

Sheet Number	Total Sheets
1	11

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

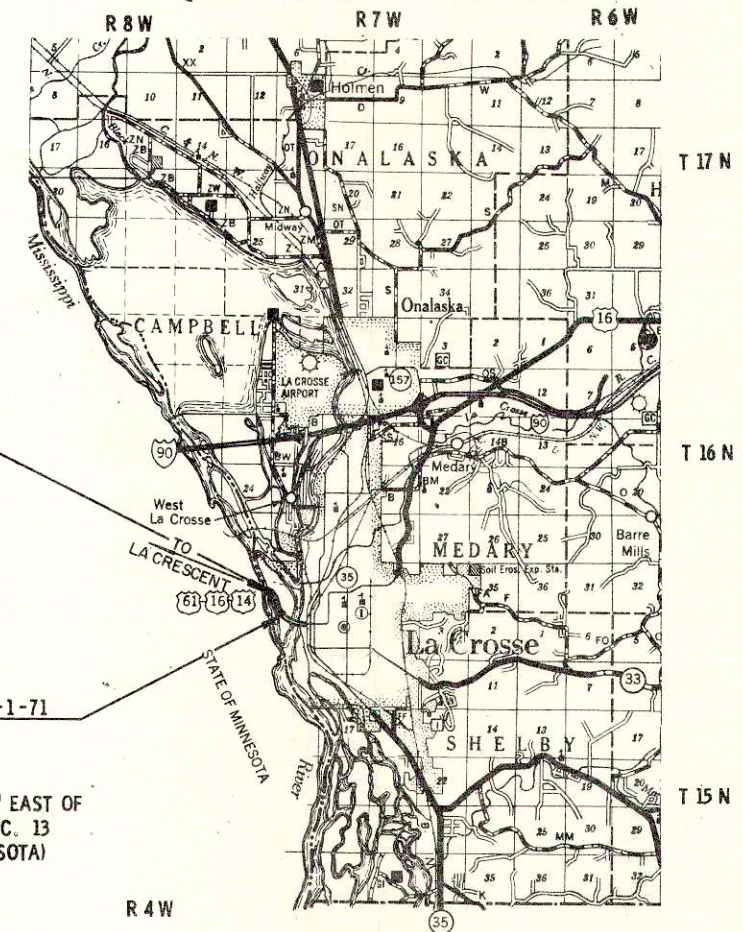
STATE LINE - LA CROSSE ROAD

STATE LINE - WEST ABUTMENT MISSISSIPPI RIVER BRIDGE

U.S.H. 14, 16, & 61 LA CROSSE COUNTY

PROJECT IDENTIFICATION NUMBER
5200-1-71

Scales
Plan 1 in. = 50 ft.
Profile Hor. 1 in. = 100 ft. Vert. 1 in. = 10 ft.
Cross Sections Hor. 1 in. = 5 FT. Vert. 1 in. = 2 FT.



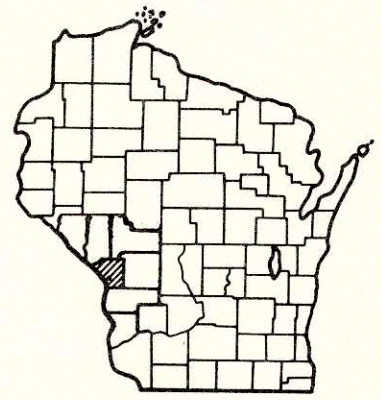
BEGIN PROJECT 5200-1-71
STA. 99+45.21
N 665,337.462
E 1,664,491.426
100' NORTH AND 700' EAST OF
THE SW CORNER SEC. 12
T 104 N R 4 W (MINNESOTA)

END OF PROJECT 5200-1-71
STA. 138+09.25
N 662,344.452
E 1,666,512.721
2100' NORTH AND 1900' EAST OF
THE SW CORNER OF SEC. 13
T 104 N R 4 W (MINNESOTA)

Layout
Scale
SCALE: 1" = 2 MILES
Total Net Length of Centerline = 0.732 Mi. URBAN

Index of Sheets

Sheet No.	Title
1	Title
2-2.1	Typical Cross Sections
3	Estimate of Quantities
3A	Miscellaneous Quantities
—	Right of Way Plat
4-5	Plan and Profile STA. 99 + 45.21 to STA. 138 + 09.25
6-6.4	Standard Details
—	Structure Plans
7-11	Cross Sections



Design Designation

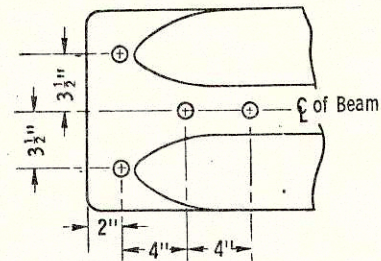
A. D. T. (1972)	14,400
A. D. T. (1992)	19,500
D. H. V.	1,400
D.	60%
T.	8%
V.	40 MPH

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	— — — — —	Reference Stake for Hubs Only	— — — — —
Woven	— — — — —	Marsh	— — — — —
Barbed	— — — — —	Hedge	— — — — —
Lot Line	— — — — —	Trees	— — — — —
Corporate or City Limits	— — — — —	Ground Elevation	Datum Line 73.9
Property Line	— — — — —	Grade Elevation	Datum Line 76.16
Traveled Way or P. E.	— — — — —		
Railroads	— — — — —		
Base or Survey Line	— — — — —		

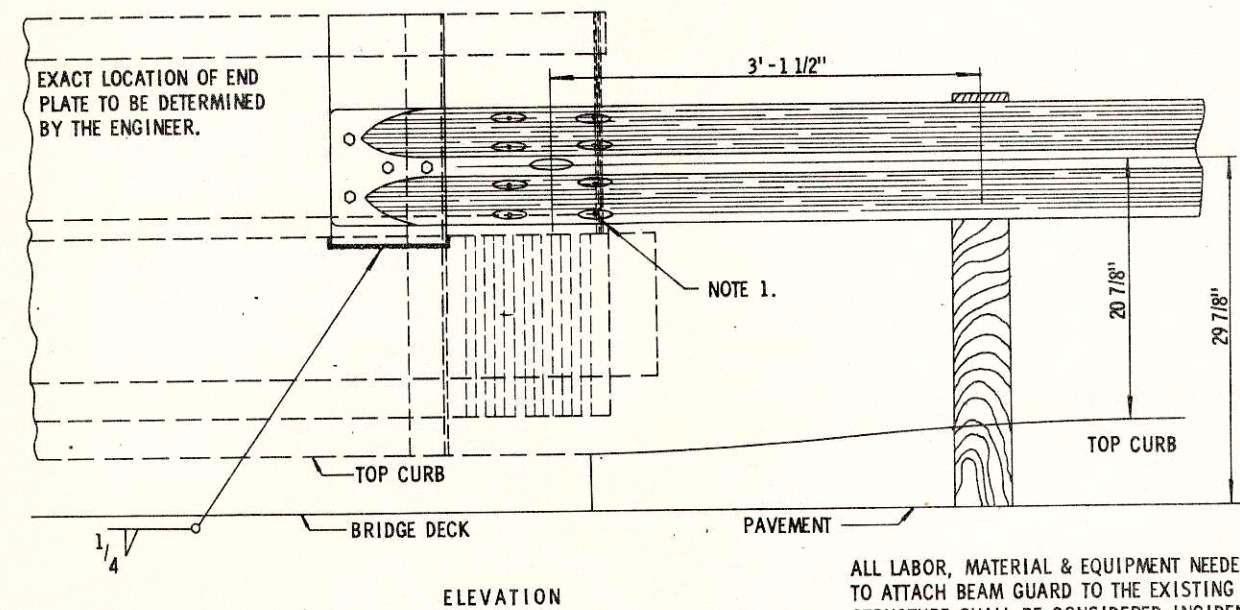
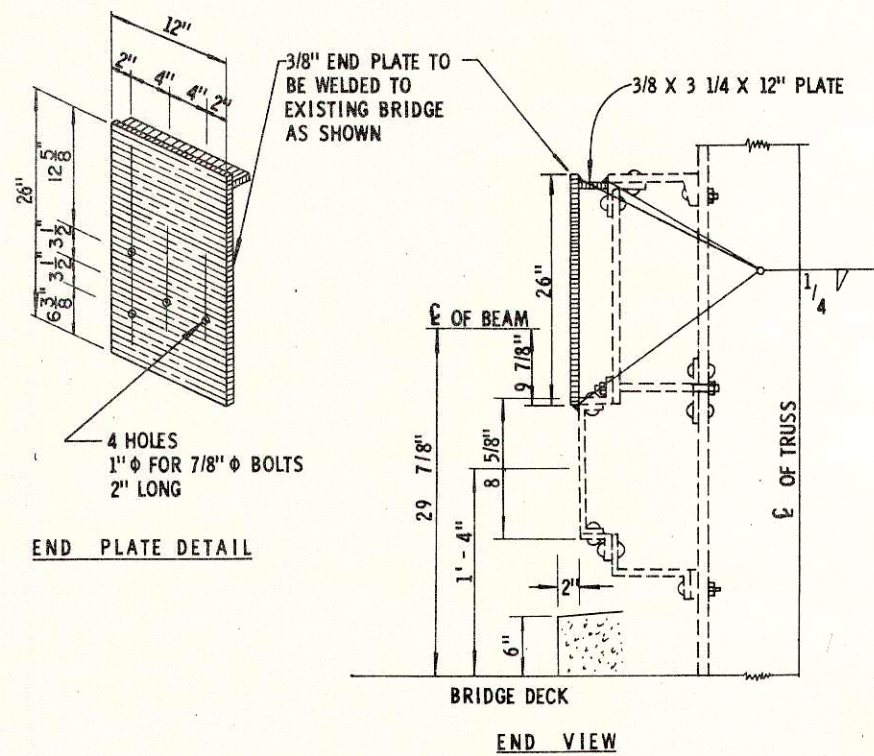
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor <u>M.E.W.</u>	District Checker <u>R.V.R.</u>
Designer <u>R.D.E.</u>	C.O. Checker <u>J.L.J.</u>
Correct:	
Date <u>2/3/72</u>	<u>[Signature]</u> District Engineer
Recommended for Approval:	
Date <u>2/23/72</u>	<u>[Signature]</u> Chief Design Engineer
Approved:	
Date <u>2/24/72</u>	<u>[Signature]</u> State Highway Engineer
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
REGION 4 WISCONSIN DIVISION	
Approved:	
Date _____ Division Engineer	

PROJECT I. D.	5200 - 1 - 71	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION		2	11



Hole Diagram for Beam Guard Attachment

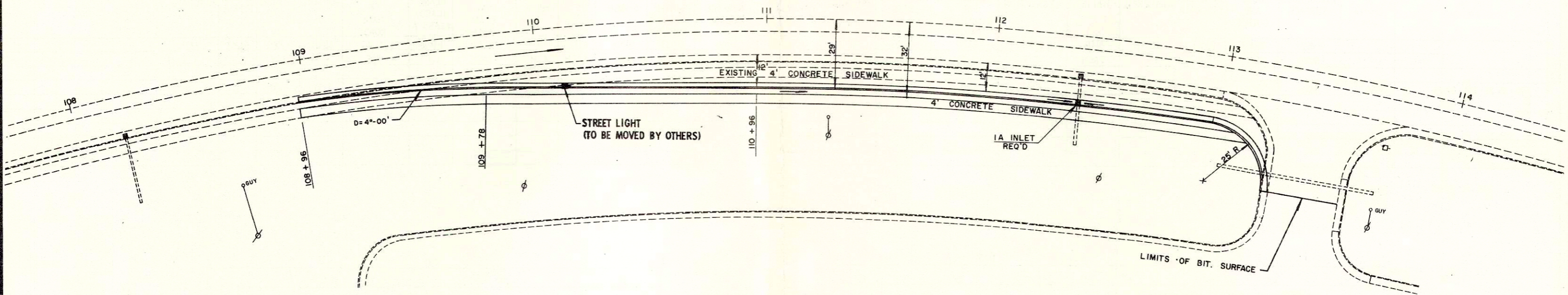
NOTE 1.
EXPANSION AND CONTRACTION OF THE BRIDGE SUPERSTRUCTURE PRECLUDES A RIGID CONNECTION BETWEEN THE EXISTING STRUCTURE AND THE GUARDRAIL INSTALLATION. THE GUARDRAIL SPLICE AT THE END SHOE CONNECTION MUST PERMIT ANY EXPANSION OR CONTRACTION TO BE ABSORBED WITHIN THE SPLICE. BOLT (SPLICE) TENSION NECESSARY TO PREVENT THE CONNECTION FROM BECOMING A RIGID CONNECTION SHALL BE DETERMINED BY THE ENGINEER.



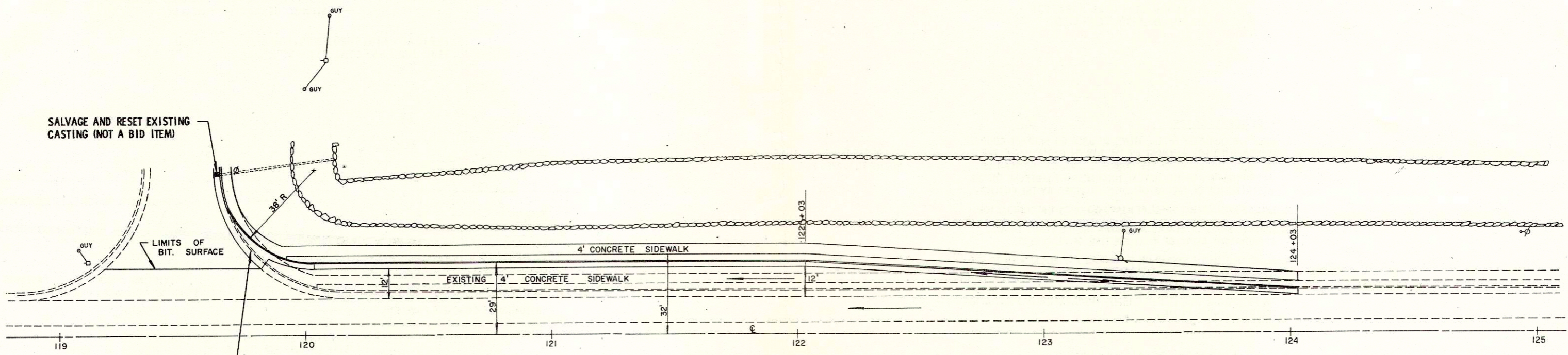
ALL LABOR, MATERIAL & EQUIPMENT NEEDED TO ATTACH BEAM GUARD TO THE EXISTING STRUCTURE SHALL BE CONSIDERED INCIDENTAL TO THE WORK & THE COST THEREOF SHALL BE INCLUDED IN THE BID PRICE OF LINEAR FOOT OF STEEL PLATE BEAM GUARD CLASS "A".

BEAM GUARD ATTACHMENT TO BRIDGE
STA. 99 + 45.21

PROJECT I. D.	5200 - 1 - 71	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION		21	11



TURNING LANE STA. 108+96 - STA. 113+26 RT



TURNING LANE STA. 119+63 - STA. 124+03 LT.

SALVAGE AND RESET EXISTING CASTING (NOT A BID ITEM)

TO BE CONSTRUCTED MONOLITHIC WITH CONCRETE CURB AND GUTTER. THE COST THEREOF SHALL BE INCLUDED IN THE BID PRICE OF LINEAR FOOT OF CONCRETE CURB AND GUTTER, 30-INCH TYPE D.

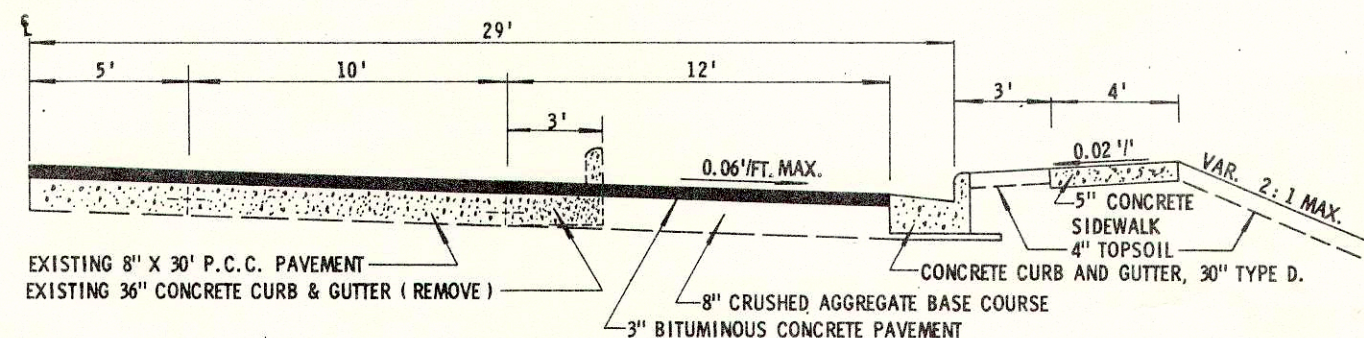
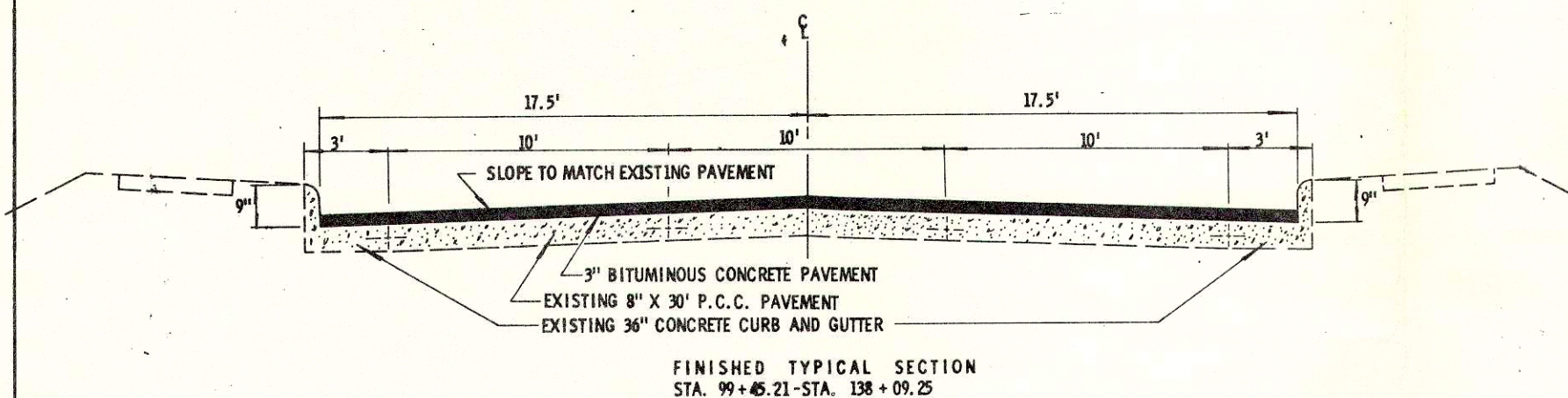
ESTIMATE OF QUANTITIES

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

CONTRACT NO. 1
SURFACING (BITUMINOUS
CONCRETE)

PROJECT ID 5200-1-71	SHEET NUMBER 3	TOTAL SHEETS 11
FEDERAL PROJECT DESIGNATION		

SEC NO	STATION TO STATION	NET LENGTH OF CENTER LINE	REMOVING	REMOVING	REMOVING	REMOVING	REMOVING	UNCLASSIFIED	PREPARATION	CRUSHED	BASE	BITUMINOUS	BITUMINOUS	CONCRETE	CONCRETE	INLETS	INLET	ANCHORAGES	STEEL	MAINTENANCE	TOPSOIL	SEEDING	FIELD	FIELD
			BITUMINOUS SURFACE	CURB AND GUTTER	CONCRETE SIDEWALK	GUARDRAIL	INLETS	EXCAVATION	OF FOUNDATION FOR BITUMINOUS PAVING	AGGREGATE BASE COURSE	PATCHING	CONCRETE PAVEMENT	MATERIAL FOR SURFACE COURSE	CURB AND GUTTER 30-INCH, TYPE D	SIDEWALK 5-INCH	TYPE 1	COVERS, TYPE A	FOR STEEL PLATE BEAM GUARD	PLATE BEAM GUARD, CLASS A	AND REPAIR OF HAUL ROADS			OFFICE, TYPE A	LABORATORY
ITEM NO	UNIT	LIN FT	S. Y.	L. F.	S. Y.	L. F.	EACH	C. Y.	L. S.	C. Y.	S. Y.	TON	TON	L. F.	S. F.	EACH	EACH	EACH	L. F.	L. S.	S. Y.	S. Y.	L. S.	L. S.
99+45.21-138+09.25		3864.04	165	920	390	160	1	510	1	325	75	3000	180	910	3488	1	1	1	154	1	1150	1150	1	1



GENERAL NOTES

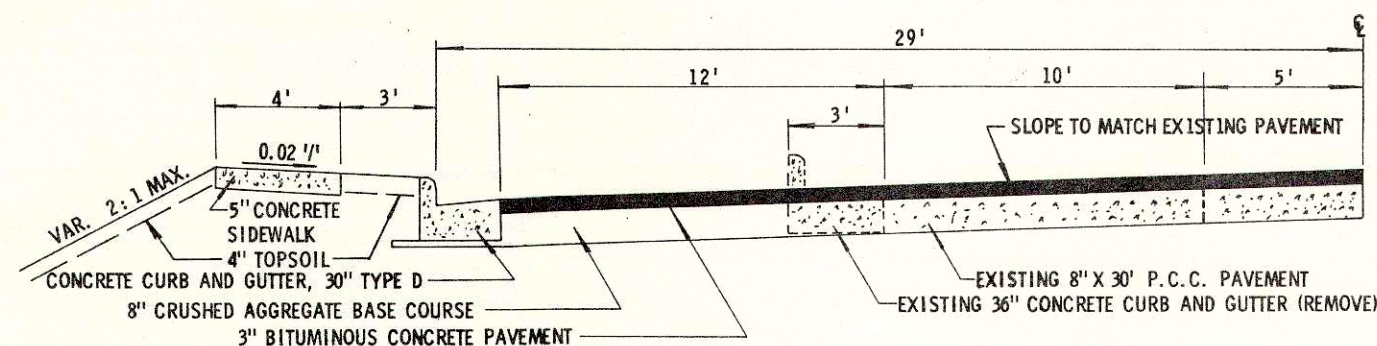
1. WHEN THE QUANTITY OF THE ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
2. EXCESS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR
3. TOPSOIL SHALL BE PLACED AS SHOWN ON THE PLANS TO AN APPROXIMATE DEPTH OF 4" AT THE TIME OF PLACEMENT.
4. ALL COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM SOUTH ZONE.
5. A 10 FOOT TACK COAT SHALL BE USED AT THE BRIDGE ABUTMENTS AS AN INCIDENTAL NON-BID ITEM UNDER PREPARATION OF FOUNDATION FOR BITUMINOUS PAVING.

UTILITIES

LA CROSSE TELEPHONE COMPANY
NORTHERN STATES POWER COMPANY

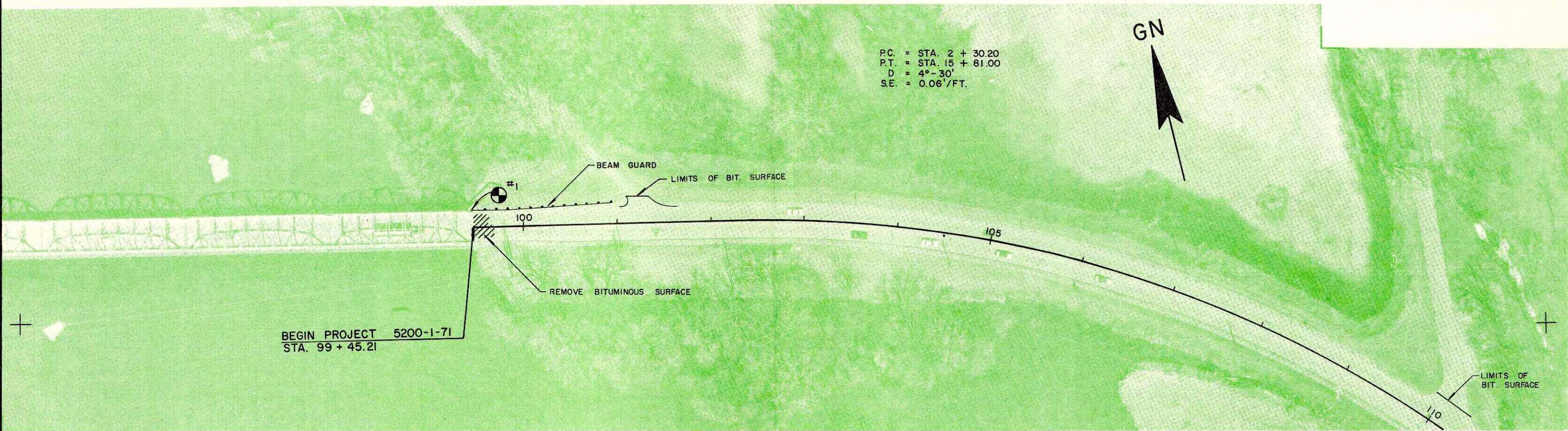
STANDARD DETAIL DRAWINGS

- 8C 1-1 INLETS TYPE 1 & 2 AND INLET COVERS
- 8D 1-1 CONCRETE CURB, GUTTER, COMBINATION CURB & GUTTER, SURFACE DRAIN.
- 14B2-1 CLASS "A" STEEL PLATE BEAM GUARD & STEEL PLATE A & B BEAM MEDIAN GUARD.
- 15C1-1 CONSTRUCTION BARRICADE

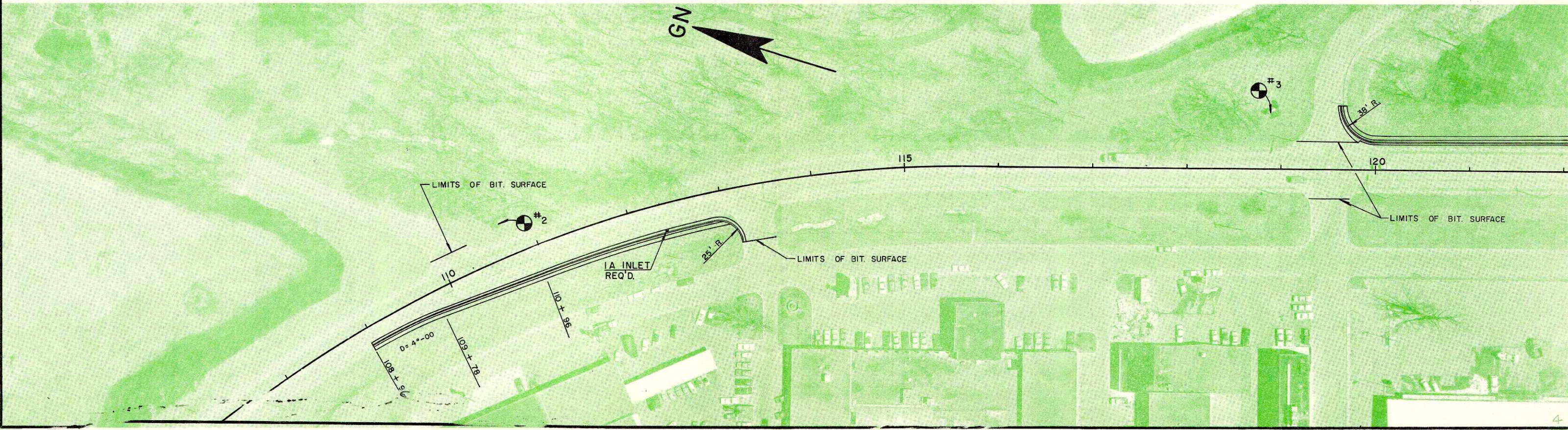
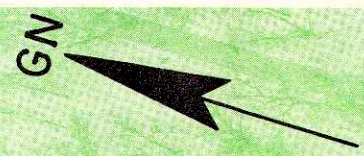


PROJECT I.D. 5200-1-71	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION	4	11

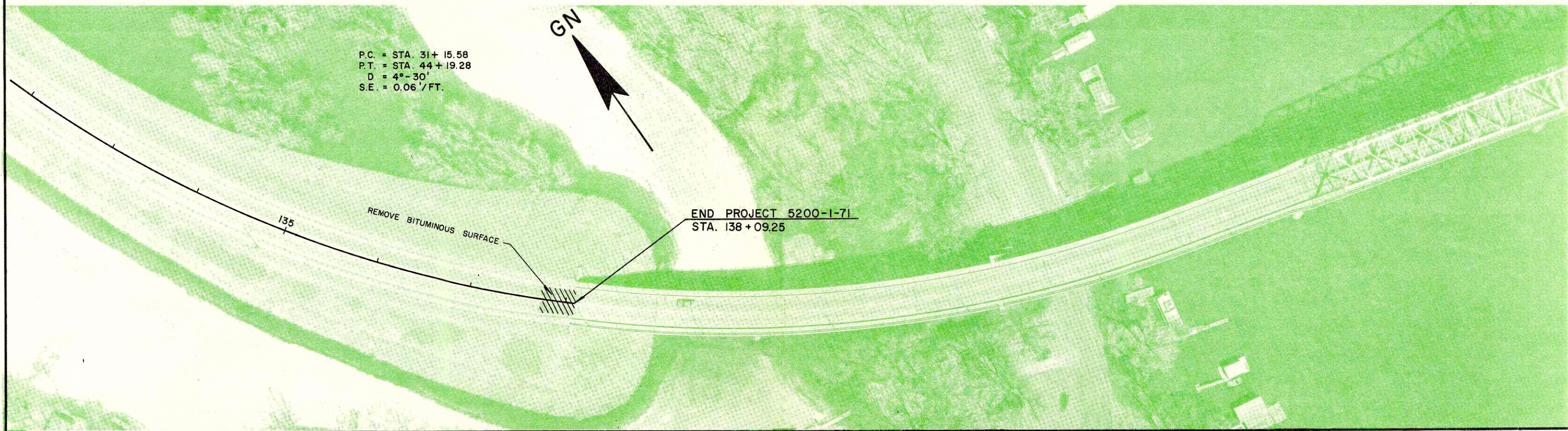
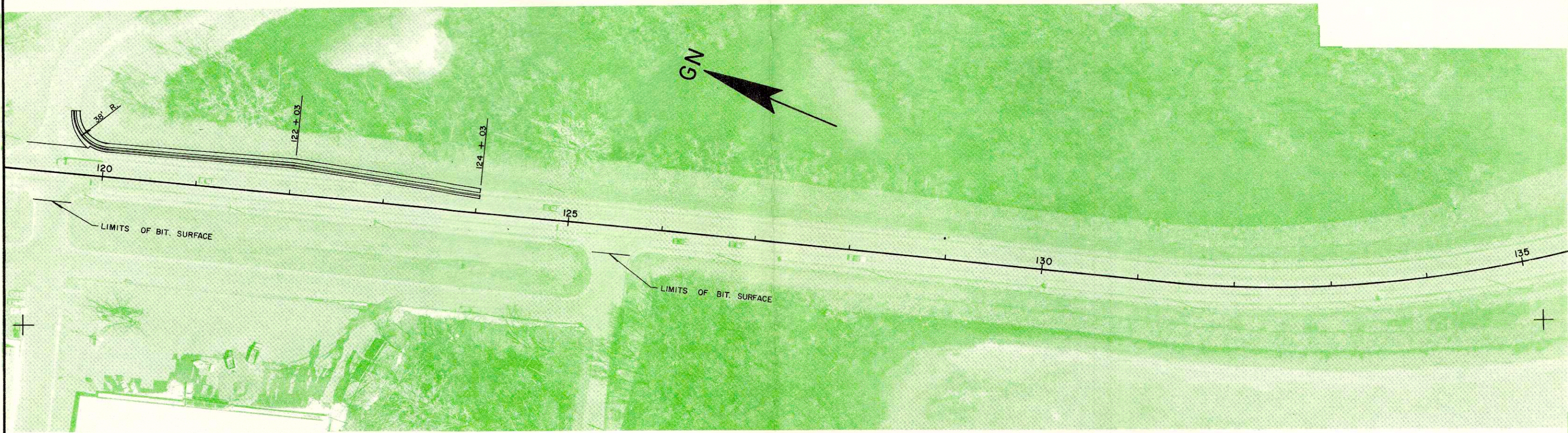
P.C. = STA. 2 + 30.20
 P.T. = STA. 15 + 81.00
 D = 4°-30'
 S.E. = 0.06'/FT.



BM# 1 □ TOP NORTH PARAPET WALL STA. 99+45 17' LT. ELEV. 648.30
 BM# 2 □ ON FOUNDATION SW CORNER WELCOME WISC. SIGN STA. 110 + 71 38' LT. ELEV. 649.65
 BM# 3 □ ON FOUNDATION SW CORNER PETTIBONE PARK SIGN STA. 118 + 87 59' LT. ELEV. 649.34



PROJECT I.D.	5200-1-71	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION		5	11



DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

REMOVING BITUMINOUS SURFACE

Sta. - Sta.	Location	S.Y.	L.F.
99+45.21-99+67.21	Rt.	29	403
99+45.21-99+61.21	Lt.	21	50
137+71.25-138+09.25	Rt.	60	80
137+74.25-138+09.25	Lt.	55	387

REMOVING CURB AND GUTTER

Sta. - Sta.	Location	L.F.
108+96-112+99	Rt.	403
112+99-113+23	Radius Rt.	50
119+65-120+16	Radius Lt.	80
120+16-124+03	Lt.	387

REMOVING CONCRETE SIDEWALK

Sta. - Sta.	Location	S.Y.	L.F.
108+96-113+11	Rt.	185	185
119+68-120+01	Lt.	26	26
120+01-124+03	Lt.	179	179

REMOVING GUARDRAIL

Sta. - Sta.	Location	L.F.
99+50-101+10	Lt.	160

REMOVING INLETS

Sta.	Location	Each
112+36.7	Rt.	1

CRUSHED AGGREGATE BASE COURSE

Sta. - Sta.	Location	C.Y.
108+96-110+96	Taper Rt.	44
110+96-112+99	Turning Lane Rt.	84
112+99-113+21	Radius Rt.	8
119+82-120+16	Radius Lt.	11
120+16-122+03	Turning Lane Lt.	78
122+03-124+03	Taper Lt.	44
Undistributed		56

BASE PATCHING

Sta.	Location	S.Y.
100+60	Rt.	4.5
101+45	Rt.	11.0
103+60	Rt.	4.5
105+60	Rt.	55.0

BITUMINOUS CONCRETE 3-INCH

Sta. - Sta.	Location	Bituminous Concrete Tons	Bituminous Material for Surface Course Tons
99+45.21-138+09.25	C/L	2547	152.8
108+96-110+96	Taper	16	1.0
110+96-112+99	Turning Lane	36	2.2
112+99-113+21	Radius Rt.	4	0.2
119+82-120+16	Radius Lt.	5	0.3
120+16-122+03	Turning Lane	34	2.0
122+03-124+03	Taper	16	1.0
S.R. 101+45	Lt.	7	0.4
S.R. 110+45	Lt.	11	0.7
S.R. 113+35	Rt.	15	0.9
S.R. 119+50	Lt.	18	1.1
S.R. 119+50	Rt.	14	0.8
S.R. 125+50	Rt.	14	0.8
Wedging	C/L	152	9.1
Undistributed		111	6.7

CONCRETE CURB AND GUTTER 30-INCH TYPE D

Sta. - Sta.	Location	L.F.
108+96-112+96	Rt.	400
112+96-113+23	Radius Rt.	50
119+65-120+03	Radius Lt.	60
120+03-124+03	Lt.	400

CONCRETE SIDEWALK 5-INCH

Sta. - Sta.	Location	S.F.
108+96-113+12	Lt.	1664
119+68-119+90	Radius Lt.	172
119+90-124+03	Rt.	1652

INLETS

Sta.	Location	Type	Depth(Ft.)	Each
112+37	Rt.	1	1.5	1

STEEL PLATE BEAM GUARD CLASS A

Sta. - Sta.	Location	Anchors	L.F.
99+40-100+94	Lt.	1	154

5200-1-71

I.D. NO.

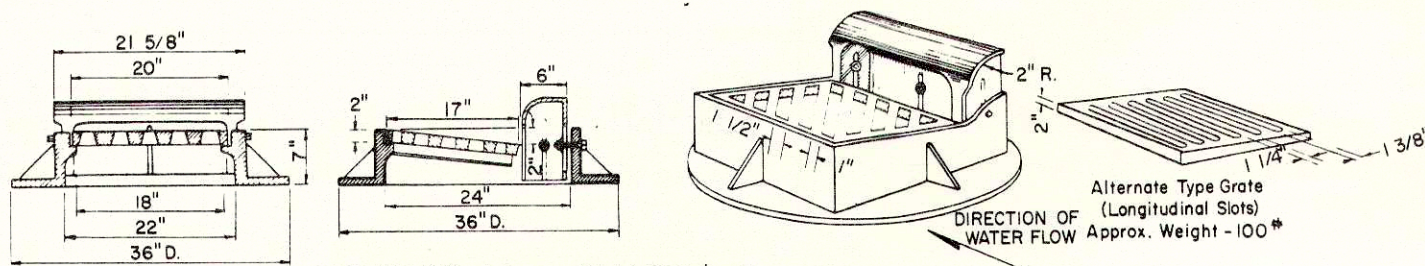
PROJECT

SHEET NO.

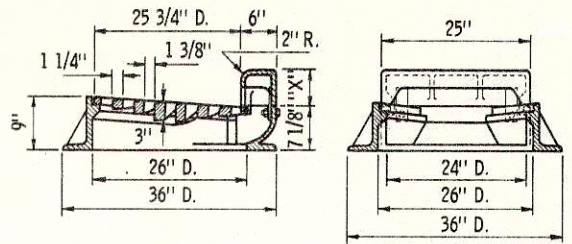
3A

TOTAL SHEETS

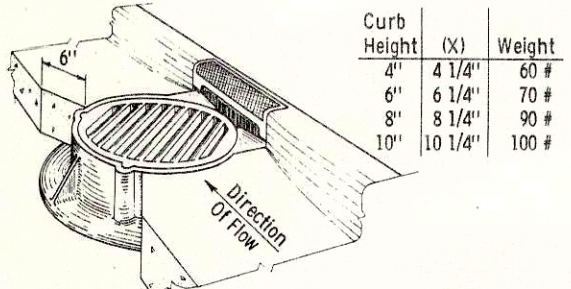
11



TYPE "A" - (Approx. Weight 390 Lbs.)
 Frame Weight - 250 #
 Grate " - 90 #
 Box " - 50 #

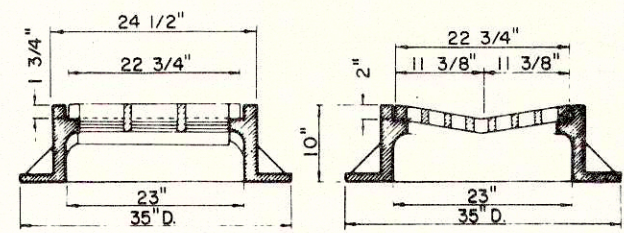


TYPE "G" - (Approx. Weight 425 - 465 Lbs.)
 Frame Weight - 235 #
 Grate " - 130 #
 Box - See Table

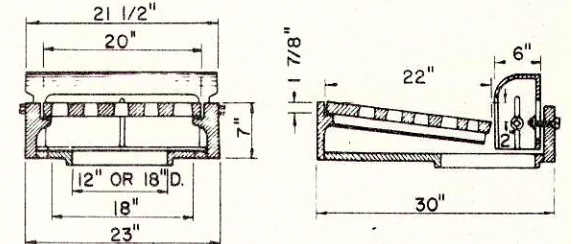


Curb Height	(X)	Weight
4"	4 1/4"	60 #
6"	6 1/4"	70 #
8"	8 1/4"	90 #
10"	10 1/4"	100 #

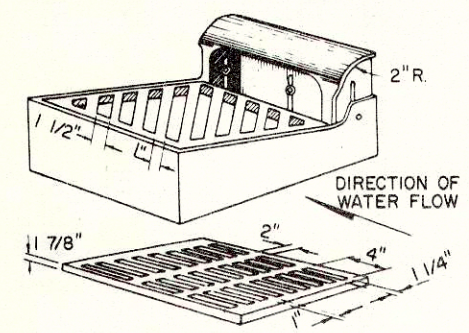
SPECIAL NOTE
 Diagonal Slots shall be oriented to the direction of flow as shown hereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow. (See Sketch Below)
 Longitudinal slot type grates may be used ONLY where bicycles are prohibited.



TYPE "B" - (Approx. Weight 414 Lbs.)
 Frame Weight - 275 #
 Grate " - 139 #

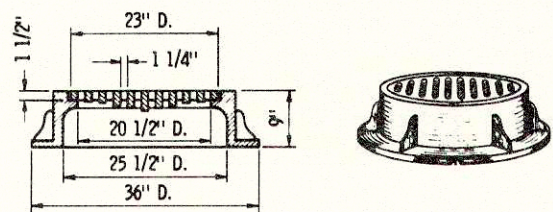


TYPE "R" - (Approx. Weight 450 Lbs.)

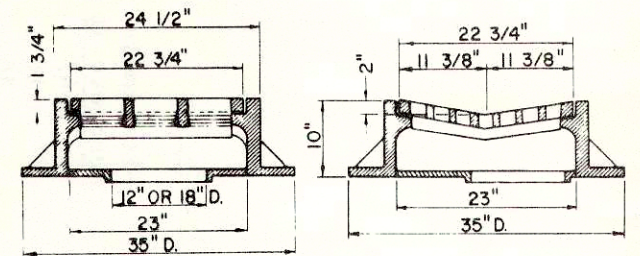


GENERAL NOTES

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, 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.

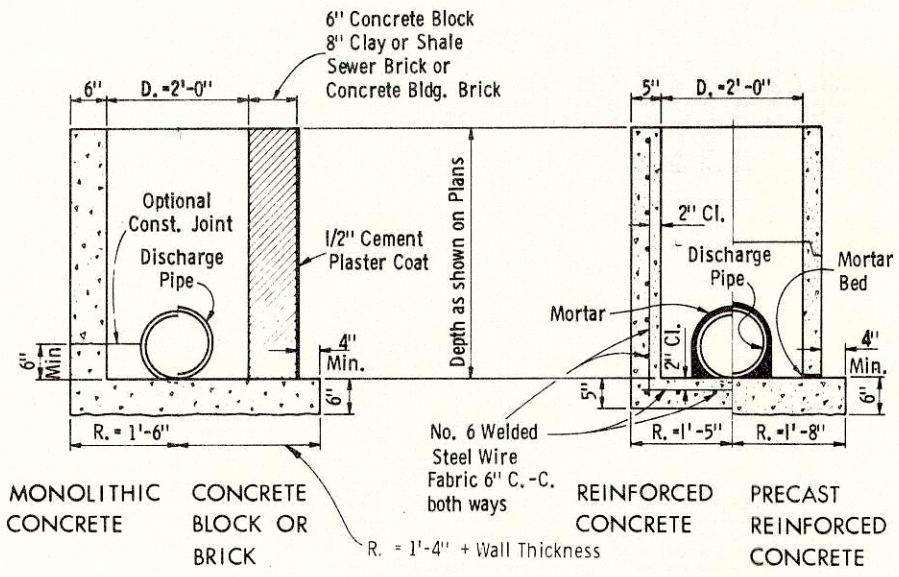


TYPE "C" - (Approx. Weight 370 Lbs.)
 Frame Weight Type "C" & Type "D" - 255 #
 Slotted Grate Weight - 115 #
 Solid Cover Weight - 150 #
 (Note: Frame for Type "C" same as for Type "D")

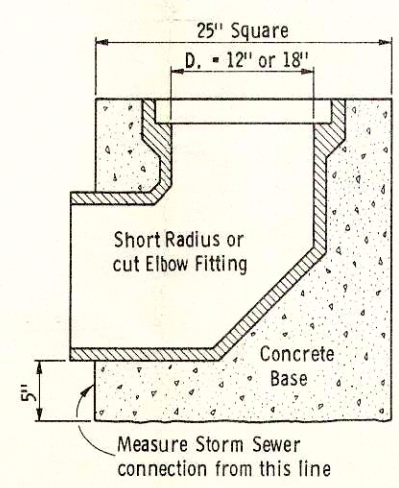


TYPE "S" - (Approx. Weight 450 Lbs.)

INLET COVERS



INLET TYPE 1



INLET TYPE 2

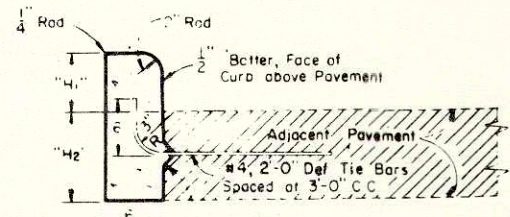
INLETS TYPE 1 & 2 AND INLET COVERS

State of Wisconsin
 Department of Transportation
 Division of Highways

RECOMMENDED FOR APPROVAL:
 DATE: 5/7/69
 E. J. Byssit
 CHIEF DESIGN ENGINEER

APPROVED:
 DATE: 5/12/69
 W. J. Summister
 STATE HIGHWAY ENGINEER

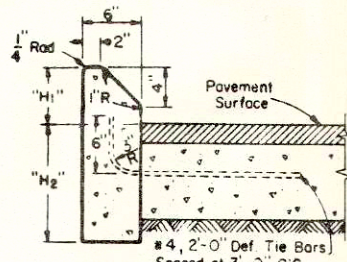
S.D.D. 8C1-1



Tie Bar recess positioned in reverse when Concrete Curb is constructed first.
 $H_1 = 9"$ max and $3\frac{1}{2}"$ min, and shall be 6" unless otherwise shown on plans.
 $H_2 =$ 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)**

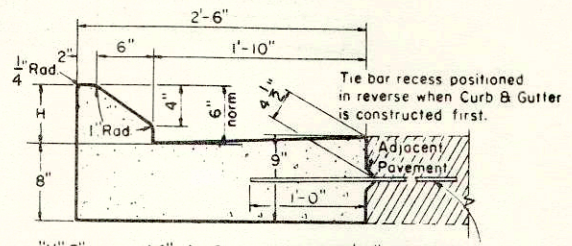
CONCRETE CURB



$H_1 = 9"$ Max and 4" min and shall be 6" unless otherwise shown on plans.
 $H_2 =$ 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)



$H = 9"$ max and 4" min & shall be 6" unless otherwise shown on plans.
 #4, 2'-0" 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)**

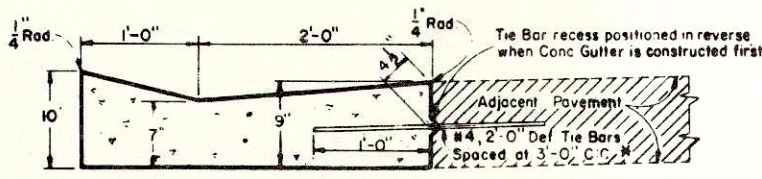
CONCRETE CURB AND GUTTER (Mountable Type)

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 -

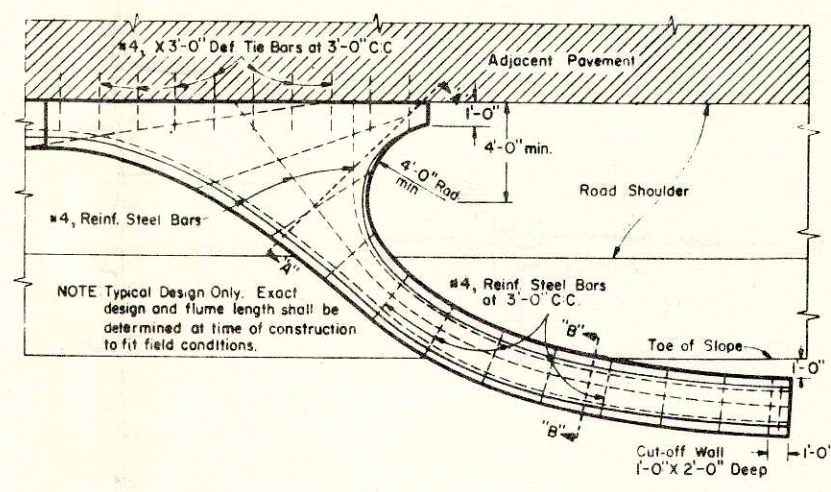
Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.



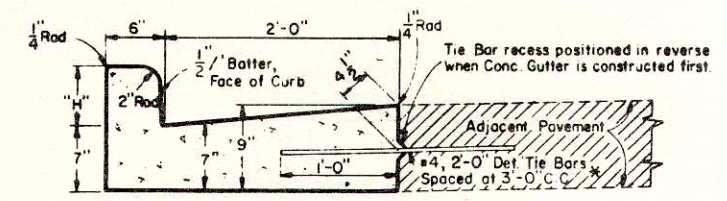
* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

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

CONCRETE GUTTER



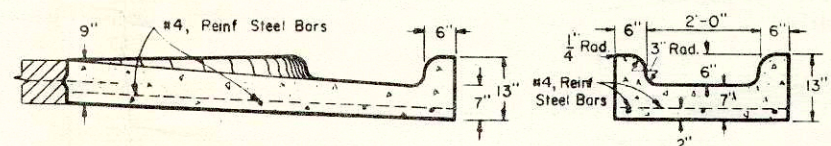
NOTE Typical Design Only. Exact design and flume length shall be determined at time of construction to fit field conditions.



$H = 9"$ Max, $3\frac{1}{2}"$ Min, and shall be 6" unless otherwise shown on 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

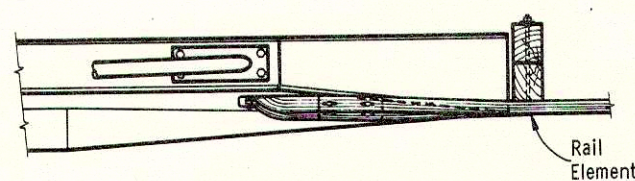
APPROVED:

DATE 2/6/63

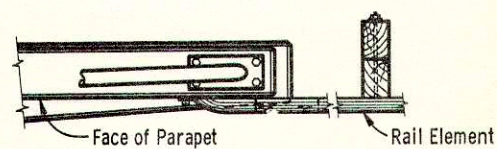
J. S. Pelt
 ENGINEER OF DESIGN

E. C. Rutledge
 STATE HIGHWAY ENGINEER

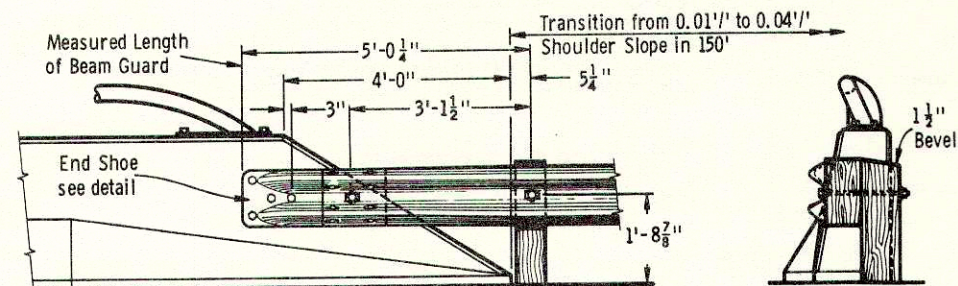
S.D.D. 8D1-1



PLAN VIEW



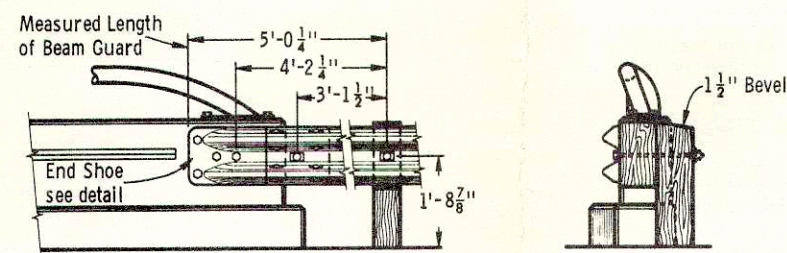
PLAN VIEW



FRONT ELEVATION

END ELEVATION

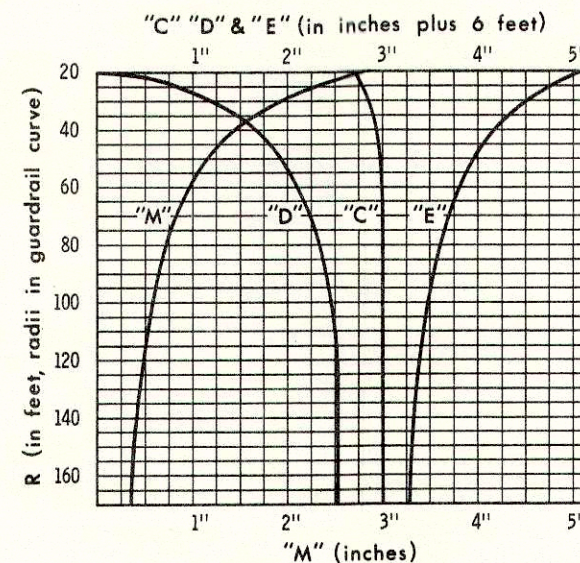
STRUCTURE MOUNTING DETAIL



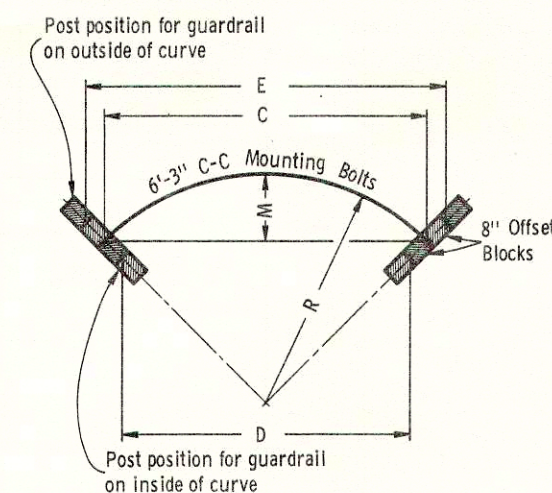
FRONT ELEVATION

END ELEVATION

STRUCTURE MOUNTING DETAIL



CURVE DATA FOR POST SPACING AND BEAM CURVING



CHORD LENGTHS FOR POST SPACING AND MIDDLE ORDINATES FOR BEAM CURVING

SLOPING TYPE PARAPET WALL

VERTICAL TYPE PARAPET WALL

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.

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.

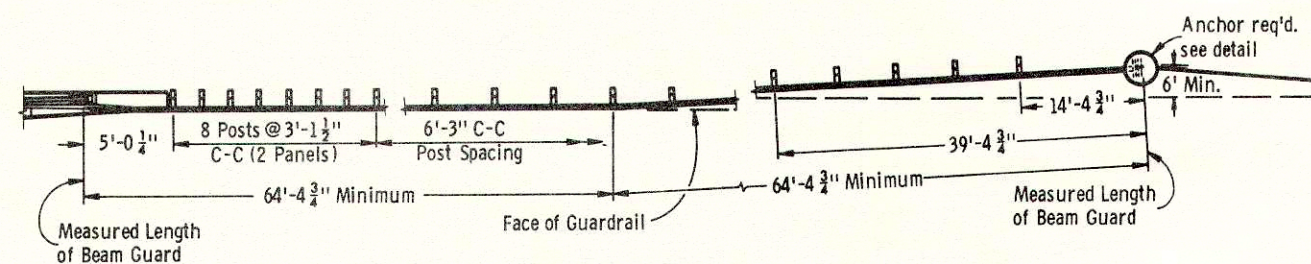
Square anchor alternates will be permitted. Square anchors shall be a minimum of 24 inches x 24 inches.

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.

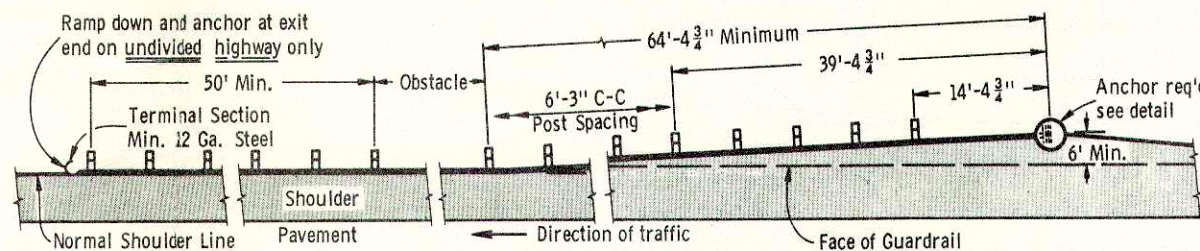
Upon approval of the Engineer, the 6 foot anchor offset may be reduced to 3 feet, for replacement installations where existing conditions will not permit the desirable offset.

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

NOTE: This Standard Detail Drawing consists of two plates, and both plates are required when this Standard is called for in the plans.

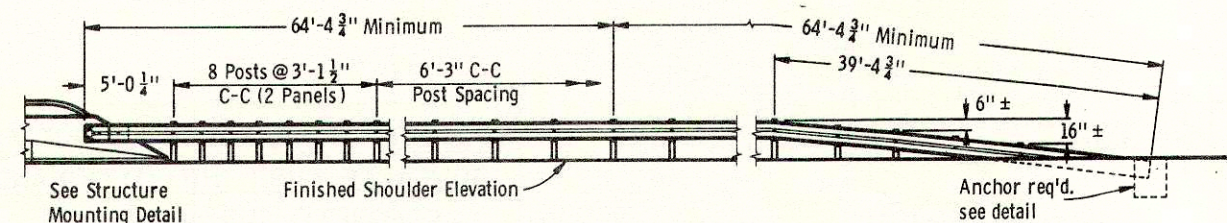


PLAN VIEW



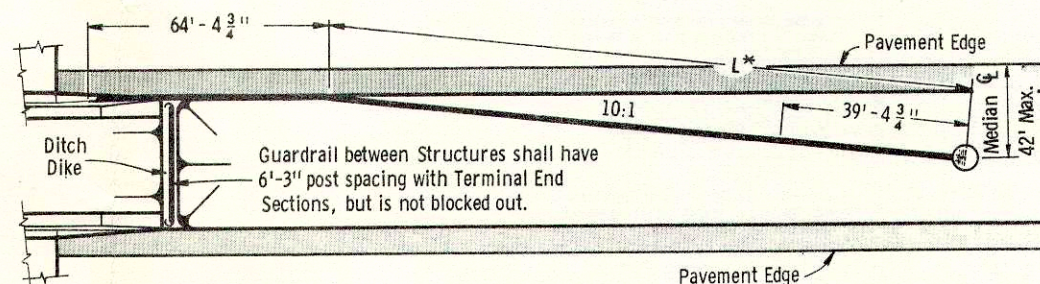
PLAN VIEW

TYPICAL INSTALLATION AT LOCATIONS OTHER THAN STRUCTURES



FRONT ELEVATION

TYPICAL OUTSIDE SHOULDER INSTALLATION AT STRUCTURES



PLAN VIEW

MEDIAN PROTECTION

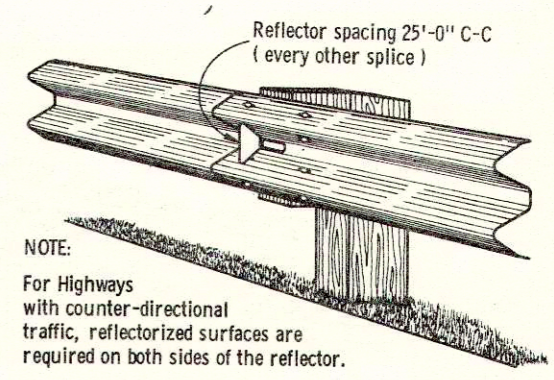
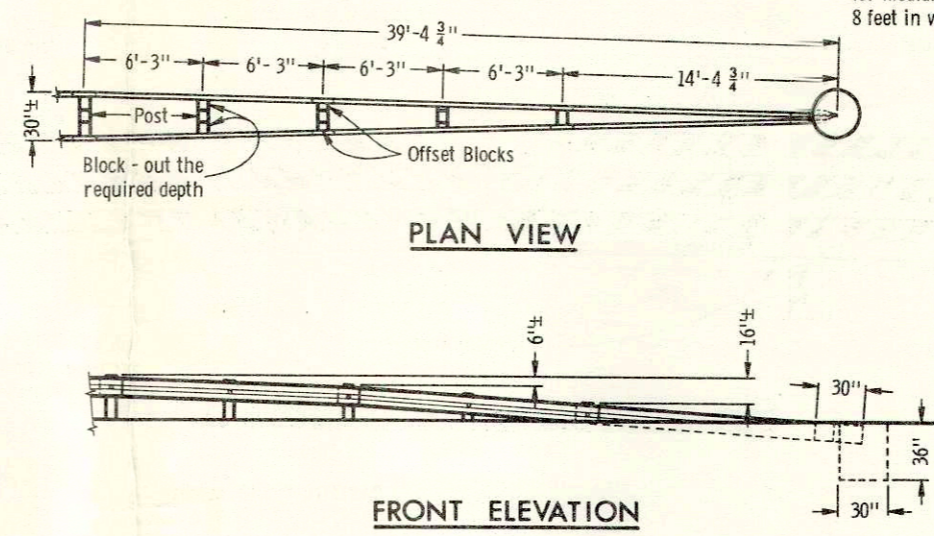
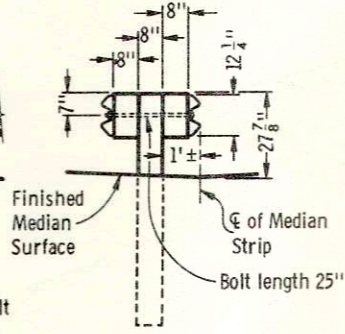
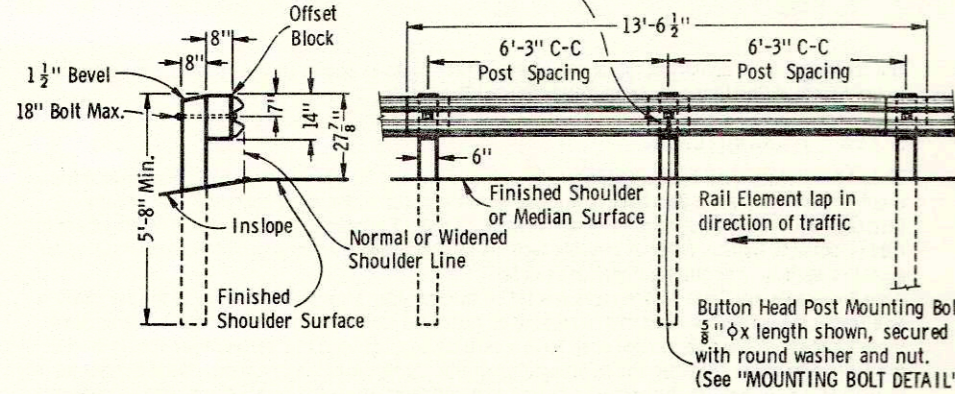
* Variable based on Median width

CLASS "A"
STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD
 State of Wisconsin
 Department of Transportation
 Division of Highways

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

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.

NOTE: Eliminate offset blocks for medians less than 8 feet in width.

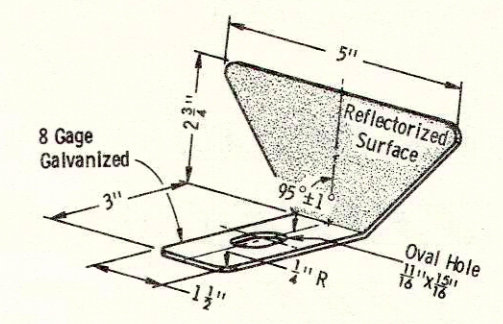
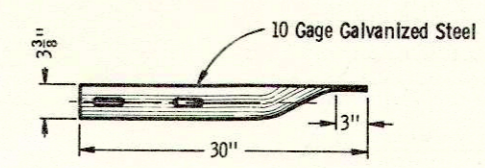
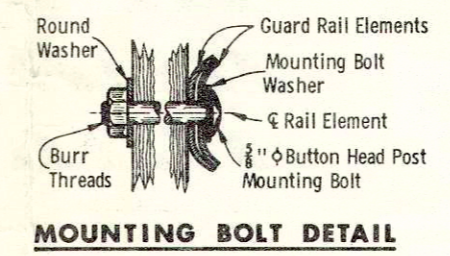
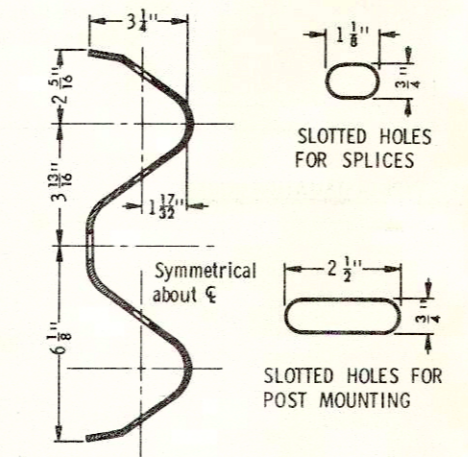
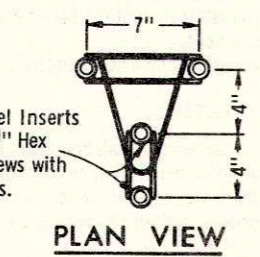
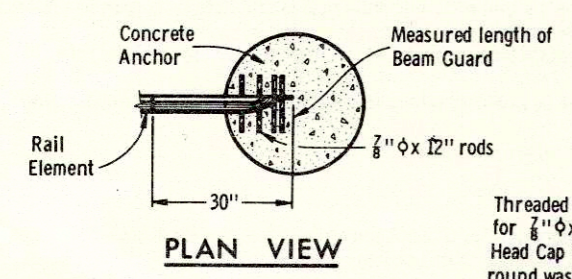


NOTE: For Highways with counter-directional traffic, reflectorized surfaces are required on both sides of the reflector.

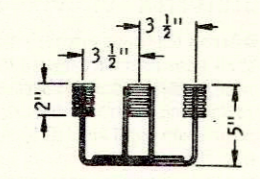
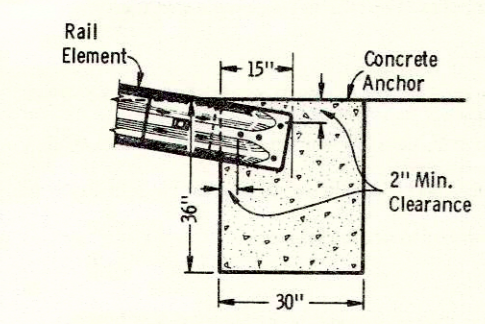
TYPICAL INSTALLATION

END ELEVATION FRONT ELEVATION END ELEVATION
STEEL PLATE BEAM GUARD STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD

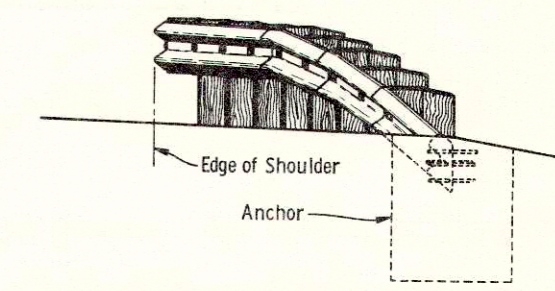
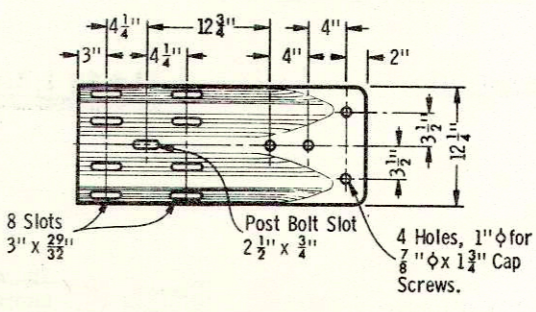
ANCHOR DETAIL FOR DOUBLE RAIL ELEMENT INSTALLATION



REFLECTOR DETAIL



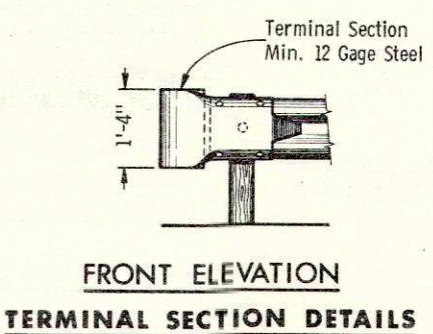
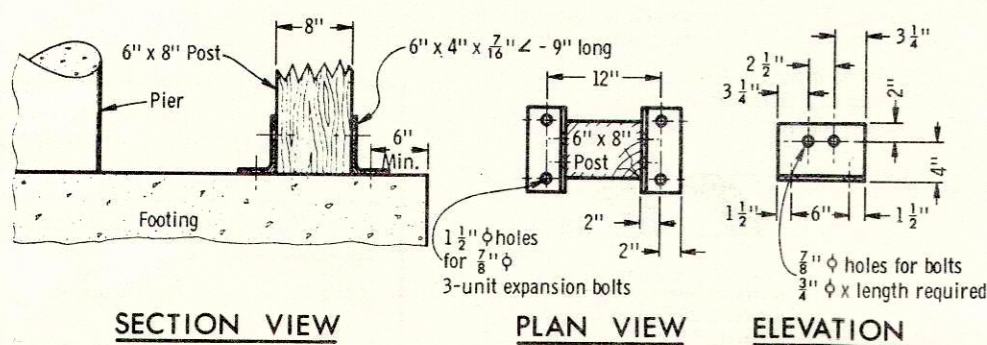
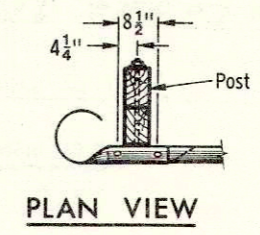
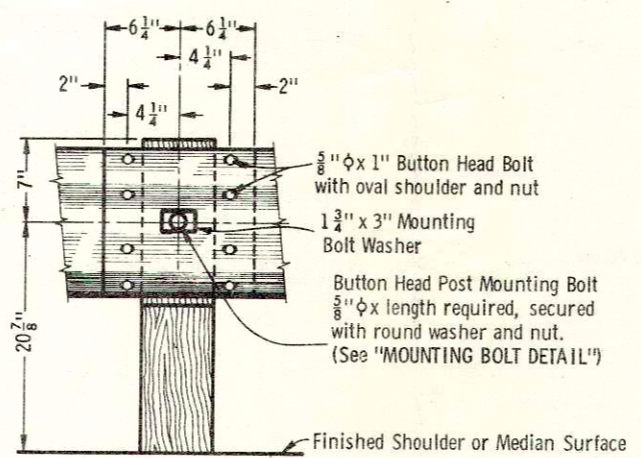
SECTION THRU RAIL ELEMENT MOUNTING BOLT WASHER



TYPICAL TERMINAL END ELEVATION

SECTION VIEW ANCHOR DETAIL
SINGLE RAIL ELEMENT INSTALLATION

ELEVATION 4 BOLT INSERT ASSEMBLY
 NOTE: Installation of 4 Bolt Insert Assembly (with Cap Screws inserted) to be part of Bridge Contract.



TERMINAL SECTION DETAILS

CLASS "A" STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD

State of Wisconsin
 Department of Transportation
 Division of Highways

RECOMMENDED FOR APPROVAL: 5/13/71
 DATE: 5/13/71
 APPROVED: 5/13/71
 DATE: 5/13/71
 ACTING CHIEF DESIGN ENGINEER
 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:

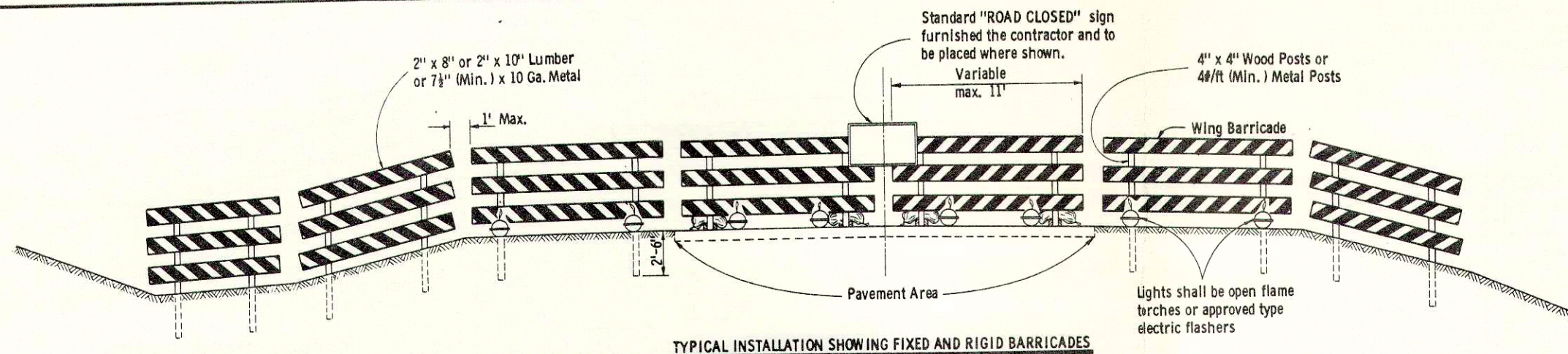
Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and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

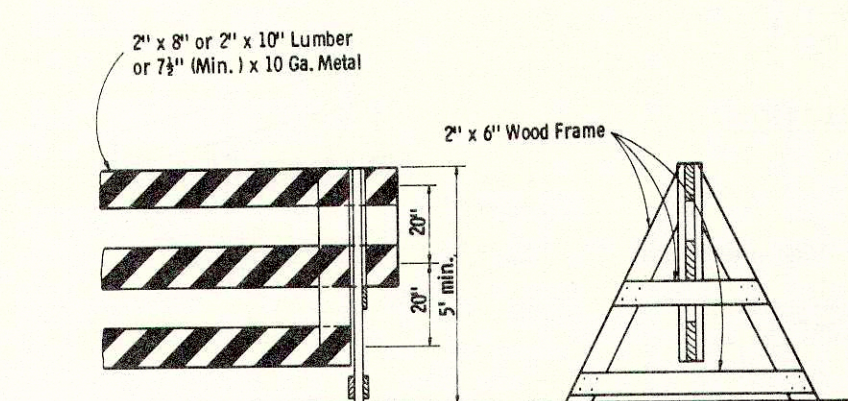
Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

MEASUREMENT & PAYMENT:

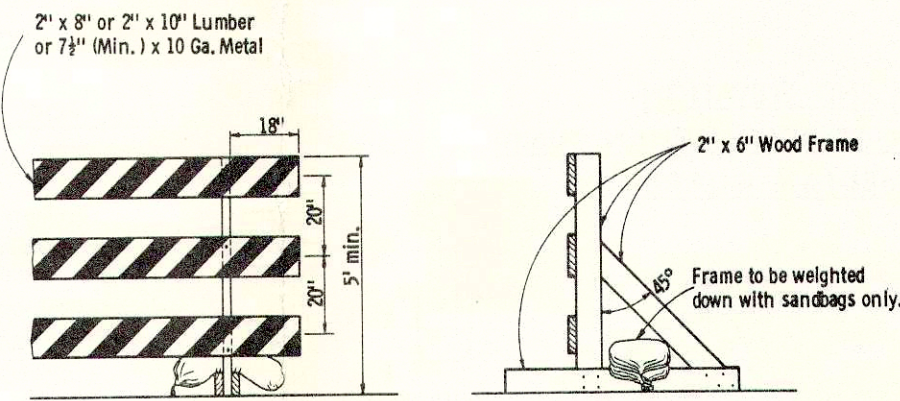
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

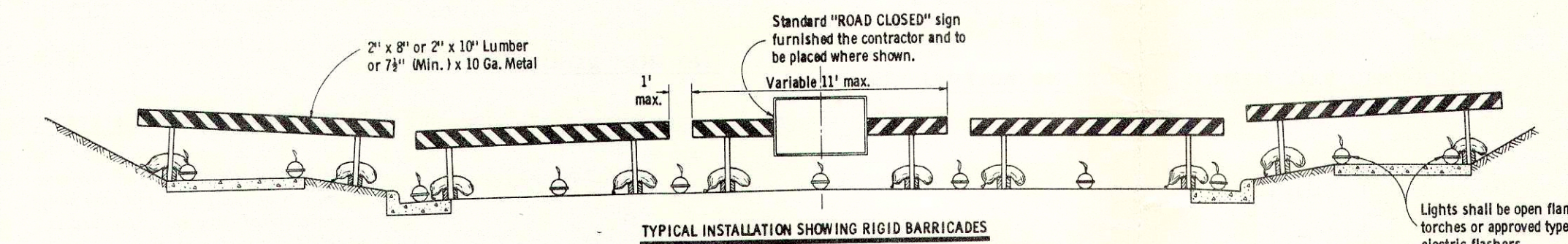


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

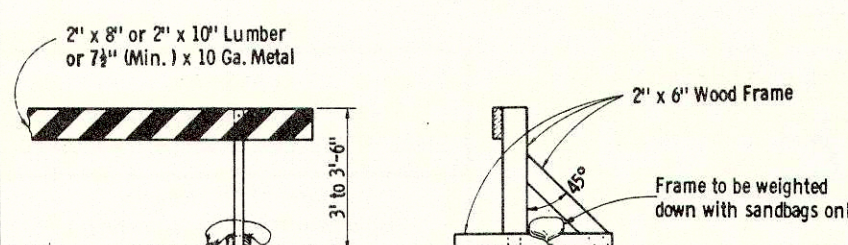


ALTERNATE TYPE INSTALLATION (RIGID)

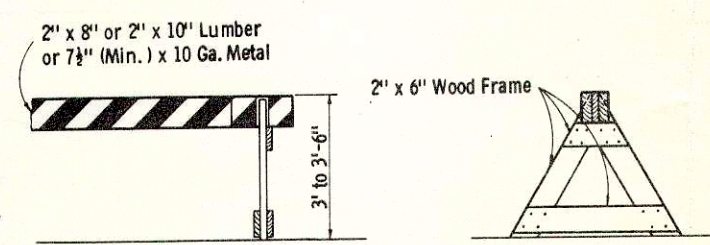
CLASS I BARRICADES



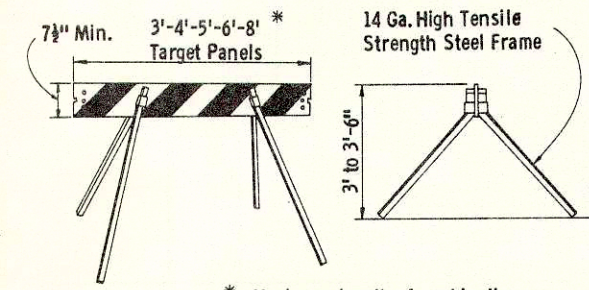
TYPICAL INSTALLATION SHOWING RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (RIGID)

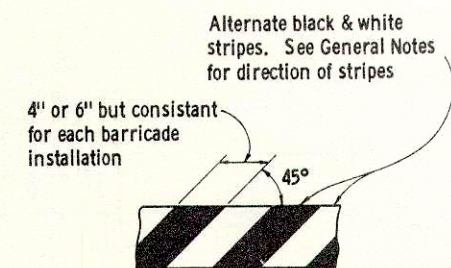


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADES



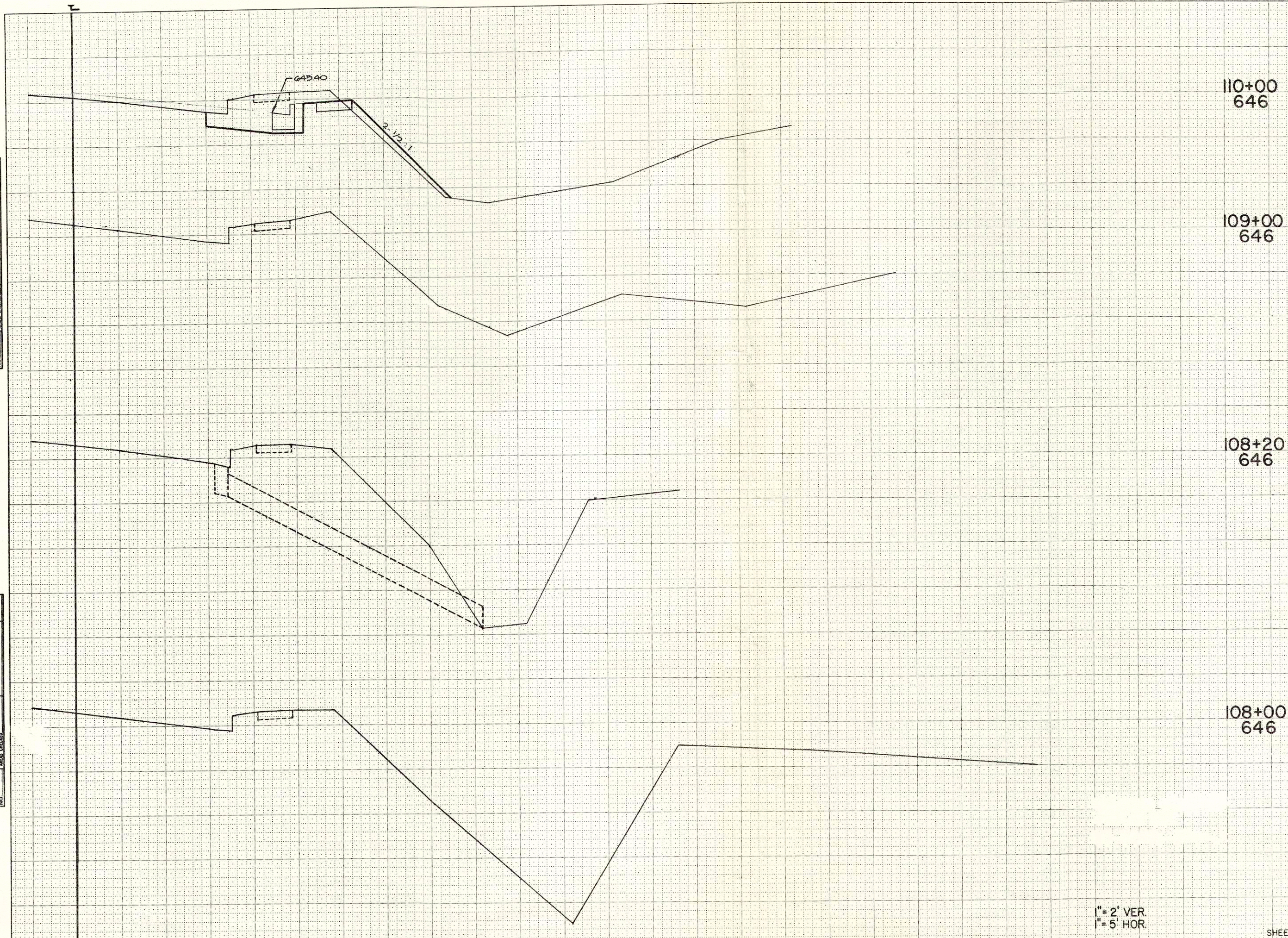
TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types of Barricades

CONSTRUCTION BARRICADE

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:
DATE 1/11/67
APPROVED: [Signature] CHIEF DESIGN ENGINEER
DATE 1/13/67
[Signature] STATE HIGHWAY ENGINEER

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	5200-1-71	7	11



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
UNCL			
10+00	26		7
09+00			
08+20			
08+00			
SHEET TOTAL	26		7

1" = 2' VER.
1" = 5' HOR.

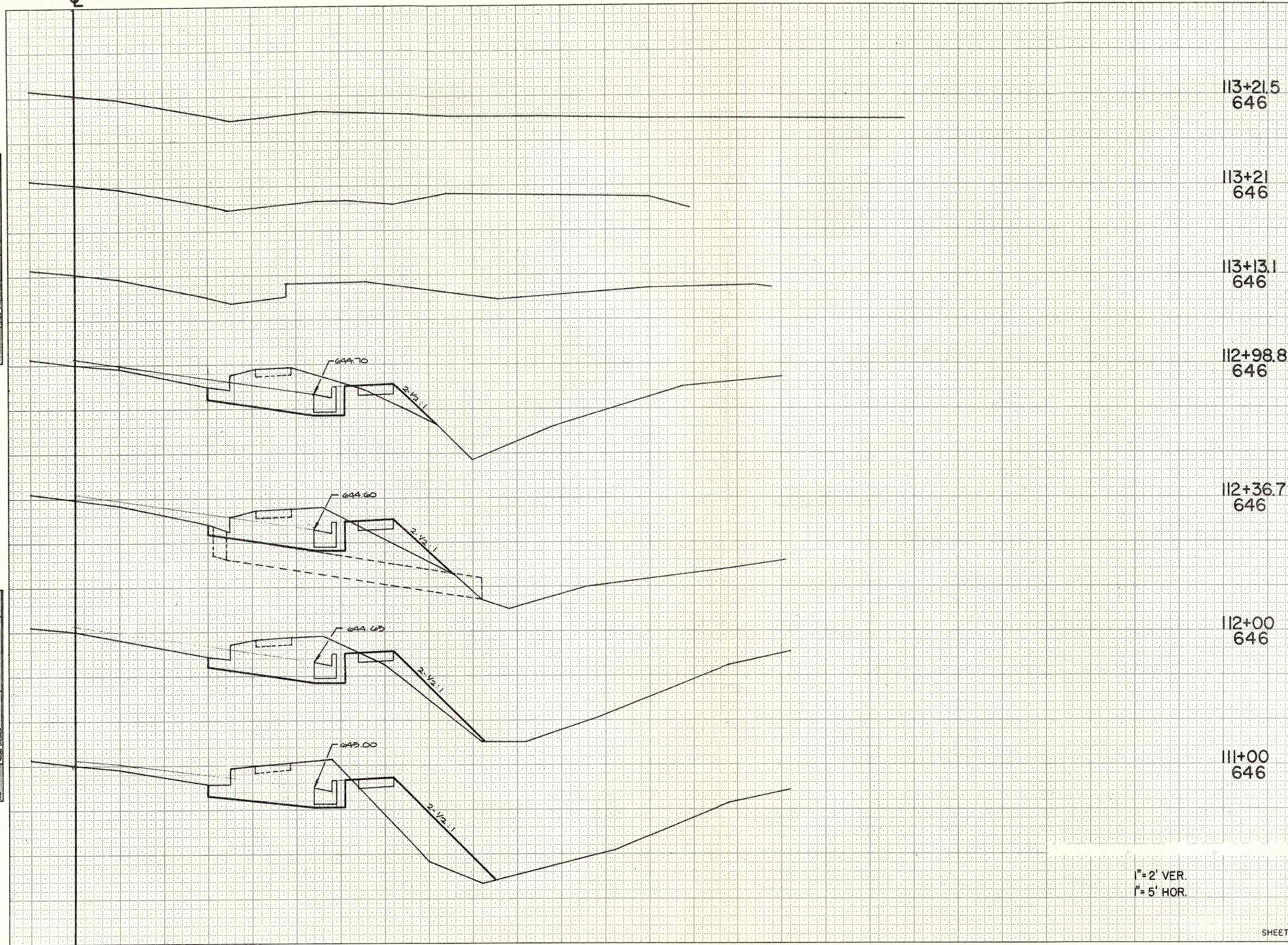
DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NO. _____

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NO. _____

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	5200-1-71	8	11



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
13+21.5 646			
110+00	100	74	26
111+00	100	86	14
112+00	26.7	26	0
112+36.7	28.2	44	0
112+98.8 646	43	0	2
113+00			
112+36.7 646			
112+00 646			
111+00 646			

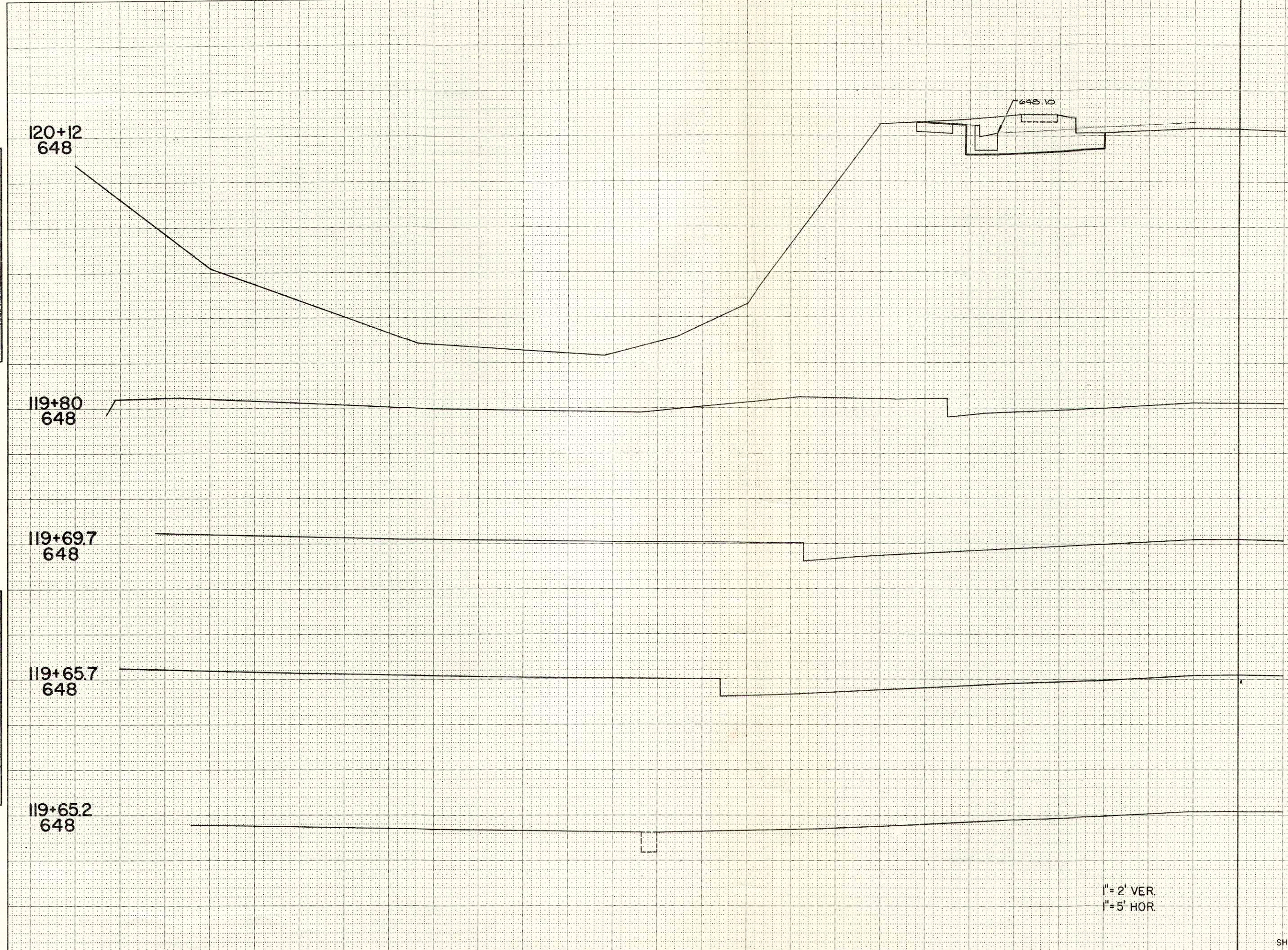
1" = 2' VER.
 1" = 5' HOR.

SHEET TOTAL 239 81

B.P.#.	REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	WIS.	5200-1-71	9	11

SURVEY NO. 10000
 COUNTY TOWN
 NOTE BOOK AREA CHECKED
 NO.

SURVEY NO. 10000
 COUNTY TOWN
 NOTE BOOK AREA CHECKED
 NO.



STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL.		
120+12				
119+80	25	9		0
119+69.7	12	8		0
119+65.7				
119+65.2				
SHEET TOTAL		17		0

1" = 2' VER.
1" = 5' HOR.

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	5200-1-71	10	11

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL.	

120			
121	88	63	19
122	88	80	31
123			
124			
125			
126			
127			
128			
129			
130			

SHEET TOTAL 143 560

22+00
648

HIGH WATER ELEV. 1965

21+00
648

HIGH WATER ELEV. 1965

1" = 2' VER
1" = 5' HOR

DATE: _____
 SURVEY BY: _____
 PLANNED BY: _____
 CHECKED BY: _____
 SCALE: _____
 SHEET NO.: _____
 TOTAL SHEETS: _____

DATE: _____
 SURVEY BY: _____
 PLANNED BY: _____
 CHECKED BY: _____
 SCALE: _____
 SHEET NO.: _____
 TOTAL SHEETS: _____

B.P. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	5200-1-71	11	11

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
124+00	0		
123+00	0		
123+00	8	63	22
124+00	8	22	6
UNCL.			
TOTAL		85	28

124+00
648

123+00
648

HIGH WATER ELEV. 1965

HIGH WATER ELEV. 1965

REVISIONS:
SURVEYED: _____
PLOTTED: _____
NOTE BOOK: _____
AREA: _____
SCALE CHECKED: _____
NO. _____

REVISIONS:
SURVEYED: _____
PLOTTED: _____
NOTE BOOK: _____
AREA: _____
SCALE CHECKED: _____
NO. _____

← WATER

1" = 2' VER.
1" = 5' HOR.

SHEET TOTAL 85 28