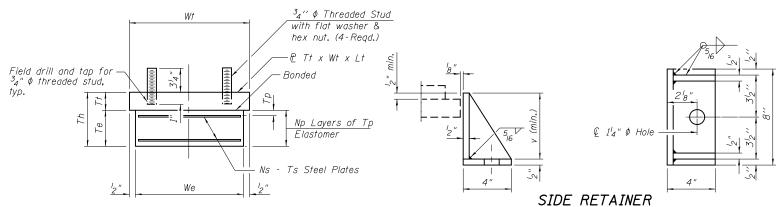


# TYPE I ELASTOMERIC EXP. BRG.

## TYPE I ELASTOMERIC BEARING DESIGN DATA

	Bearing Orientation				T.	Elastomers and Steel Plates					Top Plate				0.4						
Location	α	X1**	X2**	Y1**	Y2**	Y3	Th	We	Le	Τρ	Nρ	Ts	Ns	Те	T†	W†	Lt	Ws	Ws Df	Rb	L v
Pier 1	0°	1'-1"	1'-1"	8"	8"	1 <sup>5</sup> 8"	0/ "	15"	0.4"	3,"		3 <sub>16</sub> "	5	E7 "	05 "	1/ 4//	0/ 0"	<i>-3</i> "	1'-0"	1/ 7/ "	0/
Pier 4	+5°00′46"	1'-04"	1'-158"	91/8"	6 <sup>13</sup> 16 "	1 <sup>5</sup> 8"	8/16"	6 15	24"	34" 6	ь	5 16	5	5 <sup>7</sup> 16 "	2 <sup>5</sup> 8" 1'-	1 - 4	4 2 - 2	534	1-0	1'-34"	816"
Pier 3 S	0°	8"	8"	5½"	5½"	1 <sup>5</sup> 8"	<del></del> 6"	6" 10"	14"	716"	" 8	8"	7	438"	1 <sup>5</sup> 8" 1	11" 1'-	1'-4"	3½"	1'-0"	104"	6"
Pier 6 S	-4°03′03"	83 <sub>8</sub> "	7 <sup>9</sup> 16"	4 15 <sub>16</sub> "	6 1 <sub>6</sub> "	1 <sup>5</sup> 8"			14"	16						11	11   1 - 4	3.4			
Pier 9	-4°53′04"	1'-058"	11 <sup>5</sup> 16 "	6 <sup>7</sup> 16 "	8½"	1 <sup>5</sup> 8"	5 13 <sub>16</sub> "	14"	22"	″ <sub>16</sub> "	4	3 <sub>16</sub> "	3	35 <sub>16</sub> "	212"	1'-3"	2'-0"	5½"	1'-4"	1'-24"	5 <sup>13</sup> 16

<sup>\*\*</sup>Dimensions measured to corner of top plate.



Prop. concrete -

Exist. pier cap

Top Brg. P

Chord to Pier 8

fixed bearing

extension

€ Bearing

assembly

€ Exist, Pier &

€ Exist. Brg.

## BEARING ASSEMBLY

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

'χ<sub>2</sub>:

├─ Tangent to Ç Girder

© Q́Brg.

BEARING ORIENTATION PLAN

— Exist, girder

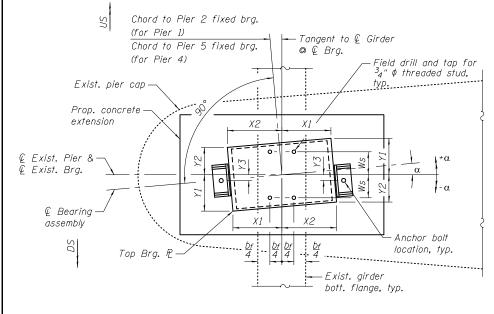
bott. flange, typ.

Anchor bolt

location, typ.

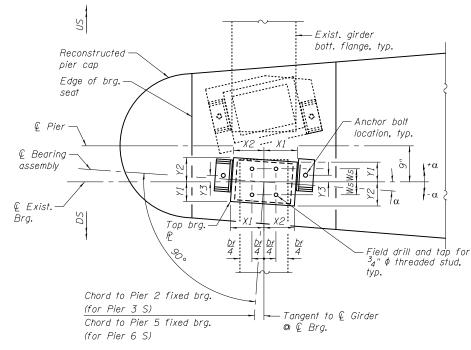
Field drill and tap for

 $3_4$ "  $\phi$  threaded stud,



# BEARING ORIENTATION PLAN

Pier 4 shown, Pier 1 similar



Pier 6 S shown, Pier 3 S similar

# BEARING ORIENTATION PLAN

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 side retainers may be cast in place or installed in drilled holes.

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.

Cost of field drilling & tapping shall be included in the cost of Elastomeric Bearing Assembly, Type I.

See Sheet S-62 for Bearing Removal Details and Jackina Procedure,

 $Two^{-1}8$  in, adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Existing cross frame bolts shall not be removed without prior approval from the Engineer.

### BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	20
Anchor Bolts, 1"	Each	40

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

7	USER NAME =	DESIGNED - TL	REVISED -
ı		CHECKED - BAK	REVISED -
L	PLOT SCALE =	DRAWN - TL	REVISED -
	PLOT DATE = 11/08/2012	CHECKED - BAK	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPE				_		ING -243	DETAILS 7
	SHEET	NO.	S-38	OF	S-83	SHEE1	S

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.						
94	2012-060-BR	COOK	285	201						
		CONTRACT	. NO. 6	60V61						
	TILINOIS FED AID PROJECT									