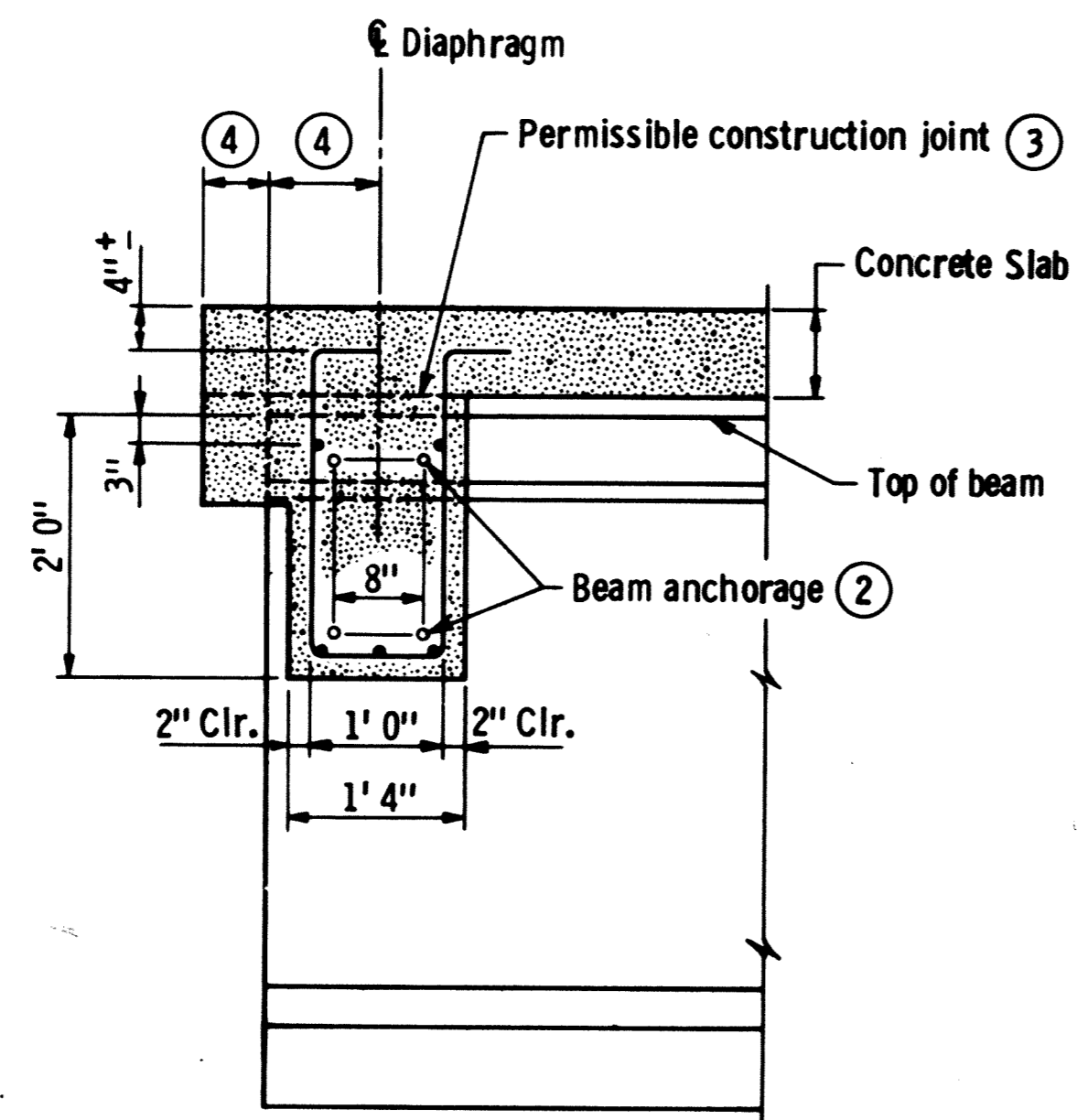


PART TRANSVERSE SECTION AT END DIAPHRAGM

LONGITUDINAL REINFORCEMENT IN BOTTOM OF DIAPHRAGM

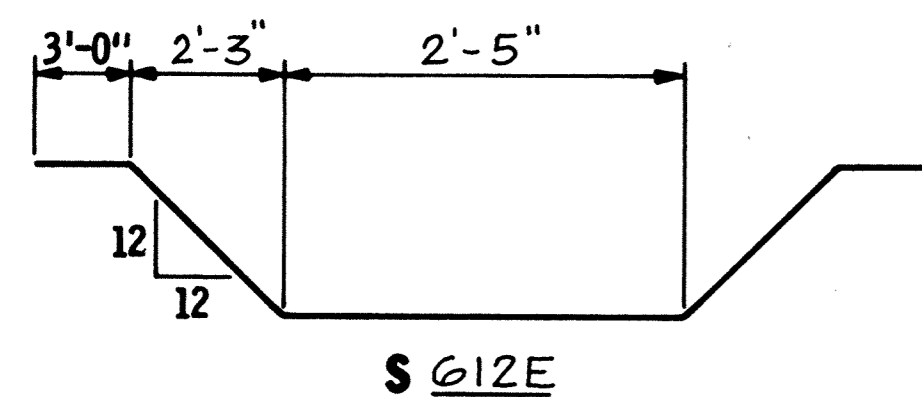
BEAM SPACING centerline to centerline (1)	BARS REQUIRED	
	STRAIGHT NO. SIZE	BENT NO. SIZE
Up to 8'	2 6	1 5
Over 8' to 11'	2 7	1 6
Over 11' to 13'	2 8	1 8
Over 13' to 15'	2 9	1 10
Over 15' to 18'	2 11	1 11



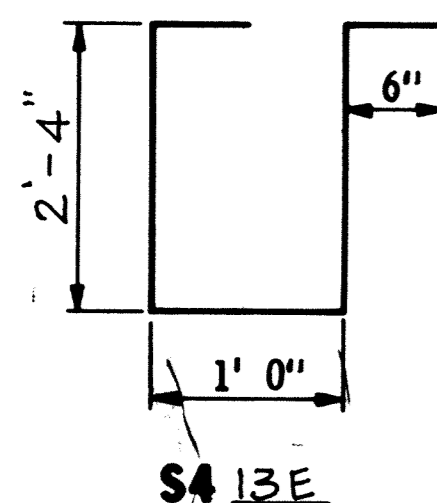
SECTION A-A

NOTE:

- (1) Distance measured along centerline of diaphragm.
- (2) BEAM ANCHORAGES
Fascia beams only: four 3/4" dia. threaded rods.
Interior beams: Two 3/4" dia. threaded rods on top
two No. 7 bars on bottom.
- (3) When a construction joint is used at this location, diaphragm falsework shall remain in place until the diaphragm concrete has obtained the required strength.
- (4) See plans for dimensions.
- (5) All diaphragm bars shown are listed with the superstructure reinforcement. Diaphragm concrete and reinforcement quantities are included in superstructure quantities (except threaded rods are included in payment for prestressed beams).

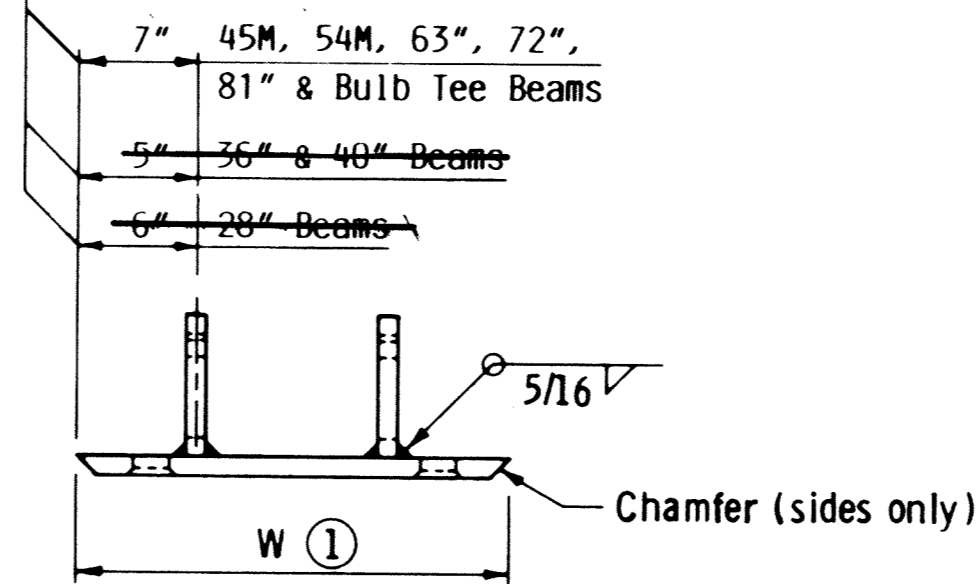


S 6 12E

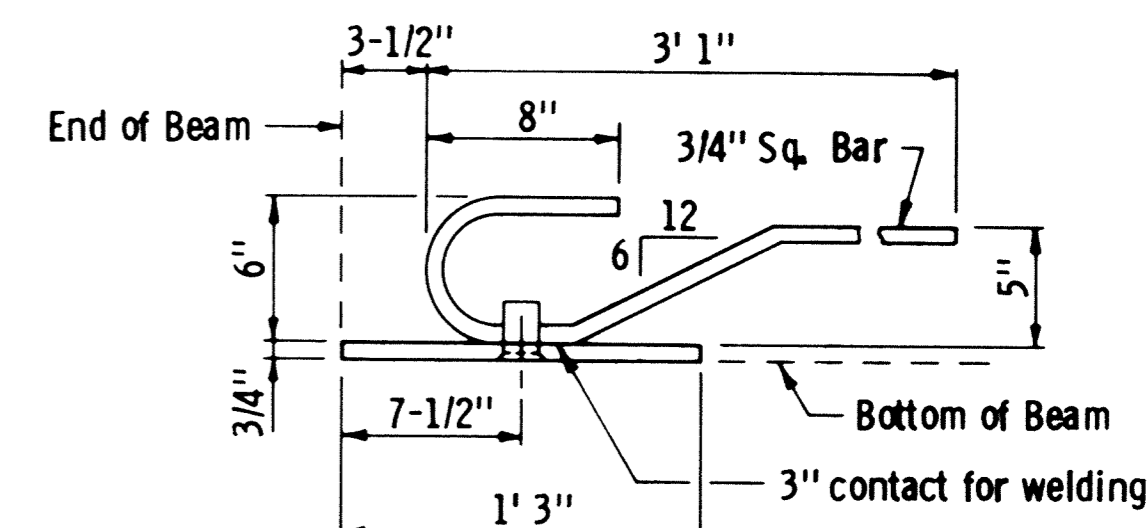


S4 13E

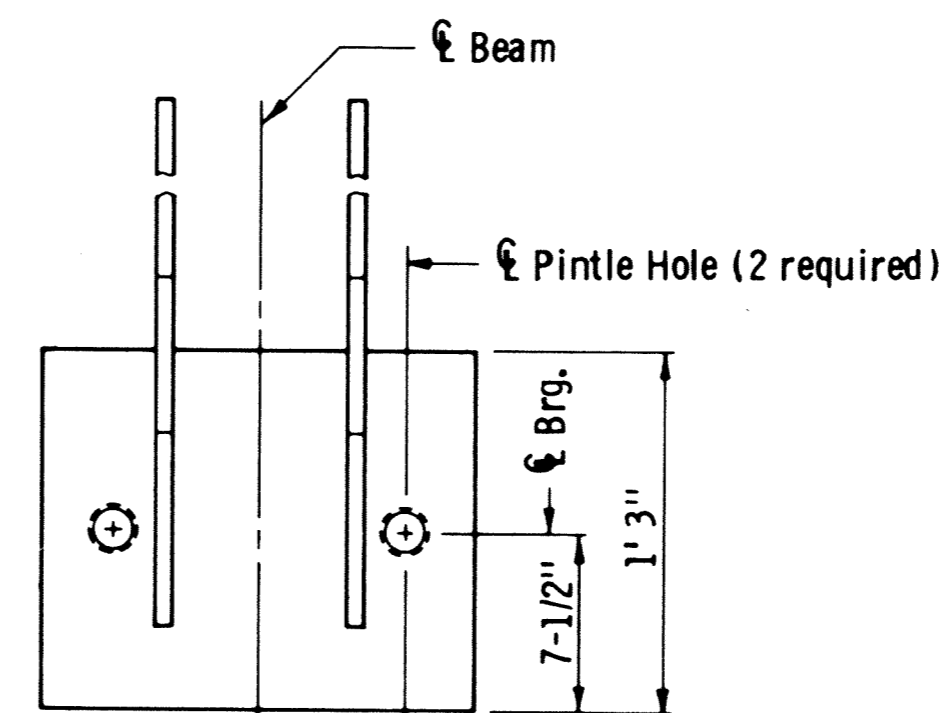
These dimensions may be modified to clear prestressed strands. However, changes must be approved by the Engineer.



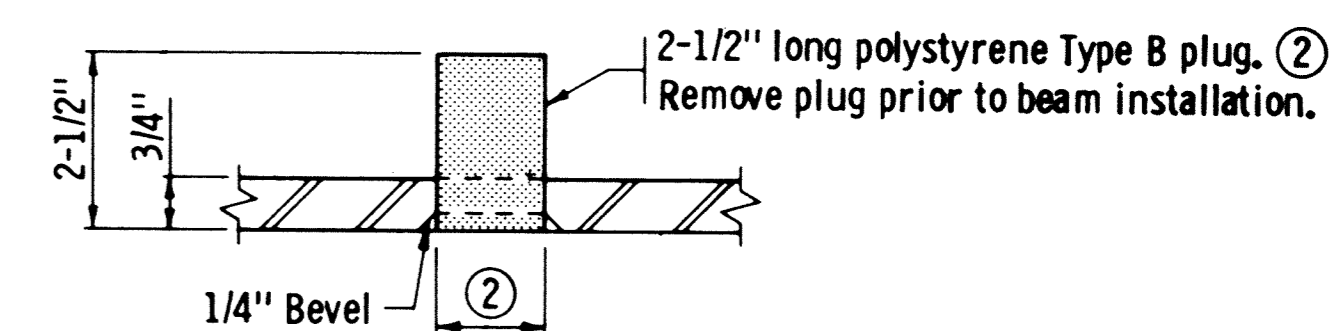
FRONT VIEW



SIDE VIEW



TOP VIEW



PINTLE HOLE DETAIL

- 4" 28" Beams
- 6" 36" Beams
- 8" 40", 45M, 54M, 63", 72" & 81" Beams
- 9" Bulb Tee

NOTES:

Material to be structural steel per Spec. 3306
Sole plate for Bearing Assembly to be hot dipped galvanized per Spec. 3394 after fabrication.
Pintle holes shall be free of zinc build up from galvanizing.
Payment for sole plates to be included in price bid for Prestressed Concrete Beams.

- (1) Dimension "W" to be the width at the bottom flange of the beam minus 1/4".
- (2) 1-1/2" dia. for 1-1/4" dia. pintles.
1-3/4" dia. for 1-1/2" dia. pintles.
Check bearing assemblies for pintle size used.

RECORD PLAN OCT. 1993

APPROVED: July 26, 1977
Developed by: ENGINEERING STANDARDS AND BRIDGES AND STRUCTURES
Issued by: ENGINEERING STANDARDS

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
CONCRETE END DIAPHRAGM
63" - 81" PRESTRESSED CONCRETE BEAMS
(PARAPET ABUTS.)

REVISIONS
Aug. 23, 1978
Sept. 22, 1982

DETAIL NO.
B812

APPROVED: March 12, 1987
Developed by: ENGINEERING STANDARDS AND BRIDGES & STRUCTURES
Issued by: ENGINEERING STANDARDS

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
SOLE PLATE
PRESTRESSED CONCRETE BEAMS
(FOR BEARINGS WITH PINTLES)

REVISION
DETAIL NO.
B303

S.P. 204-113-03

DETAILS

DES: MnDOT
CHK: RLD
DR: MnDOT/GLA
CHK: RLD
APPROVED: 7-2-92
Bridge No. 71517
Sheet No. 20 of 24 Sheets

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER
MAINS 91
20