

**Notes:**

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The  $1/8"$  PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of  $1/8"$  PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

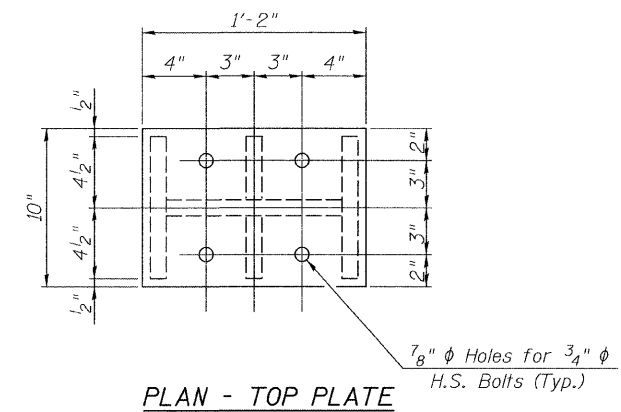
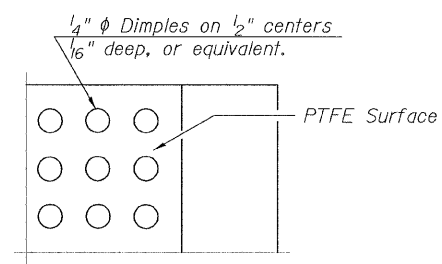
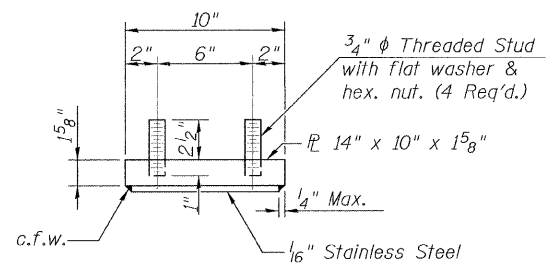
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

The structural steel bearing plates for the expansion bearings shall conform to the requirements of AASHTO M270 Grade 50.

Existing bearings at the north side of pier 2 and north abutment shall be removed and replaced according to the plans. "Jack and Remove Existing Bearings". If web stiffeners are not present directly over the jack location, hardwood timbers shall be installed tightly between top and bottom flanges to prevent rotation. The bearings shall be in place and the jacks lowered before the new concrete deck is poured at the abutment and pier.

**ELEVATION AT N. ABUT. & NORTH SIDE OF PIER 2**

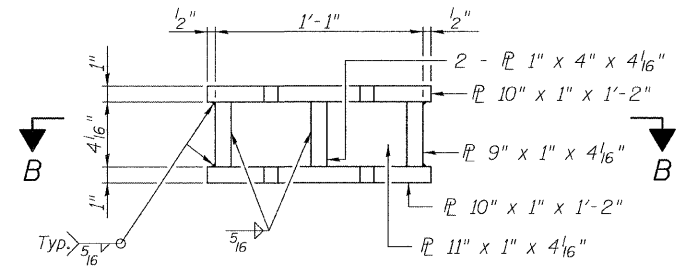
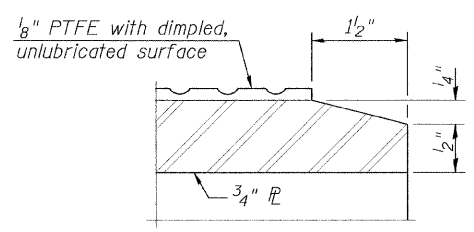
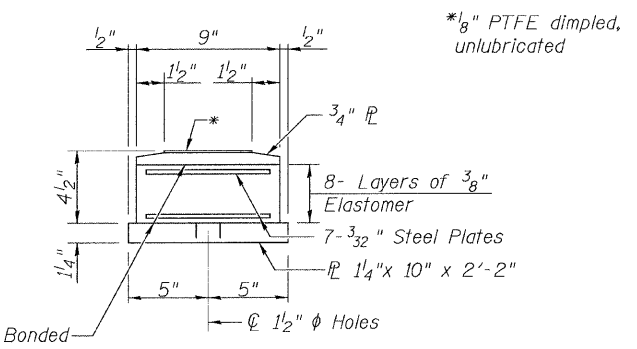
**TYPE II ELASTOMERIC EXP. BRG.**



**TOP BEARING ASSEMBLY**

**PLAN-PTFE SURFACE**

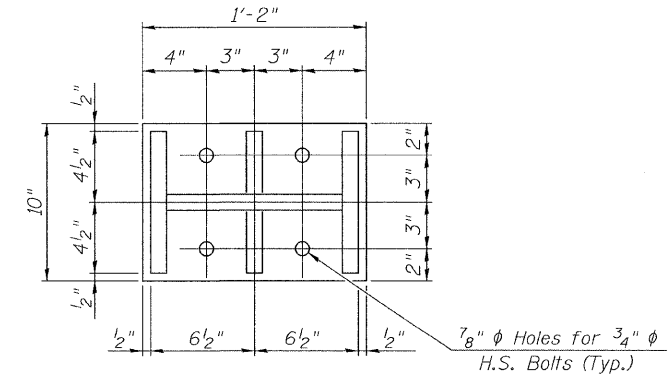
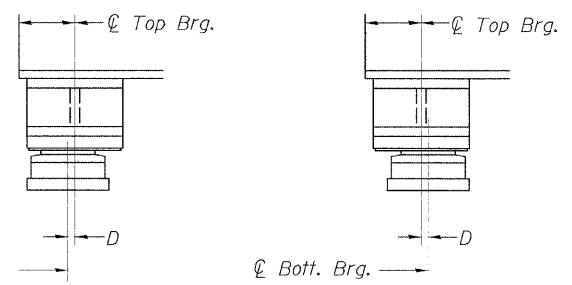
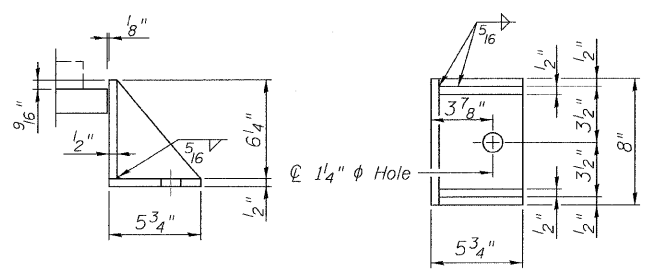
**PLAN - TOP PLATE**



**BOTTOM BEARING ASSEMBLY**

**SECTION THRU PTFE**

**ELEVATION STEEL EXTENSION**



**BELOW 50°F.** (Move bott. brg. away fixed brg.)

**ABOVE 50°F.** (Move bott. brg. toward fixed brg.)

**SETTING ANCHOR BOLTS AT EXP. BRG.**

D =  $1/8"$  per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

INTERIOR BEAM REACTION TABLE		
R (DL)	(K)	27.8
R (LL)	(K)	42.3
R (IMP)	(K)	11.2
R (TOTAL)	(K)	81.3
Minimum Jack Capacity	(Tons)	41

SHIM PLATE THICKNESS 'T'					
Location	BM 1	BM 2	BM 3	BM 4	BM 5
Pier 2	0"	0"	3/8"	1/4"	0"
$\varnothing$ Brg. N. Abut.	1/8"	1/8"	0"	0"	0"

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	10
Anchor Bolts, 1"	Each	20
Furnishing and Erecting Structural Steel	Pound	1385
Jack and Remove Existing Bearings	Each	10

**BEARING DETAILS**  
F.A.S. ROUTE 559 OVER KICKAPOO CREEK  
S.N. 054-3003