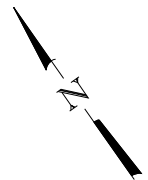


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 721	SECTION (113BR) BR	COUNTY DEWITT	TOTAL SHEETS 81	SHEET NO. 35	SHEET NO. 10 18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

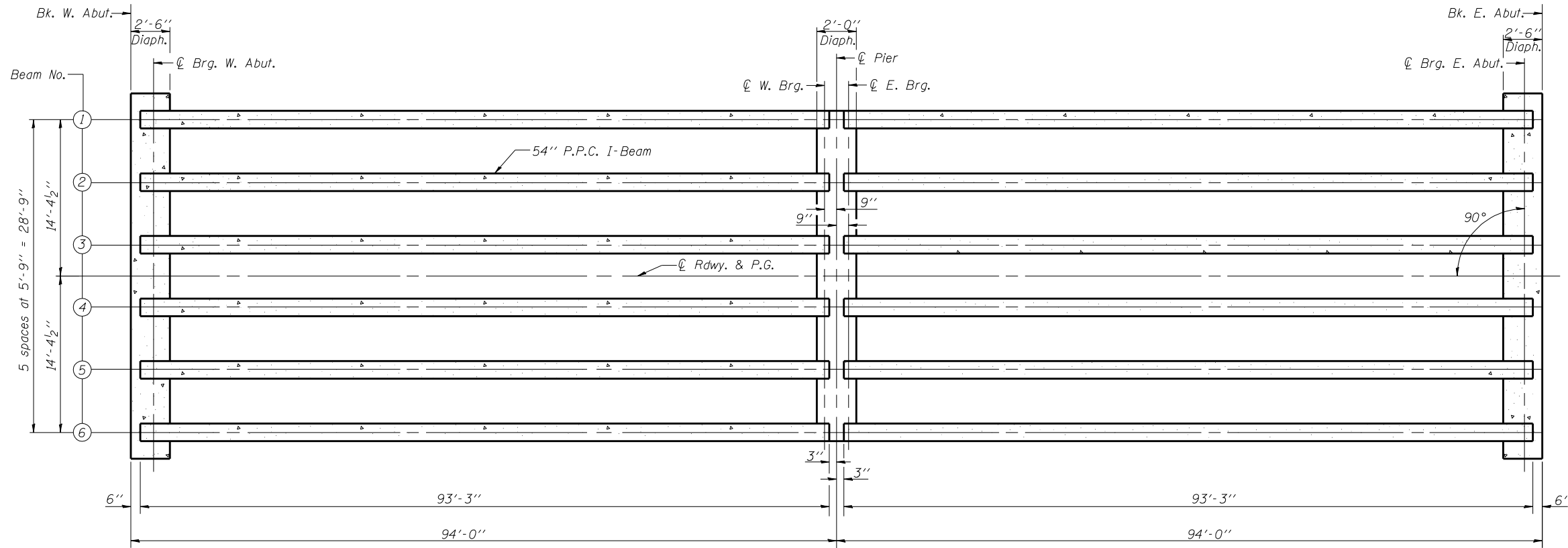
Contract #70232



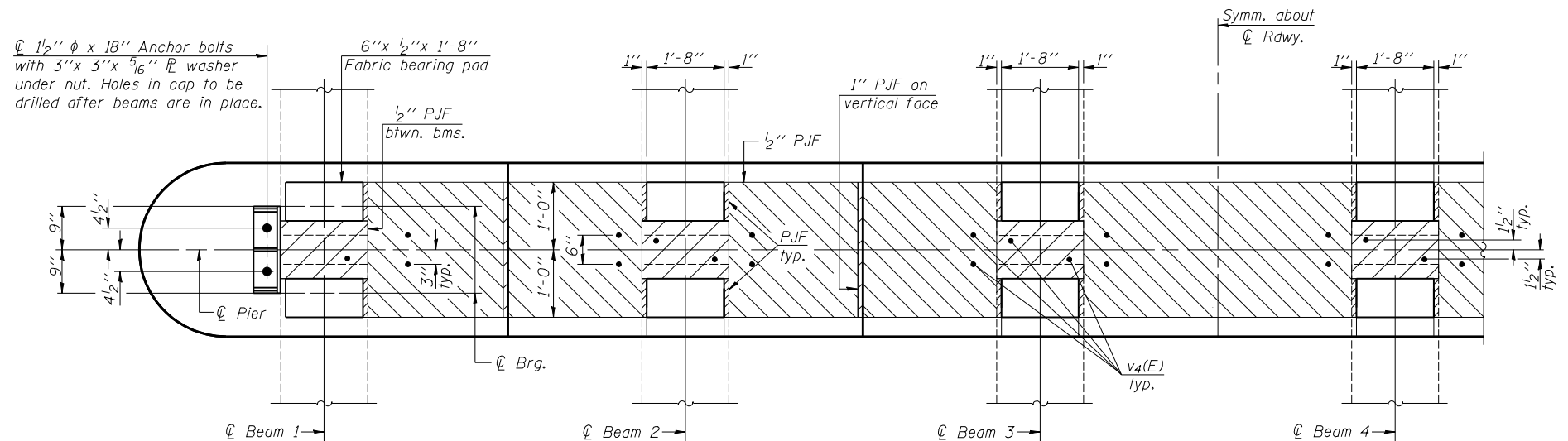
	0.4 Sp. 1	0.6 Sp. 2	Pier
<i>Strand Pattern</i>			
I	(in ⁴)	213715	---
I'	(in ⁴)	477988	---
S_b	(in ³)	8559	---
S_b'	(in ³)	12486	---
S_t	(in ³)	7362	---
S_t'	(in ³)	30377	---
\bar{Q}	(k/')	1.202	---
$M\bar{Q}$	(k)	1272	---
$s\bar{Q}$	(k/')	0.438	0.438
$Ms\bar{Q}$	(k)	264	471
$M\bar{L}$	(k)	588	527
$M(Imp)$	(k)	135	121

	Abuts.	Pier Spans 1 & 2
$R\bar{Q}$	(k)	55.7
$Rs\bar{Q}$	(k)	15.2
$R\bar{L}$	(k)	32.9
$Imp.$	(k)	7.6
$R(Total)$	(k)	111.4

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



FRAMING PLAN



HALF PLAN AT PIER
(Showing fabric bearing pad and P.J.F. details)

DESIGNED	Phillip R. Litchfield
CHECKED	Nick R. Barnett
DRAWN	R. Sommer
CHECKED	P.R.L./N.R.B.

September 6, 2007	EXAMINED	Thomas J. Domagalaki
	PASSED	Ralph E. Anderson

FRAMING PLAN
F.A.P. ROUTE 721 - SECTION (113BR)BR
DEWITT COUNTY
STATION 244+07.00
STRUCTURE NO. 020-0062