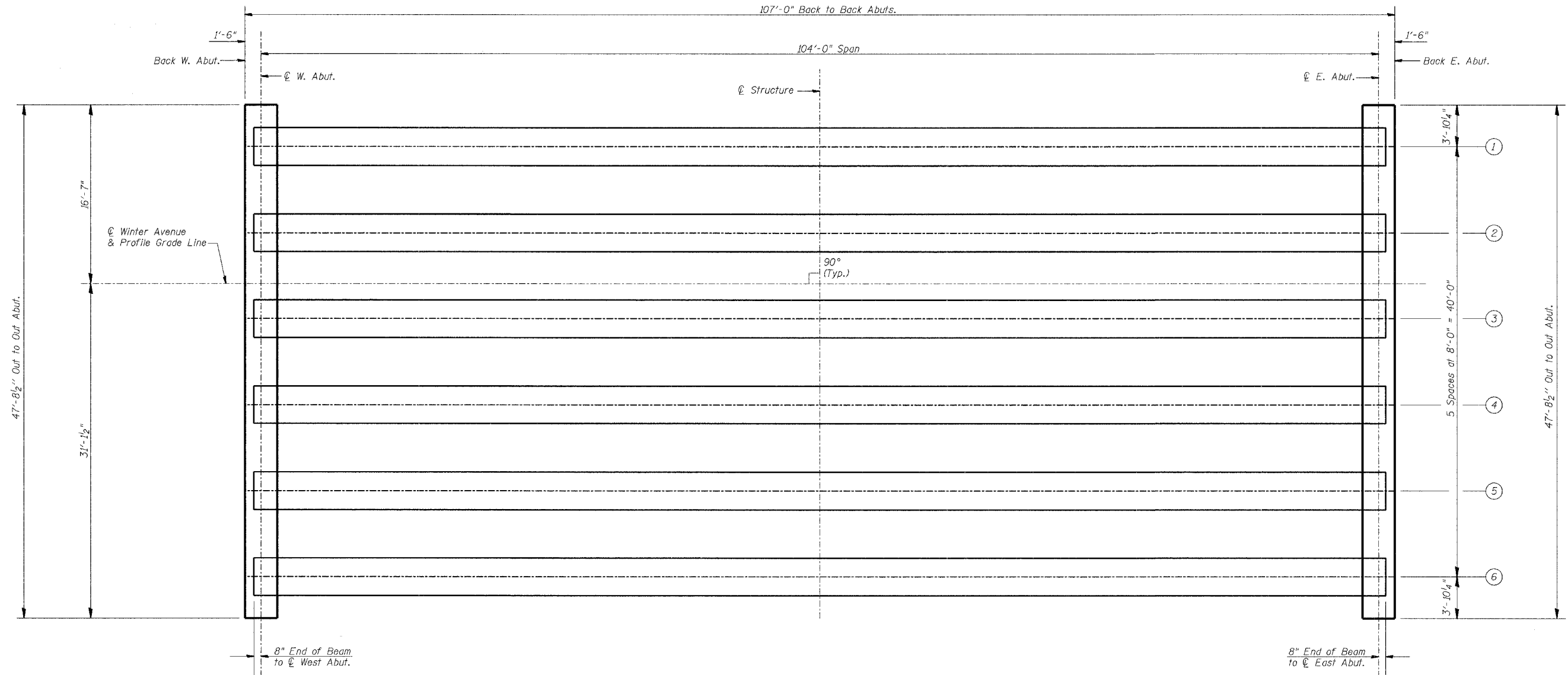


ROUTE NO. FAU 6998	SECTION 99-00209-02-PV	COUNTY VERMILION	TOTAL SHEETS 72	SHEET NO. 41
FED. ROAD DIST. NO.		ILLINOIS PROJECT	CONTRACT NO. 91356	



FRAMING PLAN

		0.5 Span
I	(in ⁴)	545894
I'	(in ⁴)	1039373
S_b	(in ³)	14915
S_b'	(in ³)	19630
S_t	(in ³)	15421
S_t'	(in ³)	54555
ϕ	(k/')	1.71
M_D	(k')	2316
S_D	(k/')	0.83
M_{sD}	(k')	1129
M_L	(k')	1161
M (Imp)	(k')	253
M_u	(k')	7543
M_{cap}	(k')	8749

		E. & W. Abuts.
R_D	(k)	89
R_{sD}	(k)	43
R_L	(k)	49
Imp.	(k)	11
R (Total)	(k)	192

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_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_{sD} is the moment due to dead loads on the composite section.
 M_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			Sheet No.
Date	Designed ACW	WINTER AVENUE OVER STONEY CREEK SECTION 99-00209-02-PV CITY OF DANVILLE, IL VERMILION COUNTY STA. 106+34.70 PROP. STR. NO. 092-6033	10 of 21
Revisions	Drawn BKN		
	Checked KWB		
	Approved KWB		
Prepared by:	URS 3040 North University Avenue Decatur, IL 62526		URS Job No. 36430866