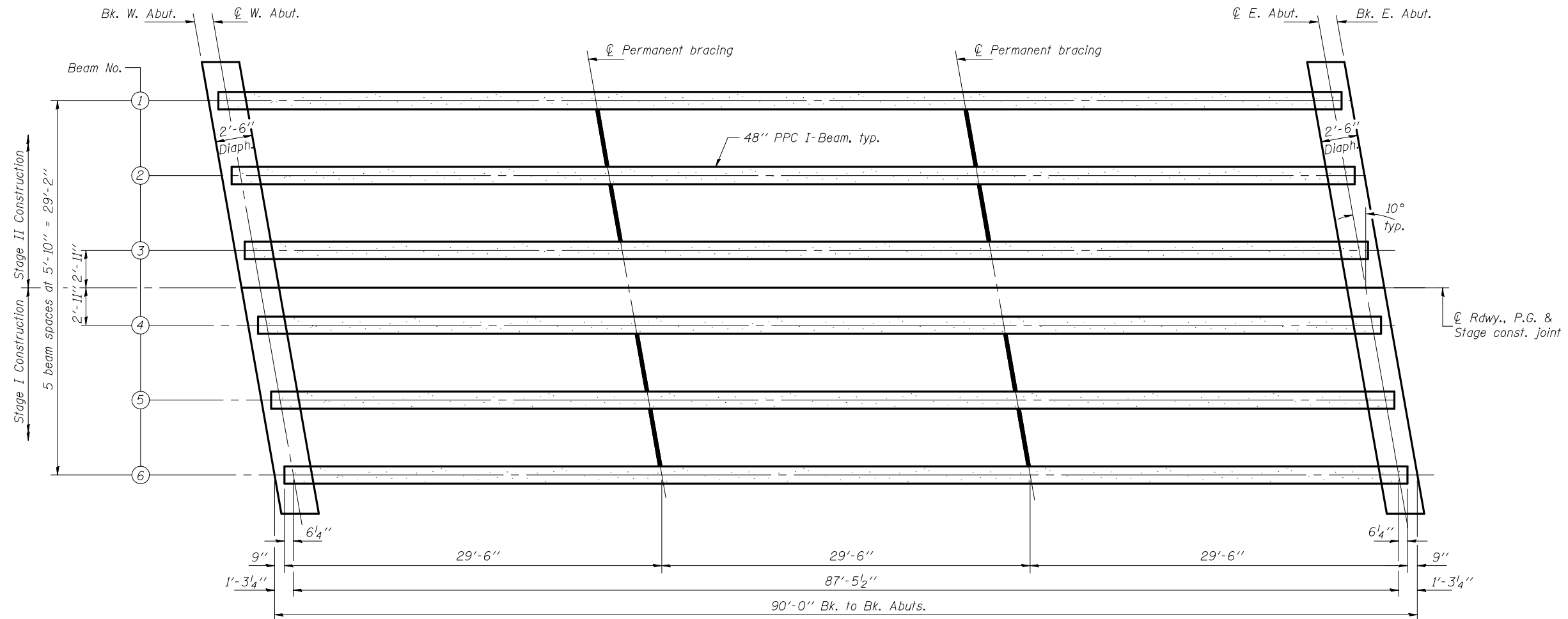


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FRAMING PLAN

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I	(in ⁴)	144117.1
I'	(in ⁴)	369987
S_b	(in ³)	6834.1
S_b'	(in ³)	10950
S_t	(in ³)	5355.1
S_t'	(in ³)	26037
$DC1$	(k/')	1.197
M_{DC1}	(k)	1145
$DC2$	(k/')	0.150
M_{DC2}	(k)	143
DW	(k/')	0.292
M_{DW}	(k)	279
$M_{\Sigma} + IM$	(k)	1290

INTERIOR BEAM REACTION TABLE		
		Abut.
R_{DC1}	(k)	52.3
R_{DC2}	(k)	6.6
R_{DW}	(k)	12.8
$R_{\Sigma} + IM$	(k)	77.3
R_{Total}	(k)	149.0

- 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.).
- $M_{\Sigma} + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

DESIGNED Philip E. Coppernoll
CHECKED Justin T. Belue
DRAWN h.t. duong
CHECKED PEC/JTB

December 6, 2010
EXAMINED Thomas J. Domagala
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

**FRAMING PLAN
STRUCTURE NO. 001-0507**

SHEET NO. 13 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	745	107B-1	ADAMS	86	47
CONTRACT NO. 72B98					
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					