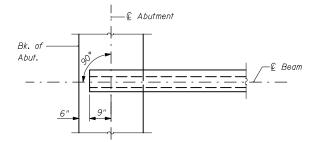
RTE.	SECTION		COUNTY	SHEETS	NO.
717	110BR		DEWITT	40	14
STA. 736+00 TO STA. 741+00					
FED. RO	FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				
	SHEET 7 OF 14 SHEETS				

CONTRACT NO. 90932



Beam No. —	€ W. Abut.	← © Structure	← Ç E. Abut.
5 Spaces at 5'.10" = 29'-2" 14'-7" Stage I Construction 9 (5) (6) (7) (8) (9) (1) (1) (1) (1) (1) (2) (3)		3000	F.A.P. Rte. 717 (IL 10), P.G.L. and Bonded Stage Const. Jt.
<u>1'-</u>	3"	50'-6" Span 1 53'-0"	<u>1'-3"</u>

FRAMING PLAN



TYPICAL BEAM SEATING DETAIL

INTERIOR BEAM MOMENT TABLE				
		0.5 Sp. #1		
I	(in ⁴)	48648		
I'	(in4)	162797		
Sb	(în³)	3165		
Sb'	(in³)	5759		
St	(in3)	2358		
S _t '	(in3)	21060		
P	(ft. k)	0.932		
м₽	(ft. k)	297		
s P	(ft. k)	0.409		
Ms₽	(ft. k)	130		
M Ł	(ft. k)	338		
M (Imp)	(ft. k)	96		

 $\it I$ and $\it I'$ are the moment of inertia and composite moment of inertia of the beam section.

the beam section.

Sb and Sb' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

St and St' are the non-composite and composite section modulus for the top fiber of the prestressed beam.

M'\mathbb{E} is the moment due to dead loads on the non-composite prestressed beam. It is conservatively calculated at 0.5 of the span.

Ms\mathbb{E} is the moment due to dead loads on the composite section.

M'\mathbb{E} 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.

INTERIOR BEAM REACTION TABLE				
		Abut.		
R₽	(k)	24		
Rs₽	(k)	10		
R Ł	(k)	31		
Imp.	(k)	9		
R (Total)	(k)	74		

DEWITT COUNTY STR. No. 020-0061

ILLINOIS DEPARTMENT OF TRANSPORTATION FRAMING PLAN

IL. ROUTE 10 OVER UN-NAMED CREEK FAP RTE. 717 SECTION 110BR STA. 738+60

SCALE: N.T.S. DATE MAY 2009 DRAWN BY