

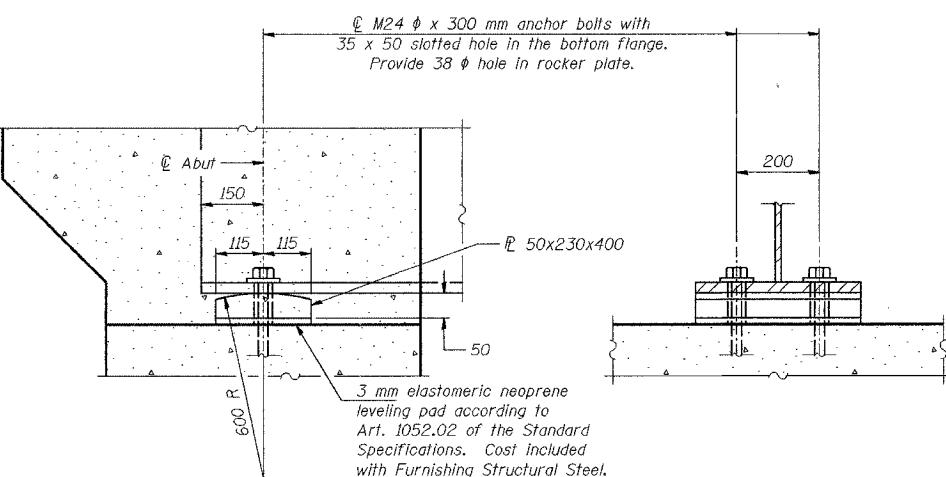
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SPREAD SHEET NO.
F.A.I. 80/94	2004-133P	LAKE COUNTY, INDIANA	90	88

28 SHEETS

CONTRACT NO. 62898 INDOT DES. NO. 9910630

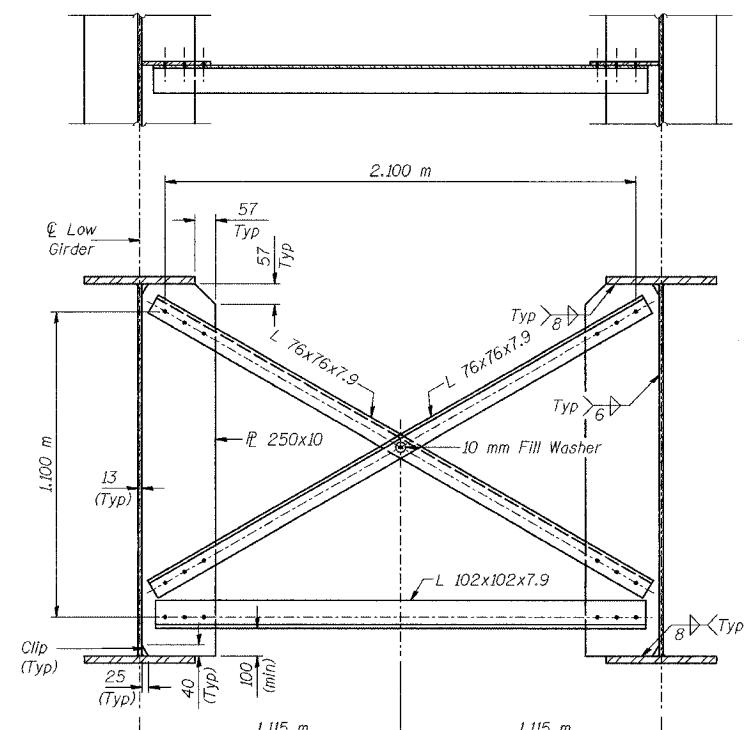
INTERIOR BEAM MOMENT TABLE

0.5 Span	
I_s (10^6 mm^4)	16510
$I_c (n)$ (10^6 mm^4)	31120
$I_c (3n)$ (10^6 mm^4)	23385
S_s (10^3 mm^3)	24988
$S_c (n)$ (10^3 mm^3)	30161
$S_c (3n)$ (10^3 mm^3)	27985
Z (10^3 mm^3)	
\bar{Q} (kN/m)	15.06
M_d ($\text{kN}\cdot\text{m}$)	2440
s_d (kN/m)	11.42
M_s ($\text{kN}\cdot\text{m}$)	1851
M_L ($\text{kN}\cdot\text{m}$)	2128
M_{Imp} ($\text{kN}\cdot\text{m}$)	438
$S_3(M_d + M_{Imp})$ ($\text{kN}\cdot\text{m}$)	4276
M_a ($\text{kN}\cdot\text{m}$)	11137
M_u ($\text{kN}\cdot\text{m}$)	12258
$f_s \bar{Q}_{non-comp}$ (MPa)	98
$f_s \bar{Q}_{comp}$ (MPa)	66
$f_s^5 (L + Imp)$ (MPa)	142
f_s (Overload) (MPa)	306
f_s (Total) (MPa)	
VR (kN)	216



INTEGRAL ABUTMENT ROCKER PLATE

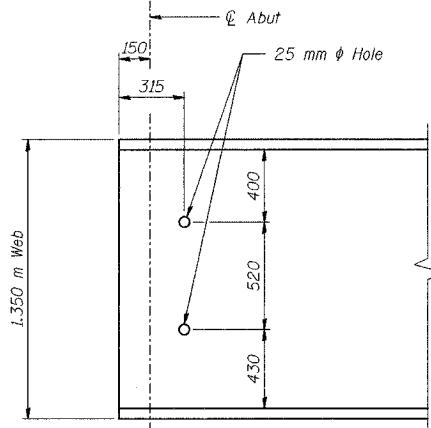
48 Required



INTERIOR CROSS FRAME CF

132 Required

Note: Assemble Cross Frame at Stage Construction Line after closure pour. Field drill holes in Girder 18 stiffeners on the side of Stage Construction Joint only.



END OF GIRDER ELEVATION

DESIGNED	BHS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

NOTES:

All open holes shall be 28 mm ϕ for M22 HS bolts

All dimensions are in millimeters (mm) except as noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (BORMAN EXPRESSWAY) OVER HARRISON AVENUE
FRAMING DETAILS SECTION 2004-133F
LAKE COUNTY, INDIANA
STATION 8 + 754.874
STRUCTURE NO. I-80-1-8461 (EB & WB)
DATE 05/05 (016-1005 & 016-1006)

AMERICAN
CONSULTING ENGINEERS