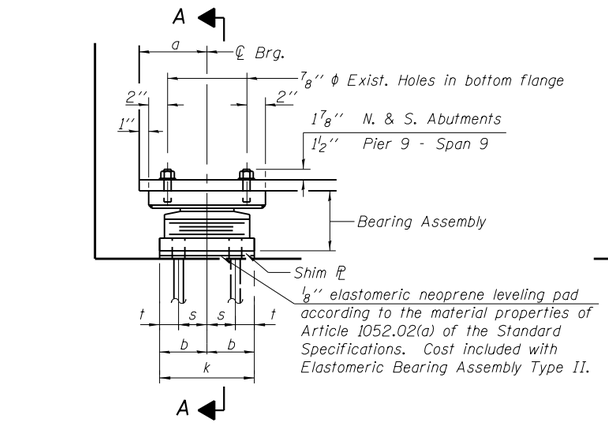
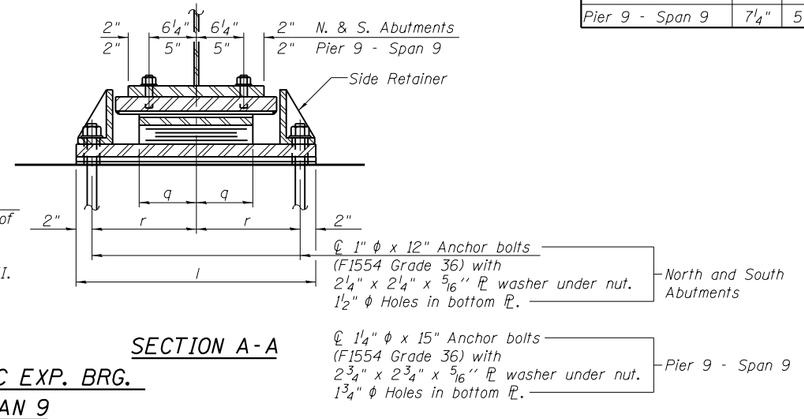
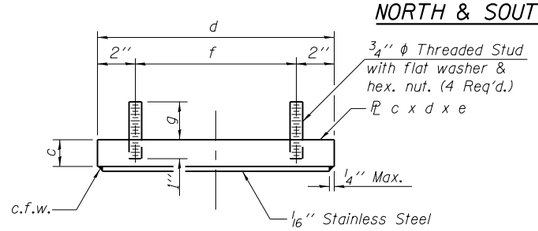


ELEVATION AT ABUT. OR PIER

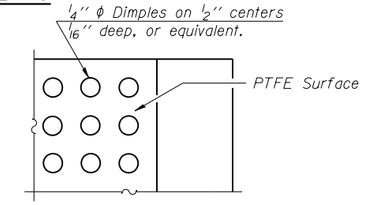


SECTION A-A

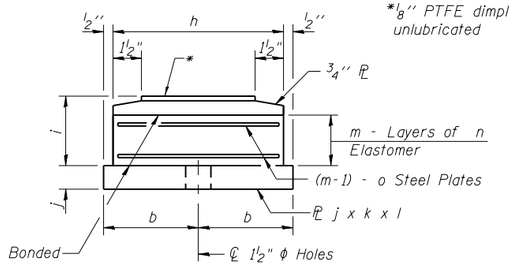
TYPE II ELASTOMERIC EXP. BRG.
PIER 9 - SPAN 9
NORTH & SOUTH ABUTMENTS



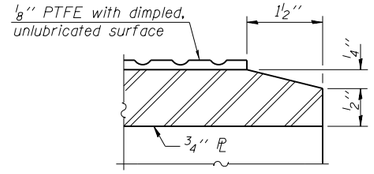
TOP BEARING ASSEMBLY



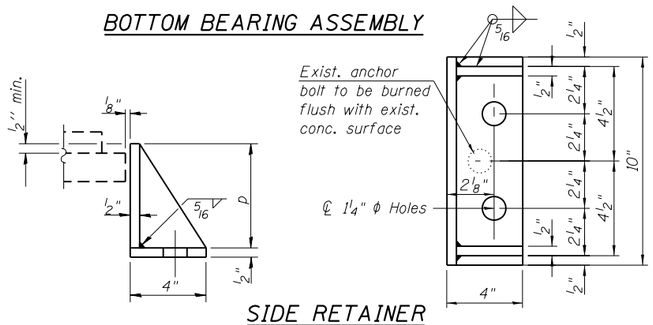
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

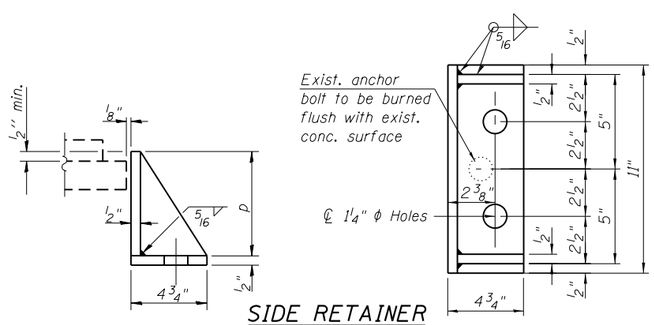


SECTION THRU PTFE



SIDE RETAINER
NORTH AND SOUTH ABUTMENTS

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



SIDE RETAINER
PIER 9 - SPAN 9

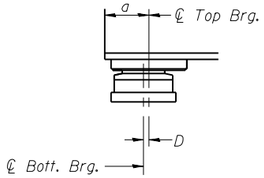
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

TABLE OF TYPE II DIMENSIONS

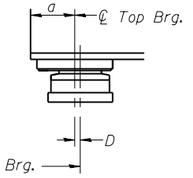
LOCATION	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t
N. Abut. & S. Abut.	6"	5"	2 1/8"	10"	1'-4 1/2"	6"	3"	9"	3 1/8"	1 7/8"	10"	2'-0 3/4"	5	3/8"	3/32"	5 3/8"	6"	10 3/8"	2 1/4"	2 3/4"
Pier 9 - Span 9	7 1/4"	5 1/2"	1 3/4"	12 1/2"	1'-4"	8 1/2"	2 1/2"	10"	5 1/4"	1 1/4"	11"	2'-1"	8	7/16"	1/8"	7 1/8"	7"	10 1/2"	2 1/2"	3"

NOTES:

1. 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.
2. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
3. Side retainers, shim plates, connection bolts, and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.
4. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
5. 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.
6. See special provisions for Jacking and Removing procedures for existing bearings.
7. 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.
8. 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.
9. Removal of Existing Bearings shall be performed after Temporary Shoring and Cribbing of existing beams/girders.
10. Minimum jack capacity = 60 tons.



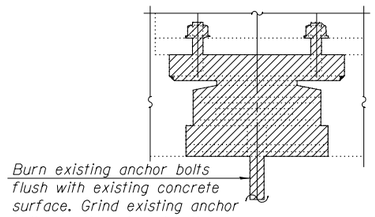
BELOW 50°F.
(Move bott. brg. away from fixed brg.)



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

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.



EXISTING TYPE II BEARING

(N. Abutment, Pier 9 Span 9, and S. Abutment)

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	18
Anchor Bolts, 1"	Each	48
Anchor Bolts, 1 1/4"	Each	24
Jack and Remove Existing Bearings	Each	11
Removal of Existing Bearings	Each	7

I-2E-2

1-27-12

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PHONE: (708) 236-0900
FAX: (708) 236-0901

DATE - 03/13/2013

DESIGNED - JJS, LAK	REVISED -	
CHECKED - MI	REVISED -	
DRAWN - JJS, LAK	REVISED -	
CHECKED - MAI, MI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPE II ELASTOMERIC BEARING DETAILS
EB US ROUTE 20 OVER PECATONICA RIVER STRUCTURE NO. 089-0042
SHEET NO. S19 OF S26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0301	(177-4B-1)M	STEPHENSON	43	36
		CONTRACT NO. 64J24		
	ILLINOIS FED. AID PROJECT			