

BEARING NOTES:

1. SHOP DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED AND INCLUDE ANY NECESSARY WELDING OR BONDING PROCEDURES. THE SHOP DRAWINGS SUBMITTAL SHALL ALSO INCLUDE ALL APPLICABLE CERTIFICATIONS FOR ELASTOMERIC MATERIAL.
2. ALL STEEL PLATES IN BEARING DEVICES EXCEPT AS NOTED SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 36. 1/8" STEEL LAMINATE REINFORCING PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A1011 GRADE 36 OR HIGHER.
3. 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.
4. ANCHOR BOLTS AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 164 (ASTM A325 AND A449) AND SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M 232. ALL WASHERS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 345, AND SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M111.
5. ALL STEEL COMPONENTS SHALL BE GALVANIZED AS PER SECTION 531.04 (b) AND 506.15. ALL WASHERS SHALL SHALL BE 3/8" PLATE MINIMUM. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER AASHTO M 232/M 232M.
6. PROVIDE HOT-DIP GALVANIZED, FLAT COUNTERSUNK HEAD CAP SCREWS IN ACCORDANCE WITH ASTM F 835. HOT-DIP GALVANIZED SHALL BE IN CONFORMANCE WITH AASHTO M 232 (ASTM A153). PROVIDE STEEL HOT-DIP GALVANIZED CAPS WITH 1/2" MIN. TO 1 1/2" MAX. HEIGHT AND NOMINAL 1" INSIDE DIAMETER.
7. STEEL REINFORCED ELASTOMERIC BEARINGS SHALL HAVE A MINIMUM OF 1/8" EDGE SEAL AND 1/4" TOP AND BOTTOM COVER OF ELASTOMER INTEGRAL WITH THE BEARING OVER ALL INTERNAL PLATES.
8. FOR ELASTOMERIC BEARINGS, ALL MATERIALS AND FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 14 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND SECTION 18 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS. ALL FABRICATION SHALL MEET THE REQUIREMENTS OF AASHTO M251 EXCEPT THAT THE ACCEPTANCE SAMPLING AND TESTING REQUIREMENTS OF PARTS 8 AND 9 ARE WAIVED. THE RAW ELASTOMER SHALL BE VIRGIN NEOPRENE OR NATURAL RUBBER CLASSIFIED AS LOW TEMPERATURE GRADE 4 AS DEFINED IN SECTION 18 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS. THE ELASTOMER SHALL HAVE A NOMINAL HARDNESS OF 55 (+/- 5) DUROMETER ON SHORE 'A' SCALE AND A SHEAR MODULUS BETWEEN 80 AND 175 PSI. NO FABRIC REINFORCEMENT WILL BE ALLOWED IN ELASTOMERIC PADS.
9. ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. THE ALTERNATE SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN AND SHALL BE DESIGNED PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 5TH EDITION.
10. BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATIVE CONFIGURATION.
11. PREFORMED FABRIC BEARING PADS SHALL BE MANUFACTURED FROM ALL NEW MATERIALS COMPRISED OF HIGH QUALITY ELASTOMER WITH A RANDOM DISTRIBUTION OF SYNTHETIC FIBERS IN PROPER PROPORTION TO MAINTAIN STRENGTH AND STABILITY. THE FINISHED PRODUCT SHALL WITHSTAND A COMPRESSIVE LOAD PERPENDICULAR TO THE PLANE OF LAMINATIONS OF 48.2 MPa (7000 psi). THE SURFACE HARDNESS SHALL HAVE A SHORE A DUROMETER OF 80 +/- 10 IN ACCORDANCE WITH ASTM D 2240.
12. THE STEEL LOAD PLATES AND MASONRY PLATES SHALL BE HOT BONDED TO THE REINFORCED ELASTOMERIC PAD DURING THE VULCANIZATION PROCESS. THE STEEL SURFACES TO BE BONDED TO THE PAD SHALL NOT BE GALVANIZED.
13. THE BEARING TOLERANCES SHALL MEET THOSE GIVEN IN SECTION 18 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS.

BEARING PAD AND LOAD PLATE DATA									
SOUTHBOUND BRIDGE					NORTHBOUND BRIDGE				
LOCATION	T ₁	T ₂	A	B	LOCATION	T ₁	T ₂	A	B
PIER 1, BACK	1/2"	5/8"	3 1/2"	3 5/8"	PIER 4, BACK	1/2"	5/8"	3 1/2"	3 5/8"
PIER 1, AHEAD	1/2"	3/4"	3 1/2"	3 3/4"	PIER 4, AHEAD	1/2"	3/4"	3 1/2"	3 3/4"
PIER 2, BACK	1/2"	5/8"	2 7/8"	3"	PIER 5, BACK	1/2"	5/8"	2 7/8"	3"
PIER 2, AHEAD	1/2"	3/4"	2 7/8"	3 1/8"	PIER 5, AHEAD	1/2"	3/4"	2 7/8"	3 1/8"
PIER 3, BACK	1/2"	5/8"	3 1/2"	3 5/8"	PIER 6, BACK	1/2"	5/8"	3 1/2"	3 5/8"
PIER 3, AHEAD	1/2"	3/4"	3 1/2"	3 3/4"	PIER 6, AHEAD	1/2"	3/4"	3 1/2"	3 3/4"

