

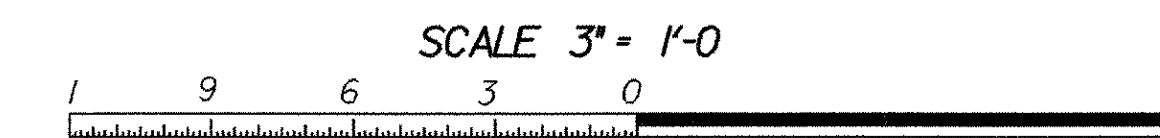
**BEARING NOTES**

1. Bearings shall be paid for under the item 531.11 "Bearing Device Assembly, Elastomeric Pad" and shall conform to applicable subsections of Standard Specifications Section 531 and 731.
2. All Bearing Devices 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.
3. Payment for anchor bolts, nuts, and washers shall be included in the unit bid price for Item 531.11 "Bearing Device Assembly, Elastomeric Pad." Anchor bolts, nuts and washers shall be galvanized per AASHTO M232/M232M.
4. All steel in bearing devices shall be AASHTO M270/M270M Grade 50.
5. All reinforcement between layers of elastomeric shall be steel AASHTO M270/M270M 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.
6. Steel reinforced elastomeric bearings shall have a minimum of 1/8" edge seal of elastomer integral with bearing over all internal plates.
7. 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 this sheet. The alternate shall maintain the anchorage system shown and shall be designed per AASHTO Standard Specifications for Highway Bridges 2002 Edition and its latest revisions.
8. Bridge seat elevations may be revised to accommodate an alternative configuration.
9. Design Criteria:  
 Rotation = 0.013 Radius  
 RDL = 95 K  
 RLL = 74 K  
 Translation = s = 1"  
 Temperature Range = -30°F to 120° F  
 Bearings are designed as per AASHTO Standard Specifications for Highway Bridges, Edition 2002 and its latest revisions, Section 14, Method B. Elastomer shall have a nominal hardness of 60 on shore 'A' scale. Elastomer shall have a Shear Modulus between 0.130 ksi and 0.200. The Raw Elastomer shall be classified as Low Temperature Grade 4 as defined in Table 18.4.5.1 - 1a of AASHTO, Division II, Section 18. No fabric reinforcement will be allowed in elastomeric pads.
10. The steel sole 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 metalized.
11. The concrete surface under the Bearing Device shall be level.
12. All required fabrication of bearings will occur before vulcanization process.

**PLAN**  
SCALE 3" = 1'-0"

**SIDE ELEVATION**  
SCALE 3" = 1'-0"

**FRONT VIEW**  
SCALE 3" = 1'-0"



4 LAYERS OF 3/16" THICK ELASTOMER  
 5 STEEL SHIMS 1/8" THICK  
 2 COVER LAYERS 5/16" THICK

**BEARING DEVICE DETAILS**

PROJECT NAME:	BARTON
PROJECT NUMBER:	BRO 1449 (29)
FILE NAME: /str5/01j168/sj168sup.dgn	PLOT DATE: 02-APR-2007
PROJECT LEADER: W. SYMONDS	DRAWN BY: J. GILMORE
DESIGNED BY: J. REED	CHECKED BY: J. REED
sj168bdd.i	SHEET 39 OF 84

