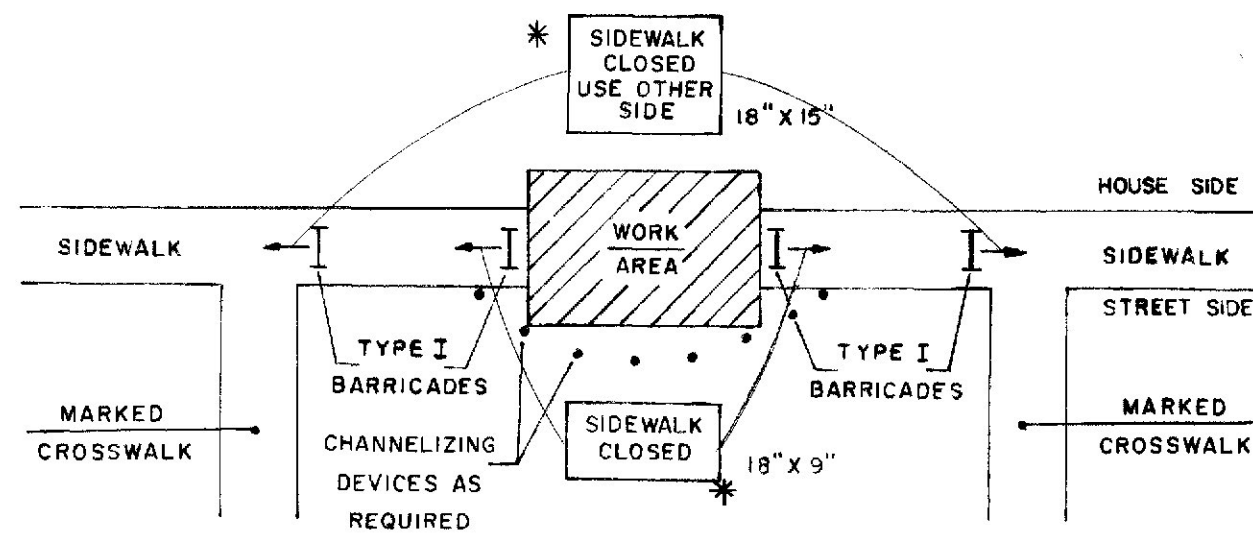
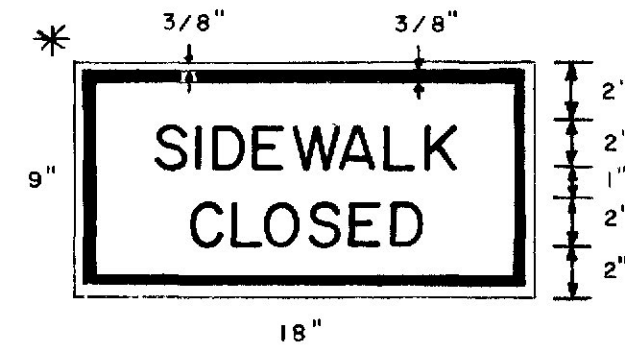
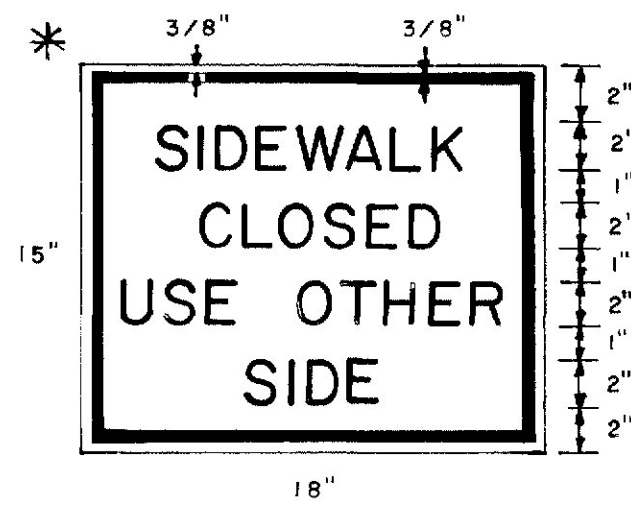


* NON-REFLECTORIZED WHITE BACKGROUND, BLACK TEXT
AND BORDER-2" SERIES C UPPER CASE LETTERS

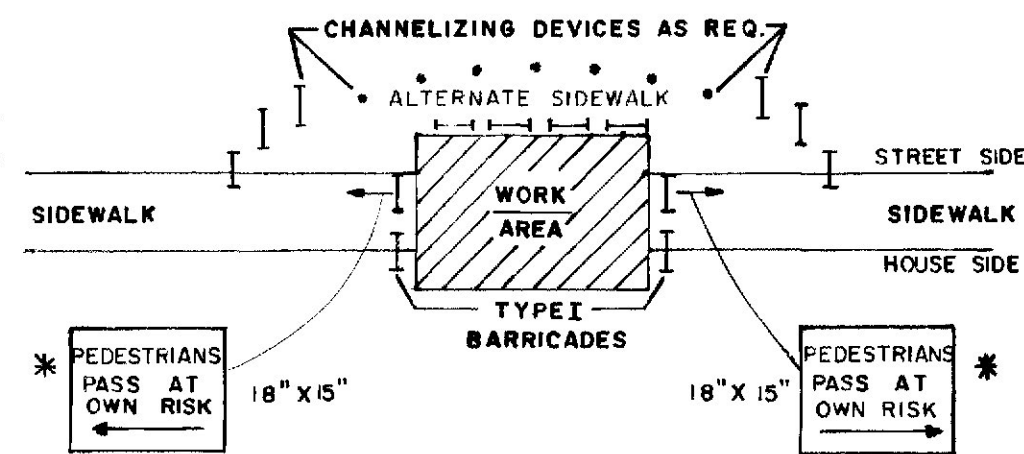


SIDEWALK CLOSURE
WITHOUT ALTERNATE SIDEWALK

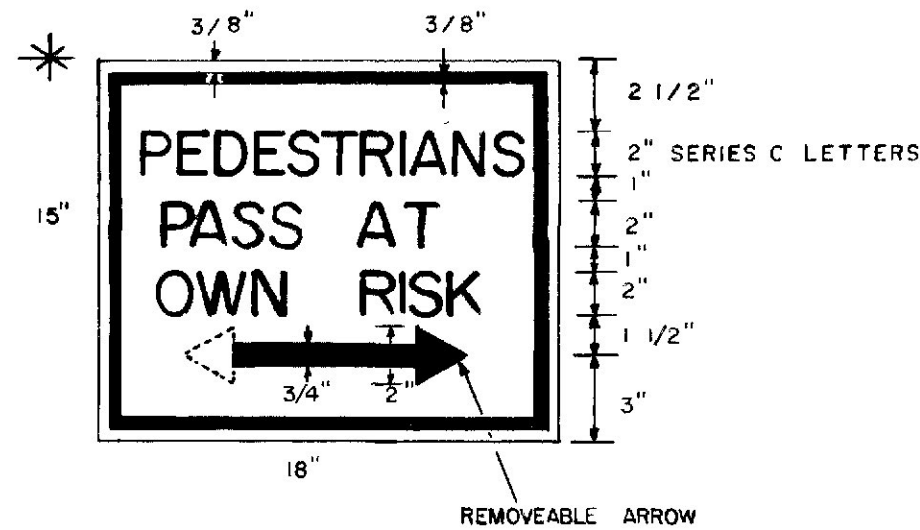


A

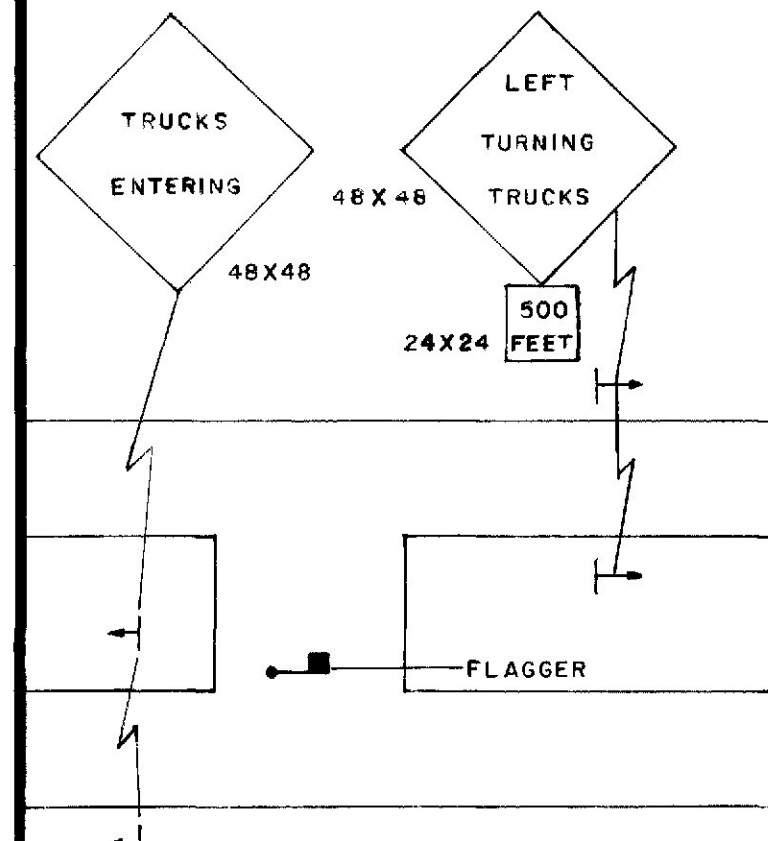
* NON-REFLECTORIZED WHITE BACKGROUND, BLACK TEXT AND BORDER-2" SERIES C UPPER CASE LETTERS



SIDEWALK CLOSURE
WITH ALTERNATE SIDEWALK

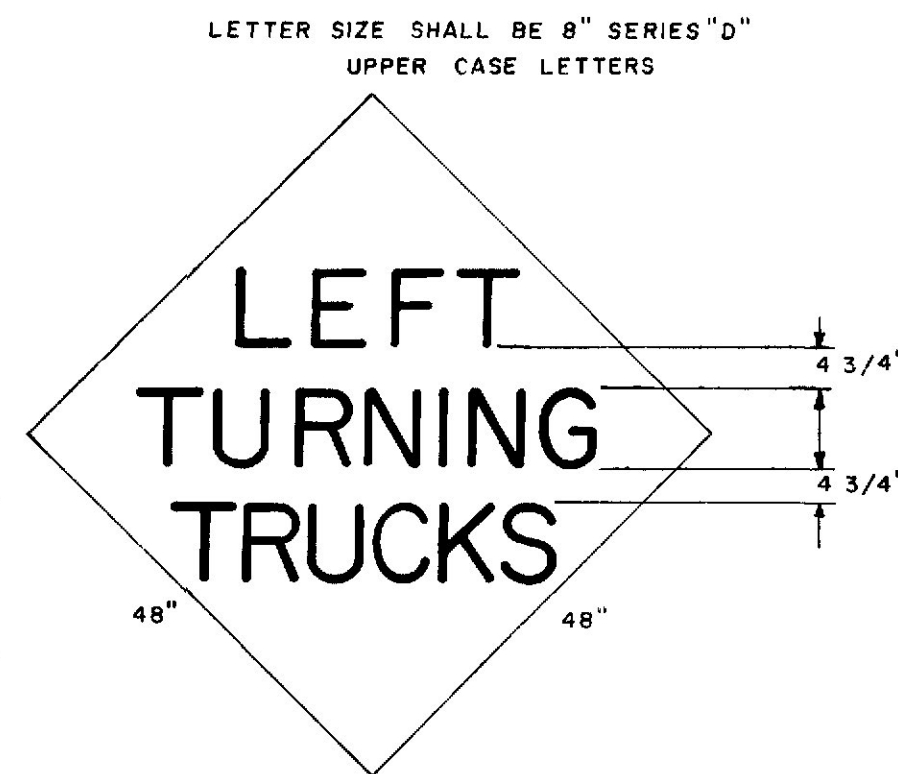


B

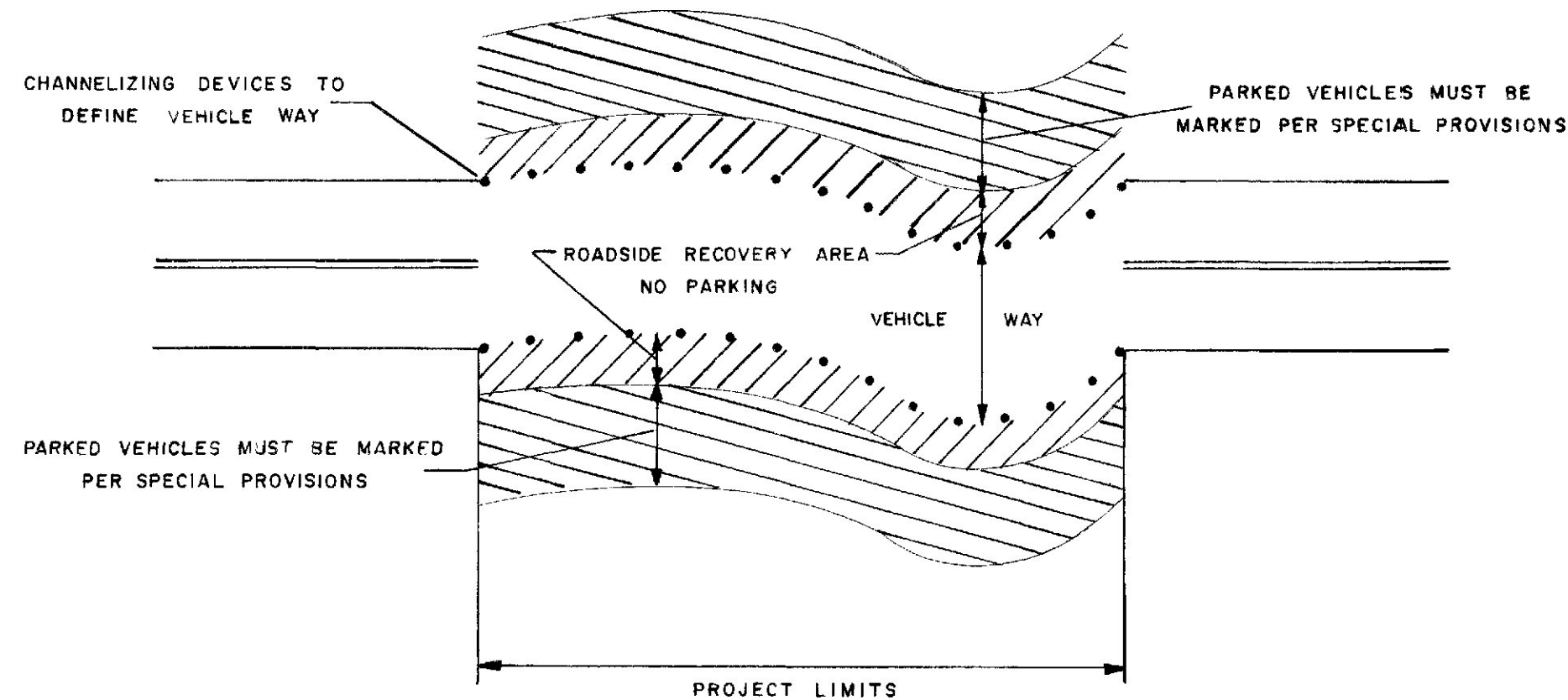


MEDIAN CROSSOVER

E



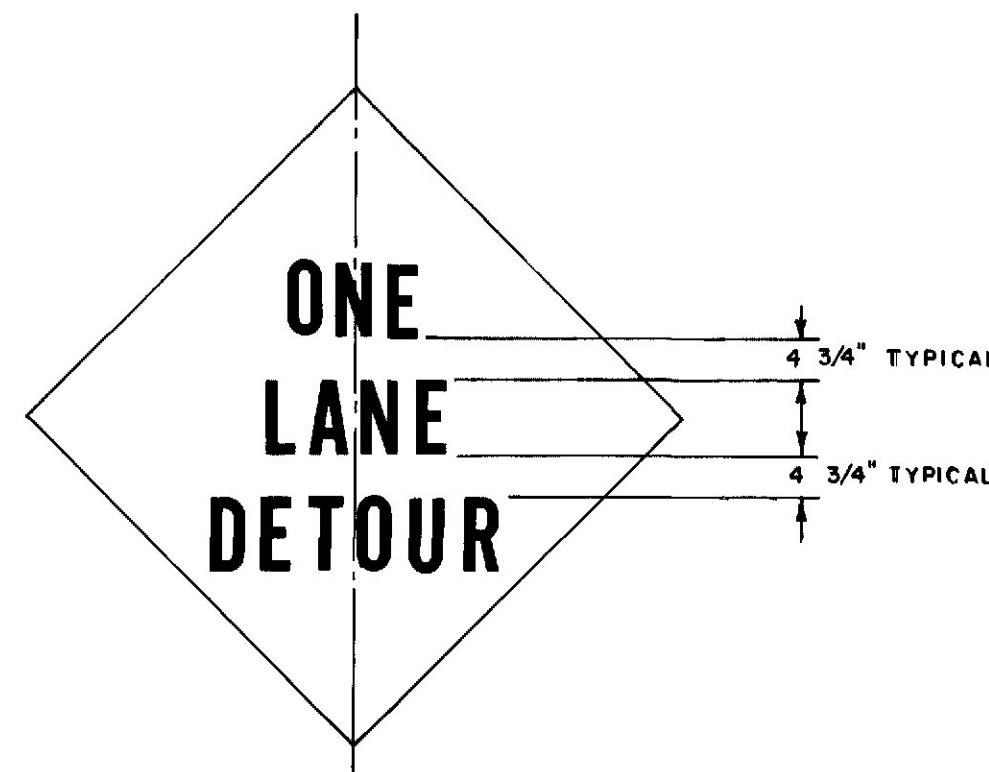
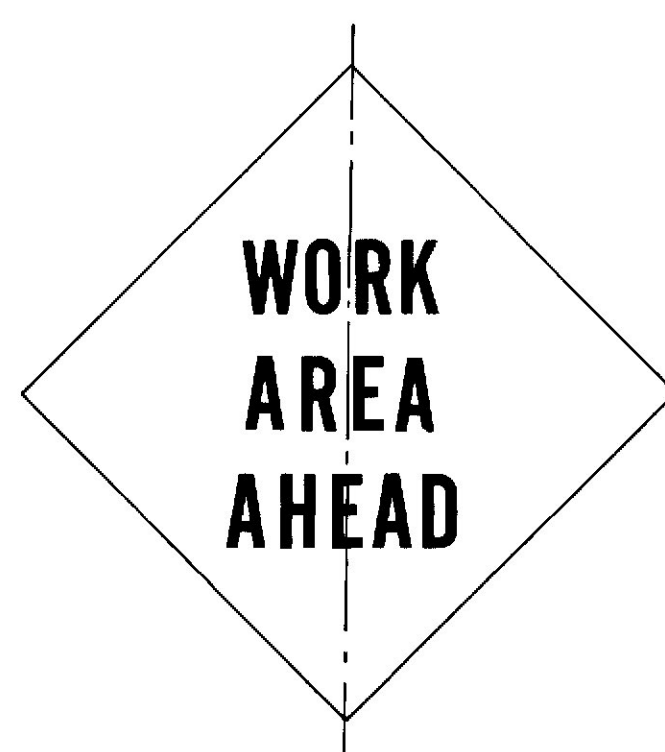
ALL DIMENSIONS AND OTHER REQUIREMENTS AS
SPECIFIED IN THE SPECIAL PROVISIONS



ROADSIDE RECOVERY AREA

C

CONSTRUCTION WARNING SIGN DETAIL



1. Letter size shall be 8" Series 'D'.
2. Border dimensions and legend design shall conform to "Standard Highway Signs".

D

REVISIONS

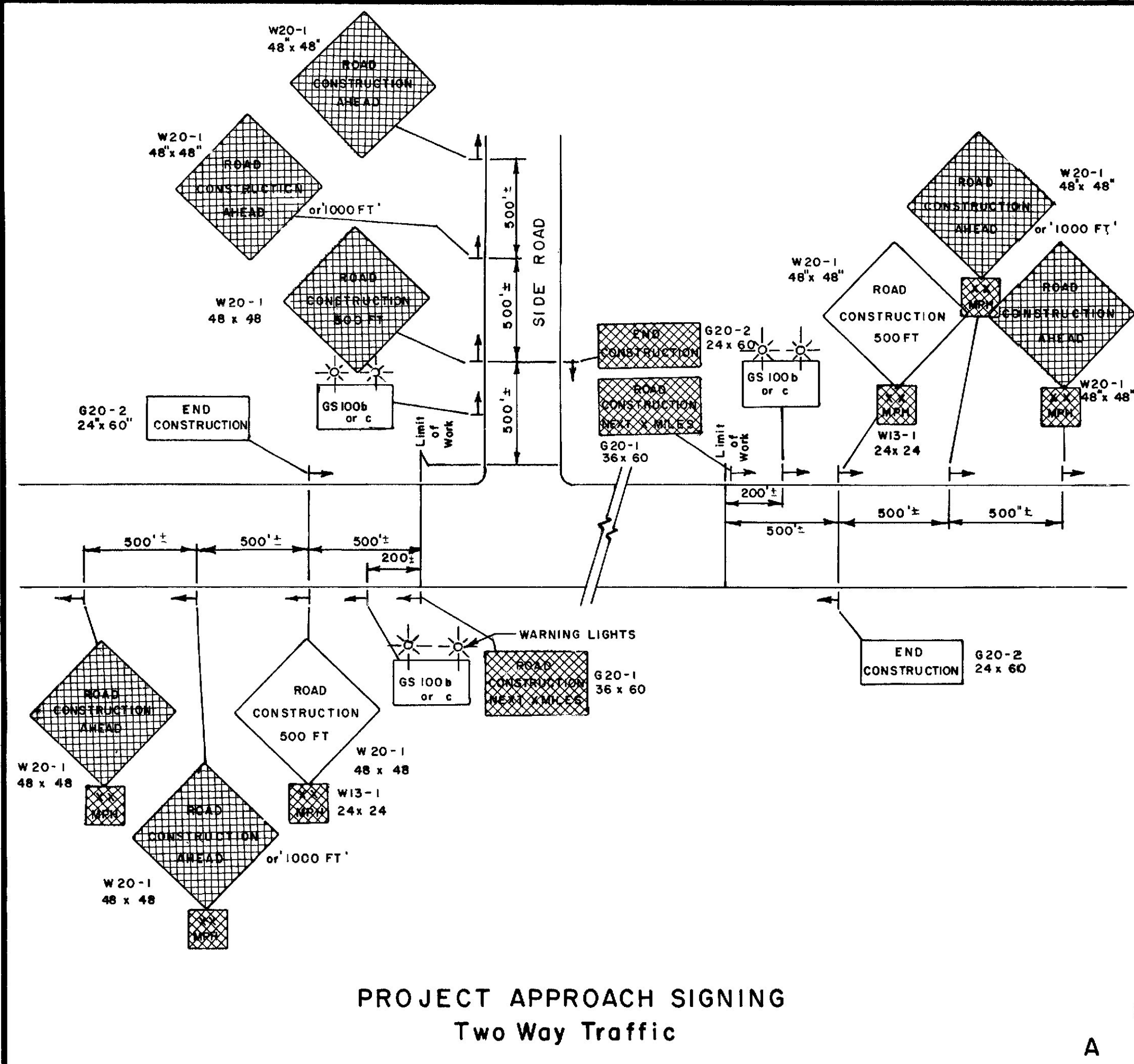
DATE	BY	REVISIONS
3-4-80	GENERAL NOTES	
4/3/80 PF	A,B,C,G,N	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

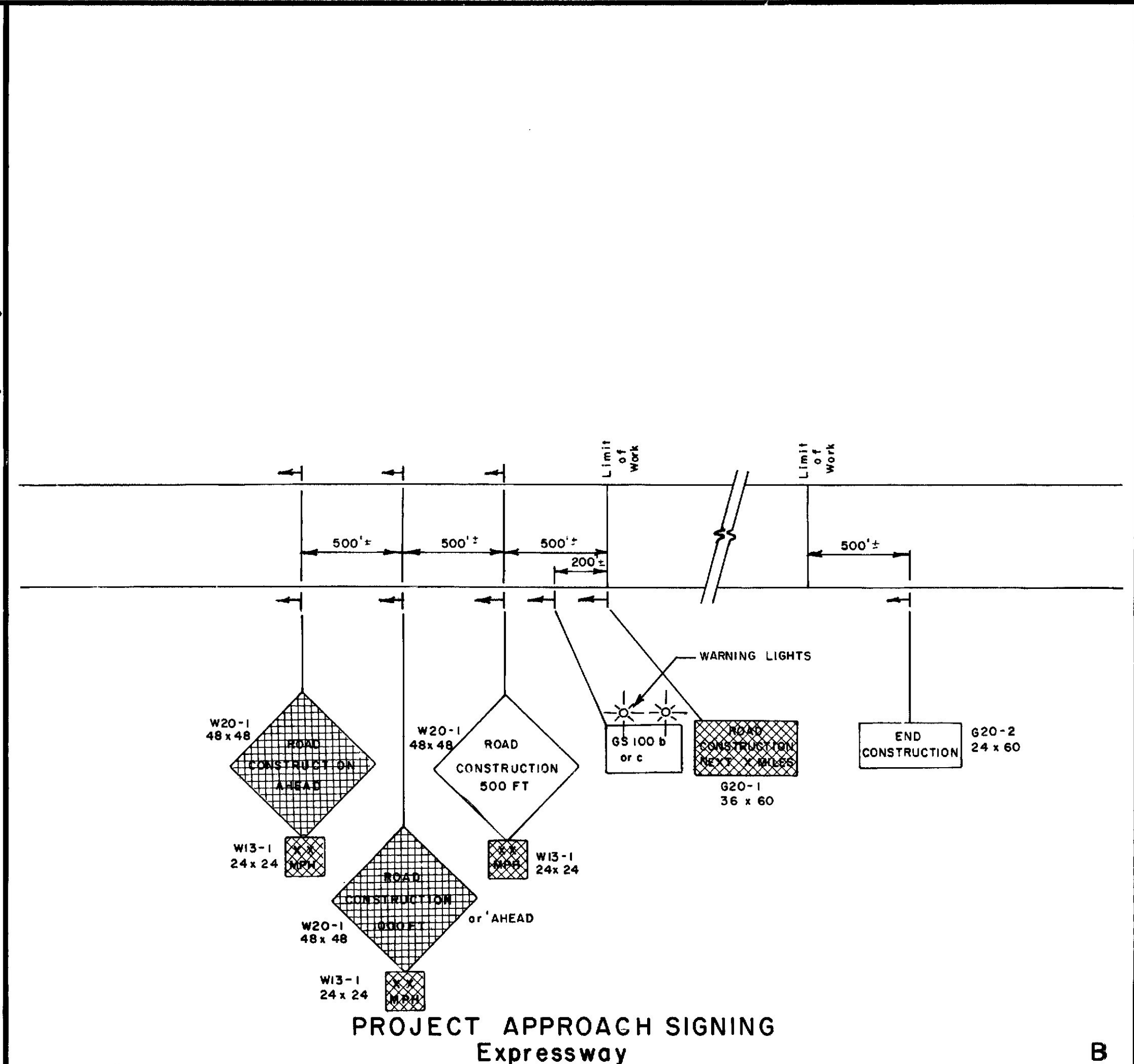
MAINTENANCE
OF
TRAFFIC
IN CONSTRUCTION ZONES

SHEET 1 OF 3 AUGUSTA, MAINE

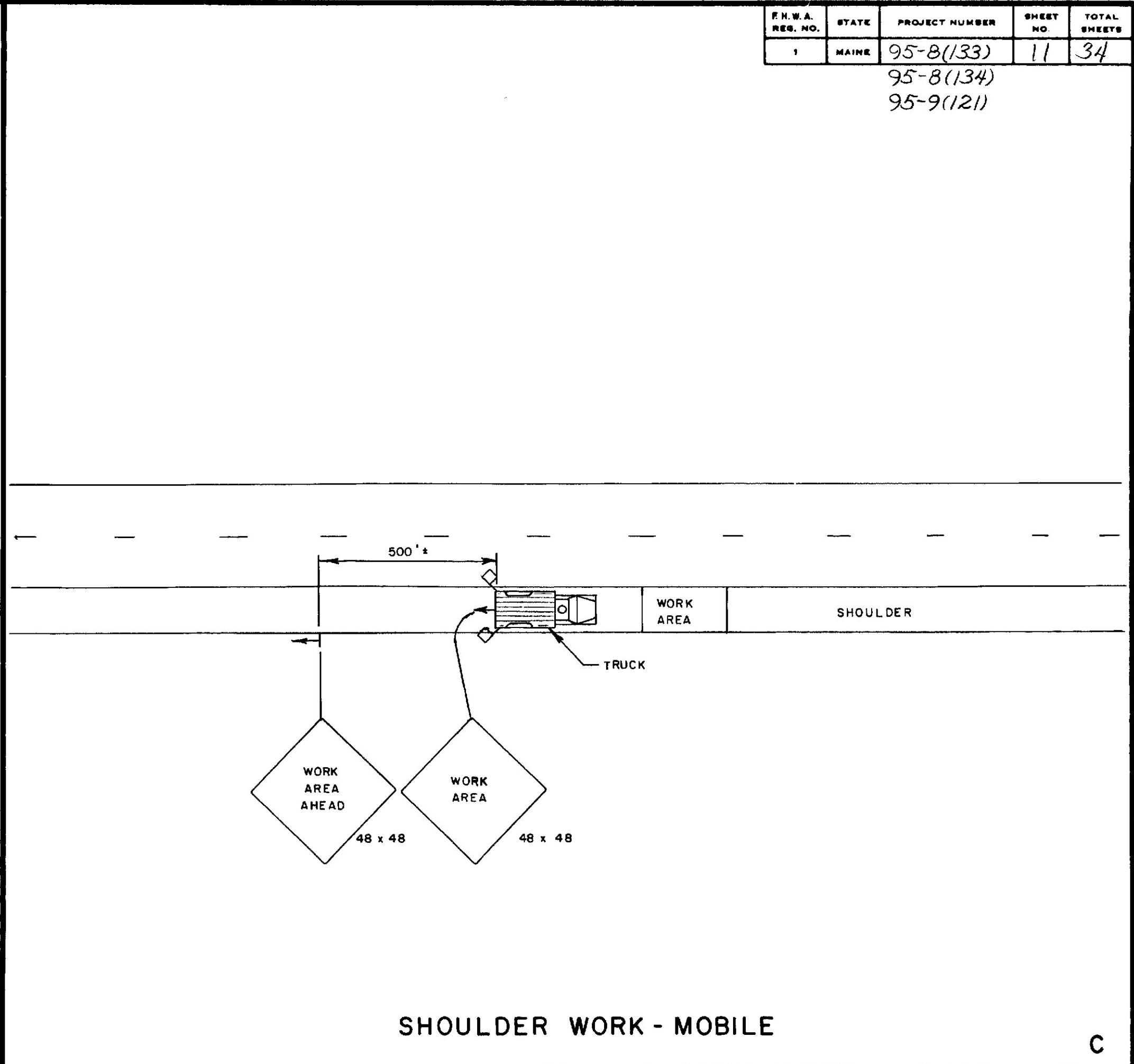
HOWLAND-T2R8-T2R9-MEDWAY 95-8(133)/95-8(134)/95-9(121)



A

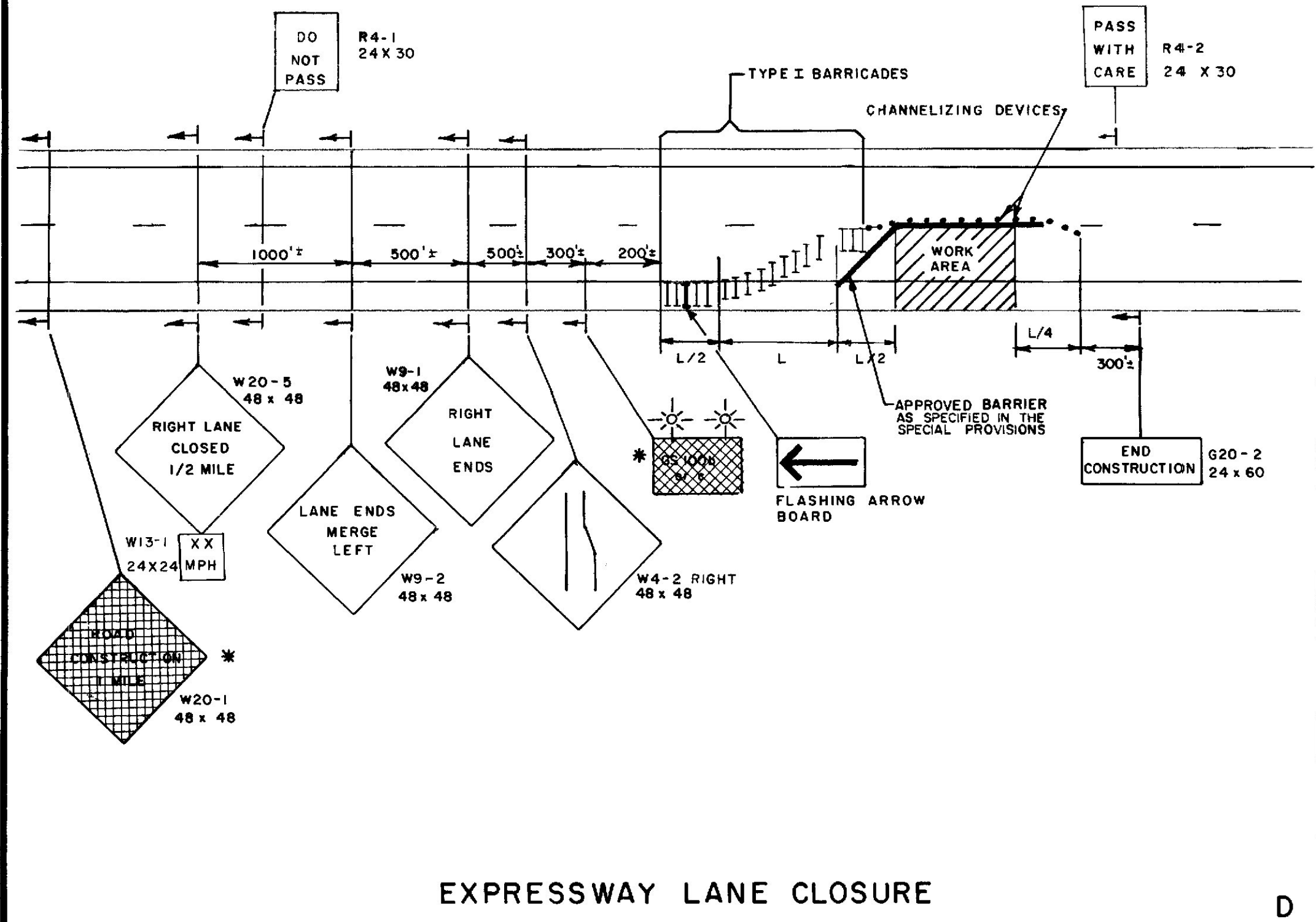


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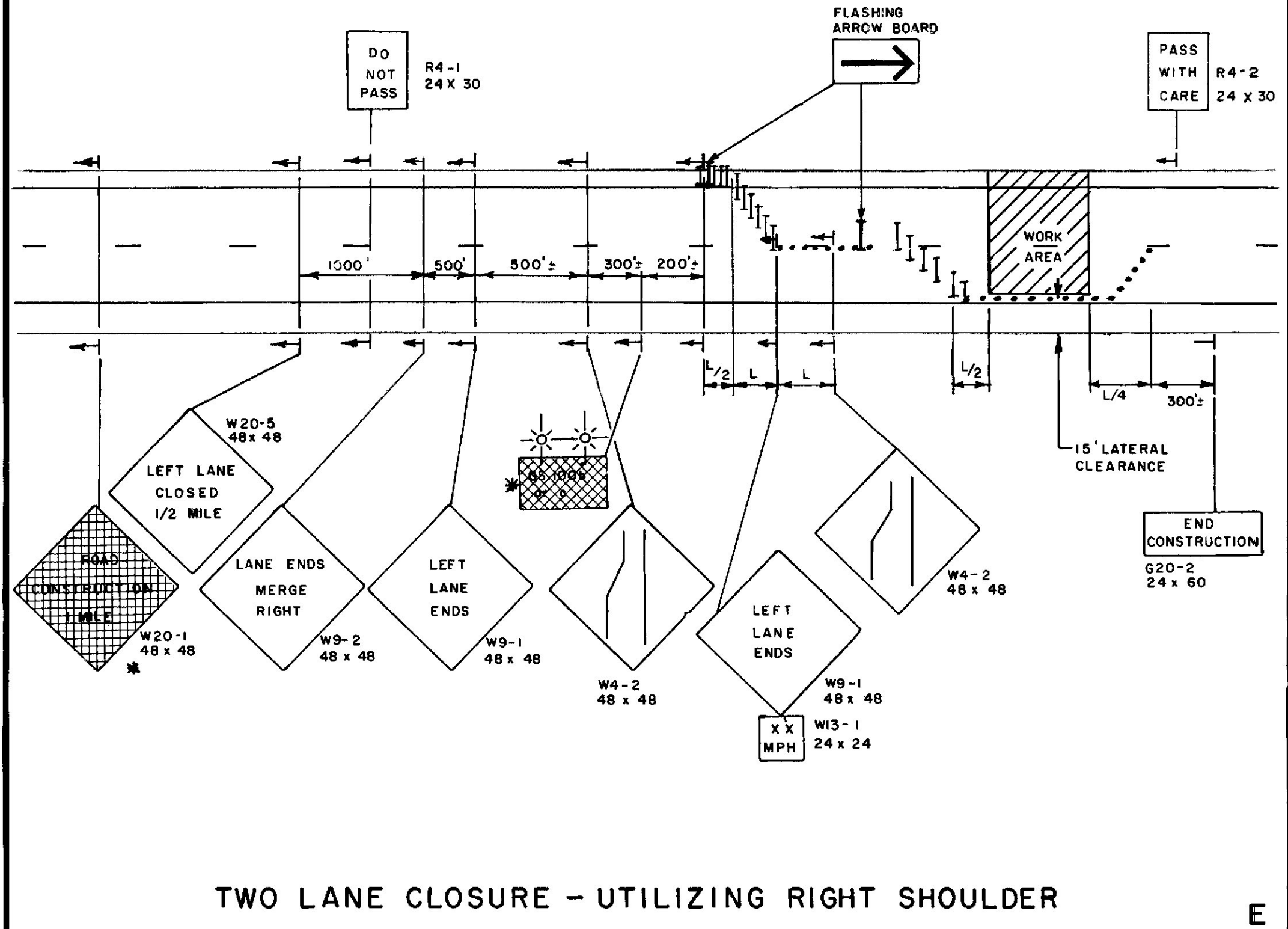
C

NOTE
* OMIT W20-1 AND GS-100B OR C IF LANE CLOSURE SIGNING ARRAY IS WITHIN PROJECT LIMITS.
ALTER PAVEMENT MARKINGS AS REQUIRED. MAINTAIN 15 FT LATERAL CLEARANCE.
USE SIMILAR SIGNING FOR LEFT LANE CLOSURE.

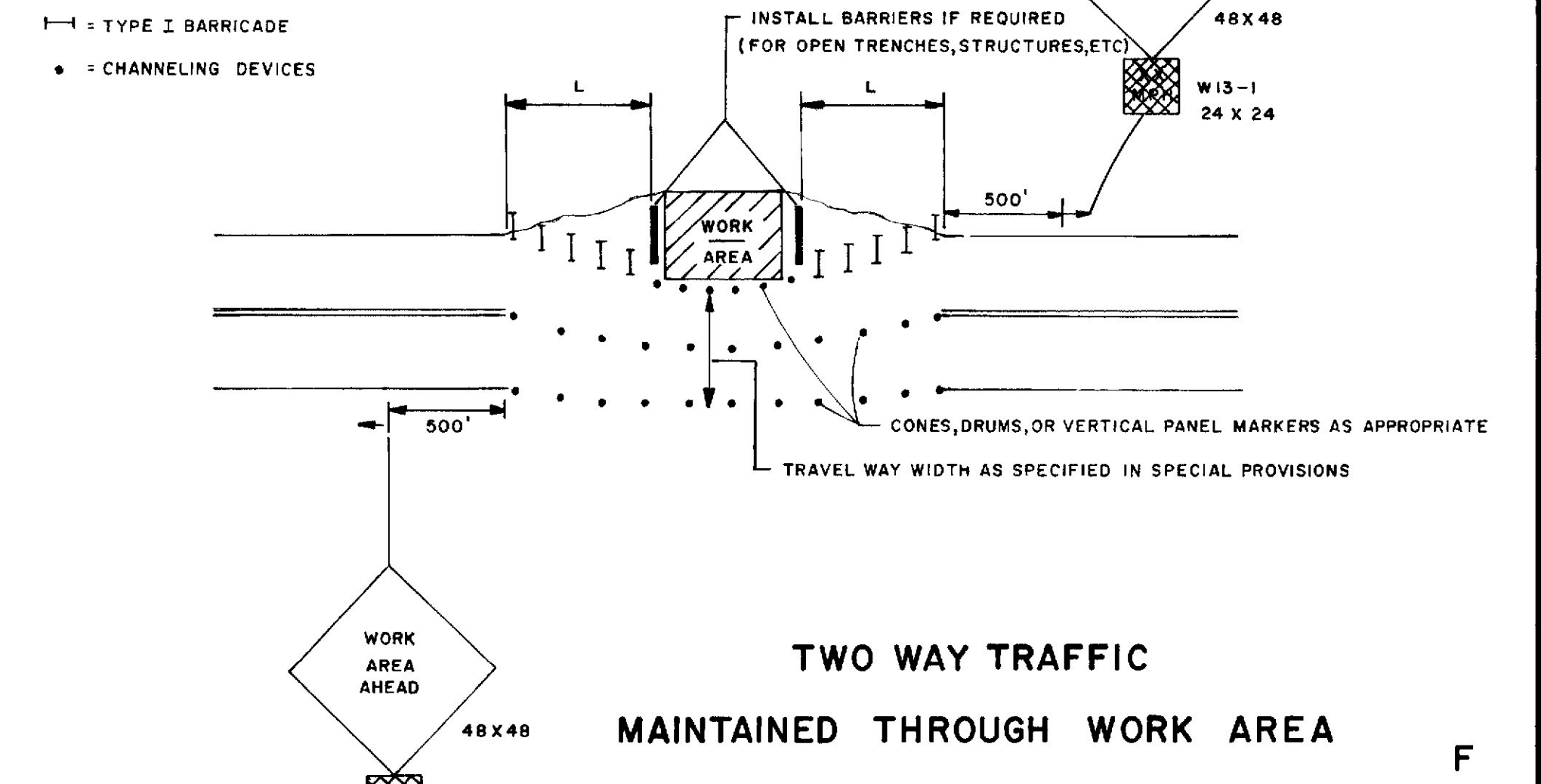


D

NOTE
W20-1 AND GS-100B OR C SHALL BE USED ONLY WHEN THE CLOSURE IS THE ACTUAL CONSTRUCTION PROJECT AND NOT A PART THEREOF.
ALTER PAVEMENT MARKINGS AS NECESSARY.
USE SIMILAR SIGNING FOR RIGHT LANE CLOSURE.



E

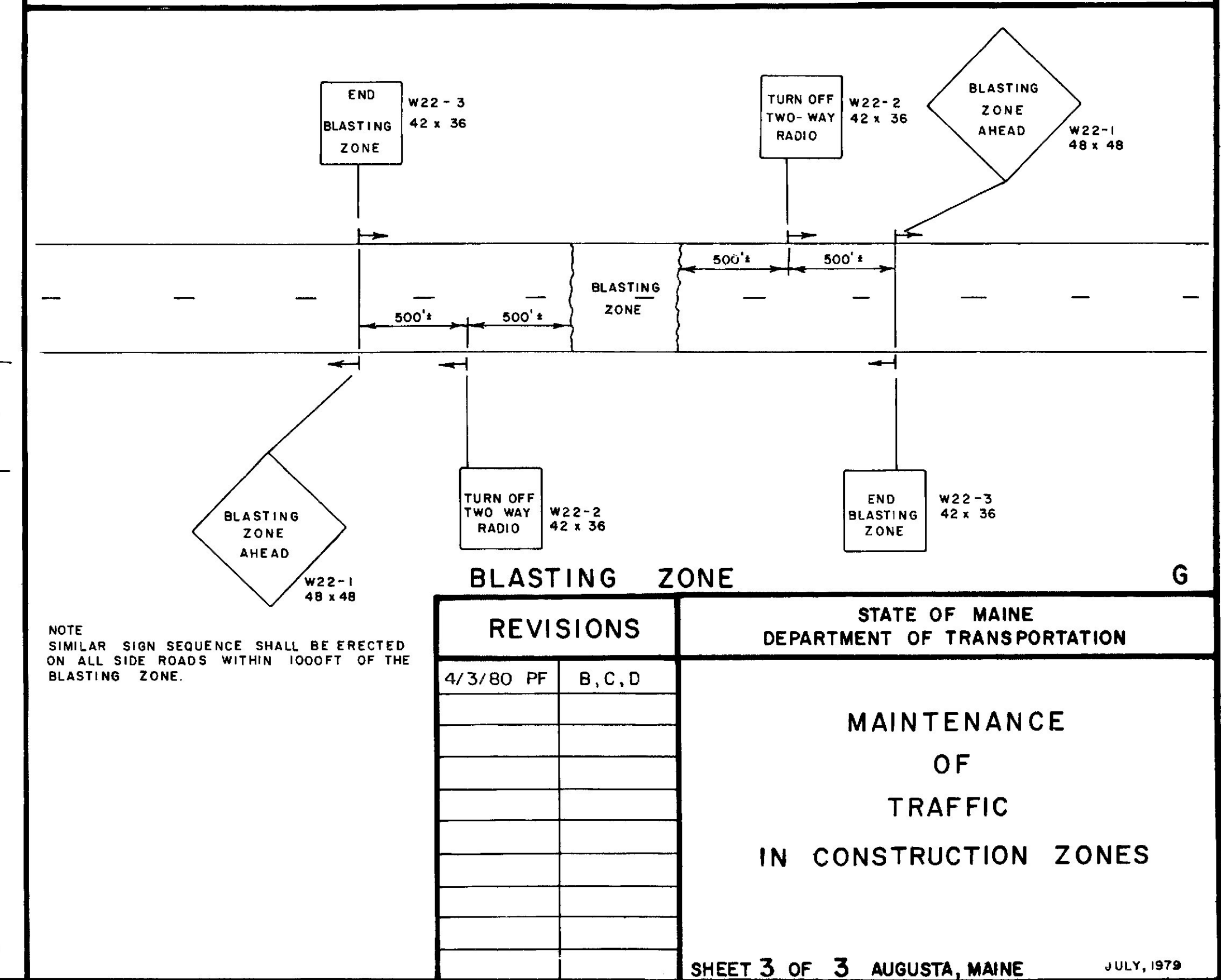
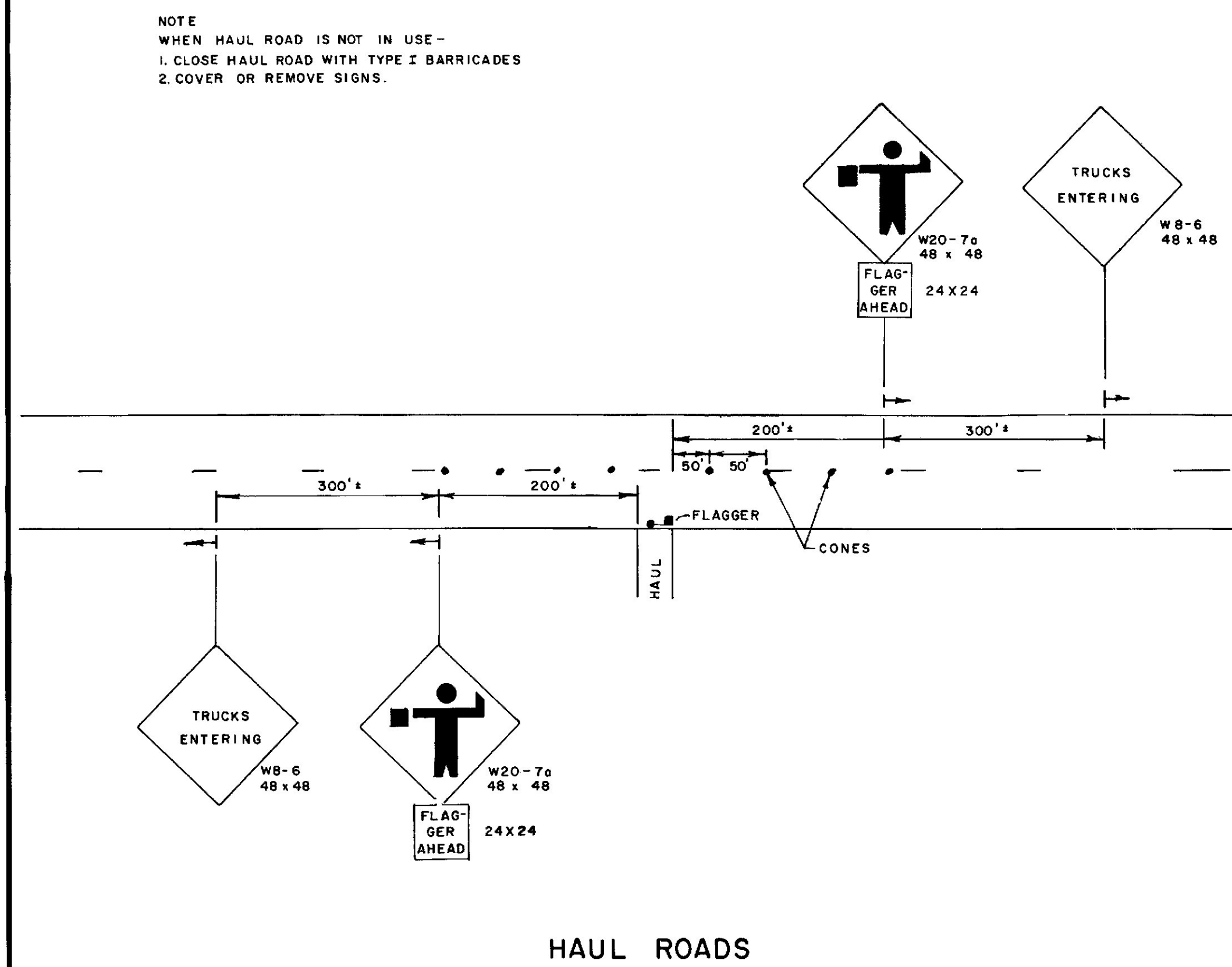
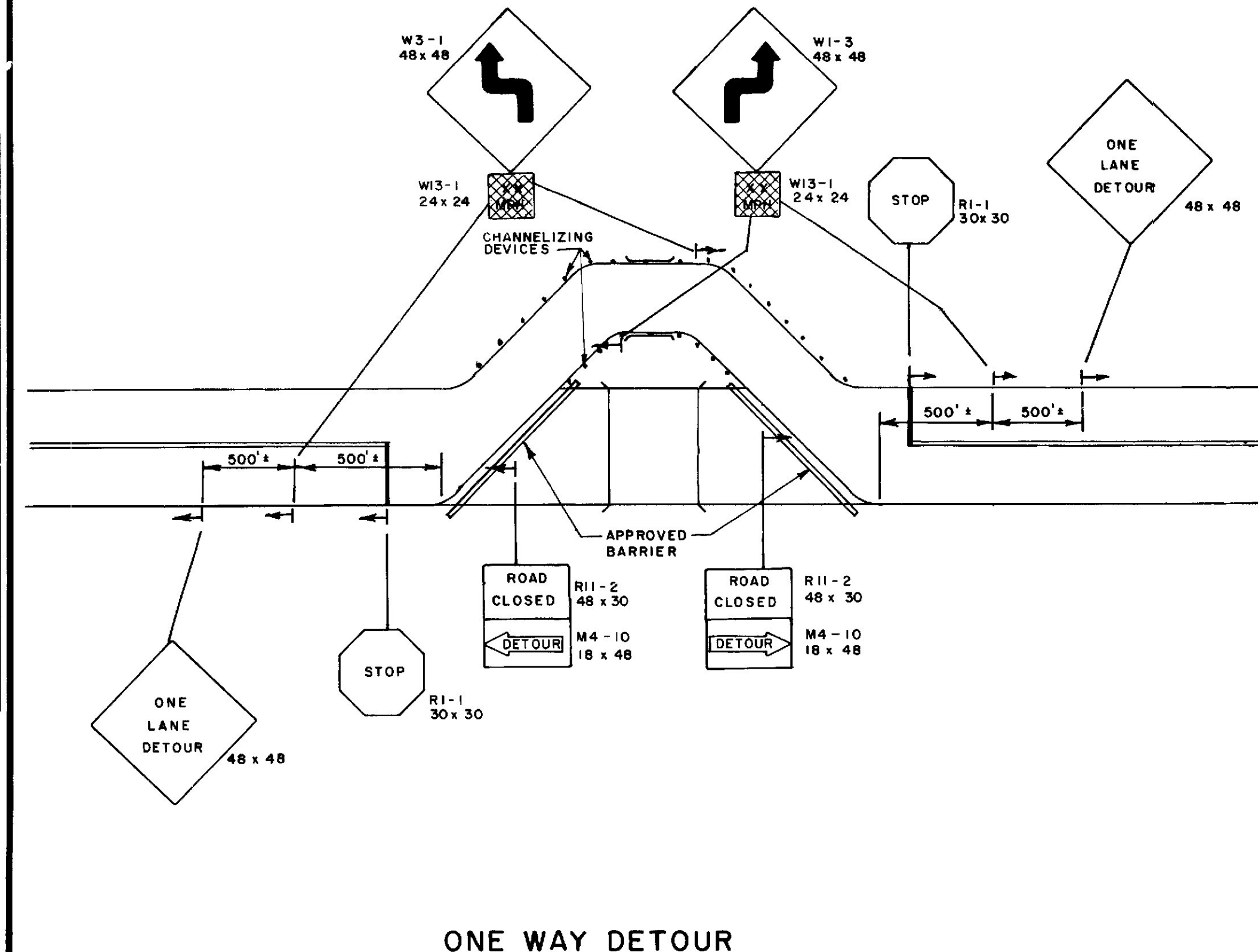
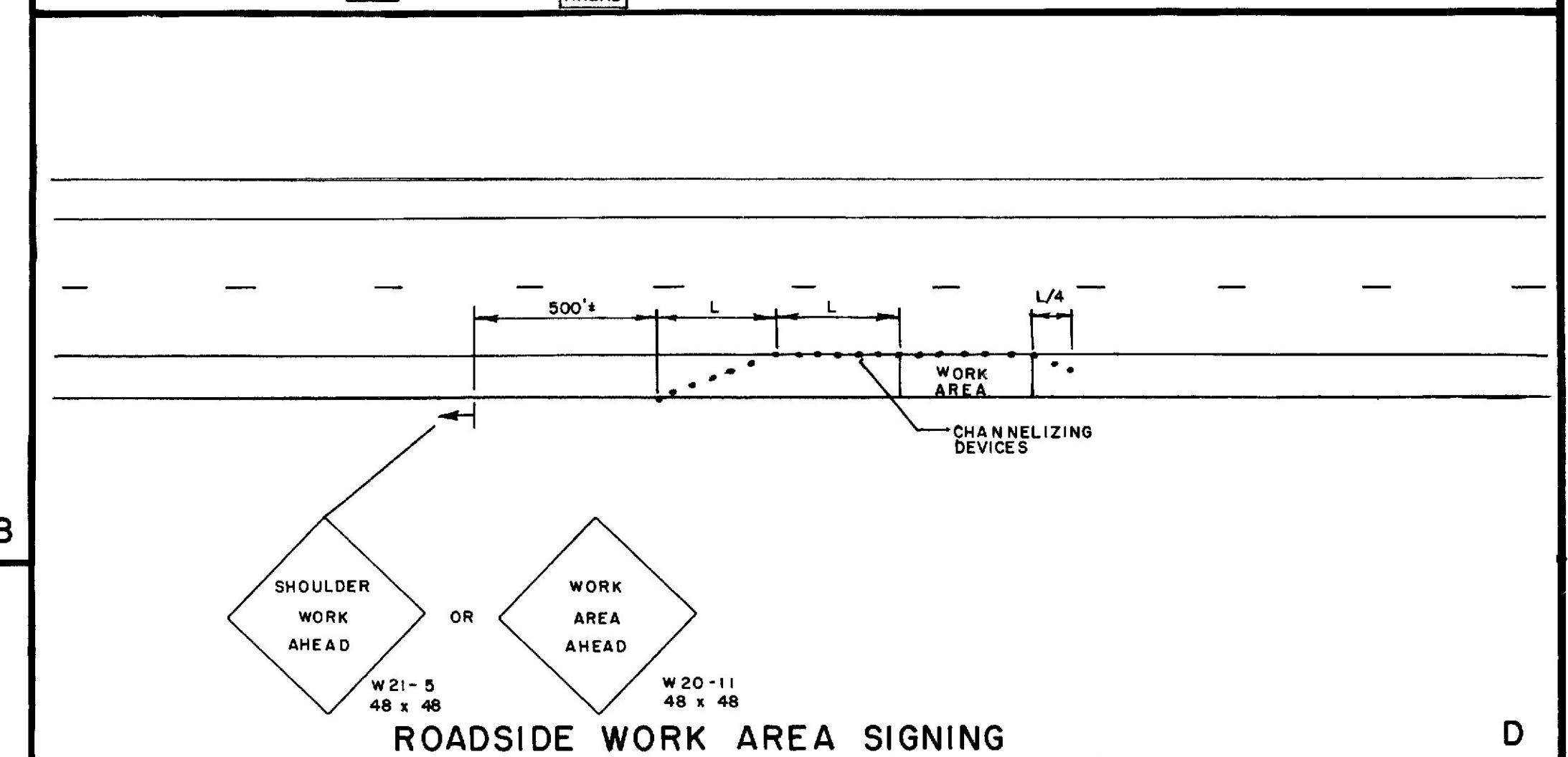
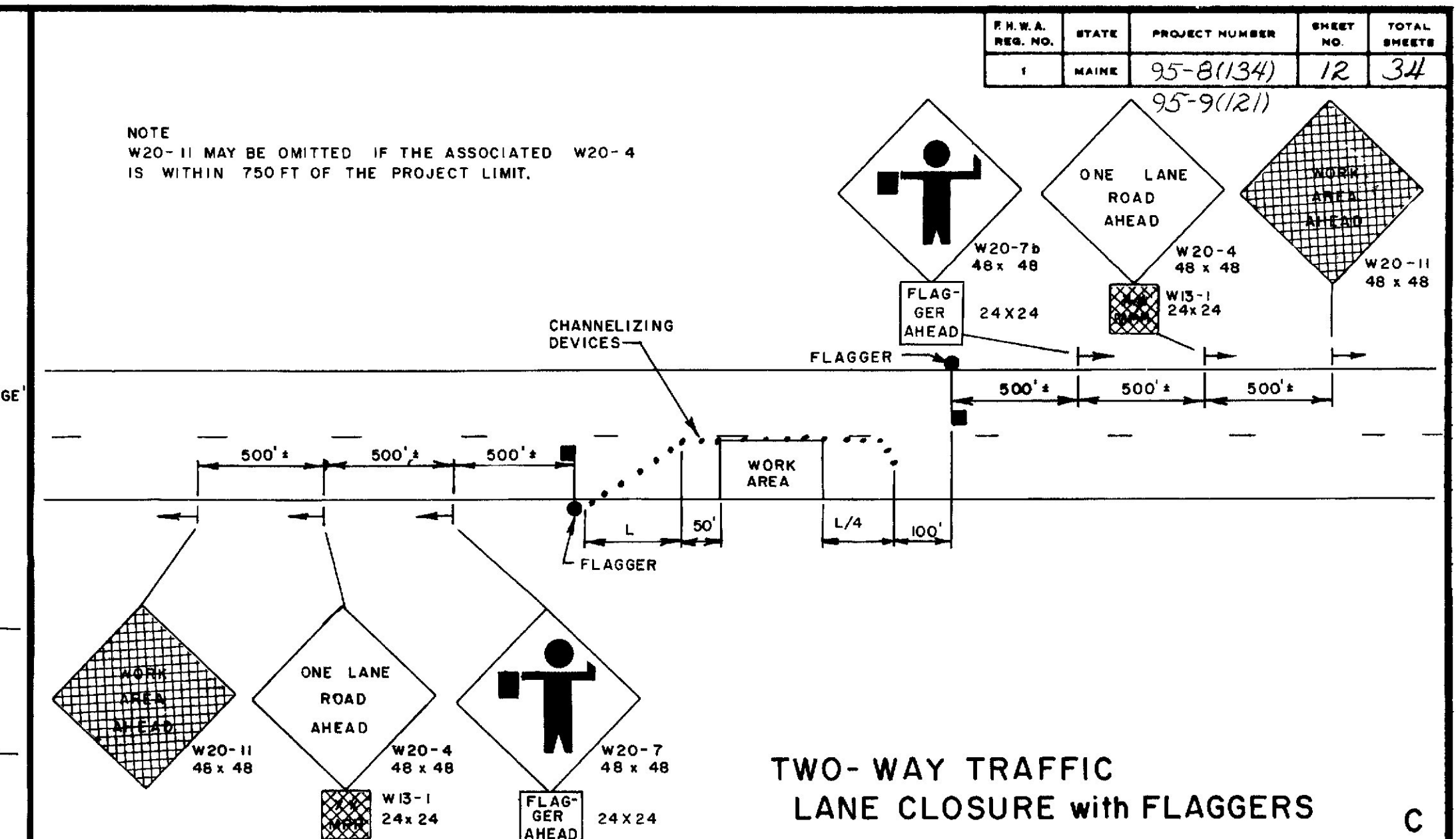
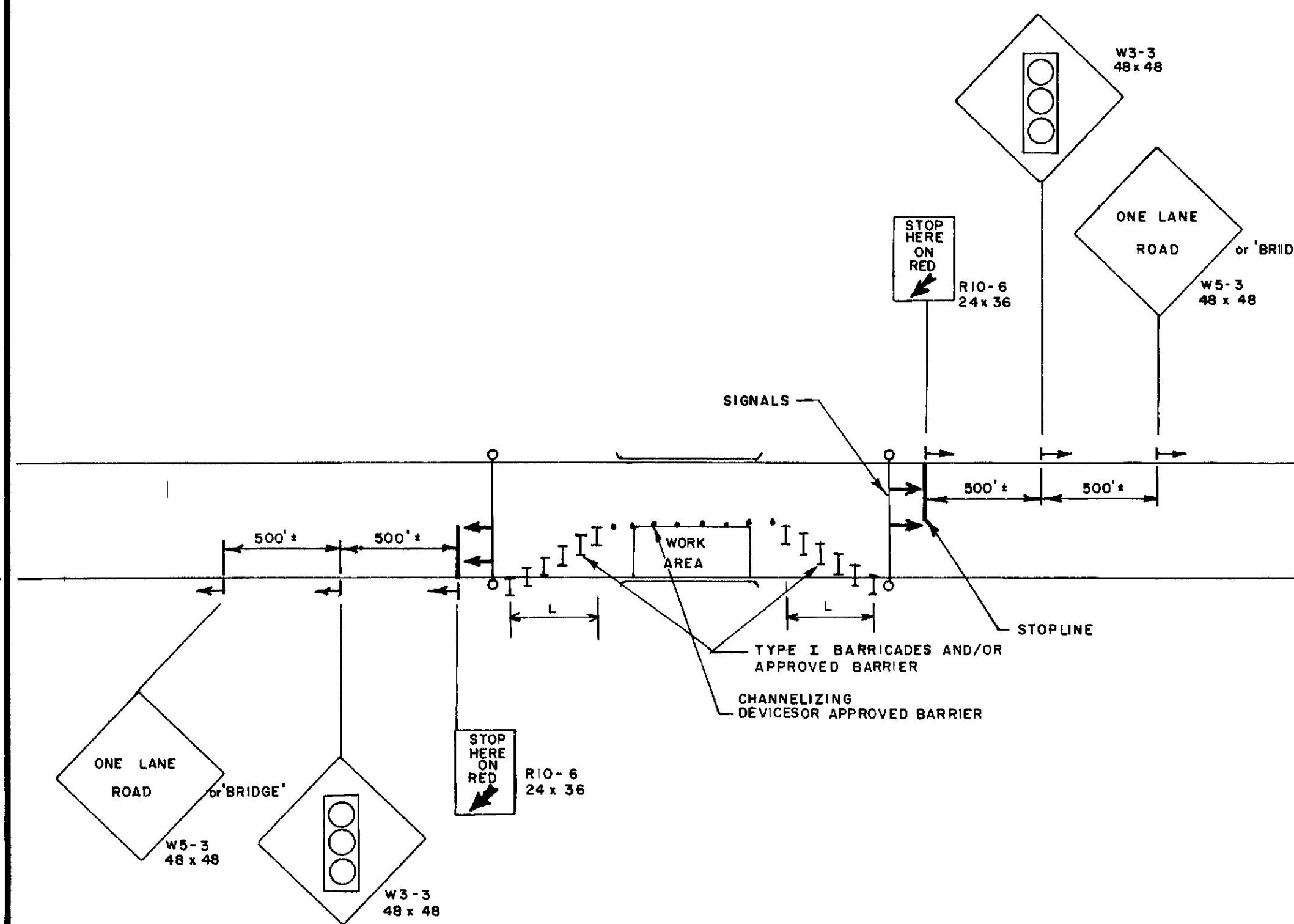
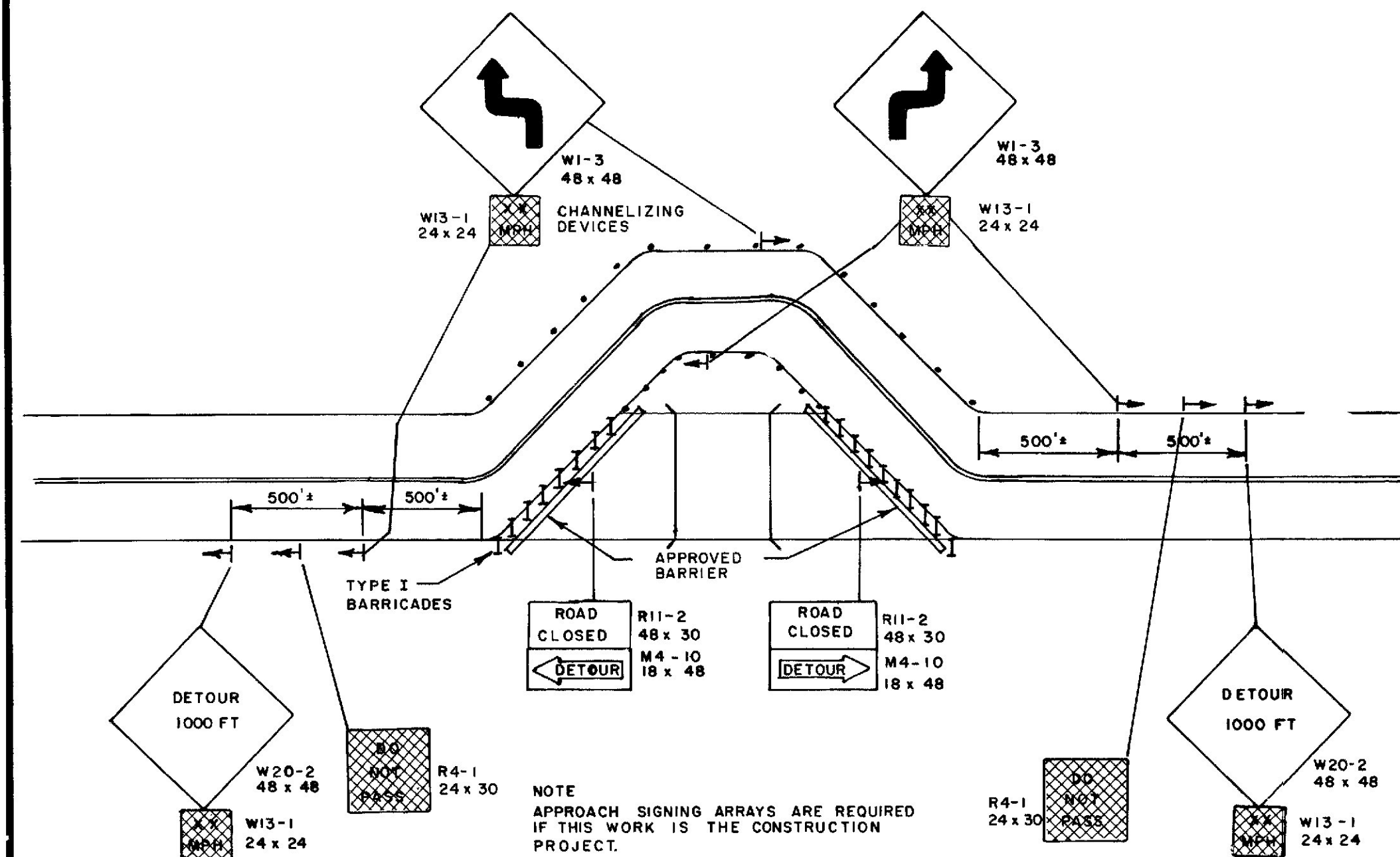


F

PROJECT DESIGN ENGINEER	BY	DATE
PLANS		
DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

REVISIONS	
1-28-80	
3-4-80	PLATE "F"
4/3/80 PF	D,E

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
MAINTENANCE OF TRAFFIC IN CONSTRUCTION ZONES	
SHEET 2 OF 3 AUGUSTA, MAINE JULY, 1979	



PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

GENERAL NOTES

Meets a I I AASHTO "Standard specifications for structural supports for highway signs, luminaires and traffic signals."

All ASTM A325 bolts must be within a hardness range of Rockwell C23 to C31 prior to hot dip galvanizing per ASTM A123.

Fasteners are installed with lockwashers or locknuts and do not have specific torque requirements. Fasteners should be made as tight as possible with conventional wrenches.

Square and level individual components to minimize need for shimming.

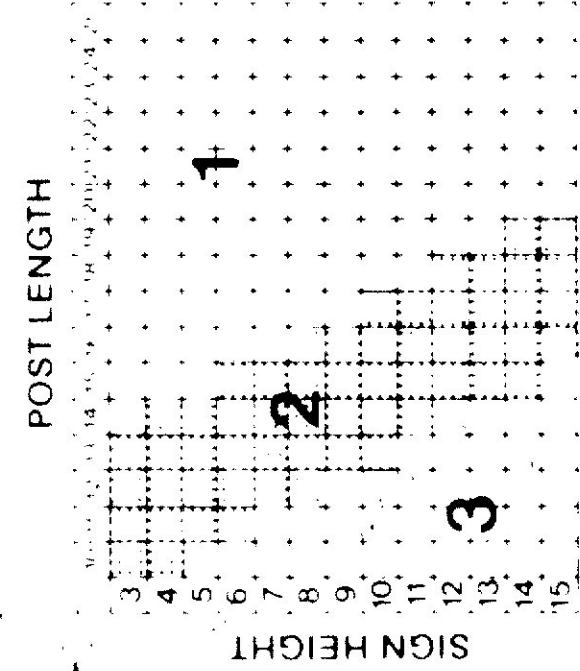
No more than two shims underneath any one coupling and no more than three shims underneath any two couplings.

Structural steel to be hot dip galvanized per ASTM A123 after fabrication.

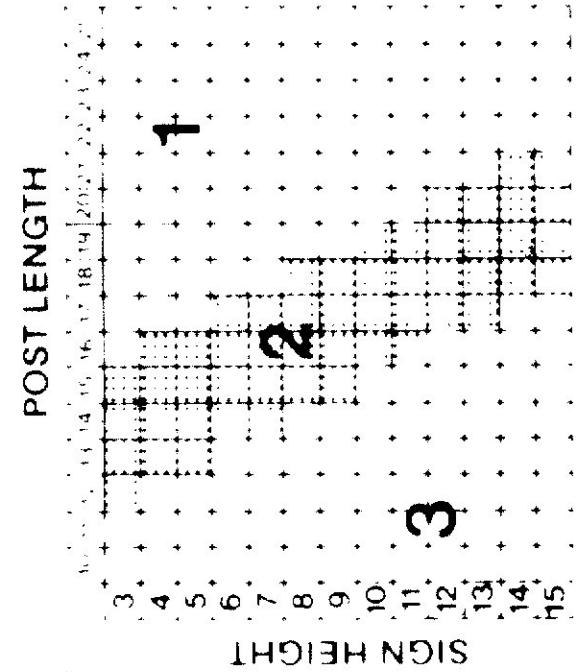
All brackets to be permanently labeled with the appropriate bracket type and bracket selection number.

Select correct bracket number by locating the intersection of sign height and post length in the bracket selection matrix. The intersection will be either Zone 1, 2 or 3 which corresponds to bracket numbers 1, 2 or 3.

6" POST



8" POST



BRACKET TABLES

INSTALLATION NOTES

Wrench sizes required: 9/16", 7/8", 1-1/16", 1-1/4", 1-7/16", 1-5/8"

BRACKET ASSEMBLY

Assemble brackets to post with bolts provided. Square and tighten. (Items 1, 2, 3, 4, 5, 6 and 7)

ANCHOR ASSEMBLY

Assemble coupling anchors 12 to installation template (not shown). Lower entire anchor assembly into fresh concrete and vibrate into position so that the tops of the individual anchors 12 are flush with the finished top surface of the footings.

COUPLING ASSEMBLY

Suspend post over footing and insert special bolts 8 through brackets. Below bracket, thread couplings 9 into anchors 12 but leave loose.

Lower post with special bolts 8 onto loose couplings 9 and thread special bolts into couplings. Thread couplings all the way into anchors 12.

Tighten special bolts 8 with 1-5/8" wrench. NOTE! Do not place torque across necked down portion of coupling — wrench flats are provided on either side for proper tightening.

If post is not plumb, insert shims 10 and 11 between couplings 9 and anchors 12.

HINGE ASSEMBLY

Butt upper and lower posts together on flat surface.

Place hinge plates 13 on outer flanges and secure with 3/4-UNC bolts 14 and 15 — snug but do not tighten.

Make sure upper and lower posts are in alignment; then tighten all nuts 16 to proof load — 1/2 of a turn beyond snug.

BILL OF MATERIALS

ITEM	DESCRIPTION	QTY.	PART NO.
1	Bracket	2	SBBK251A, 2A, 3A
2	Bolt	4	S325BG5250
3	Bolt	4	S325BG5275
4	Bolt	4	S325BG5300
5	Cap Screw	4	S307SG5125
6	Lockwasher	16	S100WGS150
7	Nut	12	S194NGHH50
8	Special Bolt	4	SBCSBB
9	Coupling	4	SBCB1A
10	Shim	2	S100WGS18
11	Shim	2	S100WGS14
12	Anchor	4	SBAABP
13	Hinge Plate	4	SBH1B
14	Bolt	8	S325BG7225
15	Lockwasher	8	S100WGS170
16	Nut	8	S194NGHH70

BREAKAWAY STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS

SHEET 1 OF 2 AUGUSTA, MAINE

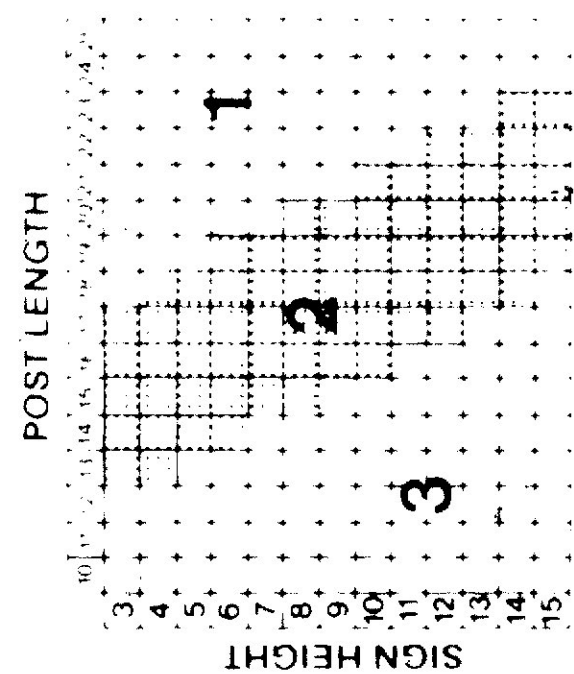
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
95-8(134)	13	34
95-9(121)		

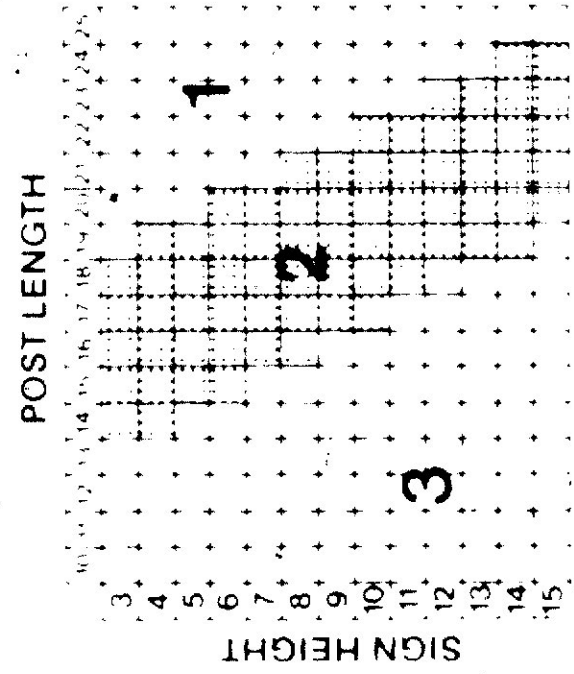
GENERAL NOTES

- Meets a 11 AASHTO "Standard specifications for structural supports for highway signs, luminaires and traffic signals"
- All ASTM A325 bolts must be within a hardness range of Rockwell C23 to C31 prior to hot dip galvanizing per ASTM A123
- Fasteners are installed with lockwashers or locknuts and do not have specific torque requirements. Fasteners should be made as tight as possible with conventional wrenches
- Square and level individual components to minimize need for shimming
- No more than two shims underneath any one coupling and no more than three shims underneath any two couplings.
- Structural steel to be hot dip galvanized per ASTM A123 after fabrication.
- All brackets to be permanently labeled with the appropriate bracket type and bracket selection number.
- Select correct bracket number by locating the intersection of sign height and post length in the bracket selection matrix. The intersection will be either Zone 1, 2 or 3 which corresponds to bracket numbers 1, 2 or 3.

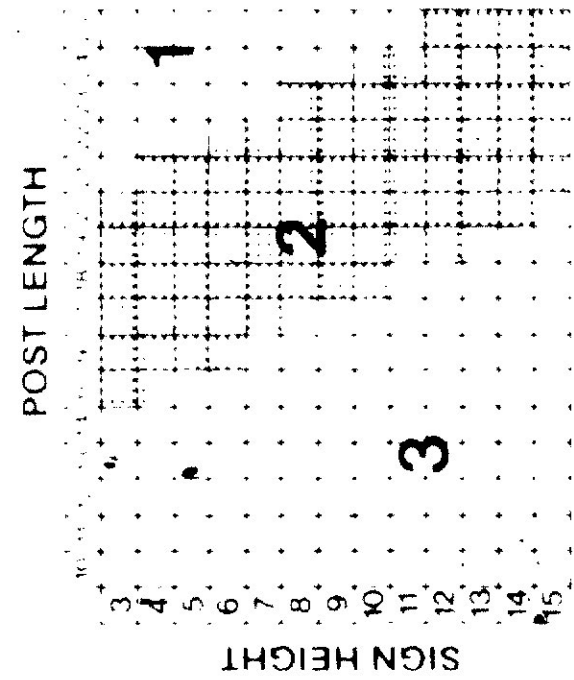
10" POST



12" POST



14" POST



BRACKET TABLES

INSTALLATION NOTES

Wrench sizes required: 9/16": 7/8"; 1-1/16": 1-1/4"; 1-7/16": 1-5/8"

BRACKET ASSEMBLY

Assemble brackets to post with bolts provided. Square and tighten. (Items 1, 2, 3, 4, 5, 6 and 7.)

ANCHOR ASSEMBLY

Assemble coupling anchors 12 to installation template (not shown). Lower entire anchor assembly into fresh concrete and vibrate into position so that the tops of the individual anchors 12 are flush with the finished top surface of the footings.

COUPLING ASSEMBLY

Suspend post over footing and insert special bolts 8 through brackets

Below bracket, thread couplings 9 into anchors 12 but leave loose.

Lower post with special bolts 8 onto loose couplings 9 and thread special bolts into couplings. Thread couplings all the way into anchors 12.

Tighten special bolts 8 with 1-5/8" wrench. NOTE! Do not place torque across necked down portion of coupling — wrench flats are provided on either side for proper tightening.

If post is not plumb, insert shims 10 and 11 between couplings 9 and anchors 12.

HINGE ASSEMBLY

Butt upper and lower posts together on flat surface.

Place hinge plates 13 on outer flanges and secure with 3/4-UNC bolts 14, 15 and 16 — snug but do not tighten.

Make sure upper and lower posts are in alignment; then tighten all nuts 16 to proof load — 1/2 of a turn beyond snug.

BILL OF MATERIALS

ITEM	DESCRIPTION	QTY	PART NO.
1	Bracket	2	SBBK650-1A-2A-3A
2	Bolt	4	S25BG6275
3	Bolt	4	S25BG6275
4	Bolt	4	S25BG6275
5	Cap Screw	4	S307SG6125
6	Lockwasher	16	S100WGS160
7	Nut	12	S194NGHH60
8	Special Bolt	4	SBCSRB
9	Coupling	2	S100WGS18
10	Shim	2	S100WGS14
11	Anchor	4	SBBP
12	Hinge Plate	4	SBBP2B
13	Hinge Plate	4	SBBP2B
14	Bolt	8	S100WGS170
15	Lockwasher	8	S194NGHH70
16	Nut	8	S194NGHH70

BREAKAWAY STRUCTURAL
SUPPORTS FOR HIGHWAY
SIGNS, LUMINAIRES
AND TRAFFIC SIGNALS

SHEET 2 OF 2 AUGUSTA, MAINE

T2R8-T2R9-MEDWAY

95-B(134)/95-9(121)

5/4/87
D-G50-LP

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	95-B(134) 95-9(121)	14	34

FINAL SURVEY NOTE BOOK NO.	SURVEYED	BY	DATE
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED	BY	DATE
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



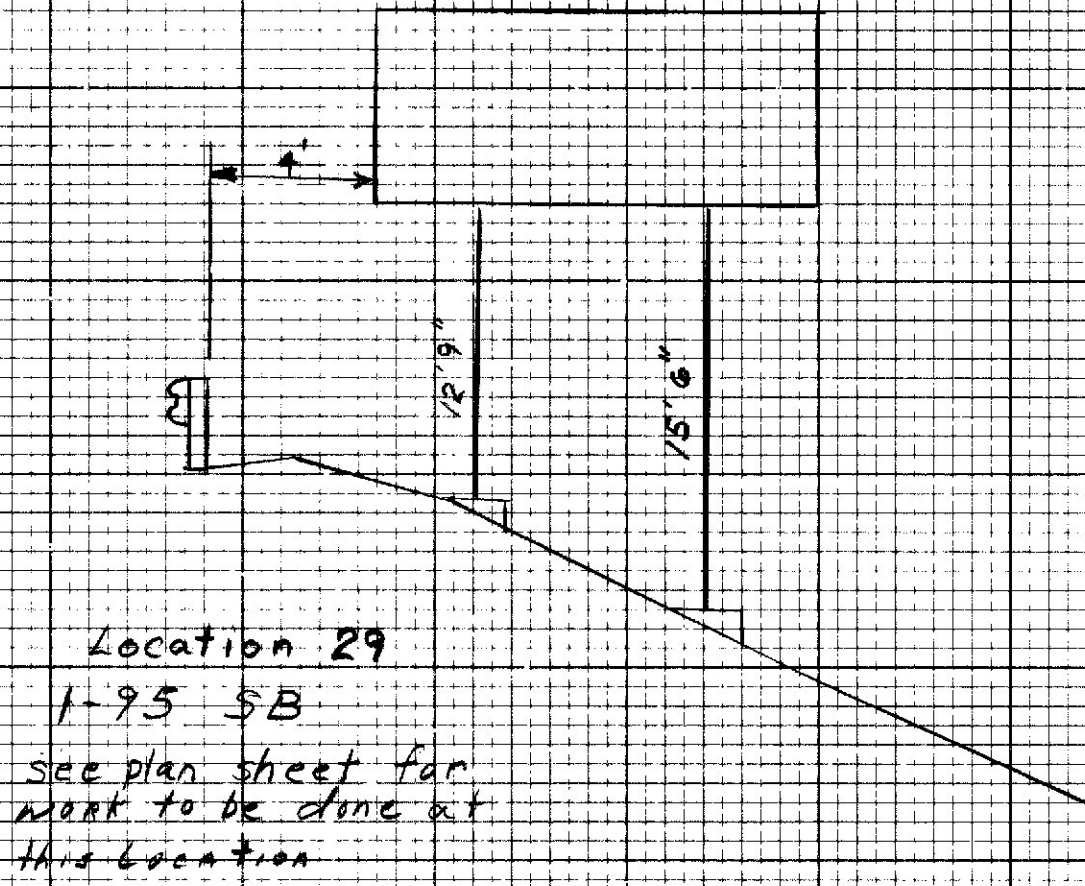
Sign Location
Section
13(134)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

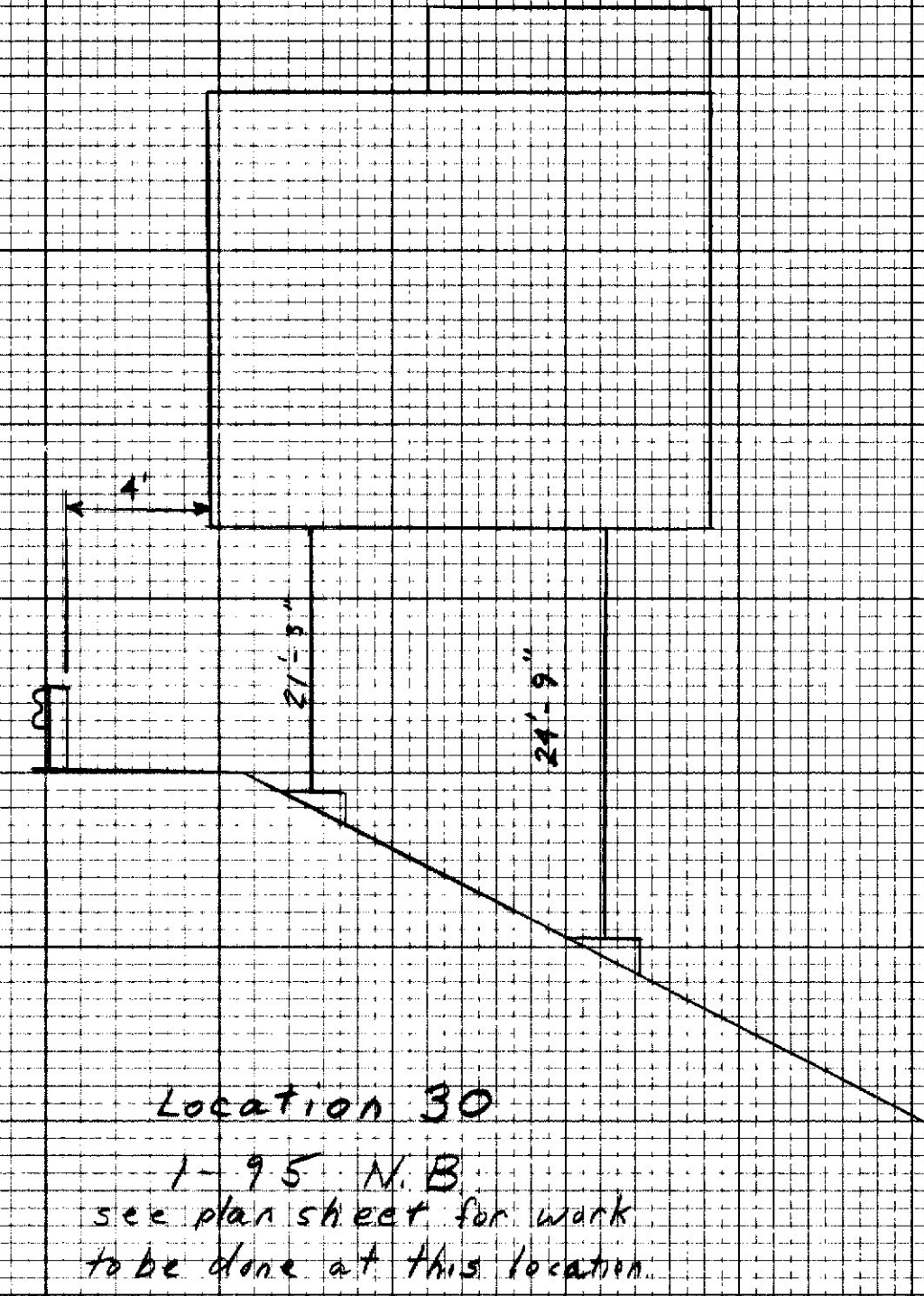
SIGN LOCATION
CROSS SECTIONS

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1R-95-9(121)	23	34

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREA CHECKED	BY	DATE



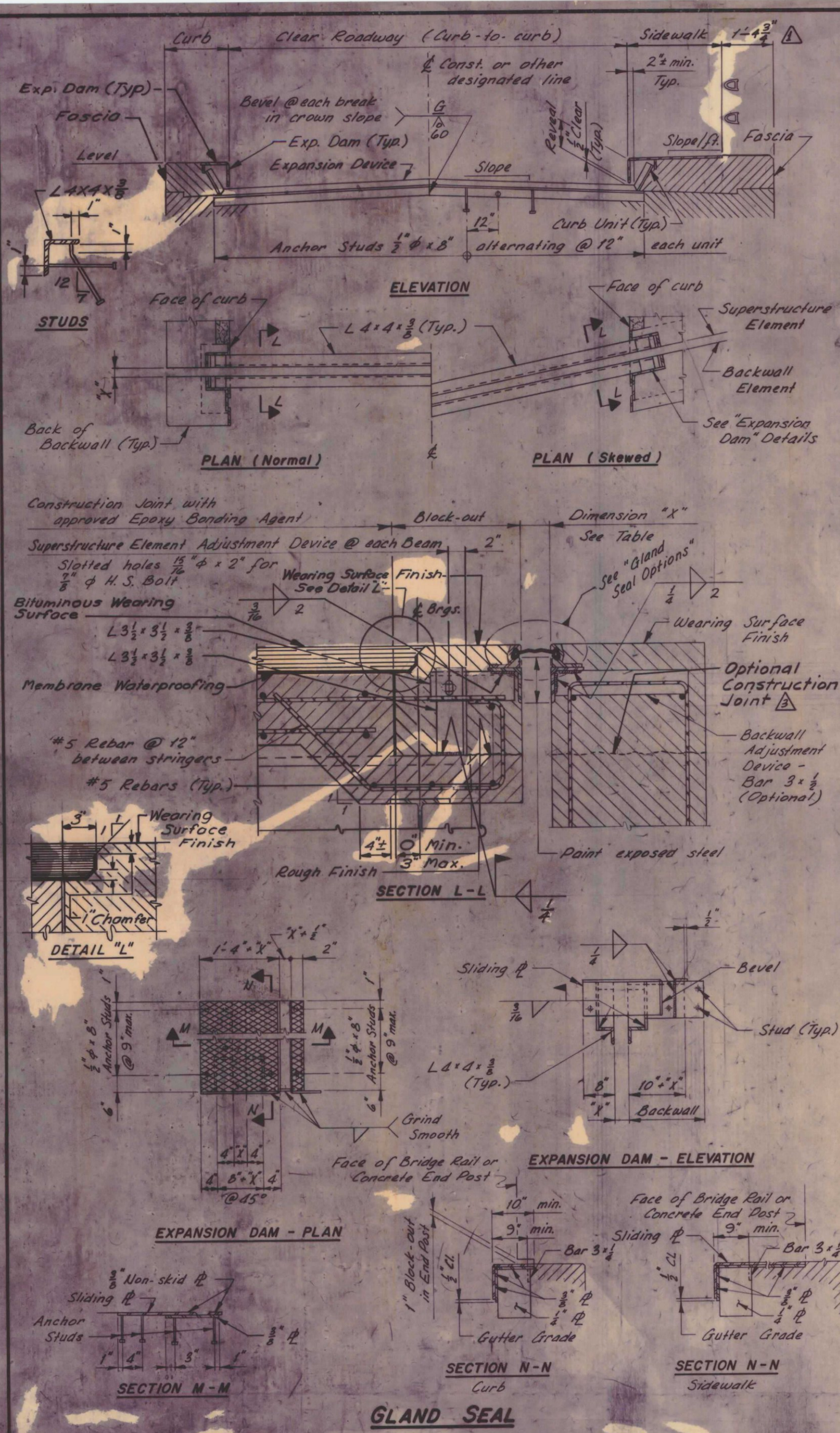
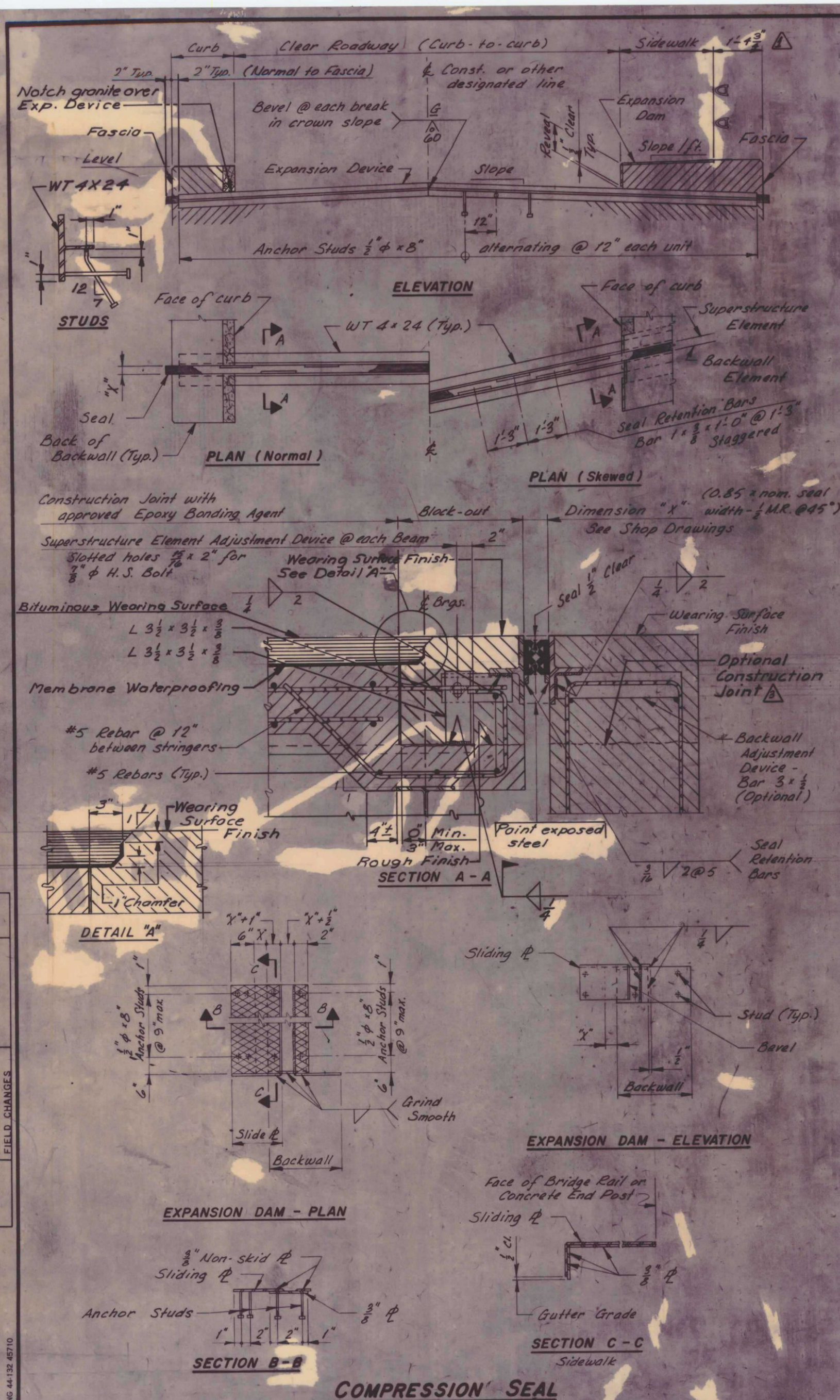
ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREA CHECKED	BY	DATE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SIGN LOCATION
CROSS SECTIONS

PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	BY D. Doreen Aug. 81
CHECKED	
REVISIONS	
FIELD CHANGES	
PLANS	

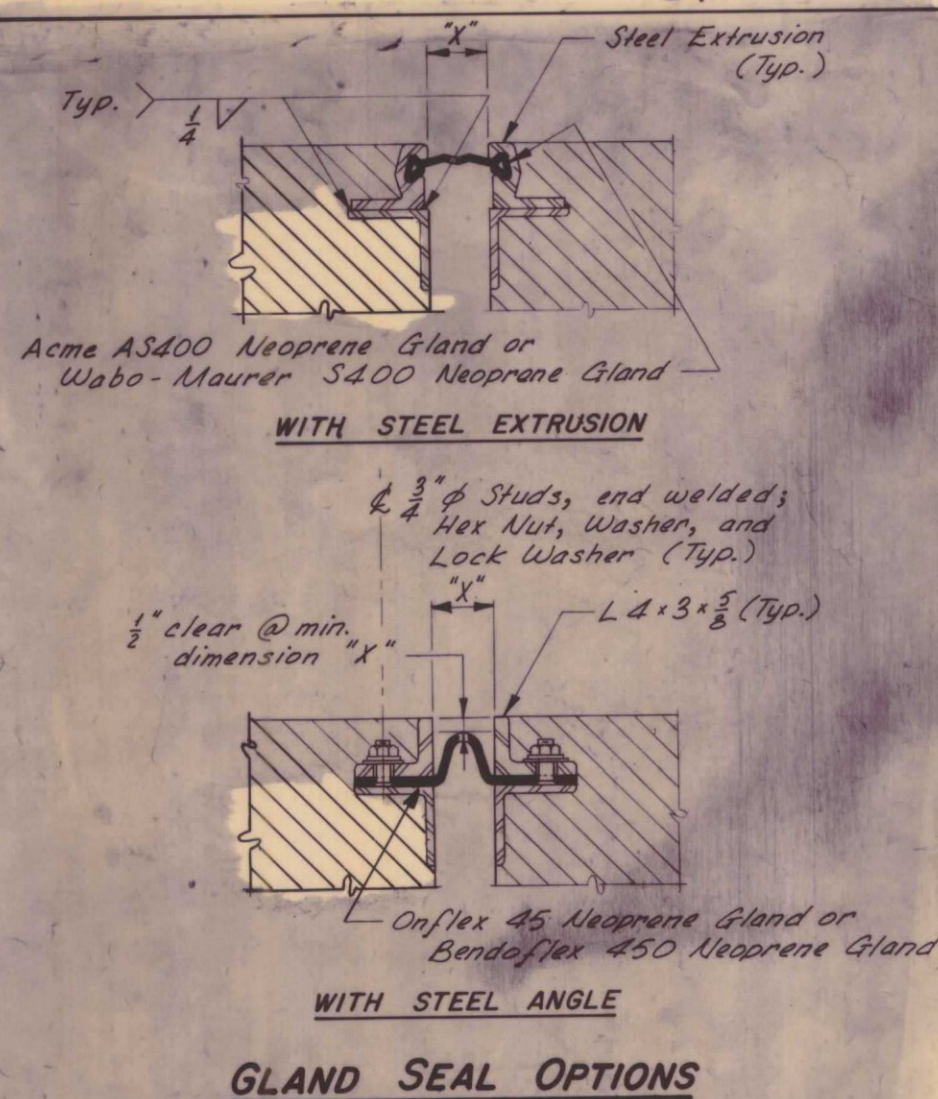


NOTES:

IR-95-8(134)
IR-95-9(121)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	IR-95-8(133)	33	34

- Each Expansion Device Unit consists of one pair of matching Elements and Expansion Dams as required. At joints over Diers, two Superstructure Elements shall be used.
- Welding to reinforcing steel will be allowed in the top 1'-6" of the Abutment backwall.
- See Design Drawings for dimensions, slopes, skew, and all other information necessary to fabricate and install the units. Expansion Devices shall be installed normal to grade.
- The concrete in the Superstructure Adjustment Device Block-out may be placed with the curb & sidewalk concrete.
- If there is a conflict between these Standard details and the Design Drawings, the requirements of the Design Drawings shall be followed.
- Max. dimension "X" allowed = 3 1/2" at -30°F.



Total Movement Required *	Dim. "X" (Measured parallel to 1/2 of Roadway) TEMPERATURE (°F)										
	720°	105°	90°	75°	60°	45°	30°	15°	0°	-15°	-30°
1 1/2"	1"	1 1/8"	1 1/4"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"	2 1/2"	2 3/4"
2"	1 1/8"	1 1/4"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"	2 1/2"	2 3/4"	3"
2 1/2"	1 1/4"	1 1/2"	1 3/4"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"	2 1/2"	2 3/4"	3 1/4"
3"	1 1/2"	1 3/4"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"	2 1/2"	2 3/4"	3 1/4"	3 1/2"

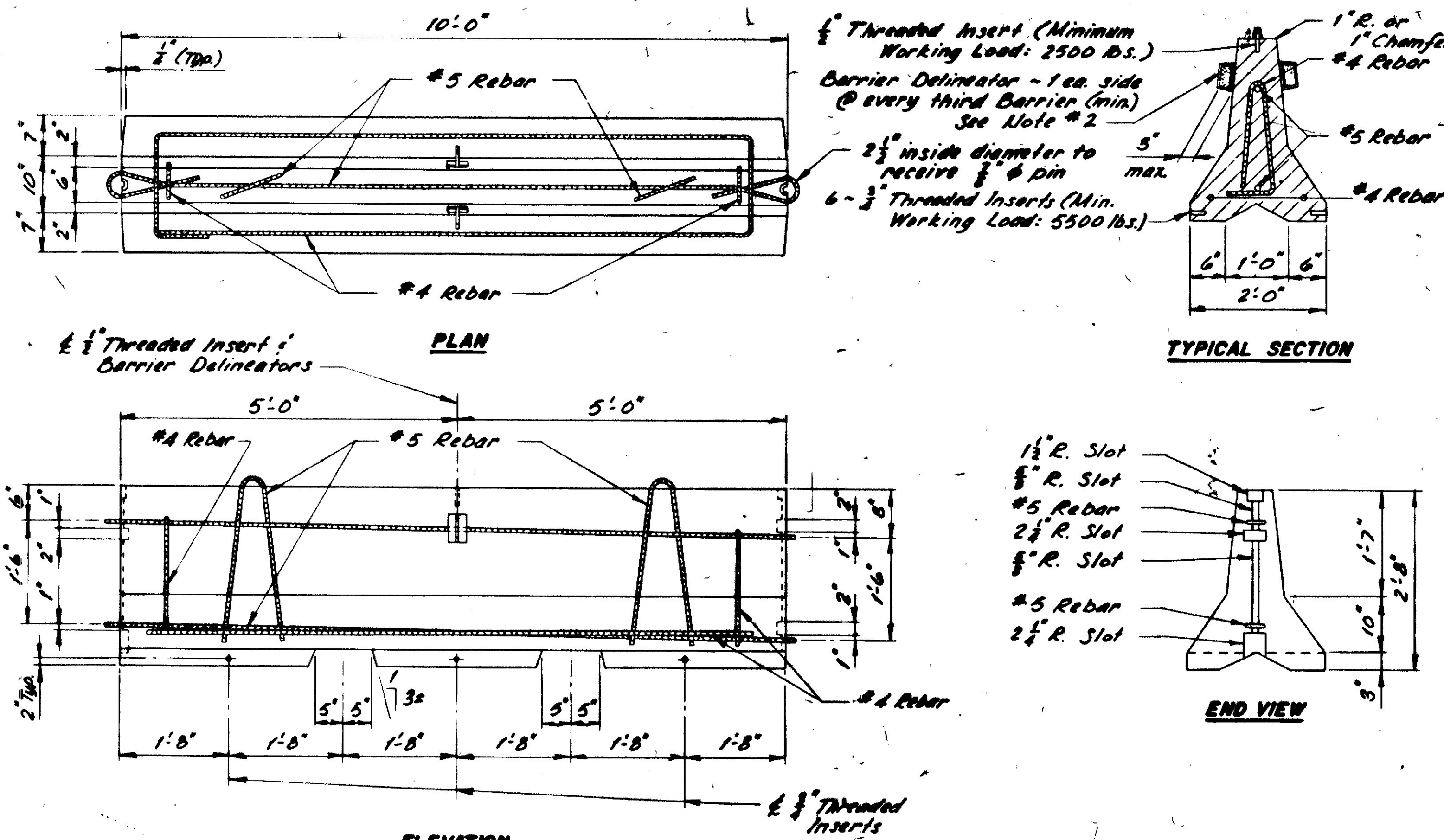
* Multiply expanding length of Superstructure, in feet, by .0125 in./ft. Max. Dimension "X" allowed = 3 1/2" at -30°F

REVISIONS	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
General Revisions	1-83	
Added Note	1-85	
Optional Joint	11-86	

STANDARD DETAILS
(BD 125 - 82)
(FOR USE WITH BITUMINOUS WEARING SURFACE)
EXPANSION DEVICE
COMPRESSION SEAL
GLAND SEAL

SHEET 10 OF 11 AUGUSTA, MAINE AUGUST 1982

HOWLAND-T2R8-T2R9-MEDWAY 95-8(133)/95-8(134)/95-9(121)

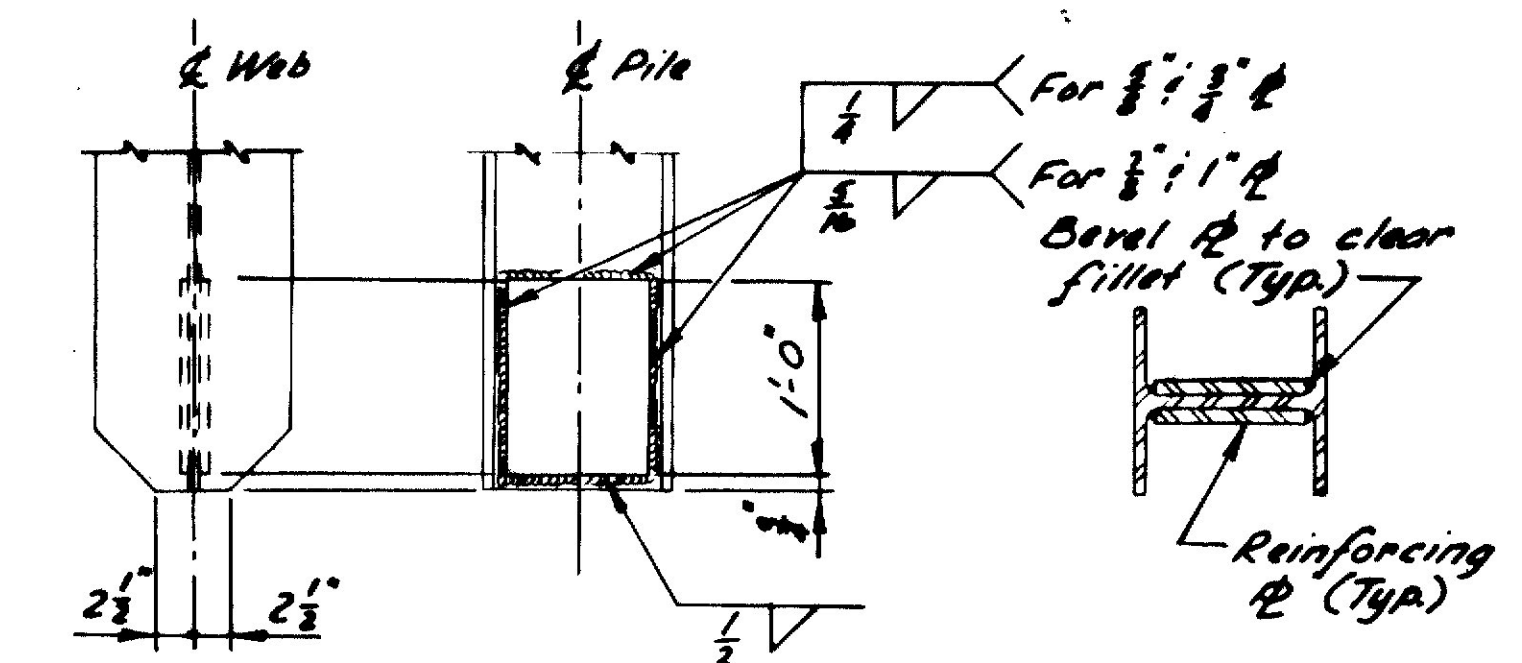


TEMPORARY CONCRETE BARRIER - TYPE 1

CONNECTING PIN

NOTES:

- The reinforcing steel, end connections, lifting arrangement, and sizes and locations of hold-down inserts are advisory only. It shall be the Contractor's responsibility to provide adequate reinforcing, and connections, lifting points, and hold-down arrangements.
- Barrier Delineators shall be bi-directional with a minimum effective reflex area of 8.0 square inches as approved by the Engineer. The Reflector shall preferably be of Methyl Methacrylate, and the Housing of Acrylonitrile Butadiene Styrene.

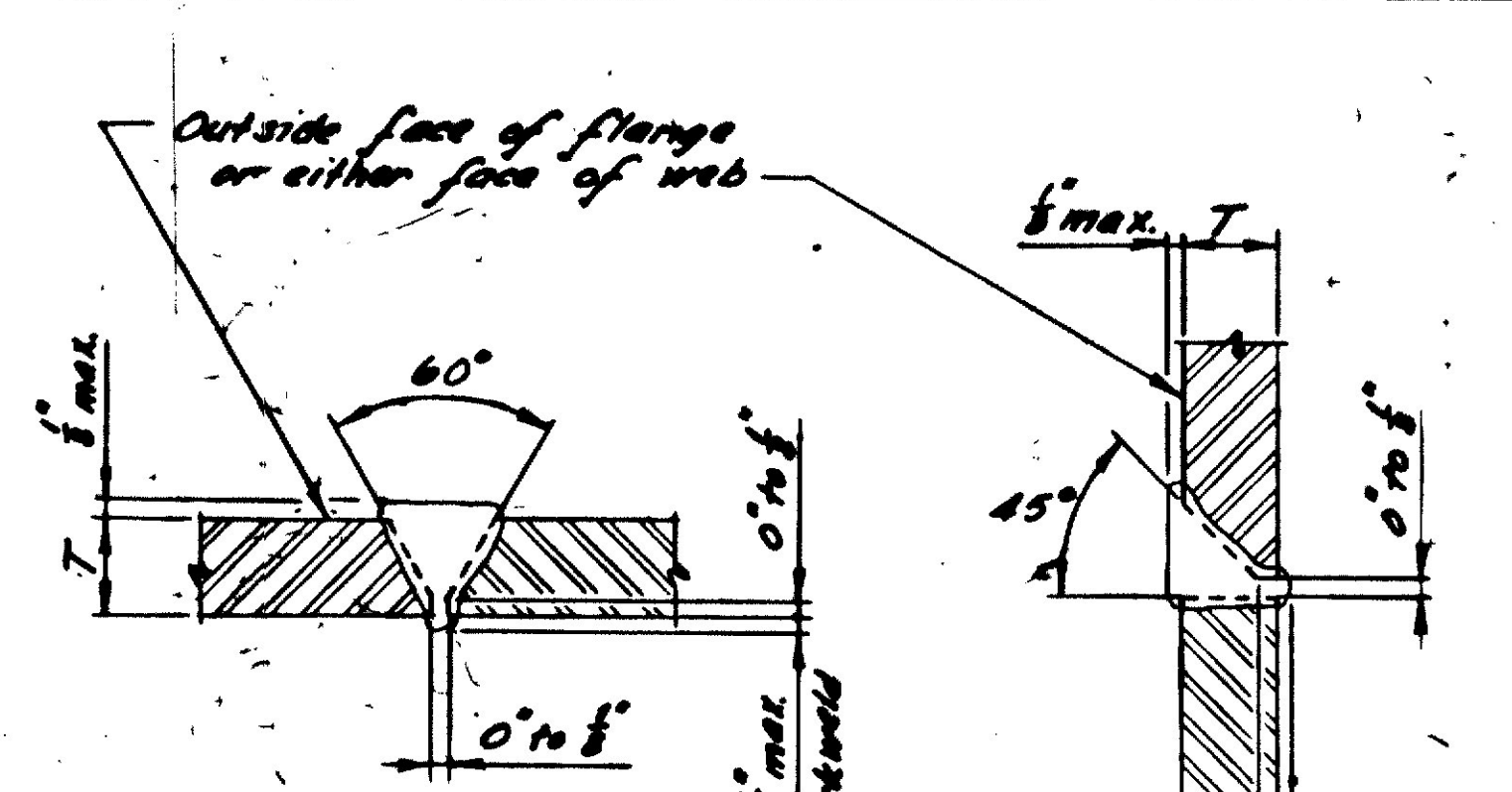


Pile Size	Reinf. ϕ Size	Pile Size	Reinf. ϕ Size
HP 10x42	8 3/4" x 5/8" x 1'-0"	HP 13x60 Δ	11 1/2" x 3/4" x 1'-0"
HP 10x57	8 3/4" x 5/8" x 1'-0"	HP 13x73 Δ	11 1/2" x 3/4" x 1'-0"
HP 12x53	10 3/4" x 3/4" x 1'-0"	HP 13x87 Δ	11 1/2" x 1" x 1'-0"
HP 12x63	10 3/4" x 3/4" x 1'-0"	HP 14x73	12 1/2" x 3/4" x 1'-0"
HP 12x74	10 3/4" x 7/8" x 1'-0"	HP 14x89	12 1/2" x 1" x 1'-0"

NOTES:

- At the Contractor's option, prefabricated cast steel pointed pile tips may be used in lieu of the reinforced pile tip shown, provided they have a cross-sectional area of 1 1/2 times the area of the pile at a point 3/4 inches above the bottom of the prefabricated tip, and are approved by the Engineer.
- Plates may be shop or field welded.
- Use Manual Shielded-Arc Process and 6010, 6011, or 6012 electrodes, unless a different process has been approved by the Engineer.
- Electrodes shall be dry when used, in accordance with the provisions of A.W.S. Spec. D.II, as amended by AASHTO.

POINTED REINFORCED PILE TIP

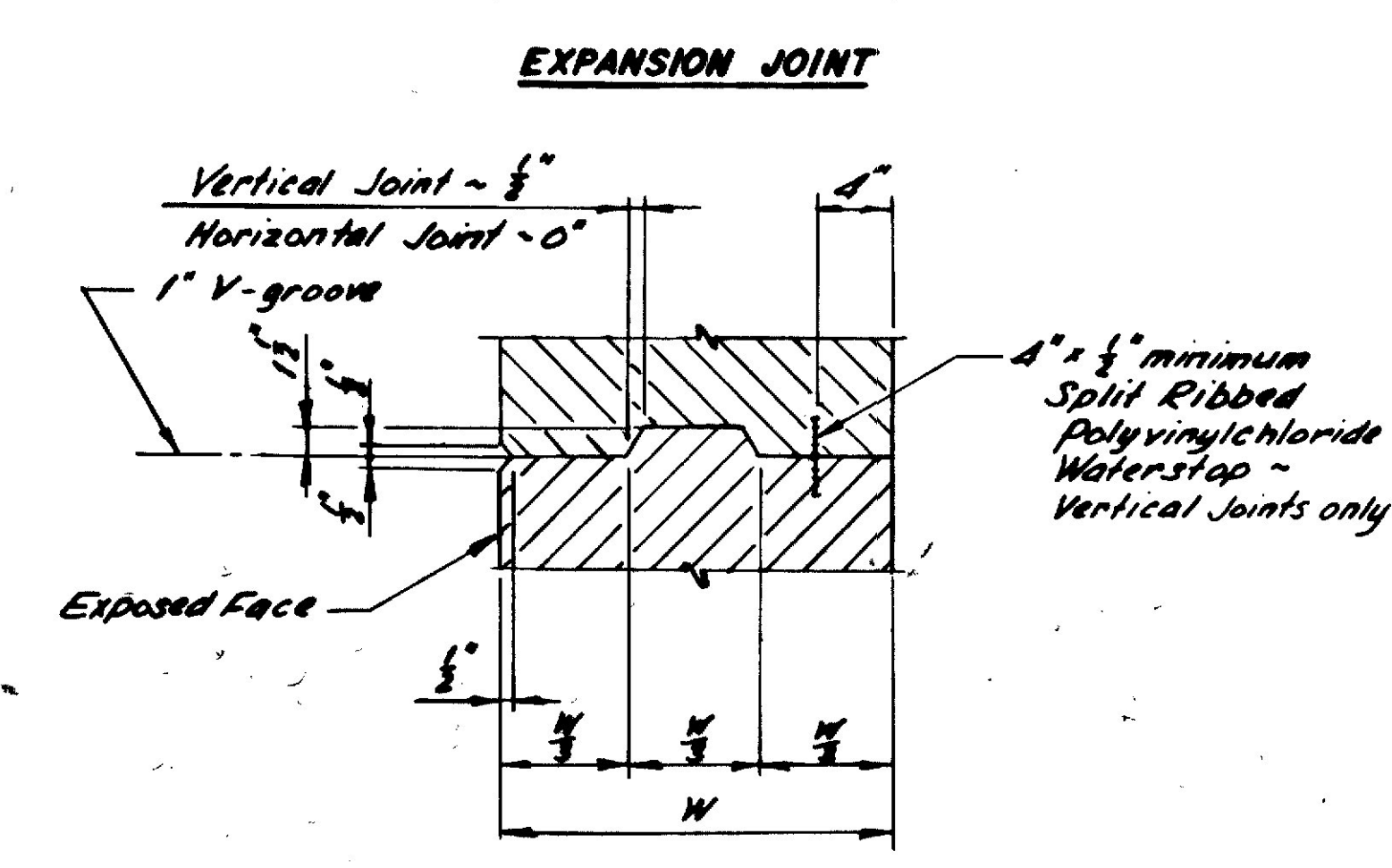
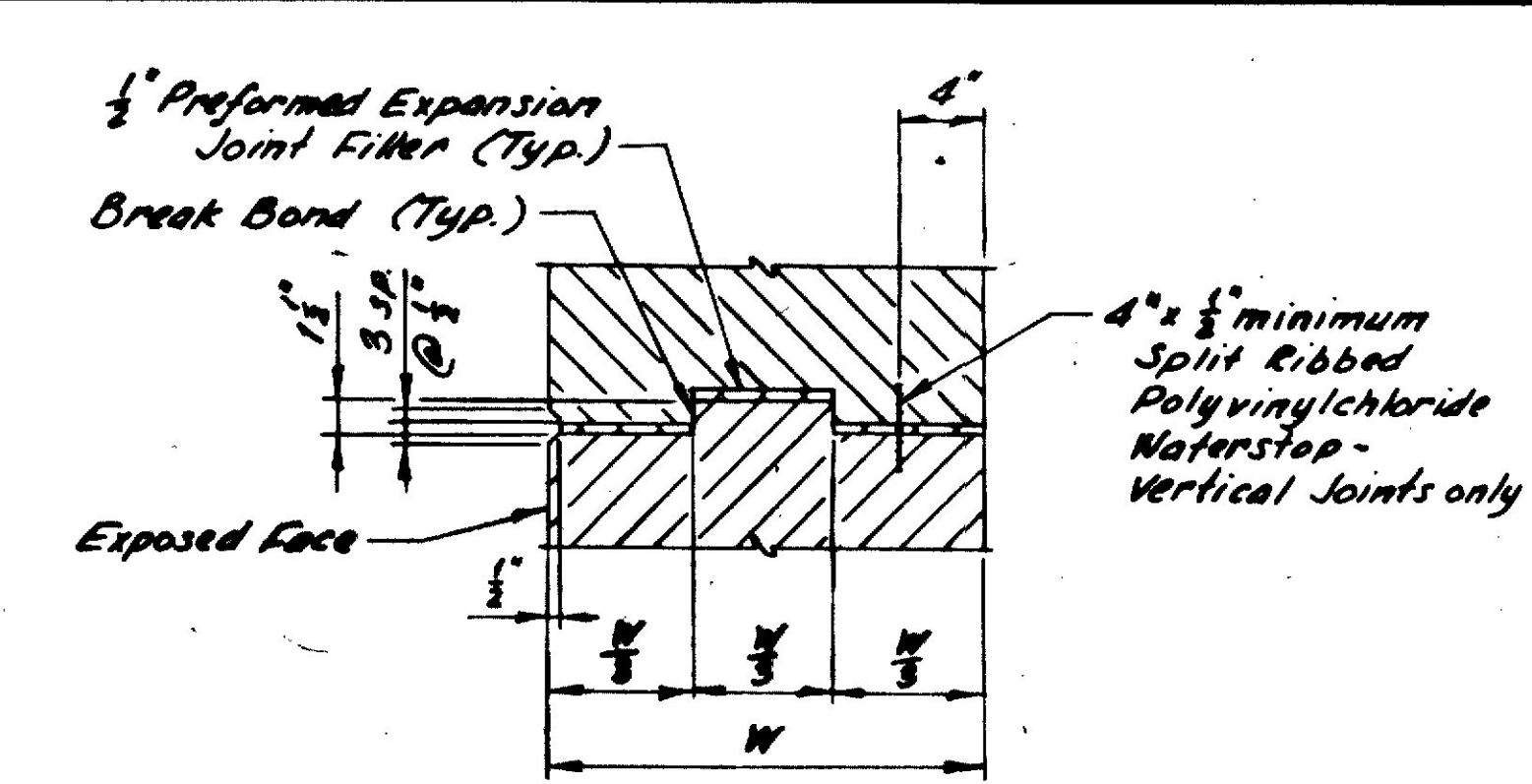


NOTES:

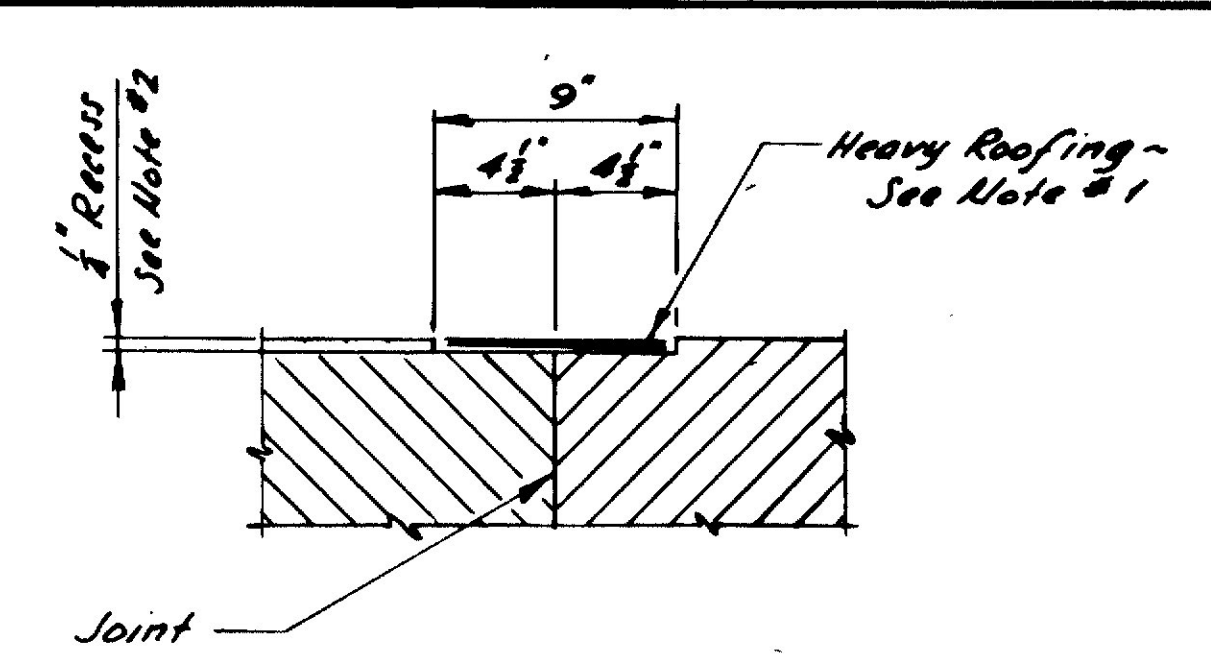
- All cutting shall be done with the use of a mechanical guide.
- Use Manual Shielded Metal-Arc Process and 6010, 6011, or 6012 electrodes, unless a different process has been approved by the Engineer.
- Electrodes shall be dry when used, in accordance with the provisions of A.W.S. Spec. D.II, as amended by AASHTO.
- Gauge root before welding second side.

T	Min. No. Passes
1/2"	3
3/4"	4
1"	5

PILE SPLICE



CONCRETE JOINTS



NOTES:

- Where called for, cover horizontal and vertical construction, contraction, or expansion joints with two (2) 9" wide layers of heavy roofing felt. Coat the concrete and back of each layer as applied with plastic roofing cement.
- Recess the covered area 1/4" unless otherwise indicated on Design Drawings.

NOTE: If there is a conflict between this Standard Detail and the Design Drawings, the requirements of the Design Drawings shall be followed.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
STANDARD DETAILS (BD 127-81)	
MISCELLANEOUS DETAILS	
TEMP. CONC. BARRIER - TYPE 1	
POINTED REINF. PILE TIP	
PILE SPLICE - CONC. JOINTS	
CONCRETE JOINT COVER	
Δ Revid Pile Tip Note 1	1-86
Δ ADDED NOTE	1-85
Δ Added 13 HP's	7-83
REVISIONS	Date