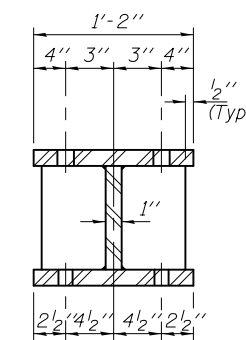
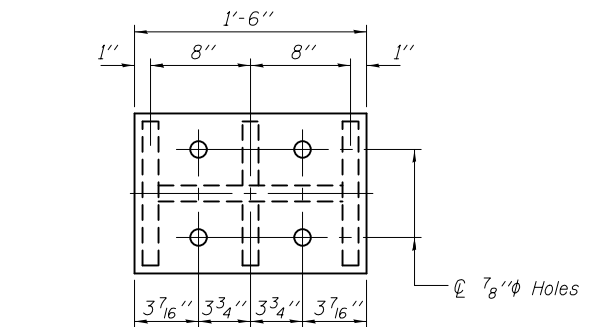


**BEAM REACTIONS**

R <sub>D</sub>	(K)	69.4
R <sub>L</sub>	(K)	45.8
Imp.	(K)	9.1
R (Total)	(K)	124.3

**Notes:**  
 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. Min. jack capacity = 73 Tons.  
 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 through 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 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.



**PLAN TOP AND BOTTOM PLATE**

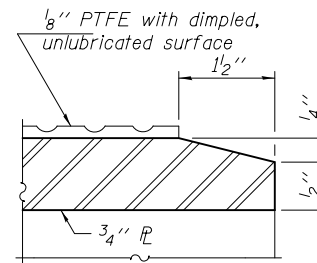
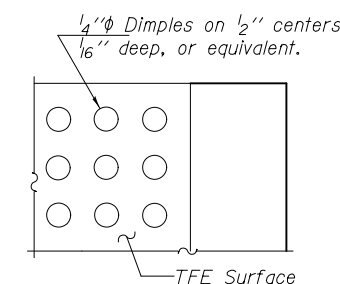
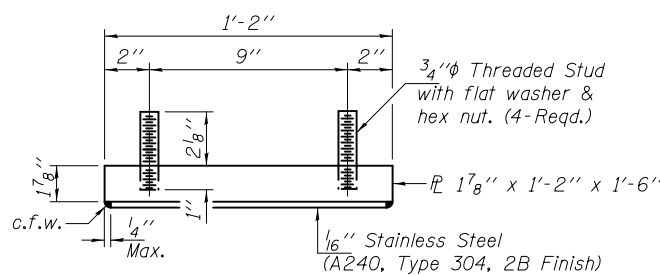
**STEEL EXTENSION DETAIL**

**SECTION B-B**

**ELEVATION**

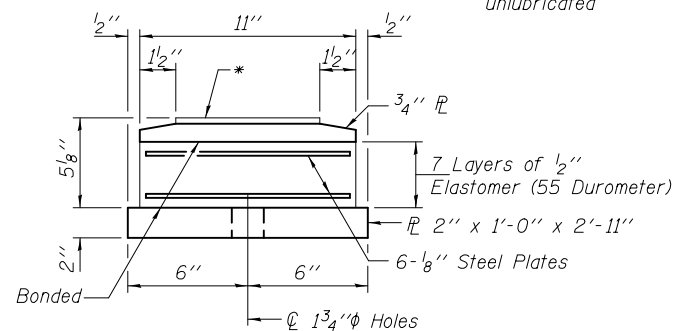
**TYPE II TFE ELASTOMERIC EXP. BRG.**

**SECTION A-A**

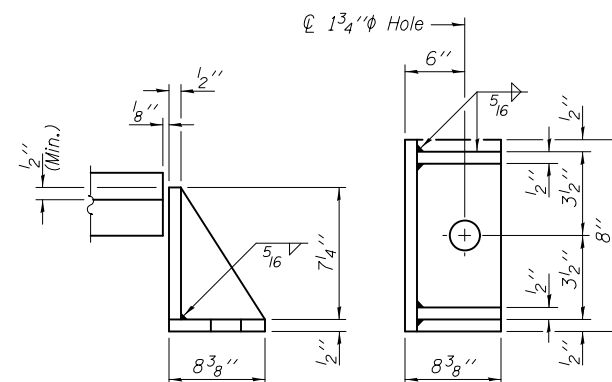


**TOP BEARING ASSEMBLY**  
 (Looking North)

\* 1/8" PTFE dimpled, unlubricated

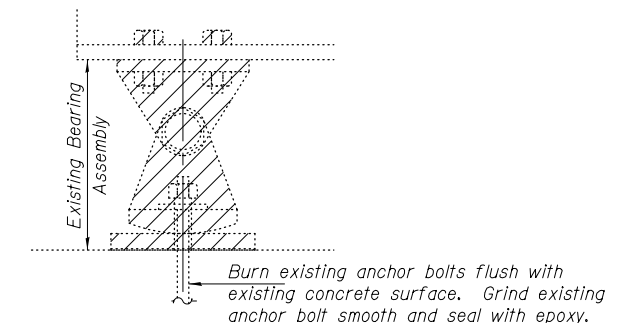


**BOTTOM BEARING ASSEMBLY**



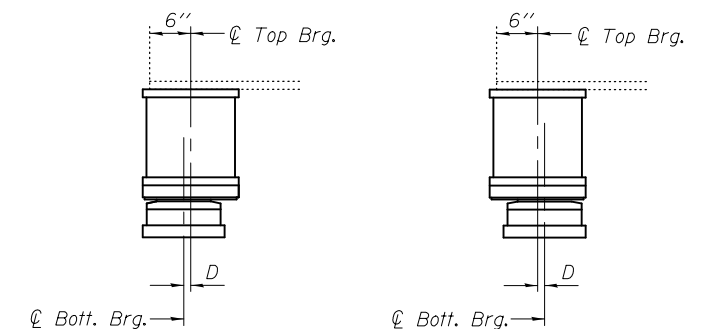
**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**EXISTING BEARING REMOVAL DETAIL**

Cost Included with Jack and Remove Existing Bearings.



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

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	1340
Anchor Bolts 1 1/4" φ	Each	10

TYII/REPS 12-03-2008

DESIGNED DAB  
 CHECKED VHV  
 DRAWN baliva  
 CHECKED DAB VHV

EXAMINED  
 PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 22, 2014

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT DETAILS  
 SPAN 19, PIER 18  
 SN 096-0010

SHEET NO. 19 OF 35 SHEETS

F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 823 D7 BRIDGE REPAIRS 2014-3 WAYNE 60 40  
 CONTRACT NO. 74618  
 ILLINOIS FED. AID PROJECT