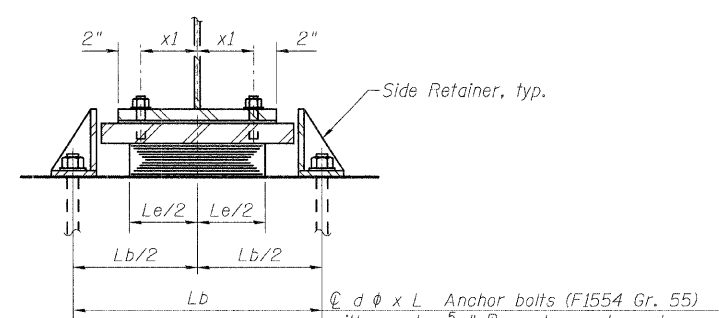


ELEVATION AT PIER 5, PIER 9 & E. ABUT.

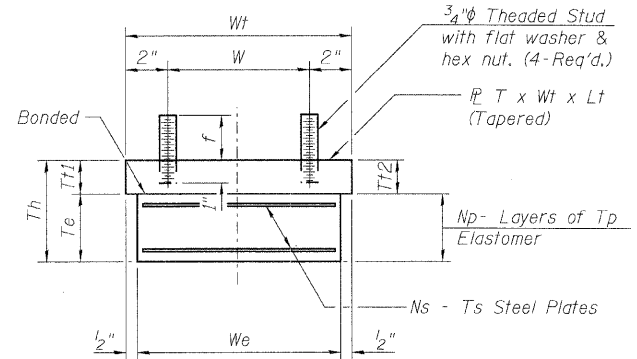


SECTION A-A

**TYPE I ELASTOMERIC EXP. BRG.**

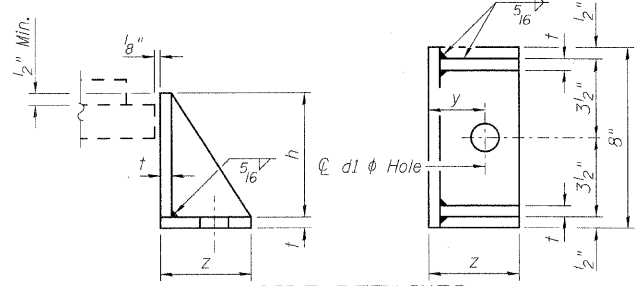
**Notes for Type I & II Elastomeric Expansion Bearings:**

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50W.  
 Two 1/8 in. adjusting shims shall be provided for each bearing in addition to the other plates or shims and placed as shown on bearing details.  
 All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).  
 H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 50.  
 Anchor bolts shall be ASTM F1554 all-thread or an Engineer-approved alternate material of the grade(s) and diameter(s) specified. The corresponding specific 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 holes drilled before or after members are in place.  
 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 bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I or II.  
 Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.  
 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.  
 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.



**BEARING ASSEMBLY**

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



**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Elastomeric Bearing Assembly Type II	Each	8
Anchor Bolts 1" φ	Each	12
Anchor Bolts 1 1/4" φ	Each	12
Anchor Bolts 1 1/2" φ	Each	4

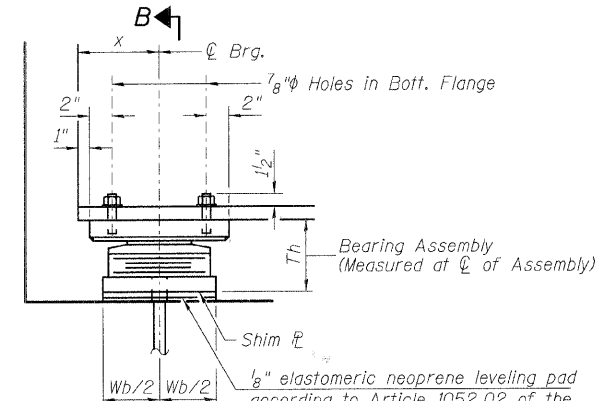
**ELASTOMERIC EXPANSION BEARING ASSEMBLIES TYPE I & TYPE II**

**TABLE OF DIMENSIONS**  
(All dimensions are in inches unless otherwise noted)

Location	Type	No.	We	Le	Tp	Np	Ts	Ns	Te	Wt	W	Lt	T at C	T11	T12	Th	f
W. Abut.	II	2	7	12	3/8	3	3/32	2	2 3/16	8	4	14	1 3/4	1 1/2	2	5	2 1/4
Pier 5	I	2	10	14	7/16	5	1/8	4	2 11/16	11	7	16	2 1/8	1 7/8	2 3/8	4 13/16	2 1/2
Pier 6	II	2	10	14	7/16	5	1/8	4	3 9/16	11	7	16	2 1/8	1 7/8	2 3/8	7	2 1/4
Pier 8W	II	2	12	18	9/16	4	3/16	3	3 11/16	13 1/4	9 1/4	25 3/4	2 9/16	2 1/4	2 7/8	7 9/16	2 3/4
Pier 8E	II	2	6	10	5/16	6	14 ga.	5	3 1/8	8	4	12	1 5/8	1 1/2	1 3/4	5 13/16	2 3/4
Pier 9	I	2	11	16	1/2	4	1/8	3	2 3/8	12	8	18	2 1/4	2	2 1/2	4 5/8	3
E. Abut.	I	2	6	10	5/16	6	14 ga.	5	2 1/4	7	3	12	1 5/8	1 1/2	1 3/4	3 7/8	3

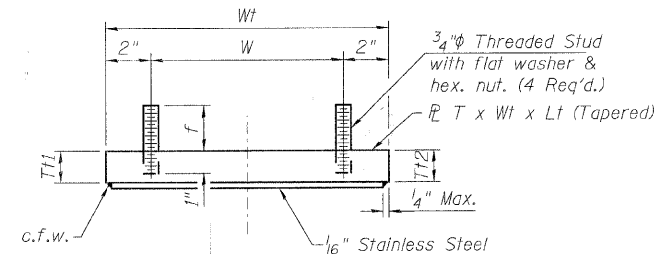
Location	a	b	d	L	x	x1	t	y	z	d1	h	A	Tb	Wb	Lb	Lc	d2
W. Abut.	2 1/4	2 1/4	1	12	5	3 1/4	1/2	2 1/8	4	1 1/4	4	1	1	8	22 1/4	18 1/2	1 1/2
Pier 5	2 3/4	2 3/4	1 1/4	15	---	3 1/4	1/2	2 3/8	4 3/4	1 1/2	5 1/16	---	---	---	21	---	---
Pier 6	2 3/4	2 3/4	1 1/4	15	---	3 1/4	1/2	2 3/8	4 3/4	1 1/2	5 15/16	1 1/2	1 1/4	11	25 3/4	21	1 3/4
Pier 8W	3	3	1 1/2	18	8 1/2	3 1/4	5/8	2 3/4	5 1/2	1 3/4	6 5/16	1 1/2	1 1/4	13	31 1/4	25 3/4	2
Pier 8E	2 1/4	2 1/4	1	12	5	3 1/4	1/2	2 1/8	4	1 1/4	4 13/16	1	1	7	20 1/4	16 1/2	1 1/2
Pier 9	2 3/4	2 3/4	1 1/4	15	---	3 1/4	1/2	2 3/8	4 3/4	1 1/2	4 3/4	---	---	---	23	---	---
E. Abut.	2 1/4	2 1/4	1	12	4 1/2	3 1/4	1/2	2 1/8	4	1 1/4	4	---	---	---	16 1/2	---	---

DESIGNED	MJD
CHECKED	AEU
DRAWN	MJD
CHECKED	AEU

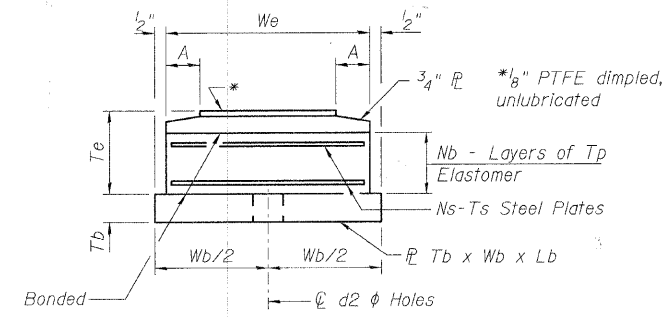


ELEVATION AT W. ABUT.,  
PIER 6 & PIERS 8E & 8W

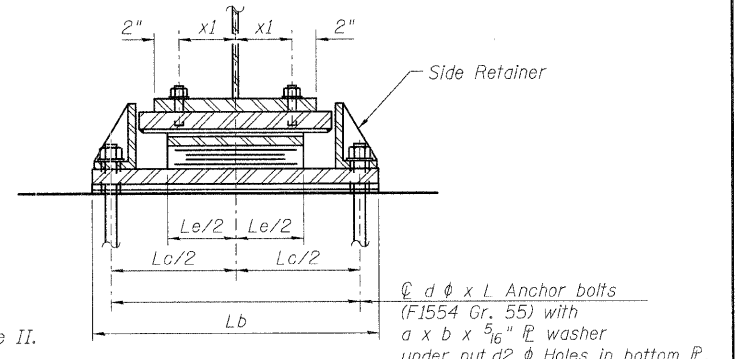
**TYPE II ELASTOMERIC EXP. BRG.**



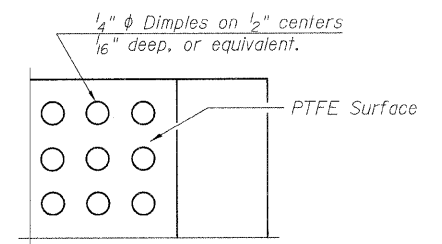
**TOP BEARING ASSEMBLY**



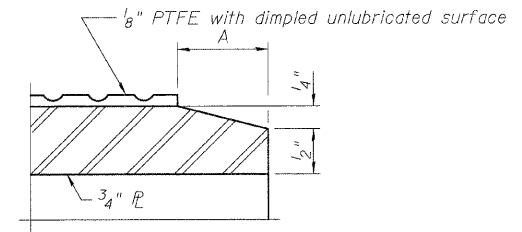
**BOTTOM BEARING ASSEMBLY**



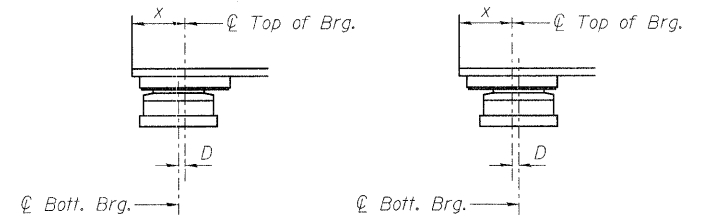
SECTION B-B



**PLAN-PTFE SURFACE**



**SECTION THRU PTFE**



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.

**RHA&A**  
 Robert H. Anderson & Associates, Inc.  
 Consulting Engineers  
 License No. 184-005281

**BEARING DETAILS I**  
 PEDESTRIAN BRIDGE OVER RANDALL ROAD  
 AT SILVER GLEN ROAD  
 FAU 2505, SECTION 94-P4008-01-BR  
 KANE COUNTY  
 STRUCTURE NO. 045-9000  
 DATE: OCTOBER 31, 2008