

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

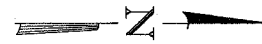
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8
FAP 609	*	ST. CLAIR	46	28	15 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. ROAD PROJECT	76268		

\* 76-3BR

		0.5 Span
Strand Pattern		30-A
I	(in <sup>4</sup> )	392,638
I'	(in <sup>4</sup> )	738,398
S <sub>b</sub>	(in <sup>3</sup> )	12,224
S <sub>b</sub> '	(in <sup>3</sup> )	16,052
S <sub>t</sub>	(in <sup>3</sup> )	12,715
S <sub>t</sub> '	(in <sup>3</sup> )	43,435
Q	(k/')	1.443
M <sub>Q</sub>	(k)	1732.3
s <sub>Q</sub>	(k/')	0.482
M <sub>sQ</sub>	(k)	578.6
M <sub>L</sub>	(k)	946.9
M (Imp)	(k)	212.1

		Abut.
R <sub>Q</sub>	(k)	113.9
R <sub>sQ</sub> *	(k)	24.8
R <sub>L</sub>	(k)	41.9
Imp.	(k)	9.4
R (Total)	(k)	190.0

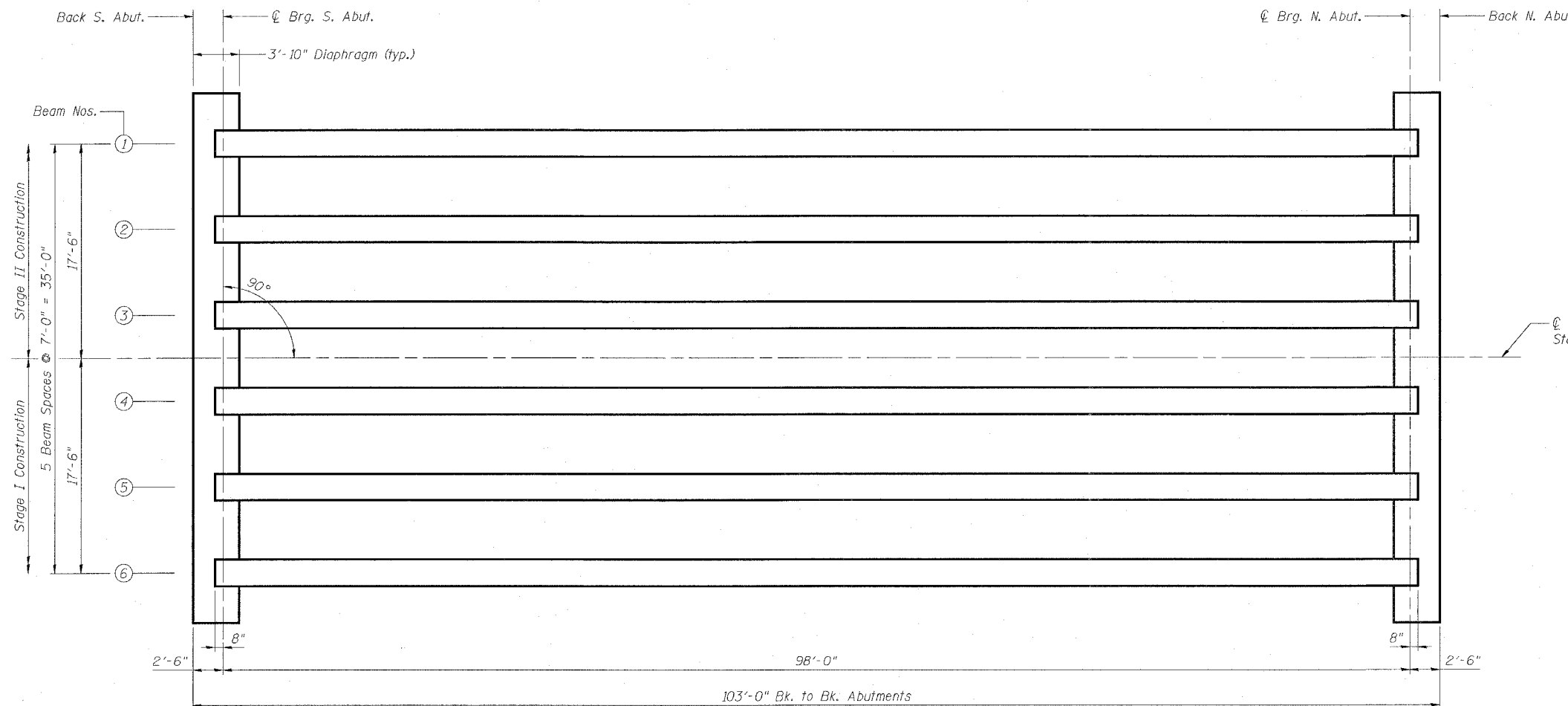
\* The dead load reaction includes an additional 3 kips/ft to account for the dead load of the approach pavement.



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

S<sub>b</sub> and S<sub>b</sub>' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

S<sub>t</sub> and S<sub>t</sub>' are the non-composite and composite section modulus for the top fiber of the prestressed beam.



FRAMING PLAN

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FRAMING PLAN**  
FAP RTE 609 (IL. 163) PRAIRIE DUPONT CR.  
SECTION 76-3BR  
ST. CLAIR COUNTY  
STA. 138+66.06  
S.N. 082-0305

SCALE: VERT. \_\_\_\_\_  
SCALE: HORIZ. \_\_\_\_\_  
DATE: 7/26/04

DRAWN BY: LANDREY  
DESIGNED BY: WATKINS  
CHECKED BY: SANFORD

COMPUTER FILE NO. SN0820305\_FRP  
PROJECT 02076  
7/7/05-MML

GREENE & BRADFORD, INC.  
OF SPRINGFIELD  
REGISTERED PROFESSIONAL ENGINEERS  
ILLINOIS LICENSE NO. 021-0000000-0000  
PROFESSIONAL DESIGN FIRM NO. 021-0000000-0000  
1015 W. 14TH ST., SPRINGFIELD, ILL. 62761-1411

FILE NAME = efiles  
PLOT SCALE = 8/30/2005  
PLOT DATE = 8/30/2005  
PLOT TIME = 8:11:58  
OPERATOR = muelhfeldoc