

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 27
52 SHEETS

TABLE OF "L" DIMENSIONS

Contract #72789

Beam No.	Radius (ft.)	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	L ₉	L ₁₀	L ₁₁	L ₁₂	L ₁₃	L ₁₄	L ₁₅	L ₁₆	L ₁₇	L ₁₈
1	3,863.40	585'-1 ⁵ / ₈ "	110'-9 ¹ / ₆ "	121'-1 ⁵ / ₆ "	121'-3 ⁷ / ₆ "	121'-1 ⁵ / ₆ "	110'-9 ¹ / ₆ "	87'-3 ¹ / ₆ "	23'-6"	29'-0"	68'-1 ⁵ / ₆ "	24'-0"	24'-0"	73'-3 ¹ / ₆ "	24'-0"	24'-0"	68'-1 ⁵ / ₆ "	29'-0"	23'-6"	87'-3 ¹ / ₆ "
2	3,855.90	584'-0"	110'-6 ¹ / ₆ "	120'-11 ⁸ / ₈ "	121'-0 ⁵ / ₈ "	120'-11 ⁸ / ₈ "	110'-6 ¹ / ₆ "	87'-1"	23'-5 ¹ / ₆ "	28'-11 ⁵ / ₆ "	68'-0 ³ / ₈ "	23'-11 ¹ / ₆ "	23'-11 ¹ / ₆ "	73'-1 ³ / ₄ "	23'-11 ¹ / ₆ "	23'-11 ¹ / ₆ "	68'-0 ³ / ₈ "	28'-11 ⁵ / ₆ "	23'-5 ¹ / ₆ "	87'-1 ⁴ / ₈ "
3	3,848.40	582'-10 ³ / ₈ "	110'-3 ⁸ / ₈ "	120'-8 ³ / ₆ "	120'-9 ³ / ₄ "	120'-8 ³ / ₆ "	110'-4 ⁸ / ₈ "	86'-11"	23'-4 ⁸ / ₈ "	28'-10 ⁵ / ₈ "	67'-10 ¹ / ₆ "	23'-10 ⁸ / ₈ "	23'-10 ⁸ / ₈ "	73'-0"	23'-10 ⁸ / ₈ "	23'-10 ⁸ / ₈ "	67'-10 ¹ / ₆ "	28'-10 ⁵ / ₈ "	23'-4 ⁸ / ₈ "	86'-11 ⁴ / ₈ "
4	3,840.90	581'-8 ³ / ₄ "	110'-1 ⁴ / ₄ "	120'-5 ² / ₆ "	120'-6 ⁵ / ₆ "	120'-5 ² / ₆ "	110'-1 ⁹ / ₆ "	86'-8 ⁵ / ₆ "	23'-4 ⁵ / ₆ "	28'-9 ⁵ / ₆ "	67'-9 ⁴ / ₄ "	23'-10 ⁵ / ₆ "	23'-10 ⁵ / ₆ "	72'-10 ⁵ / ₆ "	23'-10 ⁵ / ₆ "	23'-10 ⁵ / ₆ "	67'-9 ⁴ / ₄ "	28'-9 ⁵ / ₆ "	23'-4 ⁵ / ₆ "	86'-9 ⁴ / ₄ "
5	3,833.40	580'-7 ⁸ / ₈ "	109'-10 ¹ / ₆ "	120'-2 ¹ / ₆ "	120'-4 ⁸ / ₈ "	120'-2 ¹ / ₆ "	109'-10 ¹ / ₆ "	86'-6 ⁵ / ₆ "	23'-3 ⁴ / ₄ "	28'-9 ⁴ / ₄ "	67'-7 ¹ / ₆ "	23'-9 ⁴ / ₄ "	23'-9 ⁴ / ₄ "	72'-8 ³ / ₈ "	23'-9 ⁴ / ₄ "	23'-9 ⁴ / ₄ "	67'-7 ¹ / ₆ "	28'-9 ⁴ / ₄ "	23'-3 ⁴ / ₄ "	86'-7 ⁸ / ₈ "
6	3,825.90	579'-5 ² / ₂ "	109'-8 ¹ / ₆ "	119'-11 ⁸ / ₈ "	120'-1 ⁵ / ₆ "	119'-11 ⁸ / ₈ "	109'-8 ¹ / ₆ "	86'-4 ⁸ / ₈ "	23'-3 ³ / ₆ "	28'-8 ³ / ₈ "	67'-6 ¹ / ₆ "	23'-9 ³ / ₆ "	23'-9 ³ / ₆ "	72'-6 ⁵ / ₆ "	23'-9 ³ / ₆ "	23'-9 ³ / ₆ "	67'-6 ¹ / ₆ "	28'-8 ³ / ₈ "	23'-3 ⁴ / ₄ "	86'-5 ⁸ / ₈ "
7	3,818.40	578'-3 ⁸ / ₈ "	109'-5 ⁸ / ₈ "	119'-9"	119'-10 ¹ / ₆ "	119'-9"	109'-5 ⁸ / ₈ "	86'-2 ⁸ / ₈ "	23'-2 ³ / ₄ "	28'-7 ⁸ / ₈ "	67'-4 ² / ₂ "	23'-8 ⁵ / ₆ "	23'-8 ⁵ / ₆ "	72'-5 ³ / ₆ "	23'-8 ⁵ / ₆ "	23'-8 ⁵ / ₆ "	67'-4 ² / ₂ "	28'-7 ⁸ / ₈ "	23'-2 ¹ / ₆ "	86'-3 ⁸ / ₈ "
8	3,810.90	577'-2 ⁴ / ₄ "	109'-3"	119'-6 ⁴ / ₄ "	119'-7 ³ / ₈ "	119'-6 ⁴ / ₄ "	109'-3 ¹ / ₆ "	86'-0 ¹ / ₆ "	23'-2 ¹ / ₆ "	28'-7 ⁴ / ₄ "	67'-2 ⁸ / ₈ "	23'-8 ⁸ / ₈ "	23'-8 ⁸ / ₈ "	72'-3 ² / ₂ "	23'-8 ⁸ / ₈ "	23'-8 ⁸ / ₈ "	67'-2 ⁸ / ₈ "	28'-7 ⁴ / ₄ "	23'-2 ⁸ / ₈ "	86'-1 ⁶ / ₆ "
9	3,803.40	576'-0 ⁵ / ₈ "	109'-0 ¹ / ₆ "	119'-3 ³ / ₈ "	119'-4 ¹ / ₆ "	119'-3 ³ / ₈ "	109'-0 ⁵ / ₈ "	85'-10 ¹ / ₆ "	23'-1 ⁵ / ₈ "	28'-6 ⁹ / ₆ "	67'-1 ⁵ / ₆ "	23'-7 ² / ₂ "	23'-7 ² / ₂ "	72'-1 ¹ / ₆ "	23'-7 ² / ₂ "	23'-7 ² / ₂ "	67'-1 ⁵ / ₆ "	28'-6 ⁹ / ₆ "	23'-1 ⁵ / ₈ "	85'-11"
10	3,795.90	574'-11"	108'-9 ¹ / ₆ "	119'-0 ⁹ / ₆ "	119'-2"	119'-0 ⁹ / ₆ "	108'-9 ¹ / ₆ "	85'-8 ³ / ₄ "	23'-1 ⁶ / ₆ "	28'-5 ⁸ / ₈ "	66'-11 ³ / ₄ "	23'-6 ¹ / ₆ "	23'-6 ¹ / ₆ "	72'-0 ⁸ / ₈ "	23'-6 ¹ / ₆ "	23'-6 ¹ / ₆ "	66'-11 ³ / ₄ "	28'-5 ⁸ / ₈ "	23'-1 ⁶ / ₆ "	85'-9"
11	3,788.40	573'-9 ⁵ / ₆ "	108'-7 ³ / ₆ "	118'-9 ³ / ₄ "	118'-11 ³ / ₆ "	118'-9 ³ / ₄ "	108'-7 ³ / ₆ "	85'-6 ¹ / ₆ "	23'-0 ² / ₂ "	28'-5 ⁴ / ₄ "	66'-10 ⁸ / ₈ "	23'-6 ³ / ₈ "	23'-6 ³ / ₈ "	71'-10 ¹ / ₆ "	23'-6 ³ / ₈ "	23'-6 ³ / ₈ "	66'-10 ⁸ / ₈ "	28'-5 ⁴ / ₄ "	23'-0 ² / ₂ "	85'-6 ⁵ / ₆ "
12	3,780.90	572'-7 ¹ / ₆ "	108'-4 ⁸ / ₈ "	118'-6 ¹ / ₆ "	118'-8 ¹ / ₆ "	118'-6 ¹ / ₆ "	108'-4 ⁸ / ₈ "	85'-4 ⁵ / ₈ "	23'-0"	28'-4 ⁹ / ₆ "	66'-8 ² / ₂ "	23'-5 ⁸ / ₈ "	23'-5 ⁸ / ₈ "	71'-8 ⁹ / ₆ "	23'-5 ⁸ / ₈ "	23'-5 ⁸ / ₈ "	66'-8 ² / ₂ "	28'-4 ⁹ / ₆ "	23'-0"	85'-4 ⁸ / ₈ "

TABLE OF OFFSET DIMENSIONS

Beam No.	C Brg. N. Abut.		C Splice 1		C Pier 1		C Splice 2		C Splice 3		C Pier 2		C Splice 4		C Splice 5		C Pier 3	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
1	295'-3 ⁹ / ₆ "	11'-3 ⁵ / ₂ "	208'-2 ¹ / ₆ "	5'-7 ³ / ₈ "	184'-9 ⁹ / ₈ "	4'-5 ¹ / ₆ "	155'-9 ³ / ₂ "	3'-1 ¹ / ₆ "	87'-8"	0'-11 ⁵ / ₆ "	63'-8"	0'-6 ⁵ / ₆ "	39'-8 ¹ / ₆ "	0'-2 ¹ / ₆ "	33'-7 ⁵ / ₆ "	0'-1 ³ / ₄ "	57'-7 ³ / ₈ "	0'-5 ¹ / ₈ "
2	294'-8 ¹ / ₆ "	11'-3 ³ / ₈ "	207'-9 ⁸ / ₈ "	5'-7 ⁴ / ₄ "	184'-4 ⁷ / ₈ "	4'-4 ¹ / ₆ "	155'-5 ³ / ₄ "	3'-1 ⁵ / ₈ "	87'-5 ¹ / ₆ "	0'-11 ⁵ / ₆ "	63'-6 ² / ₂ "	0'-6 ⁵ / ₆ "	39'-7 ⁵ / ₆ "	0'-2 ¹ / ₆ "	33'-6 ⁹ / ₆ "	0'-1 ³ / ₄ "	57'-6"	0'-5 ⁸ / ₈ "
3	294'-1 ¹ / ₆ "	11'-3 ³ / ₈ "	207'-5"	5'-7 ⁶ / ₆ "	184'-0 ⁹ / ₆ "	4'-4 ¹ / ₆ "	155'-2 ¹ / ₆ "	3'-1 ⁹ / ₆ "	87'-3 ⁵ / ₆ "	0'-11 ⁵ / ₆ "	63'-5 ¹ / ₆ "	0'-6 ⁴ / ₄ "	39'-6 ⁴ / ₄ "	0'-2 ¹ / ₆ "	33'-5 ³ / ₆ "	0'-1 ³ / ₄ "	57'-4 ¹ / ₆ "	0'-5 ⁸ / ₈ "
4	293'-6 ⁵ / ₆ "	11'-2 ¹ / ₆ "	207'-0 ¹ / ₈ "	5'-7"	183'-8 ⁴ / ₄ "	4'-4 ³ / ₄ "	154'-10 ² / ₂ "	3'-1 ² / ₂ "	87'-1 ⁸ / ₈ "	0'-11 ⁸ / ₈ "	63'-3 ⁹ / ₆ "	0'-6 ⁴ / ₄ "	39'-5 ⁵ / ₆ "	0'-2 ¹ / ₆ "	33'-5"	0'-1 ³ / ₄ "	57'-3 ⁵ / ₆ "	0'-5 ⁸ / ₈ "
5	293'-0 ¹ / ₆ "	11'-2 ⁹ / ₆ "	206'-7 ¹ / ₆ "	5'-6 ⁷ / ₈ "	183'-3 ⁵ / ₆ "	4'-4 ⁸ / ₈ "	154'-6 ⁷ / ₈ "	3'-1 ¹ / ₆ "	86'-11 ¹ / ₆ "	0'-11 ⁸ / ₈ "	63'-2 ¹ / ₆ "	0'-6 ⁴ / ₄ "	39'-4 ³ / ₈ "	0'-2 ¹ / ₆ "	33'-4 ³ / ₆ "	0'-1 ³ / ₄ "	57'-2"	0'-5 ⁸ / ₈ "
6	292'-5 ³ / ₆ "	11'-2 ¹ / ₆ "	206'-2 ¹ / ₆ "	5'-6 ⁴ / ₄ "	182'-11 ⁵ / ₈ "	4'-4 ⁹ / ₆ "	154'-3 ⁴ / ₄ "	3'-1 ⁵ / ₆ "	86'-9 ¹ / ₆ "	0'-11 ¹ / ₆ "	63'-0 ⁹ / ₆ "	0'-6 ⁴ / ₄ "	39'-3 ¹ / ₆ "	0'-2 ¹ / ₆ "	33'-3 ¹ / ₆ "	0'-1 ³ / ₄ "	57'-0 ⁵ / ₈ "	0'-5 ⁸ / ₈ "
7	291'-10 ¹ / ₆ "	11'-2 ¹ / ₆ "	205'-9 ¹ / ₆ "	5'-6 ⁵ / ₈ "	182'-7 ¹ / ₆ "	4'-4 ¹ / ₆ "	153'-11 ⁵ / ₈ "	3'-1 ⁴ / ₄ "	86'-7 ³ / ₄ "	0'-11 ¹ / ₆ "	62'-11 ⁸ / ₈ "	0'-6 ⁴ / ₄ "	39'-2 ¹ / ₆ "	0'-2 ¹ / ₆ "	33'-2 ⁵ / ₆ "	0'-1 ³ / ₄ "	56'-11 ⁵ / ₆ "	0'-5 ⁸ / ₈ "
8	291'-3 ¹ / ₆ "	11'-1 ¹ / ₆ "	205'-4 ³ / ₄ "	5'-6 ¹ / ₆ "	182'-3"	4'-4 ⁵ / ₆ "	153'-8"	3'-1 ³ / ₆ "	86'-5 ¹ / ₆ "	0'-11 ³ / ₆ "	62'-9 ⁸ / ₈ "	0'-6 ³ / ₆ "	39'-1 ⁸ / ₈ "	0'-2 ¹ / ₆ "	33'-1 ⁸ / ₈ "	0'-1 ³ / ₄ "	56'-9 ¹ / ₆ "	0'-5 ¹ / ₆ "
9	290'-8 ¹ / ₆ "	11'-1 ² / ₂ "	204'-11 ⁸ / ₈ "	5'-6 ⁵ / ₆ "	181'-10 ³ / ₄ "	4'-4 ⁴ / ₄ "	153'-4 ³ / ₈ "	3'-1 ⁸ / ₈ "	86'-3 ¹ / ₆ "	0'-11 ³ / ₄ "	62'-8 ⁸ / ₈ "	0'-6 ³ / ₆ "	39'-0 ¹ / ₆ "	0'-2 ¹ / ₆ "	33'-1 ¹ / ₆ "	0'-1 ³ / ₄ "	56'-8 ⁵ / ₈ "	0'-5 ¹ / ₆ "
10	290'-1 ¹ / ₆ "	11'-1 ⁴ / ₄ "	204'-7 ¹ / ₆ "	5'-6 ³ / ₆ "	181'-6 ¹ / ₆ "	4'-4 ⁸ / ₈ "	153'-0 ³ / ₄ "	3'-1 ⁶ / ₆ "	86'-1 ⁵ / ₆ "	0'-11 ³ / ₆ "	62'-6 ⁸ / ₈ "	0'-6 ³ / ₆ "	38'-11 ³ / ₄ "	0'-2 ¹ / ₆ "	33'-0 ⁴ / ₄ "	0'-1 ³ / ₄ "	56'-7 ⁴ / ₄ "	0'-5 ¹ / ₆ "
11	289'-6 ¹ / ₆ "	11'-1"	204'-2 ³ / ₆ "	5'-6 ¹ / ₆ "	181'-2 ¹ / ₈ "	4'-4"	152'-9 ⁸ / ₈ "	3'-1"	85'-11 ⁹ / ₆ "	0'-11 ¹ / ₆ "	62'-5 ³ / ₆ "	0'-6 ³ / ₆ "	38'-10 ¹ / ₆ "	0'-2 ³ / ₈ "	32'-11 ² / ₂ "	0'-1 ³ / ₄ "	56'-5 ¹ / ₆ "	0'-5 ¹ / ₆ "
12	288'-11 ⁸ / ₈ "	11'-0 ³ / ₄ "	203'-9 ¹ / ₆ "	5'-5 ¹ / ₆ "	180'-9 ¹ / ₆ "	4'-3 ¹ / ₆ "	152'-5 ¹ / ₂ "	3'-0 ⁸ / ₈ "	85'-9 ⁹ / ₆ "	0'-11 ¹ / ₆ "	62'-3 ¹ / ₆ "	0'-6 ³ / ₆ "	38'-9 ¹ / ₆ "	0'-2 ³ / ₈ "	32'-10 ¹ / ₆ "	0'-1 ¹ / ₆ "	56'-4 ⁹ / ₆ "	0'-5 ¹ / ₆ "

Beam No.	C Splice 6		C Splice 7		C Pier 4		C Splice 8		C Brg. S. Abut.	
	X	Y	X	Y	X	Y	X	Y	X	Y
1	81'-7 ¹ / ₄ "	0'-10 ⁵ / ₆ "	149'-8 ⁵ / ₆ "	2'-10 ¹ / ₆ "	178'-8 ⁹ / ₆ "	4'-1 ⁵ / ₈ "	202'-2 ¹ / ₄ "	5'-3 ⁹ / ₆ "	289'-3 ³ / ₈ "	10'-10 ¹ / ₈ "
2	81'-5 ⁸ / ₈ "	0'-10 ⁵ / ₆ "	149'-5 ¹ / ₆ "	2'-10 ⁴ / ₄ "	178'-4 ¹ / ₆ "	4'-1 ⁹ / ₆ "	201'-9 ⁹ / ₆ "	5'-3 ¹ / ₆ "	288'-8 ⁵ / ₈ "	10'-9 ⁷ / ₈ "
3	81'-3 ¹ / ₆ "	0'-10 ⁵ / ₆ "	149'-1 ⁵ / ₆ "	2'-10 ¹ / ₆ "	178'-0 ⁴ / ₄ "	4'-1 ⁶ / ₆ "	201'-4 ⁸ / ₈ "	5'-3 ⁵ / ₆ "	288'-1 ⁸ / ₈ "	10'-9 ⁵ / ₈ "
4	81'-1 ⁹ / ₆ "	0'-10 ⁵ / ₆ "	148'-10 ² / ₂ "	2'-10 ⁸ / ₈ "	177'-8 ¹ / ₆ "	4'-1 ⁵ / ₆ "	201'-0 ⁸ / ₈ "	5'-3 ¹ / ₆ "	287'-7 ⁸ / ₈ "	10'-9 ³ / ₈ "
5	80'-11 ⁵ / ₈ "	0'-10 ¹ / ₄ "	148'-7"	2'-10 ⁹ / ₆ "	177'-3 ⁵ / ₆ "	4'-1 ⁴ / ₄ "	200'-7 ¹ / ₆ "	5'-3 ¹ / ₆ "	287'-0 ¹ / ₆ "	10'-9 ¹ / ₆ "
6	80'-9 ³ / ₄ "	0'-10 ⁴ / ₄ "	148'-3 ¹ / ₂ "	2'-10 ² / ₂ "	176'-11 ³ / ₄ "					