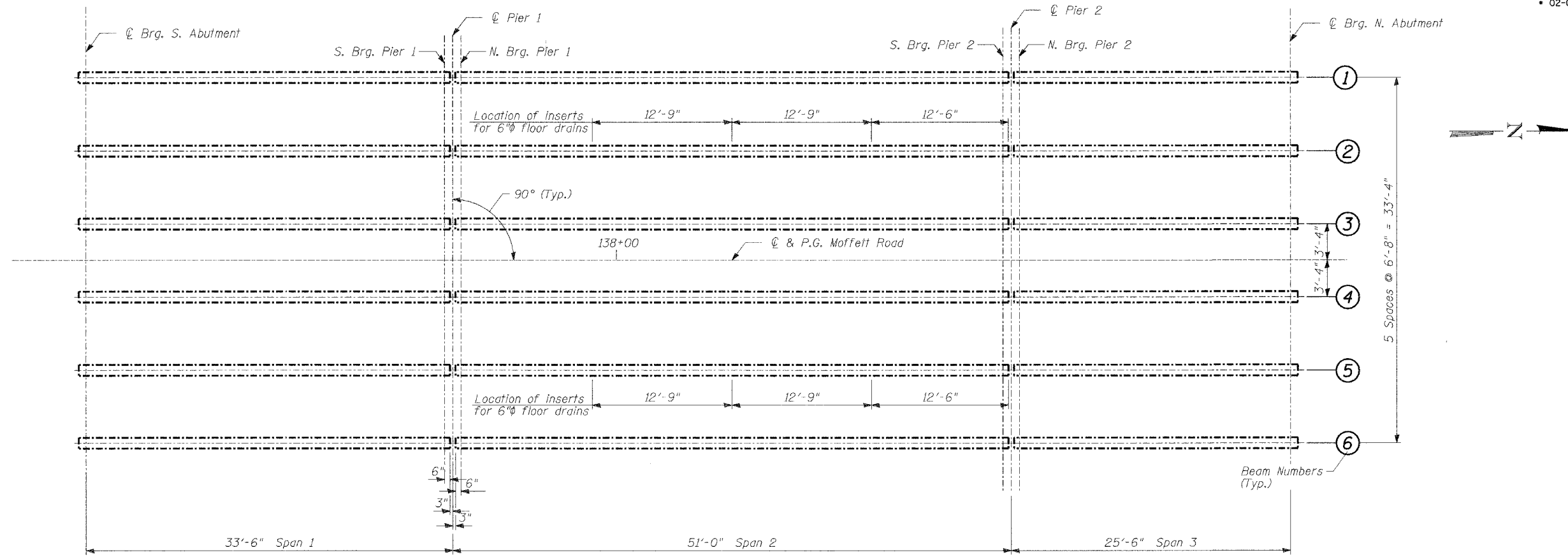


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. - 10
2758	*	LAKE	40	20	30 - SHEETS
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 ⁴)	48,648		48,648		48,648
I'	(in ⁴)	167,637		167,637		167,637
S_b	(in ³)	3,165		3,165		3,165
S_b'	(in ³)	5,850		5,850		5,850
S_t	(in ³)	2,358		2,358		2,358
S_t'	(in ³)	24,556		24,556		24,556
D	(k/')	1.02		1.02		1.02
M_D	(k)	137		332		80
s_D	(k/')	0.70	0.70	0.70	0.70	0.70
M_{sD}	(k)	39	137	97	123	5
M_L	(k)	170	161	223	186	114
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_D	(k)	17.1	17.1	26.0	26.0	13.0	13.0
R_{sD}	(k)	7.6	17.0	17.0	15.6	15.6	4.1
R_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