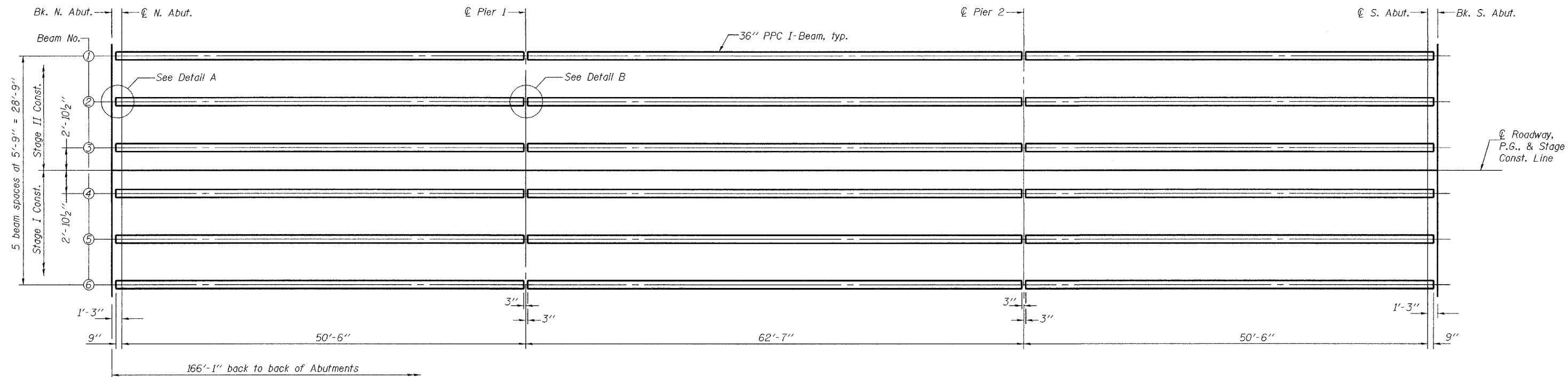


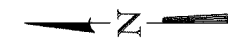
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 332	(24BR-1)BR	CLARK	25	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract No. 7021B



FRAMING PLAN

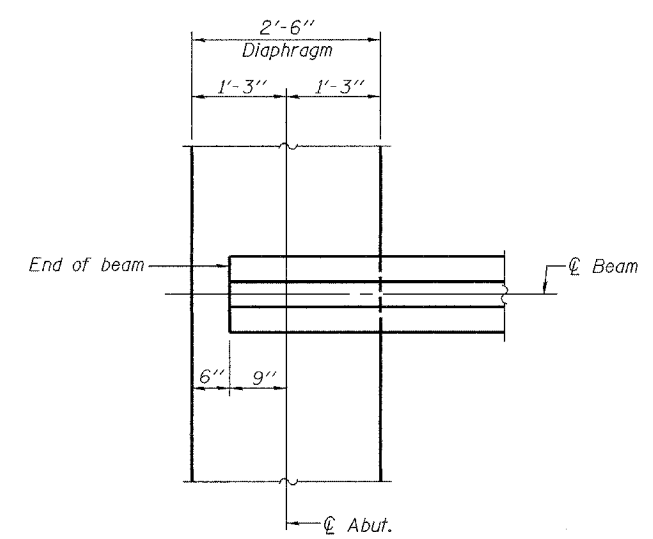


I and I' are the moment of inertia and composite moment of inertia of the beam section.
 S_b and S_b' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.
 S_t and S_t' are the non-composite and composite section modulus for the top fiber of the prestressed beam.
 $DC1$ is the dead load acting on the non-composite section.
 $DC2$ is the dead load acting on the long-term composite section.
 DW is the dead load acting on the long-term composite section due to wearing surface.

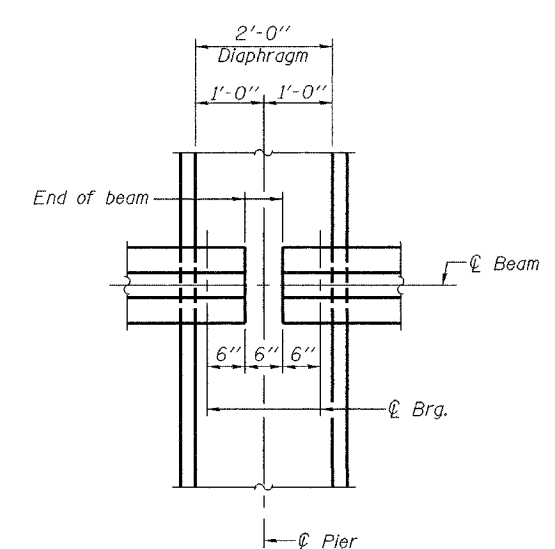
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or Pier 2	0.5 Sp. 2
I (in ⁴)	48648	48648	48648
I' (in ⁴)	171883	—	171883
S_b (in ³)	3165	3165	3165
S_b' (in ³)	5968	—	5968
S_t (in ³)	2358	2358	2358
S_t' (in ³)	23872	—	23872
$DC1$ (k/ft.)	0.935	0.935	0.935
$M DC1$ (k)	298.1	—	457.8
$DC2$ (k/ft.)	0.15	0.15	0.15
$M DC2$ (k)	26.5	48.6	24.9
DW (k/ft.)	0.288	0.288	0.288
$M DW$ (k)	50.8	93.1	47.7
$M \pm Imp$ (k)	484.1	423.1	470.9

	Abutments	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
$R DC1$ (k)	23.3	23.3	28.9
* $R DC2$ (k)	2.8	4.7	4.7
* $R DW$ (k)	5.4	9.1	9.1
* $R \pm$ (k)	43.7	32.9	32.9
* $R Imp$ (k)	14.4	10.9	10.9
$R Total$ (k)	89.6	80.9	86.5

*The total $R DC2$, $R DW$, $R \pm$, and $R Imp$ reactions are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios.



DETAIL A



DETAIL B

DESIGNED	CCC
CHECKED	SJB
DRAWN	BECKY M. CURRY
CHECKED	CCC & SMR

December 8, 2004
 EXAMINED *Thomas J. Damagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

FRAMING PLAN
F.A.P. ROUTE 332 - SEC. (24BR-1)BR
CLARK COUNTY
STATION 595+60.10
STRUCTURE NO. 012-0071