ELASTOMERIC BEARING NOTES

*~ Shear modulus: Spec. allows +/-15% so design should account for this ~*

1. The shear modulus of the elastomer shall be XX psi.

2. Vulcanization of the elastomer to the steel plates shall be done during the

primary mold process. Sole plate shall be vulcanized to the elastomer.

3. Masonry plates, sole plates and shear blocks shall meet the requirements of

ASTM A709, Grade 50 or 50W. Anchor rods shall meet the requirements of ASTM

F1554, Grade 105 and shall be swedged on the embedded portion of the rod.

4. Masonry plates shall be galvanized in accordance with Section 506. Sole

plates for steel superstructures shall be treated in the same manner as the

structural steel. Anchor rods, washers, nuts and shear blocks shall be

galvanized to ASTM A153 or ASTM B695, Class 50, Type 1.

5. 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.

6. Bearings shall be covered during shipping and at any time prior to

installation that the bearings may be exposed to sunlight.

7. The superstructure may be erected when the ambient air temperature is within

the range of 65°F and 90°F. If the ambient air temperature is outside this

range, the bearings shall be reset as directed by the Resident.

*~ The following note is used when bearings are to be welded to steel girders. ~*

8. All necessary precautions shall be taken to protect bearing components from

field weld flash and spatter. Heat from welding operations shall be controlled

such that steel adjacent to the elastomer does not exceed 200 °F. The

temperature shall be verified by the use of temperature indicating crayons or

other suitable means.

9. Upset the threads on the anchor rods after assembly of the bearing.

10. The Contractor shall not weld the girders to the sole plate until after all

adjustments have been made in accordance with Standard Specification Section

523.094.

11. The “Bearing Design Load” for each bearing as noted in Standard

Specifications, subsection 523.23.4, is XX kips. This is the total load for the

Service I load combination, without impact.