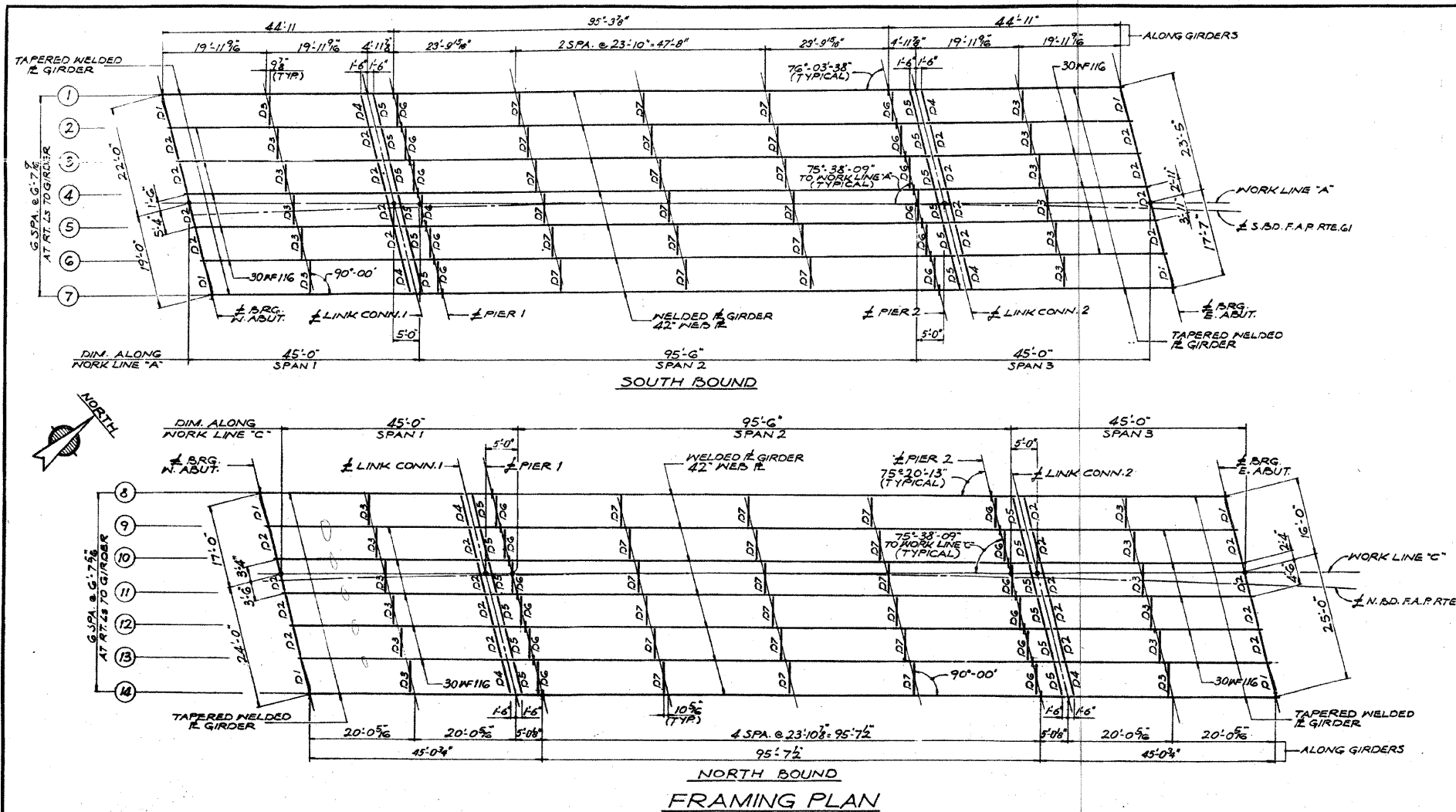


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 61	22-5HB	DUPAGE	181	74
SHEET 10 OF 23				



STRESS TABLE 'A'

TABLE OF MOMENTS AND REACTIONS - INTERIOR BEAMS

	MOMENTS (FT. KIPS)		REACTIONS (KIPS)	
	0.5 SPAN 1	PIER 1	0.5 SPAN 2	PIERS
D.L.	150	-85	15.0	57.9
S.D.L.	50	-29	5.0	18.3
L.L.	265	-163	30.9	37.0
IMP.	80	-40	9.3	8.3
TOTAL	546	-328	60.2	121.5
SEC. MOD. PROVIDED	328	486		

STRESS TABLE 'B'

INTERIOR BEAM

	0.5 SPAN 2		
	STEEL SECTION	STEEL SECTION	
D.L.	870	19,472	
S.D.L.	257	698	
L.L.	853	1,123	
IMP.	191	n=10	
TOTAL	1301	47,308	
SHEAR (KIP)			
SUPPT 0.25 PT. 0.5 PT.			
S.D.L.	12.0	6.0	0
L.L.	36.8	27.8	17.0
IMP.	8.2	6.2	3.8
TOTAL	57.0	40.0	20.8

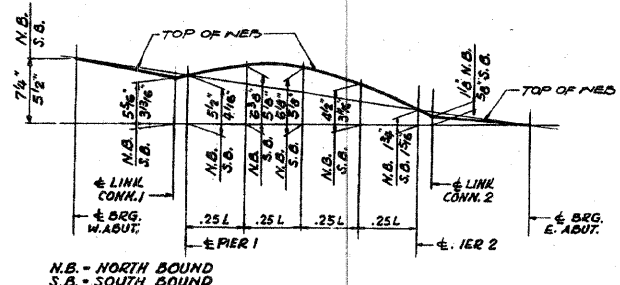
GIRDER PROPERTIES

0.5 SPAN 2	
STEEL SECTION	
I _s	19,472
S _{ts}	698
S _{bs}	1,123
COMPOSITE SECTION	
I _c	47,308
S _{tc}	3,755
S _{bc}	1,443

GIRDER ELEVATIONS FOR FABRICATION ONLY

GIRDERS & BEAMS LOCATION	SOUTH-BOUND							NORTH-BOUND						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
E BRG. N. ABUT.	765.580	765.278	764.903	764.527	764.152	763.777	763.329	765.228	764.925	764.550	764.174	763.799	763.424	762.975
E LINK CONN. 1	763.452	763.077	764.701	764.326	763.951	763.575	763.200	763.070	764.694	764.319	763.943	763.567	763.192	762.816
E PIER NO. 1	763.466	763.091	764.716	764.340	763.965	763.590	763.214	763.080	764.704	764.329	763.953	763.578	763.202	762.826
E PIER NO. 2	765.233	764.857	764.481	764.106	763.730	763.354	762.979	764.769	764.393	764.017	763.641	763.265	762.889	762.512
E LINK CONN. 2	765.195	764.820	764.444	764.068	763.693	763.317	762.941	764.727	764.351	763.975	763.599	763.222	762.846	762.469
E BRG. E. ABUT.	765.127	764.824	764.449	764.072	763.696	763.320	762.944	764.625	764.249	763.873	763.497	763.121	762.745	762.368

ELEVATIONS ARE GIVEN TO TOP OF HEBS OF PLATE GIRDERS AND TO TOP OF FLANGE OF ROLLED BEAMS AND TO TOP OF STR. IN A DIMENSION OF 8 1/2" TO TOP OF HEBS OF PLATE GIRDERS AND 7 1/2" TO TOP OF FLANGE OF ROLLED BEAMS. DIMENSIONS ABSTRACTED FROM TOP OF SLAB ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION.



CAMBER DIAGRAM

NOTE: CAMBER DIAGRAM BASED ON CONCRETE & STEEL D.L. DEFLECTION + VERTICAL CURVE CORRECTION.

NOTE: FOR ELECTRICAL SUPPORT DETAILS SEE SH. 12

FRAMING PLAN
F.A. ROUTE 61 OVER
F.A. ROUTE 6 (LAKE STREET)
PROJECT
SECTION 22-5HB
DU PAGE COUNTY
STATION 1239+49.90

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
191 N. WASHINGTON, CHICAGO, ILLINOIS

FOR INFORMATION ONLY

benesch

alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10050

SHEET NO. 21	F.A.I. RTE. 290	SECTION 22(1, 1-1, 2&3)RS-7	COUNTY DUPAGE	TOTAL SHEETS 546	SHEET NO. 494
28 SHEETS	CONTRACT NO. 60G51		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

EXISTING PLAN INFORMATION 6 OF 13
STRUCTURE NO. 022-0112

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