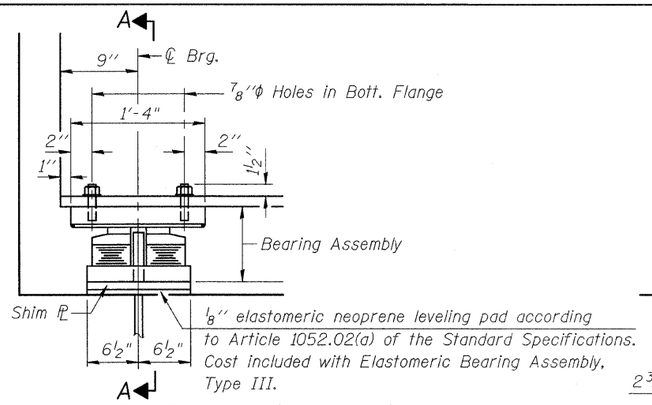
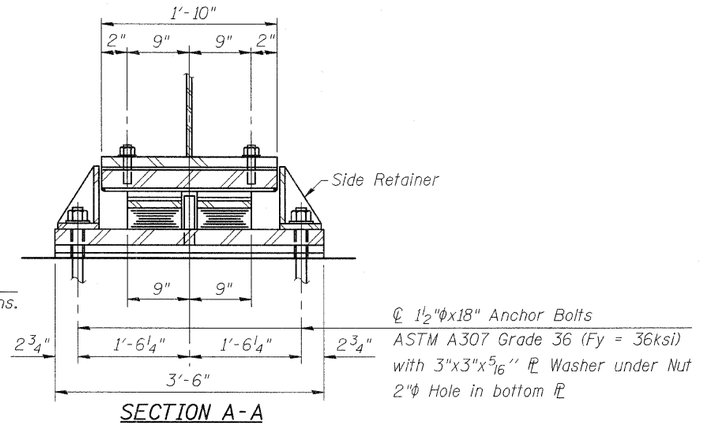
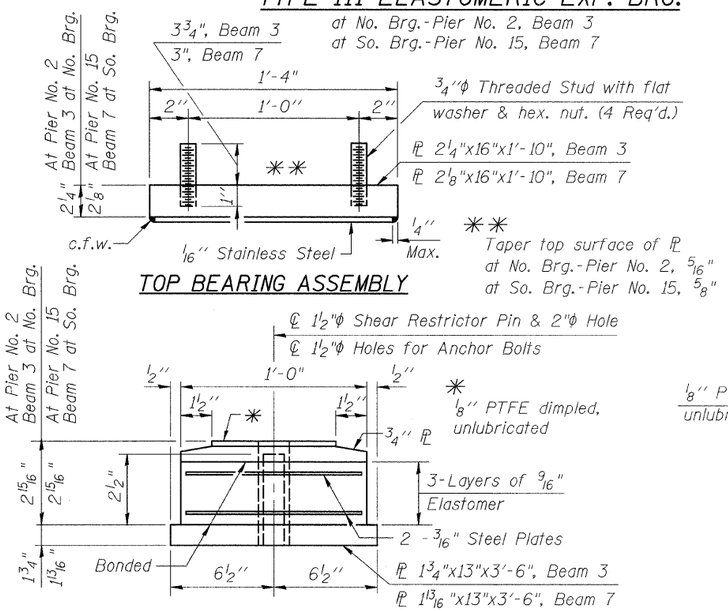


ELEVATION AT PIER NO. 2 (AS SHOWN)
ELEVATION AT PIER NO. 15 (OPP. HAND)



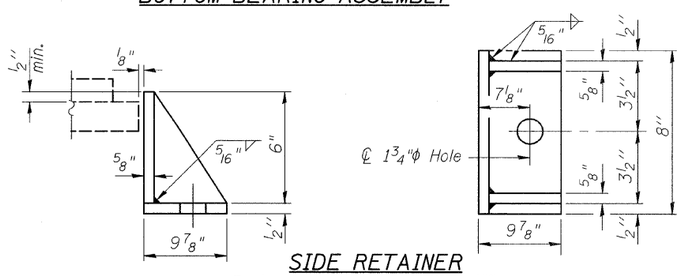
SECTION A-A

TYPE III ELASTOMERIC EXP. BRG.

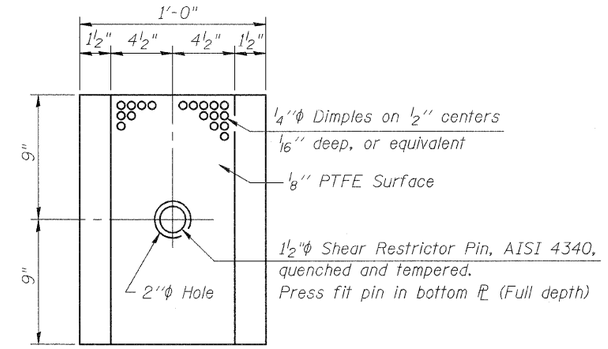


TOP BEARING ASSEMBLY

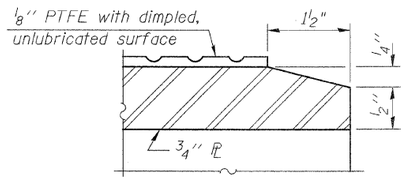
BOTTOM BEARING ASSEMBLY



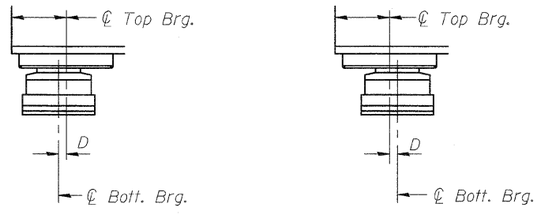
SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PLAN-PTFE ELASTOMERIC BRG.



SECTION THRU PTFE



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.

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 III 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 and other Steel members required for the Bearing Assembly shall be included in the cost of Elastomeric Bearing Assembly, Type III.

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 Elastomeric Bearing Assembly, Type III.

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

Min. jack capacity = 115 tons for Pier No. 2 at Beam 3 & 100 tons for Pier No. 15 at Beam 7.

BEAM REACTIONS
(From Existing Plans)

PIER 2 BEAM 3 NO. BRG.	PIER 15 BEAM 7 SO. BRG.
R_{DL} = 112.6	R_{DL} = 93.1k
R_{LL} = 63.6k	R_{LL} = 58.8k
R_{Imp} = 10.8k	R_{Imp} = 10.6k
R_{Total} 187.0k	R_{Total} 162.5k

BILL OF MATERIAL
AT PIER NO. 2, BEAM NO. 3
AT PIER NO. 15, BEAM NO. 7

Item	Unit	Total
Elastomeric Bearing Assembly, Type III	Each	2
Anchor Bolts, 1 1/2" ϕ	Each	4

LEGEND:
So. Brg. = South Bearing
No. Brg. = North Bearing

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS / PLANNERS / SURVEYORS
211 W. WACKER DRIVE CHICAGO, IL. 60606
PHONE: (312)372-2023 FAX: (312)372-5274

I-2E-3 10-1-08

FILE NAME = brg_assem_type-III.dgn	USER NAME = IDOT	DESIGNED - B.N.S.	REVISED -
		DRAWN - R.E.S./D.L./F.M.	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - B.N.S./J.C.N.	REVISED -
	PLOT DATE = 1/30/2009	DATE - JANUARY, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELASTOMERIC BEARING ASSEMBLY, TYPE III
LEMONT ROAD OVER DES PLAINES RIVER S.N. 016-2504

SCALE: | SHEET NO. S32 OF S41 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2612	3104 B-1-I-2	COOK	80	68
		CONTRACT NO. 60D76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		