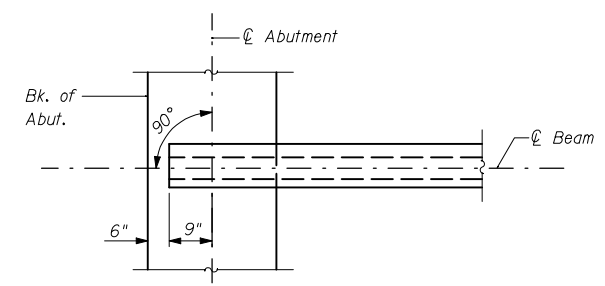


**FRAMING PLAN**

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. #1
$I$	(in <sup>4</sup> )	48648
$I'$	(in <sup>4</sup> )	162797
$S_b$	(in <sup>3</sup> )	3165
$S_b'$	(in <sup>3</sup> )	5759
$S_t$	(in <sup>3</sup> )	2358
$S_t'$	(in <sup>3</sup> )	21060
$\bar{D}$	(ft. k)	0.932
$M \bar{D}$	(ft. k)	297
$s \bar{D}$	(ft. k)	0.409
$M s \bar{D}$	(ft. k)	130
$M \bar{L}$	(ft. k)	338
$M (Imp)$	(ft. k)	96

$I$  and  $I'$  are the moment of inertia and composite moment of inertia of the beam section.  
 $S_b$  and  $S_b'$  are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.  
 $S_t$  and  $S_t'$  are the non-composite and composite section modulus for the top fiber of the prestressed beam.  
 $M \bar{D}$  is the moment due to dead loads on the non-composite prestressed beam. It is conservatively calculated at 0.5 of the span.  
 $M s \bar{D}$  is the moment due to dead loads on the composite section.  
 $M \bar{L}$  is the moment due to live load on the composite section.  
 $M (Imp)$  is the moment due to live load impact on the composite section.



**TYPICAL BEAM SEATING DETAIL**

INTERIOR BEAM REACTION TABLE		
		Abut.
$R \bar{D}$	(k)	24
$R s \bar{D}$	(k)	10
$R \bar{L}$	(k)	31
$Imp.$	(k)	9
$R (Total)$	(k)	74

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FRAMING PLAN**  
 IL. ROUTE 10 OVER UN-NAMED CREEK  
 FAP RTE. 717 SECTION 110BR  
 STA. 738+60  
 DEWITT COUNTY STR. No. 020-0061  
 SCALE: N.T.S. DRAWN BY  
 DATE MAY 2009 CHECKED BY MJS