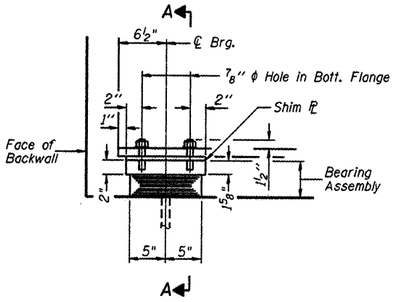
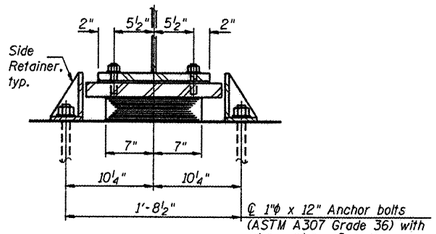


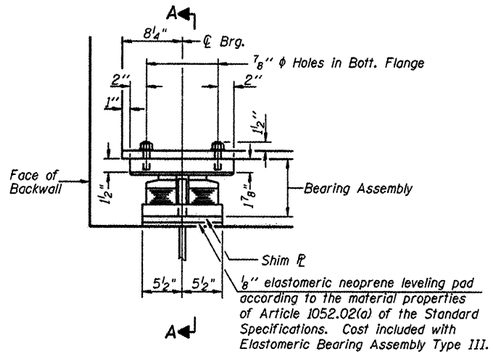
ELEVATION AT EAST ABUT.



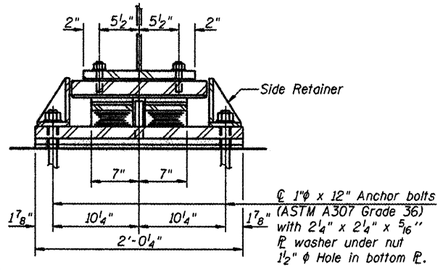
SECTION A-A

℄ 1"ϕ x 12" Anchor bolts (ASTM A307 Grade 36) with 2¼" x 2¼" x 5/16" PL washer under nut.

TYPE I ELASTOMERIC EXP. BRG.

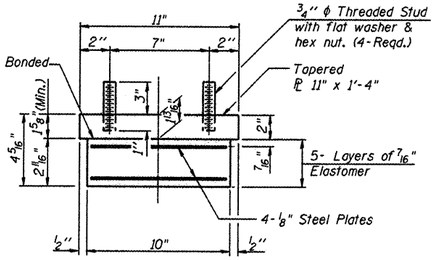


ELEVATION AT WEST ABUT.



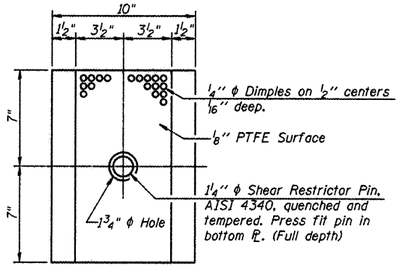
SECTION A-A

TYPE III ELASTOMERIC EXP. BRG.

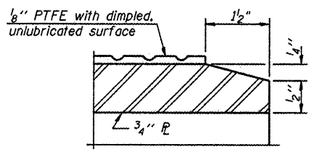


BEARING ASSEMBLY

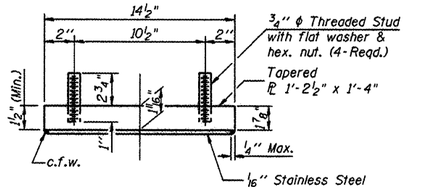
Note:
Shim plates shall not be placed under Bearing Assembly.



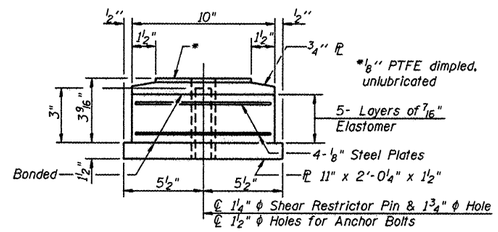
PLAN-PTFE ELASTOMERIC BRG.



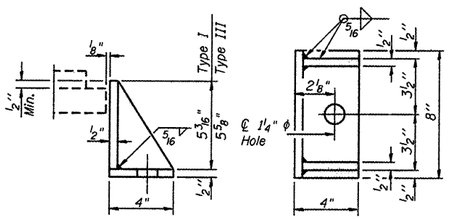
SECTION THRU PTFE



TOP BEARING ASSEMBLY

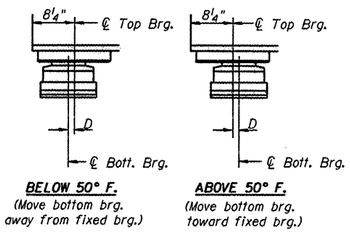


BOTTOM BEARING ASSEMBLY



SIDE RETAINER FOR TYPE I & TYPE III

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



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

ABOVE 50° F.
(Move bottom brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = ⅛" 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 of the grade and diameter 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 in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place for Type I bearings.

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 I & Type III.

The ⅛" 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 ⅛" 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 Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	9
Elastomeric Bearing Assembly Type III	Each	9
Anchor Bolts, 1"	Each	36

L:\ROCKFORD\9826982\Draw\CADD\Sheets\S.64.Bearing Detail Approach.dgn

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HNTB

DESIGNED	PA, JDJ, BPD, CJW	REVISED	-
DRAWN	GLD	REVISED	-
CHECKED	RJK	REVISED	-
DATE	02/04/2011	REVISED	-

CITY OF ROCKFORD
MORGAN STREET BRIDGE

BEARING DETAILS – APPROACH SPANS
STRUCTURE NO. 101-6108

SCALE: | SHEET NO. 63 OF 79 SHEETS | STA. 47+00.74 TO STA. 52+63.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	189
		CONTRACT NO. 85529		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT BRM-5099(65)		