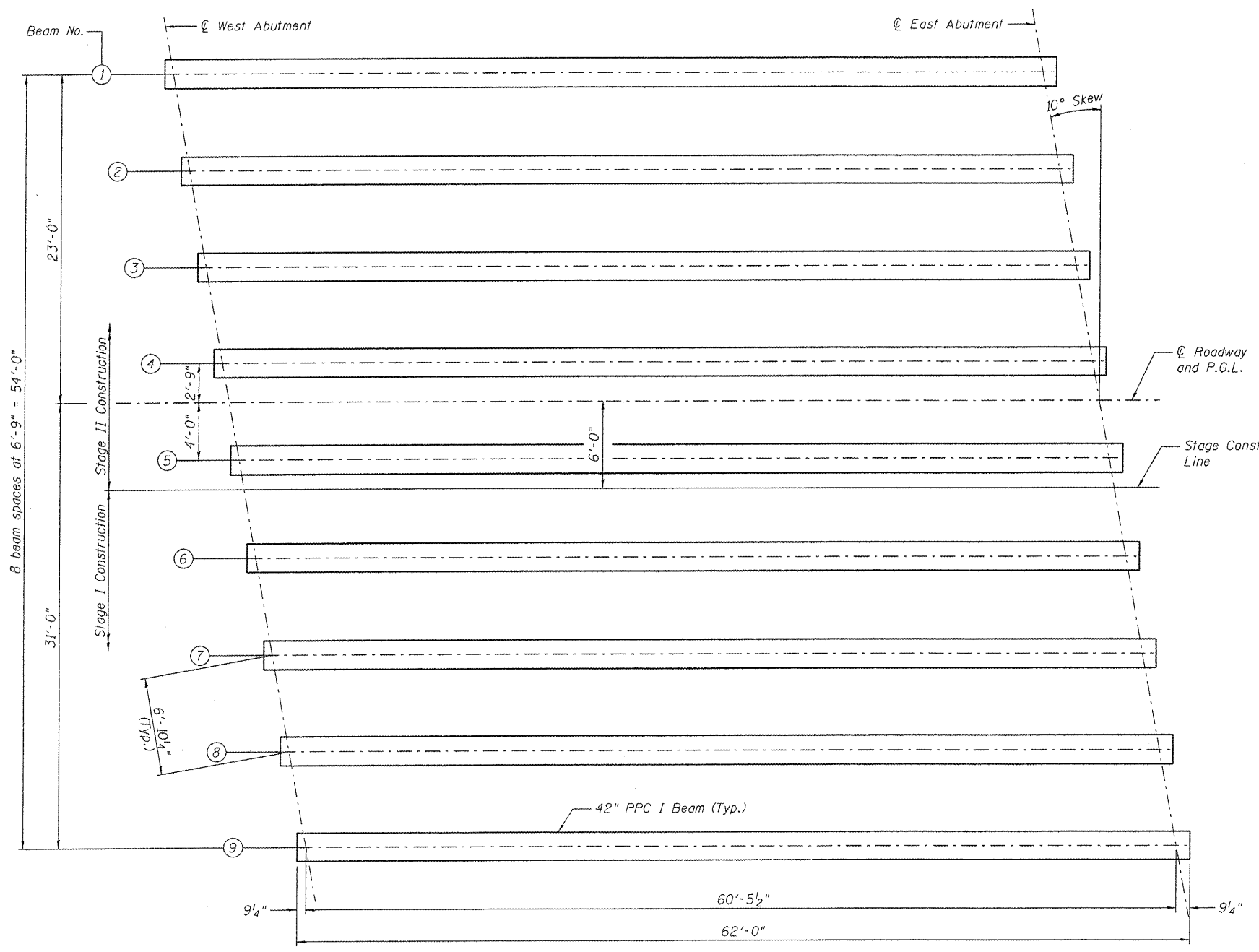


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6757 (US 150)	(105B) BR-3	Tazewell	133	79
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 11
24 SHEETS

Contract #68086



FRAMING PLAN

0.5 SPAN		
I	(in ⁴)	90956
I'	(in ⁴)	276390
S _b	(in ³)	5153
S _b '	(in ³)	8720
S _t	(in ³)	3736
S _t '	(in ³)	26816
Q	(k/')	1.128
M _Q	(k)	515
s _Q	(k/')	0.683
M _{s_Q}	(k)	312
M _L	(k)	499
M _{Imp}	(k)	135

Abut.		
R _Q	(k)	34
R _{s_Q}	(k)	21
R _L	(k)	46
Imp.	(k)	12
R _{Total}	(k)	113

- 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).
- Q: Un-factored non-composite dead load (kips/ft.).
- M_Q: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
- s_Q: Un-factored long-term composite (superimposed) dead load (kips/ft.).
- M_{s_Q}: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- M_L: Un-factored live load moment on the composite section (kip-ft.).
- M_{Imp}: Un-factored moment due to impact on the composite section (kip-ft.).

\$DATE\$ \$TIME\$ \$FILE\$ \$ABBREV\$ \$

Lin Engineering, Ltd.
Consulting Engineers
Chatham, Illinois

Designed By: REM
Date: 10/01

Checked By: BLS
File: 090-0176.DGN

Drawn By: AJP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FRAMING PLAN
U.S. 150 OVER LITTLE FARM CREEK
F.A.U. ROUTE 6757 SECTION (105B)BR-3
TAZEWELL COUNTY
STA. 89+80.58
S.N. 090-0176