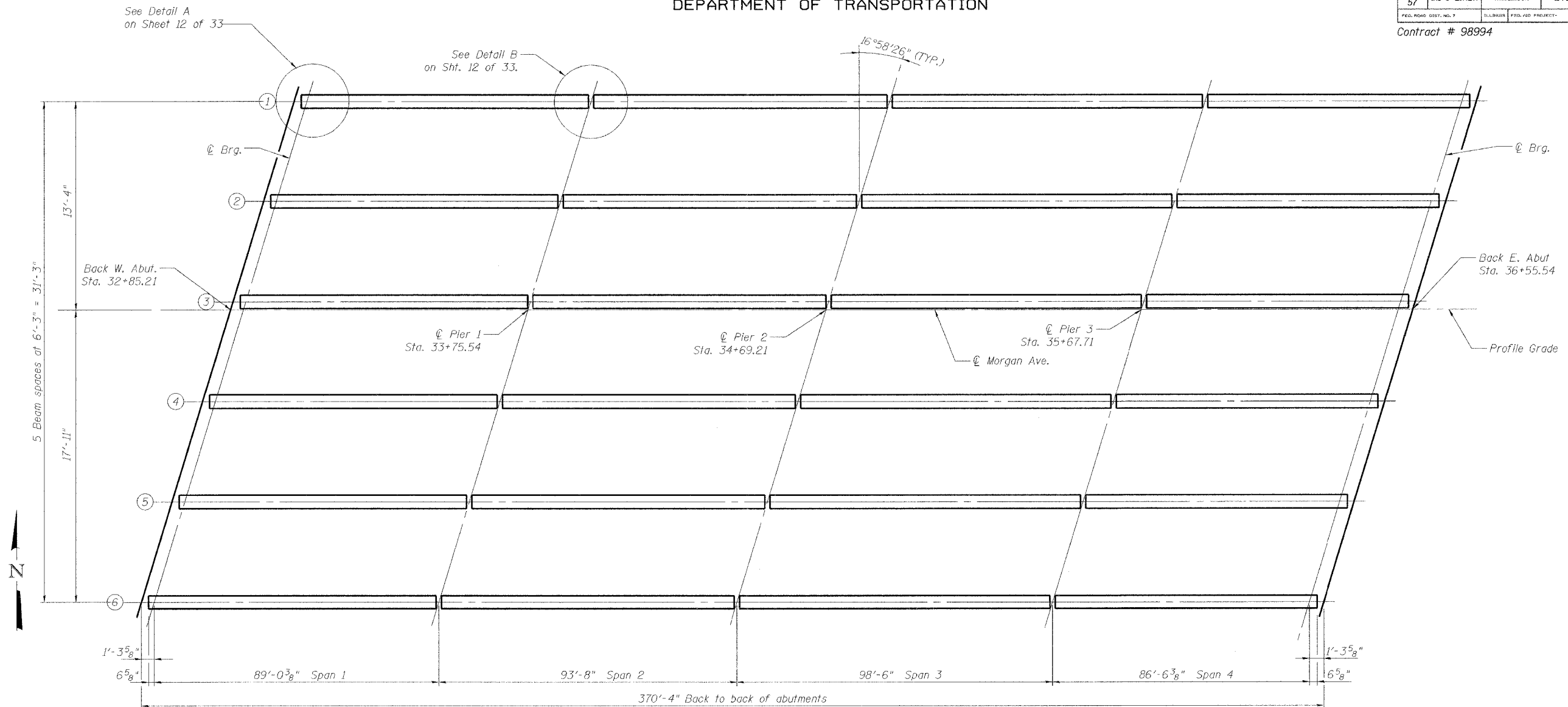


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATES	SHEET	SHEET NO. 16 33 SHEETS
FAI 57	(X1-6-2)HBK	Williamson	272	151	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract # 98994



GENERAL PLAN

	.4 Span 1	.5 Span 2	.5 Span 3	.6 Span 4	Pier 1	Pier 2	Pier 3
I (in^4)	213,715	213,715	213,715	213,715			
I' (in^4)	492,012	492,012	492,012	492,012			
S_b (in^3)	8559	8559	8559	8559			
S_b' (in^3)	12,761	12,761	12,761	12,761			
S_t (in^3)	7362	7362	7362	7362			
S_t' (in^3)	32,433	32,433	32,433	32,433			
Q ($k/'$)	1.24	1.24	1.24	1.24			
M_p (k)	1179	1360	1504	1114			
s_p ($k/'$)	.503	.503	.503	.503	.503	.503	.503
M_{sp} (k)	305.2	154.6	205.1	272.4	433.1	361.0	448.8
M_t (k)	602.5	517.9	541.6	586.2	531.1	524.4	538.7
M (Imp) (k)	138.6	119.1	119.2	140.7	122.2	120.6	123.9

	W. Abut.	Pier 1		Pier 2		Pier 3		E. Abut.
		Span 1	Span 2	Span 2	Span 3	Span 3	Span 4	
R_p (k)	55.2	55.2	58.1	58.1	61.1	61.1	53.6	53.6
R_{sp} (k)	17.5	25.8	25.8	23.3	23.3	26.3	26.3	16.6
R_t (k)	35.5	26.0	26.0	25.7	25.7	26.1	26.1	35.4
Imp. (k)	8.2	6.0	6.0	5.9	5.9	6.0	6.0	8.5
R (Total) (k)	116.4	113.0	115.9	113.0	116.0	119.5	112.0	114.1

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.

FRAMING PLAN
MORGAN AVE. OVER I-57
FAI ROUTE 57 - SECTION (X1-6-2)HBK
WILLIAMSON COUNTY
STATION 34+69.21
STRUCTURE NO. 100-0092

THOUVENOT, WADE & MOERCHEN, INC.



DESIGNED	ALN
CHECKED	BWP
DRAWN	KPF
CHECKED	ALN/BWP