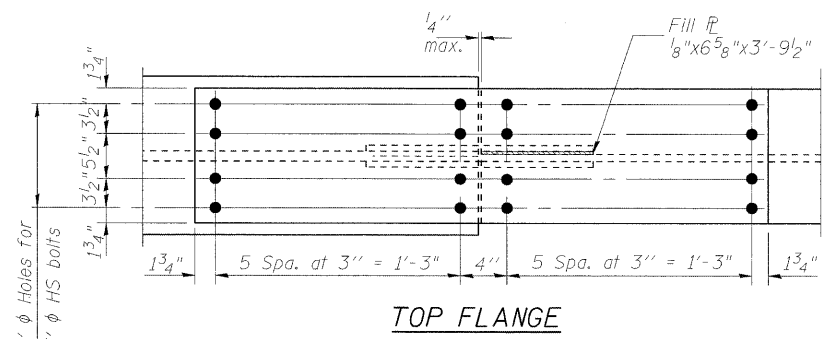
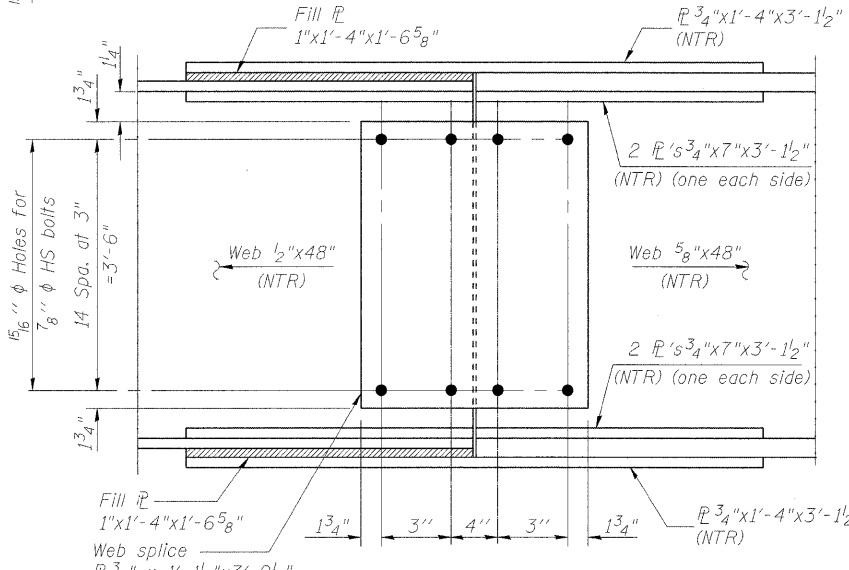


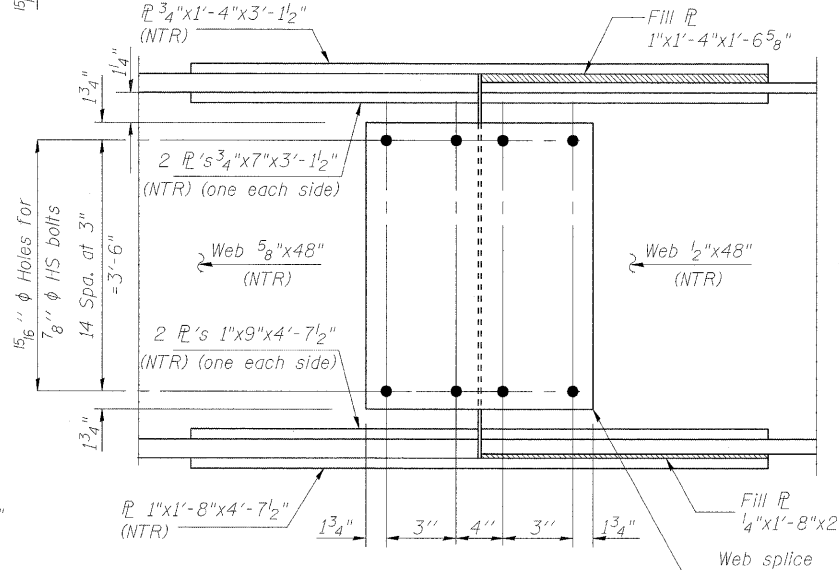
TOP FLANGE



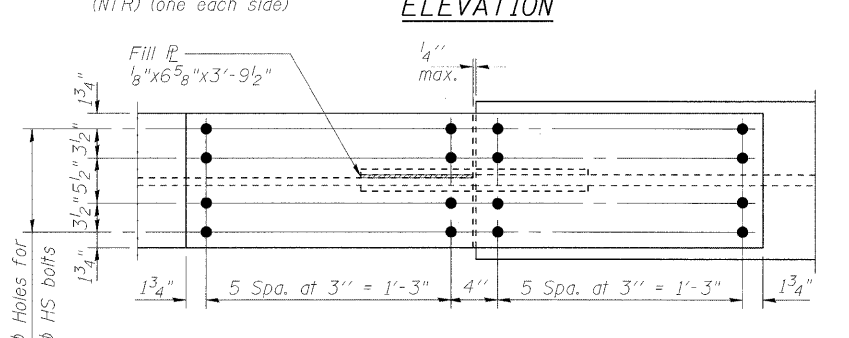
TOP FLANGE



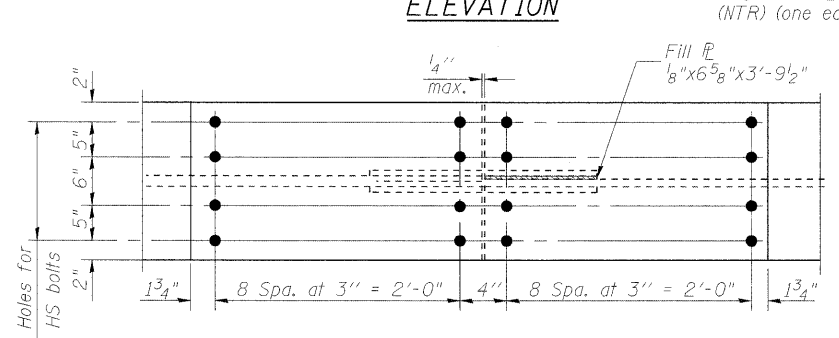
ELEVATION



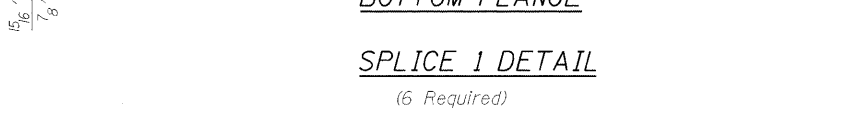
ELEVATION



BOTTOM FLANGE

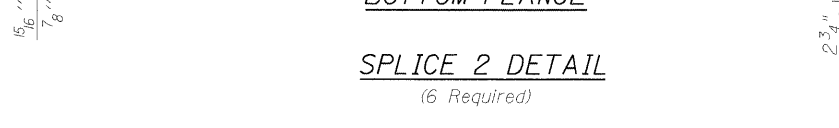


BOTTOM FLANGE



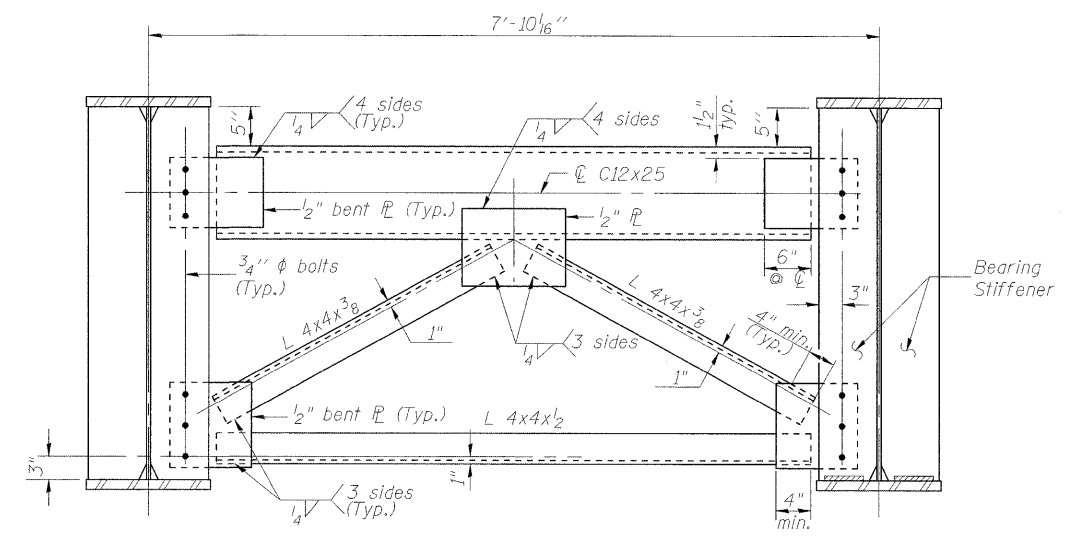
SPlice 1 DETAIL

(6 Required)



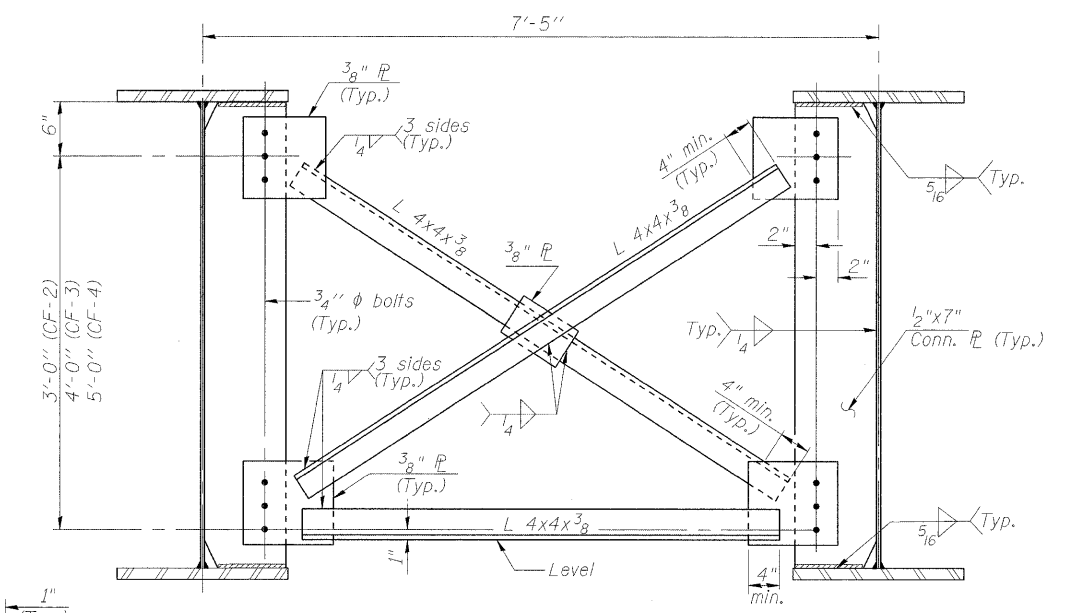
SPlice 2 DETAIL

(6 Required)



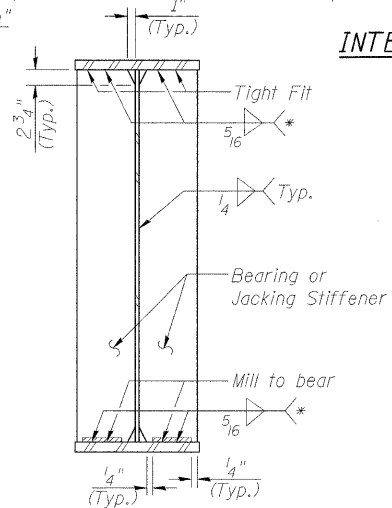
END CROSS FRAME CF-1

(10 Required)



INTERIOR CROSS FRAME CF-2 THRU CF-4

(50 CF-2, 10 CF-3 & 5 CF-4 Required)



BEARING AND JACKING STIFFENER DETAILS

NOTES:

1. Structural steel for flange and web splice plates shall be AASHTO M 270 Grade 50. The structural steel for cross frames, connection plates and stiffeners shall be AASHTO M 270 Grade 36.
2. ASTM A36, A572, Grade 42 or Grade 50, or A529 may be used for the web fill plates.
3. Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
4. Detail 15/16 inch diameter holes for all 3/4 inch diameter bolts.
5. Two hardened washers required for each set of oversized holes.
6. Place diaphragm with channel flanges and outstanding angle legs outward from abutment backwall and any other expansion joint.
7. All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

FILE NAME = 082-0378-76C55-S20-CrossFrame.dgn	USER NAME = hej	DESIGNED - JXH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL DETAILS - II EXCHANGE AVENUE OVER I-55 /70 (S.N. 082-0378)	F.A.I. RTE. 70	SECTION 82-1-1HB	COUNTY ST. CLAIR	TOTAL SHEETS 236	SHEET NO. 179
PLOT SCALE = 0=1" / 16'	DRAWN - JHR	CHECKED - CHY	REVISOR -			CONTRACT NO. 76C55				
PLOT DATE = 11/11/2004	DATE - 10-09-09	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT				
						SCALE: SHEET NO. S-20 OF S-37 SHEETS	STA. TO STA.			