocking" type, so as to prevent all cover noise under traffic.
- Curb Box height to be adjustable 4 - 9 inches unless otherwise noted. Curb box height to be adjusted after curb form is in place.

CATCH BASIN COVERS

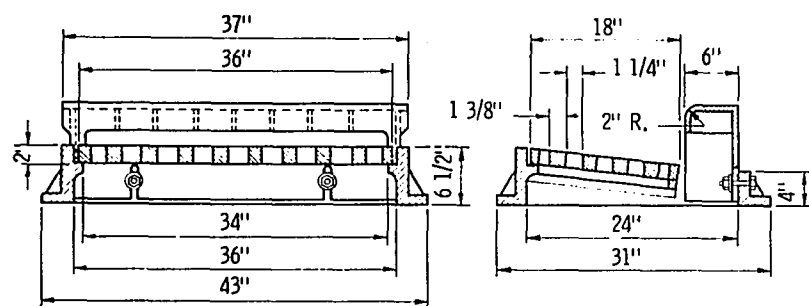
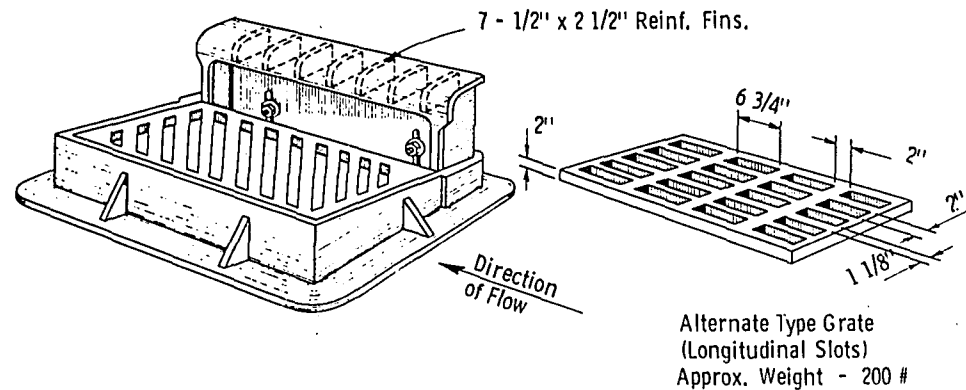
CATCH BASIN TYPE 3

**CATCH BASINS TYPE 3
& CATCH BASIN COVERS**

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
DATE 4/25/69
APPROVED:
DATE 4/25/69

E. J. Burkitt
CHIEF DESIGN ENGINEER
A. J. Summerville
STATE HIGHWAY ENGINEER



TYPE "H" (Approx. Weight 530 Lbs.)
Frame Weight - 220 #
Grate " - 200 #
Box " - 110 #

SPECIAL NOTE

Diagonal Slots shall be oriented to the direction of flow as shown hereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow. (See Sketch Below)

Longitudinal slot type grates may be used ONLY where bicycles are prohibited.

Curb

Direction of Flow

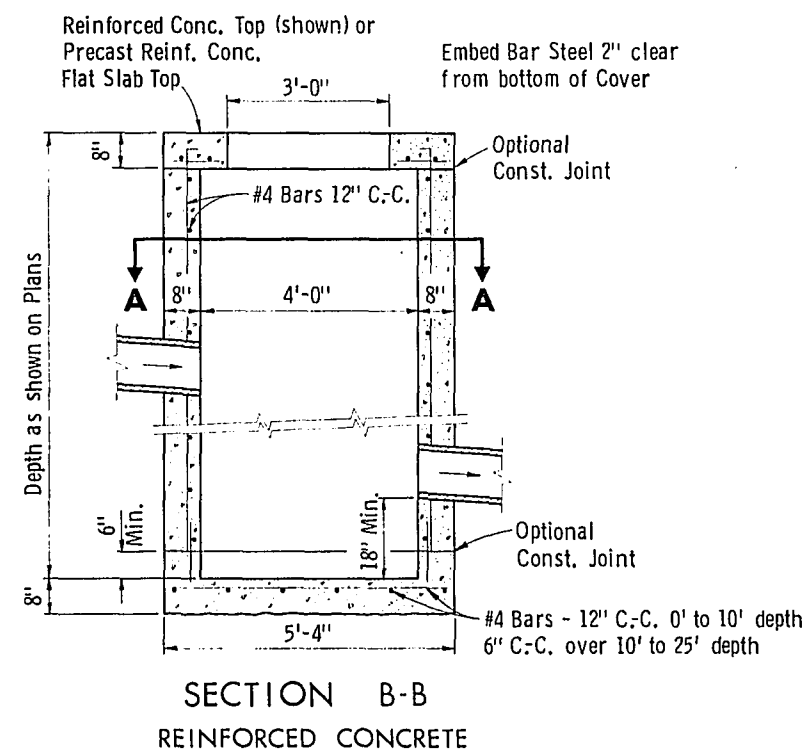
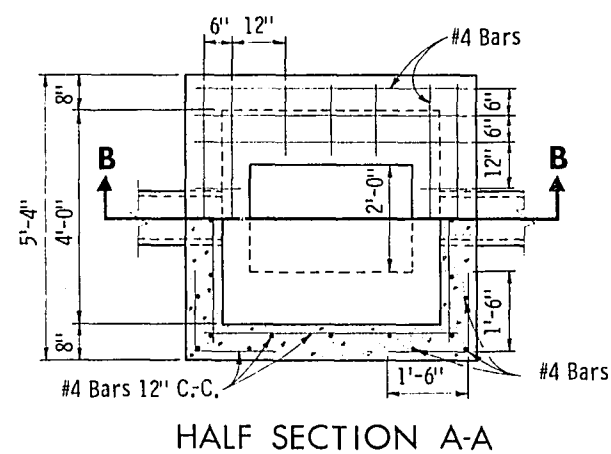
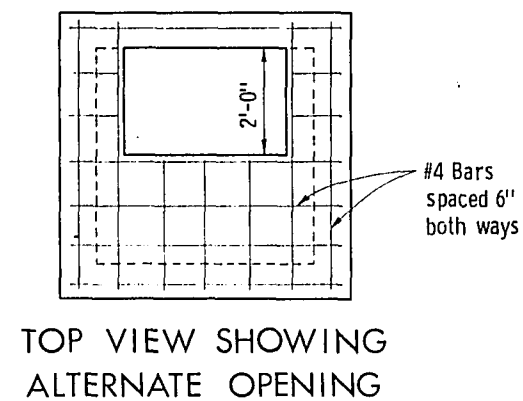
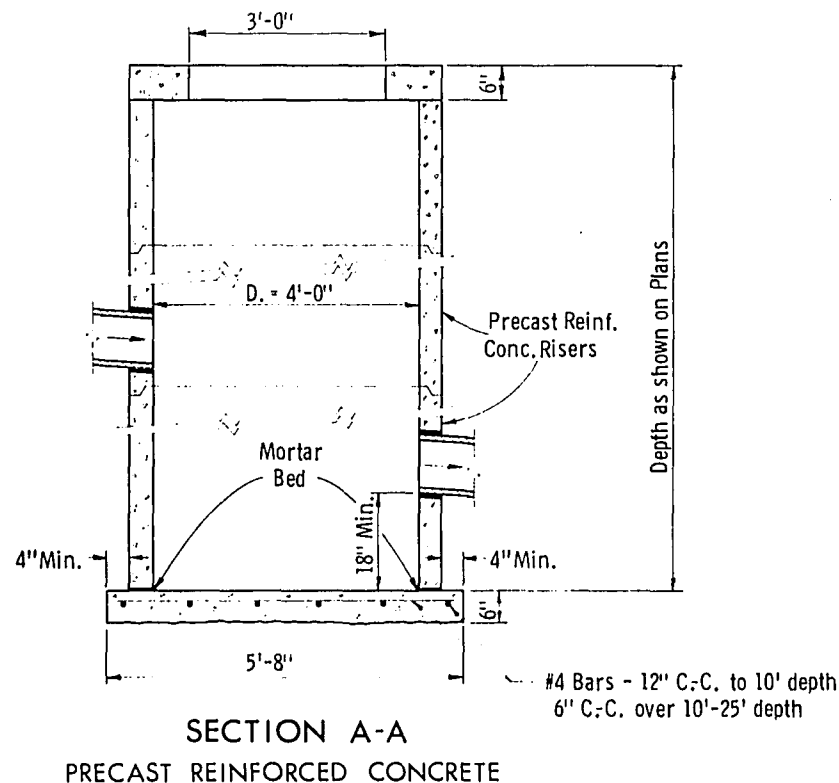
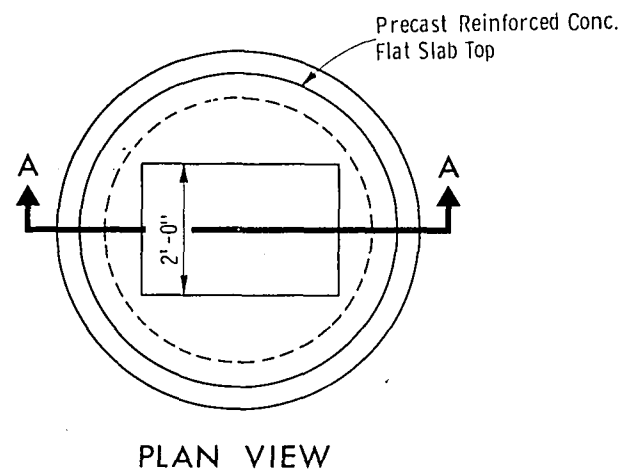
RIGHT GRATE

Curb

Direction of Flow

LEFT GRATE

CATCH BASIN COVER



GENERAL NOTES

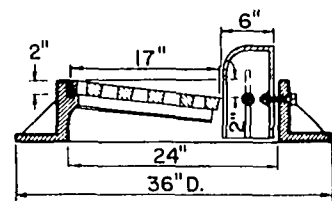
1. Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.
2. Detailed drawings for proposed alternate designs for Catch Basins or Catch Basin Covers shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.
3. All Catch Basins are designated on the Plans as "Catch Basins, 5-H" etc. This designation is interpreted to mean that the number, or first digit designates the masonry portion of the structure, and the following letter designates the type of cover or iron casting to be used therewith to comprise the complete unit "Catch Basin" in place.
4. All bar steel reinforcement shall be embedded 2 inches clear.
5. Precast Reinforced Bases may be used in lieu of cast-in-place bases. When Precast Bases are used, they shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding material shall be compacted and provide uniform support for the entire area of the base.
6. All Precast Reinforced Concrete Risers, Grade Rings, and Flat Slab Tops shall conform to AASHO Designation M 199. Precast Reinforced Concrete Bases shall conform to the Flat Slab Top requirements of AASHO Designation M 199.
7. Steps shall be installed in all Catch Basins over 5 feet in depth. Steps shall be installed 5 inches clear from wall at the center of the step. Steps shall conform to the requirements of the Standard Specifications for Gray Iron Castings, ASTM Designation A48. Steps shall have a minimum width of 9 inches out to out of casting.
8. Curb box height to be adjustable 4-9 inches unless otherwise noted. Curb box height to be adjusted after curb form is in place.

**CATCH BASINS TYPE 5
& CATCH BASIN COVER**

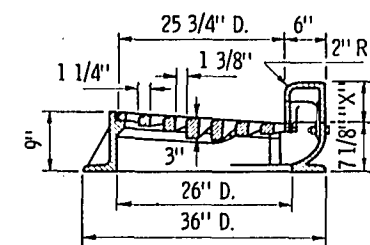
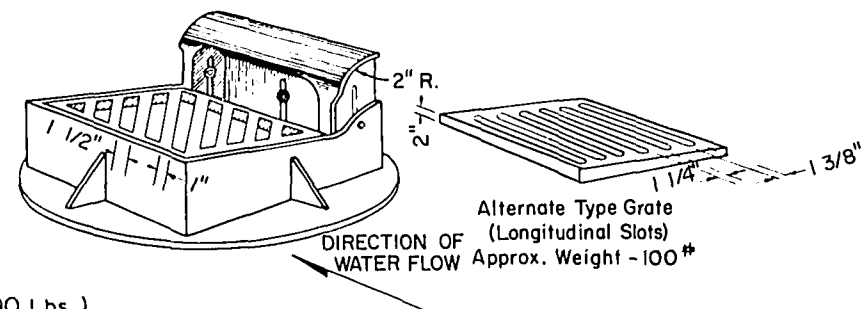
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
DATE 4/25/69
APPROVED:
DATE 4/25/69
E. J. Byrkit
CHIEF DESIGN ENGINEER
H. J. Summerville
STATE HIGHWAY ENGINEER

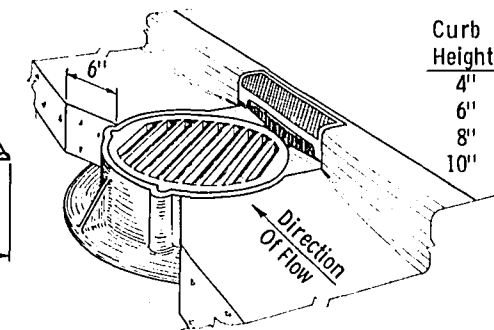
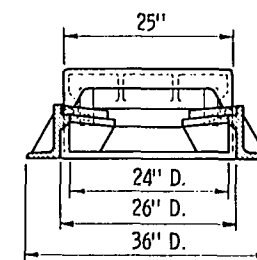
CATCH BASINS TYPE 5



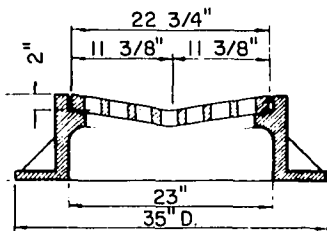
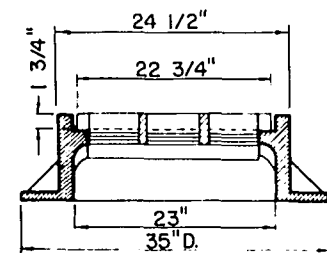
Frame	Weight	-	250	#
Grate	"	-	90	#
Box	"	-	50	#



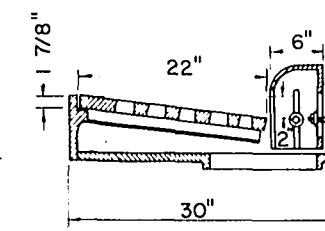
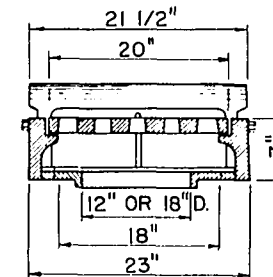
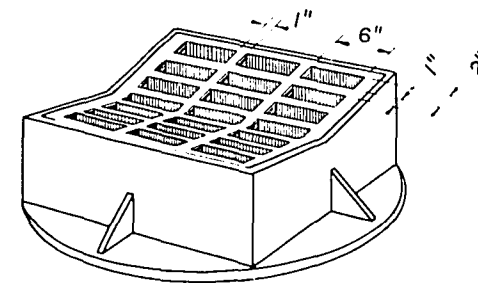
Frame Weight - 235 #
Grate " - 130 #
Box - See Table



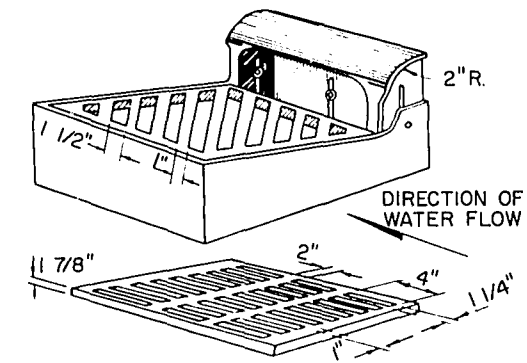
Curb Height	(X)	Weight
4"	4 1/4"	60 #
6"	6 1/4"	70 #
8"	8 1/4"	90 #
10"	10 1/4"	100 #



Frame Weight	-	275 #
Grate	-	139 #

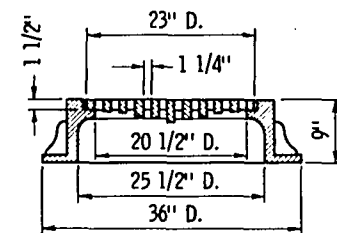
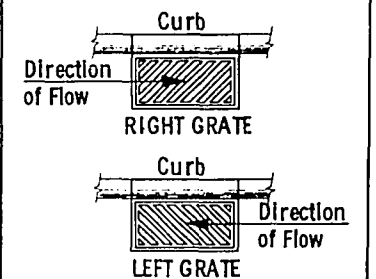


Alternate Type Grate
(Longitudinal Slots)



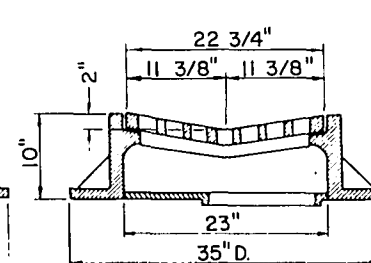
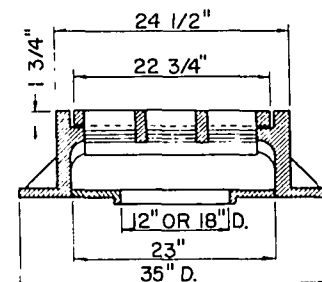
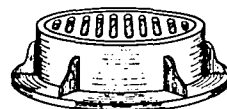
Diagonal Slots shall be oriented to the direction of flow as shown hereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow. (See Sketch Below)

Longitudinal slot type grates may be used ONLY where bicycles are prohibited.

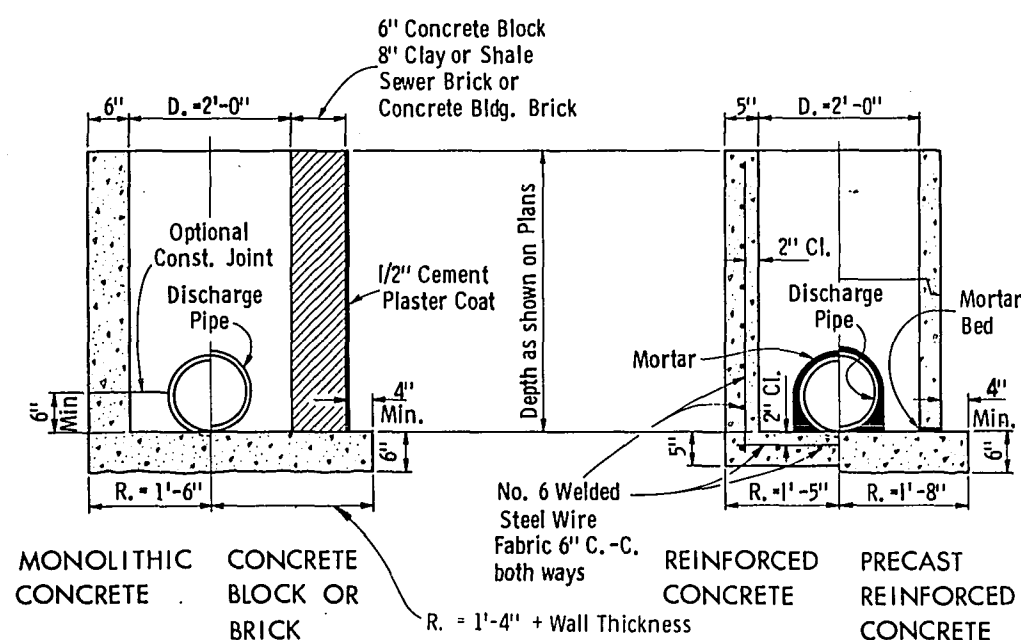
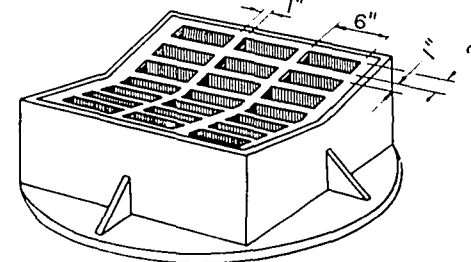


Frame Weight Type "C" & Type "D"	- 255	#
Slotted Grate Weight	- 115	#
Solid Cover Weight	- 150	#

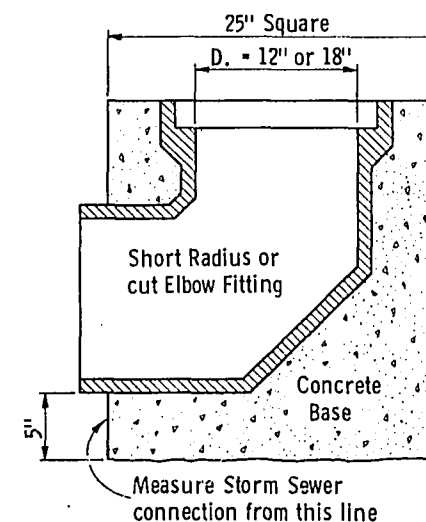
(Note: Frame for Type "C" same as for Type "D")



INLET COVERS



INLET TYPE 1



INLET TYPE 2

1. 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.
2. Detailed drawings for proposed alternate designs for Inlets shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.
3. All Inlets are designated on the Plans as "Inlets, 1-A", 2-R, etc. This designation is interpreted to mean that the number, or first digit, designates the masonry portion of the structure, and the following letter, designates the type of cover or iron casting to be used therewith to comprise the complete unit "Inlet" in place.
4. All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.
5. Precast Reinforced Bases may be used in lieu of cast-in-place bases. When Precast Bases are used, they shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding material shall be compacted and provide uniform support for the entire area of the base.
6. All Precast Reinforced Concrete Risers, Grade Rings, and Flat Slab Tops shall conform to AASHTO Designation M 199. Precast Reinforced Concrete Bases shall conform to the Flat Slab Top requirements of AASHTO Designation M 199.
7. Adjustment of the cover to grade may be accomplished by the use of mortar and brick. Maximum adjustment shall be 8 inches.
8. Precast Reinforced Concrete Risers may be placed with tongue or "D" joint ends either up or down.
9. Strike all joints for brick or block construction.

INLETS TYPE 1 & 2 AND INLET COVERS

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

5/7/69

DATE _____

APPROVED:

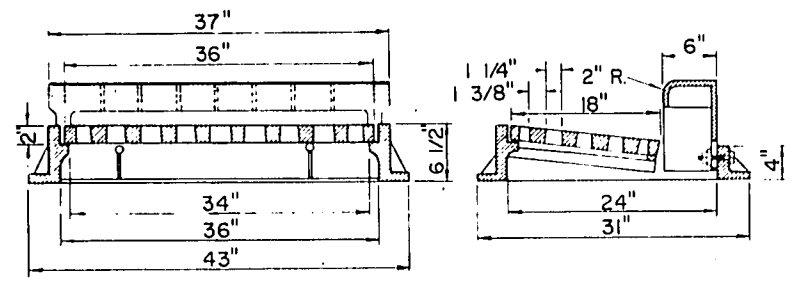
5/

VAL: E. J. Byrkit
CHIEF DESIGN ENGINEER

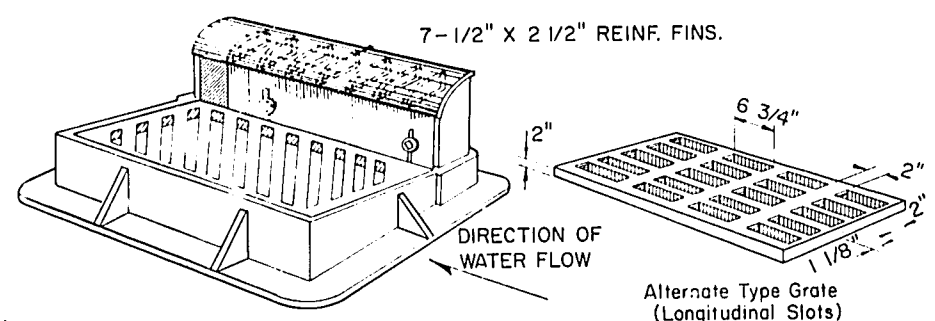
H. J. Dummett

STATE HIGHWAY ENGINEER

14.7-48



TYPE "H" - (Approx. Weight 530 Lbs.)
Frame Weight - 220#
Grate - 200#
Box - 110#



Alternate Type Grate
(Longitudinal Slots)
Approx. Weight - 200#

SPECIAL NOTE

Diagonal Slots shall be oriented to the direction of flow as shown hereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow. (See Sketch Below)

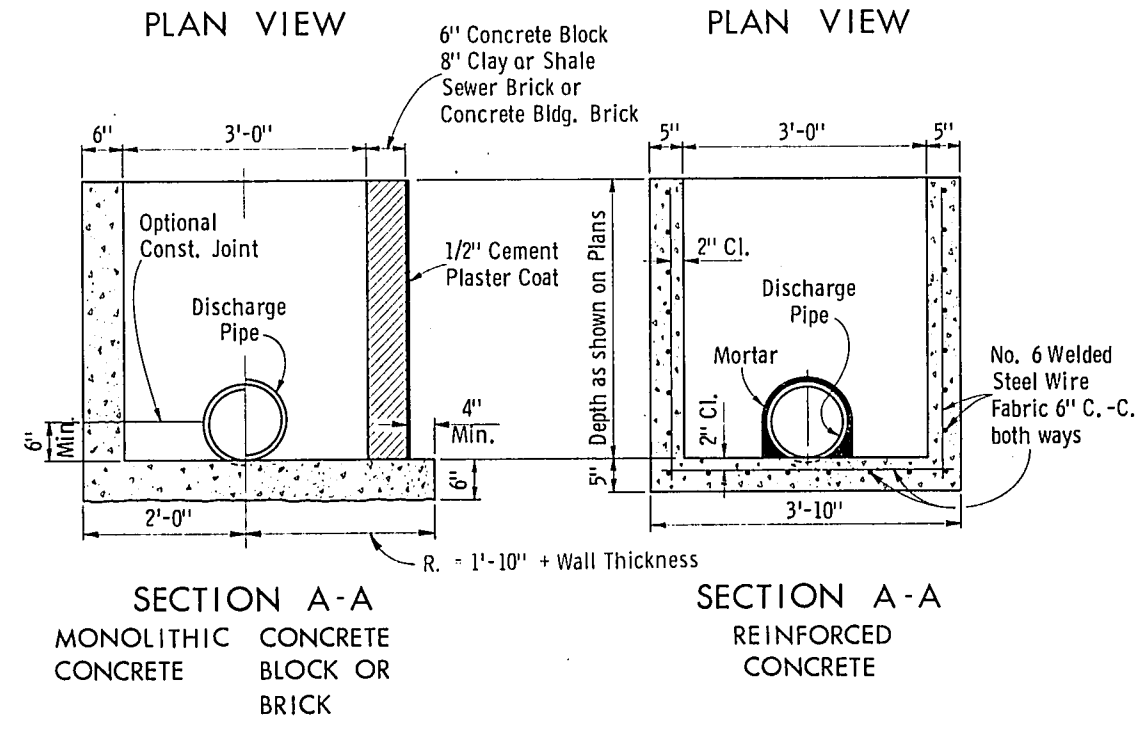
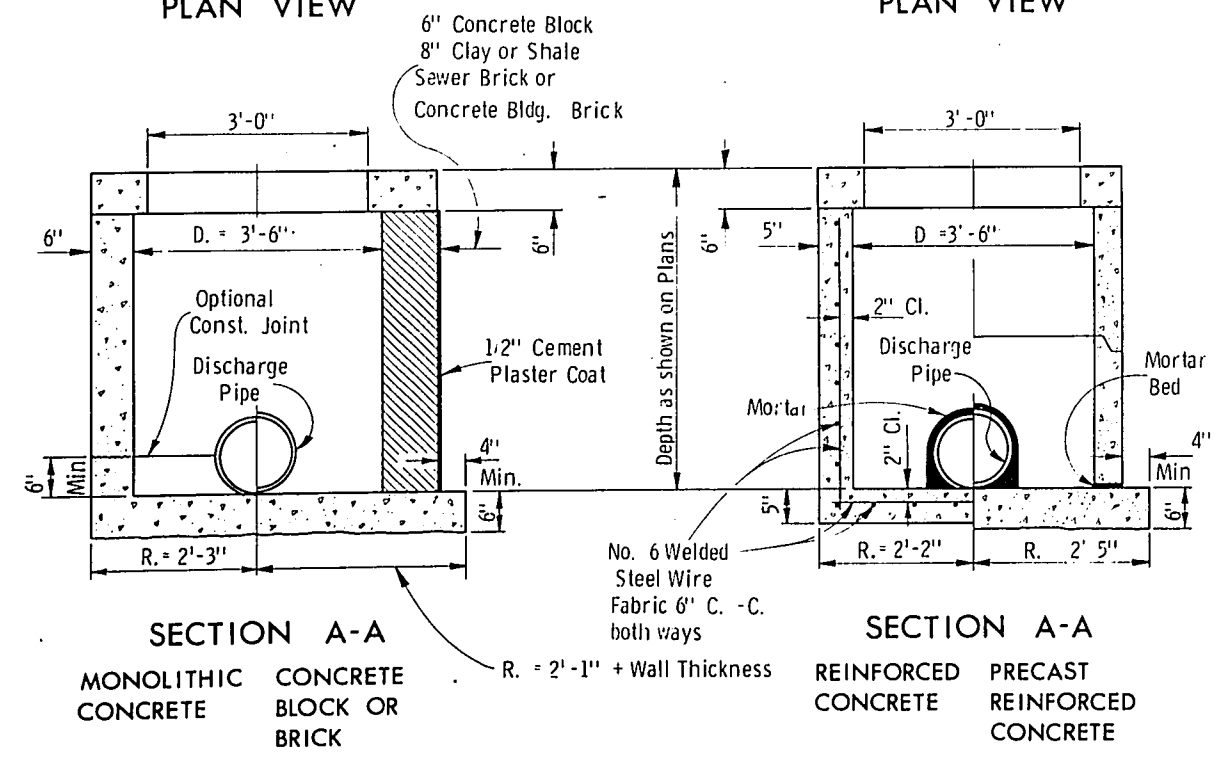
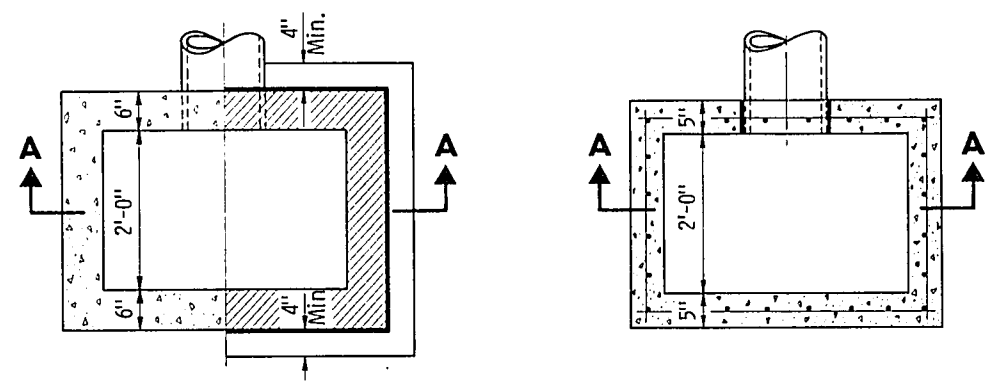
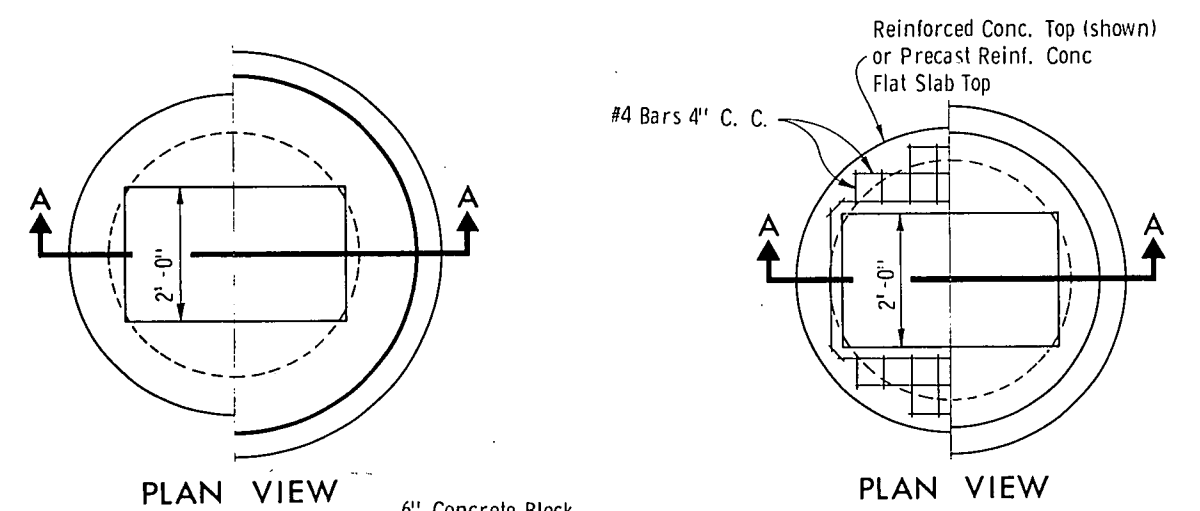
Longitudinal slot type grates may be used ONLY where bicycles are prohibited.

RIGHT GRATE
LEFT GRATE

GENERAL NOTES

1. 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.
2. Detailed drawings for proposed alternate designs for Inlets shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.
3. All Inlets are designated on the Plans as "Inlets, 3-H", etc. This designation is interpreted to mean that the number, or first digit, designates the masonry portion of the structure, and the following letter, designates the type of cover or iron casting to be used therewith to comprise the complete unit "Inlet" in place.
4. All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.
5. Precast Reinforced Bases may be used in lieu of cast-in-place bases. When Precast Bases are used, they shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding material shall be compacted and provide uniform support for the entire area of the base.
6. All Precast Reinforced Concrete Risers, Grade Rings, and Flat Slab Tops shall conform to AASHO Designation M 199. Precast Reinforced Concrete Bases shall conform to the Flat Slab Top requirements of AASHO Designation M 199.
7. Adjustment of the cover to grade may be accomplished by the use of mortar and brick. Maximum adjustment shall be 8 inches.
8. Precast Reinforced Concrete Risers may be placed with tongue or "D" joint ends either up or down.
9. Strike all joints for brick or block construction.

INLET COVER



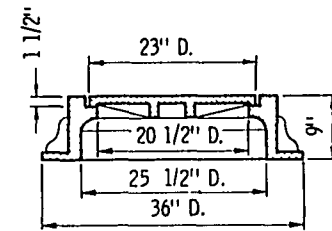
INLETS TYPE 3

INLETS TYPE 3 AND INLET COVER

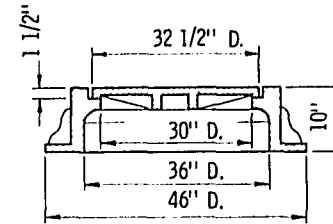
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
DATE 4/25/69
E. J. Byrd
CHIEF DESIGN ENGINEER

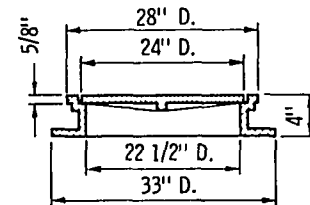
APPROVED:
DATE 4/25/69
W. J. Burmeister
STATE HIGHWAY ENGINEER



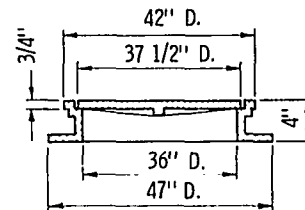
TYPE "J" - (Approximate Weight 400 Lbs.)



TYPE "K" - (Approximate Weight 750 Lbs.)



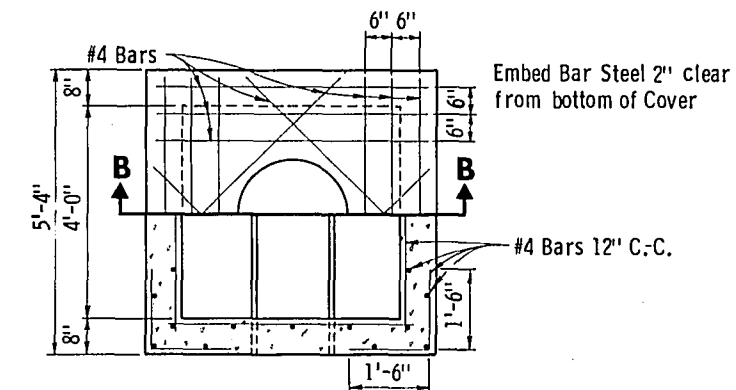
TYPE "L" - (Approximate Weight 210 Lbs.)



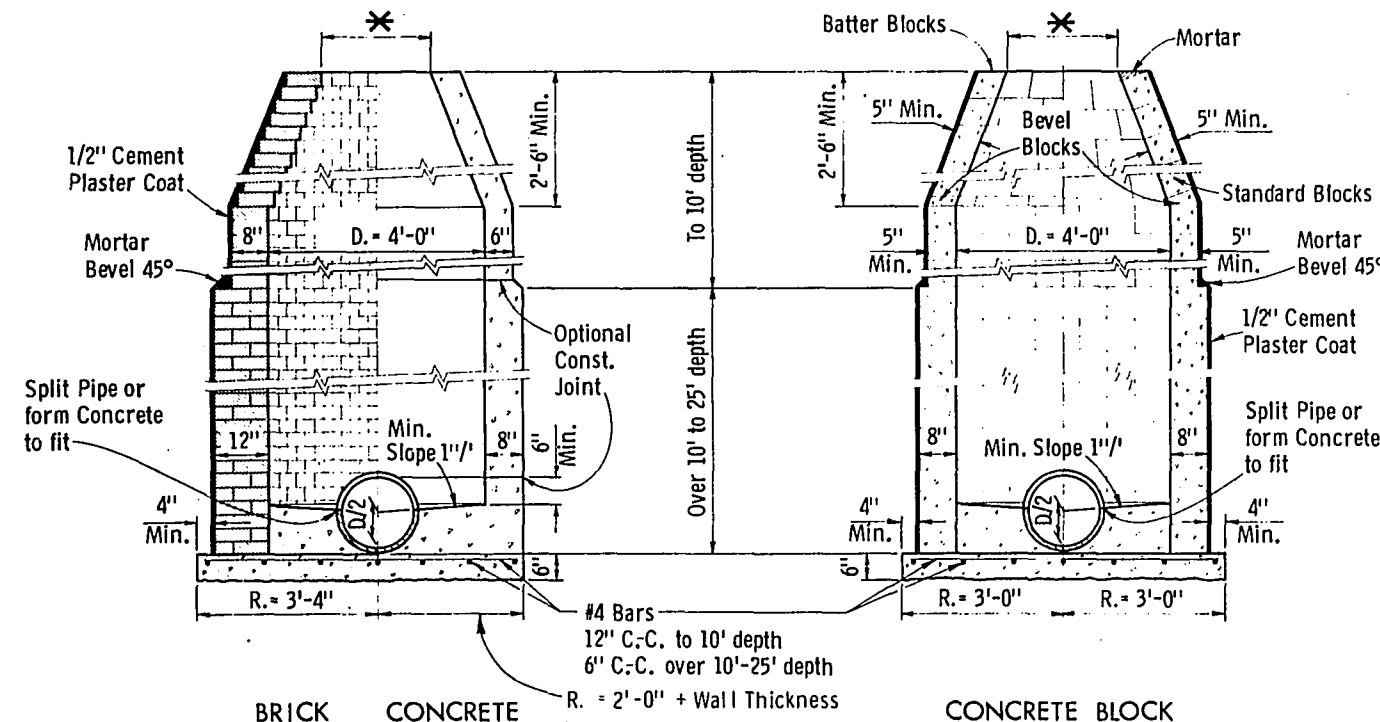
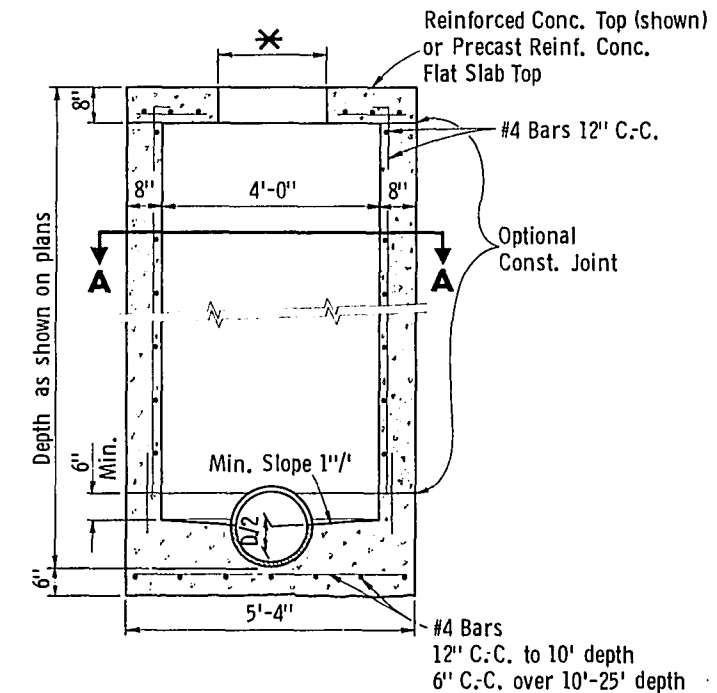
TYPE "M" - (Approximate Weight 475 Lbs.)

MANHOLE COVERS

HALF PLAN VIEW



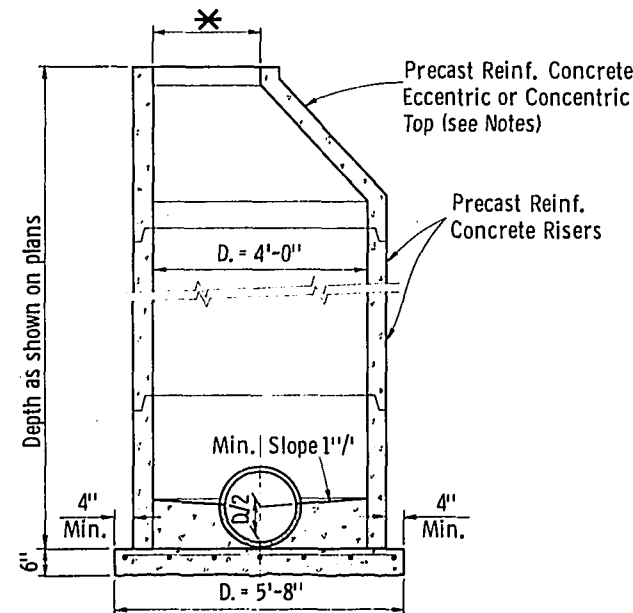
HALF SECTION A-A



BRICK

CONCRETE

CONCRETE BLOCK



PRECAST REINFORCED CONCRETE

SECTION B-B
REINFORCED CONCRETE

MANHOLES TYPE 1

GENERAL NOTES

1. 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.
2. Detailed drawings for proposed alternate designs for Manholes and Manhole Covers shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.
3. All Manholes are designated on the Plans As "Manholes, 1-J", 1-L, etc. This designation is interpreted to mean that the number, or first digit, designates the masonry portion of the structure, and the following letter, designates the type of cover or iron casting to be used therewith to comprise the complete unit "Manhole" in place.
4. All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.
5. Precast Reinforced Bases may be used in lieu of cast-in-place bases. When Precast Bases are used, they shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding material shall be compacted and provide uniform support for the entire area of the base.
6. All Precast Reinforced Concrete Risers, Grade Rings, and Flat Slab Tops shall conform to AASHTO Designation M 199. Precast Reinforced Concrete Bases shall conform to the Flat Slab Top requirements of AASHTO Designation M 199.
7. Adjustment of the cover to grade may be accomplished by the use of mortar and brick or by a Precast Reinforced Concrete Grade Ring. Maximum adjustment shall be 8 inches.
8. Alternate Precast Reinforced Concrete Cone Tops (Eccentric or Concentric) may be used on brick, concrete, or concrete block Manholes. Attachment of the Precast Reinforced Concrete Cone Top shall be made on a bed of mortar.
9. Eccentric Cone Tops may be used on all Manholes, and Concentric Cone Tops shall be used only on Manholes 5 feet or less in depth, unless otherwise directed by the Engineer.
10. Precast Reinforced Concrete Risers may be placed with tongue or "D" joint ends either up or down.
11. Steps shall be installed in all Manholes over 5 feet in depth. Steps shall be installed 5 inches clear from the wall at the center of the step. Steps used in the work shall conform to the requirements of the Standard Specifications for Gray Iron Castings, ASTM Designation A48. Steps shall have a minimum width of 9 inches out to out of casting.
12. All Manhole Covers which are placed in vehicular traffic areas shall be "Non-Rocking" type so as to prevent all cover noise under traffic.
13. Strike all joints for brick or block construction.

* Use 2'-0" diameter opening with Type "J" and "L" Manhole Covers, or 3'-0" diameter opening with Type "K" and "M" Manhole Covers.

MANHOLES TYPE 1 & MANHOLE COVERS

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
DATE 4/25/69
APPROVED:
DATE 4/25/69

E. J. Byskit
CHIEF DESIGN ENGINEER

H. J. Summerville
STATE HIGHWAY ENGINEER

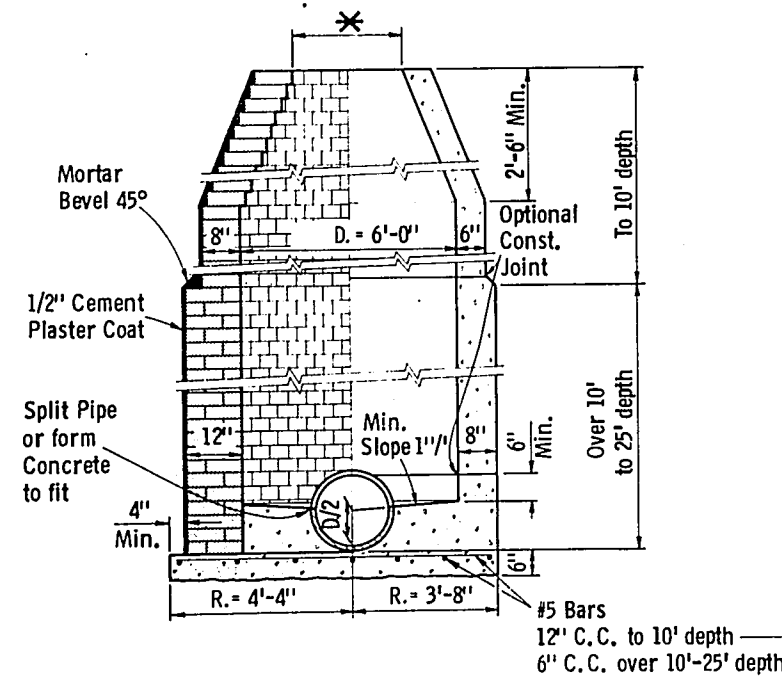
TYPE "J" - (Approximate Weight 400 Lbs.)

TYPE "K" - (Approximate Weight 750 Lbs.)

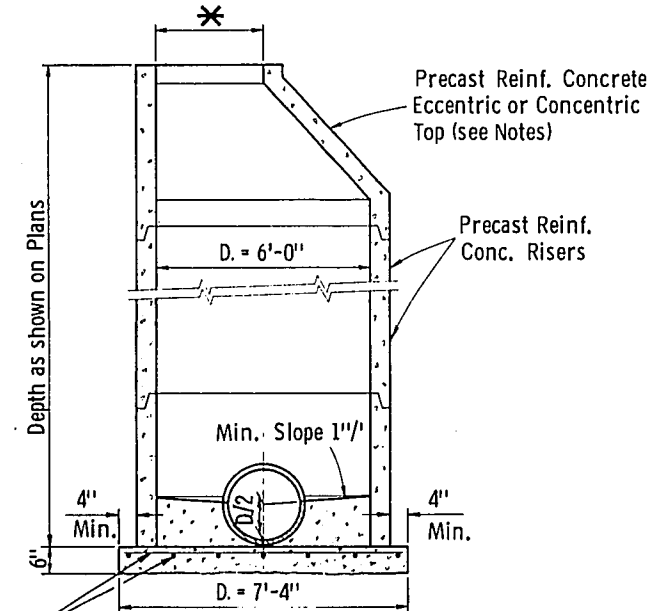
TYPE "L"- (Approximate Weight 210 Lbs.)

TYPE "M"- (Approximate Weight 475 Lbs.)

MANHOLE COVERS

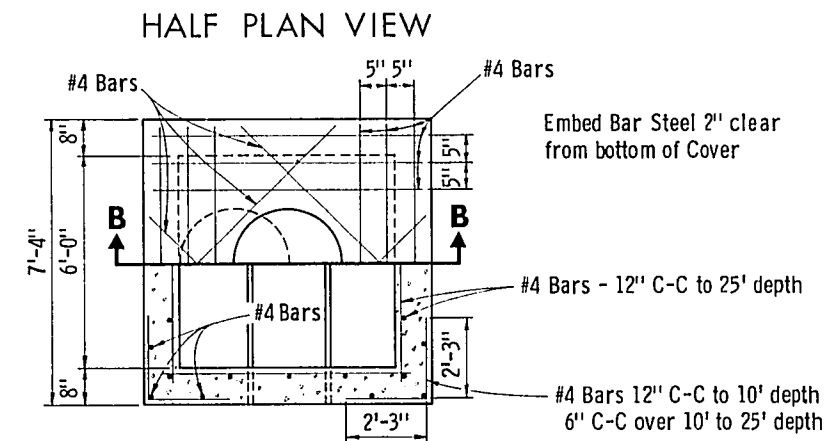


BRICK CONCRETE

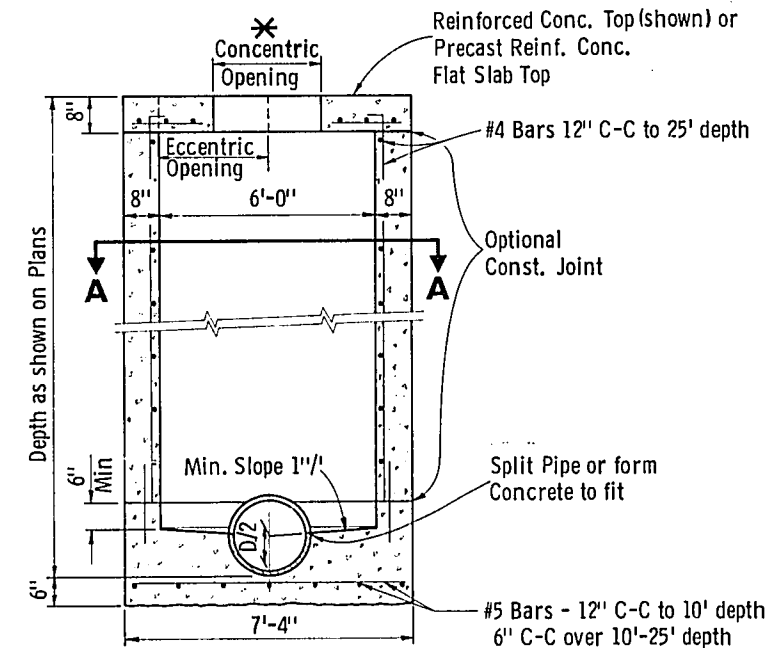


PRECAST REINFORCED CONCRETE

MANHOLES TYPE 3



HALF SECTION A-A



SECTION B-B
REINFORCED CONCRETE

GENERAL NOTES

1. 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.
 2. Detailed drawings for proposed alternate designs for Manholes and Manhole Covers shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.
 3. All Manholes are designated on the Plans As "Manholes 3-J", 3-L, etc. This designation is interpreted to mean that the number, or first digit, designates the masonry portion of the structure, and the following letter, designates the type of cover or iron casting to be used therewith to comprise the complete unit "Manhole" in place.
 4. All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.
 5. Precast Reinforced Bases may be used in lieu of cast-in-place bases. When Precast Bases are used, they shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding material shall be compacted and provide uniform support for the entire area of the base.
 6. All Precast Reinforced Concrete Risers, Grade Rings, and Flat Slab Tops shall conform to AASHTO Designation M 199. Precast Reinforced Concrete Bases shall conform to the Flat Slab Top requirements of AASHTO Designation M 199.
 7. Adjustment of the cover to grade may be accomplished by the use of mortar and brick or by a Precast Reinforced Concrete Grade Ring. Maximum adjustment shall be 8 inches.
 8. Alternate Precast Reinforced Concrete Cone Tops (Eccentric or Concentric) may be used on brick, concrete, or concrete block Manholes. Attachment of the Precast Reinforced Concrete Cone Top shall be made on a bed of mortar.
 9. Eccentric Cone Tops may be used on all Manholes, and Concentric Cone Tops shall be used only on Manholes 5 feet or less in depth, unless otherwise directed by the Engineer.
 10. Precast Reinforced Concrete Risers may be placed with tongue or "D" joint ends either up or down.
 11. Steps shall be installed in all Manholes over 5 feet in depth. Steps shall be installed 5 inches clear from the wall at the center of the step. Steps used in the work shall conform to the requirements of the Standard Specifications for Gray Iron Castings, ASTM Designation A48. Steps shall have a minimum width of 9 inches out to out of casting.
 12. All Manhole Covers which are placed in vehicular traffic areas shall be "Non-Rocking" type so as to prevent all cover noise under traffic.
 13. Strike all joints for brick or block construction.
- ✱ Use 2'-0" diameter opening with Type "J" and "L" Manhole Covers, or 3'-0" diameter opening with Type "K" and "M" Manhole Covers.

MANHOLES TYPE 3 & MANHOLE COVERS

State of Wisconsin
Department of Transportation
Division of Highways

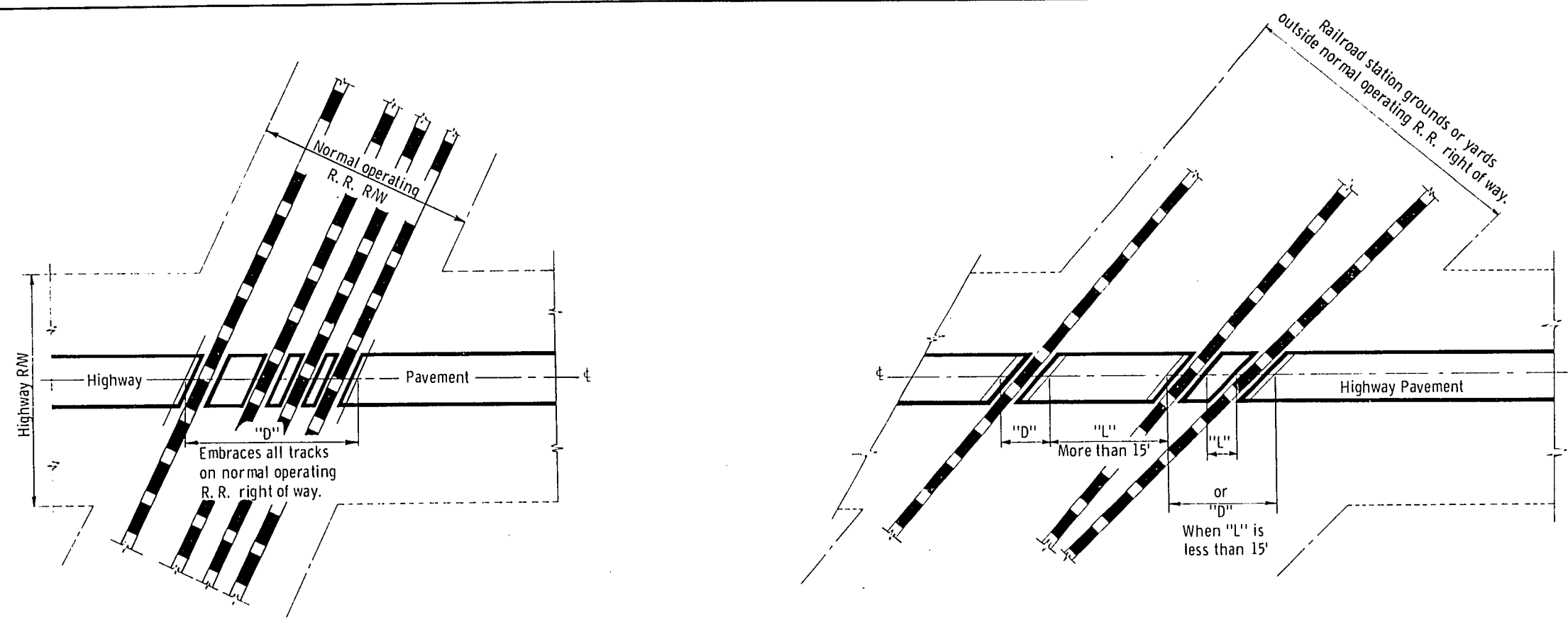
RECOMMENDED FOR APPROVAL: 4/25/69
DATE

E. J. Byrkit
CHIEF DESIGN ENGINEER

APPROVED: 4/25/69
DATE

A. J. Summeister
STATE HIGHWAY ENGINEER

14.10-48

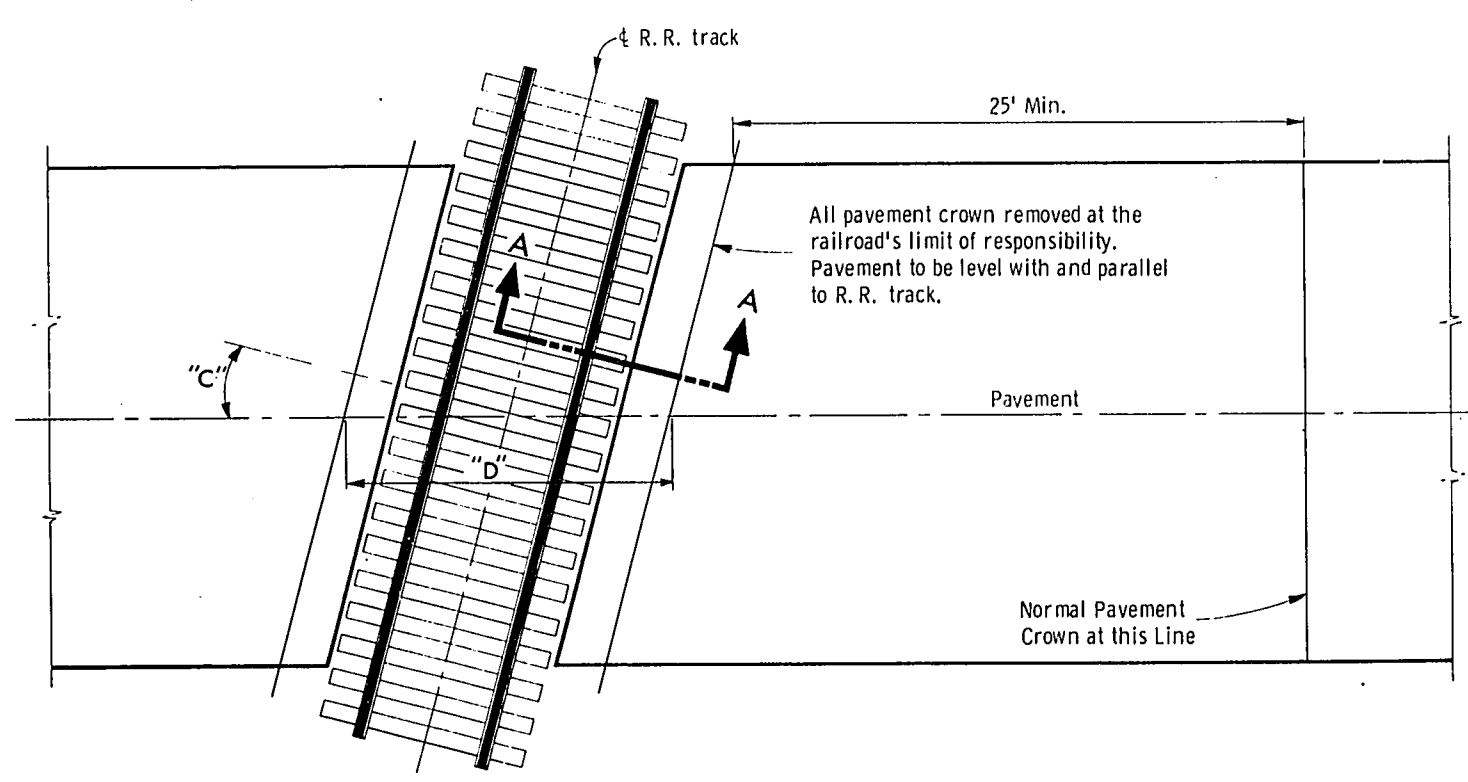


**TYPICAL TYPES OF RAILROAD GRADE CROSSINGS
SHOWING THE RAILROAD'S LIMIT OF RESPONSIBILITY
AND MEASUREMENT DETAILS**

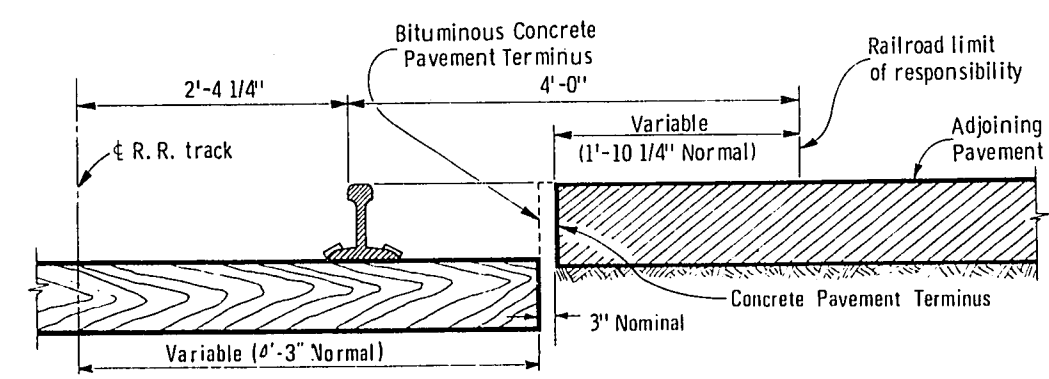
GENERAL NOTES

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.

"D" = Exception to net length of Δ . Paving or surfacing and shoulder material within limits designated by "D" to be at expense of railroad company. Trackage to industrial sites to be treated same as for trackage to R.R. station grounds or yards outside of normal operating R/W.



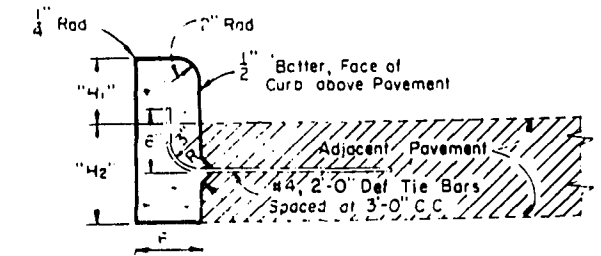
NOTE: $D = \frac{12.71}{\cos. "C"}$



SECTION "A-A"

PAVEMENT DETAILS FOR RAILROAD APPROACH	
State of Wisconsin Department of Transportation Division of Highways	
RECOMMENDED FOR APPROVAL: DATE 3/13/69	CHIEF DESIGN ENGINEER <i>E. J. Rykbit</i>
APPROVED: DATE 3/27/69	STATE HIGHWAY ENGINEER <i>A. J. Sumner</i>

**RAILROAD APPROACH
CONSTRUCTION DETAILS**



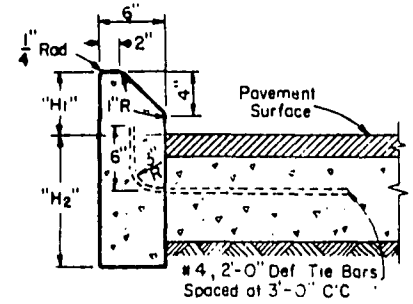
Tie Bar recess positioned in reverse when Concrete Curb is constructed first

"H₁" = 9" max and 3 1/2" min. and shall be 6" unless otherwise shown on the plans

"H₂" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted)

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB



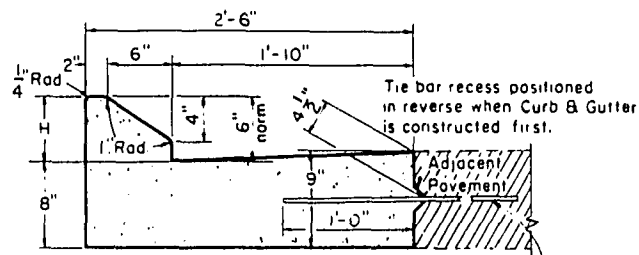
"H₁" = 9" Max and 4" min and shall be 6" unless otherwise shown on plans

"H₂" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted)

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

CONCRETE CURB

(Mountable Type)



"H₁" = 9" max and 4" min B shall be 6" unless otherwise shown on the plans

#4, 2x0" Def Tie Bars or alternate Bolt Type instal. may be used, spaced at 3-0" C.C

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

CONCRETE CURB AND GUTTER

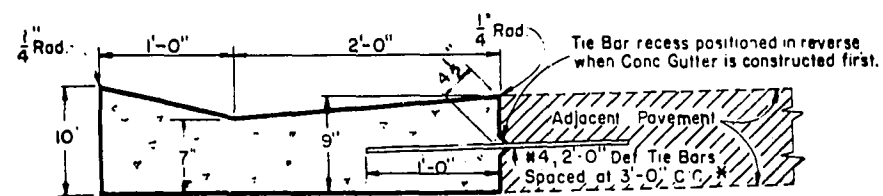
(Mountable Type)

GENERAL NOTES

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

JOINTS -

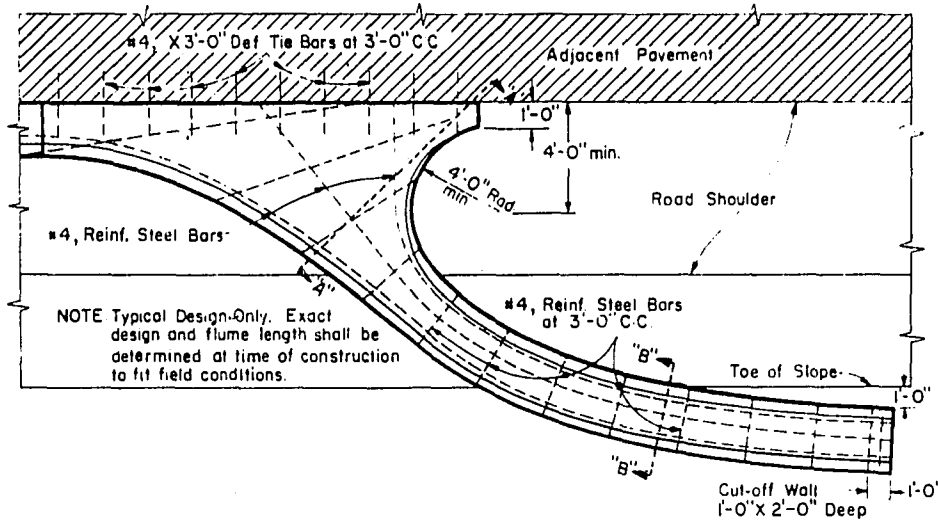
Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.



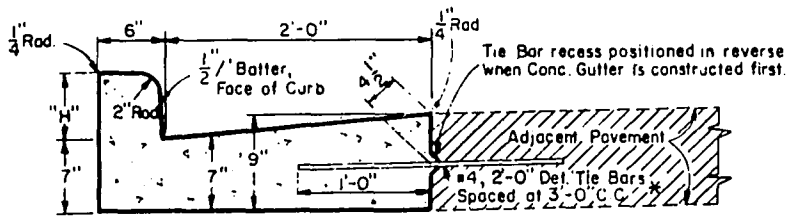
* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE GUTTER



NOTE Typical Design-Only. Exact design and flume length shall be determined at time of construction to fit field conditions.



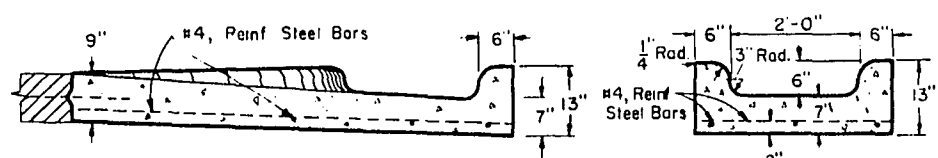
"H" = 9" Max., 3 1/2" Min. and shall be 6" unless otherwise shown on the plans

* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB AND GUTTER

(Barrier Type)



SECTION "A-A"

SECTION "B-B"

CONCRETE INLET OR DISCHARGE FOR CURB AND GUTTER SURFACE DRAIN

CONCRETE CURB, CONCRETE GUTTER
CONCRETE CURB AND GUTTER AND
CONCRETE SURFACE DRAINS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 2-5-63

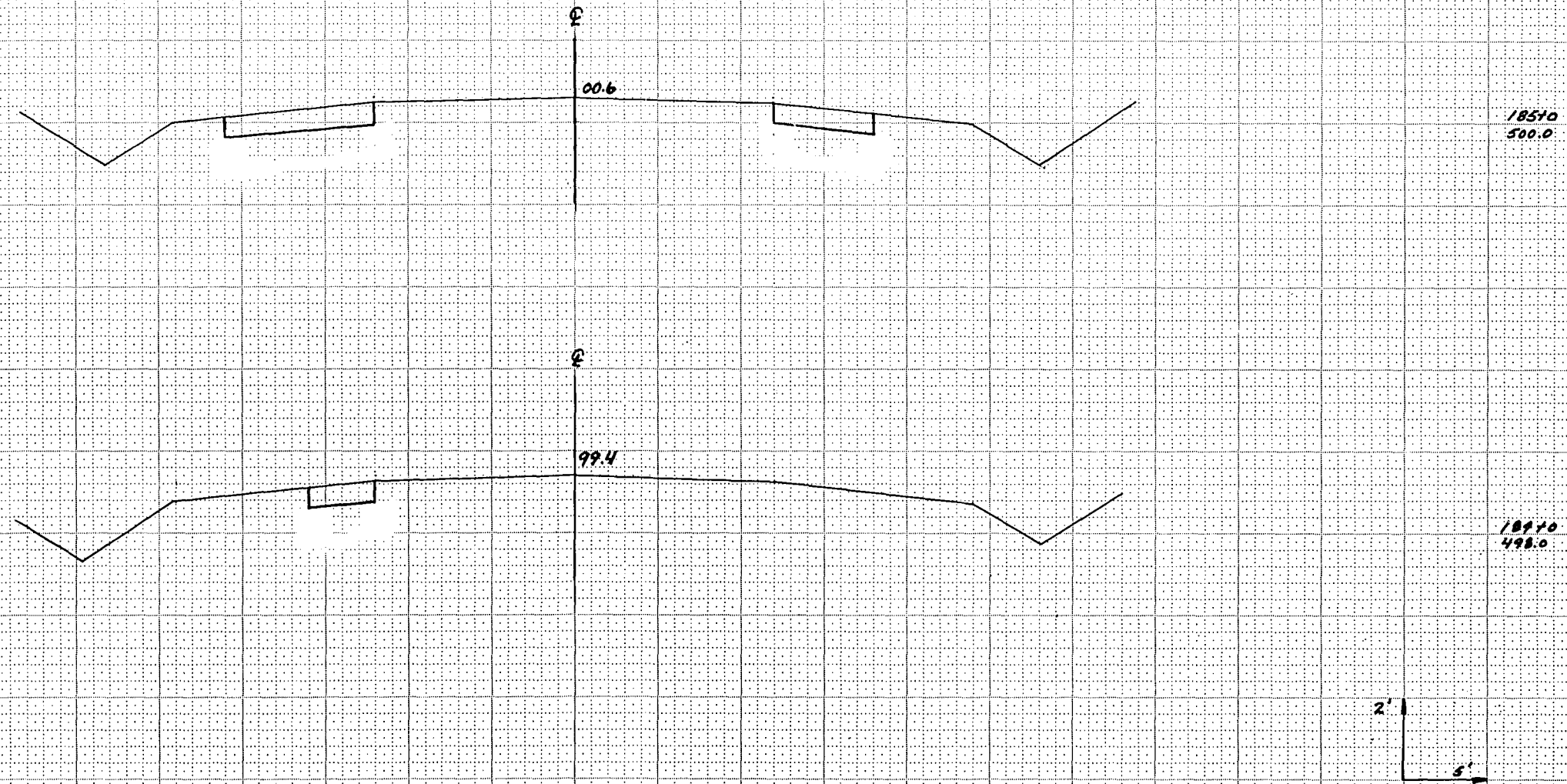
APPROVED:

DATE 2/6/63

J. S. Piff
ENGINEER OF DESIGN

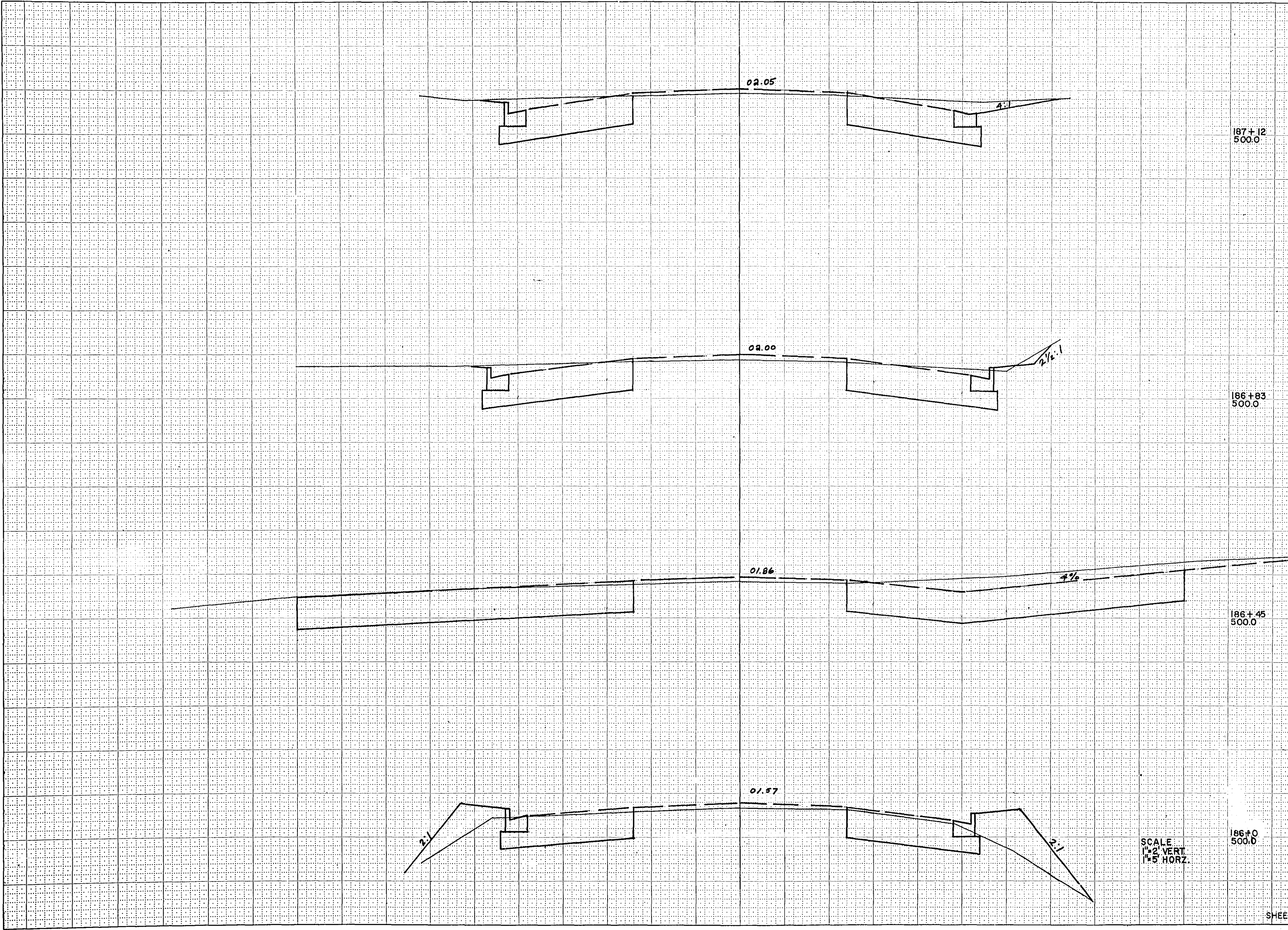
E. C. Rottiers
STATE HIGHWAY ENGINEER

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	15	48

[illegible]

100' 1/4" = 100.0'

100' 1/4" = 100.0'

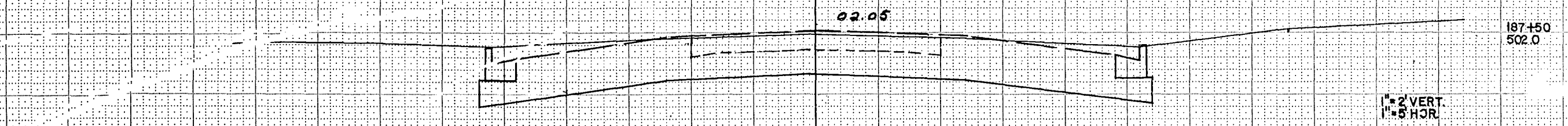
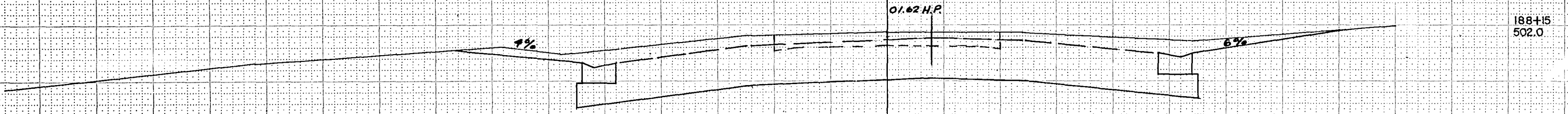
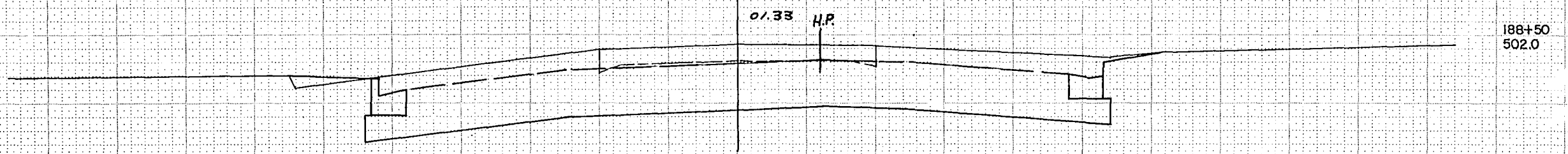


B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	16	48

STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNC.	FILL
187+12			
186+83			
186+45			
186			
186+45	109		22
186+83	100		0
187+12	50		0
SHEET TOTAL		259	22

SCALE
1" = 2' VERT.
1" = 5' HORZ.

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	17	48

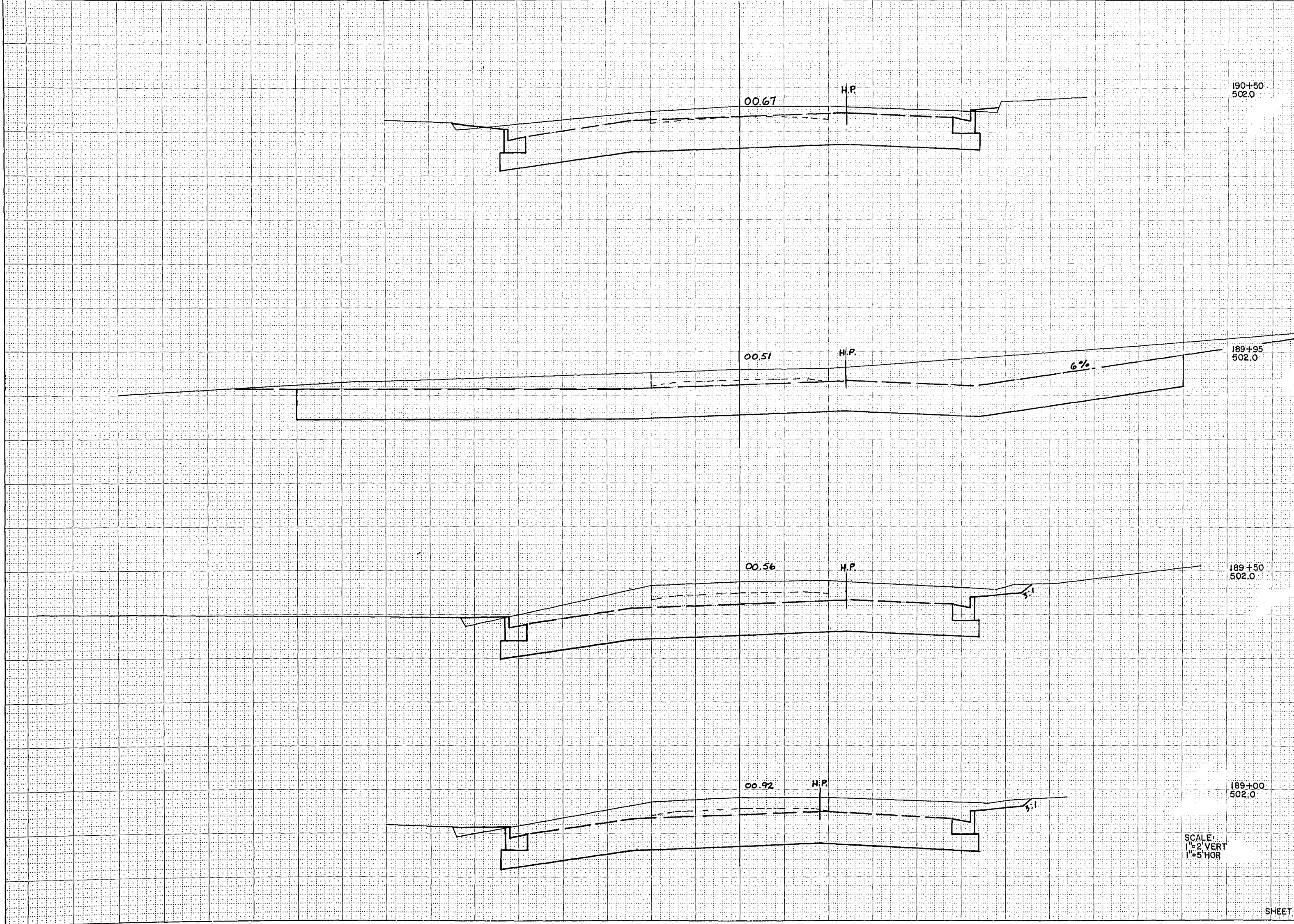
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NO. 1
DATE CHECKED

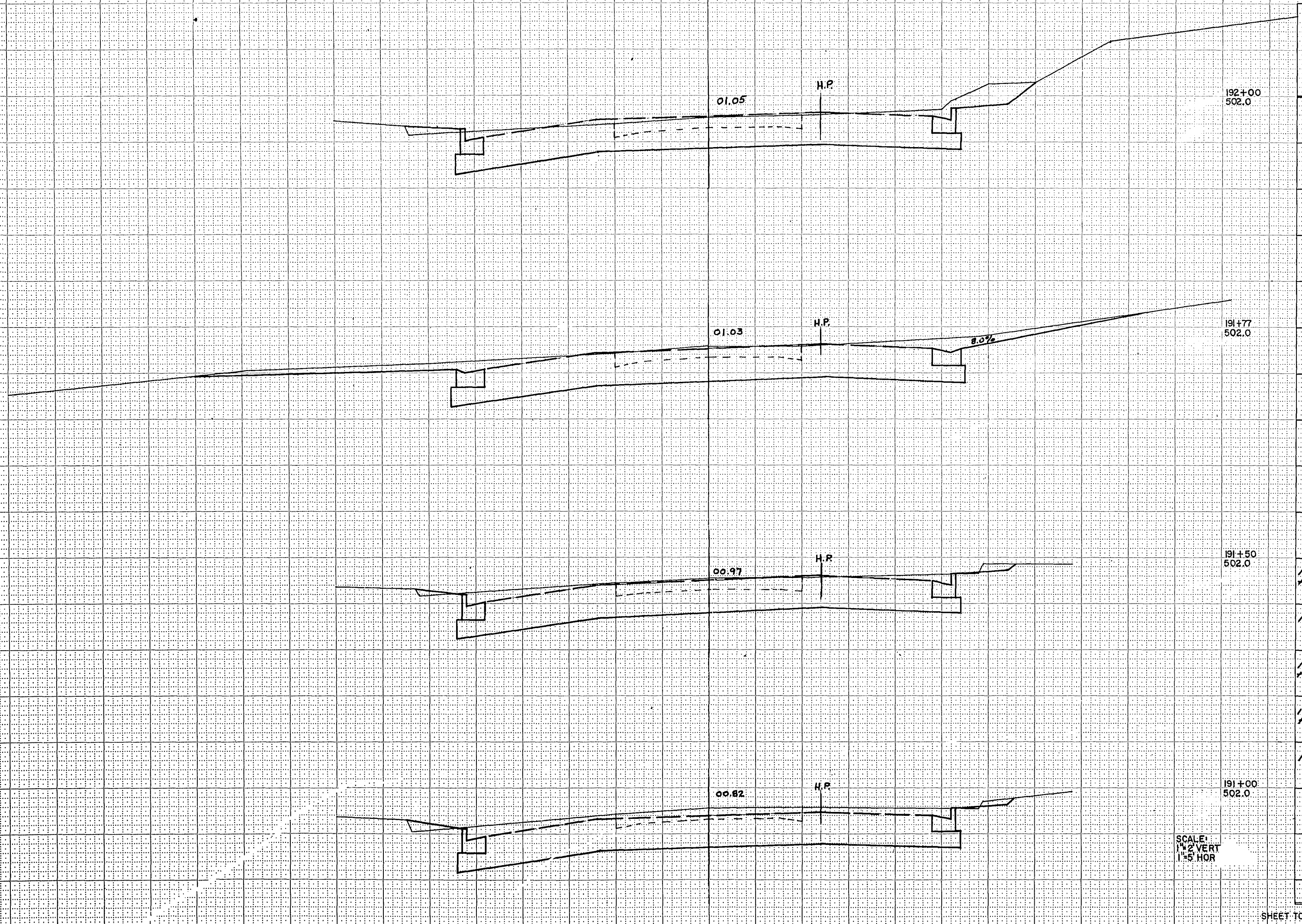
NO. 2
DATE CHECKED

B.P. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	18	48

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		WING			
190+50					
189+95					
189+50					
189+50	170				2
189+50	191				4
189+50	220				1
189+50	243				1
189+00					
SHEET TOTAL		29			8



BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	19	48

[illegible]

SCALE:
1"=2' VERT
1"=5' HOR

SHEET TOTAL

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

SURVEY	PLOTTED
NOTE BOOK	TEMPLATE
	AREAS
NO.	AREAS CHECKED

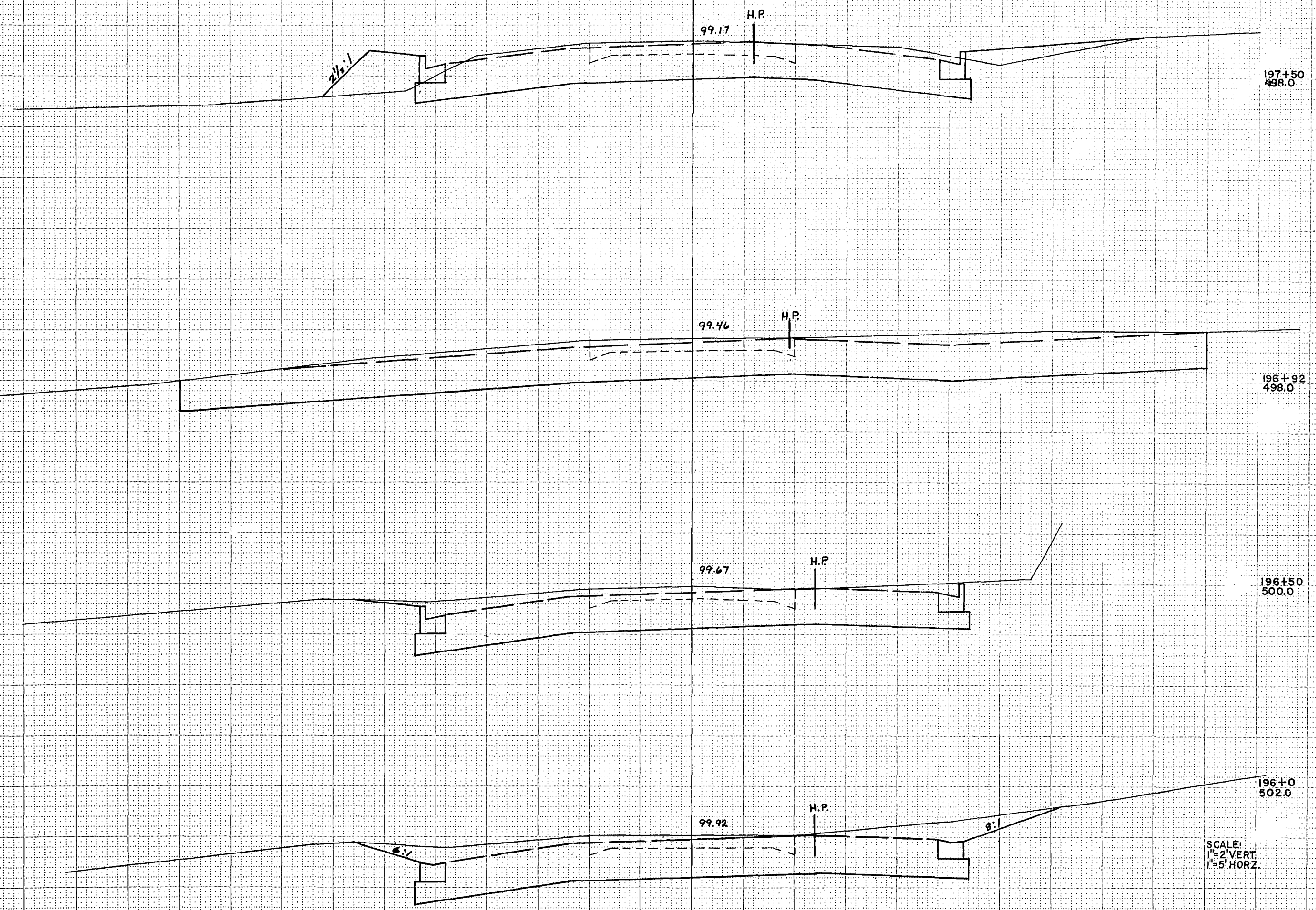
SURVEY	PLOTTED	9-10	10-70
NOTE BOOK	TEMPLATE	6-6	11-70
	AREAS	9-17	9-71
NO. 6-6	AREAS CHECKED	8-8	9-71

2

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	22	48

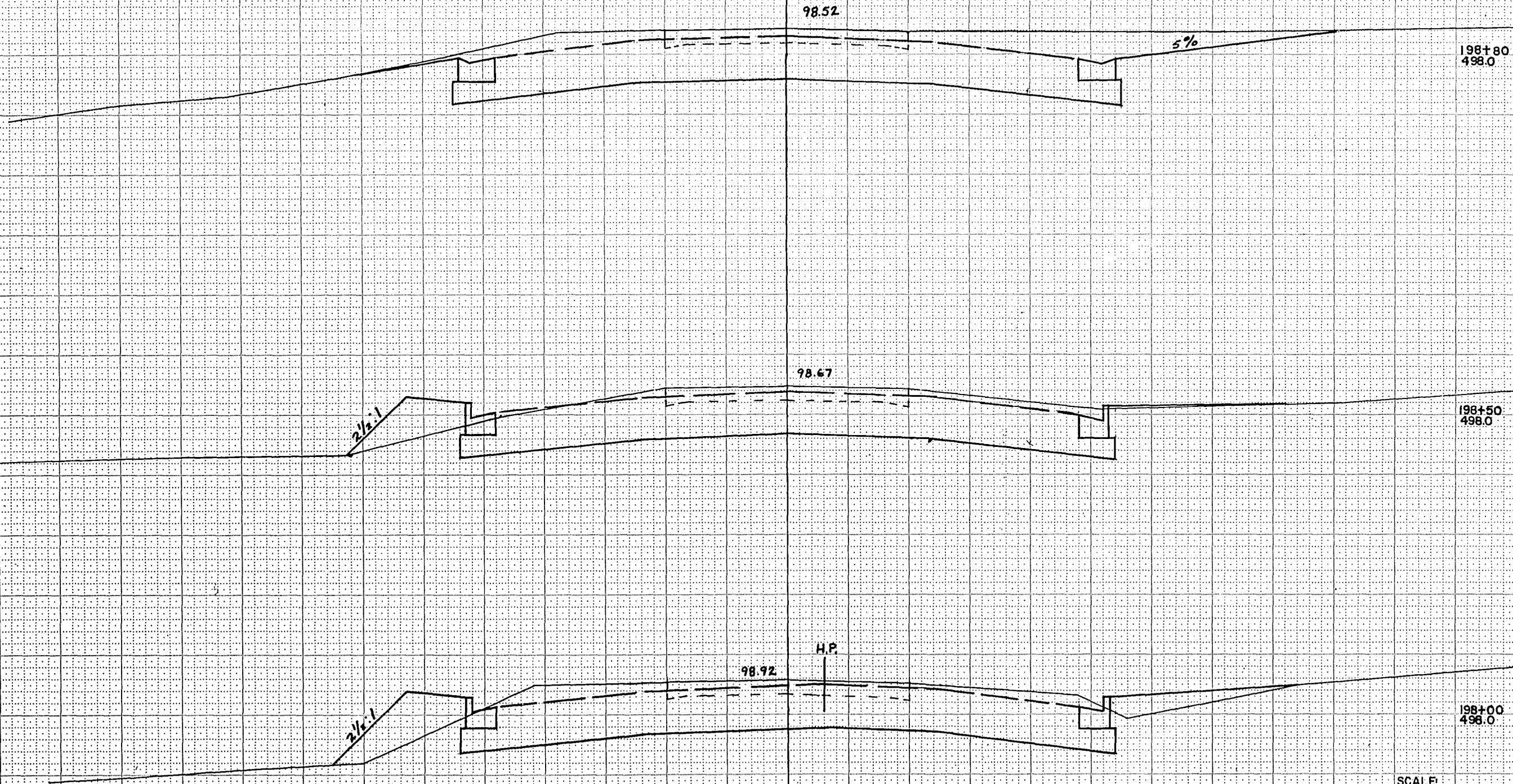
NO. 6.6. 1/2" VERT. 1/2" HORZ.

NO. 6.6. 1/2" VERT. 1/2" HORZ.



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC.			
195+50					
196		163			0
196		144			0
196+50					
196		137			0
196+92					
197		181			20
197+50					
SHEET TOTAL		625			20

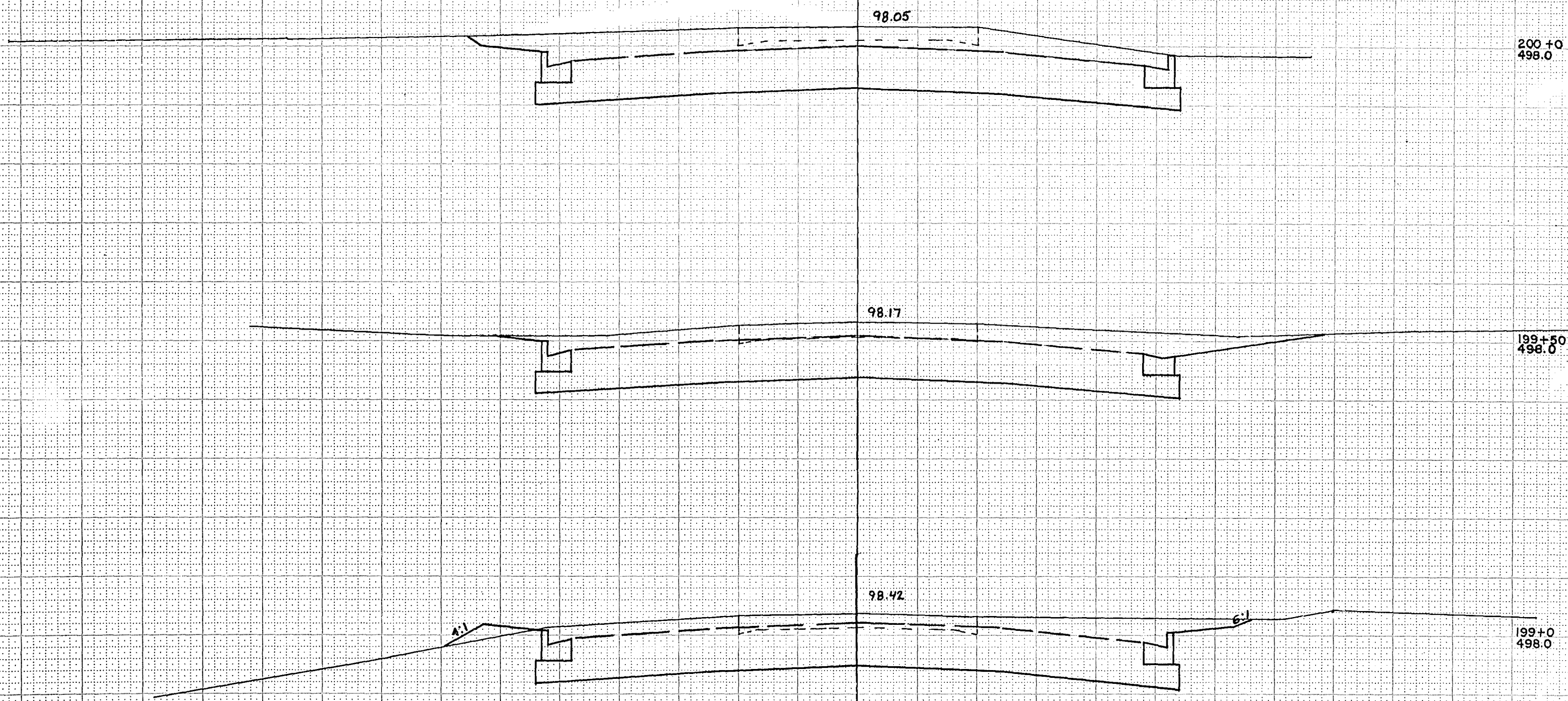
BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	23	48

[illegible]

NO	SURVEY	PLOTTED	
		TEMPLATE	
		AREAS	
		AREAS CHECKED	

SURVEY	PLOTTED	S. L. T.	11-70
NOTE BOOK	TEMPLATE	S. L. T.	11-70
	AREAS	D. J.	1-71
NO. 6.6.	AREAS CHECKED	S. L. T.	1-71

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	24	48

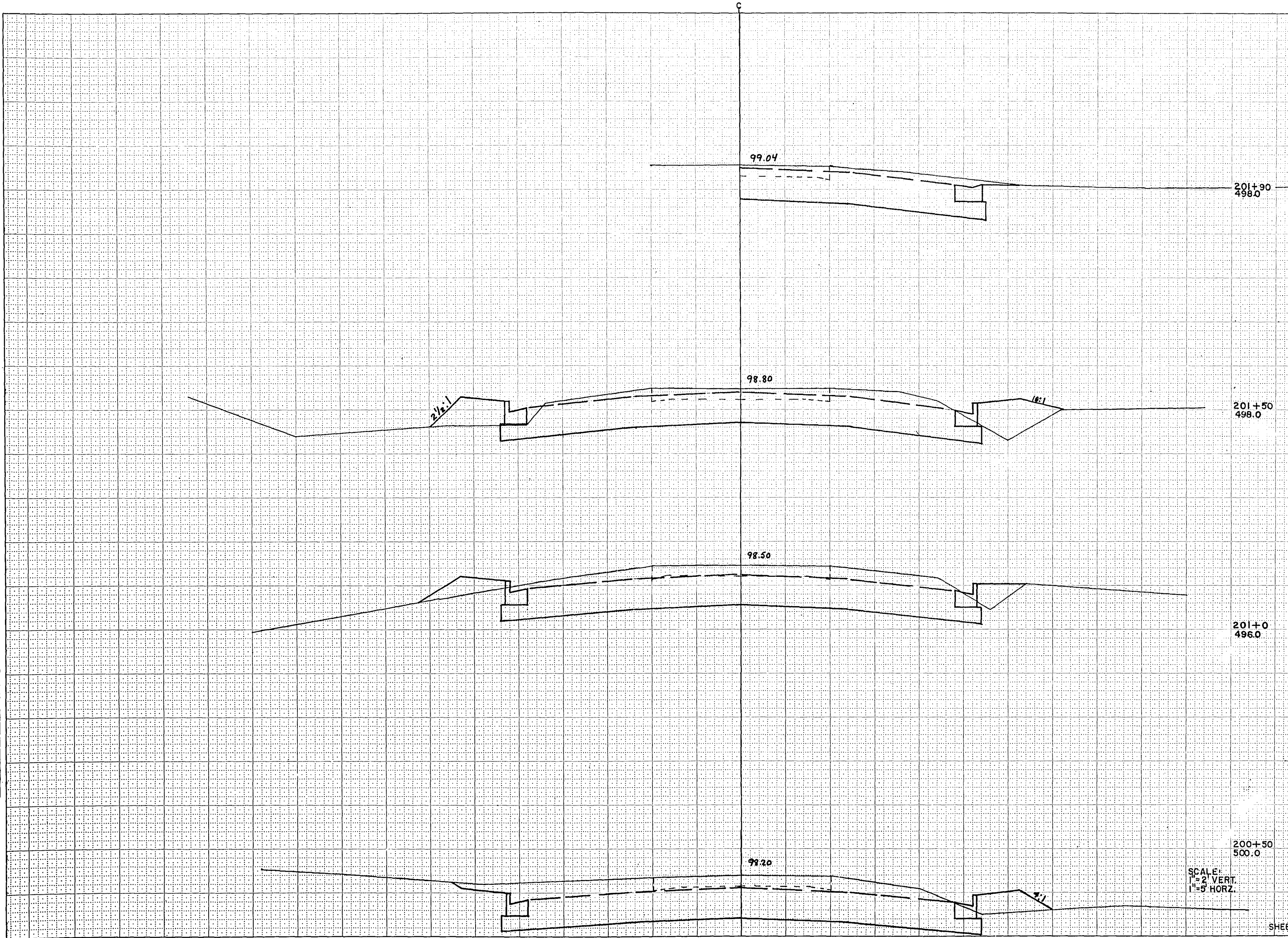
[illegible]

SCALE:
1" = 2' VERT.
1" = 5' HORIZ.

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	25	48

SURVEY	DATE	11-70
NOTE BOOK	NO.	6
AREA	MEAS. CHECKED	

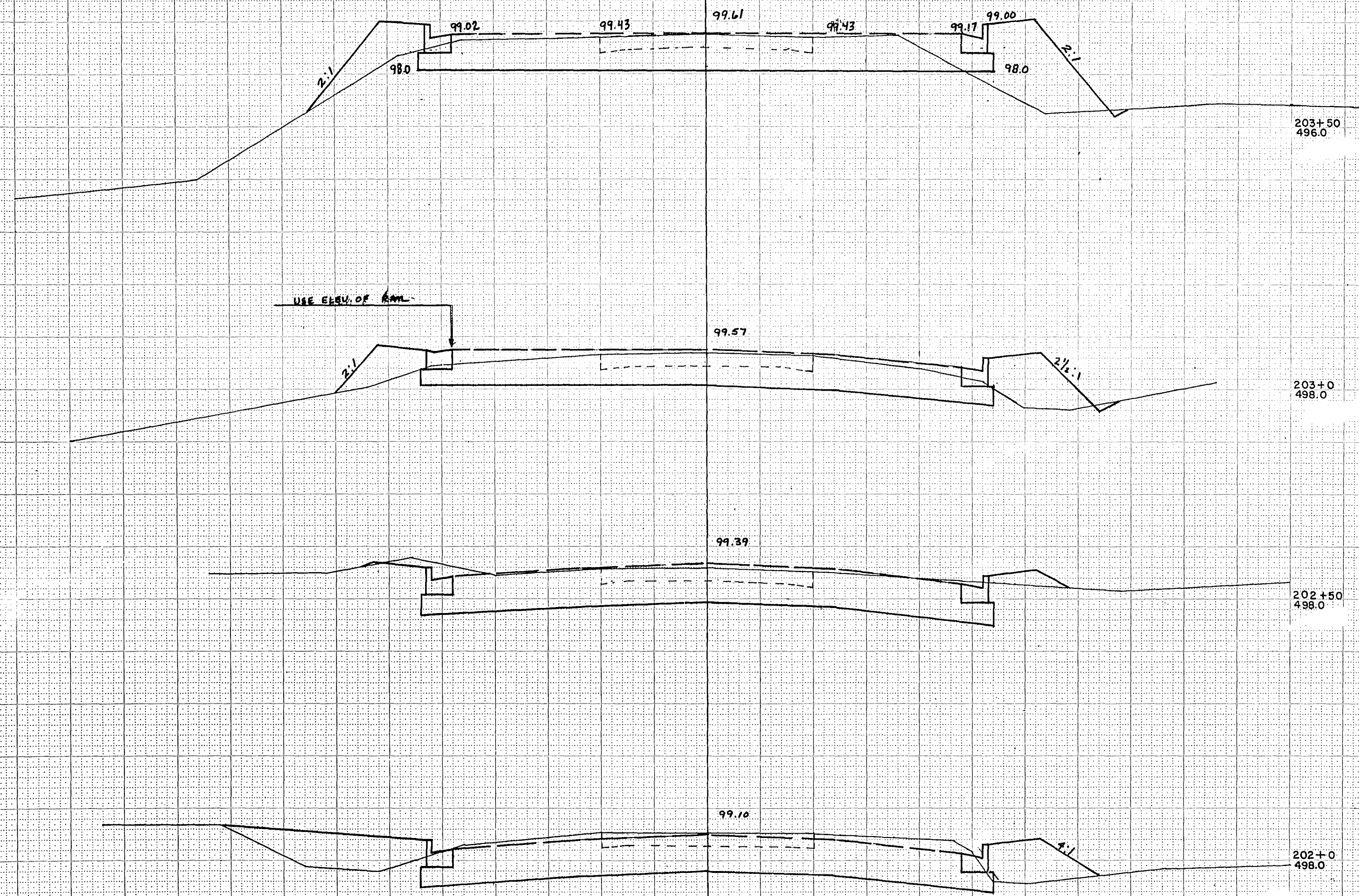
SURVEY	DATE	11-70
NOTE BOOK	NO.	6
AREA	MEAS. CHECKED	



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC.			
201+90					
201+50					
201+0					
200					
200+50					
201					
201+50					
201+90					
200+50					
SHEET TOTAL		57.1			6.4

SCALE:
1"=2' VERT.
1"=5' HORZ.

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	26	48

[illegible]

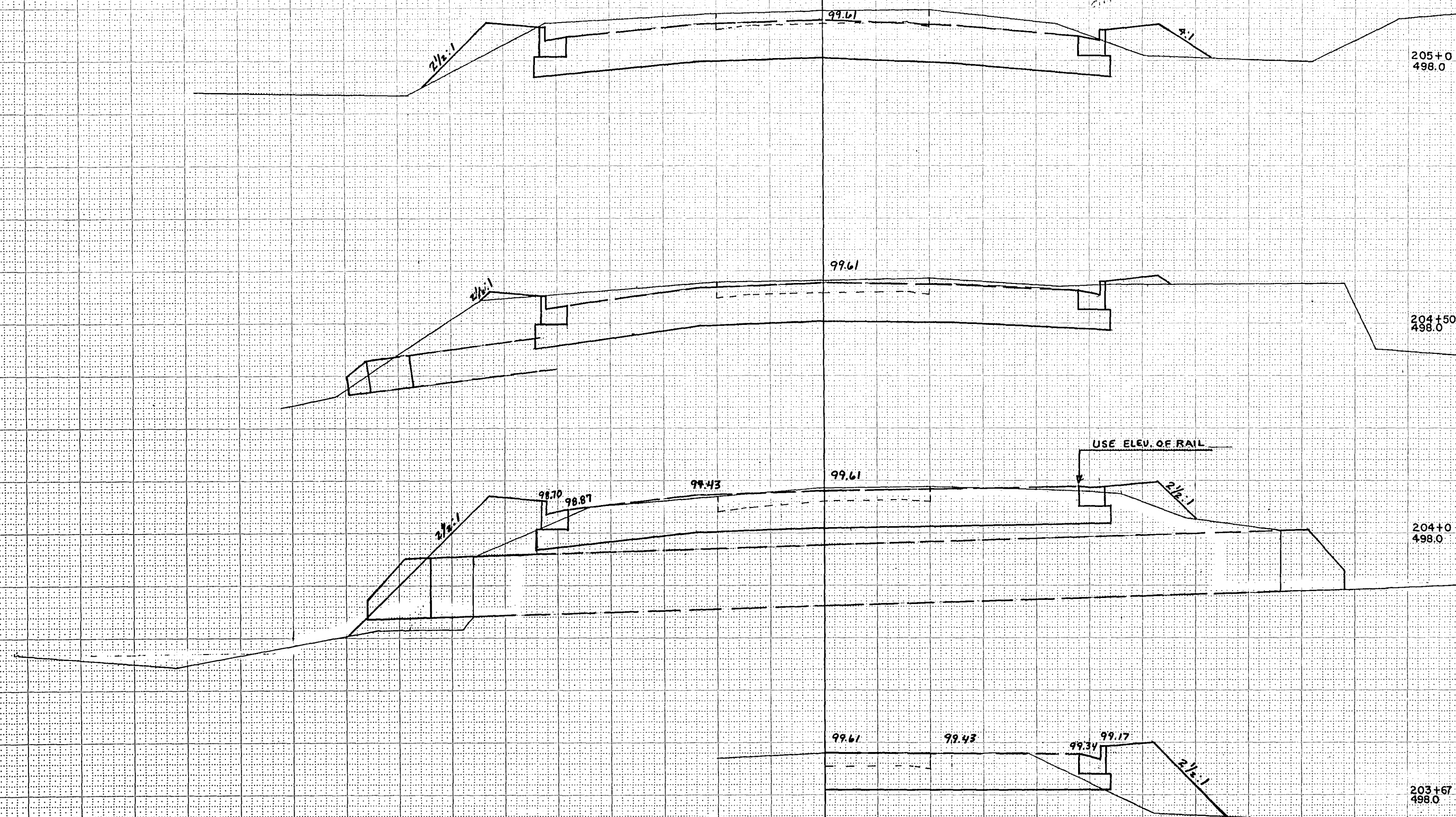
SCALE:
1" = 2' VERT.
1" = 5' HORZ.

SURVEY	DATE	PLOTTED	DATE
NO. 1	1/1-70	1/1-70	1/1-70
NOTE BOOK	1/1-70	1/1-70	1/1-70
NO. 2	1/1-70	1/1-70	1/1-70

SURVEY	DATE	PLOTTED	DATE
NO. 1	1/1-70	1/1-70	1/1-70
NOTE BOOK	1/1-70	1/1-70	1/1-70
NO. 2	1/1-70	1/1-70	1/1-70

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	1184-1-71	27	48

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		0.00			
205+0					
204+50					
204+0					
203+50					
203+67					
204+150					
204+150					
205					
SHEET TOTAL		376			176



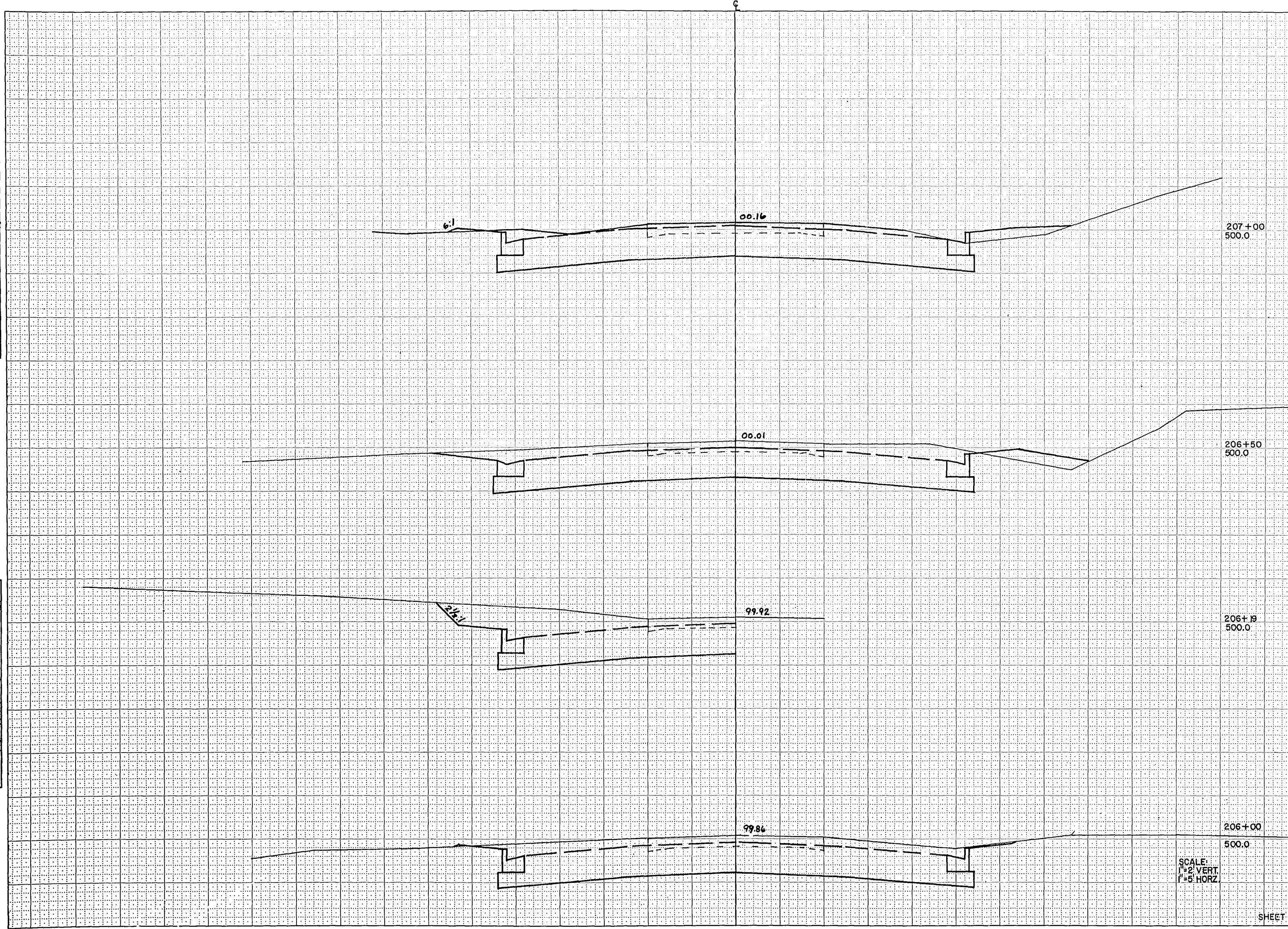
SCALE:
1"=2' VERT.
1"=5' HORZ.

SURVEY
NOTE BOOK
NO. 1

SURVEY
NOTE BOOK
NO. 1

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	1184-1-71	29	48

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC.			
205+50	500.0				
206+50	500.0				
206+19	500.0				
206+50	500.0				
207					
SHEET TOTAL		418			22



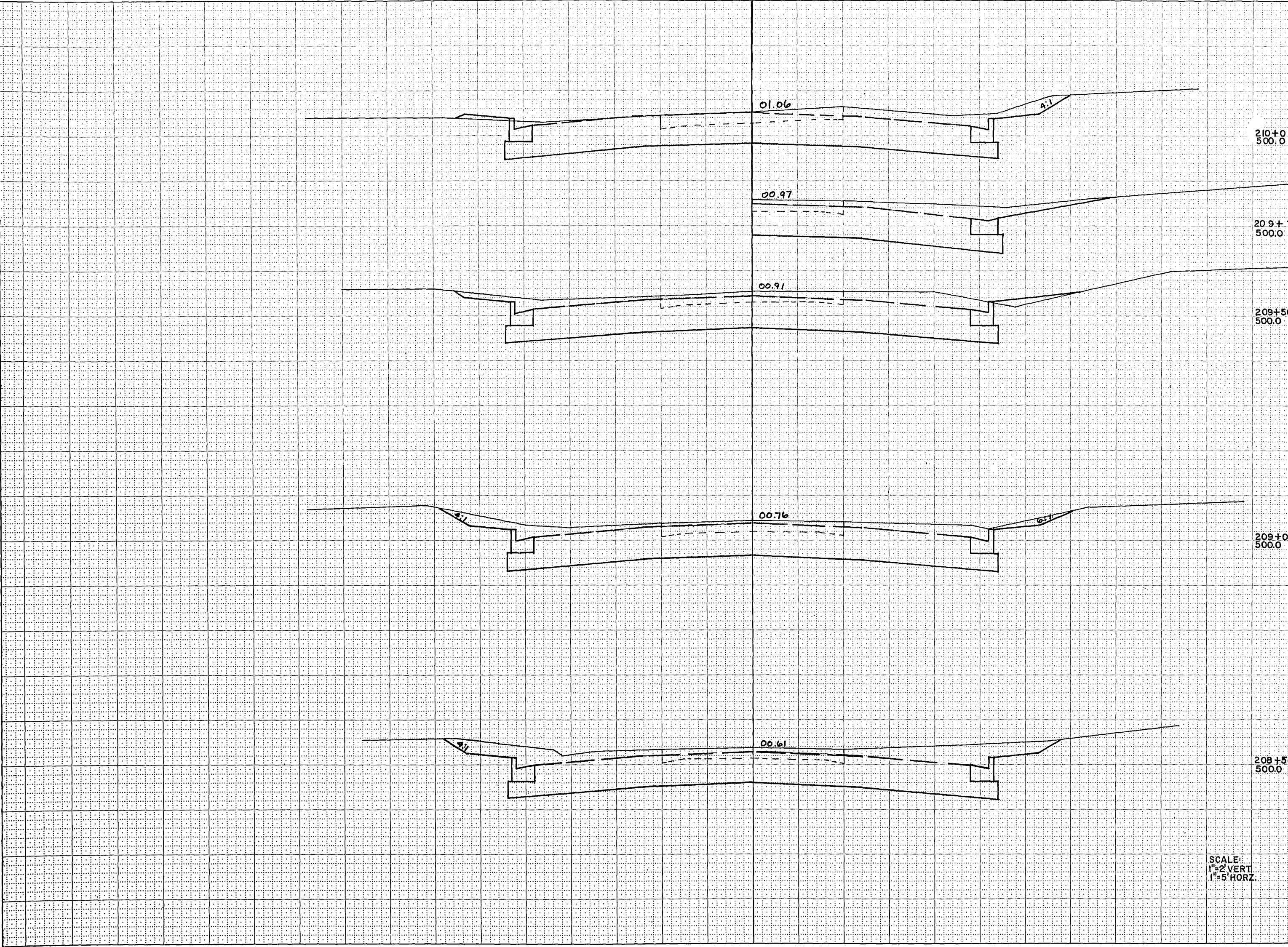
SCALE:
1"=2' VERT.
1"=5' HORIZ.

SURVEY
DRAWN BY
CHECKED BY
DATE
NO.

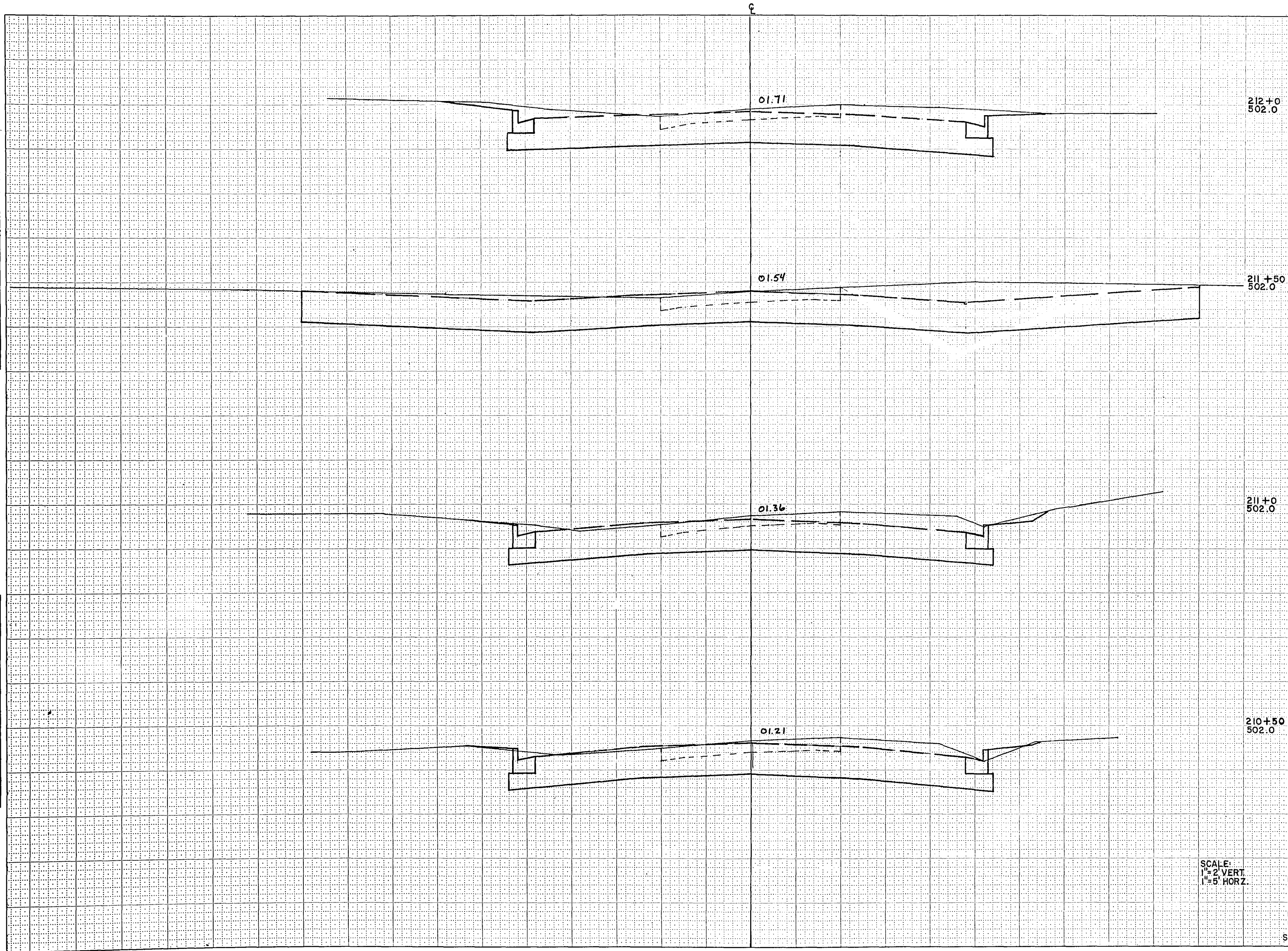
SURVEY
DRAWN BY
CHECKED BY
DATE
NO.

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	1184-1-71	31	48
WIS.			

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC.			
210+0	500.0				
209+70	500.0				
209+50	500.0				
209+0	500.0				
208+27.5					
208+50					
209					
209+50					
209+70					
210					
SHEET TOTAL		479			4

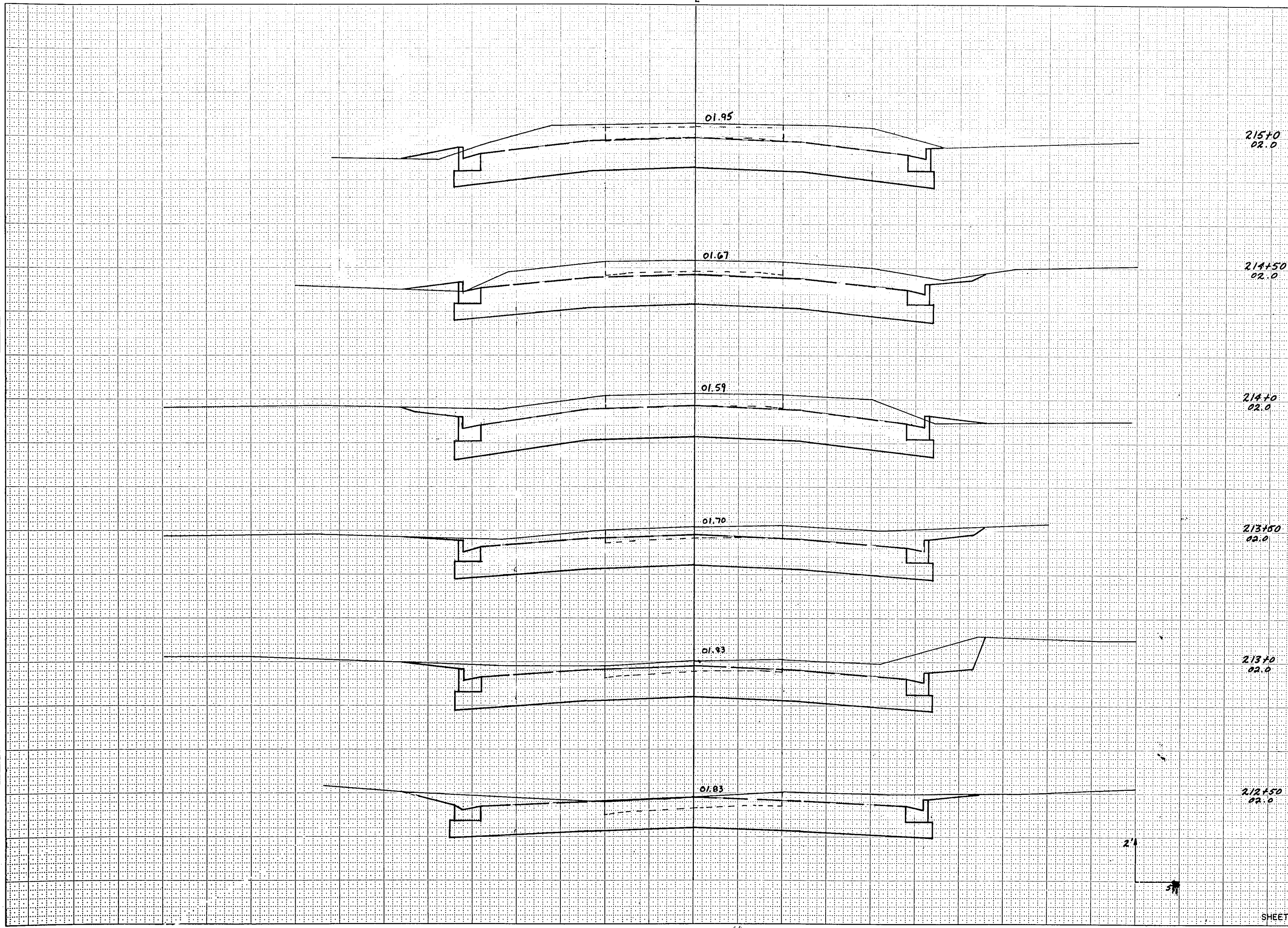


SCALE:
1"=2' VERT.
1"=5' HORIZ.

[illegible]

SURVEY REPORT
NOTE BOOK
NO. 100
DATE
TIME
AREA
CHECKED

SURVEY REPORT
NOTE BOOK
NO. 100
DATE
TIME
AREA
CHECKED



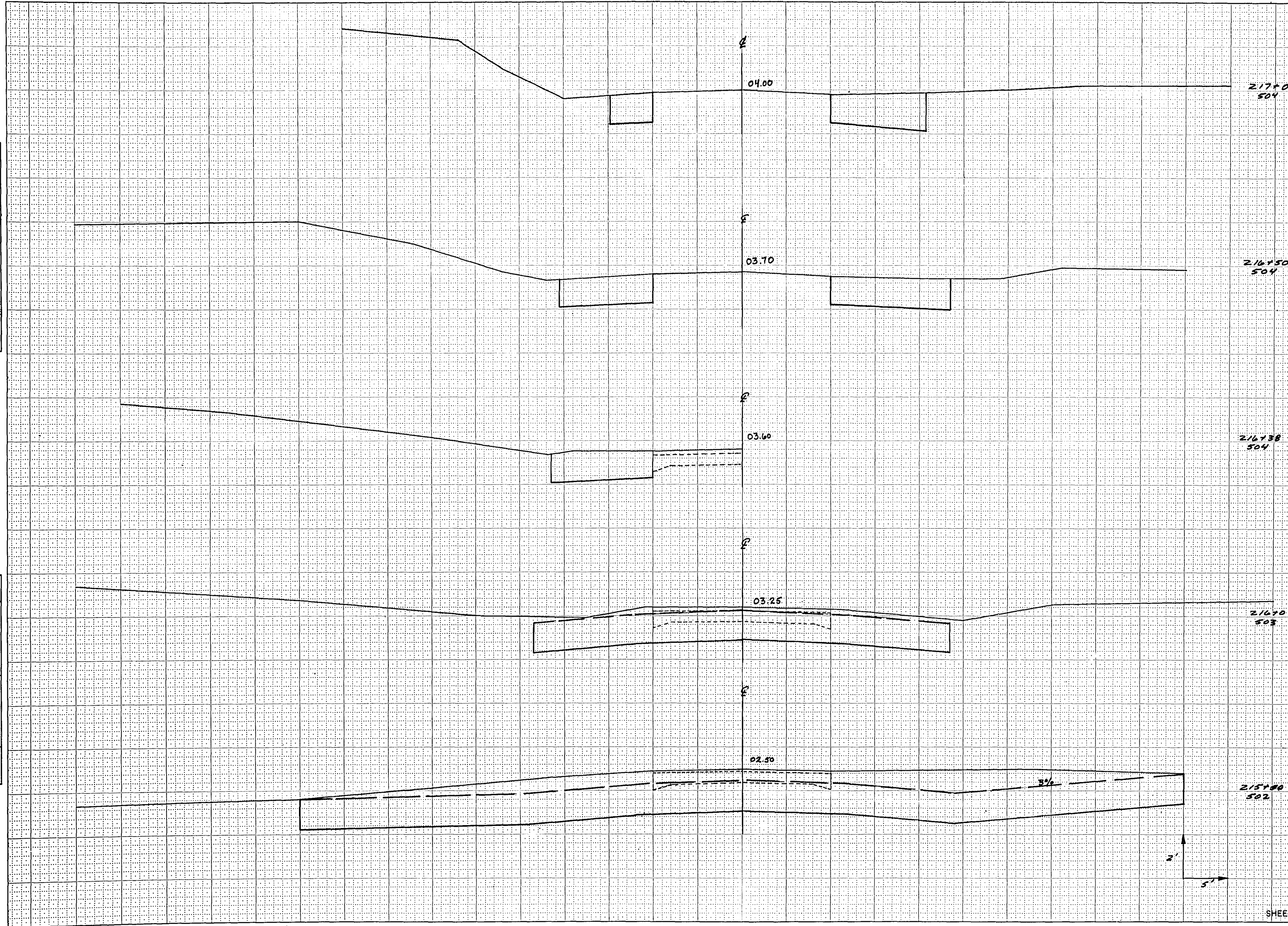
B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	1184-1-71	33	48
WIS.			

STATION	DISTANCE	YARDAGE				
		EXCAVATION				FILL
		UNS.				

NOTE BOOK TEMPLATE
NO. 1-57
DATE
REVISIONS

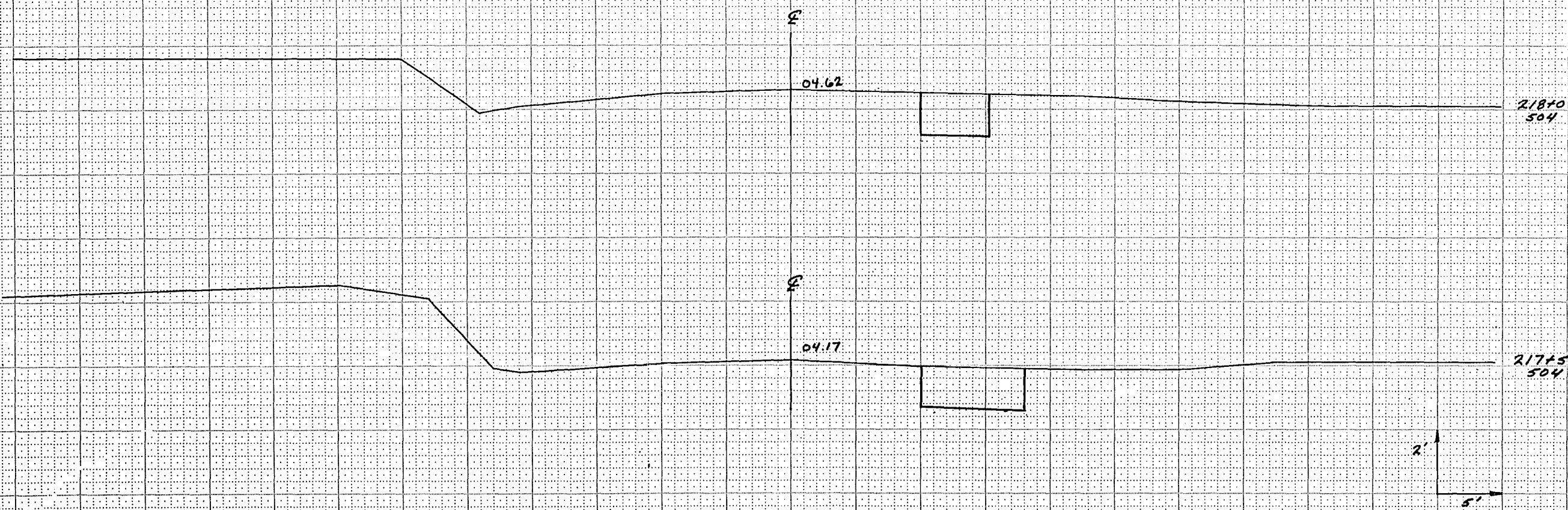
NOTE BOOK TEMPLATE
NO. 1-57
DATE
REVISIONS

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	34	48



STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		LINE	FILL
215			
215	150	204	2
216		167	0
216	138	41	0
216	150	9	0
216	150	48	0
217			
SHEET TOTAL		469	2

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1104-1-71	35	48

[illegible]

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-7-T10	36	48

[illegible]

LEA STREET LT.
STA. 186+44.4

1 + 50
500.0

1+00
500.0

0+75
500.0

0+50
502.0

0 + 32
502.0

01.15

01.41

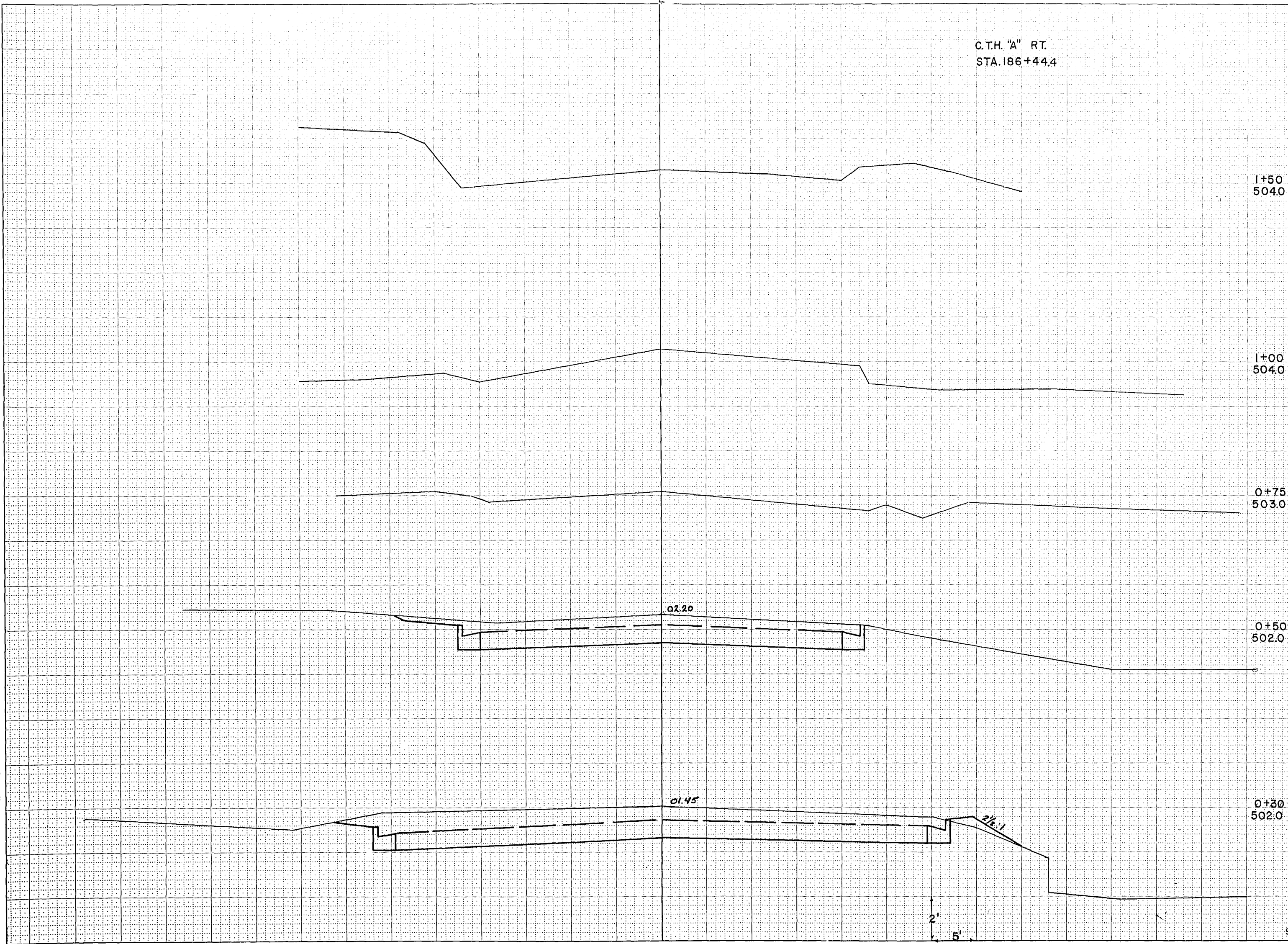
11

4.1

FUNCTIONAL CROSS SECTION - OPEN DOTTED

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	37	48

C.T.H. "A" RT.
STA. 186+44.4

[illegible]

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	38	48

[illegible]

MAIN STREET LT.
STA. 189+95.3

00.28

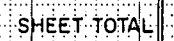
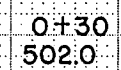
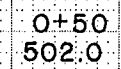
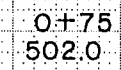
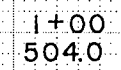
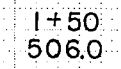
00:30

SHEET TOTAL

FUNCTIONAL CROSS SECTION - OPEN DOTTED

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	39	48

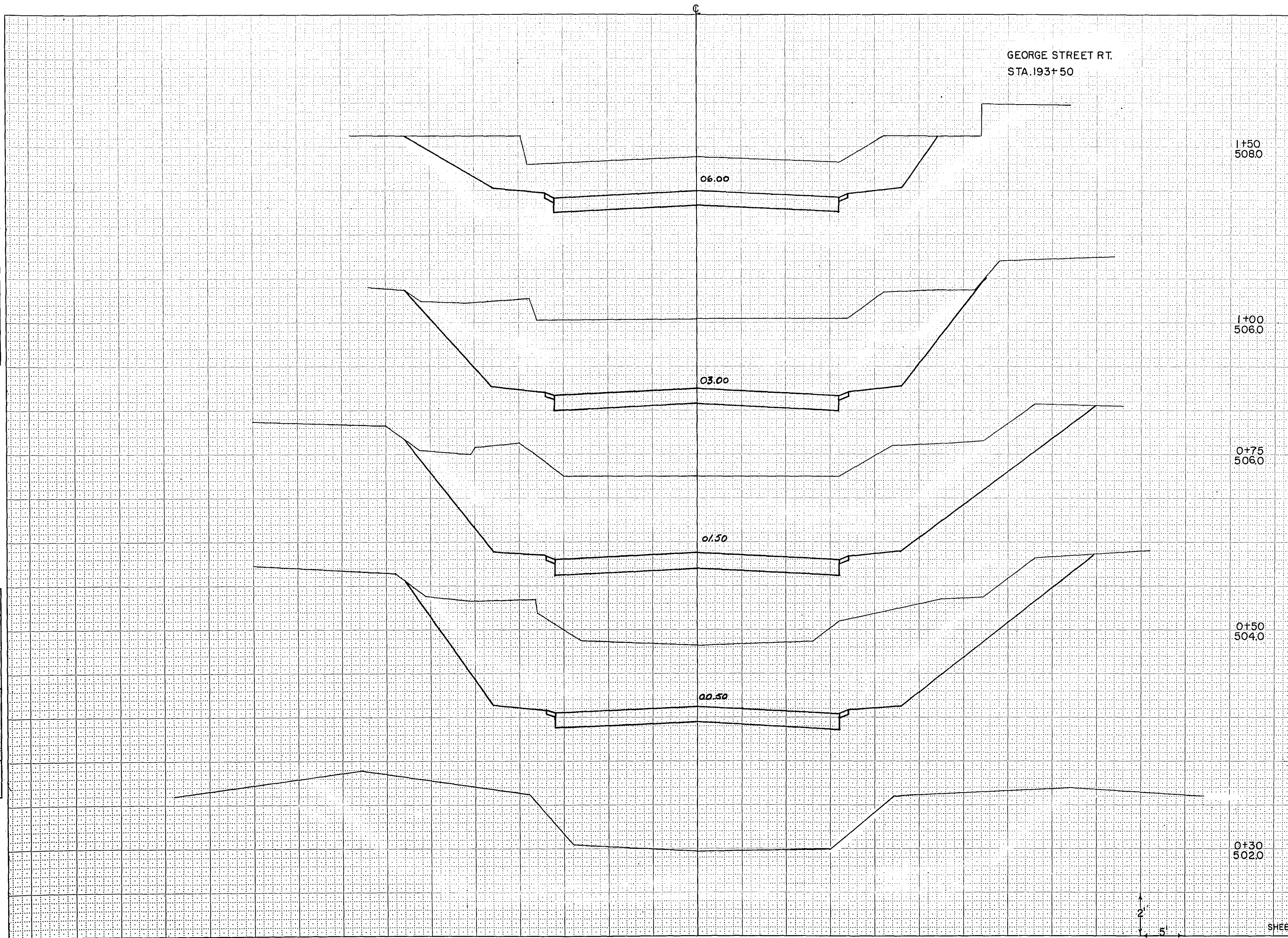
MAIN STREET RT.
STA. 189+95.3

[illegible]

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

SURVEY	DATE	TIME	AREA
NO. 1	11/1/71	10:00	1.00
NO. 2	11/1/71	10:00	1.00
NO. 3	11/1/71	10:00	1.00
NO. 4	11/1/71	10:00	1.00
NO. 5	11/1/71	10:00	1.00
NO. 6	11/1/71	10:00	1.00
NO. 7	11/1/71	10:00	1.00
NO. 8	11/1/71	10:00	1.00
NO. 9	11/1/71	10:00	1.00
NO. 10	11/1/71	10:00	1.00

SURVEY	DATE	TIME	AREA
NO. 1	11/1/71	10:00	1.00
NO. 2	11/1/71	10:00	1.00
NO. 3	11/1/71	10:00	1.00
NO. 4	11/1/71	10:00	1.00
NO. 5	11/1/71	10:00	1.00
NO. 6	11/1/71	10:00	1.00
NO. 7	11/1/71	10:00	1.00
NO. 8	11/1/71	10:00	1.00
NO. 9	11/1/71	10:00	1.00
NO. 10	11/1/71	10:00	1.00



GEORGE STREET RT.
STA. 193+50

B.P.R. REGION		PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.		1184-1-71	41	48
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNC.		
1+50	508.0			
1+00	506.0			
0+75	506.0			
0+50	504.0			
0+50		239		0
0+75		222		0
1+00		311		0
1+50				
0+30	502.0			
SHEET TOTAL		772		0

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	43	48

BOHN STREET LT.
STA. 196+91.6

1+25
500.0

1+00
500.0

0.75
500.0

0+50
500.0

0.25
500.0

SHEET TOTAL	
-------------	--

[illegible]

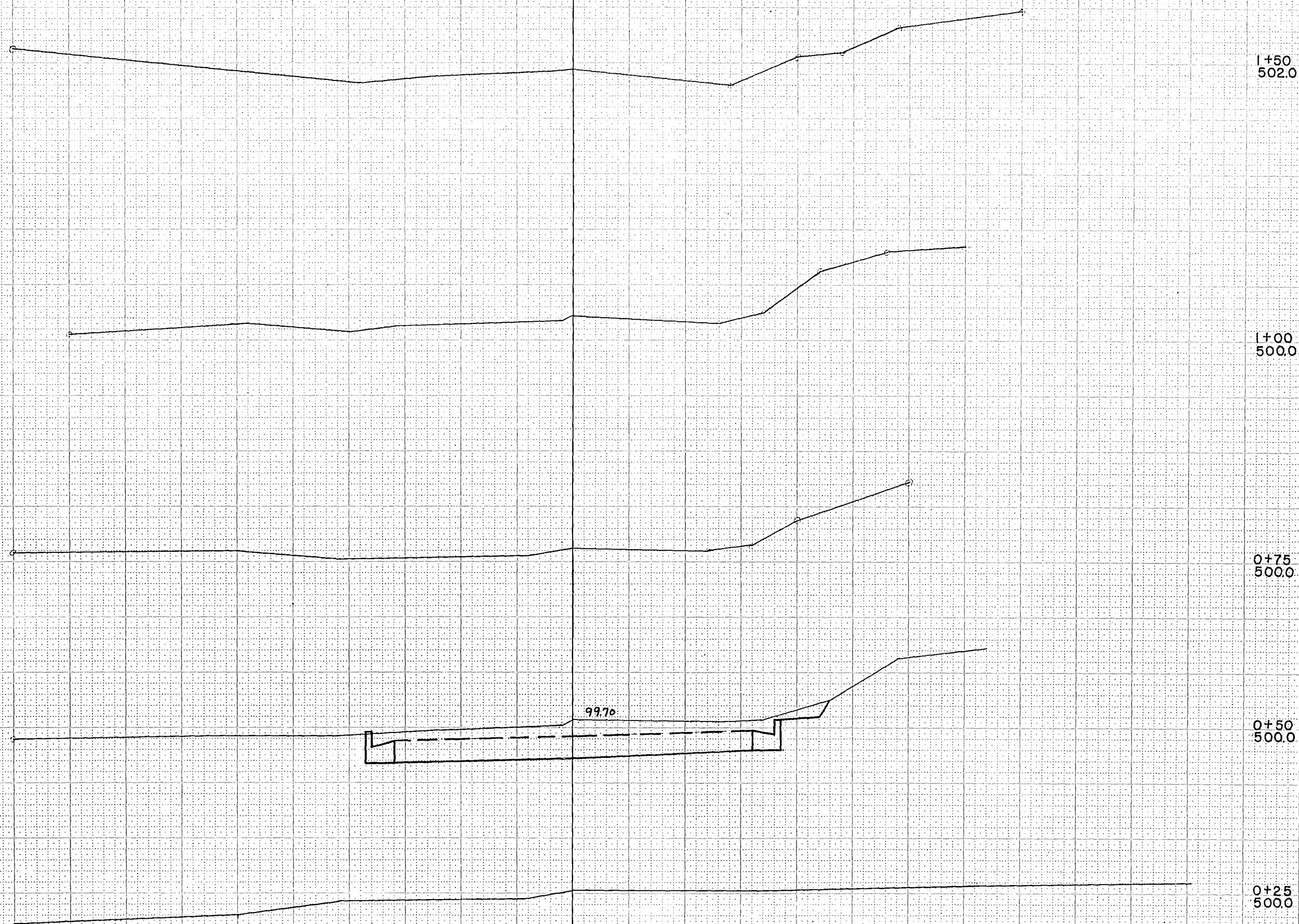
SURVEY	PLOTTED
NOTE BOOK	TEMPLATE
	AREAS
NO.	AREAS CHECKED

SURVEY	PLOTTED	<i>TYP.</i>	<i>9-71</i>
NOTE BOOK	TEMPLATE	<i>C.B.</i>	<i>9-71</i>
	AREAS	<i>P.M.</i>	<i>9-71</i>
NO. <i>1-1</i>	AREAS CHECKED	<i>B.B.</i>	<i>9-71</i>

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

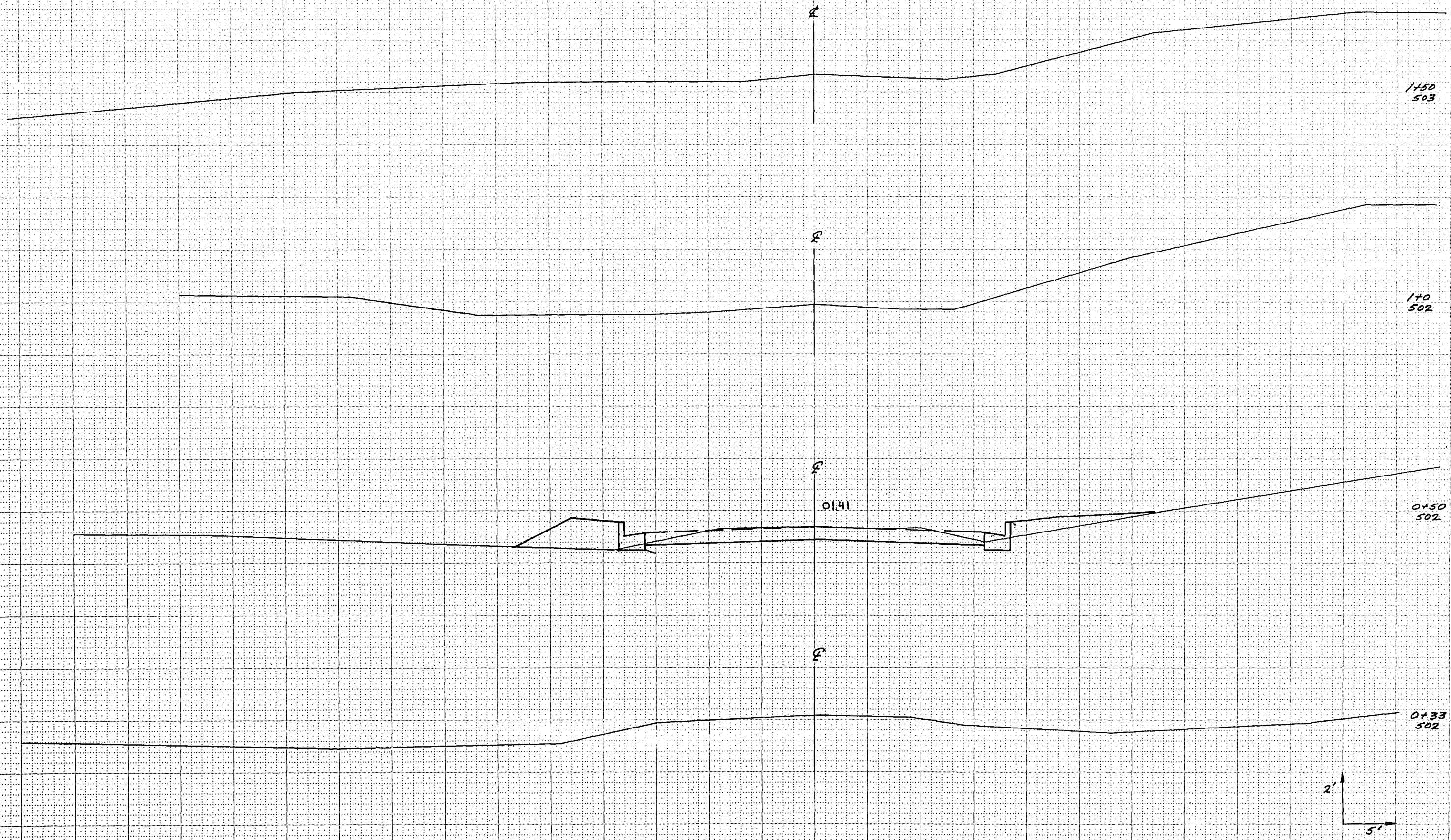
B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEET
4 WIS.	1184-1-71	44	48

BOHN STREET RT.
STA.196+91.6

[illegible]

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	1184-1-71	47	48

FRONT ST. (LEFT)

[illegible]

NOTE BOOK	SLOTTER
	TEMPLATE
	AREAS
	AREAS CHECKED
NO.	

NOTE BOOK	DATE	TIME
NO. <u>66</u>	TEMPLATE	<u>60</u>
	AREAS	<u>0.71</u>
	AREAS CHECKED	<u>0.71</u>

