

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TABLE OF a THRU ai DIMENSIONS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 28 52 SHEETS
F.A.U. 7706	23(B-1)	LOGAN	179	112	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #72789

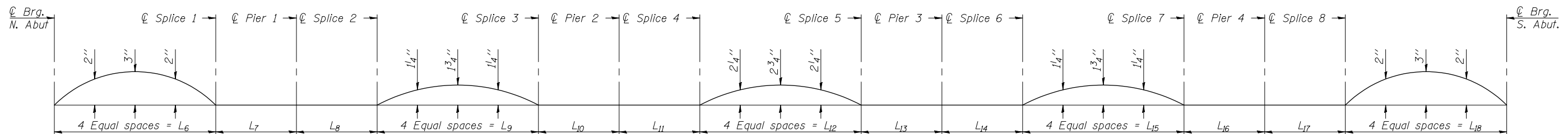
Beam No.	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
1	21'-0"	3'-3 ¹ / ₁₆ "	10'-2"	13'-4"	10'-7"	10'-0"	8'-5"	11'-7"	20'-0"	16'-6 ¹⁵ / ₁₆ "	3'-5 ¹ / ₁₆ "	10'-0"	10'-6 ¹⁵ / ₁₆ "	10'-7 ⁵ / ₈ "	10'-0"	3'-4 ³ / ₈ "	16'-7 ⁵ / ₈ "	20'-0"
2	20'-11 ¹ / ₂ "	3'-3"	10'-1 ³ / ₄ "	13'-3 ¹ / ₁₆ "	10'-6 ³ / ₄ "	9'-11 ³ / ₄ "	8'-4 ¹³ / ₁₆ "	11'-6 ¹³ / ₁₆ "	19'-11 ¹ / ₂ "	16'-6 ⁹ / ₁₆ "	3'-5"	9'-11 ³ / ₄ "	10'-6 ¹ / ₁₆ "	10'-7 ³ / ₈ "	9'-11 ³ / ₄ "	3'-4 ⁵ / ₁₆ "	16'-7 ⁴ / ₄ "	19'-11 ⁹ / ₁₆ "
3	20'-11"	3'-3"	10'-1 ¹ / ₂ "	13'-3 ³ / ₈ "	10'-6 ¹ / ₂ "	9'-11 ¹ / ₂ "	8'-4 ⁵ / ₈ "	11'-6 ¹ / ₂ "	19'-11 ¹ / ₂ "	16'-6 ³ / ₁₆ "	3'-4 ¹⁵ / ₁₆ "	9'-11 ¹ / ₂ "	10'-6 ¹ / ₁₆ "	10'-7 ¹ / ₈ "	9'-11 ¹ / ₂ "	3'-4 ³ / ₁₆ "	16'-6 ¹ / ₈ "	19'-11 ¹ / ₁₆ "
4	20'-10 ¹ / ₂ "	3'-2 ¹⁵ / ₁₆ "	10'-1 ¹ / ₄ "	13'-3 ¹ / ₁₆ "	10'-6 ¹ / ₄ "	9'-11 ¹ / ₄ "	8'-4 ¹ / ₁₆ "	11'-6 ¹ / ₁₆ "	19'-10 ⁵ / ₈ "	16'-5 ¹⁵ / ₁₆ "	3'-4 ¹³ / ₁₆ "	9'-11 ¹ / ₄ "	10'-6 ¹ / ₁₆ "	10'-6 ¹ / ₈ "	9'-11 ¹ / ₄ "	3'-4 ¹ / ₈ "	16'-6 ¹ / ₁₆ "	19'-10 ⁵ / ₈ "
5	20'-10 ¹ / ₁₆ "	3'-2 ¹ / ₁₆ "	10'-1"	13'-2 ³ / ₄ "	10'-6"	9'-11 ¹ / ₁₆ "	8'-4 ¹ / ₁₆ "	11'-6"	19'-10 ¹ / ₁₆ "	16'-5 ¹ / ₁₆ "	3'-4 ¹ / ₁₆ "	9'-11 ¹ / ₁₆ "	10'-6"	10'-6 ¹ / ₈ "	9'-11 ¹ / ₁₆ "	3'-4 ¹ / ₁₆ "	16'-6 ¹ / ₁₆ "	19'-10 ¹ / ₁₆ "
6	20'-9 ⁹ / ₁₆ "	3'-2 ⁵ / ₈ "	10'-0 ³ / ₄ "	13'-2 ¹ / ₁₆ "	10'-5 ³ / ₄ "	9'-10 ³ / ₈ "	8'-4 ¹ / ₈ "	11'-5 ¹ / ₁₆ "	19'-9 ¹ / ₁₆ "	16'-5"	3'-4 ⁵ / ₈ "	9'-10 ¹ / ₁₆ "	10'-5 ³ / ₄ "	10'-6 ³ / ₈ "	9'-10 ¹ / ₁₆ "	3'-4"	16'-5 ³ / ₄ "	19'-9 ¹ / ₁₆ "
7	20'-9 ¹ / ₁₆ "	3'-2 ¹ / ₈ "	10'-0 ⁵ / ₈ "	13'-2 ¹ / ₈ "	10'-5 ¹ / ₂ "	9'-10 ⁵ / ₈ "	8'-3 ³ / ₄ "	11'-5 ¹ / ₈ "	19'-9 ¹ / ₄ "	16'-4 ⁵ / ₈ "	3'-4 ¹ / ₈ "	9'-10 ⁵ / ₈ "	10'-5 ¹ / ₂ "	10'-6 ¹ / ₈ "	9'-10 ⁵ / ₈ "	3'-3 ⁷ / ₈ "	16'-5 ³ / ₈ "	19'-9 ¹ / ₁₆ "
8	20'-8 ⁹ / ₁₆ "	3'-2 ⁹ / ₁₆ "	10'-0 ⁵ / ₁₆ "	13'-1 ⁹ / ₈ "	10'-5 ¹ / ₄ "	9'-10 ³ / ₈ "	8'-3 ⁵ / ₈ "	11'-5 ¹ / ₈ "	19'-8 ³ / ₄ "	16'-4 ¹ / ₄ "	3'-4 ¹ / ₈ "	9'-10 ³ / ₈ "	10'-5 ¹ / ₄ "	10'-5 ¹ / ₈ "	9'-10 ³ / ₈ "	3'-3 ¹ / ₁₆ "	16'-4 ¹⁵ / ₁₆ "	19'-8 ³ / ₄ "
9	20'-8 ¹ / ₁₆ "	3'-2 ¹ / ₁₆ "	10'-0 ¹ / ₁₆ "	13'-1 ⁹ / ₁₆ "	10'-5"	9'-10 ¹ / ₈ "	8'-3 ¹ / ₁₆ "	11'-4 ¹³ / ₁₆ "	19'-8 ⁵ / ₁₆ "	16'-3 ¹ / ₈ "	3'-4 ³ / ₈ "	9'-10 ¹ / ₈ "	10'-5"	10'-5 ⁵ / ₈ "	9'-10 ¹ / ₈ "	3'-3 ³ / ₄ "	16'-4 ¹ / ₂ "	19'-8 ⁵ / ₁₆ "
10	20'-7 ⁹ / ₁₆ "	3'-2 ¹ / ₂ "	9'-11 ¹³ / ₁₆ "	13'-1 ¹ / ₄ "	10'-4 ³ / ₄ "	9'-9 ¹ / ₈ "	8'-3 ¹ / ₄ "	11'-4 ³ / ₈ "	19'-7 ¹ / ₁₆ "	16'-3 ¹ / ₂ "	3'-4 ⁵ / ₁₆ "	9'-9 ¹ / ₈ "	10'-4 ³ / ₄ "	10'-5 ³ / ₈ "	9'-9 ¹ / ₈ "	3'-3 ¹ / ₁₆ "	16'-4 ³ / ₁₆ "	19'-7 ¹³ / ₁₆ "
11	20'-7 ¹ / ₈ "	3'-2 ³ / ₁₆ "	9'-11 ⁹ / ₁₆ "	13'-0 ¹⁵ / ₁₆ "	10'-4 ¹ / ₂ "	9'-9 ¹ / ₁₆ "	8'-3 ¹ / ₁₆ "	11'-4 ³ / ₈ "	19'-7 ⁵ / ₁₆ "	16'-3 ¹ / ₈ "	3'-4 ³ / ₁₆ "	9'-9 ¹ / ₁₆ "	10'-4 ¹ / ₂ "	10'-5 ¹ / ₈ "	9'-9 ¹ / ₁₆ "	3'-3 ⁹ / ₁₆ "	16'-3 ³ / ₄ "	19'-7 ³ / ₈ "
12	20'-6 ⁵ / ₈ "	3'-2 ¹ / ₈ "	9'-11 ³ / ₈ "	13'-0 ³ / ₈ "	10'-4 ⁵ / ₁₆ "	9'-9 ¹ / ₁₆ "	8'-2 ¹³ / ₁₆ "	11'-4 ¹ / ₁₆ "	19'-6 ¹ / ₈ "	16'-2 ¹ / ₁₆ "	3'-4 ³ / ₁₆ "	9'-9 ¹ / ₁₆ "	10'-4 ¹ / ₄ "	10'-4 ¹ / ₈ "	9'-9 ¹ / ₂ "	3'-3 ¹ / ₂ "	16'-3 ⁵ / ₁₆ "	19'-6 ¹ / ₈ "

Beam No.	s	t	u	v	w	x	y	z	aa	ab	ac	ad	ae	af	ag	ah	ai
1	16'-7 ¹³ / ₁₆ "	3'-4 ³ / ₁₆ "	10'-0"	10'-7 ¹³ / ₁₆ "	10'-7"	10'-0"	3'-5"	16'-7"	20'-0"	11'-6 ¹⁵ / ₁₆ "	8'-5 ¹ / ₁₆ "	10'-0"	10'-6 ¹⁵ / ₁₆ "	13'-4 ¹ / ₄ "	10'-1 ³ / ₄ "	3'-3 ¹ / ₄ "	21'-0"
2	16'-7 ⁷ / ₈ "	3'-4 ¹ / ₈ "	9'-11 ³ / ₄ "	10'-7 ⁹ / ₁₆ "	10'-6 ³ / ₄ "	9'-11 ³ / ₄ "	3'-4 ¹⁵ / ₁₆ "	16'-6 ¹ / ₁₆ "	19'-11 ¹ / ₂ "	11'-6 ¹ / ₁₆ "	8'-4 ¹ / ₈ "	9'-11 ³ / ₄ "	10'-6 ¹ / ₁₆ "	13'-3 ⁵ / ₁₆ "	10'-1 ¹ / ₂ "	3'-3 ¹ / ₄ "	20'-11 ¹ / ₂ "
3	16'-7"	3'-4 ¹ / ₁₆ "	9'-11 ¹ / ₂ "	10'-7 ⁵ / ₁₆ "	10'-6 ¹ / ₂ "	9'-11 ¹ / ₂ "	3'-4 ⁹ / ₁₆ "	16'-6 ¹ / ₄ "	19'-11 ¹ / ₂ "	11'-6 ¹ / ₁₆ "	8'-4 ¹ / ₁₆ "	9'-11 ¹ / ₂ "	10'-6 ¹ / ₁₆ "	13'-3 ³ / ₈ "	10'-1 ¹ / ₄ "	3'-3 ¹ / ₄ "	20'-11"
4	16'-6 ⁵ / ₈ "	3'-3 ¹ / ₁₆ "	9'-11 ⁵ / ₁₆ "	10'-7 ¹ / ₁₆ "	10'-6 ¹ / ₄ "	9'-11 ⁵ / ₁₆ "	3'-4 ³ / ₄ "	16'-5 ¹ / ₈ "	19'-10 ⁵ / ₈ "	11'-6 ¹ / ₈ "	8'-4 ¹ / ₁₆ "	9'-11 ⁵ / ₁₆ "	10'-6 ¹ / ₁₆ "	13'-3 ⁵ / ₁₆ "	10'-1"	3'-3"	20'-10 ⁹ / ₁₆ "
5	16'-6 ¹ / ₄ "	3'-3 ¹ / ₈ "	9'-11 ¹ / ₈ "	10'-6 ¹³ / ₁₆ "	10'-6"	9'-11 ¹ / ₈ "	3'-4 ¹ / ₁₆ "	16'-5 ¹ / ₁₆ "	19'-10 ³ / ₁₆ "	11'-5 ¹ / ₁₆ "	8'-4 ¹ / ₁₆ "	9'-11 ¹ / ₈ "	10'-6"	13'-3"	10'-0 ¹³ / ₁₆ "	3'-2 ⁷ / ₈ "	20'-10 ¹ / ₁₆ "
6	16'-5 ¹³ / ₁₆ "	3'-3 ¹ / ₁₆ "	9'-10 ¹³ / ₁₆ "	10'-6 ⁹ / ₁₆ "	10'-5 ³ / ₄ "	9'-10 ¹³ / ₁₆ "	3'-4 ⁵ / ₈ "	16'-5 ¹ / ₁₆ "	19'-9 ¹ / ₁₆ "	11'-5 ⁵ / ₈ "	8'-4 ¹ / ₁₆ "	9'-10 ¹³ / ₁₆ "	10'-5 ³ / ₄ "	13'-2 ¹ / ₁₆ "	10'-0 ⁹ / ₁₆ "	3'-2 ⁷ / ₈ "	20'-9 ⁹ / ₁₆ "
7	16'-5 ¹ / ₁₆ "	3'-3 ³ / ₈ "	9'-10 ⁵ / ₈ "	10'-6 ¹ / ₄ "	10'-5 ¹ / ₂ "	9'-10 ⁵ / ₈ "	3'-4 ¹ / ₂ "	16'-4 ¹ / ₁₆ "	19'-9 ¹ / ₄ "	11'-5 ¹ / ₁₆ "	8'-3 ¹ / ₁₆ "	9'-10 ⁵ / ₈ "	10'-5 ¹ / ₂ "	13'-2 ³ / ₈ "	10'-0 ³ / ₁₆ "	3'-2 ¹ / ₈ "	20'-9 ¹ / ₁₆ "
8	16'-5 ¹ / ₁₆ "	3'-3 ⁵ / ₈ "	9'-10 ³ / ₈ "	10'-6 ¹ / ₁₆ "	10'-5 ¹ / ₄ "	9'-10 ³ / ₈ "	3'-4 ¹ / ₁₆ "	16'-4 ¹ / ₁₆ "	19'-8 ³ / ₄ "	11'-5 ¹ / ₁₆ "	8'-3 ⁵ / ₈ "	9'-10 ³ / ₈ "	10'-5 ¹ / ₄ "	13'-2 ¹ / ₁₆ "	10'-0 ¹ / ₁₆ "	3'-2 ¹³ / ₁₆ "	20'-8 ⁹ / ₁₆ "
9	16'-4 ¹ / ₁₆ "	3'-3 ⁹ / ₁₆ "	9'-10 ¹ / ₈ "	10'-5 ¹³ / ₁₆ "	10'-5"	9'-10 ¹ / ₈ "	3'-4 ¹ / ₈ "	16'-3 ¹ / ₈ "	19'-8 ⁵ / ₁₆ "	11'-4 ¹³ / ₁₆ "	8'-3 ¹ / ₁₆ "	9'-10 ¹ / ₈ "	10'-5"	13'-1 ⁴ / ₄ "	9'-11 ¹ / ₈ "	3'-2 ³ / ₄ "	20'-8 ¹ / ₁₆ "
10	16'-4 ⁵ / ₁₆ "	3'-3 ¹ / ₂ "	9'-9 ¹ / ₈ "	10'-5 ⁹ / ₁₆ "	10'-4 ³ / ₄ "	9'-9 ¹ / ₈ "	3'-4 ⁵ / ₁₆ "	16'-3 ¹ / ₂ "	19'-7 ¹ / ₈ "	11'-4 ¹ / ₂ "	8'-3 ¹ / ₄ "	9'-9 ¹ / ₈ "	10'-4 ³ / ₄ "	13'-1 ¹ / ₁₆ "	9'-11 ⁵ / ₈ "	3'-2 ¹ / ₂ "	20'-7 ⁵ / ₈ "
11	16'-3 ¹ / ₁₆ "	3'-3 ¹ / ₁₆ "	9'-9 ¹ / ₁₆ "	10'-5 ¹ / ₄ "	10'-4 ¹ / ₂ "	9'-9 ¹ / ₁₆ "	3'-4 ³ / ₁₆ "	16'-3 ¹ / ₈ "	19'-7 ³ / ₈ "	11'-4 ¹ / ₄ "	8'-3 ¹ / ₁₆ "	9'-9 ¹ / ₁₆ "	10'-4 ¹ / ₂ "	13'-1 ¹ / ₈ "	9'-11 ³ / ₈ "	3'-2 ¹ / ₁₆ "	20'-7 ¹ / ₈ "
12	16'-3 ¹ / ₂ "	3'-3 ³ / ₈ "	9'-9 ¹ / ₁₆ "	10'-5 ¹ / ₁₆ "	10'-4 ⁵ / ₁₆ "	9'-9 ¹ / ₁₆ "	3'-4 ¹ / ₈ "	16'-2 ³ / ₄ "	19'-6 ¹ / ₈ "	11'-4"	8'-2 ¹ / ₈ "	9'-9 ¹ / ₁₆ "	10'-4 ¹ / ₄ "	13'-0 ¹ / ₈ "	9'-11 ¹ / ₈ "	3'-2 ³ / ₈ "	20'-6 ⁵ / ₈ "

* TOP OF WEB ELEVATIONS

Location	℄ Brg. N. Abut.	℄ Splice 1	℄ Pier 1	℄ Splice 2	℄ Splice 3	℄ Pier 2	℄ Splice 4	℄ Splice 5	℄ Pier 3	℄ Splice 6	℄ Splice 7	℄ Pier 4	℄ Splice 8	℄ Brg. S. Abut.
Beam 1	566.11	566.53	566.60	566.70	567.04	567.14	567.25	567.27	567.18	567.10	566.77	566.67	566.60	566.18
Beam 2	565.90	566.32	566.39	566.49	566.83	566.93	567.04	567.06	566.97	566.89	566.56	566.46	566.39	565.97
Beam 3	565.69	566.11	566.18	566.28	566.62	566.72	566.83	566.85	566.76	566.68	566.35	566.25	566.17	565.76
Beam 4	565.48	565.89	565.97	566.07	566.41	566.51	566.61	566.64	566.55	566.46	566.13	566.03	565.96	565.55
Beam 5	565.27	565.68	565.76	565.86	566.20	566.30	566.40	566.43	566.34	566.25	565.92	565.82	565.75	565.34
Beam 6	565.06	565.47	565.55	565.65	565.99	566.09	566.19	566.22	566.13	566.04	565.71	565.61	565.53	565.13
Beam 7	564.85	565.26	565.34	565.44	565.78	565.88	565.98	566.01	565.92	565.83	565.50	565.40	565.32	564.92
Beam 8	564.64	565.05	565.13	565.23	565.57	565.67	565.77	565.79	565.71	565.62	565.29	565.19	565.11	564.71
Beam 9	564.43	564.84	564.92	565.02	565.36	565.46	565.56	565.58	565.50	565.41	565.08	564.98	564.90	564.50
Beam 10	564.22	564.63	564.71	564.81	565.15	565.25	565.35	565.37	565.29	565.21	564.88	564.78	564.70	564.29
Beam 11	564.01	564.42	564.50	564.60	564.94	565.04	565.14	565.17	565.08	565.00	564.67	564.57	564.49	564.08
Beam 12	563.80	564.21	564.29	564.39	564.73	564.83	564.93	564.96	564.87	564.79	564.46	564.36	564.28	563.87

* For fabrication only



CAMBER DIAGRAM

DESIGNED	JJD
CHECKED	EML
DRAWN	JJD
CHECKED	EML