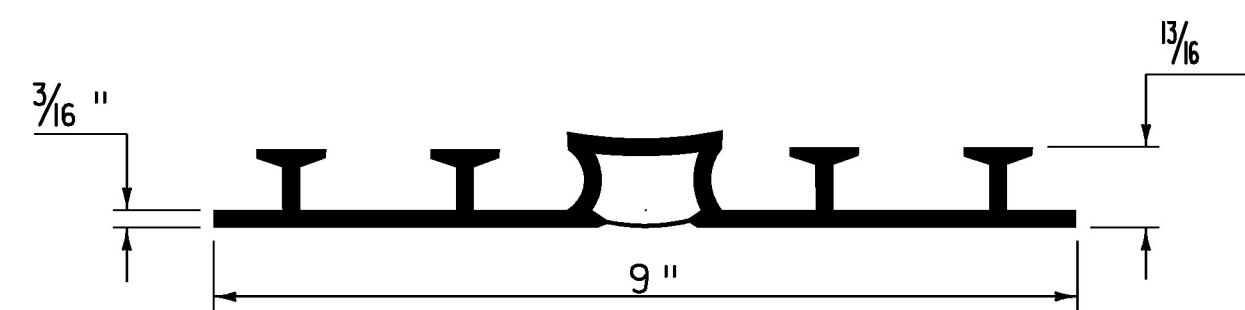


**BRIDGE PLAQUE**  
(NOT TO SCALE)

THE BRIDGE PLAQUE WILL BE SUPPLIED BY THE AGENCY OF TRANSPORTATION AND SHALL BE INSTALLED BY THE CONTRACTOR AT ABUTMENT #1 ON THE RIGHT SIDE AS SHOWN OR AS DIRECTED BY THE ENGINEER.

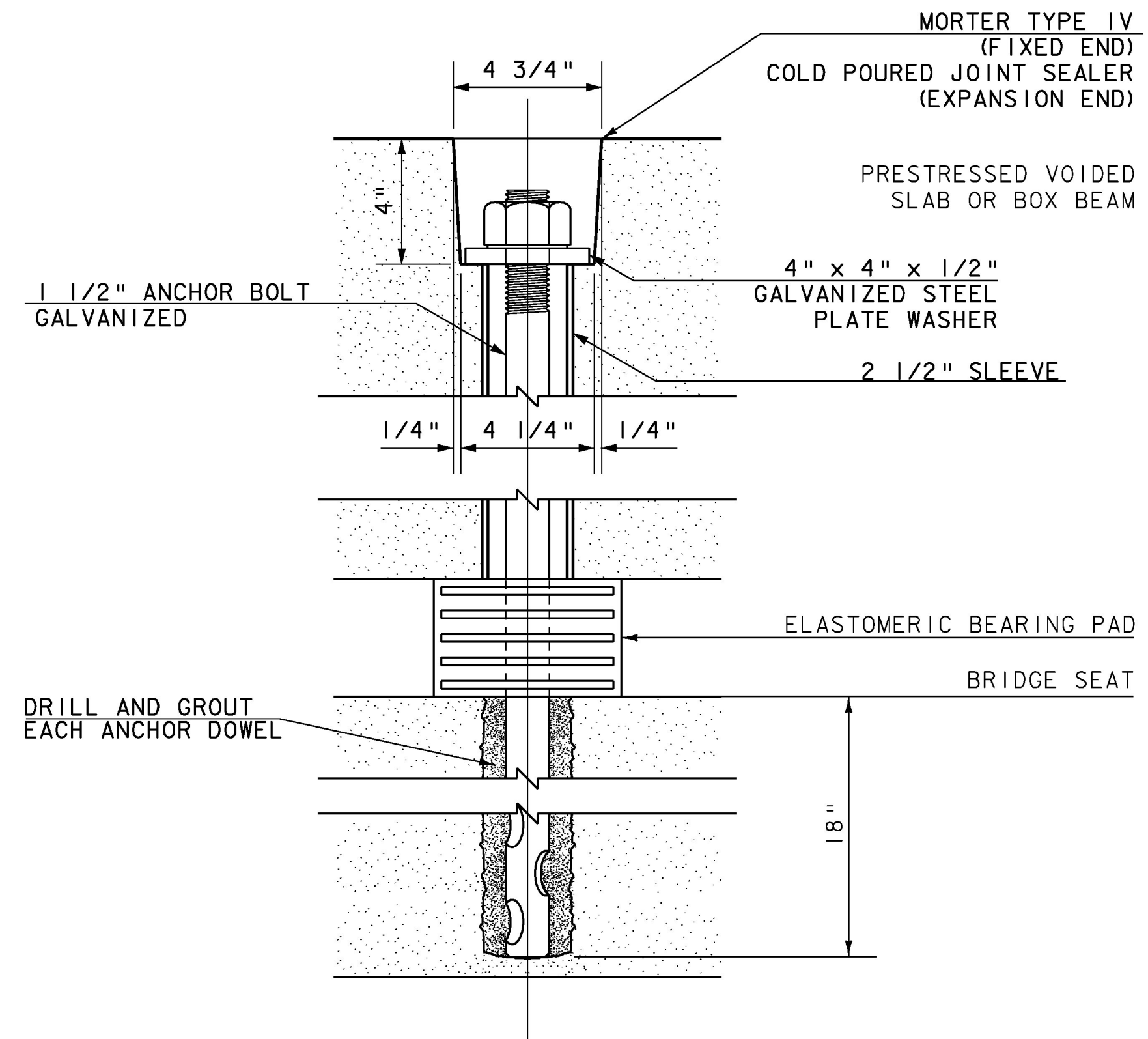
PAYMENT FOR INSTALLATION OF THE BRIDGE PLAQUE SHALL BE INCIDENTAL TO THE ADJACENT CONCRETE.



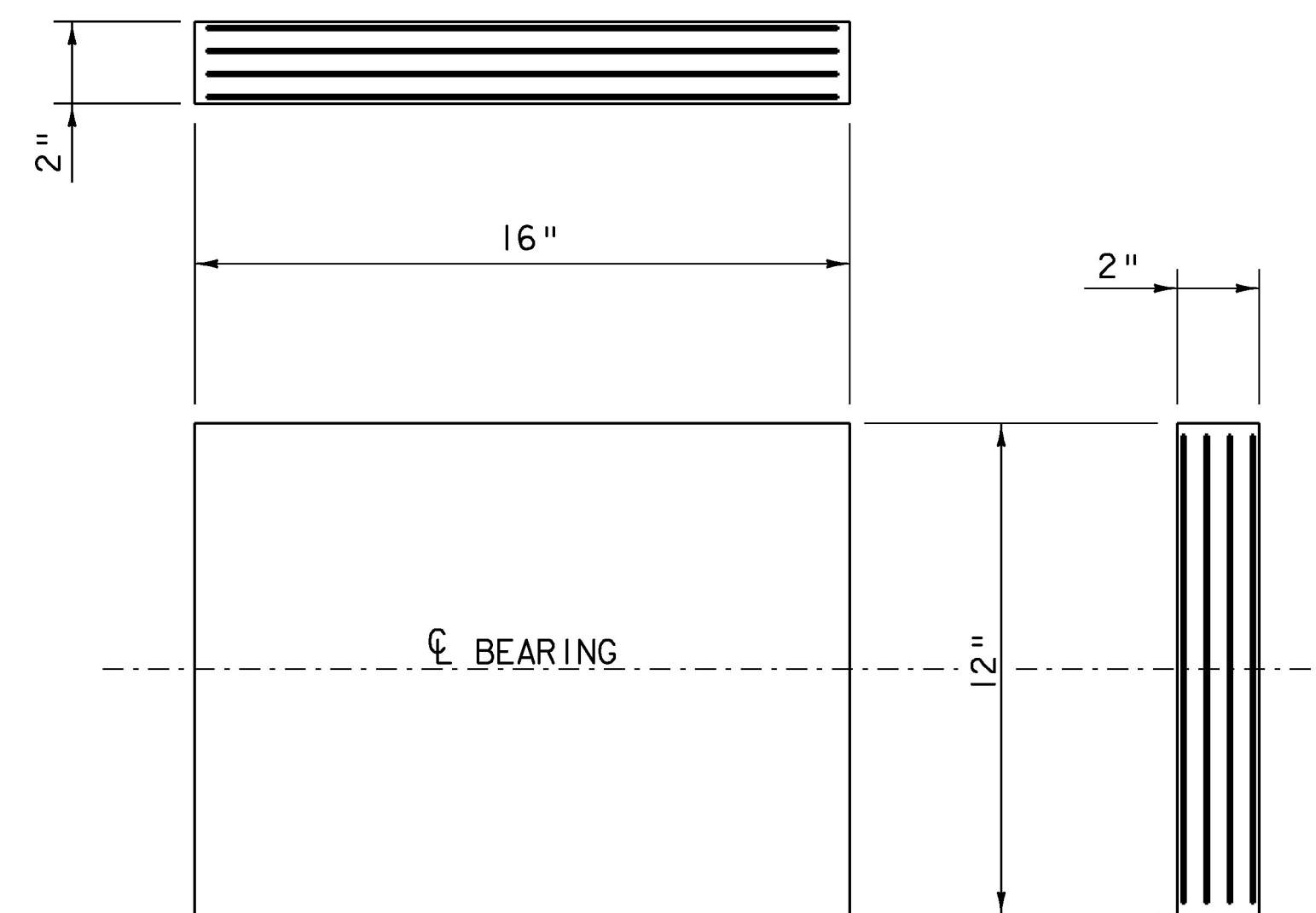
**P.V.C. WATERSTOP FOR EXPANSION JOINTS**  
(NOT TO SCALE)

PAYMENT FOR THE P.V.C. WATERSTOP SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR THE ADJACENT CONCRETE.

OTHER CONFIGURATIONS OF WATERSTOP MAY BE USED UPON APPROVAL OF THE ENGINEER.



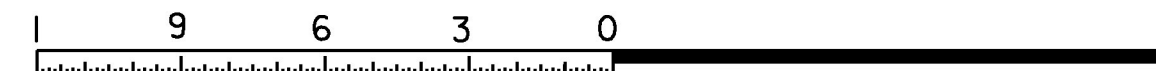
**ANCHOR BOLT DETAIL**  
(NOT TO SCALE)



**ELASTOMERIC BEARING DETAIL**

- 2 - 1/8" EXTERIOR LAYERS OF ELASTOMER
- 3 - 1/2" INTERIOR LAYERS OF ELASTOMER
- 4 - 1/16" STEEL REINFORCING PLATES

SCALE 3" = 1'-0"



**Bearing Notes**

1. Bearings shall conform to the applicable subsections of Standard Specifications sections 531 and 731.
2. The bearings, including anchor bolts, drilling and grouting, washers and nuts shall be paid for under the item 531.11 "Bearing Device Assembly, Elastomeric Pad."
3. All washers shall be 1/2" plate (minimum).
4. All plates, nuts, washers and anchor bolts, unless noted otherwise, shall be galvanized or metalized as per subsections 531.04 (b) and 506.15 of the Standard Specifications. If the bearings are metalized, they shall be sealed with an approved sealer as specified in subsection 506.15 (b) of the standard specifications. Areas of galvanizing or metalizing damaged by field welding or handling shall be repaired in conformance with standard specification 513.
5. All steel in the bearing devices shall be AASHTO M270M/M270 Grade 50, unless noted otherwise.
6. Anchor bolts shall be ASTM A-449, type I with a yield strength of 58 ksi and have a minimum embedment of 18" into the concrete and shall conform to subsection 714.08.
7. All reinforcement between layers of elastomer shall be steel AASHTO M270M/M270 Grade 36. All internal steel plates shall be sand blasted and free of coatings, rust and mill scale. The plates shall be free of sharp edges and burrs.
8. Steel reinforced elastomeric bearings shall have a minimum 1/8" edge seal of elastomer integral with bearing over all internal plates.
9. The elastomer was designed with a shear modulus of 100 psi +/- 15%.
10. The elastomer shall meet the requirements of Low Temperature Zone D, Grade 4.
11. The concrete under the bearing device shall be level.
12. All designs done for the bearings shall be per the AASHTO LRFD Bridge Design Specifications 4th edition and its latest revisions.
13. Alternate configurations for bearings may be submitted for approval. Any alternate submitted shall be designed and certified to meet the design loads and criteria shown on the plans.
14. Bridge seat elevations may be revised to accommodate an alternative configuration.

Design Load (kip)	Service Limit State	Vertical	Max	74.4
			Min	28.4
Design Load (kip)	Strength Limit State	Permanent	30.6	
		Transverse	6.7	
		Longitudinal	2.5	
Design Load (kip)	Strength Limit State	Vertical	113.1	
		Transverse	22.9	
		Longitudinal	16.5	
Translation (in)	Service Limit State	Irreversible	Transverse	0
			Longitudinal	1/16
		Reversible	Transverse	1/8
			Longitudinal	1/2
Rotation (rad)	Service Limit State	Irreversible	Transverse	0.000
			Longitudinal	0.018
			Reversible	Transverse
		Longitudinal	0.009	

PROJECT NAME: BRAINTREE  
PROJECT NUMBER: BRO 1444(36)

FILE NAME: s95J292sup.dgn PLOT DATE: 31-DEC-2009  
PROJECT LEADER: K. HIGGINS DRAWN BY: T. FILLBACH  
DESIGNED BY: T. FILLBACH CHECKED BY: J. LACROIX  
BEARING DETAILS SHEET 18 OF 26