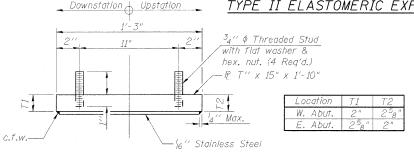
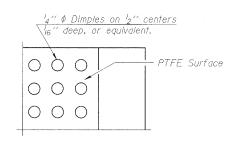
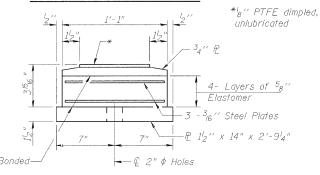


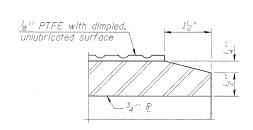
## TYPE II ELASTOMERIC EXP. BRG.





#### TOP BEARING ASSEMBLY



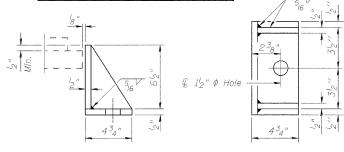


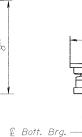
SECTION THRU PTFE

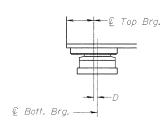
PLAN-PTFE SURFACE

## BOTTOM BEARING ASSEMBLY

FILE NAME =







# SIDE RETAINER

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

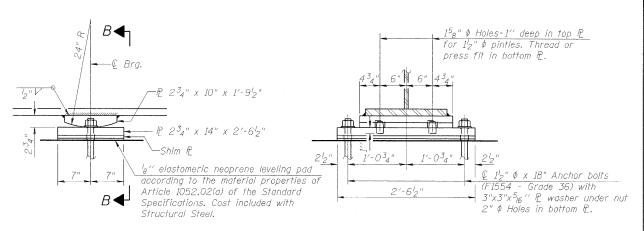
BELOW 50°F.

**→ ©** Top Brg.

(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

### SETTING ANCHOR BOLTS AT EXP. BRG.

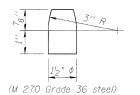
 $D=\frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



## ELEVATION AT PIER

#### SECTION B-B

#### FIXED BEARING



PINTLE

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.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

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 II.

The 18" 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 18" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Two  $l_8$  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 structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

#### BILL OF MATERIAL

. Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12
Anchor Bolts 1 <sup>l</sup> 4"	Each	24
Anchor Bolts 1 <sup>l</sup> 2"	Each	12

COUNTY TOTAL SHEE

CONTRACT NO. 76C55

ST. CLAIR 236

DESIGNED - JXH REVISED USER NAME = hej 082-0378\_76C55\_\$21\_Bearing.dgn DRAWN JHR REVISED PLOT SCALE = 0:1 ':' / IN. CHECKED - CHY REVISED 10-09-09 REVISED PLOT DATE = 11/11/2009

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION **BEARING DETAILS** 82-1-1HB EXCHANGE AVENUE OVER 1-55 /70 (S.N. 082-0378) SHEET NO. S-21 OF S-37 SHEETS STA.