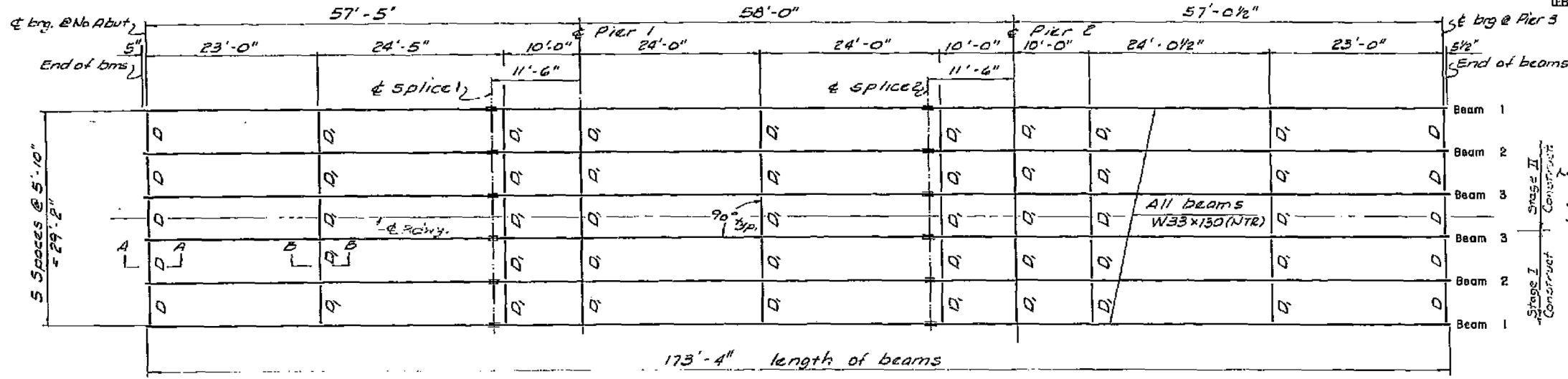


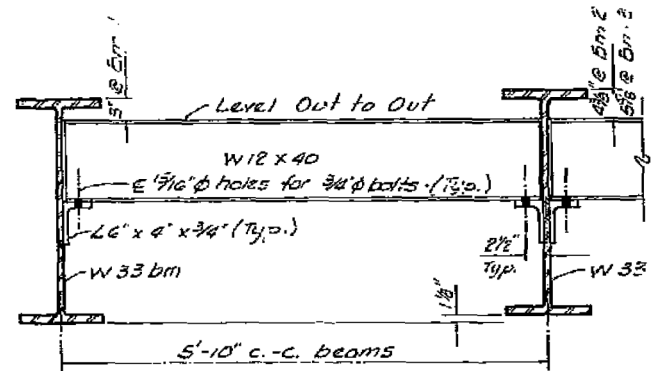
028-0034

Route	Section	County	Total	Sheet
028-01	11B-1 DR	Franklin	27	19
Station 255+66.90				
FHWA Rep # Illinois PROJ. BY 05-03K01				

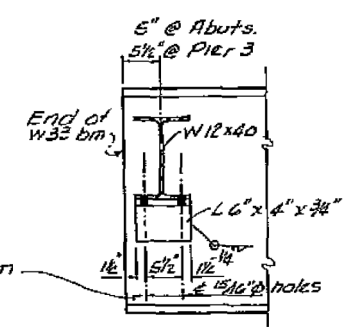


FRAMING PLAN
North Unit

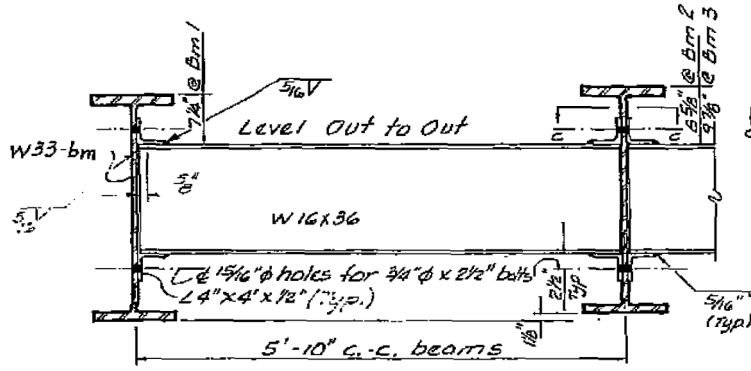
NOTE: Structural shapes and plates designated (NTR) shall meet the supplemental requirements for temperate zone 2.



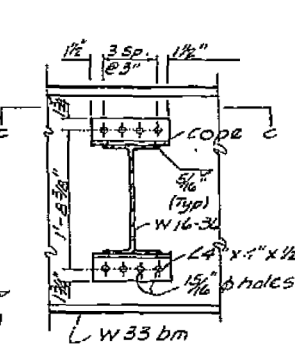
DIAPHRAGM - O
10 req. No. Unit.
10 req. 50. Unit.



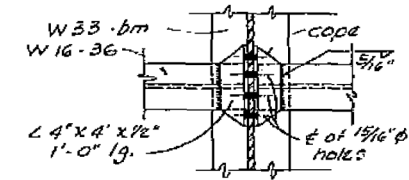
SECTION A-A



DIAPHRAGM - D
40 req. No. Unit
45 req. 50. Unit



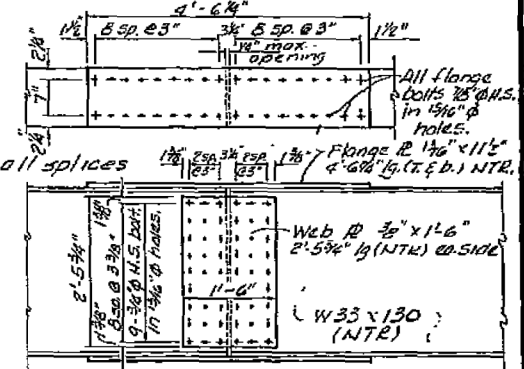
SECTION B-B



SECTION C-C

DESIGN DATA TABLE - NO. UNIT			
Beam Properties			
	@ 4 pt Sp. 1 or 3	Pier 2 @ supp.	@ 5 pt Sp. 2
Moment of Inertia (in ⁴)	6710	6710	6710
Section Modulus (in ³)	406	406	406
Plastic Modulus (in ³)	467	467	467
Interior Beam Moment Table			
Dead Load (K-ft)	0.876	0.876	0.876
Dead Load Moment (K-ft)	237.0	296.2	74.1
4+I Moment (K-ft)	406.5	293.8	325.7
f_s for max design M (Ksi)	35.1	30.2	23.7
f_s allowable for max. des. M (Ksi)	36.0	36.0	36.0
f_s for overload (Ksi)	27.0	23.2	18.2
f_s allowable for overload (Ksi)	28.8	28.0	23.8
Interior Bm. Reaction		NABE P-3	@ Piers 1 & 2
Total Reaction (K)	60.1		106.3
Reaction for dead load (K)	21.2		60.8
Reaction for 4+I (K)	30.5		33.7
Reaction for Impact (K)	8.4		9.8

* f_s max design includes the Load Factors: $1.3(Q + SD + S_3(L+I))$
 ** f_s overload includes the Load Factors: $(Q + SD + S_3(L+I))$



BEAM SPLICE DETAIL

TABLE OF BEAM ELEVATIONS (FOR FABRICATION ONLY)											
@ 4 brg. N. Abut		@ 4 splice. Sp. 1		@ 4 brg. Pier 1		@ 4 splice. Sp. 2		@ 4 brg. Pier 2		@ 4 brg. N. Unit - Pier 3	
elev. Top of slab	elev. Top of beam	elev. Top of slab	elev. Top of beam	elev. Top of slab	elev. Top of beam	elev. Top of slab	elev. Top of beam	elev. Top of slab	elev. Top of beam	elev. Top of slab	elev. Top of beam
@ Beam 1	389.58	388.71	389.94	389.20	390.05	389.30	390.42	389.68	390.48	389.73	389.99
@ Beam 2	389.49	388.63	390.05	389.32	390.17	389.41	390.53	389.80	390.60	389.85	390.11
@ Beam 3	389.59	388.93	390.15	389.42	390.27	389.51	390.63	389.90	390.70	389.95	390.21

FRAMING PLAN - NO. UNIT

PROJECT BH-05-055(18)
 RTE. 581, Rte 37
 SECTION 11 B - 1 - DR over
 Middle Fork of Big Muddy R.
 COUNTY Franklin
 STATION 255+66.90

FOR INFORMATION ONLY