

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 130' BRIDGE

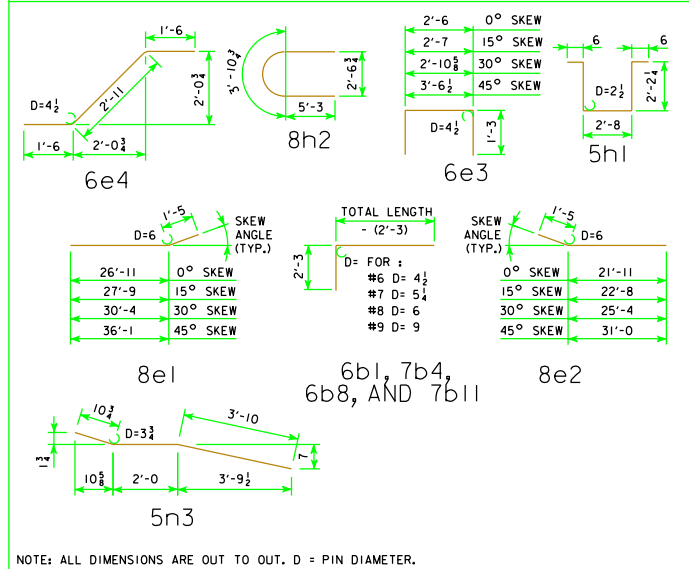
LOCATION	SKEW	SHAPE	0°				15°				30°				45°			
			BAR NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM			9a1	58	28'-9	5670	58	28'-9	5670	58	28'-9	5670	58	28'-9	5670	58	28'-9	5670
SLAB LONGITUDINAL BOTTOM			9a2	58	44'-6	8776	58	44'-6	8776	58	44'-6	8776	58	44'-6	8776	58	44'-6	8776
SLAB LONGITUDINAL BOTTOM			9a3	58	41'-3	8135	58	41'-3	8135	58	41'-3	8135	58	41'-3	8135	58	41'-3	8135
SLAB LONGITUDINAL BOTTOM			9a4	58	32'-9	6459	58	32'-9	6459	58	32'-9	6459	58	32'-9	6459	58	32'-9	6459
SLAB LONGITUDINAL BOTTOM			10a5	29	41'-0	5117	29	41'-0	5117	29	41'-0	5117	29	41'-0	5117	29	41'-0	5117
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	38'-7	1050	8	38'-7	1050	8	38'-7	1050	8	38'-7	1050	8	38'-7	1050
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	48'-8	662	4	48'-8	662	4	48'-8	662	4	48'-8	662	4	48'-8	662
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	8	31'-3	668	8	31'-3	668	8	31'-3	668	8	31'-3	668	8	31'-3	668
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a10	4	29'-0	395	4	29'-0	395	4	29'-0	395	4	29'-0	395	4	29'-0	395
SLAB LONGITUDINAL TOP			6b1	58	7'-9	676	58	7'-9	676	58	7'-9	676	58	7'-9	676	58	7'-9	676
SLAB LONGITUDINAL TOP			11b2	58	28'-9	8860	58	28'-9	8860	58	28'-9	8860	58	28'-9	8860	58	28'-9	8860
SLAB LONGITUDINAL TOP			11b3	58	30'-6	9399	58	30'-6	9399	58	30'-6	9399	58	30'-6	9399	58	30'-6	9399
SLAB LONGITUDINAL TOP			7b4	58	23'-9	2816	58	23'-9	2816	58	23'-9	2816	58	23'-9	2816	58	23'-9	2816
SLAB LONGITUDINAL TOP			10b5	58	25'-6	6365	58	25'-6	6365	58	25'-6	6365	58	25'-6	6365	58	25'-6	6365
SLAB LONGITUDINAL TOP			6b6	29	34'-4	1496	29	34'-4	1496	29	34'-4	1496	29	34'-4	1496	29	34'-4	1496
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	30'-3	364	8	30'-3	364	8	30'-3	364	8	30'-3	364	8	30'-3	364
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	32'-9	1393	8	32'-9	1393	8	32'-9	1393	8	32'-9	1393	8	32'-9	1393
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	23'-0	139	4	23'-0	139	4	23'-0	139	4	23'-0	139	4	23'-0	139
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	35'-6	581	8	35'-6	581	8	35'-6	581	8	35'-6	581	8	35'-6	581
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	23'-9	1010	8	23'-9	1010	8	23'-9	1010	8	23'-9	1010	8	23'-9	1010
SLAB TRANSVERSE BOTTOM			6c1	127	25'-5	4849	127	26'-4	5024	116	25'-5	4429	106	25'-5	4047			
SLAB TRANSVERSE BOTTOM			6c2	127	23'-3	4436	127	24'-1	4594	118	23'-3	4121	109	23'-3	3807			
SLAB TRANSVERSE ENDS, BOTTOM			6c3	-	-	-	-	-	14	VARIABLES	303	22	VARIABLES	485				
SLAB TRANSVERSE ENDS, BOTTOM			6c4	-	-	-	-	-	12	VARIABLES	255	22	VARIABLES	458				
SLAB TRANSVERSE ENDS, BOTTOM			6c5	-	-	-	-	-	12	VARIABLES	208	20	VARIABLES	366				
SLAB TRANSVERSE ENDS, BOTTOM			6c6	-	-	-	-	-	12	VARIABLES	227	19	VARIABLES	376				
SLAB TRANSVERSE TOP			5d1	127	25'-9	3411	127	26'-8	3533	116	25'-9	3116	106	25'-9	2847			
SLAB TRANSVERSE TOP			5d2	127	23'-3	3080	127	24'-1	3191	118	23'-3	2862	109	23'-3	2644			
SLAB TRANSVERSE ENDS, TOP			5d3	-	-	-	-	-	14	VARIABLES	210	22	VARIABLES	337				
SLAB TRANSVERSE ENDS, TOP			5d4	-	-	-	-	-	12	VARIABLES	177	22	VARIABLES	318				
SLAB TRANSVERSE ENDS, TOP			5d5	-	-	-	-	-	12	VARIABLES	144	20	VARIABLES	254				
SLAB TRANSVERSE ENDS, TOP			5d6	-	-	-	-	-	12	VARIABLES	158	19	VARIABLES	261				
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	28'-4	1362	18	29'-2	1402	18	31'-9	1526	18	37'-6	1803			
SLAB, TRANSVERSE AT ABUTMENT			8e2	18	23'-4	1122	18	24'-1	1158	18	26'-9	1286	18	32'-5	1558			
SLAB, HAIRPINS, AT ABUTMENT			6e3	100	5'-0	751	100	5'-1	764	100	5'-5	814	100	6'-1	914			
SLAB, DIAGONALS, AT ABUTMENT			6e4	100	5'-11	889	100	5'-11	889	100	5'-11	889	100	5'-11	889			
PIER CAP HOOPS			5h1	60	8'-1	506	60	8'-1	506	90	8'-1	759	90	8'-1	759			
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	27'-5	586	8	28'-8	613	8	31'-8	677	8	37'-10	809			
PIER CAP, BOTTOM LONGITUDINAL			8h4	8	21'-11	469	8	22'-4	478	8	24'-6	524	8	29'-8	634			
PIER CAP, TOP LONGITUDINAL			8h5	4	28'-2	301	4	29'-6	316	4	32'-8	349	4	38'-11	416			
PIER CAP, TOP LONGITUDINAL			8h6	4	23'-5	251	4	23'-11	256	4	26'-3	281	4	31'-6	337			
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	252	8'-6	2235	252	8'-6	2235	246	8'-6	2181	244	8'-6	2164			
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			
SUB TOTAL - LBS.						95,308			96,019			96,556			97,543			
BARRIER RAIL - SEE LIST ON RAIL SHEET J44-46-06						8054			8054			8054			8054			
OPEN RAIL - SEE LIST ON RAIL SHEET J44-49-06						8573			8573			8573			8573			
TOTAL - LBS.			WITH MONOLITHIC PIER CAP			103,362			104,073			104,610			105,597			
			WITH OPEN RAIL			103,881			104,592			105,129			106,116			
TOTAL - LBS.			WITH NON-MONOLITHIC PIER CAP			101,095			101,750			101,866			102,488			
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED			WITH OPEN RAIL			101,614			102,269			102,385			103,007			

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°
WITH *STRUCTURAL CONCRETE (BRIDGE) C.Y.		435.0	436.0	439.5	447.1	428.6	429.4	432.2	438.2
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		103,362	104,073	104,610	105,597	101,095	101,750	101,866	102,488
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		282.0	282.2	282.9	284.5	282.0	282.2	282.9	284.5
WITH *STRUCTURAL CONCRETE (BRIDGE) C.Y.		434.7	435.8	439.3	446.9	428.3	429.1	431.9	438.0
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		103,881	104,592	105,129	106,116	101,614	102,269	102,385	103,007

* INCLUDES 4 WINGS @ 0.68 C.Y. EACH; EXCLUDES RAIL CONCRETE.

BENT BAR DETAILS



NOTES:
 ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 THE TRANSVERSE REBARS ARE DETAILED WITH A SPLICE LAP. AT THE CONTRACTOR'S OPTION, THIS LAP MAY BE ELIMINATED BY FURNISHING FULL LENGTH BARS WITH NO REDUCTION IN PAY WEIGHT FOR SAME.

LATEST REVISION DATE 07-09 APPROVED BY BRIDGE ENGINEER 	
	STANDARD DESIGN - 44' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
	SUPERSTRUCTURE DETAILS 130'-0 BRIDGE

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