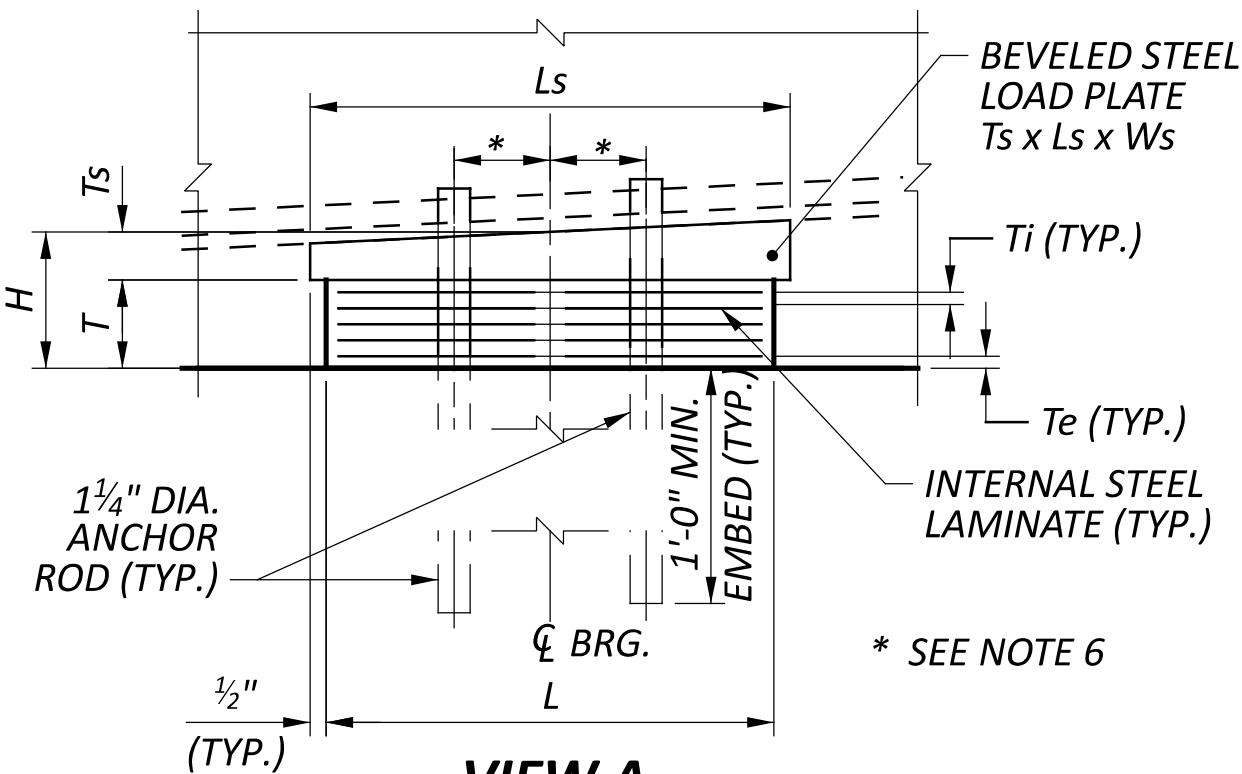
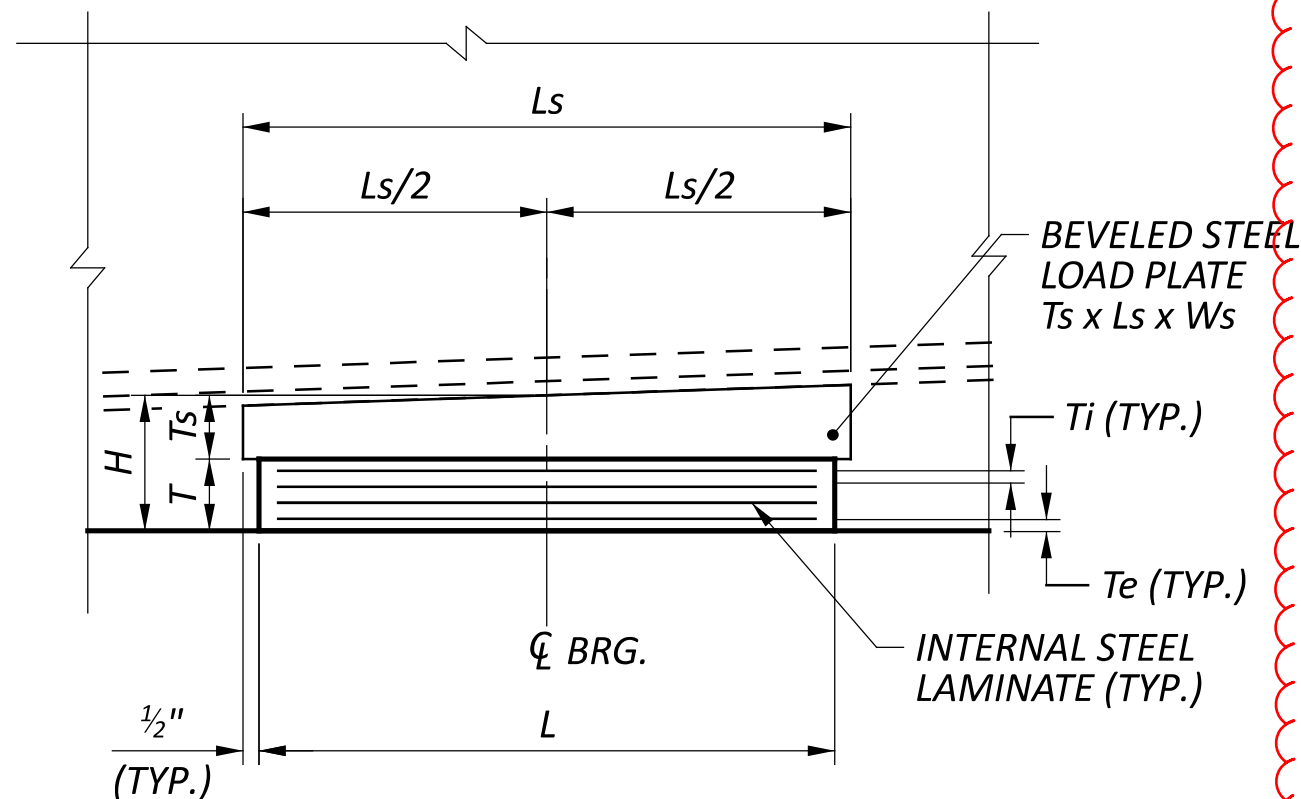
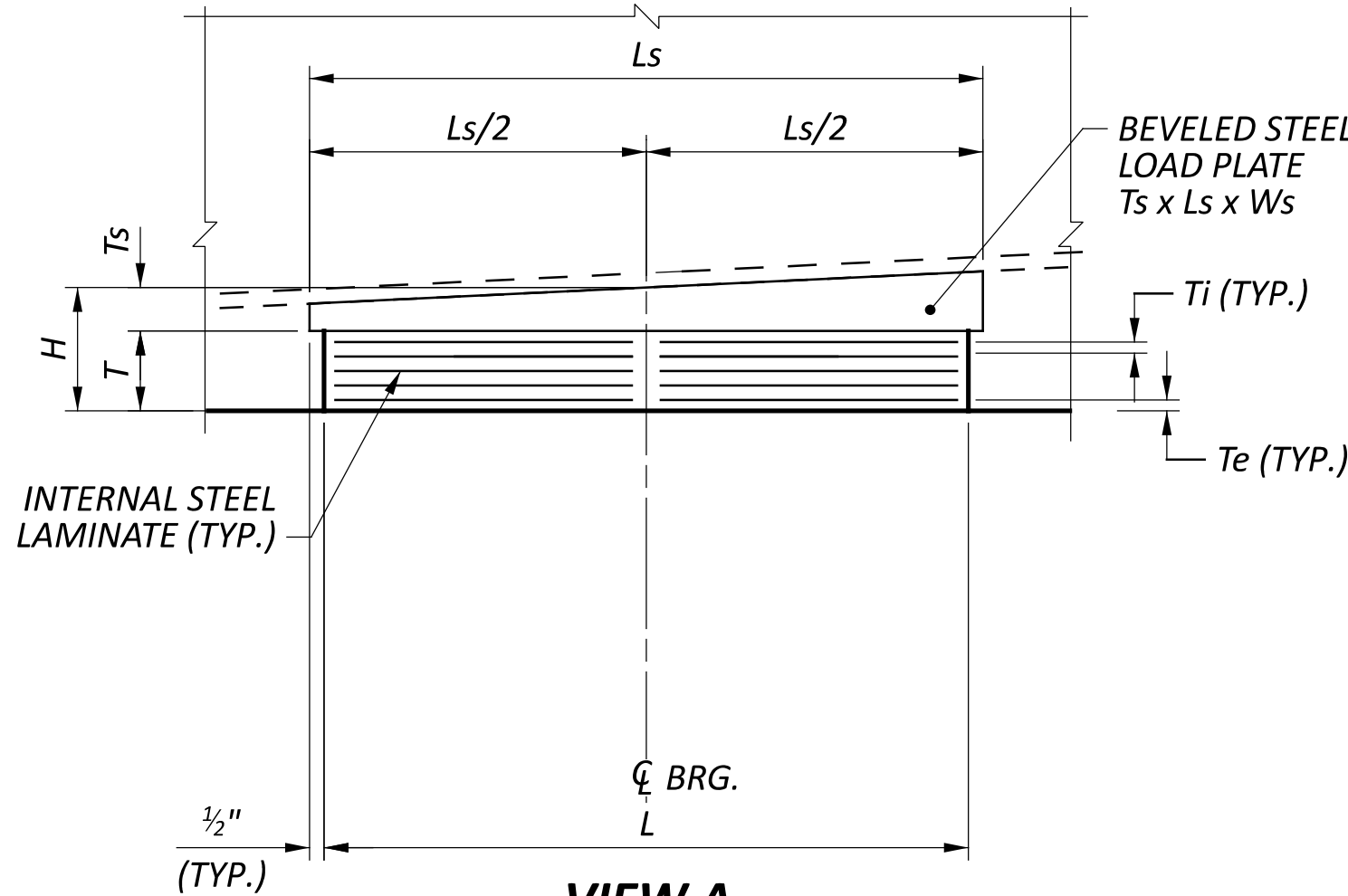


BEVELED STEEL  
LOAD PLATE DETAIL

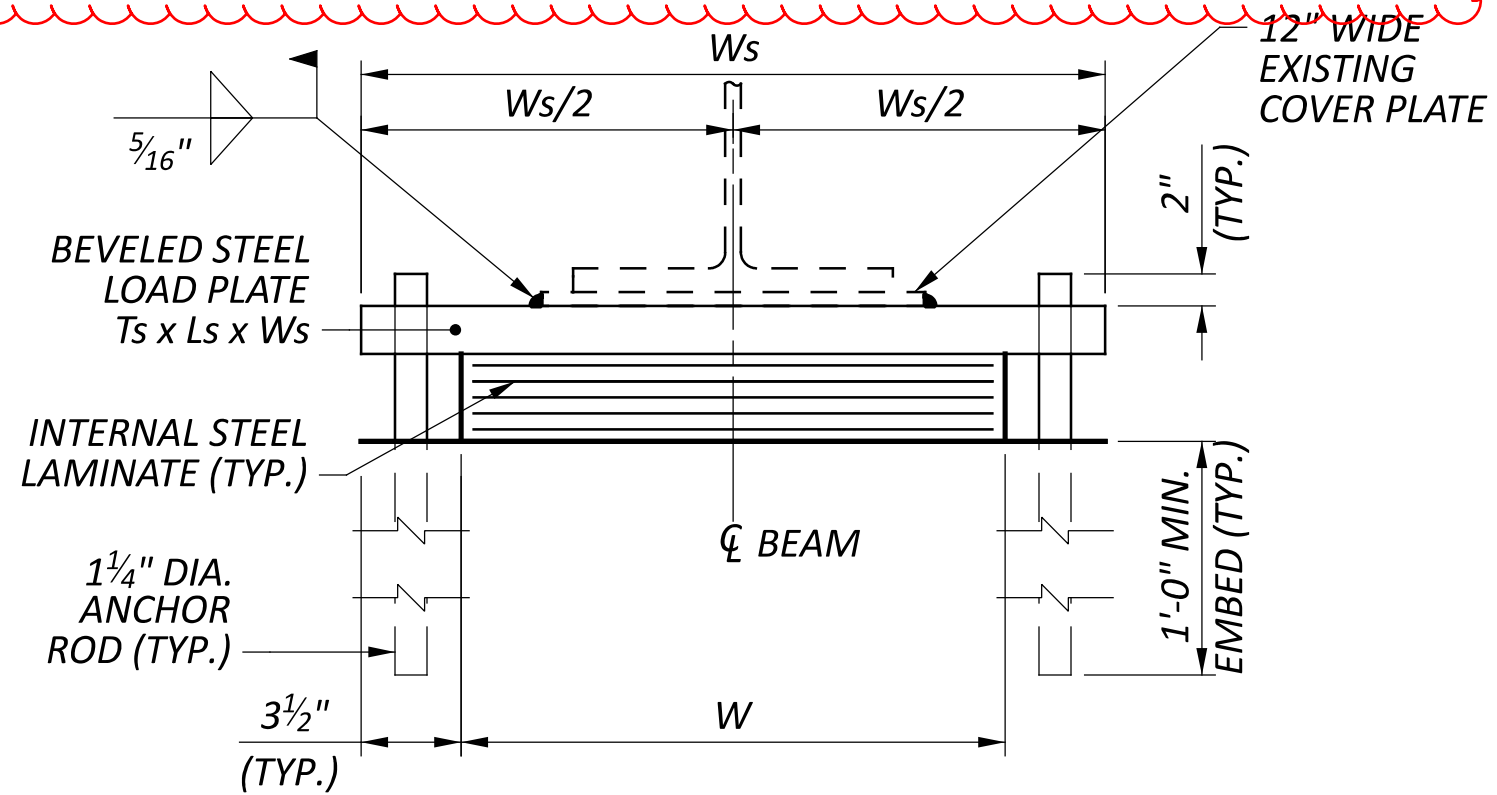
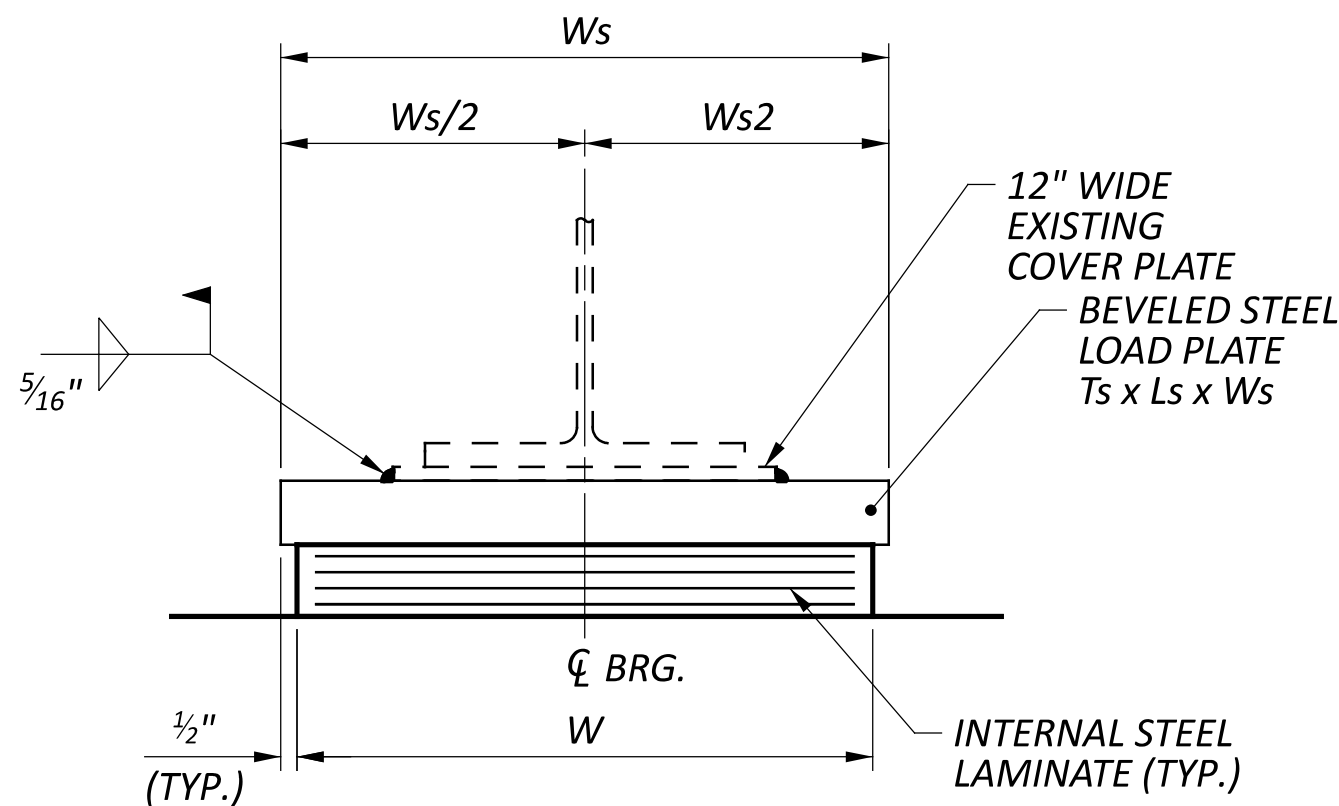
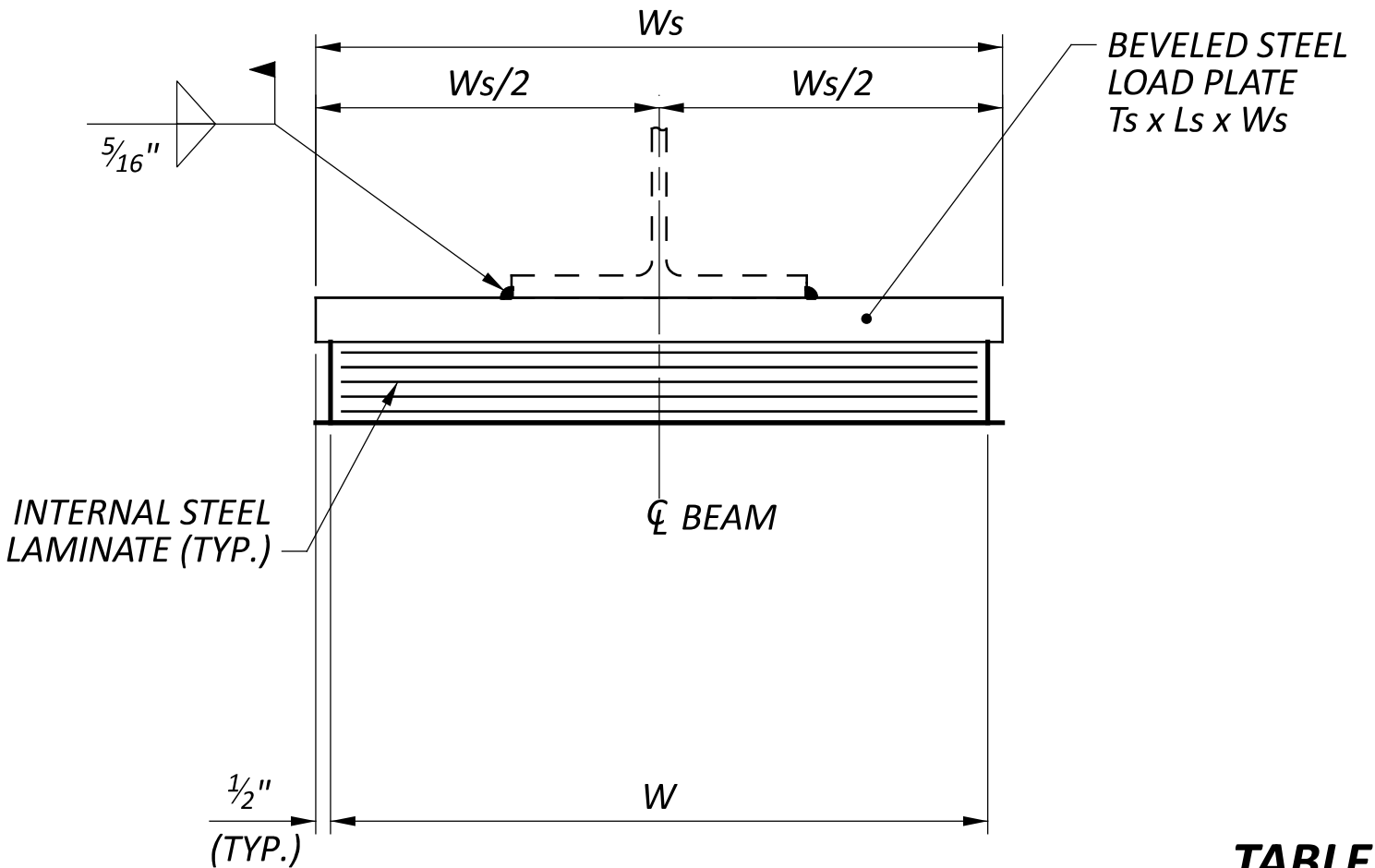
LEGEND

BEVEL \* = 3.13% AT RA  
1.20% AT FA  
1.88% AT PIER 1  
1.20% AT PIER 2  
1.20% AT PIER 3



VIEW A  
(PIERS 1 & 3)

VIEW A  
(PIER 2)



VIEW B  
(PIERS 1 & 3)

VIEW B  
(PIER 2)

TABLE DEFINITIONS

ti = THICKNESS OF INTERNAL LAYER  
te = THICKNESS OF EXTERNAL LAYER  
T = TOTAL THICKNESS OF ELASTOMERIC BEARING  
N = NUMBER OF STEEL LAMINATES  
Ts = NOMINAL STEEL LOAD PLATE THICKNESS

LAMINATED ELASTOMERIC BEARING DETAILS													
SUBSTRUCTURE UNIT	TYPE	BEARING DIMENSIONS						STEEL LOAD PLATE			SERVICE REACTIONS (KIP)		
		L	W	Te	Ti	N	T	H	Ts	Ls	Ws	DL	LL (MAX.) DESIGN
RA & FA	EXP.	1'-3"	1'-3"	0.35"	0.5"	5	3.25"	4.75"	1 1/2"	1'-4"	1'-4"	30.92	51.18 82.10
PIERS 1 & 3	EXP.	1'-3"	1'-3"	0.35"	0.5"	5	3.25"	5.375"	2 3/8"	1'-4"	1'-4"	104.10	94.31 198.41
PIER 2	FIX.	1'-3"	1'-3"	0.35"	0.5"	5	3.25"	5.375"	2 3/8"	1'-4"	1'-10"	100.10	94.80 194.90

NOTES

- INTERNAL STEEL LAMINATE THICKNESS = 0.1046 INCH (12 GAGE). ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG-TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
- THE STEEL LOAD PLATE SHALL BE ASTM A709 GRADE 50 STRUCTURAL STEEL. THE STEEL LOAD PLATES SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE AND A DIRECTION ARROW THAT POINTS UPSTATION. ALL MARKS SHALL BE PERMANENT AND SHALL BE VISIBLE AFTER THE BEARING IS INSTALLED.
- CONTRACTOR TO VERIFY DIMENSIONS AS PER 501.
- BASIS OF PAYMENT: THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR, AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS, INCLUDING LOAD PLATES AND MISCELLANEOUS HARDWARE. PAYMENT WILL BE AT THE UNIT PRICE BID FOR ITEM 516, EACH, ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND STEEL LOAD PLATE.
- PIER 2 ONLY: ITEM 516 SHALL ALSO INCLUDE DRILLING OF DOWEL HOLES AND INSTALLATION OF ANCHOR RODS. CONTRACTOR TO LOCATE ANY EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION OF THE PROPOSED DOWEL HOLE, THE CONTRACTOR SHALL EXERCISE CAUTION AND ADJUST THE BEARING ASSEMBLY SLIGHTLY TO AVOID THE EXISTING BAR.

ANCHOR ROD LOCATION CAN BE MOVED 3" MAX. FROM THE CENTERLINE TO AVOID INTERFERENCE WITH THE INTERMEDIATE CROSS FRAME.