



INTERIOR BEAM MOMENT TABLE	
	Midspan
I	144117
I'	468564
S_b	6834
S_b'	12240
S_t	5355
S_t'	22446
$DC1$	1.46
$MDC1$	816
$DC2$	0.23
$MDC2$	131
DW	0.37
MDW	208
$M4 + IM$	1168

INTERIOR BEAM REACTION TABLE	
	Abutments
$RDC1$	48.8
$RDC2$	7.8
RDW	12.4
$R4 + IM$	91.4
R_{Total}	160.4

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.).
 $MDC1$: 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.).
 MDW : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M4 + IM$: Un-factored live load moment plus dynamic load allowance (Imoast) (kip-ft.).

PLAN

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FILE NAME: 0452033-012-fp1.dgn	USER NAME: rjg	DESIGNED: RJT	REVISER:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN AND MOMENT TABLE IL 25/STEARNS RD EB OVER BREWSTER CREEK STRUCTURE NO. 045-2033	F.A.P. QTE: 361	SECTION: 06-00214-18-RP	COUNTY: KANE	TOTAL SHEETS: 451	SHEET NO.: 325	
	PLOT SCALE: 1" = 3'-0"	CHECKED: AJK	REVISER:			SHEET NO. 361 OF 361 SHEETS		CONTRACT NO. 63598		ILLINOIS FED. AID PROJECT	
	PLOT DATE: 12/13/2012	DRAWN: RMS	REVISER:								
		CHECKED: AJK	REVISER:								

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