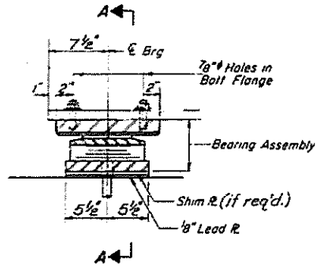
FOR INFORMATION ONLY

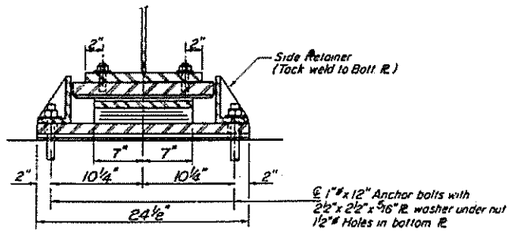
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	255	82-7HB	St Clair	83	60

SHEET NO. 46
69 SHEETS

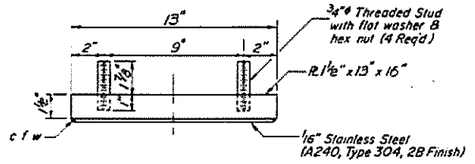


SECTION AT PIER
(Looking West)

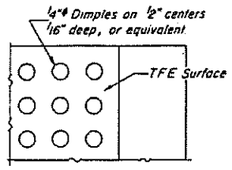


SECTION A-A

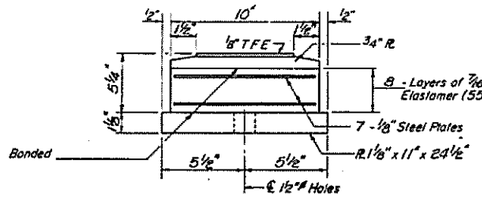
TYPE II TFE ELASTOMERIC EXP BRG.
(Pier 3-Span 3-Beams 7-10)



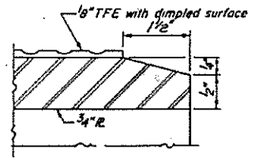
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE



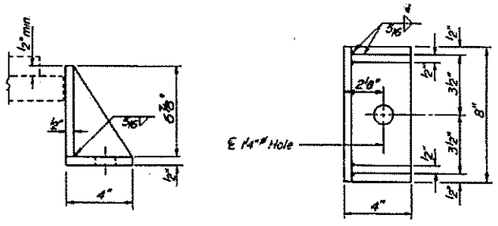
BOTTOM BEARING ASSEMBLY



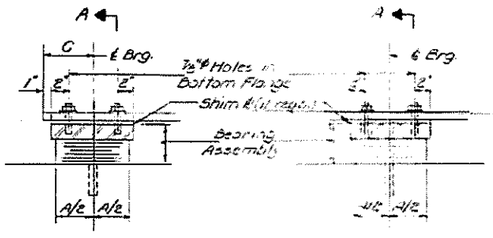
SECTION THRU TFE

Note: The ⅛" 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 ⅛" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

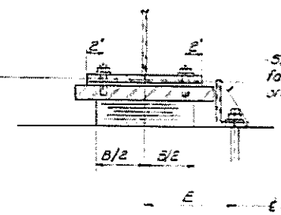


SIDE RETAINER
(For Type II)



SECTION AT ABUT. or PIER 3

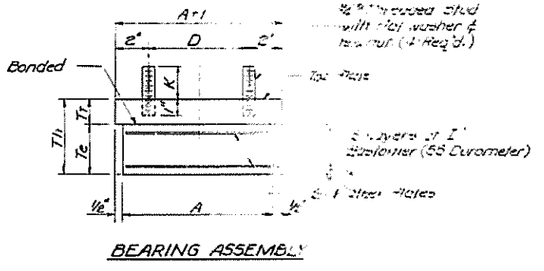
SECTION AT PIERS 2 & 5



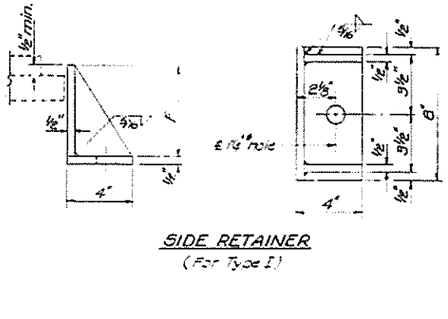
SECTION A-A

Notes: After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. All load carrying bearing plates shall be AASHTO M223 Grade 50 except as noted.

TYPE I ELASTOMERIC EXP BRG.



BEARING ASSEMBLY



SIDE RETAINER
(For Type I)

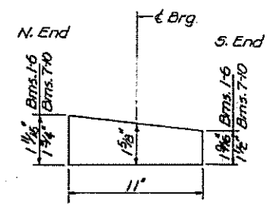
Note: Shim plates shall not be placed under Bearing Assembly.

TABLE OF DIMENSIONS FOR TYPE I BEARINGS

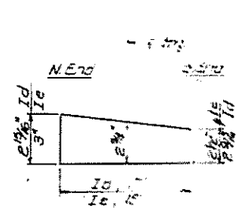
Type	Location	A	B	C	D	E	F	G	H	I	J	K	Top Plate	Te	Tt	Th
Ia	N. Abut. Brns. 1-10 Pier 3, Span 4, Brns 1-10	10"	42"	5½"	—	10¼"	5½"	6	⅛"	7/16"	7/16"	2"	*15/16" x 11" x 16"	3 5/16"	1 5/16"	5 3/16"
Ib	Pier 2 Brns. 1-6	20"	26"	—	2"	10¼"	7¼"	3	9/16"	13/16"	15/16"	3 5/16"	2 7/8" x 21" x 28"	4 5/16"	2 3/16"	7 3/16"
Ic	Pier 2 Brns. 7-10	15"	22"	—	2"	14¼"	7"	4	3/16"	13/16"	7/16"	2 5/8"	2½" x 19" x 24"	4 3/16"	2½"	6 5/16"
Id	Pier 5 Brns. 1-6	16"	34"	—	3"	15¼"	7¼"	4	3/16"	3/4"	3/4"	2 3/4"	**2 3/8" x 17" x 26"	4½"	2 3/4"	7½"
Ie	Pier 5 Brns. 7-10	17"	26"	—	4"	15¼"	7¼"	4	3/16"	13/16"	7/16"	2 3/4"	**2 3/4" x 18" x 26"	4 3/16"	2 3/4"	7 3/16"

BILL OF MATERIAL

Item	Unit	Quantity
Elastomeric Brg. Assembly, Type I	Each	40
Elastomeric Brg Assembly, Type II	Each	4

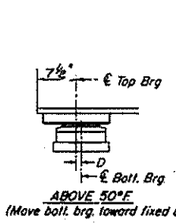


* TAPERED TOP ℝ DETAIL
(Pier 3 Span 4 only)



** TAPERED TOP ℝ DETAIL

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.
0 = ⅛" per each 100° of expansion for every 15° temp. change from the normal temp. of 50°F

(TYPE II) (Looking West)

BEARING DETAILS
F.A.I. RT. 270 SEC. 82-7HB
ST. CLAIR COUNTY
STATION 343+61.11

DESIGNED	Rick Brunette		
CHECKED	DAN KRULL	EXAMINED	May 7 1981
DRAWN	S.G. FERCHOW	PASSED	
CHECKED	DK	APPROVED	

I-2-E2 4-1-79

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___
	PLOT DATE = $DATE$	DATE - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BEARING DETAILS
(SN 082-0217, 0218)

SCALE: N/A | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-7HB-P	ST. CLAIR	25	24
		CONTRACT NO. 76064		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT