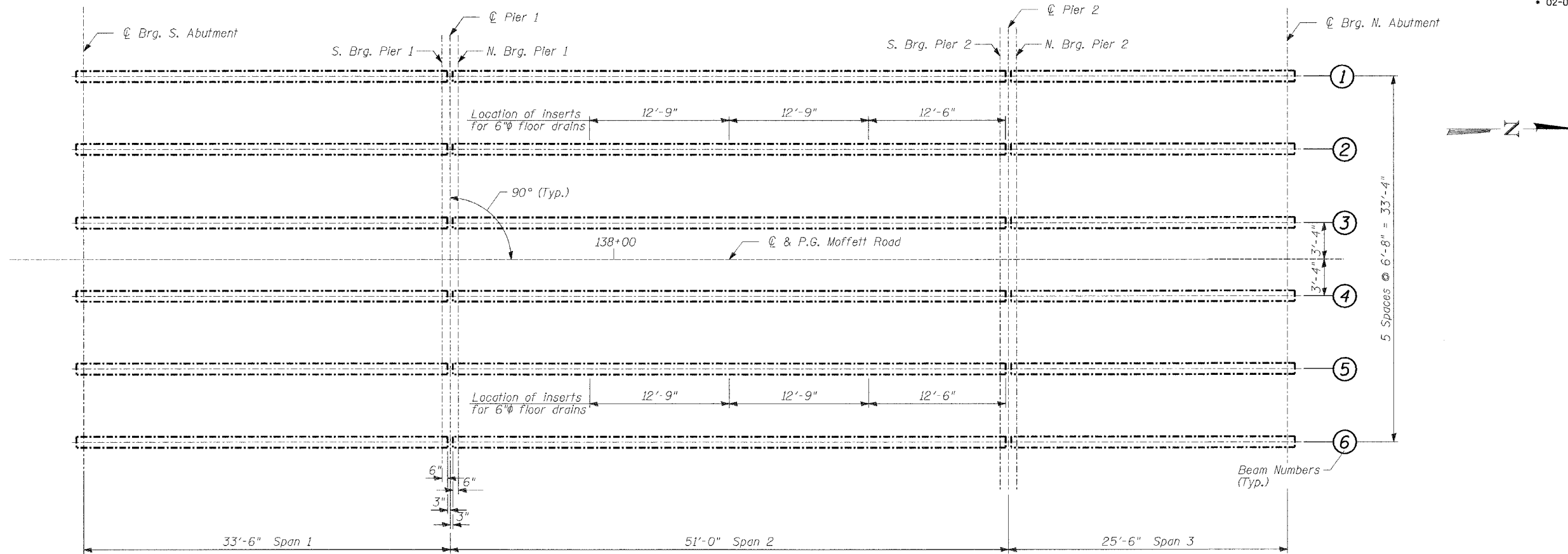


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2758	*	LAKE	40	20
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT 83790	

\* 02-00025-00-BR



PLAN

	0.4 Sp. #1	Pier 1	0.5 Sp. #2	Pier 2	0.6 Sp. #3
$I$	(in <sup>4</sup> ) 48,648		48,648		48,648
$I'$	(in <sup>4</sup> ) 167,637		167,637		167,637
$S_b$	(in <sup>3</sup> ) 3,165		3,165		3,165
$S_b'$	(in <sup>3</sup> ) 5,850		5,850		5,850
$S_t$	(in <sup>3</sup> ) 2,358		2,358		2,358
$S_t'$	(in <sup>3</sup> ) 24,556		24,556		24,556
$\bar{D}$	(k/')	1.02	1.02		1.02
$M \bar{D}$	(k)	137	332		80
$s \bar{D}$	(k/')	0.70	0.70	0.70	0.70
$M s \bar{D}$	(k)	39	137	97	123
$M \bar{L}$	(k)	170	161	223	186
$M (Imp)$	(k)	51	47	62	56
					34

	S. Abut.	Pier 1 Span 1	Pier 1 Span 2	Pier 2 Span 2	Pier 2 Span 3	N. Abut.
$R \bar{D}$	(k) 17.1	17.1	26.0	26.0	13.0	13.0
$R s \bar{D}$	(k) 7.6	17.0	17.0	15.6	15.6	4.1
$R \bar{L}$	(k) 29.9	20.2	20.2	20.6	20.6	26.7
$Imp.$	(k) 8.9	4.8	4.8	5.1	5.1	8.0
$R (Total)$	(k) 63.5	59.1	68.0	67.3	54.3	51.8

$I$  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.

**NOTES:**  
See Sheets 11 to 13 for Beam details.

TYLIN INTERNATIONAL

DESIGNED	- DE
CHECKED	- SP
DRAWN	- DE
CHECKED	- PF

DATE: 01-28-2005

FRAMING PLAN

MOFFETT ROAD OVER  
DRAINAGE RAVINE  
FAU 2758  
LAKE COUNTY  
S.N. 049-6803