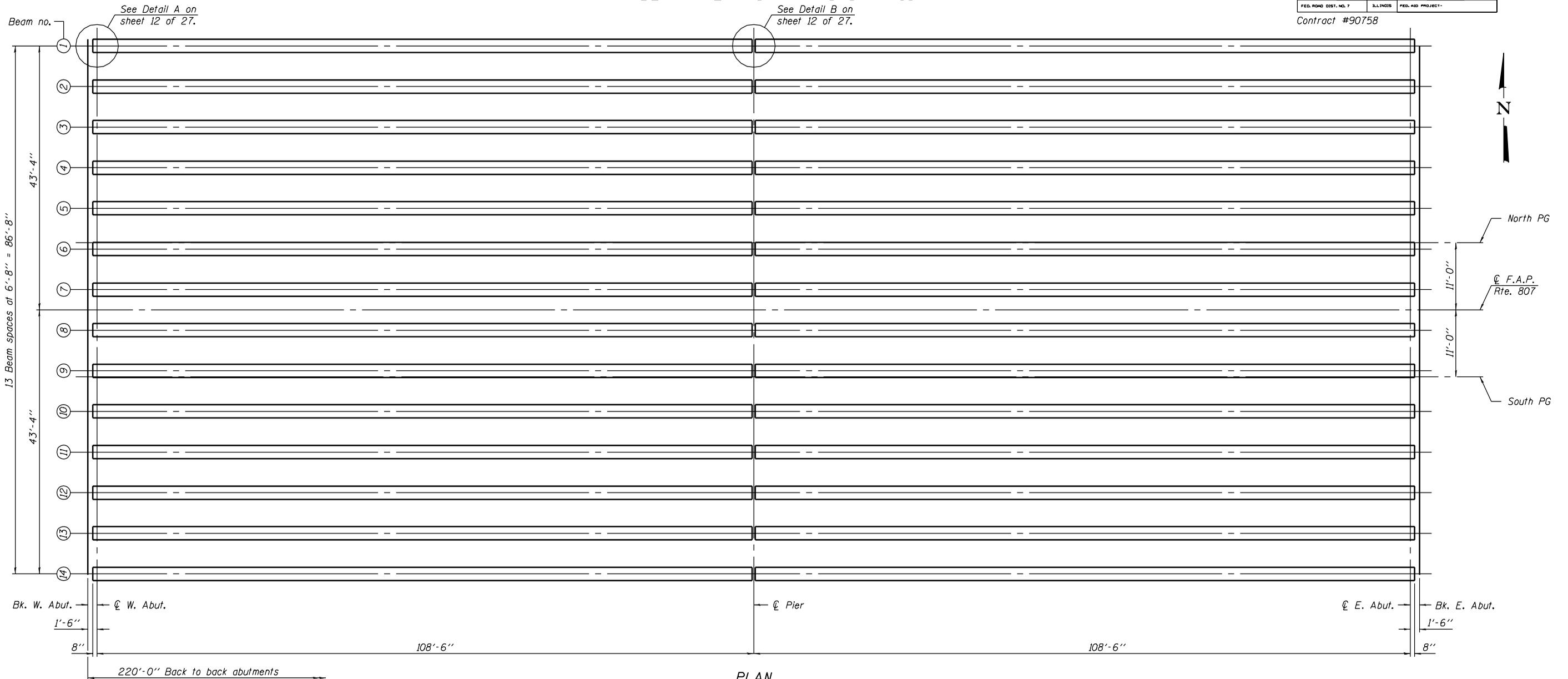


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	10-32HB-3,K	CHAMPAIGN	352	123
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
27 SHEETS

Contract #90758



PLAN

	0.4 Span 1 0.6 Span 2	Pier	
I	(in ⁴) 392638		
I'	(in ⁴) 728314		
S_b	(in ³) 12224		
S_b'	(in ³) 15961		
S_t	(in ³) 12715		
S_t'	(in ³) 41929		
\bar{D}	(k/')	1.434	
$M \bar{D}$	(k)	2081	
$s \bar{D}$	(k/')	0.558	0.558
$M s \bar{D}$	(k)	460	821
$M \bar{L}$	(k)	826	801
$M (Imp)$	(k)	173	168

	Abuts.	Pier Span 1 or 2
$R \bar{D}$	(k) 77.8	77.8
$R s \bar{D}$	(k) 22.7	37.8
$R \bar{L}$	(k) 39.0	34.2
Imp.	(k) 8.2	7.2
$R (Total)$	(k) 147.7	157.0

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.
 $M \bar{D}$ is the moment due to dead loads on the non-composite prestressed beam. It is conservatively calculated at 0.5 of the span.
 $M s \bar{D}$ is the moment due to dead loads on the composite section.
 $M \bar{L}$ 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.

DESIGNED	Gholam R. Ahanchi
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	G.R.A. / R.L.T.

April 28, 2006
 EXAMINED *Thomas J. Domagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

FRAMING PLAN
 F.A.I. ROUTE 57 SEC. 10-32HB-3,K
 CHAMPAIGN COUNTY
 STATION 297+20.45
 STRUCTURE NO. 010-0272