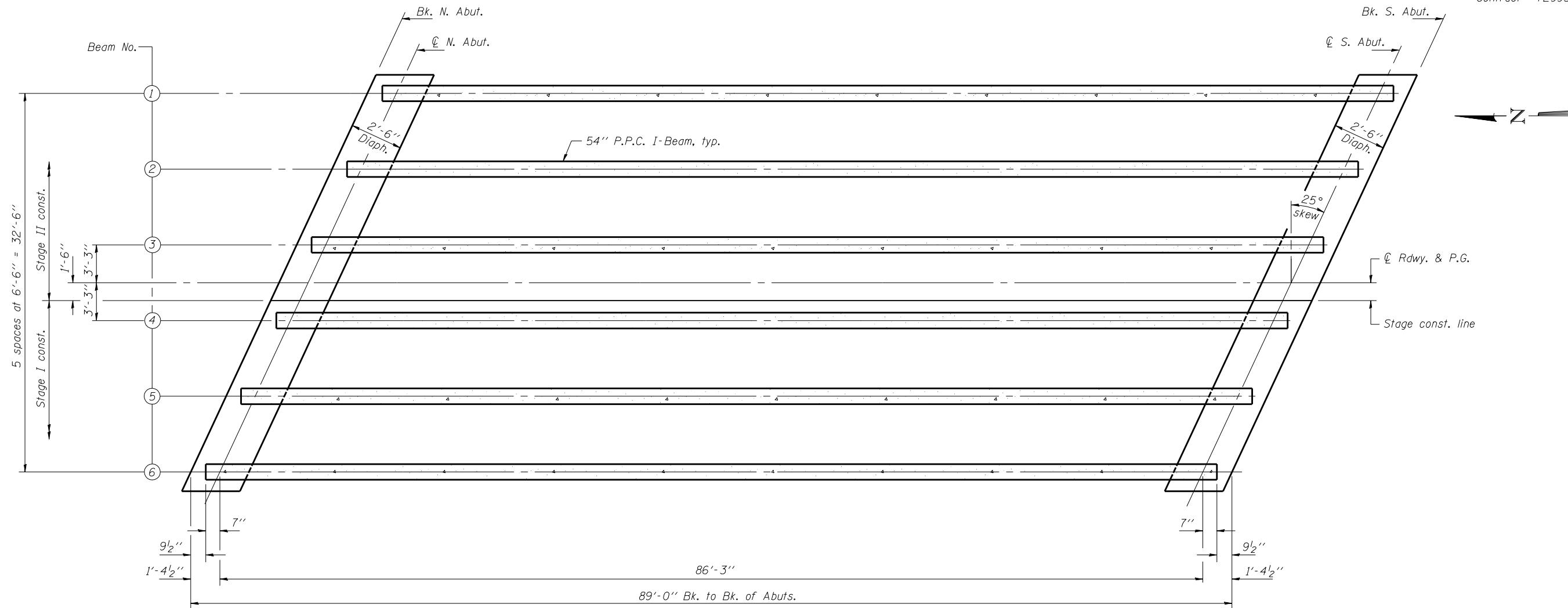


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOOL SHEETS	SHEET NO.
FAP 662 (V,T)B-2		MACOUPIN	66	36
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 10
20 SHEETS

Contract #72993



FRAMING PLAN

INTERIOR BEAM MOMENT TABLE	
	0.5 Span
I	(in ⁴) 213715
I'	(in ⁴) 507830
S _b	(in ³) 8559
S _b '	(in ³) 12888
S _t	(in ³) 7362
S _t '	(in ³) 34788
DC1	(k') 1.254
M DC1	('k) 1166.0
DC2	(k') 0.15
M DC2	('k) 139.5
DW	(k') .325
M DW	('k) 302.2
M _L + Imp	('k) 1365.5

INTERIOR BEAM REACTION TABLE HL93 LOADING	
	Abut.
R DC1	(k) 54.1
R DC2	(k) 6.5
R DW	(k) 14.0
R Q	(k) 65.6
R (Imp)	(k) 23.7
R (Total)	(k) 163.9

- I: Non-composite moment of inertia of beam section (in.⁴).
- I': Composite moment of inertia of beam section (in.⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
- S_t' : Composite section modulus for the top fiber of the prestressed beam (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_L + Imp: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

DESIGNED	DPN
EXAMINED	Jan 23, 2007
CHECKED	AJB
DRAWN	h.t. duong
PASSED	Ralph E. Anderson
CHECKED	FT/AJB/DPN

Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

FRAMING PLAN
F.A.P. RT. 662 - SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504