

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 150' BRIDGE

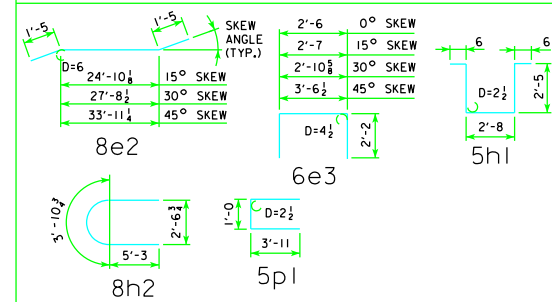
LOCATION	SKEW	SHAPE	BAR	0°		15°		30°		45°	
				NO.	LENGTH/WEIGHT	NO.	LENGTH/WEIGHT	NO.	LENGTH/WEIGHT	NO.	LENGTH/WEIGHT
SLAB LONGITUDINAL BOTTOM			10a1	31	32'-4 4313	31	32'-4 4313	31	32'-4 4313	31	32'-4 4313
SLAB LONGITUDINAL BOTTOM			10a2	31	48'-4 6447	31	48'-4 6447	31	48'-4 6447	31	48'-4 6447
SLAB LONGITUDINAL BOTTOM			10a3	31	45'-4 6047	31	45'-4 6047	31	45'-4 6047	31	45'-4 6047
SLAB LONGITUDINAL BOTTOM			9a4	32	36'-1 3926	32	36'-1 3926	32	36'-1 3926	32	36'-1 3926
SLAB LONGITUDINAL BOTTOM			9a5	16	42'-6 2312	16	42'-6 2312	16	42'-6 2312	16	42'-6 2312
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	43'-11 1195	8	43'-11 1195	8	43'-11 1195	8	43'-11 1195
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a7	8	13'-0 354	8	13'-0 354	8	13'-0 354	8	13'-0 354
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a8	4	53'-2 723	4	53'-2 723	4	53'-2 723	4	53'-2 723
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a9	8	37'-1 1277	8	37'-1 1277	8	37'-1 1277	8	37'-1 1277
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a10	4	32'-0 551	4	32'-0 551	4	32'-0 551	4	32'-0 551
SLAB LONGITUDINAL TOP			6b1	31	6'-4 295	31	6'-4 295	31	6'-4 295	31	6'-4 295
SLAB LONGITUDINAL TOP			11b2	31	30'-3 4982	31	30'-3 4982	31	30'-3 4982	31	30'-3 4982
SLAB LONGITUDINAL TOP			11b3	31	26'-0 4282	31	26'-0 4282	31	26'-0 4282	31	26'-0 4282
SLAB LONGITUDINAL TOP			8b4	31	32'-2 2662	31	32'-2 2662	31	32'-2 2662	31	32'-2 2662
SLAB LONGITUDINAL TOP			11b5	32	27'-6 4675	32	27'-6 4675	32	27'-6 4675	32	27'-6 4675
SLAB LONGITUDINAL TOP			6b6	16	39'-0 937	16	39'-0 937	16	39'-0 937	16	39'-0 937
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	34'-6 415	8	34'-6 415	8	34'-6 415	8	34'-6 415
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	33'-0 1403	8	33'-0 1403	8	33'-0 1403	8	33'-0 1403
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	29'-4 176	4	29'-4 176	4	29'-4 176	4	29'-4 176
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	40'-0 654	8	40'-0 654	8	40'-0 654	8	40'-0 654
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	23'-0 978	8	23'-0 978	8	23'-0 978	8	23'-0 978
SLAB TRANSVERSE, BOTTOM			6c1	147	26'-10 5925	147	27'-9 6127	140	26'-10 5643	130	26'-10 5239
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	20	VARIES	494	VARIES
SLAB TRANSVERSE, TOP			5d1	147	26'-10 4114	147	27'-9 4255	140	26'-10 3918	130	26'-10 3638
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	20	VARIES	343	VARIES
SLAB, TRANSVERSE AT ABUTMENT			8e1	20	26'-10 1433	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	20	27'-8 1477	20	30'-7 1633	20	36'-9 1962
SLAB, HAIRPINS, AT ABUTMENT			6e3	60	6'-10 616	60	6'-11 623	60	7'-3 653	60	7'-11 713
PIER CAP HOOPS			5h1	36	8'-6 319	36	8'-6 319	36	8'-6 319	54	8'-6 479
PIER CAP ENDS			8h2	4	14'-5 154	4	14'-5 154	4	14'-5 154	4	14'-5 154
PIER CAP, BOTTOM LONGITUDINAL			8h3	8	23'-10 509	8	24'-8 527	8	27'-6 587	8	33'-8 719
PIER CAP, TOP LONGITUDINAL			8h4	4	26'-10 287	4	27'-9 296	4	30'-11 330	4	37'-11 405
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	292	8'-6 2589	292	8'-6 2589	292	8'-6 2589	290	8'-6 2571
WING, VERTICAL			5m1-4	32	SHOWN	117	32	SHOWN	117	32	SHOWN
WING, HORIZONTAL			5n1	24	6'-8 167	24	6'-8 167	24	6'-8 167	24	6'-8 167
PAVING SUPPORT, TRANSVERSE			5p1	24	8'-10 221	26	8'-10 240	28	8'-10 258	34	8'-10 313
PAVING SUPPORT LONGITUDINAL			5p3	6	24'-2 151	6	25'-0 156	6	27'-11 175	6	34'-1 213
SUB TOTAL - LBS.					65,206		65,651		65,984		66,846
OPEN RAIL - SEE LIST ON RAIL SHEET J24-41-06					9182		9182		9182		9182
TOTAL - LBS. WITH MONOLITHIC PIER CAP AND OPEN RAIL					74,388		74,833		75,166		76,028
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP AND OPEN RAIL					73,119		73,537		73,776		74,271
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED											

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 150' BRIDGE

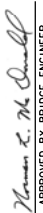
ITEM	SKEW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
		0°	15°	30°	45°	0°	15°	30°	45°
OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	327.5	328.3	331.0	336.8	323.3	324.0	326.2	331.0
	LBS.	74,388	74,833	75,166	76,028	73,119	73,537	73,776	74,271
OPEN RAIL	LIN. FT.	322.0	322.2	322.9	324.5	322.0	322.2	322.9	324.5

* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

12-07 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 24' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006	
		SUPERSTRUCTURE DETAILS 150'-0 BRIDGE	J24-19-06