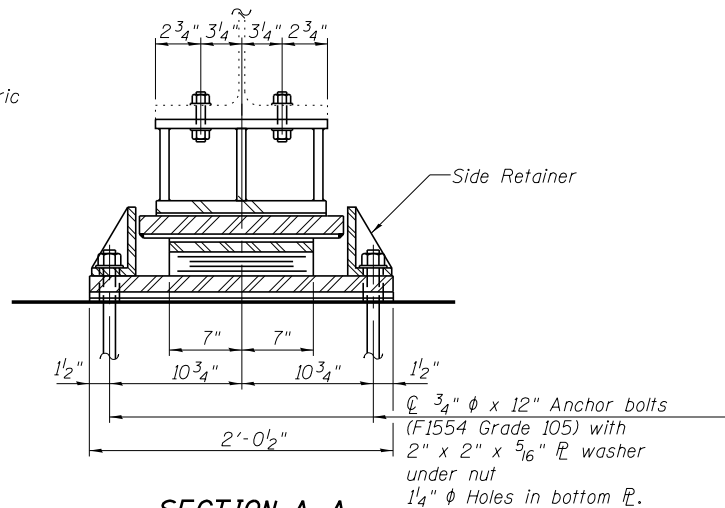
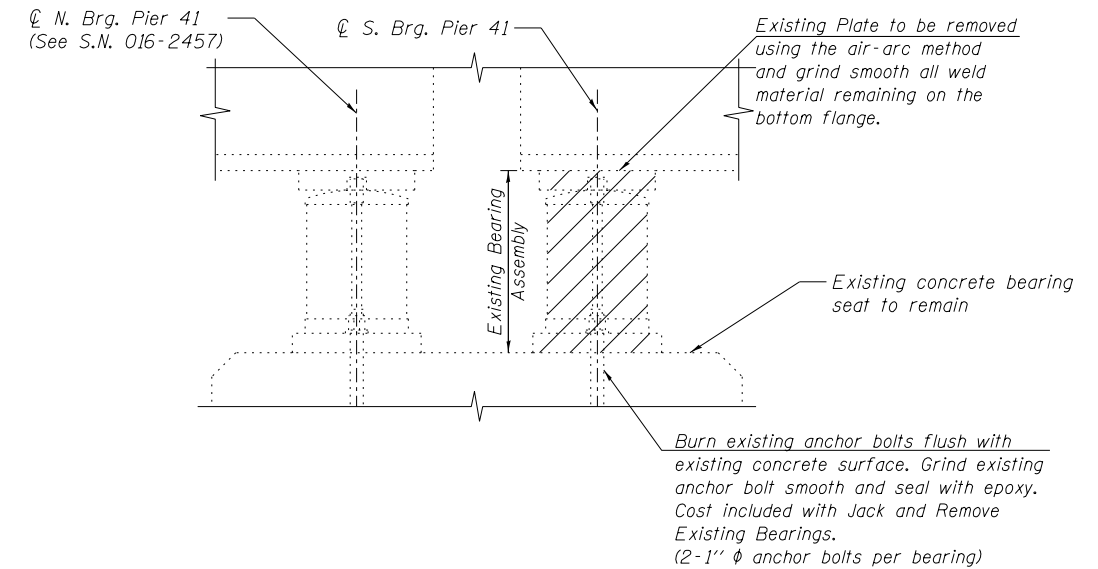


ELEVATION AT PIER 41



SECTION A-A

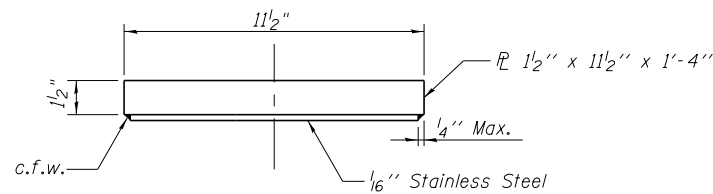


EXISTING BEARINGS REMOVAL DETAIL AT PIER 41

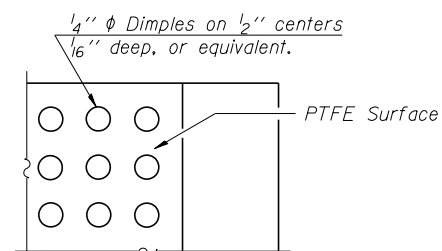
TYPE II ELASTOMERIC EXP. BRG.

(4 Required)

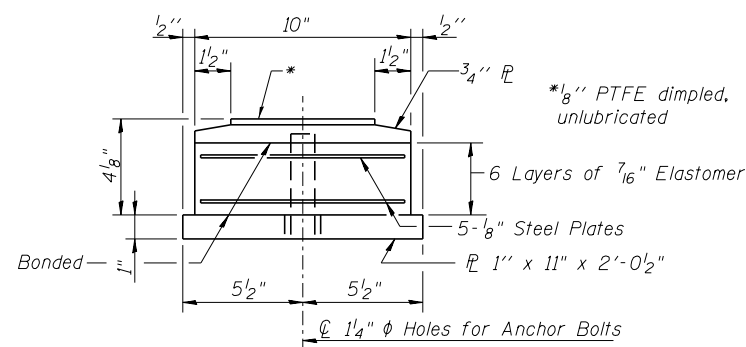
1. See special provision for "Jack and Remove Existing Bearings."
2. Jacking shall not commence until the deck has been removed entirely. The (steel only) dead load reaction is 6 kips for each south bearing at Pier 41. Minimum jack capacity = 4.5 tons.



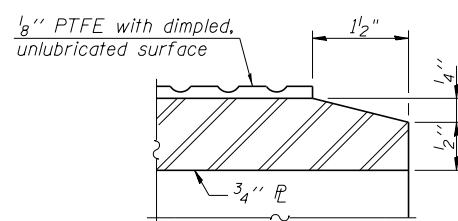
TOP BEARING PLATE



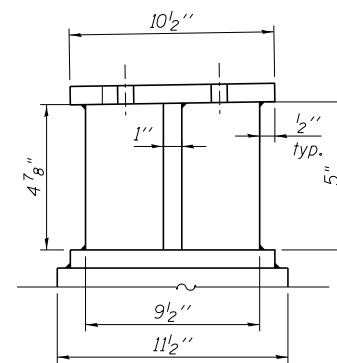
PLAN-PTFE SURFACE



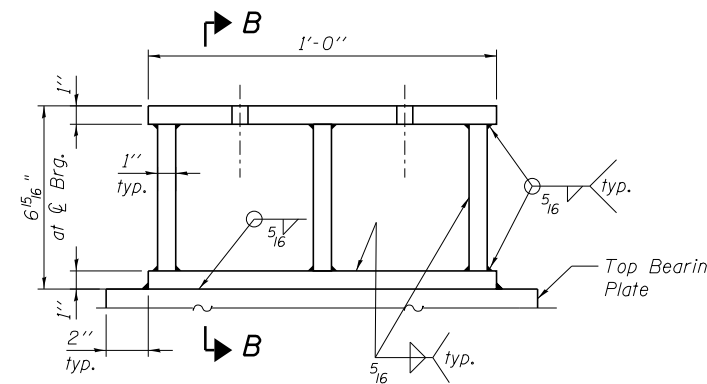
BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



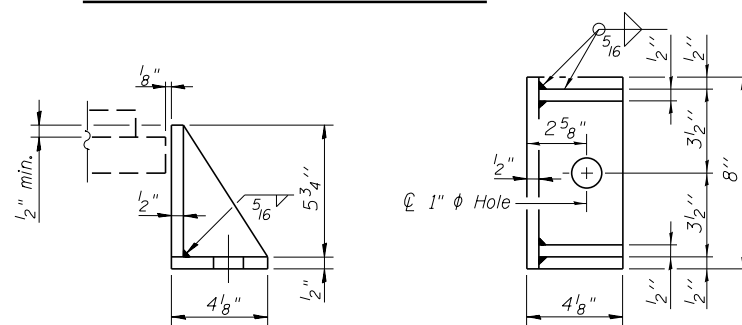
SECTION B-B



ELEVATION STEEL EXTENSION

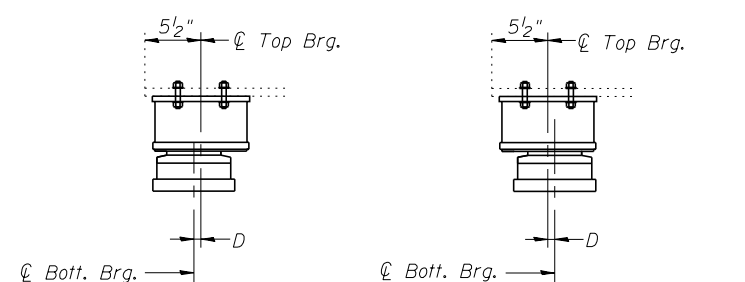
(Paid for as Furnishing and Erecting Structural Steel.)

Notes:
Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. 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 elastomeric 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.
The structural steel plates of the bearing assemblies shall meet the requirements of AASHTO M270 Grade 50.
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.



SIDE RETAINER

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



BELOW 50°F.

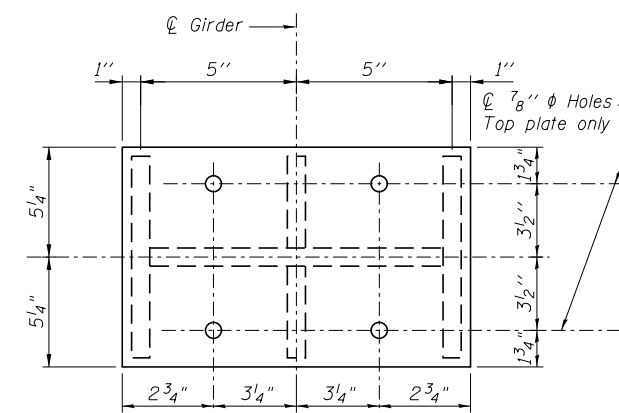
(Move bott. brg. away from fixed brg.)

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.



PLAN STEEL EXTENSION

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

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	4
Elastomeric Bearing Assembly Type II	Each	4
Anchor Bolts, 3/4"	Each	8
Furnishing and Erecting Structural Steel	Pound	510

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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FILE NAME =	USER NAME = tjenicke	DESIGNED - TJJ	REVISED -
0161026.60J16.013.Bearing_Dt1s.dgn	PLOT SCALE =	CHECKED - AAY/TPS	REVISED -
	PLOT DATE = 12/20/2013	DRAWN - KMS	REVISED -
		CHECKED - AAY/TPS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS
STRUCTURE NO. 016-1026**

SHEET NO. SF13 OF SF17 SHEETS

F.A.P. RTE. 372	SECTION 2013-038B-R	COUNTY COOK	TOTAL SHEETS 821	SHEET NO. 556
CONTRACT NO. 60J16				
ILLINOIS FED. AID PROJECT				

Y:\chicago\100005\100093\Eng_Docs\Phase II\SN 016.1026.SB.1st.Ave.Ramp-over_Des.Plaines_River\Final\026.60J16.013.Bearing_Dt1s.dgn 1:32:23 PM 7/9/2014