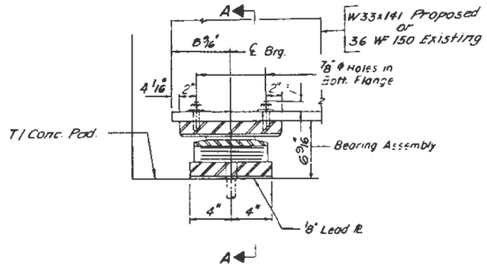
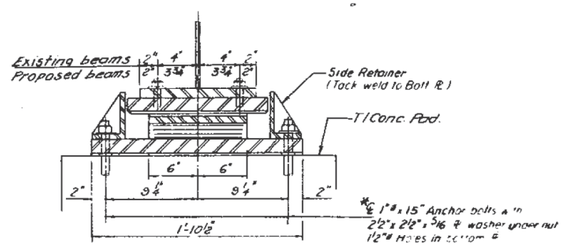
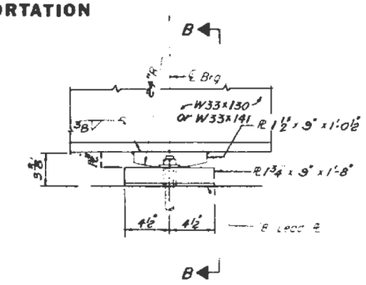
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



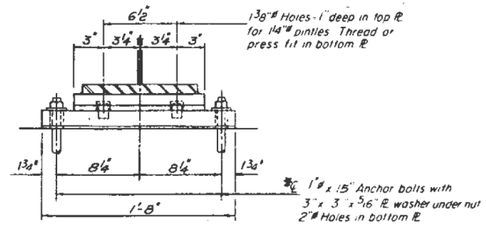
SECTION AT ABUT.



SECTION A-A



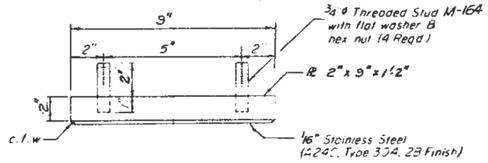
ELEVATION AT PIER # 2



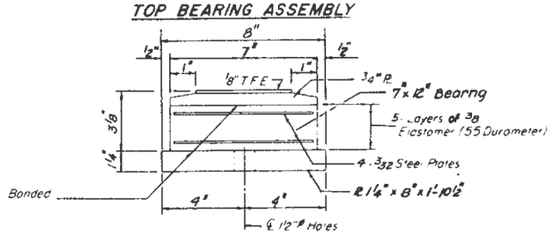
SECTION B-B

FIXED BEARING
(AT PIER 2, BEAMS A,B,C,D&E)
(5-Required)

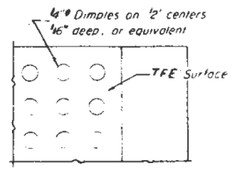
TYPE II TFE ELASTOMERIC EXP. BRG.
(West Abutment Beams 1 thru 12
East Abutment Beams 1 thru 12, C, D & E)



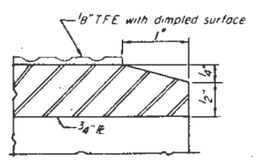
TOP BEARING ASSEMBLY



BOTTOM BEARING ASSEMBLY



PLAN - TFE SURFACE

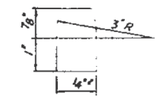


SECTION THRU TFE

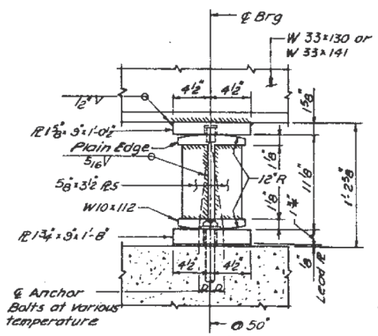
Note The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I The bond agent shall be applied on the full area of the contact surfaces.

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.

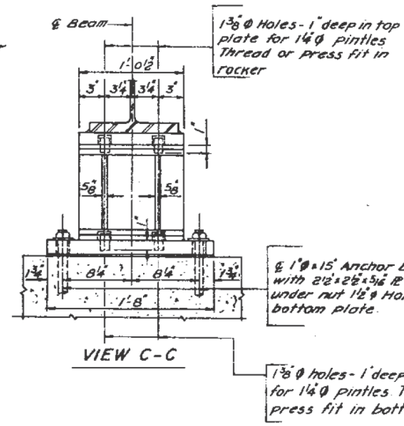
* Note: After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.
For anchor bolt installation detail see sheet # 2C



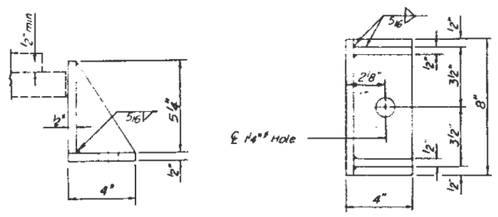
PINTLE



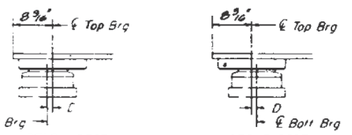
ELEVATION



VIEW C-C

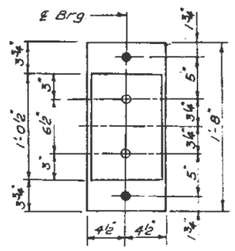


SIDE RETAINER
(Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.)



BELOW 50°F (Move batt brg away from fixed brg.)
ABOVE 50°F (Move batt 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 at 50°F



PLAN

Remove existing bearing at abutments including top plate welded to the beam Grind ℄ continuous fillet weld smooth after removing top plate. Anchor bolts to be left in place & cut flush with surface.

The contractor shall submit the jacking detail of existing stringers and the sequence of operations for an approval by the engineer.
Minimum Jacking Force = 10 T/Beam.

EXPANSION BEARING
(AT PIER '1' & '3', BEAMS A,B,C,D, & E)
(10- Required)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Elastomeric Bearing Assembly Type II	Each	27
Jack & Remove Existing Bearing	Each	24

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		DRAWN -	REVISED -
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Default	PLOT DATE = 8/22/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
SN 016-0713
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
375	0304.1HB-BP	COOK	10	6
		CONTRACT NO. 60Y77		
		ILLINOIS FED. AID PROJECT		