

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 140' BRIDGE

LOCATION	SKEW	SHAPE	BAR NO.	0°		15°		30°		45°		
				LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM			9a1	39	30'-6	4045	39	30'-6	4045	39	30'-6	4045
SLAB LONGITUDINAL BOTTOM			10a2	39	48'-6	8140	39	48'-6	8140	39	48'-6	8140
SLAB LONGITUDINAL BOTTOM			9a3	39	43'-9	5802	39	43'-9	5802	39	43'-9	5802
SLAB LONGITUDINAL BOTTOM			10a4	40	35'-3	6068	40	35'-3	6068	40	35'-3	6068
SLAB LONGITUDINAL BOTTOM			9a5	20	43'-0	2924	20	43'-0	2924	20	43'-0	2924
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	41'-7	1132	8	41'-7	1132	8	41'-7	1132
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a7	8	13'-0	354	8	13'-0	354	8	13'-0	354
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a8	4	52'-8	717	4	52'-8	717	4	52'-8	717
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a9	8	34'-3	932	8	34'-3	932	8	34'-3	932
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a10	4	33'-0	568	4	33'-0	568	4	33'-0	568
SLAB LONGITUDINAL TOP			6b1	39	7'-9	454	39	7'-9	454	39	7'-9	454
SLAB LONGITUDINAL TOP			11b2	39	26'-0	5388	39	26'-0	5388	39	26'-0	5388
SLAB LONGITUDINAL TOP			11b3	39	31'-9	6579	39	31'-9	6579	39	31'-9	6579
SLAB LONGITUDINAL TOP			7b4	39	25'-6	2033	39	25'-6	2033	39	25'-6	2033
SLAB LONGITUDINAL TOP			11b5	40	29'-0	6164	40	29'-0	6164	40	29'-0	6164
SLAB LONGITUDINAL TOP			6b6	20	34'-4	1032	20	34'-4	1032	20	34'-4	1032
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	32'-9	394	8	32'-9	394	8	32'-9	394
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	34'-0	1446	8	34'-0	1446	8	34'-0	1446
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	25'-6	154	4	25'-6	154	4	25'-6	154
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	38'-3	626	8	38'-3	626	8	38'-3	626
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	24'-3	1031	8	24'-3	1031	8	24'-3	1031
SLAB TRANSVERSE, BOTTOM			6c1	137	32'-10	6757	137	34'-0	6997	124	32'-10	6116
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	30	VARIES	797	56
SLAB TRANSVERSE, TOP			5d1	137	32'-10	4692	137	34'-0	4859	124	32'-10	4247
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, DIAGONALS, AT ABUTMENT			6e4	72	5'-11	640	72	5'-11	640	72	5'-11	640
PIER CAP HOOPS			5h1	44	8'-3	379	44	8'-3	379	44	8'-3	379
PIER CAP ENDS			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	272	8'-6	2412	272	8'-6	2412	272	8'-6	2412
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.					74,676		75,181		75,362		76,235
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06					8602		8602		8602		8602
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06					9057		9057		9057		9057
TOTAL - LBS.		WITH MONOLITHIC PIER CAP	WITH BARRIER RAIL		83,278		83,783		83,964		84,837
		WITH OPEN RAIL			83,733		84,238		84,419		85,292
TOTAL - LBS.		WITH NON-MONOLITHIC PIER CAP	WITH BARRIER RAIL		81,756		82,225		82,290		82,717
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED		WITH OPEN RAIL			82,211		82,680		82,745		83,172

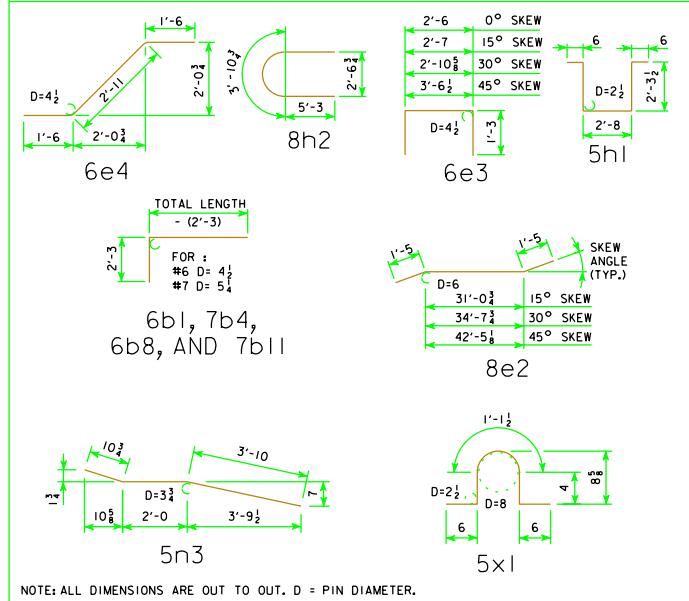
** BARS MAY BE NON-COATED AT CONTRACTOR'S OPTION.

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 140' 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.		347.4	348.1	350.7	356.2	342.8	343.4	345.5	349.8
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		83,278	83,783	83,964	84,837	81,756	82,225	82,290	82,717
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		302.0	302.2	302.9	304.5	302.0	302.2	302.9	304.5
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		347.2	347.9	350.5	355.9	342.6	343.1	345.2	349.5
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		83,733	84,238	84,419	85,292	82,211	82,680	82,745	83,172

* 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 140'-0 BRIDGE
EPOXY COATED REINFORCING		

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