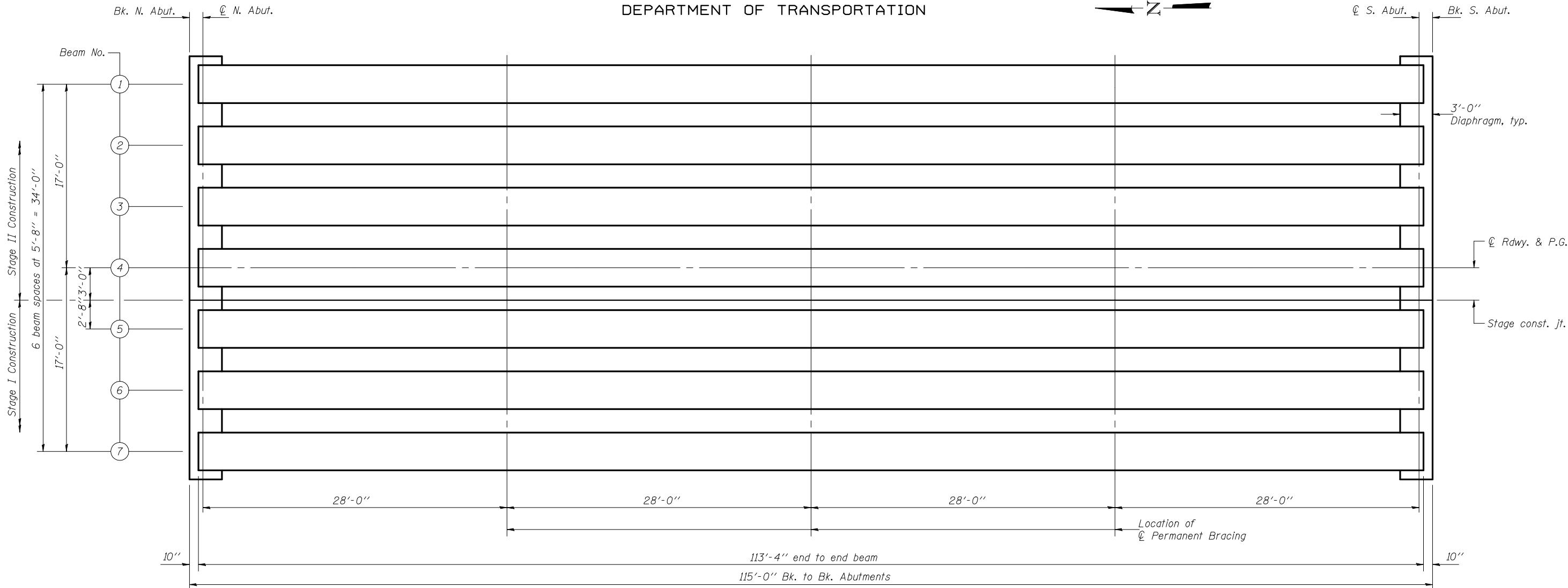


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

INTERIOR BEAM MOMENT TABLE	
	0.5 Span
I	(in ⁴) 392638
I'	(in ⁴) 699473
S _b	(in ³) 12224
S _{b'}	(in ³) 15765
S _t	(in ³) 12715
S _{t'}	(in ³) 37546
DC1	(kip) 1.392
M _{DC1}	(kip) 2183
DC2	(kip) 0.129
M _{DC2}	(kip) 202
DW	(kip) 0.283
M _{DW}	(kip) 444
M _{L + IM}	(kip) 1785

INTERIOR BEAM REACTION TABLE	
	Abut.
R _{DC1}	(kip) 78.0
R _{DC2}	(kip) 7.2
R _{DW}	(kip) 15.8
R _{L + IM}	(kip) 79.9
R _{Total}	(kip) 180.9

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CHECKED Stephen M. Ryan
DRAWN h.t. duong
PASSED Ralph E. Anderson
CHECKED FT/SMR

November 24, 2010

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).
S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
S_{t'}: Composite section modulus for the top fiber of the prestressed beam (in.³).
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 (kip-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.).

Note: For permanent bracing details, see sheets 17 of 23.

FRAMING PLAN
STRUCTURE NO. 034-0522

SHEET NO. 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	506	123B-1	HANCOCK	49	70
					CONTRACT NO. 72992
			ILLINOIS	FED. AID PROJECT	