

### ELEVATION AT PIERS 6 & 39

5 <sup>7</sup>8"

Pier 39 ' 4<sup>1</sup><sub>2</sub>"

Pier 6 N/A

Pier 39

12"

1<sup>l</sup>2" (Pier 6)

1" (Pier 39)

(2 required @ Pier 6, 1 required @ Pier 39 for new beam R5)

41/2"

 $PL I_2'' \times 9'' \times I' - I_2''$  (Pier 6)  $P_1 = x + 9 = x + 1' - 1_2 = (Pier 39)$ 

 $PL 1^{3}_{4}$ " x  $11^{3}_{4}$ " x  $1'-8^{3}_{4}$ " (Pier 6)

 $\mathbb{R} \ 1'' \times 9'' \times 1' - 8^{3}_{4}'' \ (Pier \ 39)$ 

<sup>1</sup>8" elastomeric neoprene leveling pad

Article 1052.02(a) of the Standard

Specifications. Cost included with

Structural Steel.

PINTLE

according to the material properties of

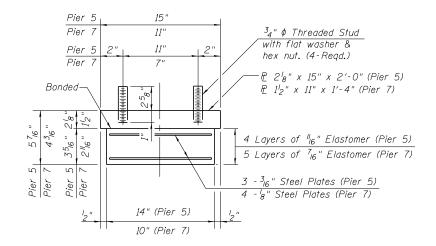
FIXED BEARING

# SECTION B-B

1'-834'

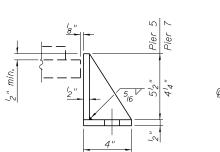
#### TYPE I ELASTOMERIC EXP. BRG.

(2 required, each pier)



#### BEARING ASSEMBLY

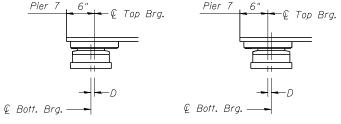
Shim plates shall not be placed under Bearing Assembly.



# € 1<sup>1</sup><sub>4</sub>" ¢ Hole

#### SIDE RETAINER

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



BELOW 50°F. ABOVE 50°F. (Move bott, brg. away from fixed brg.) (Move bott, brg. toward fixed brg.)

#### SETTING ANCHOR BOLTS AT EXP. BRG.

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

Two  $^{l}_{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

 $1^{3}_{8}$ "  $\phi$  Holes-1" deep in top  $P_{2}$ for 1 da" pintles. Thread or

€ 1" Ø x 12" Anchor bolts

 $1_2''' \phi$  Holes in bottom P.

(F1554 Grade 105) with  $2^{1}_{4}$ " x  $2^{1}_{4}$ " x  $2^{1}_{6}$ " R washer under nut

press fit in bottom P.

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 arade 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.

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

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.

Steel members and pintles required for fixed bearing assemblies shall be included with cost of furnishing and erecting structural steel.

The structural steel plates of the elastomeric bearing assemblies shall meet the requirements of AASHTO M270 Grade 50.

The structural steel plates and pintles of the fixed bearing assemblies shall meet the requirements of AASHTO M270 Grade 50.

#### BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	4
Anchor Bolts, 1"	Each	14

## benesch

205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60601 Job No. 10093

I-2F-1

1-27-12

	•		1-21-12	
DESIGNED	-	AAY	REVISED	-
CHECKED	-	AJK	REVISED	-
DRAWN	-	RMG	REVISED	-
CHECKED	-	AJK	REVISED	-

SECTION COUNTY 372 2013-038B-R COOK 821 445 CONTRACT NO. 60J16

USER NAME = ksnider **BEARING DETAILS 2 OF 2** STATE OF ILLINOIS **STRUCTURE NO. 016-2457** 162457\_60J16\_070\_Bearing\_Dtls\_2.dgn **DEPARTMENT OF TRANSPORTATION** SHEET NO. SD70 OF SD83 SHEETS PLOT DATE = 12/20/2013