

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 120' BRIDGE

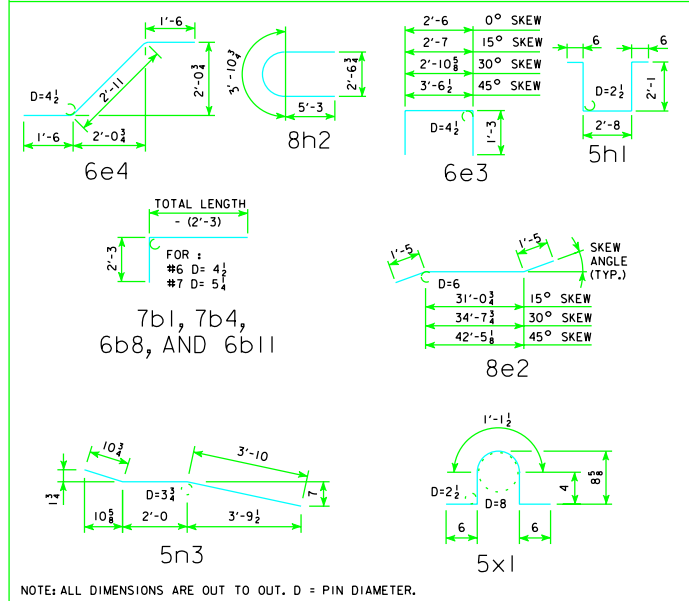
LOCATION	SKEW	SHAPE	BAR NO.	0°		15°		30°		45°				
				LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
SLAB LONGITUDINAL BOTTOM			9a1	39	25'-9	3415	39	25'-9	3415	39	25'-9	3415		
SLAB LONGITUDINAL BOTTOM			9a2	39	38'-9	5139	39	38'-9	5139	39	38'-9	5139		
SLAB LONGITUDINAL BOTTOM			9a3	39	36'-2	4796	39	36'-2	4796	39	36'-2	4796		
SLAB LONGITUDINAL BOTTOM			8a4	40	28'-3	3018	40	28'-3	3018	40	28'-3	3018		
SLAB LONGITUDINAL BOTTOM			9a5	20	34'-0	2312	20	34'-0	2312	20	34'-0	2312		
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	34'-4	934	8	34'-4	934	8	34'-4	934		
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a7	8	12'-0	327	8	12'-0	327	8	12'-0	327		
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a8	4	42'-2	574	4	42'-2	574	4	42'-2	574		
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	8	24'-6	524	8	24'-6	524	8	24'-6	524		
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a10	4	23'-6	251	4	23'-6	251	4	23'-6	251		
SLAB LONGITUDINAL TOP			7b1	39	8'-6	678	39	8'-6	678	39	8'-6	678		
SLAB LONGITUDINAL TOP			10b2	39	27'-6	4615	39	27'-6	4615	39	27'-6	4615		
SLAB LONGITUDINAL TOP			10b3	39	24'-9	4154	39	24'-9	4154	39	24'-9	4154		
SLAB LONGITUDINAL TOP			7b4	39	23'-5	1867	39	23'-5	1867	39	23'-5	1867		
SLAB LONGITUDINAL TOP			11b5	40	27'-9	5898	40	27'-9	5898	40	27'-9	5898		
SLAB LONGITUDINAL TOP			6b6	20	30'-0	902	20	30'-0	902	20	30'-0	902		
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	29'-5	354	8	29'-5	354	8	29'-5	354		
SLAB LONGITUDINAL TOP, AT RAIL			10b9	8	27'-0	930	8	27'-0	930	8	27'-0	930		
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	23'-10	144	4	23'-10	144	4	23'-10	144		
SLAB LONGITUDINAL TOP, AT RAIL			6b11	8	31'-11	384	8	31'-11	384	8	31'-11	384		
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	21'-0	893	8	21'-0	893	8	21'-0	893		
SLAB TRANSVERSE, BOTTOM			6c1	117	32'-10	5770	117	34'-0	5975	104	32'-10	5129		
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	30	VARIES	797	56		
SLAB TRANSVERSE, TOP			5d1	117	32'-10	4007	117	34'-0	4150	104	32'-10	3562		
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	30	VARIES	553	56		
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	32'-10	1578	-	-	-	-	-	-		
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	18	33'-11	1631	18	37'-6	1803		
SLAB, HAIRPINS, AT ABUTMENT			6e3	72	5'-0	541	72	5'-1	550	72	5'-5	586		
SLAB, HAIRPINS, AT ABUTMENT			6e4	72	5'-11	640	72	5'-11	640	72	5'-11	640		
SLAB, DIAGONALS, AT ABUTMENT			5h1	40	7'-10	327	40	7'-10	327	40	7'-10	327		
PIER CAP HOOPS			8h2	4	14'-5	154	4	14'-5	154	4	14'-5	154		
PIER CAP, BOTTOM LONGITUDINAL			8h3	8	29'-10	638	8	30'-11	661	8	34'-5	736		
PIER CAP, TOP LONGITUDINAL			8h4	4	32'-10	351	4	34'-0	364	4	37'-11	405		
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	232	8'-6	2057	232	8'-6	2057	232	8'-6	2057		
WING, VERTICAL			5m1	40	4'-5	185	40	4'-5	185	40	4'-5	185		
WING, HORIZONTAL BACK FACE			5n1	24	6'-8	167	24	6'-8	167	24	6'-8	167		
WING, HORIZONTAL TRAFFIC FACE			5n3	24	6'-9	169	24	6'-9	169	24	6'-9	169		
PAVING BLOCK LIFTING HOOPS			5x1	10	2'-10	30	10	2'-10	30	10	2'-10	30		
SUB TOTAL - LBS.						58,723			59,169			59,573		60,260
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06									7536					7536
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06									8061					8061
TOTAL - LBS.									66,259					67,796
									66,784					67,321
TOTAL - LBS.									64,789					65,753
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED									65,314					66,278

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 120' BRIDGE

ITEM	SKEW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
		0°	15°	30°	45°	0°	15°	30°	45°
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		271.4	272.1	274.8	280.4	266.8	267.4	269.6	274.1
BARRIER RAIL REINFORCING STEEL LBS.		66,259	66,705	67,109	67,796	64,789	65,199	65,323	65,753
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		262.0	262.2	262.9	264.5	262.0	262.2	262.9	264.5
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		271.2	271.9	274.6	280.2	266.6	267.1	269.3	273.8
OPEN RAIL REINFORCING STEEL LBS.		66,784	67,230	67,634	68,321	65,314	65,724	65,848	66,278

* INCLUDES 4 WINGS @ 0.68 C.Y. EACH AND 2 TEMPORARY PAVING BLOCKS; EXCLUDES RAIL CONCRETE.

BENT BAR DETAILS



07-09 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division
		STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
		SUPERSTRUCTURE DETAILS 120'-0 BRIDGE
NON-EPOXY COATED REINFORCING		

REVISED 07-09 - OPEN RAIL REINF. QTY'S. CHANGED WHICH CHANGED TOTAL REINF. QTY'S.