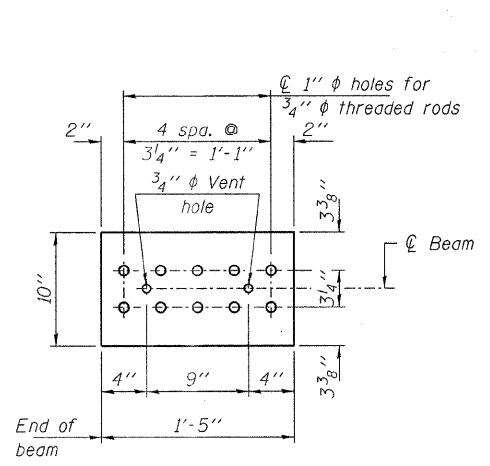


PLAN

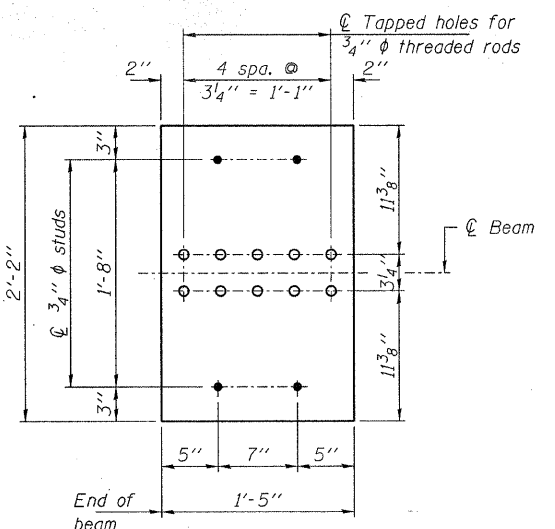
INTERIOR BEAM MOMENT TABLE	
	0.5 Span
I	(in ⁴) 392,638
I'	(in ⁴) 750,695
S_b	(in ³) 12,224
S_b'	(in ³) 16,174
S_t	(in ³) 12,715
S_t'	(in ³) 45,253
$DC1$	(k/ft.) 1.484
M_{DC1}	(k) 1,794
$DC2$	(k/ft.) 0.180
M_{DC2}	(k) 218
DW	(k/ft.) 0.338
M_{DW}	(k) 408
M_{L+IM}	(k) 1,717

INTERIOR BEAM REACTION TABLE	
	Abut.
R_{DC1}	(k) 73.0
R_{DC2}	(k) 8.9
R_{DW}	(k) 16.6
R_{L+IM}	(k) 92.0
R (Total)	(k) 190.5

DESIGNED - S.M.S.
 CHECKED - M.D.C.
 DRAWN - D.A.B.
 CHECKED - S.W.M.



TOP PLATE

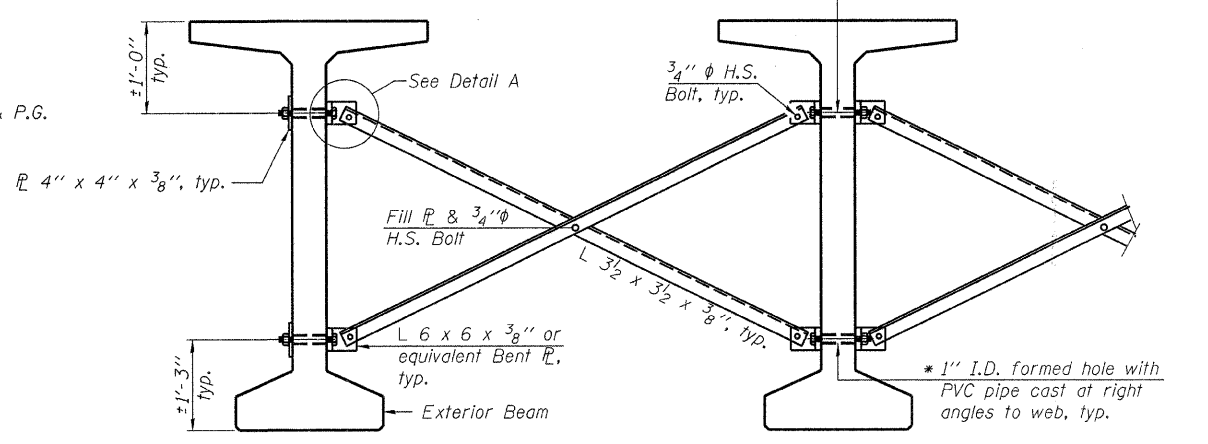


BOTTOM PLATE

See bearing details for pintle hole locations when required.

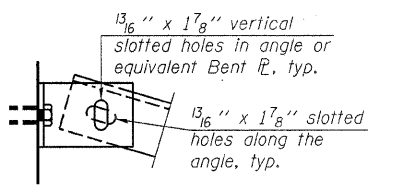
- I Non-composite moment of inertia of beam section (in⁴).
- I' Composite moment of inertia of beam section (in⁴).
- S_b Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b' Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t' Composite section modulus for the top fiber of the prestressed beam (in³).
- $DC1$ Un-factored non-composite dead load (kips/ft).
- M_{DC1} Un-factored moment due to non-composite dead load (kip-ft).
- $DC2$ Un-factored long-term composite (Superimposed excluding future wearing surface) dead load (kips/ft).
- M_{DC2} Un-factored moment due to long-term composite (Superimposed excluding future wearing surface) dead load (kips/ft).
- DW Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft).
- M_{DW} Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
- M_{L+IM} Un-factored live load moment plus dynamic load allowance (impact) (kip-ft).

* Fabricator shall locate to miss strands within permissible tolerances.

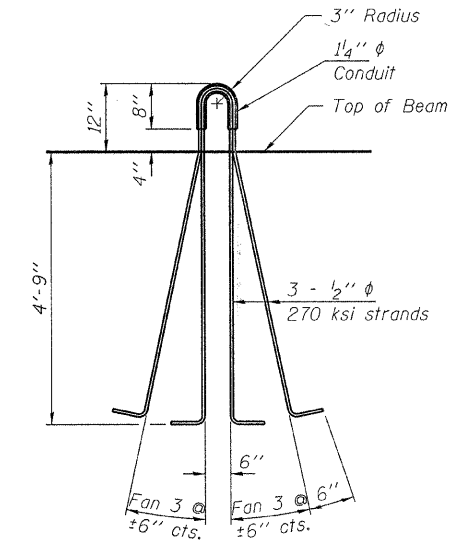


NOTES:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes.
 All holes shall be 1/16" unless otherwise noted.
 5/16" x 3" x 3" plate washers are required over all slotted holes.
 All bolts shall be galvanized according to AASHTO M232.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 The cost of the Permanent Bracing shall be included in the cost of Furnishing and Erecting P.P.C. Bulb-T Beams 63".

PERMANENT BRACING DETAILS FOR BULB-T BEAMS



DETAIL A



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Foot	500

**FRAMING PLAN & BEAM DETAILS
 STRUCTURE NO. 102 - 3210**

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 07.0379.130 DATE: 02/02/09	SHEET NO. 10 16 SHEETS	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		50	05-08145-00-BR	WOODFORD	47	38
METAMORA ROAD DISTRICT			CONTRACT NO. 89448			
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT		