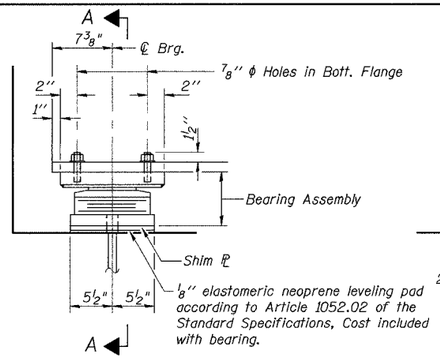
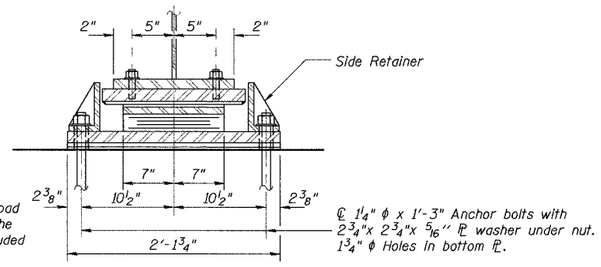
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119R-1-B	McHenry	77	33
FED. ROAD DIST. XXXX		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 11 OF 27 SHEETS

Contract #62340

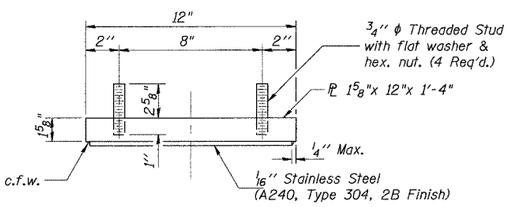


ELEVATION

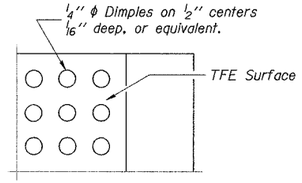


SECTION A-A

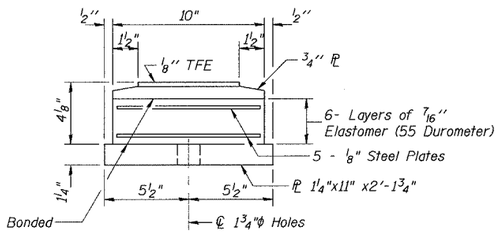
TYPE II ELASTOMERIC EXP. BRG. AT ABUTMENTS



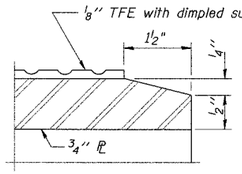
TOP BEARING ASSEMBLY



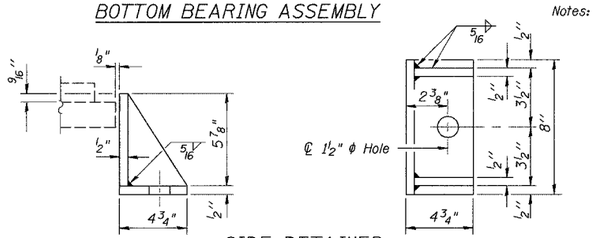
PLAN-TFE SURFACE



BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

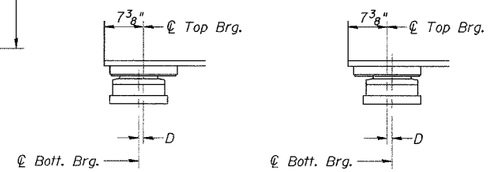


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel. Fy=36 ksi.

Notes: The 1/8" TFE 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" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



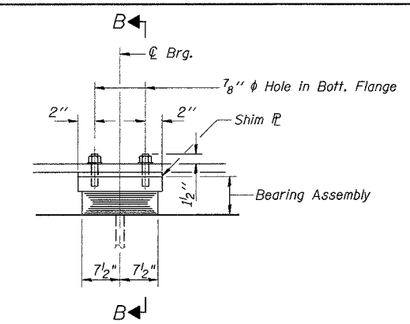
SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

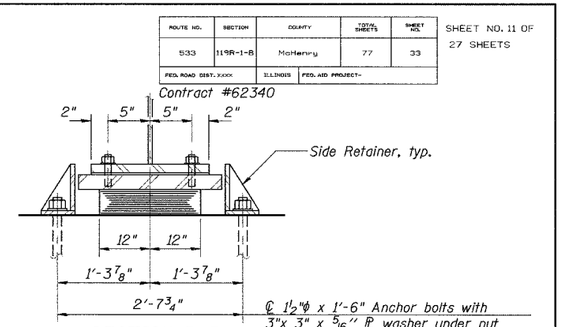
DESIGNED	S.S.T.
CHECKED	S.D.H.
DRAWN	E.B.
CHECKED	S.S.T.

BILL OF MATERIAL

Item	Unit	Total
Erecting Elastomeric Bearing Assembly Type II	Each	12

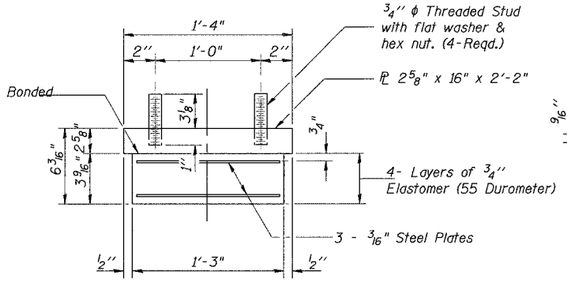


ELEVATION



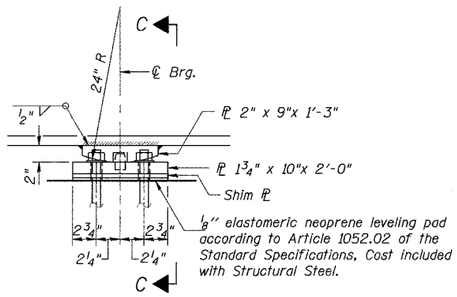
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG. AT PIER 1 & 3

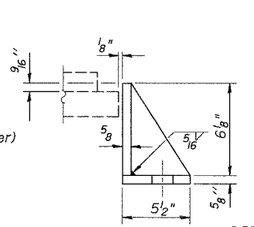


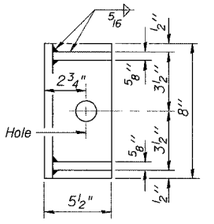
BEARING ASSEMBLY

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



ELEVATION AT PIER



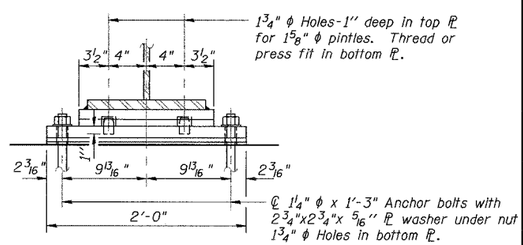


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel. Fy=36 ksi.

Item	Unit	Total
Erecting Elastomeric Bearing Assembly Type I	Each	12

BILL OF MATERIAL



SECTION C-C

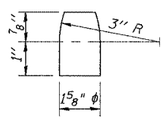
FIXED BEARING AT PIER 2

(6 Req'd)

Notes:

Anchor bolts at fixed bearings may be built into the masonry.
See Sheet 19 of 27 for Anchor Bolt installation.
All Structural Steel on this sheet to be AASHTO M-270, Grade 50 Unless Noted Otherwise.

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.



PINTLE

ELASTOMERIC EXPANSION & FIXED BEARINGS
IL Route 176 over
South Branch of the Kishwaukee River
F.A.P. RTE 533, SECTION 119R-1-B
McHENRY COUNTY
STATION 51+50.00
DATE: 08-17-07 S.N. 056-0071

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC
CHICAGO ILLINOIS

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