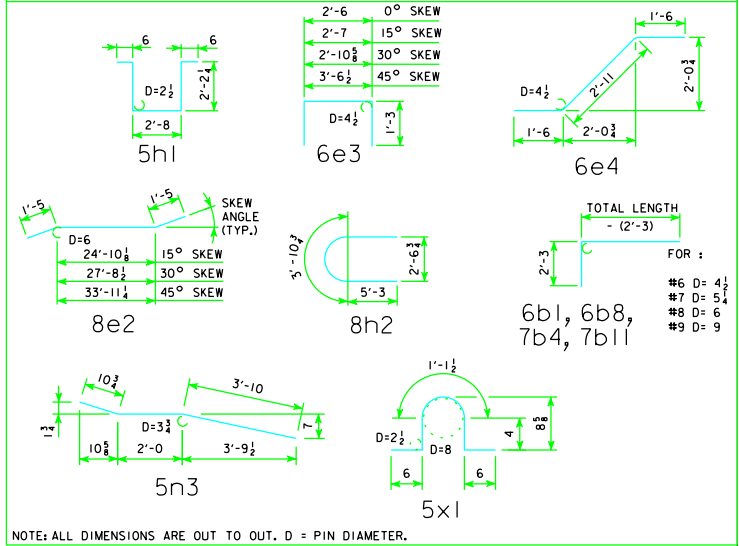


BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 130' BRIDGE

LOCATION	SKEW	SHAPE	0°				15°				30°				45°			
			BAR NO.	LENGTH	WEIGHT		BAR NO.	LENGTH	WEIGHT		BAR NO.	LENGTH	WEIGHT		BAR NO.	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM			9a1	31	27'-6	2899	31	27'-6	2899	31	27'-6	2899	31	27'-6	2899	31	27'-6	2899
SLAB LONGITUDINAL BOTTOM			9a2	31	42'-0	4427	31	42'-0	4427	31	42'-0	4427	31	42'-0	4427	31	42'-0	4427
SLAB LONGITUDINAL BOTTOM			9a3	31	38'-9	4085	31	38'-9	4085	31	38'-9	4085	31	38'-9	4085	31	38'-9	4085
SLAB LONGITUDINAL BOTTOM			9a4	32	31'-6	3428	32	31'-6	3428	32	31'-6	3428	32	31'-6	3428	32	31'-6	3428
SLAB LONGITUDINAL BOTTOM			10a5	16	38'-0	2617	16	38'-0	2617	16	38'-0	2617	16	38'-0	2617	16	38'-0	2617
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	36'-10	1002	8	36'-10	1002	8	36'-10	1002	8	36'-10	1002	8	36'-10	1002
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a7	8	13'-0	354	8	13'-0	354	8	13'-0	354	8	13'-0	354	8	13'-0	354
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a8	4	45'-2	615	4	45'-2	615	4	45'-2	615	4	45'-2	615	4	45'-2	615
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	8	30'-3	647	8	30'-3	647	8	30'-3	647	8	30'-3	647	8	30'-3	647
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a10	4	26'-4	359	4	26'-4	359	4	26'-4	359	4	26'-4	359	4	26'-4	359
SLAB LONGITUDINAL TOP			6b1	31	7'-6	350	31	7'-6	350	31	7'-6	350	31	7'-6	350	31	7'-6	350
SLAB LONGITUDINAL TOP			11b2	31	26'-3	4324	31	26'-3	4324	31	26'-3	4324	31	26'-3	4324	31	26'-3	4324
SLAB LONGITUDINAL TOP			11b3	31	28'-0	4612	31	28'-0	4612	31	28'-0	4612	31	28'-0	4612	31	28'-0	4612
SLAB LONGITUDINAL TOP			7b4	31	24'-2	1532	31	24'-2	1532	31	24'-2	1532	31	24'-2	1532	31	24'-2	1532
SLAB LONGITUDINAL TOP			10b5	32	23'-6	3236	32	23'-6	3236	32	23'-6	3236	32	23'-6	3236	32	23'-6	3236
SLAB LONGITUDINAL TOP			6b6	16	35'-6	854	16	35'-6	854	16	35'-6	854	16	35'-6	854	16	35'-6	854
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	30'-11	372	8	30'-11	372	8	30'-11	372	8	30'-11	372	8	30'-11	372
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	30'-3	1286	8	30'-3	1286	8	30'-3	1286	8	30'-3	1286	8	30'-3	1286
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	24'-4	147	4	24'-4	147	4	24'-4	147	4	24'-4	147	4	24'-4	147
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	35'-11	588	8	35'-11	588	8	35'-11	588	8	35'-11	588	8	35'-11	588
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	21'-3	904	8	21'-3	904	8	21'-3	904	8	21'-3	904	8	21'-3	904
SLAB TRANSVERSE BOTTOM			6c1	127	26'-10	5119	127	27'-9	5294	116	26'-10	4676	106	26'-10	4273			
SLAB TRANSVERSE ENDS, BOTTOM			6c2						24	VARIES	579	44	VARIES	970				
SLAB TRANSVERSE, TOP			5d1	127	26'-10	3555	127	27'-9	3676	116	26'-10	3247	106	26'-10	2967			
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	36	8'-1	304	36	8'-1	304	36	8'-1	304	36	8'-1	456			
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	252	8'-6	2235	252	8'-6	2235	252	8'-6	2235	250	8'-6	2217			
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.						53,622			53,993			54,192			54,869			
OPEN RAIL - SEE LIST ON RAIL SHEET J24-41-06						8573			8573			8573			8573			
TOTAL - LBS. WITH MONOLITHIC PIER CAP AND OPEN RAIL						62,195			62,566			62,765			63,442			
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP AND OPEN RAIL						60,940			61,284			61,388			61,707			
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED																		

BENT BAR DETAILS



ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 130' 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.	252.6	253.2	255.4	259.9	248.4	248.8	250.5	254.1
OPEN RAIL	REINFORCING STEEL LBS.	62,195	62,566	62,765	63,442	60,940	61,284	61,388	61,707
OPEN RAIL	LIN. FT.	282.0	282.2	282.9	284.5	282.0	282.2	282.9	284.5

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

07-09
LATEST REVISION DATE

Thomas R. McQuinn
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
130'-0 BRIDGE

J24-15-06