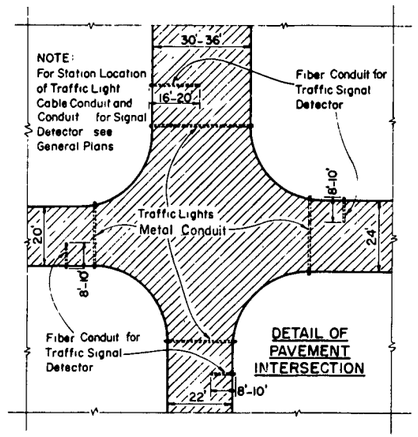
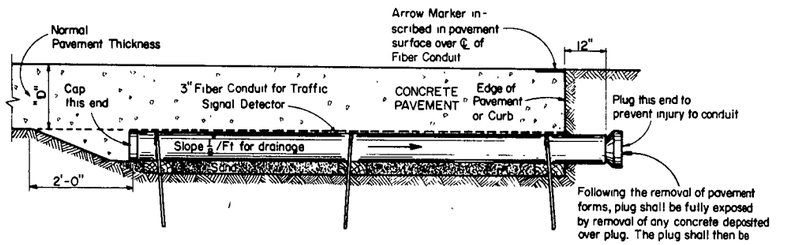
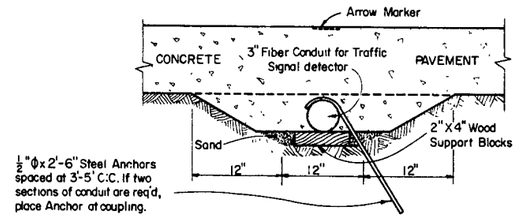


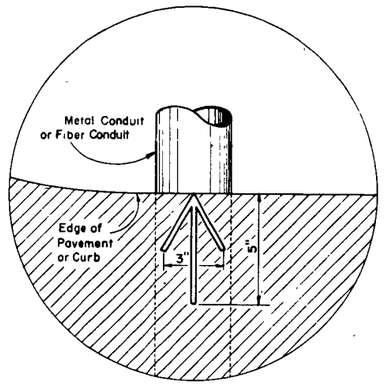
PLAN VIEW
SHOWING RELATIVE POSITION OF
TRAFFIC LIGHT CONDUITS AND
TRAFFIC SIGNAL DETECTOR CONDUITS
AT UNDIVIDED HIGHWAY INTERSECTIONS



TRAFFIC SIGNAL DETECTOR FOR
UNDIVIDED HIGHWAYS

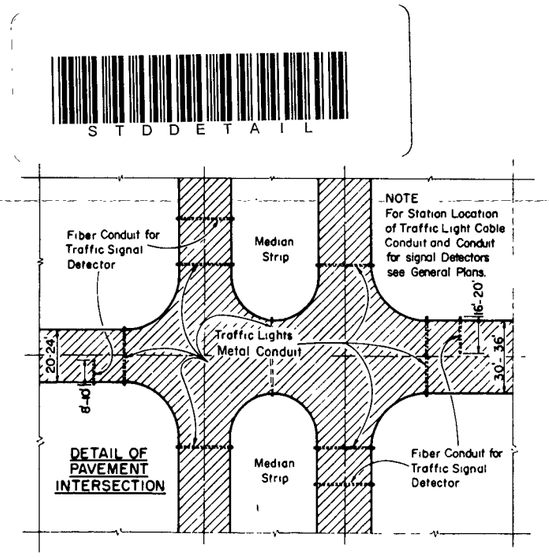


SIDE & END ELEVATIONS
SHOWING PLACEMENT DETAILS
FOR TRAFFIC SIGNAL DETECTOR CONDUIT

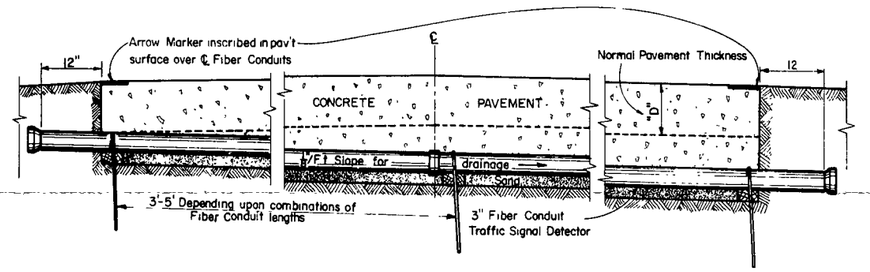


Arrow Marker to be inscribed in fresh concrete and/or bituminous surfacing 1/4 to 3/8 deep at each location where pipe conduit or fiber cond ore placed under rigid surfacing

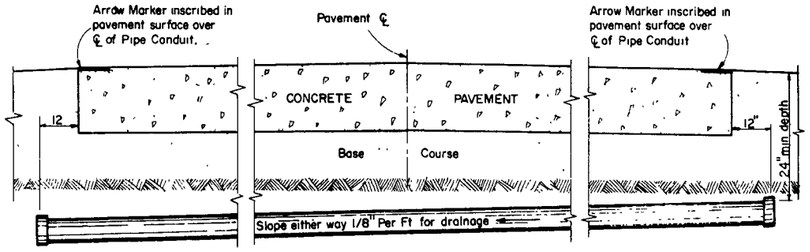
PLAN VIEW - ARROW MARKER



PLAN VIEW
SHOWING RELATIVE POSITION OF
TRAFFIC LIGHT CONDUITS AND
TRAFFIC SIGNAL DETECTOR CONDUITS
AT DIVIDED HIGHWAY INTERSECTIONS



TRAFFIC SIGNAL DETECTOR FOR
DIVIDED HIGHWAYS



ELEVATION ON CENTERLINE
SHOWING PLACEMENT DETAILS
FOR TRAFFIC SIGNAL CONDUIT

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

MATERIALS

Metal Conduit shall be furnished and placed as shown hereon and in accord with the Standard Specifications.

Fiber Conduit shall be furnished and placed as shown hereon and in accord with the Standard Specifications

MEASUREMENT & PAYMENT

The item of Fiber Conduit shall be measured and paid for by the linear foot complete in place and in accord with Standard Specifications

CONDUIT SIZE

Unless shown or required otherwise on the plans, Metal Conduit shall be 2" I.D.

METAL CONDUIT & FIBER CONDUIT

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

4-3-63
DATE

J. S. Pelt
ENGINEER OF DESIGN

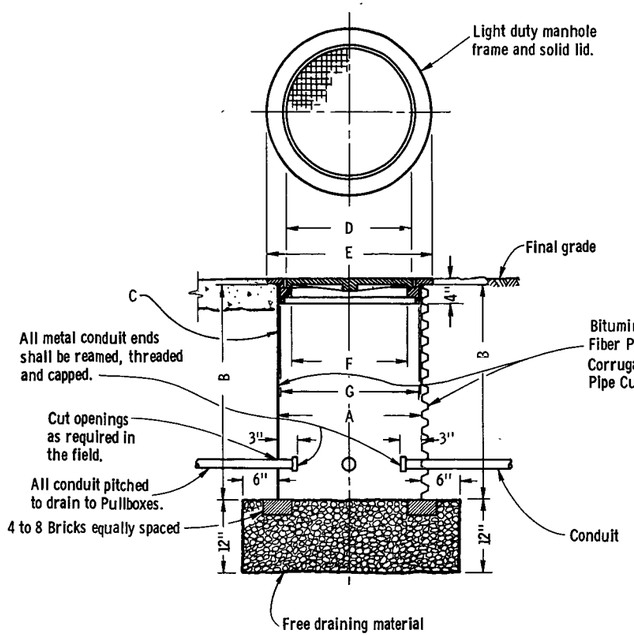
APPROVED

4/5/63
DATE

E. L. Roettiger
STATE HIGHWAY ENGINEER

S.D.D. 9B2-1

S.D.D. 9B2-1

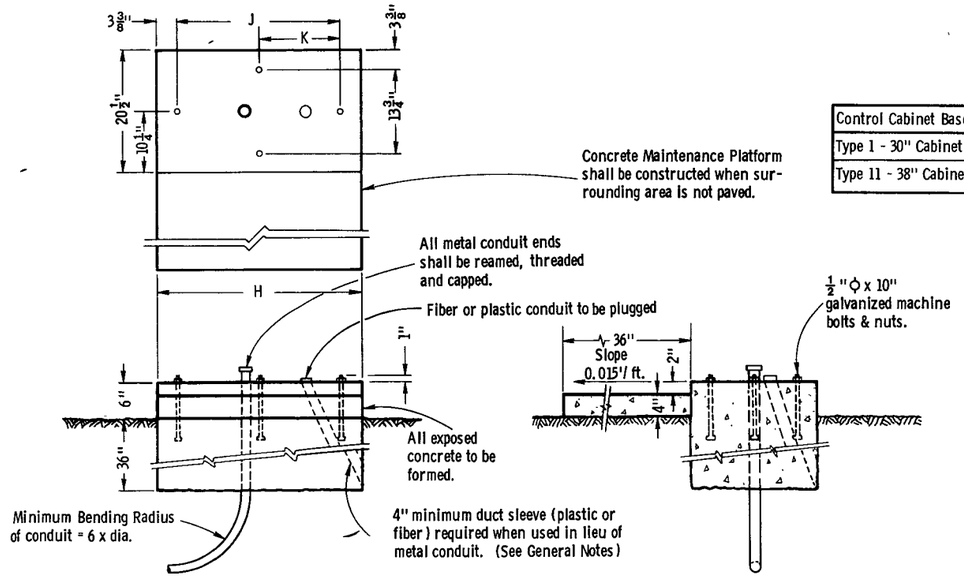


PIPE TYPE		BITUMINOUS FIBER				CORR. METAL
Pipe Dia. (Inside)	A	12"	18"	24"	24"	24"
Pipe Length	B	24"	24"	24"	36"	36"
Wall Thickness	C	0.4"	0.4"	0.4"	0.4"	.064"
Manhole Lid	D	$10\frac{1}{4}$"	$16\frac{1}{4}$"	$22\frac{1}{4}$"	$22\frac{1}{4}$"	$22\frac{1}{4}$"
Manhole Frame	E	$14\frac{1}{2}$"	$20\frac{1}{2}$"	$26\frac{1}{2}$"	$26\frac{1}{2}$"	$26\frac{1}{2}$"
Manhole Frame	F	$8\frac{1}{2}$"	$14\frac{1}{2}$"	$20\frac{1}{2}$"	$20\frac{1}{2}$"	$20\frac{1}{2}$"
Manhole Frame	G	$11\frac{1}{2}$"	$17\frac{1}{2}$"	$23\frac{1}{2}$"	$23\frac{1}{2}$"	$23\frac{1}{2}$"
Lid & Frame	---	55#	100#	160#	160#	160#

SHOWING INSTALLATION IN PAVED LOCATION

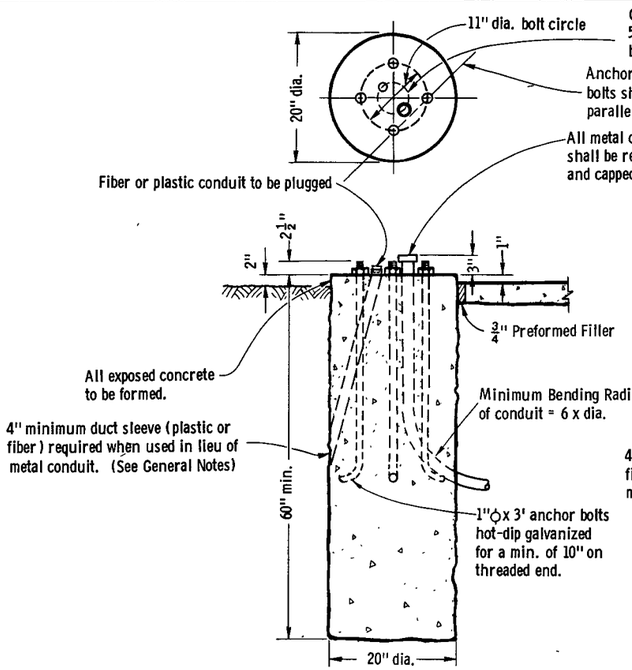
SHOWING INSTALLATION IN UNPAVED LOCATION

PULL BOX AND DETECTOR BOX DETAIL



Control Cabinet Base	H	J	K
Type 1 - 30" Cabinet	34"	$27\frac{1}{4}$"	$13\frac{5}{8}$"
Type 11 - 38" Cabinet	42"	$35\frac{1}{4}$"	$17\frac{5}{8}$"

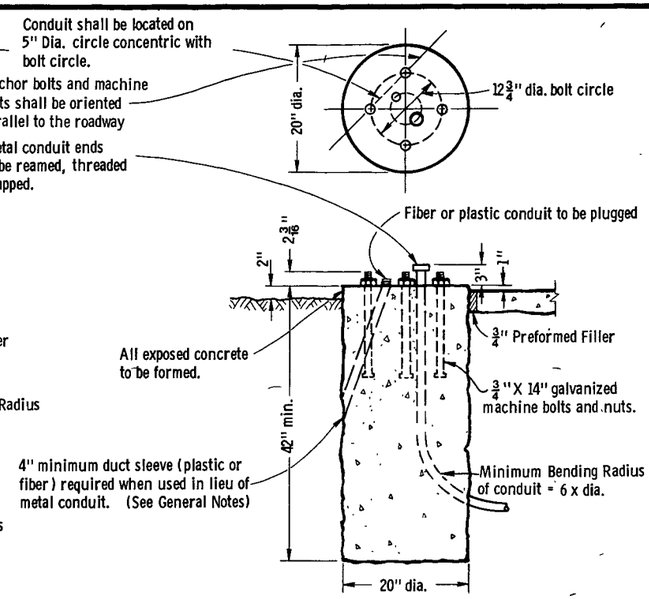
TRAFFIC SIGNAL AND TRAFFIC COUNTER CONTROL CABINET BASE
TYPE 1 and 2



SHOWING INSTALLATION IN UNPAVED LOCATION

SHOWING INSTALLATION IN PAVED LOCATION

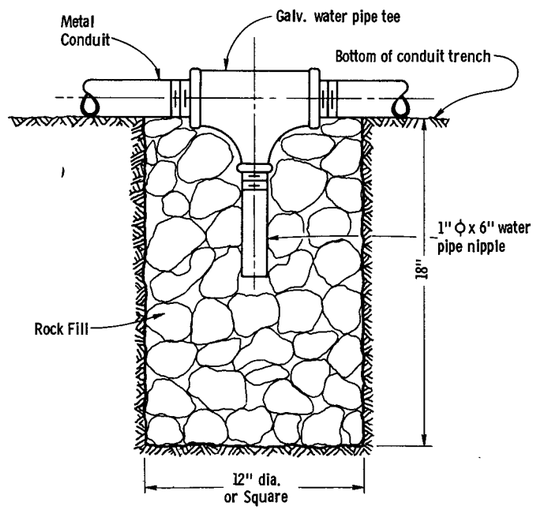
TRAFFIC SIGNAL BASE
TYPE 2



SHOWING INSTALLATION IN UNPAVED LOCATION

SHOWING INSTALLATION IN PAVED LOCATION

TRAFFIC SIGNAL BASE
TYPE 1



Note: Install as required at points in conduit for drainage.

DRAIN SUMP FOR METAL CONDUIT

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.

Conduit may be metal, fiber or plastic. Locate as required. 12-inch min. bending radius applies to metal conduit only.

Concrete masonry shall be grade "AA".

Conduit installed as a continuous system between Pullboxes shall have a min. depth of 12 inches and shall always be below the pavement.

Detailed drawings for proposed alternate designs for "Traffic Signal and Traffic Counter Details" shall be submitted to the Engineer for approval.

TRAFFIC SIGNAL AND TRAFFIC COUNTER DETAILS

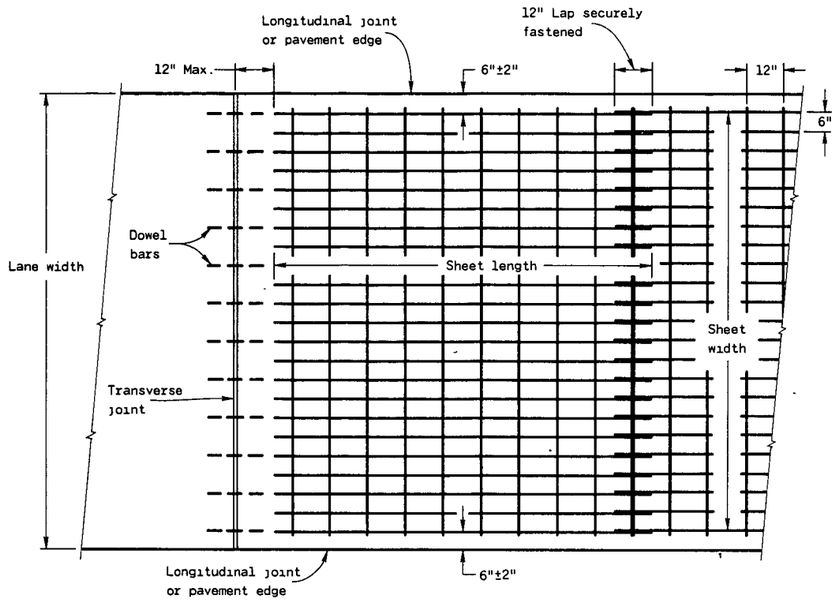
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
4-13-72 DATE — L. C. Bemis, CHIEF DESIGN ENGINEER

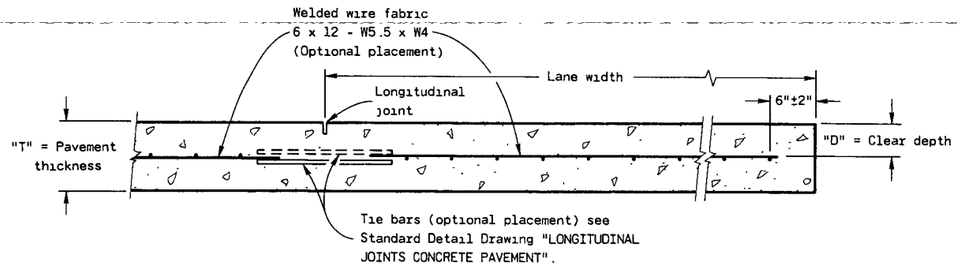
APPROVED
4-13-72 DATE — S. C. Hicks, STATE HIGHWAY ENGINEER

S.D.D. 9B3-2

S.D.D. 9B3-2



PLAN VIEW



CROSS SECTION

WELDED STEEL WIRE FABRIC

Pavement Thickness "T"	"D"
8"	$2\frac{1}{2}$" - 4"
9"	$2\frac{1}{2}$" - $4\frac{1}{2}$"
10"	3" - 5"

GENERAL NOTES

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

FABRIC SPECIFICATIONS

Wire spacing and size = 6" x 12", W5.5 x W4

Weight per 100 sq. ft.= 55 pounds (approx.)

Fabric shall be shipped to the job site in flat sheets.

CONCRETE PAVEMENT REINFORCEMENT

State of Wisconsin
Department of Transportation
Division of Highways

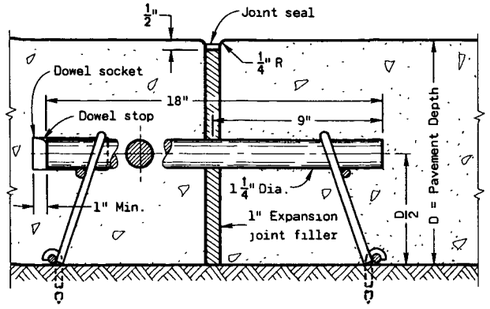
APPROVED 12-5-77 DATE — SUPERVISING DEVELOPMENT ENGINEER

APPROVED 12-6-77 DATE — CHIEF OF FACILITIES DEVELOPMENT

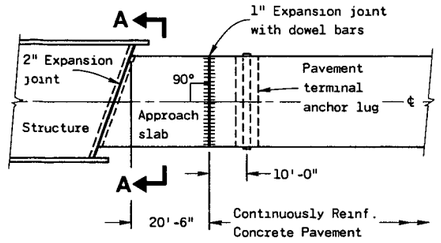
FHWA

S.D.D. 13A1-3

S.D.D. 13A1-3

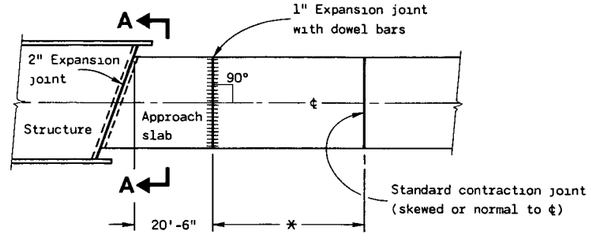


EXPANSION JOINT



APPROACH SLAB AND ADJACENT PAVEMENT

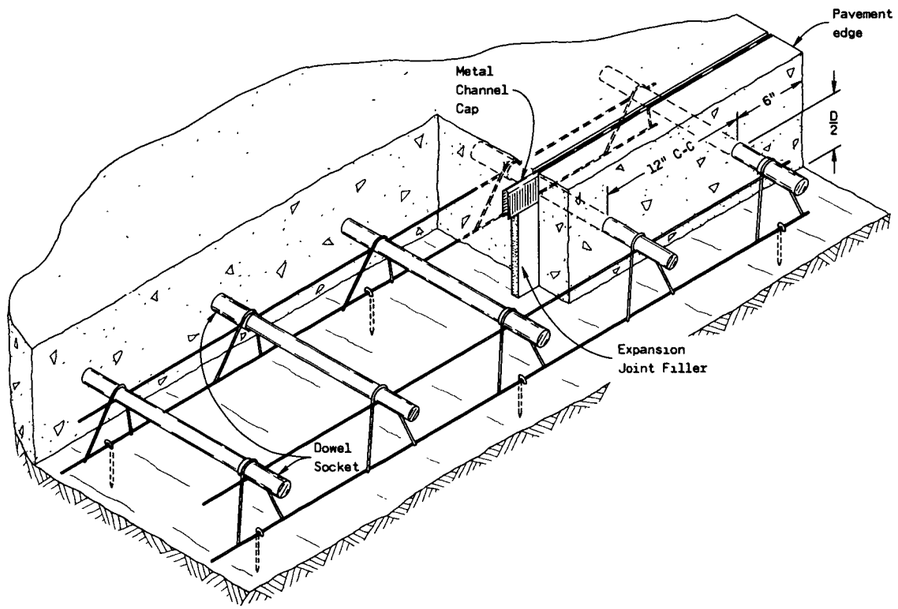
* 12' Min., 20' Max. for Non-reinforced Concrete Pavement.
40' ± 2' for Reinforced Concrete Pavement.



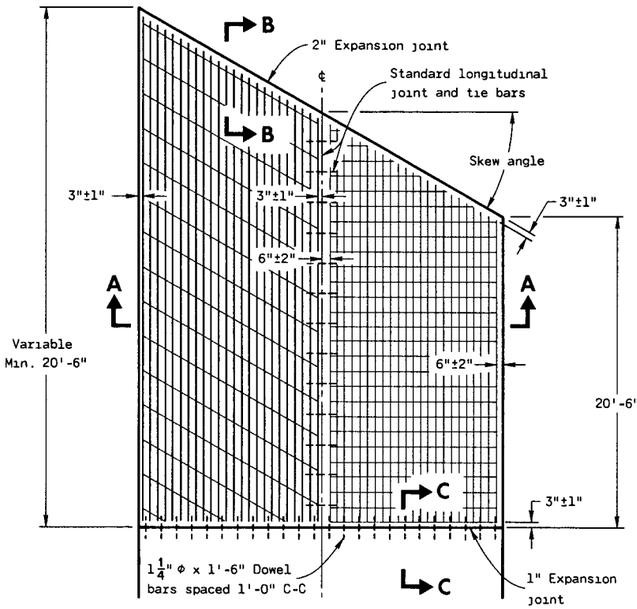
APPROACH SLAB AND ADJACENT PAVEMENT

BIDDING INFORMATION

APPROACH SLAB QUANTITIES (One slab, 24' wide)						
Skew Angle	Concrete Pavement		Welded Wire Fabric 6" x 12" - W5.5 x W4 (55 lbs./100 sq. ft.)		Steel Reinforcement (Grade 60)	
					No. 8 Bars	No. 4 Bars
	Sq. Yds.	Cu. Yds.	Sq. Yds.	Pounds	Pounds	Pounds
0°	54.7	18.2	54.7	271	2681	173
15°	63.2	21.1	63.2	313	3091	196
30°	73.2	24.4	73.2	362	3572	228
45°	86.7	28.9	86.7	429	4219	267
60°	110.1	36.7	110.1	545	5347	338



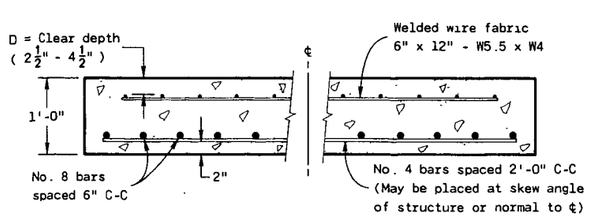
INSTALLING DEVICE FOR DOWEL BARS AND EXPANSION JOINT ASSEMBLY



HALF SECTION BOTTOM REINFORCEMENT

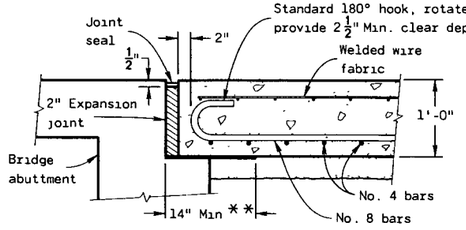
HALF SECTION TOP REINFORCEMENT

APPROACH SLAB



SECTION **A-A**

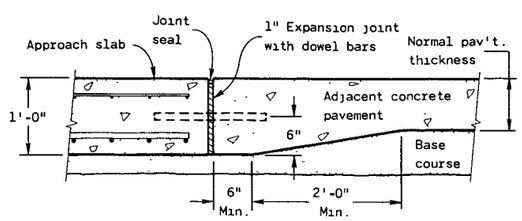
REINFORCEMENT POSITIONING DETAIL



SECTION **B-B**

BEND DETAIL
BOTTOM REINFORCEMENT

** Galvanized metal (Place full width of pavement and secure by nailing to base).



SECTION **C-C**

TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

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

DOWEL BARS
Dowel bars across expansion joints shall be corrosion resistant coated conforming to the requirements of AASHTO Designation M 254.

The coating type shall be, Type B - Thermosetting Epoxy.

JOINT SEALING
Expansion joints shall be sealed as follows:

1. On pavements having transverse contraction joints sealed with a poured type sealer, expansion joints shall be sealed with the same type sealant, 1/4" below pavement surface.
2. On pavements with no contraction joints, unsealed contraction or contraction joints sealed with compression type seals, expansion joints shall be sealed with a poured type sealer as specified in the plans or Special Provisions.

JOINT FILLER
Expansion joint filler between structure and approach slab may consist of two, 1 inch thicknesses of material.

WELDED WIRE FABRIC
Sheet widths of 8 feet are permitted.

STEEL REINFORCEMENT
Splicing of No 8 bars in the approach slab is permitted for skewed structures only. Splices shall be staggered, with a maximum of one splice per bar Laps shall conform to the Standard Specifications.

CONCRETE PAVEMENT APPROACH SLAB

State of Wisconsin
Department of Transportation
Division of Highways

APPROVED 8-29-78 DATE — SUPERVISING DEVELOPMENT ENGINEER
APPROVED 8-29-78 DATE — CHIEF OF FACILITIES DEVELOPMENT
FHWA

S.D.D. 13 B 2-2

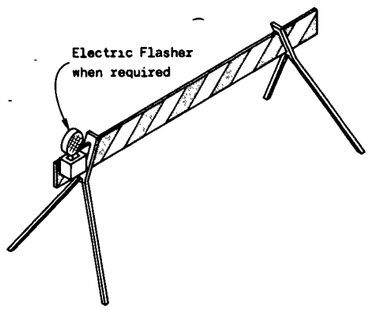
S.D.D. 13 B 2-2

TABLE OF BARRICADE CHARACTERISTICS

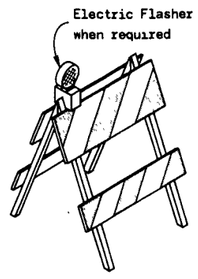
BARRICADE TYPE	I	II	III
Height	3' Minimum		5' Minimum
* Rail Width	8" Minimum to 12" Maximum		
Rail Length	2' Minimum to variable Maximum		
** Stripe Width	6" at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

* Nominal dimensions when barricade is constructed of lumber.

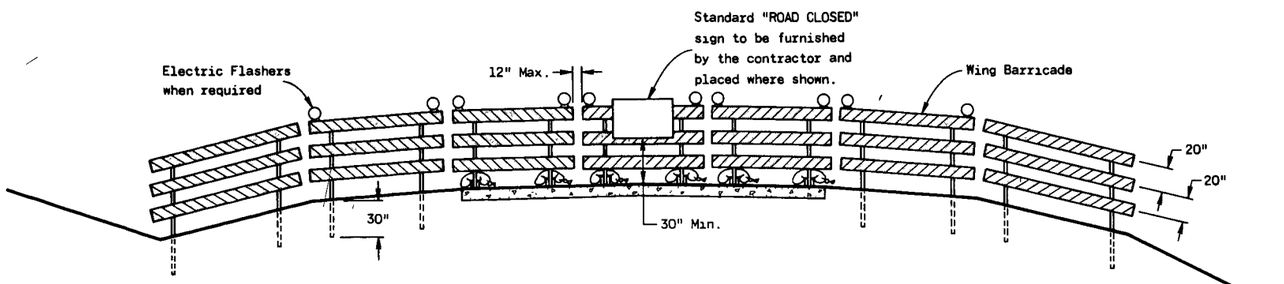
** May be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

CONSTRUCTION BARRICADES

R11-2

48" x 30"

Black Lettering on Reflective
White Background
Letter Series "D"
Letter height 8"

W20-3

48" x 48"

Black Lettering on Reflective
Orange Background
Letter Series "D"
Letter height 7"

STANDARD SIGNS-TYPE II

GENERAL NOTES

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

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

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

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

Each barricade shall have the name and telephone number of a person responsible for 24 hour emergency service printed in letters at least 3/4 inch in height.

CONSTRUCTION BARRICADES & STANDARD SIGNS

State of Wisconsin
Department of Transportation
Division of Highways

APPROVED 10-1-76 DATE — CHIEF OF FACILITIES DEVELOPMENT

APPROVED 10-1-76 DATE — STATE HIGHWAY ENGINEER

S.D.D. 15C1-5

S.D.D. 15C1-5