

AS Built

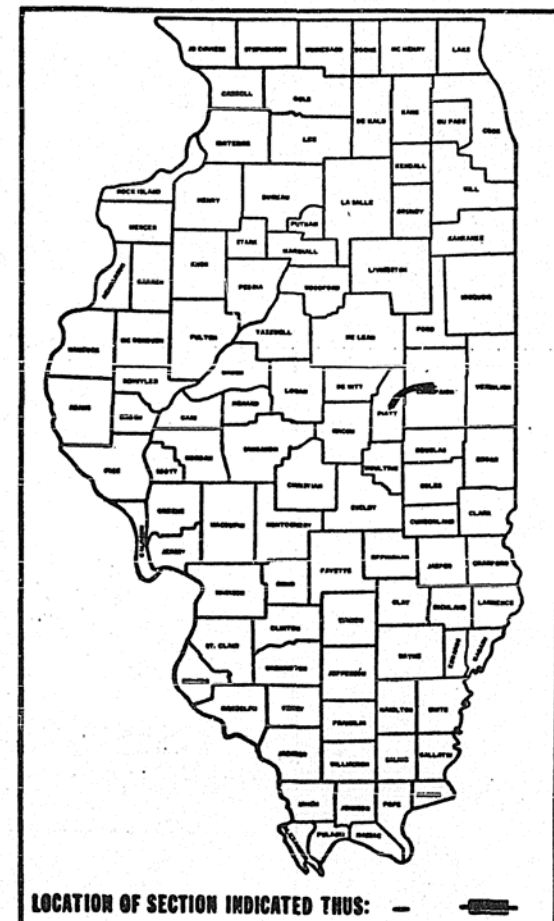
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY
FAI ROUTE 72

SEC. DISTRICT 5 BRIDGE DECK
WATERPROOFING 1975-2

CHAMPAIGN & PIATT COUNTIES

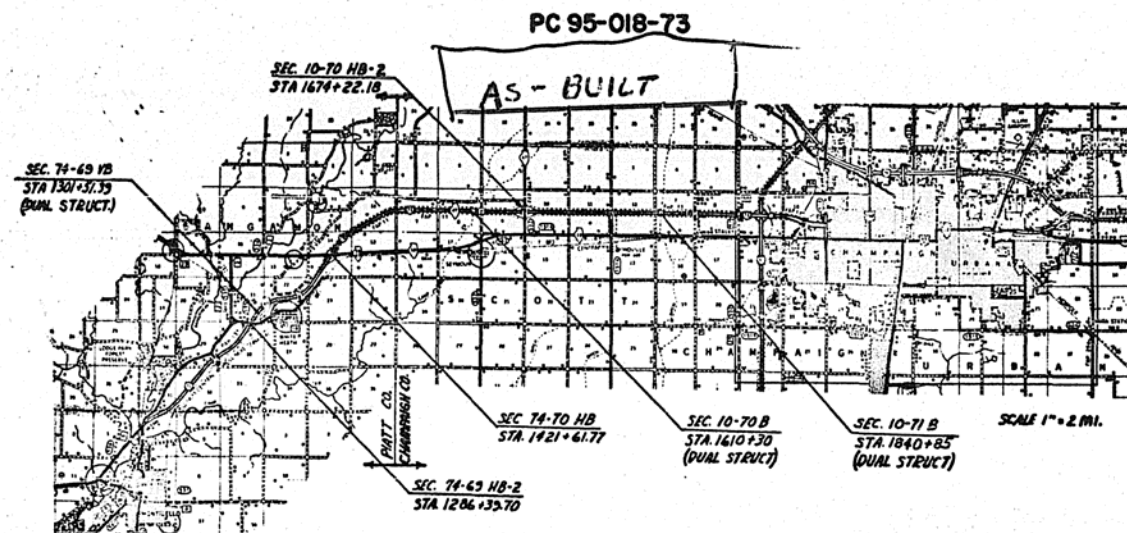
PROJ. I-72-0(2)66

FEDERAL-AD ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	CHAMPAIGN PIATT	7	1
FED. ROAD DIST. NO. 2				
* DISTRICT 5 BRIDGE DECK WATERPROOFING 1975-2				



LOCATION OF SECTION INDICATED THUS: —

INDEX OF SHEETS	
SHEET NO.	ITEM
1	COVER SHEET
2	SUMMARY OF QUANTITIES, BRIDGE DIMENSION SCHEDULE, GENERAL NOTES
3/4	WATERPROOFING MEMBRANE SYSTEM AND CLASS 1 TYPICALS
5/6	DETAILS OF EXPANSION DEVICES
7	TYPICAL TRAFFIC CONTROL FOR RAMP
STANDARDS	
2290-4	2300-3
2293-5	2316-3
2300-1	



Revised sheet
10-2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
SUBMITTED <u>July 2, 1974</u>	<u>J. C. Mulgrew</u> DISTRICT ENGINEER
EXAMINED <u>March 27, 1975</u>	<u>Thomas R. Brought</u> ENGINEER OF PLANS AND CONTRACTS
PASSED <u>March 27, 1975</u>	<u>Thomas R. Brought</u> ENGINEER OF DESIGN
APPROVED <u>March 27, 1975</u>	<u>J. B. Healy</u> DIRECTOR, OF HIGHWAYS

AS BUILT

H. Shuey
RESIDENT ENGINEER

DE	FE	CC	FF
DIVISION			

TOTAL LENGTH OF SECTION 55,445.30 ± 10.501 MI.
NET LENGTH OF SECTION 2,599.98 ± 0.432 MI.
LENGTH OF PROJECT 2,599.98 ± 0.492 MI.

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
PA. 1. 72	8	PATTY CHAMPAIGN	7	2
FED. ROAD DIST. NO. 8 ILLINOIS PROJECT				
* DIST. 5 BRIDGE DECK WATERPROOFING 1975-2				

GENERAL NOTES

THESE SECTIONS CONSIST OF FURNISHING AND PLACING A WATERPROOFING MEMBRANE SYSTEM ON 9 BRIDGE DECKS AT 6 LOCATIONS. THE CONSTRUCTION OF A 1 1/4" BITUMINOUS CONCRETE SURFACE COURSE, CLASS I, AS A WEARING SURFACE OVER THE WATERPROOFING MEMBRANE SYSTEM, SEALING OF BRIDGE EXPANSION JOINTS AND OTHER INCIDENTAL WORK NECESSARY TO COMPLETE THE WORK.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

BRIDGE DIMENSION SCHEDULE

ROUTE	BRIDGE	STATION	NO. STR.	DECK SLAB LENGTH	O. TO O. AND RDWY. WIDTH	SKEN	NO. JTS. PER STR.	DIMENSIONS ACROSS ONE BRIDGE				CASE
								STEEL BAR LENGTH	PREFORMED JT. SEALER, 2 1/2"	PREFORMED JT. SEALER, 1 1/4"	NEOPRENE EXPANSION DAM	
PA. 1. 72	74-63HB-2	1286+39.7	1	278'-5"	33'-8", 28'-4"	23'-15'-20"	2	-	-	6'-0"	30'-5"	IV & V
PA. 1. 72	74-63VB	1301+51.39	2 W.B. E.B.	149'-4 1/4" 149'-6 1/4"	33'-8", 30'-2 3/4" 33'-8", 30'-6 1/4"	5'-30'-46"	2	-	-	6'-5"	30'-3"	IV & V
PA. 1. 72	74-70HB	1421+61.77	1	266'-2"	34'-0", 30'-6"	33'-38'-54"	2	38'-7"	38'-7"	-	-	I & III
PA. 1. 72	10-70B	1610+30.00	2 W.B. E.B.	85'-2 1/4" 85'-3 1/6"	42'-6", 39'-0" 42'-6", 39'-0"	5'	2	-	-	-	-	
PA. 1. 72	10-70HB-2	1674+22.18	1	220'-8"	34'-0", 30'-6"	0"	2	-	-	2'-0"	32'-0"	IV & V
PA. 1. 72	10-71B	1840+85.00	2 W.B. E.B.	80'-11 1/4" 80'-10 1/4"	42'-6", 39'-1 1/4" 42'-6", 39'-0 1/4"	4'-30'	2	-	-	-	-	

SUMMARY OF QUANTITIES

SECTION	SECTION	SECTION	SECTION	SECTION	SECTION
74-63HB-2	74-63VB	74-70HB	10-70B	10-70HB-2	10-71B
STA 1286+39.7	STA 1301+51.39	STA 1421+61.77	STA 1610+30.0	STA 1674+22.18	STA 1840+85.0
	DUAL STR.		DUAL STR.		DUAL STR.

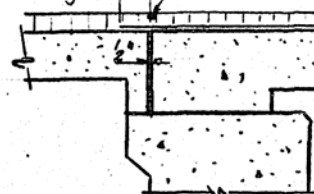
CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE Y007							
				PATT COUNTY				CHAMPAIGN COUNTY			
406001	BITUMINOUS MATERIALS (PRIME COAT)	GALLONS	504 ⁹⁹⁶	44	88	44	88	44	88		
406005	LEVELING BINDER (MACHINE METHOD)	TONS	*10	*3	*7	-	-	-	-		
406008	BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TONS	1216 ⁶⁹¹	110	147	112	144	97	111		
507001	FURNISHING & ERECTING STRUCTURAL STEEL	POUNDS	1181	-	-	1181	-	-	-		
646001	ENGINEERS FIELD OFFICE, TYPE A	EACH	1	0.15	0.2	0.15	0.2	0.1	0.2		
X04941	WATERPROOFING MEMBRANE SYSTEM	SQ. YDS.	4978	376	1009	902	739	749	703		
X64701	PAVEMENT MARKING TAPE	LIN. FT.	140	19	27	19	28	16	31		
Z10205	DECK SLAB REPAIR (PARTIAL)	SQ. YDS.	88*	52*	36*	0	0	0	0		
XZ1014	TRAFFIC CONTROL AND PROTECTION, STD. 2309	EACH	3	1	-	1	-	1	-		
XZ1089	TRAFFIC CONTROL AND PROTECTION, STD. 2316	LUMP SUM	1	-	.33	-	.33	-	.34		
XZ1182	NEOPRENE EXPANSION DAM	LIN. FT.	246	61	121	-	-	64	-		
X05250	PREFORMED JOINT SEALER, 1 1/4"	LIN. FT.	42	12	26	-	-	4	-		
XZ1186	PREFORMED JOINT SEALER, 2 1/2"	LIN. FT.	81	-	-	81	-	-	-		

* NON-PARTICIPATING

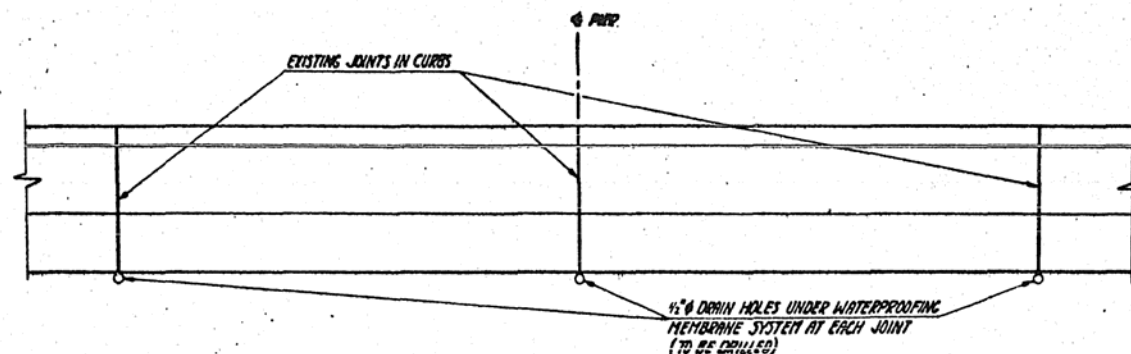
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
U.S. 73	4	CHAMPAIGN	7	3

DISTRICT 5 BRIDGE DECK
WATERPROOFING 1975-2

Extend Waterproofing
1/4" x 3/4" Sawed Joint
With Elastic Joint Filler

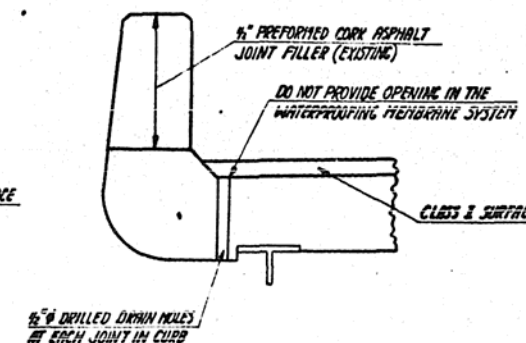
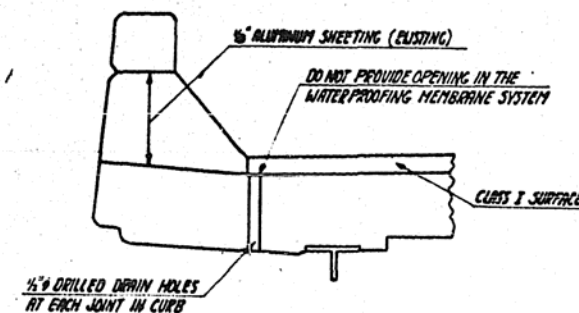


SECTION AT ABUTMENTS
TYP. SEC. 10-70B & 10-71B



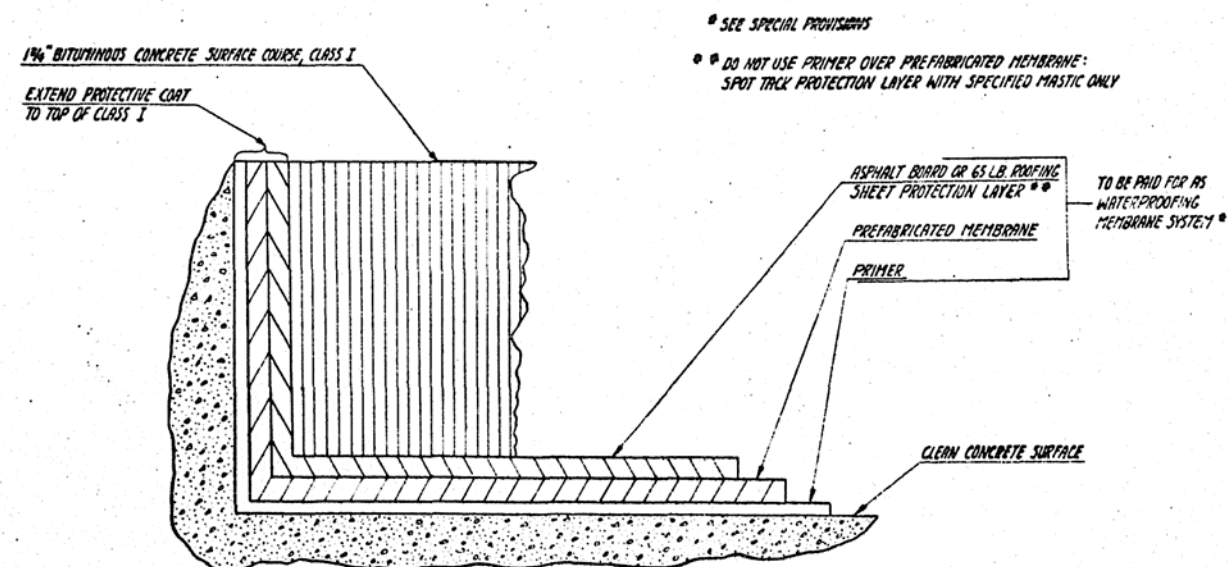
PLAN

NOTE: DRAIN HOLES SHALL BE PROVIDED IN THE DECK AT THE BASE OF ALL ALUMINUM SHEETED AND CORK JOINTS IN THE CURB OR PARAPET WHEN THE WATERPROOFING MEMBRANE SYSTEM IS SPECIFIED IN THE PLANS.

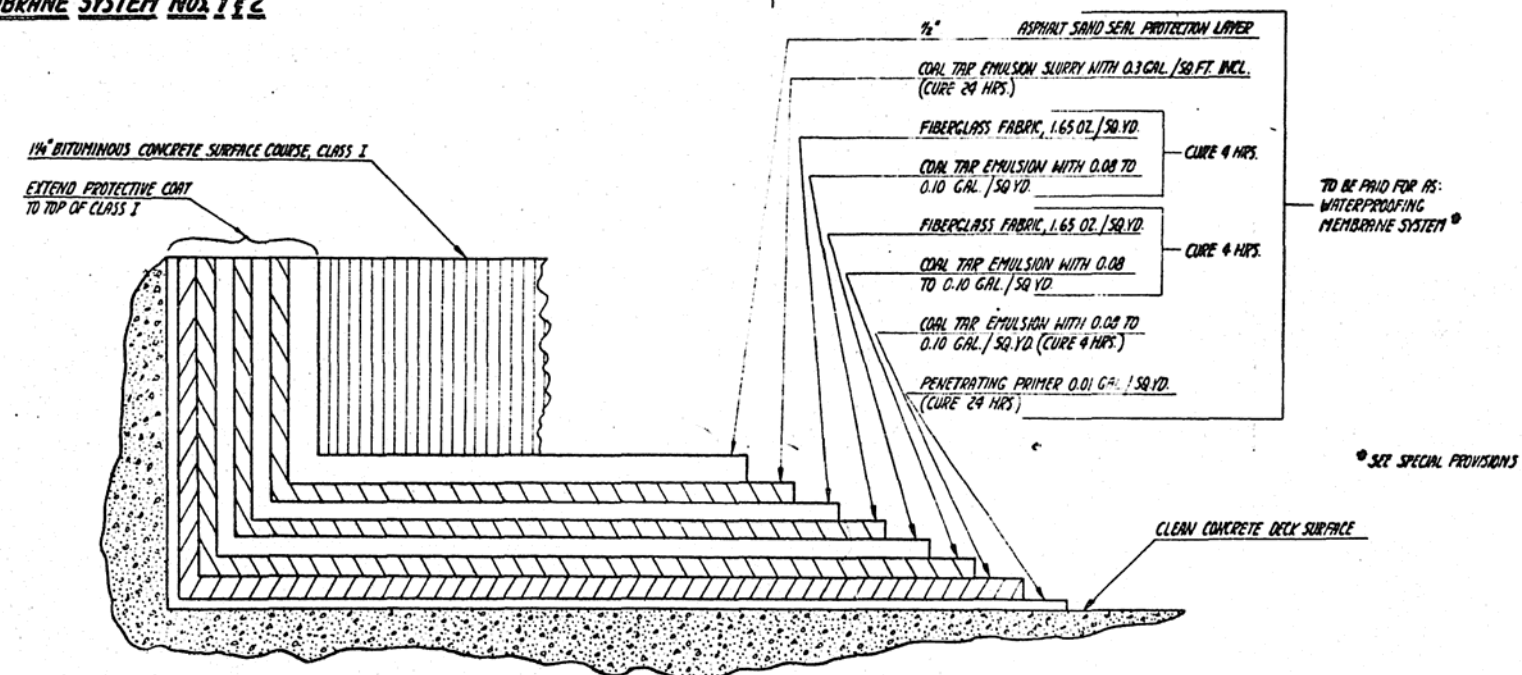


SECTIONS AT CURB JOINTS

WATERPROOFING MEMBRANE SYSTEM NO. 1 & 2



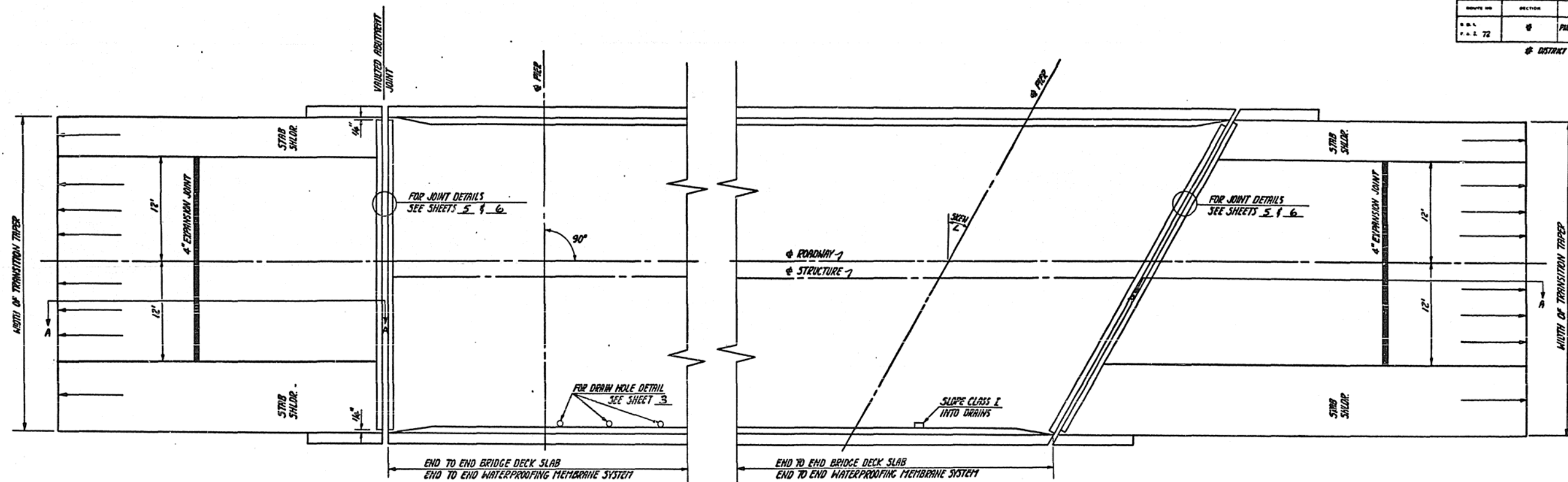
WATERPROOFING MEMBRANE SYSTEM
SYSTEM NO. 2



WATERPROOFING MEMBRANE SYSTEM
SYSTEM NO. 1

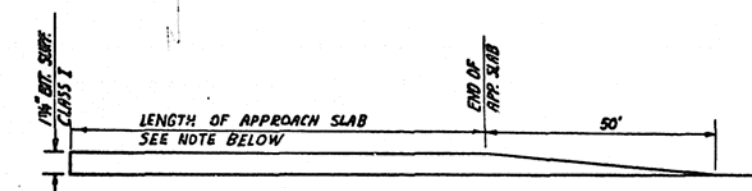
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.A.L. 72	4	PARTY 4 CHURCHMAN	7	4

DISTRICT 5 BRIDGE DECK WATERPROOFING 1975-2

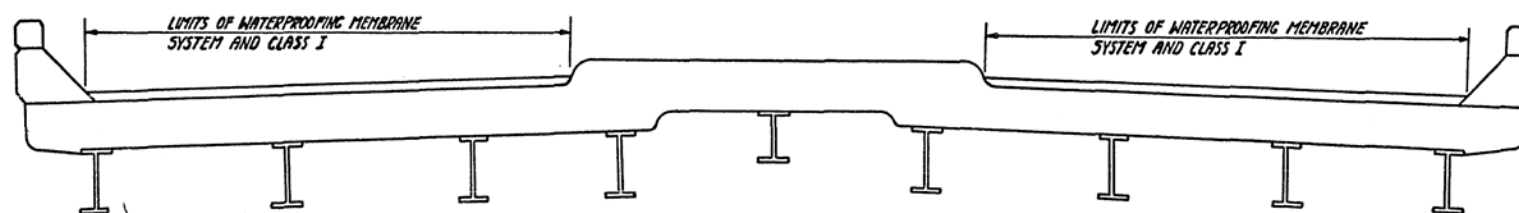


TYPICAL HALF PLAN AT RIGHT ANGLES

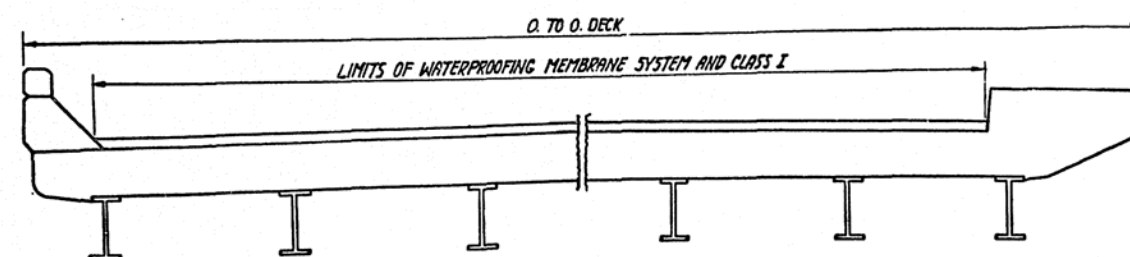
TYPICAL HALF PLAN ON SKEW



SECTION A-A
TYPICAL TRANSITION TAPER



TYPICAL DECK CROSS SECTION WITH MEDIAN

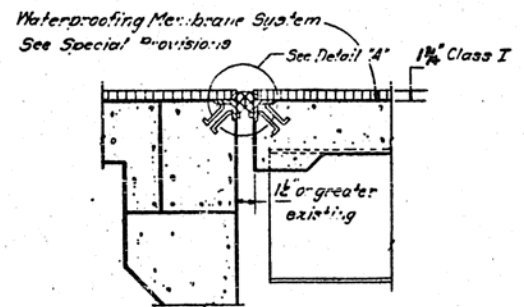
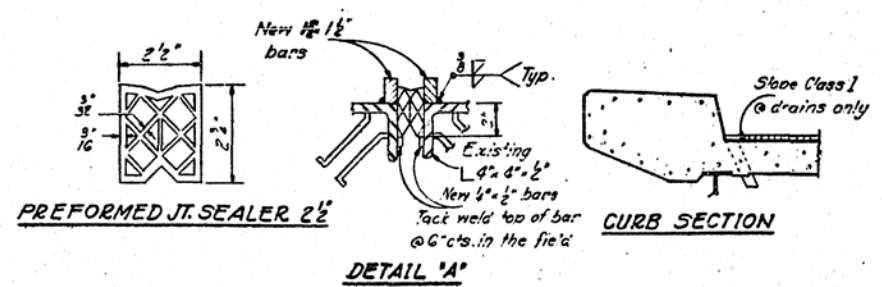


TYPICAL DECK CROSS SECTION

NOTE:
ON THE WESTBOUND BRIDGE OF SECTION 10-TO-B
EXTEND THE 1 1/4" CLASS I RESURFACING EAST 165'
AND ON BOTH BRIDGES OF SECTION 10-71B EXTEND
THE 1 1/4" CLASS I RESURFACING WEST 130' BEFORE
BEGINNING RUNDOWN

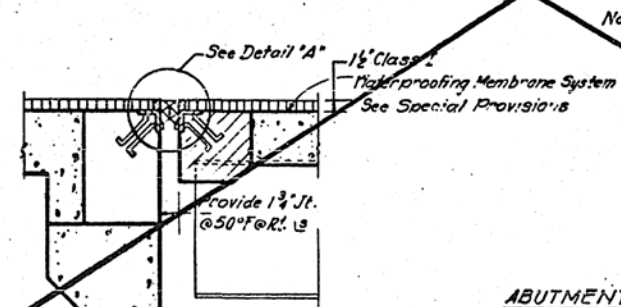
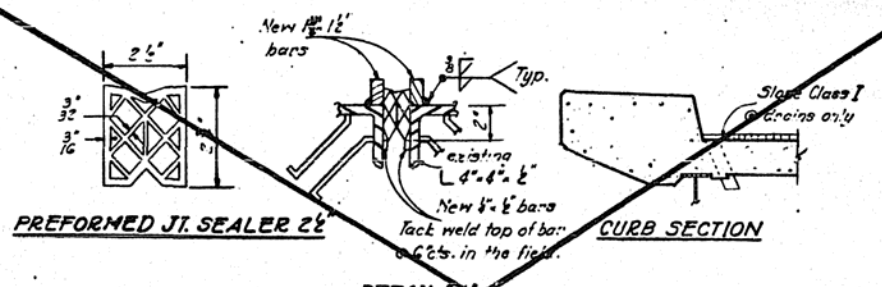
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
72	7	CHAMPAIGN	7	5	5
PLANNED	PLANNED	PLANNED	PLANNED	PLANNED	PLANNED



**ABUTMENT JOINT MODIFICATIONS
FOR DECK WATERPROOFING**
Existing opening is between 1 1/2" and 2" at 50°F and the expansion length and skew falls into the 2 1/2" R.J.S. range.

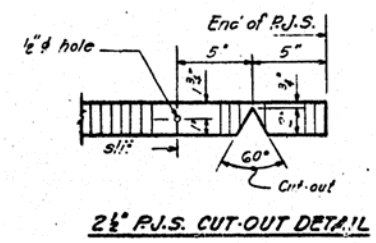
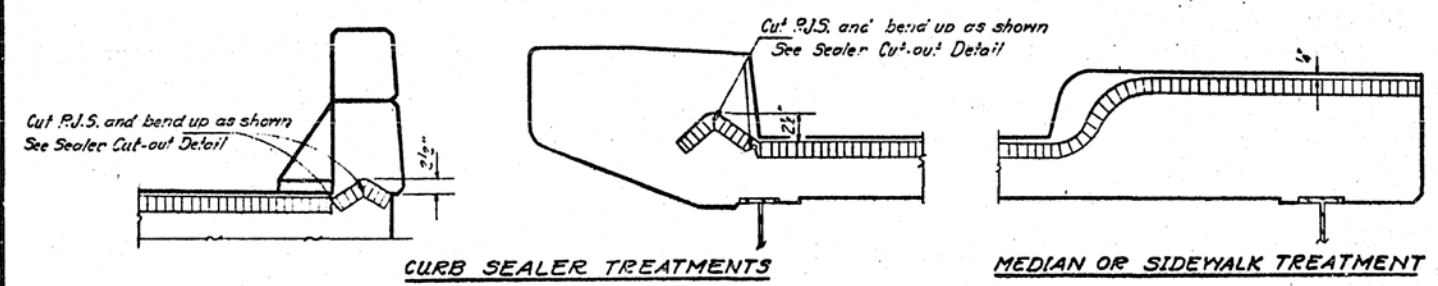
CASE I



**ABUTMENT JOINT MODIFICATIONS
FOR DECK WATERPROOFING**
Existing joint is less than 1 1/2" at 50°F and the expansion length and skew falls into the 2 1/2" R.J.S. range, but there is no adequate expansion capacity.

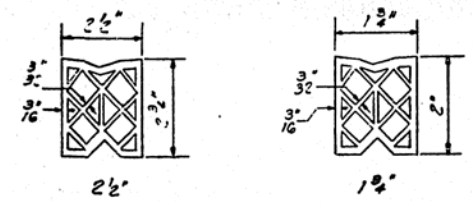
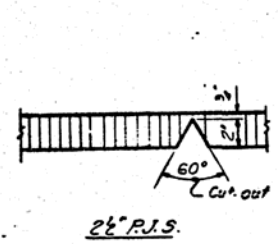
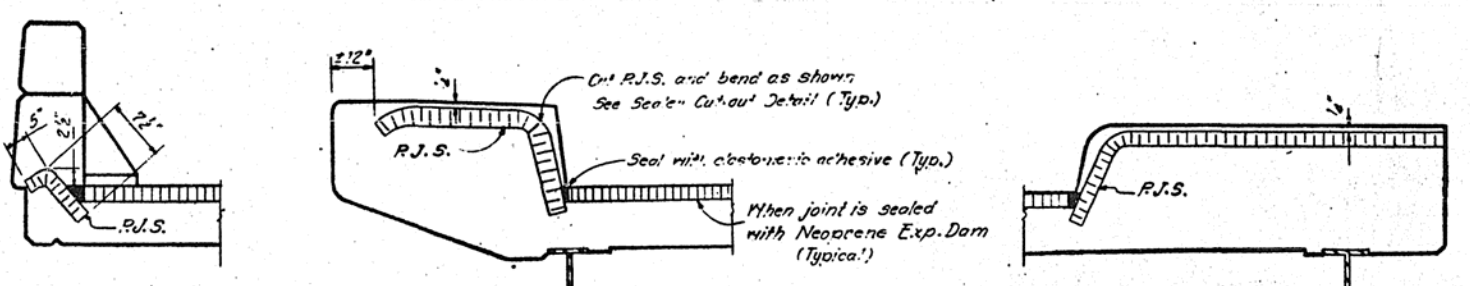
Notes:
Hatched area shall be removed and replaced to provide 1/2" right angle joint @ 50°F.
Existing reinforcement shall be cleared and incorporated into the new concrete. The existing 1/2" x 1/2" L studs shall be cleaned & reused. Removal shall be from outside of superstructure.

CASE II

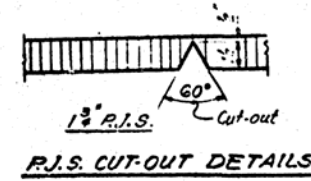


DESIGNED	19
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	APPROVED

CASE III



Use 2 1/2" R.J.S. for 1" min. opening @ 50°F and 1 1/2" R.J.S. for 3/4" min. opening @ 50°F



CASE IV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S.A. F.A.A. 72	*	CHAMPAIGN PIATT	7	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT.	

SHEET NO.

SHEETS

Diagram illustrating a double lap joint with dimensions and labels:

- Top dimensions: $3''$, $1\frac{5}{8}''$ molded position, $3''$
- Left side label: $\frac{1}{4}''$ from bottom of post to bottom of $\frac{1}{4}''$ steel angle
- Bottom dimensions: $\frac{1}{4}''$, $1''$, $2\frac{1}{2}''$, $\frac{5}{16}''$, $2\frac{1}{2}''$, $\frac{3}{16}''$
- Bottom label: steel angle

Existing Open Joint with adequate capacity
for required expansion.
Max. Exp. length = 220 Ft. Max. Opening = 3"

Hatched portion to be removed. Existing reinforcement shall be cleaned and incorporated into the new construction.

EXISTING LONGITUDINAL JT. CROSS SEC.

Existing reinforcement

New Class X Concrete

New #6 bars top & bottom at same spacing as existing slab reinforcement.

RECONSTRUCTED LONGITUDINAL JT. CROSS SEC.

RECONSTRUCTED LONGITUDINAL JT.

DESIGNED	<div style="text-align: right;">19</div> EXAMINED
CHECKED	<small>DIRECTOR OF ROADS AND TRAFFIC DEVELOPMENT</small> PASSED
DRAWN	<small>DIRECTOR OF ROADS</small> APPROVED
CHECKED	<small>DIRECTOR OF HIGHWAYS</small>

When E to E outside beams or girders is 65' 0" or less.

Left Diagram Details:

- Top Left: "#6 = 18' threaded rods automatically end welded."
- Top Center: "Convolution length 3 1/2"
- Top Right: "#6 = 18' threaded rods automatically end welded"
- Center: "Neoprene Expansion Dam See Special Provisions"
- Right Side: "Class I Surfacing"
- Bottom Left: "Grout", "4' x 1' x 1/2' L", "Exist. 4' x 6' L"
- Bottom Center: "Trim free portion of P and weld to L", "1 1/2' @ 50°F"
- Bottom Right: "Varies per Temp."

Right Diagram Details:

- Top Left: "#6 = 18' threaded rods automatically end welded"
- Top Center: "Convolution length 3 1/2"
- Top Right: "#6 = 18' threaded rods automatically end welded"
- Center: "Neoprene Exp. Dam See Special Provisions New Class II Surf."
- Right Side: "Class II Surfacing"
- Bottom Left: "Grout", "4' x 1' x 1/2' L", "Exist. 4' x 6' L"
- Bottom Center: "Trim free portion of P and weld to L", "1 1/2' @ 50°F"
- Bottom Right: "Varies per Temp."

Notes:

- "Incidental to Neoprene Expansion Dam"

PROPOSED SECTION - TYPE 2

NEOPRENE EXP. DAM

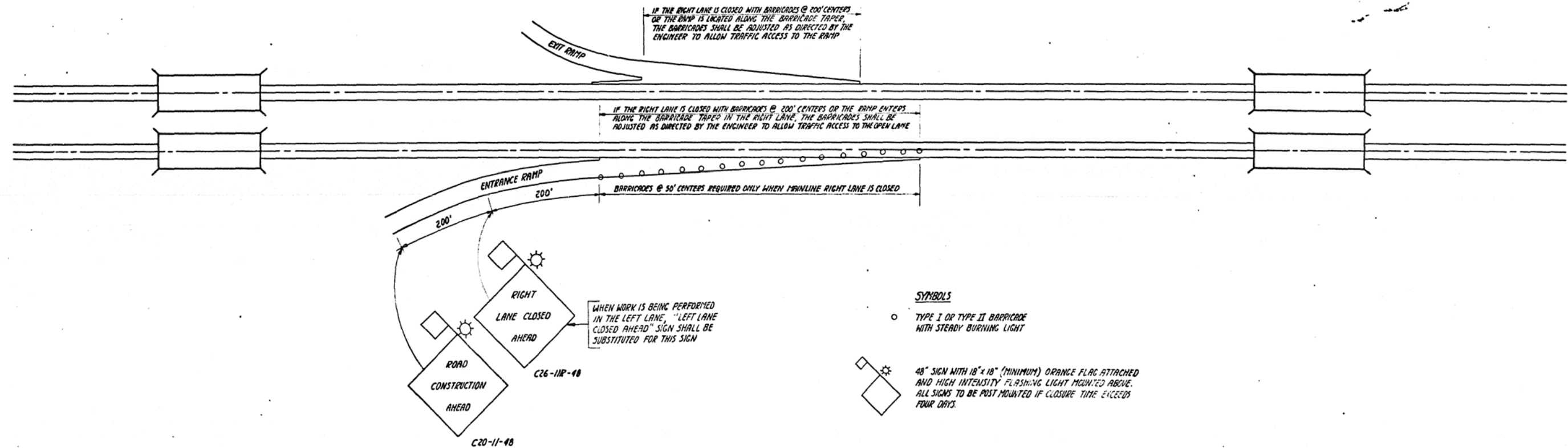
Existing Sliding Plate
Maximum Expansion Length = 220 Feet
Maximum Opening = 3"

CASE VII

TYPICAL TRAFFIC CONTROL FOR RAMP ENTERING OR EXITING THROUGH STD. 2316

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 72	8	CHRISTIAN & PUTT	7	7

4" DIST. 5" BRIDGE DECK WATERPROOFING 1911-2

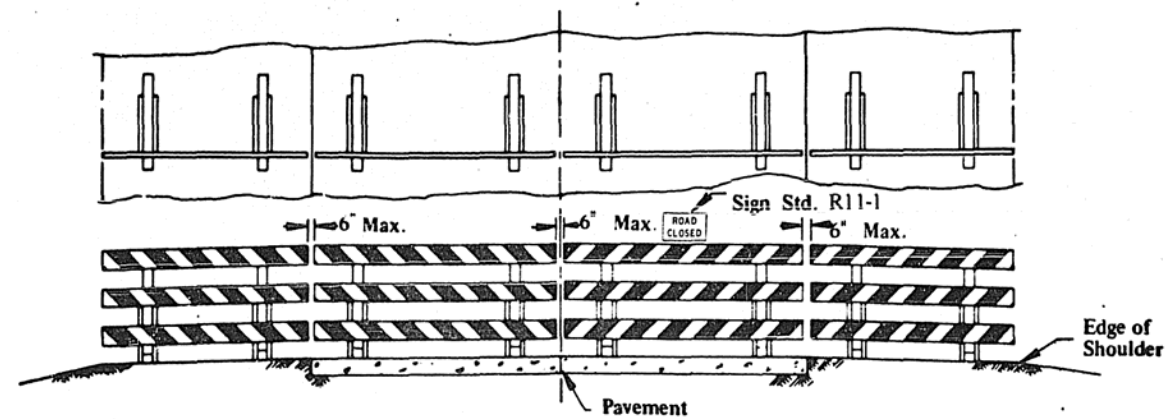


NOTES: THIS TRAFFIC CONTROL STANDARD, SPECIAL, SHALL BE USED WHEN A RAMP ENTERS OR EXITS BETWEEN RIGHT (OR LEFT) LANE CLOSED 1/2 MILE AHEAD SIGN AND THE WORK AREA OF STANDARD 2316. THE ADDITIONS SHOWN WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION STANDARD 2316.

STANDARD DESIGN

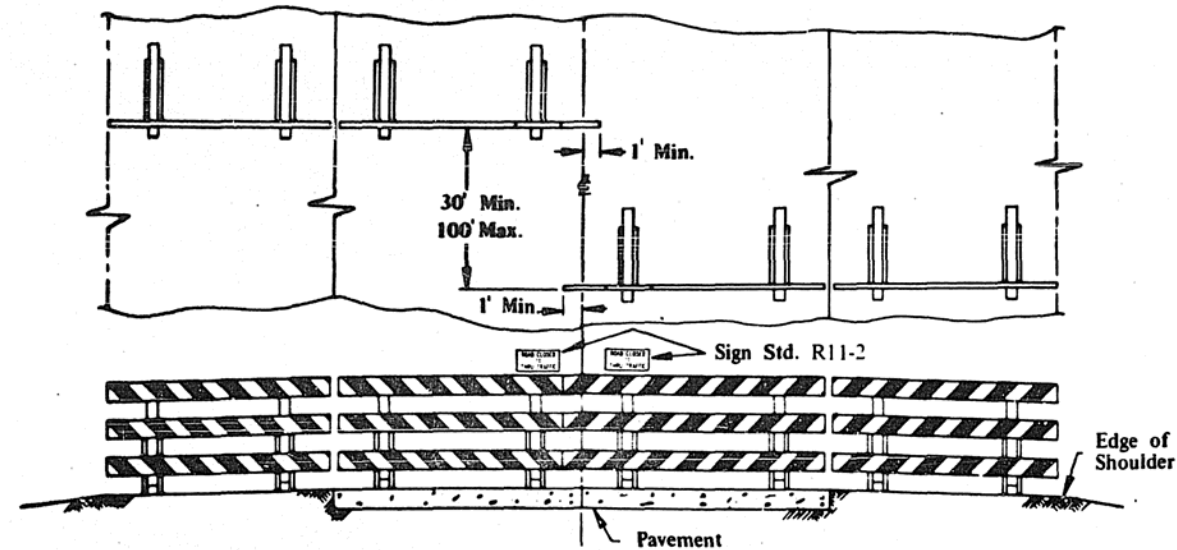
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD



ROAD CLOSED TO ALL TRAFFIC

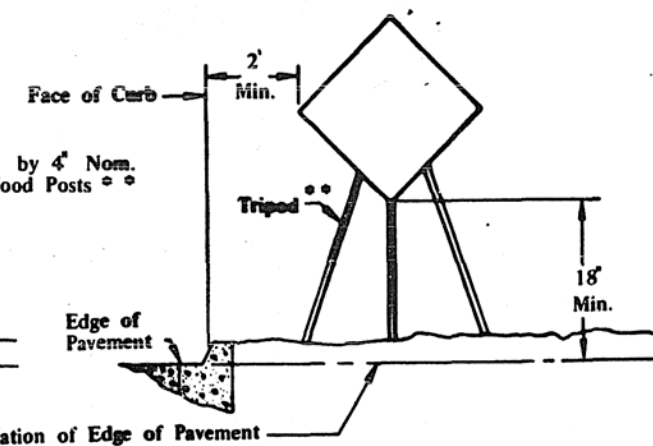
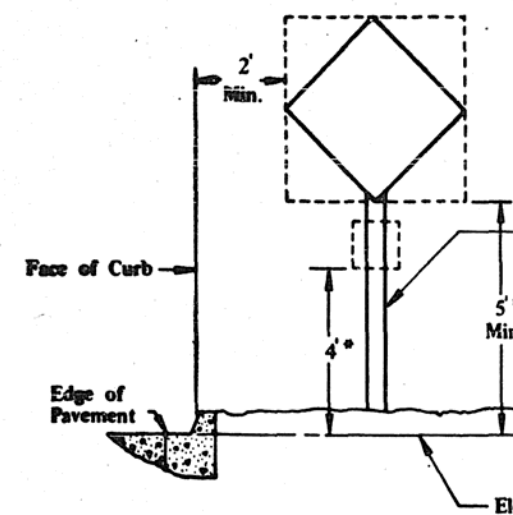
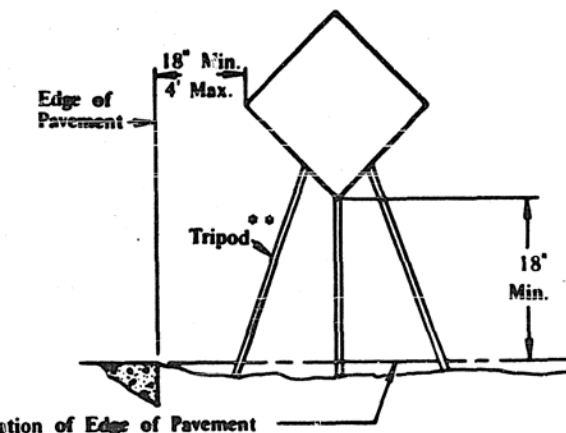
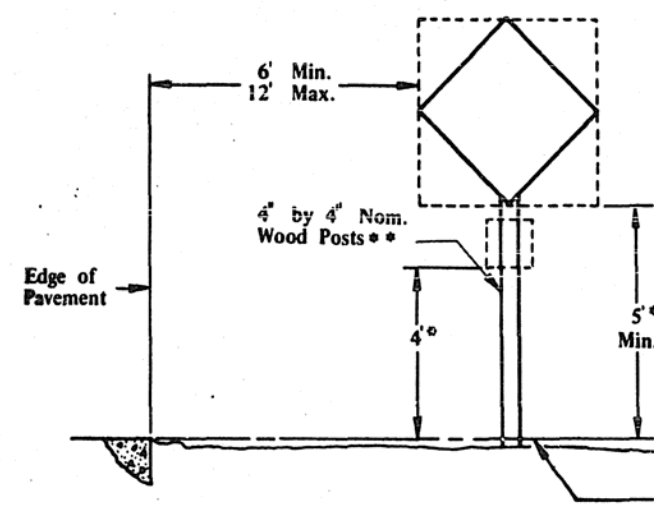
The barricades shall be to the edge of the shoulders except when otherwise directed by the Engineer or shown on the detailed construction plans.



ROAD CLOSED TO THRU TRAFFIC

ReflectORIZED striping shall appear on both sides of barricades. The barricades shall be to the edge of the shoulders, except when otherwise directed by the Engineer or shown on the detailed construction plans.

TYPICAL SIGN INSTALLATIONS



*Add 2 ft. if parking exists within 200 ft. in advance of the sign location at any time during the project.

**Alternate designs and/or materials may be permitted when authorized by the Engineer. All materials shall be substantial and durable.

Signs on temporary supports shall be within 20° of a vertical position.

Weights of concrete, stone, or brick will not be allowed and all weights used to stabilize signs other than sandbags must be rigidly attached to the sign support as close to the ground as possible.

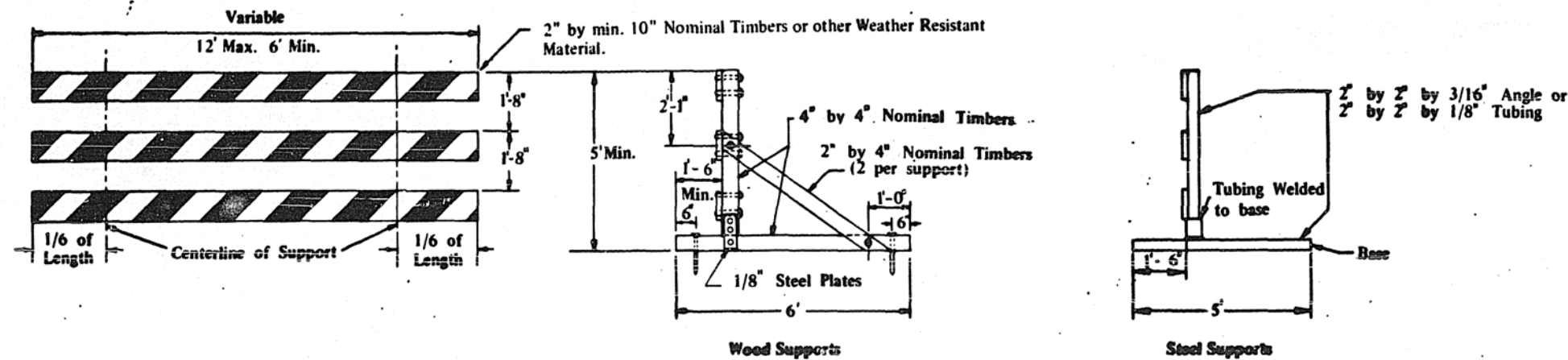
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ISSUED 4-3-69
APPROVED <i>E. E. McRae</i> 1973		REVIS BY DATE
Engineer of Traffic		

STANDARD 2298-4

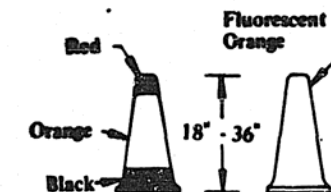
STANDARD DESIGN

DESIGN OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE

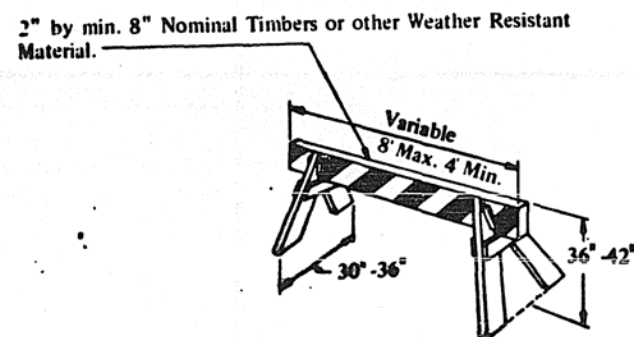
TYPE III BARRICADES



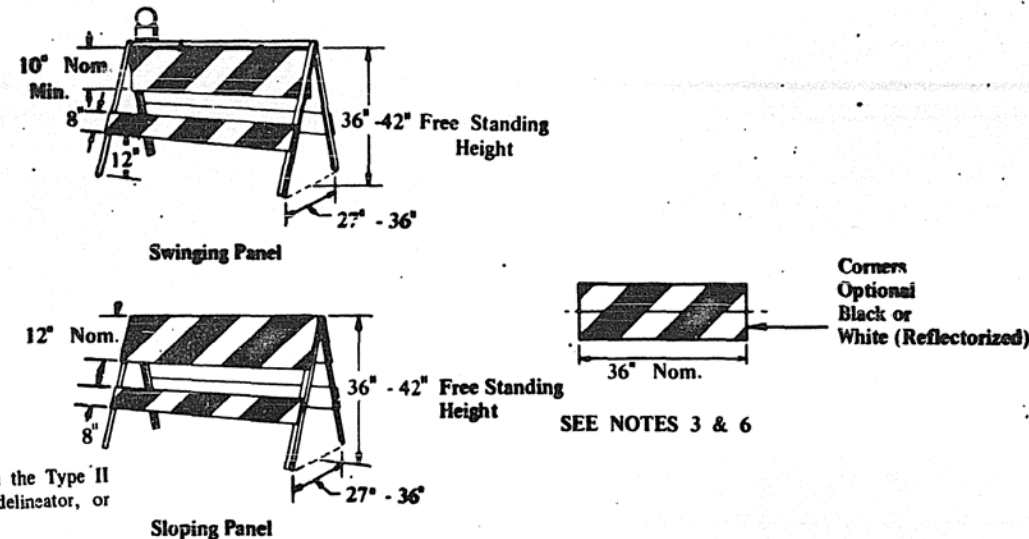
CONES



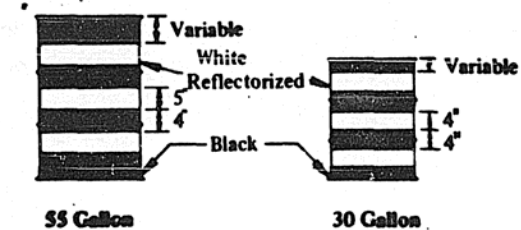
TYPE I BARRICADE



TYPE II BARRICADES



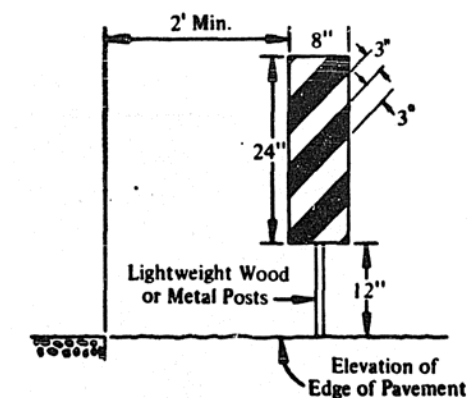
STEEL DRUMS



Striping of the bottom panel may be omitted when the Type II barricade is used primarily as a flasher support, delineator, or channelization device.

GENERAL NOTES

- Barricade legs or supports shall be constructed of either timber or steel and shall be galvanized or painted white or black.
- All reflectORIZED material shall have a smooth sealed surface covering the reflective elements.
- Barricade swinging panels may be divided in two pieces either horizontally or vertically but the combined surface area must be not less than 10 times the required width.
- All barricades and vertical panels shall have alternating white reflectORIZED and black stripes at 45° from the vertical. Barricade stripes shall be 6 in. in width. Stripes on vertical panels shall be 3 in. in width.
- Diagonal stripes shall slope downward at 45° toward the side on which traffic will pass.
- Stripe placement on barricades shall be symmetrical and provide maximum reflective material along the end of the panel.
- Stripe placement is shown for 12-inch barricade panels. If a swinging panel of less than 12 inches is used, the stripe placement along the horizontal centerline of the panel shall be the same as shown for 12-inch panels.
- Type I and Type II Barricades shall be striped on both sides.
- Barricades may be identified with a legend that does not exceed one inch in height at a location not visible to traffic.
- Weights of concrete, stone, or brick will not be allowed and all weights used to stabilize barricades other than sandbags must be rigidly attached to the barricades, as close to the ground as possible.
- Alternate designs and/or materials may be permitted when authorized in writing by the Engineer. All materials shall be substantial and durable.
- Vertical panels placed on the outside of curves shall be reflectORIZED on both sides.

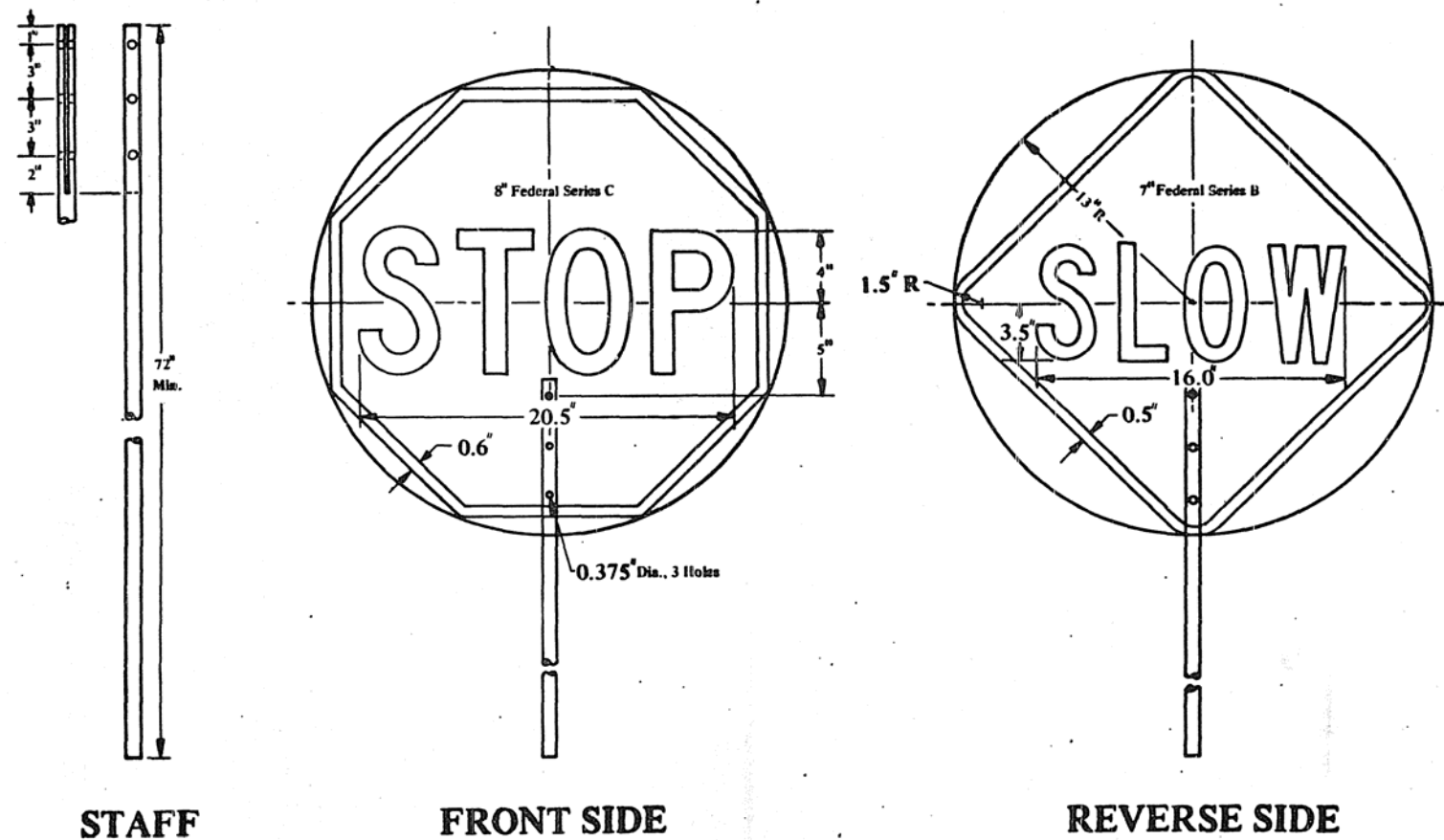


VERTICAL PANEL

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ISSUED 4-3-69
APPROVED 6-12-1973 S.E. McFarley Engineer of Traffic	REVISOR BY DATE

STANDARD 2299-5

STANDARD DESIGN FOR FLAGMAN TRAFFIC CONTROL SIGN



GENERAL NOTES

1. The "STOP" face shall consist of white letters and border on a red reflectorized background.
2. The "SLOW" face shall consist of black letters and border on a orange reflectorized background.
3. Areas outside sign borders shall be light blue.
4. The portion of the staff within the sign face shall match the sign colors.
5. All colors and letters shall meet applicable federal standards.
6. The sign shall be attached to the staff with rust resistant hardware.
7. The staff shall consist of two sections joined by a coupling located 60 in. from the bottom of the staff. Alternate designs may be used when approved by the Engineer. All materials shall be substantial and durable.
8. This sign shall be furnished by the contractor and shall be used by the flagman in lieu of flags or other signaling devices. The cost of furnishing and maintaining the sign shall be considered incidental to the contract and no additional compensation will be allowed.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

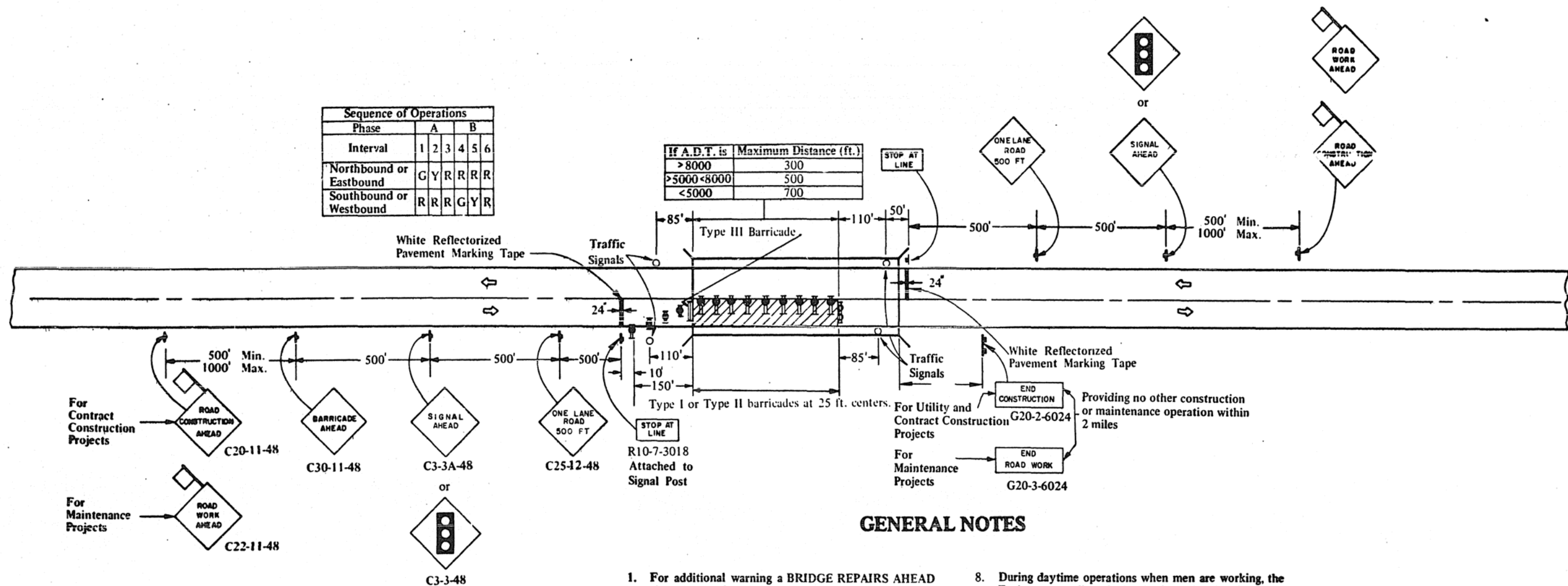
APPROVED 6-12 1973
L. E. Moberly
Engineer of Traffic

ISSUED 4-3-69
REVISED
BY DATE

STANDARD 2300-1

STANDARD DESIGN

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE



TYPICAL APPLICATION

Bridge Deck Repair

SYMBOLS

- Work Area.
- Sign with 18 in. by 18 in. (minimum) orange flag attached.
- Sign on portable or permanent support.
- Type I or Type II Barricade with flashing lights.
- Type I or Type II Barricade with steady burning light.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ISSUED 4-3-69 REVISED BY DATE
APPROVED <i>A. E. Moberly</i> 1973 Engineer of Traffic	

CASE IX

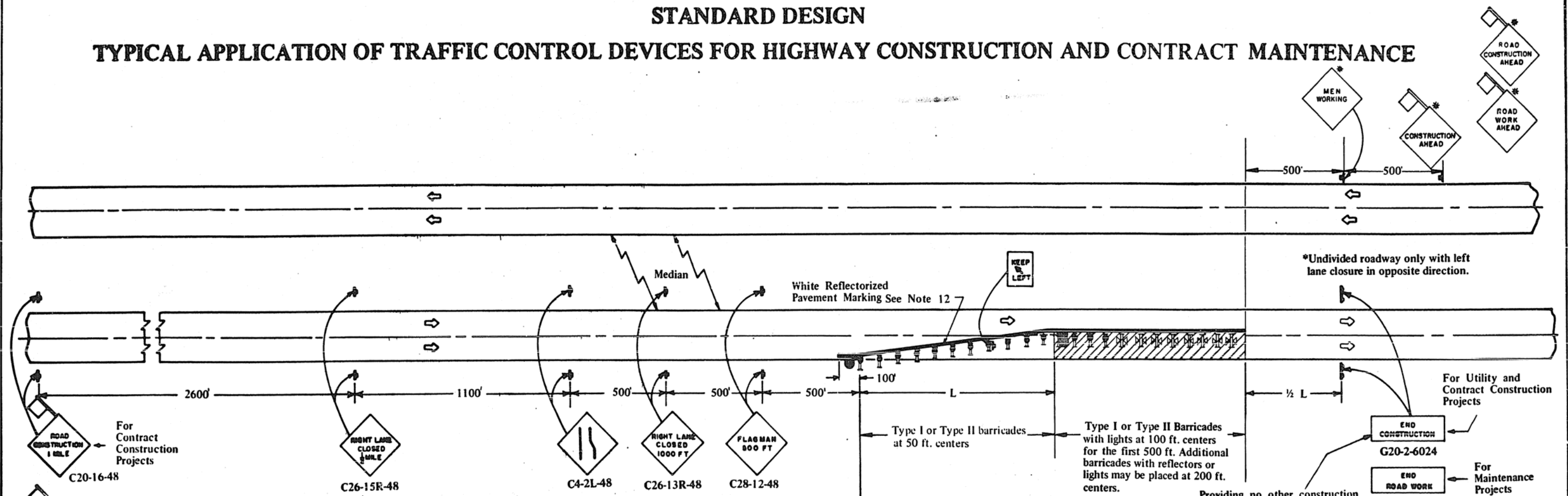
**TWO-LANE, TWO WAY TRAFFIC,
RURAL ONE LANE CLOSURE ON
A BRIDGE DECK DAY OR NIGHT
OPERATIONS**

Where, at any time, any vehicle, equipment, men or their activities will encroach on one lane of a bridge deck and traffic signals are required.

STANDARD 2309-3

STANDARD DESIGN

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND CONTRACT MAINTENANCE



GENERAL NOTES

- The "L" distance equals the lane width times the taper ratio.

Normal Posted Speed m.p.h.	Taper Ratio ft./ft.
70	100/1
65	90/1
60	80/1
55	70/1
50	60/1
45 or less	50/1
- When there is no work being performed, the FLAGMAN 500 FT sign(s), flagmen, and any MEN WORKING sign(s) will not be required. A RIGHT LANE CLOSED 500 FT sign(s) shall be installed in place of the FLAGMAN 500 FT sign(s).
- This case also applies when work is being performed in the left lane. Under these conditions, LEFT LANE CLOSED signs shall be substituted for RIGHT LANE CLOSED signs. On undivided highways, signs shall be added in the opposite direction as shown (high intensity flashing lights will not be required on these signs) and cones shall be placed along the center line throughout the taper and work area.
- Signs mounted in the median may be omitted when the median is less than 10 feet wide.
- This case does not apply when work is being performed in the middle lane(s) of a six or more lane highway. Special plans approved by the Engineer will be required.
- Cones may be substituted for barricades during day operations. On fully access-controlled facilities, cones shall be a minimum of 28 in. in height.
- Utility companies may work on utility crossings on fully access-controlled freeways under emergency conditions only.
- Steady burning lights will not be required on Type I or Type II Barricades for day operations.
- The Engineer may require drums, either 55 gallon or 30 gallon, to be used to supplement the barricades if the closure time exceeds four days.
- All signs shall be post mounted if the closure time exceeds four days.
- High intensity flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series.
- Reflectorized temporary pavement marking tape shall be placed throughout the taper and for 300 feet alongside the work area where the closure time is greater than four days.
- When a side road intersects the highway on which work is being performed, additional traffic control devices shall be erected and flagmen provided as directed by the Engineer.
- Longitudinal dimensions may be adjusted slightly to fit field conditions. The lateral placement of the flagmen may be varied from that shown. The flagman shown at the beginning of the work area shall be stationed approximately 100 feet in advance of the work party.
- All warning signs shall have minimum dimensions of 48 in. by 48 in. and have black legend and border on an orange reflectorized background. All signs other than warning signs shall have as a minimum the dimensions shown and shall have a black legend and border on a white reflectorized background.
- All vehicles, equipment, men and their activities are restricted at all times to one side of the pavement unless otherwise authorized by the Engineer.
- All barricade lights and reflectors shall be monodirectional.
- Form BT 725 is required.

SYMBOLS

- Work Area.
- Sign with 18 in. by 18 in. (minimum) orange flag attached.
- Sign on portable or permanent support.
- Flagman with Traffic Control sign.
- Type I or Type II Barricade with steady burning light.
- Type I or Type II Barricade with reflector or steady burning light.

CASE XVI

MULTILANE, DIVIDED AND UNDIVIDED, RURAL OPERATIONS EXCEEDING ONE DAYLIGHT OPERATION

Where, at any time, any vehicle, equipment, men or their activities will encroach on any portion of the lane immediately adjacent to the shoulder or on the shoulder within 2 feet of the edge of pavement.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ISSUED 4-3-69 REVISED BY DATE
APPROVED 6-12-1973 <i>E. E. Moberly</i> Engineer of Traffic	

STANDARD 2316-3