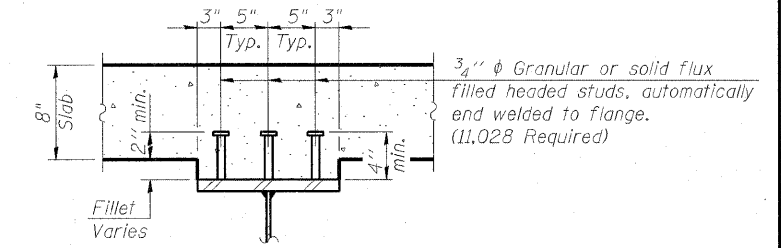


Baseline 70E55N No studs on splices: Shift studs 1/2 each way & cut adjacent space in half.

SHEAR CONNECTOR SPACING TABLE						
Location	1	2	3	4	5	6
Girder 1	6 Spaces @ 11" = 5'-6"	228 Spaces @ 12" = 228'-0"	24 Spaces @ 10" = 20'-0"	226 Spaces @ 12" = 226'-0"	6 Spaces @ 11" = 5'-6"	1 Space @ 7"
Girder 2	6 Spaces @ 11" = 5'-6"	228 Spaces @ 12" = 228'-0"	24 Spaces @ 10" = 20'-0"	226 Spaces @ 12" = 226'-0"	8 Spaces @ 11" = 7'-4"	
Girder 3				198 Spaces @ 12" = 198'-0"	5 Spaces @ 11" = 4'-7"	2 Spaces @ 7" = 1'-2"
Girder 4	6 Spaces @ 11" = 5'-6"	229 Spaces @ 12" = 229'-0"	24 Spaces @ 10" = 20'-0"	227 Spaces @ 12" = 227'-0"	7 Spaces @ 11" = 6'-5"	
Girder 5	6 Spaces @ 11" = 5'-6"	229 Spaces @ 12" = 229'-0"	24 Spaces @ 10" = 20'-0"	229 Spaces @ 12" = 229'-0"	5 Spaces @ 11" = 4'-7"	2 Spaces @ 7" = 1'-2"
Girder 6	6 Spaces @ 11" = 5'-6"	229 Spaces @ 12" = 229'-0"	24 Spaces @ 10" = 20'-0"	230 Spaces @ 12" = 230'-0"	6 Spaces @ 11" = 5'-6"	1 Space @ 7"
Girder 7	6 Spaces @ 11" = 5'-6"	230 Spaces @ 12" = 230'-0"	24 Spaces @ 10" = 20'-0"	230 Spaces @ 12" = 230'-0"	7 Spaces @ 11" = 6'-5"	
Girder 8	6 Spaces @ 11" = 5'-6"	230 Spaces @ 12" = 230'-0"	24 Spaces @ 10" = 20'-0"	232 Spaces @ 12" = 232'-0"	5 Spaces @ 11" = 4'-7"	2 Spaces @ 7" = 1'-2"



SECTION A-A

Baseline 70E55N

GIRDER DIMENSIONS										
Location	Tangent	Curved								Length of Girder
	CL. Brg W. Abut. to PC	Radius	A	B	C	D	E	F	G	
Girder 1	11.503	2,953.917	96.488	40.103	39.678	110.656	40.100	39.681	107.386	487.263
Girder 2	11.503	2,962.917	96.782	39.988	40.036	110.993	39.989	40.036	107.483	488.477
Girder 3		2,969.317						55.876	40.289	107.551
Girder 4	89.576	2,954.083	18.874	39.893	39.893	111.701	39.893	39.893	108.210	489.599
Girder 5	89.576	2,963.083	18.931	40.015	40.015	112.041	40.015	40.015	108.540	490.813
Girder 6	89.576	2,972.083	18.989	40.136	40.136	112.381	40.136	40.136	108.869	492.027
Girder 7	89.576	2,981.083	19.046	40.258	40.258	112.722	40.258	40.258	109.199	493.240
Girder 8	89.576	2,990.083	19.104	40.379	40.379	113.062	40.379	40.379	109.529	494.454

Local Tangent to Baseline 70E55N at Sta. 58+07.32

GIRDER LAYOUT DIMENSIONS																
Location	CL. Brg. W. Abut		Field Splice 1		Pier 1		Field Splice 2A		Field Splice 2B		Pier 2		Field Splice 3		Cl. Brg. Pier 3	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
Girder 1	-604.204	-81.404	-497.628	-64.016	-457.900	-58.545	-418.524	-53.663	-308.405	-42.846	-268.409	-39.946	-228.797	-37.611	-121.479	-33.961
Girder 2	-605.783	-72.543	-498.917	-55.109	-459.303	-49.652	-419.571	-44.724	-309.116	-33.875	-269.233	-30.981	-229.267	-28.623	-121.852	-24.966
Girder 3					Begin Girder 3 =		-325.536	-28.800	-309.623	-27.495	-269.819	-24.605	-229.600	-22.231	-122.117	-18.569
Girder 4	-606.339	-69.426	-499.560	-50.463	-460.197	-43.982	-420.750	-38.034	-309.914	-24.218	-270.214	-20.301	-230.465	-16.920	-122.454	-10.456
Girder 5	-607.917	-60.565	-501.082	-41.593	-461.599	-35.092	-422.032	-29.126	-310.858	-15.268	-271.037	-11.339	-231.167	-7.948	-122.827	-1.464
Girder 6	-609.496	-51.705	-502.604	-32.722	-463.001	-26.202	-423.314	-20.217	-311.802	-6.318	-271.860	-2.377	-231.869	1.025	-123.200	7.529
Girder 7	-611.074	-42.844	-504.126	-23.852	-464.403	-17.312	-424.596	-11.309	-312.747	2.633	-272.684	6.586	-232.571	9.997	-123.573	16.521
Girder 8	-612.653	-33.984	-505.648	-14.981	-465.805	-8.422	-425.878	-2.401	-313.691	11.583	-273.507	15.548	-233.273	18.970	-123.946	25.513

	USER NAME =	DESIGNED - P.J.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL DETAILS - UNIT 1 - I I-70E OVER I-55, CSX & KCS RAILROADS	F.A.I. RTE. 70	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 227
	PLOT SCALE = 0/2" = 1' / IN.	CHECKED - CHY	REVISED -			S.N. 082-0322 & S.N. 082-0324	CONTRACT NO. 76C76			
	PLOT DATE = 6/30/2011	DATE - 07-01-11	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
	SCALE: SHEET S-100 OF S-234 SHEETS		STA. TO STA.							