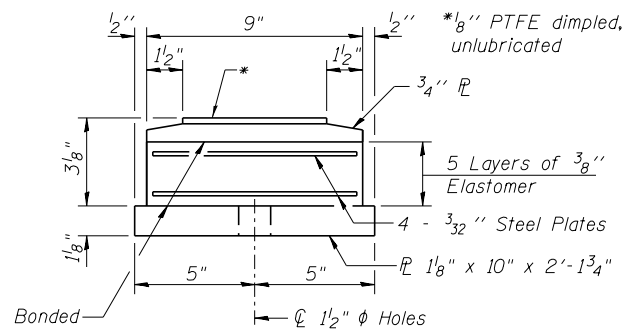
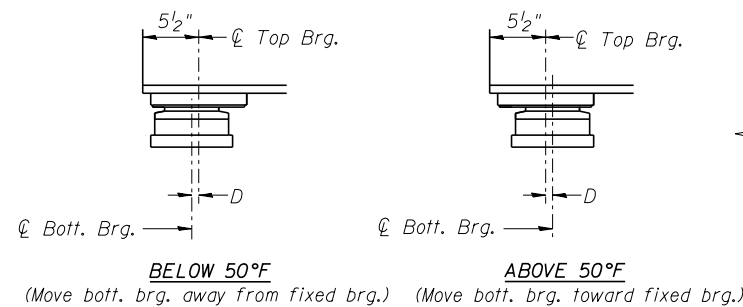


TYPE II TOP BEARING ASSEMBLY

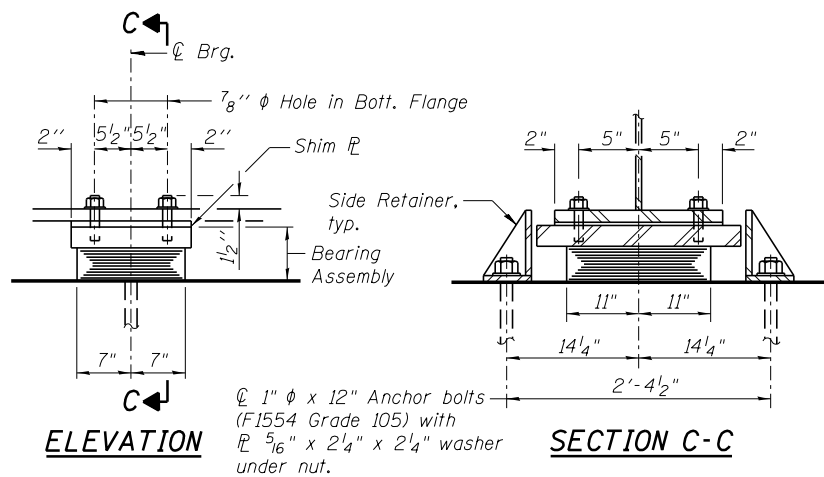


TYPE II BOTTOM BEARING ASSEMBLY

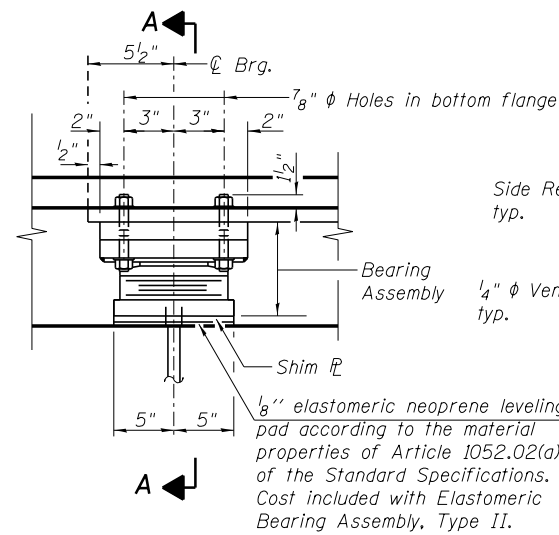


SETTING ANCHOR BOLTS AT EXP. BRG.

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

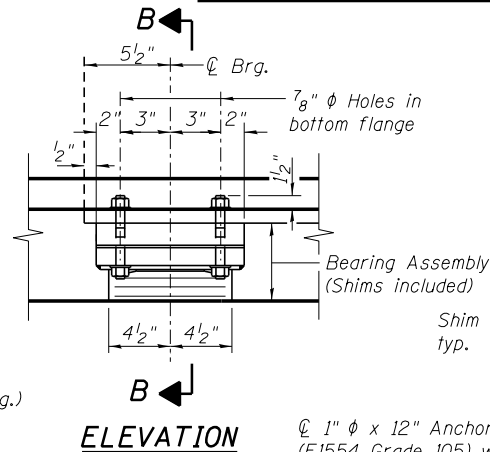


TYPE I ELASTOMERIC EXP. BRG. AT PIER 1



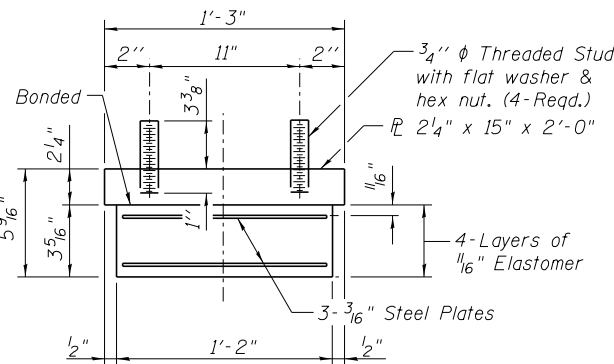
ELEVATION

TYPE II ELASTOMERIC EXP. BRG. AT S. ABUT.



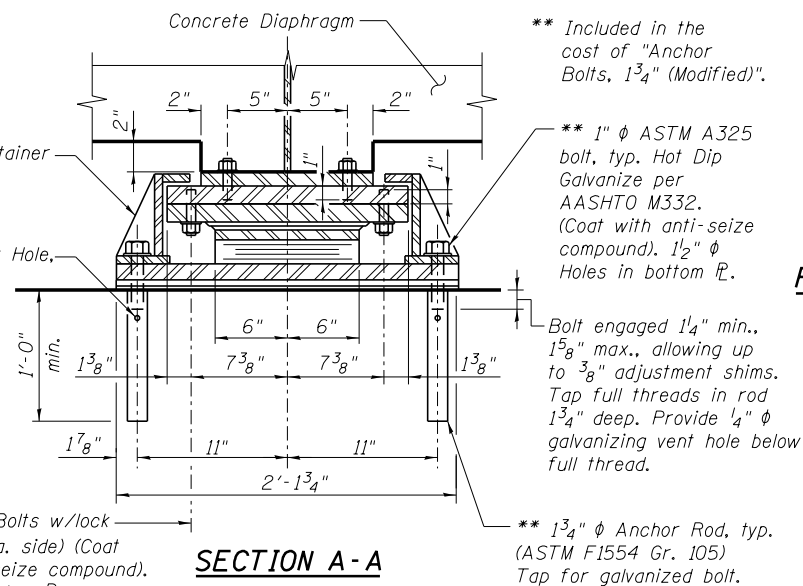
ELEVATION

TYPE I ELASTOMERIC EXP. BRG. AT N. ABUT.



TYPE I BEARING ASSEMBLY AT PIER 1

Note:
Shim plates shall not be placed under Type I Bearing Assembly.

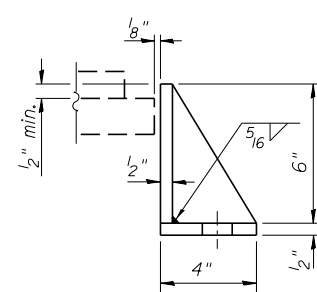


SECTION A-A

TYPE I BEARING ASSEMBLY AT N. ABUT.

Note:
Shim plates shall not be placed under Type I Bearing Assembly.

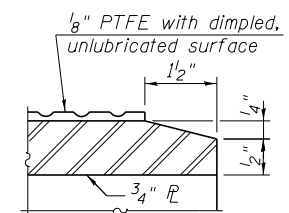
2 - 3/4" ϕ H.S. Bolts w/lock washers (Typ. ea. side) (Coat bolts with anti-seize compound). Tapped holes in top ϕ : 7/8" ϕ holes in bearing ϕ .



SIDE RETAINER AT PIER 1

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

PLAN - PTFE SURFACE



SECTION THRU PTFE

** Included in the cost of "Anchor Bolts, 1 3/4" (Modified)".

** 1" ϕ ASTM A325 bolt, typ. Hot Dip Galvanize per AASHTO M332. (Coat with anti-seize compound). 1/2" ϕ Holes in bottom ϕ .

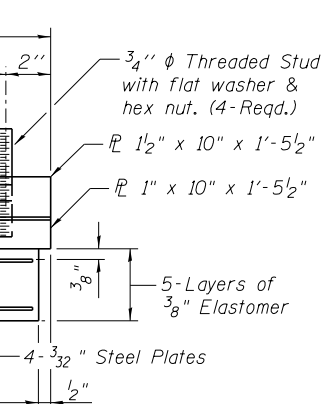
Bolt engaged 1/4" min., 1 5/8" max., allowing up to 3/8" adjustment shims. Tap full threads in rod 1 3/4" deep. Provide 1/4" ϕ galvanizing vent hole below full thread.

** 1 3/4" ϕ Anchor Rod, typ. (ASTM F1554 Gr. 105) Tap for galvanized bolt.

1/4" ϕ Dimples on 1/2" centers 1/16" deep, or equivalent.

NOTES:

- 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 I bearing side retainers shall be installed in holes drilled before or after members are in place. Anchor rods for Type II bearings shall be installed in holes drilled before members are in place.
- Drilled and set anchor bolts and rods shall be installed according to Article 521.06 of the Standard Specifications, with a minimum allowable tension capacity of 18 kips.
- Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I or Type II.
- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates and placed as shown on bearing details. Two 1/8 in. adjusting shims shall be provided for each side retainer at N. Abut. in addition to all other plates and placed as shown on bearing details.
- The structural steel plates of the bearing assembly shall conform to requirements of AASHTO M270 Grade 50.
- 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.



SIDE RETAINER AT ABUTMENTS

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

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Elastomeric Bearing Assembly, Type I	Each	24
Elastomeric Bearing Assembly, Type II	Each	12
Anchor Bolts, 1"	Each	48
Anchor Bolts, 1 3/4" (Modified)	Each	24

FILE NAME :	USER NAME :	DESIGNED :	REVISIONS :
0161000_60J16_028.elastbrgdet.dgn	jsurber	RMM	
		CHECKED :	REVISIONS :
		MAK	
		DRAWN :	REVISIONS :
		RMM	
		CHECKED :	REVISIONS :
		RMM	

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	276
				CONTRACT NO. 60J16
ILLINOIS FED. AID PROJECT				