

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	31	25'-9	2715	31	25'-9	2715	31	25'-9	2715			
SLAB LONGITUDINAL BOTTOM			9a2	31	38'-9	4085	31	38'-9	4085	31	38'-9	4085			
SLAB LONGITUDINAL BOTTOM			9a3	31	36'-2	3812	31	36'-2	3812	31	36'-2	3812			
SLAB LONGITUDINAL BOTTOM			8a4	32	28'-3	2414	32	28'-3	2414	32	28'-3	2414			
SLAB LONGITUDINAL BOTTOM			9a5	16	34'-0	1850	16	34'-0	1850	16	34'-0	1850			
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	31	8'-6	539	31	8'-6	539	31	8'-6	539			
SLAB LONGITUDINAL TOP			10b2	31	27'-6	3669	31	27'-6	3669	31	27'-6	3669			
SLAB LONGITUDINAL TOP			10b3	31	24'-9	3302	31	24'-9	3302	31	24'-9	3302			
SLAB LONGITUDINAL TOP			7b4	31	23'-5	1484	31	23'-5	1484	31	23'-5	1484			
SLAB LONGITUDINAL TOP			11b5	32	27'-9	4718	32	27'-9	4718	32	27'-9	4718			
SLAB LONGITUDINAL TOP			6b6	16	30'-0	721	16	30'-0	721	16	30'-0	721			
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	26'-10	4716	117	27'-9	4877	106	26'-10	4273			
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	24	VARIES	579	44	VARIES	970	
SLAB TRANSVERSE, TOP			5d1	117	26'-10	3275	117	27'-9	3387	106	26'-10	2967	96	26'-10	2687
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	24	VARIES	402	44	VARIES	674	
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	26'-10	1290	-	-	-	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	18	27'-8	1330	18	30'-7	1470	18	36'-9	1767
SLAB, HAIRPINS, AT ABUTMENT			6e3	60	5'-0	451	60	5'-1	459	60	5'-5	489	60	6'-1	549
SLAB, DIAGONALS, AT ABUTMENT			6e4	60	5'-11	534	60	5'-11	534	60	5'-11	534	60	5'-11	534
PIER CAP HOOPS			5h1	32	7'-10	262	32	7'-10	262	48	7'-10	393	48	7'-10	393
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	510	8	24'-8	527	8	27'-6	588	8	33'-8	720
PIER CAP, TOP LONGITUDINAL			8h4	4	26'-10	287	4	27'-9	297	4	30'-11	331	4	37'-11	405
TOP OF SLAB, TRANSVERSE,, AT RAIL			5j1	232	8'-6	2057	232	8'-6	2057	232	8'-6	2057	230	8'-6	2040
WING, VERTICAL			5m1	40	4'-5	185	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	24	6'-8	167
WING, HORIZONTAL TRAFFIC FACE			5n3	24	6'-9	169	24	6'-9	169	24	6'-9	169	24	6'-9	169
PAVING BLOCK LIFTING HOOPS			5x1	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24

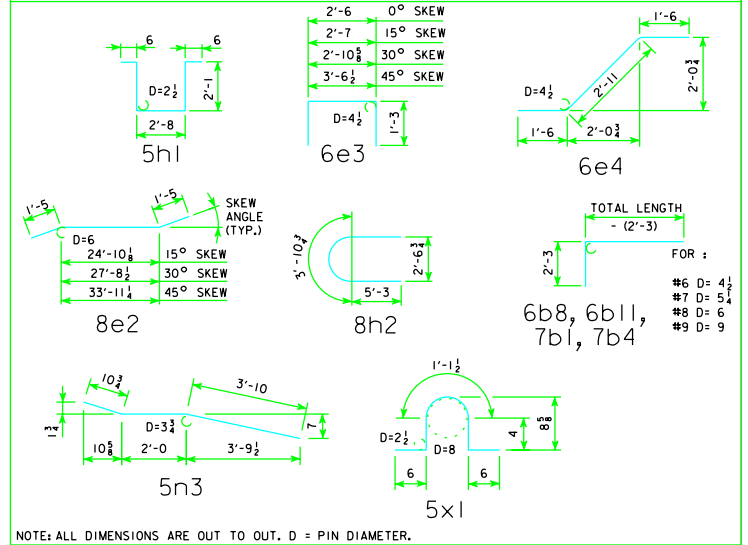
SUB TOTAL - LBS.		48,705	49,053	49,406	49,932
OPEN RAIL - SEE LIST ON RAIL SHEET J24-41-06		8061	8061	8061	8061
TOTAL - LBS. WITH MONOLITHIC PIER CAP AND OPEN RAIL		56,766	57,114	57,467	57,993
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP AND OPEN RAIL		55,553	55,874	56,001	56,321
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED					

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°
OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	222.5	223.1	225.3	229.9	218.3	218.7	220.5	224.1
	REINFORCING STEEL	LBS. 56,766	57,114	57,467	57,993	55,553	55,874	56,001	56,321
OPEN RAIL	LIN. FT.	262.0	262.2	262.9	264.5	262.0	262.2	262.9	264.5

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

BENT BAR DETAILS



07-09 LATEST REVISION DATE	M. C. M. [Signature] APPROVED BY BRIDGE ENGINEER	<p>Iowa Department of Transportation Highway Division</p>
		STANDARD DESIGN - 24' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
		SUPERSTRUCTURE DETAILS 120'-0 BRIDGE

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