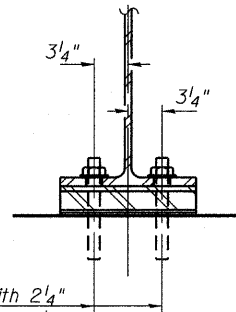


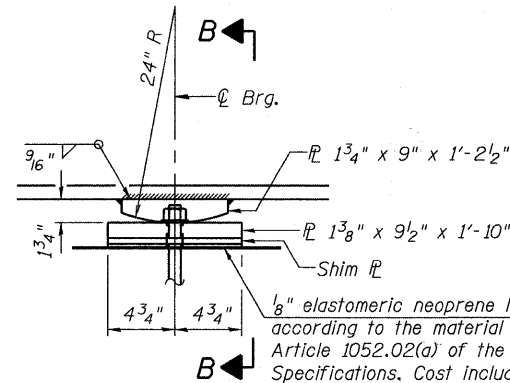
**ELEVATION AT ABUTMENT**



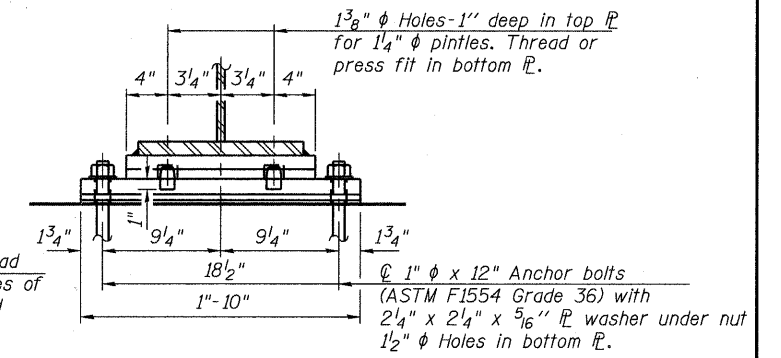
**SECTION A-A**

1"  $\phi$  x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16" PL washer under nut.  
1 3/8" x 2" slotted hole in flange.  
1 1/2"  $\phi$  holes in bearing plate.

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.



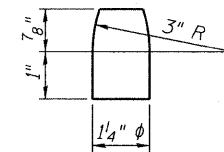
**ELEVATION AT PIER**



**SECTION B-B**

**FIXED BEARING AT PIERS**

**FIXED BEARING AT ABUTMENTS**



**PINTLE**

**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 at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

All anchor bolt nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable.

**BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts, 1"	Each	48

FILE NAME = W:\755-010 Blvin Phase II\CADD Sheets\Structural\755-010 SH1-16 S- BEARING DET.dgn



USER NAME = gonzalo	DESIGNED - SRT	REVISED -
PLOT SCALE =	CHECKED - JJI	REVISED -
PLOT DATE = 3/25/2011	DRAWN - GM	REVISED -
	CHECKED - JJI	REVISED -

**McHENRY COUNTY**  
**DIVISION OF TRANSPORTATION**  
**BLVIN STREET OVER NIPPERSINK CREEK**

**BEARING DETAILS**  
**STRUCTURE NO. 056-3191**

SCALE: SHEET NO. 16 OF 28 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00355-00-BR	McHENRY	69	41
			CONTRACT NO. 63583	
ILLINOIS FED. AID PROJECT				