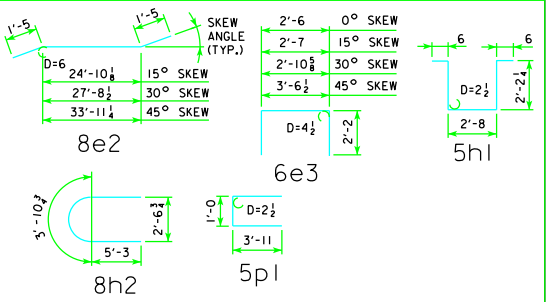
BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 130' BRIDGE

LOCATION \ SKEW	SHAPE	BAR	0° NO.	0° LENGTH	0° WEIGHT	15° NO.	15° LENGTH	15° WEIGHT	30° NO.	30° LENGTH	30° WEIGHT	45° NO.	45° LENGTH	45° WEIGHT
SLAB LONGITUDINAL BOTTOM		9a1	31	28'-7	3013	31	28'-7	3013	31	28'-7	3013	31	28'-7	3013
SLAB LONGITUDINAL BOTTOM		9a2	31	42'-0	4427	31	42'-0	4427	31	42'-0	4427	31	42'-0	4427
SLAB LONGITUDINAL BOTTOM		9a3	31	38'-9	4084	31	38'-9	4084	31	38'-9	4084	31	38'-9	4084
SLAB LONGITUDINAL BOTTOM		9a4	32	32'-7	3545	32	32'-7	3545	32	32'-7	3545	32	32'-7	3545
SLAB LONGITUDINAL BOTTOM		10a5	16	38'-0	2616	16	38'-0	2616	16	38'-0	2616	16	38'-0	2616
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a6	8	37'-11	1031	8	37'-11	1031	8	37'-11	1031	8	37'-11	1031
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	45'-2	614	4	45'-2	614	4	45'-2	614	4	45'-2	614
SLAB LONGITUDINAL BOTTOM, AT RAIL		8a9	8	31'-4	669	8	31'-4	669	8	31'-4	669	8	31'-4	669
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a10	4	26'-4	358	4	26'-4	358	4	26'-4	358	4	26'-4	358
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	26'-3	4323	31	26'-3	4323	31	26'-3	4323	31	26'-3	4323
SLAB LONGITUDINAL TOP		11b3	31	28'-0	4612	31	28'-0	4612	31	28'-0	4612	31	28'-0	4612
SLAB LONGITUDINAL TOP		7b4	31	23'-0	1457	31	23'-0	1457	31	23'-0	1457	31	23'-0	1457
SLAB LONGITUDINAL TOP		10b5	32	23'-6	3236	32	23'-6	3236	32	23'-6	3236	32	23'-6	3236
SLAB LONGITUDINAL TOP		6b6	16	35'-6	853	16	35'-6	853	16	35'-6	853	16	35'-6	853
SLAB LONGITUDINAL TOP, AT RAIL		6b8	8	29'-9	357	8	29'-9	357	8	29'-9	357	8	29'-9	357
SLAB LONGITUDINAL TOP, AT RAIL		11b9	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	146	4	24'-4	146	4	24'-4	146	4	24'-4	146
SLAB LONGITUDINAL TOP, AT RAIL		7b11	8	34'-9	568	8	34'-9	568	8	34'-9	568	8	34'-9	568
SLAB LONGITUDINAL TOP, AT RAIL		11b12	8	21'-3	903	8	21'-3	903	8	21'-3	903	8	21'-3	903
SLAB TRANSVERSE, BOTTOM		6c1	127	26'-10	5119	127	27'-9	5293	120	26'-10	4836	110	26'-10	4433
SLAB TRANSVERSE ENDS, BOTTOM		6c2	-	-	-	-	-	-	20	VARIES	494	40	VARIES	916
SLAB TRANSVERSE, TOP		5d1	127	26'-10	3554	127	27'-9	3676	120	26'-10	3358	110	26'-10	3079
SLAB TRANSVERSE ENDS, TOP		5d2	-	-	-	-	-	-	20	VARIES	343	40	VARIES	636
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'-1	304	36	8'-1	304	36	8'-1	304	54	8'-1	455
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	252	8'-6	2234	252	8'-6	2234	252	8'-6	2234	250	8'-6	2216
WING, VERTICAL		5m1-4	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117
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.					53,613			54,011			54,390			55,245
OPEN RAIL - SEE LIST ON RAIL SHEET J24-41-06					8150			8150			8150			8150
TOTAL - LBS. WITH MONOLITHIC PIER CAP AND OPEN RAIL					61,763			62,161			62,540			63,395
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP AND OPEN RAIL SAME AS ABOVE EXCEPT ALL "h" BARS DELETED					60,509			60,880			61,165			61,662

BENT BAR DETAILS



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

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 130' BRIDGE

ITEM		SKEW	WITH MONOLITHIC PIER CAP 0°	15°	30°	45°	WITH NON-MONOLITHIC PIER CAP 0°	15°	30°	45°
OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE)	C.Y.	258.0	258.8	261.6	267.5	253.8	254.5	256.7	261.7
	REINFORCING STEEL	LBS.	61,763	62,161	62,540	63,395	60,509	60,880	61,165	61,662
OPEN RAIL		LIN. FT.	282.0	282.2	282.9	284.5	282.0	282.2	282.9	284.5

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

REVISED 12-07 - OPEN RAIL REINFORCING QUANTITY CHANGED

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
130'-0 BRIDGE

J24-15-06