

- I: Non-composite moment of inertia of beam section (in.⁴).
- I': Composite moment of inertia of beam section (in.⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
- St: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
- St': Composite section modulus for the top fiber of the prestressed beam (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.). M_{DCI}: 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.). MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead
- load (kip-ft.), DW: Un-factored long-term composite (superimposed future
- wearing surface only) dead load (kips/ft.). Mow: Un-factored moment due to long-term composite
- (superimposed future wearing surface only) dead load (kin-ft).
- M4 + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

PLOT SCALE =

PLOT DATE =



INTERIOR	BEAM MOME	ENT TABLE
		0.5 Span
Ι	(in4)	545,894
I'	(in4)	1,003,015
Sb	(in 3)	14,915.0
Sb'	(in ³)	19,558.5
St	(in ³)	15,421.0
St'	(in ³)	48,414.9
DC1	(k/′)	1.50
MdCi	('k)	2,700
DC2	(k/')	0.15
M DC2	('k)	270
DW	(k/′)	0.30
MDW	('k)	540
M4 + IM	('k)	2,160.0

	INTERIOR BEAM REACTION TABLE		
			Abuta
			ADUIS.
*	R DC1	(k)	136.0
	R DC2	(k)	9.0
	Row	(k)	18.0
*	R Ł + IM	(k)	115.6
*	R Total	(k)	278.6

REVISED

REVISED

REVISED

REVISED

DESIGNED - CMW

SAL

TJW

SAL

CHECKED -

CHECKED -

DRAWN

* The total R_{DC1}, R₄ + _{IM} and R_{Total} include Reaction from Approach Slab.

- according to AASHTO Mill unless otherwise noted. Two hardened washers are required for each set of oversized holes. All holes shall be ${}^{15}_{16}$ '' ϕ 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.

All material for bracing shall be hot dip galvanized

Notes:

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams.





****** Fabricator shall locate to miss strands within permissible tolerances.