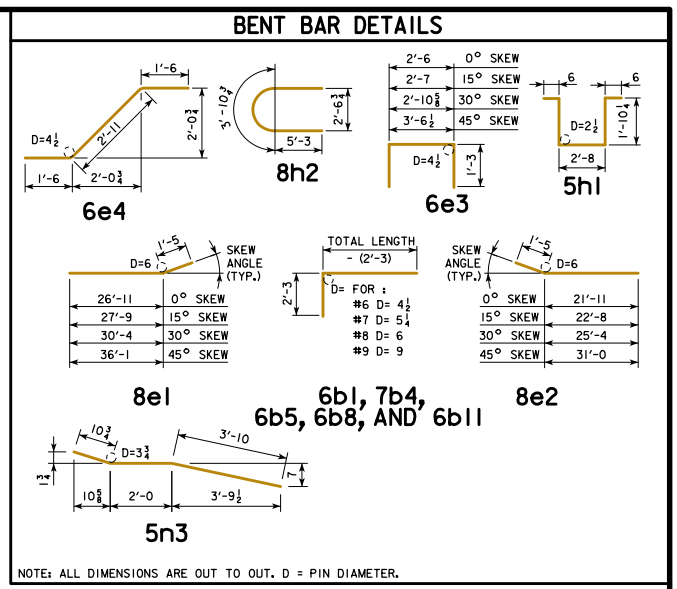


REVISED 09-14 - CHANGED REFERENCE TO THE BARRIER RAIL & OPEN RAIL TO THE J44-14 STANDARDS INSTEAD OF J44-06 STANDARDS.
REVISED 03-2016 - REVISION FOR ADDITION OF PAVING NOTCH BAR 8u1 IN ESTIMATED QUANTITIES TABLE.
REVISED 04-2016 - REVISION TO INCLUDE PAVING NOTCH BAR 8u1 WEIGHT IN ESTIMATED QUANTITIES TABLE.

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 100' BRIDGE													
LOCATION	SKREW	SHAPE	0°		15°		30°		45°				
			BAR NO.	LENGTH	WEIGHT	BAR NO.	LENGTH	WEIGHT	BAR NO.	LENGTH	WEIGHT		
SLAB LONGITUDINAL BOTTOM			801	58	22'-3	3446	58	22'-3	3446	58	22'-3	3446	
SLAB LONGITUDINAL BOTTOM			802	58	33'-6	5188	58	33'-6	5188	58	33'-6	5188	
SLAB LONGITUDINAL BOTTOM			803	58	31'-6	4879	58	31'-6	4879	58	31'-6	4879	
SLAB LONGITUDINAL BOTTOM			904	58	28'-9	5670	58	28'-9	5670	58	28'-9	5670	
SLAB LONGITUDINAL BOTTOM			905	29	32'-0	3156	29	32'-0	3156	29	32'-0	3156	
SLAB LONGITUDINAL BOTTOM, AT RAIL			806	8	35'-9	764	8	35'-9	764	8	35'-9	764	
SLAB LONGITUDINAL BOTTOM, AT RAIL			807	4	37'-4	399	4	37'-4	399	4	37'-4	399	
SLAB LONGITUDINAL BOTTOM, AT RAIL			808	8	25'-0	534	8	25'-0	534	8	25'-0	534	
SLAB LONGITUDINAL BOTTOM, AT RAIL			809	4	22'-6	241	4	22'-6	241	4	22'-6	241	
SLAB LONGITUDINAL TOP			601	58	7'-0	610	58	7'-0	610	58	7'-0	610	
SLAB LONGITUDINAL TOP			10b2	58	26'-9	6677	58	26'-9	6677	58	26'-9	6677	
SLAB LONGITUDINAL TOP			10b3	58	27'-6	6864	58	27'-6	6864	58	27'-6	6864	
SLAB LONGITUDINAL TOP			7b4	58	16'-6	1957	58	16'-6	1957	58	16'-6	1957	
SLAB LONGITUDINAL TOP			6b5	58	13'-9	1198	58	13'-9	1198	58	13'-9	1198	
SLAB LONGITUDINAL TOP			9b6	58	22'-9	4487	58	22'-9	4487	58	22'-9	4487	
SLAB LONGITUDINAL TOP			6b7	29	26'-10	1169	29	26'-10	1169	29	26'-10	1169	
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	25'-6	307	8	25'-6	307	8	25'-6	307	
SLAB LONGITUDINAL TOP, AT RAIL			9b9	8	23'-6	640	8	23'-6	640	8	23'-6	640	
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	21'-0	127	4	21'-0	127	4	21'-0	127	
SLAB LONGITUDINAL TOP, AT RAIL			6b11	8	27'-6	331	8	27'-6	331	8	27'-6	331	
SLAB LONGITUDINAL TOP, AT RAIL			10b12	8	19'-0	655	8	19'-0	655	8	19'-0	655	
SLAB TRANSVERSE BOTTOM			6c1	97	25'-5	3704	97	26'-4	3837	86	25'-5	3284	
SLAB TRANSVERSE BOTTOM			6c2	97	23'-3	3388	97	24'-1	3509	88	23'-3	3074	
SLAB TRANSVERSE ENDS, BOTTOM			6c3	-	-	-	-	-	14	VARIES	20	VARIES	485
SLAB TRANSVERSE ENDS, BOTTOM			6c4	-	-	-	-	-	12	VARIES	25	VARIES	458
SLAB TRANSVERSE ENDS, BOTTOM			6c5	-	-	-	-	-	12	VARIES	20	VARIES	366
SLAB TRANSVERSE ENDS, BOTTOM			6c6	-	-	-	-	-	12	VARIES	22	VARIES	376
SLAB TRANSVERSE TOP			5d1	97	25'-9	2606	97	26'-8	2698	86	25'-9	2310	
SLAB TRANSVERSE TOP			5d2	97	23'-3	2353	97	24'-1	2437	88	23'-3	2134	
SLAB TRANSVERSE ENDS, TOP			5d3	-	-	-	-	-	14	VARIES	210	VARIES	337
SLAB TRANSVERSE ENDS, TOP			5d4	-	-	-	-	-	12	VARIES	177	VARIES	318
SLAB TRANSVERSE ENDS, TOP			5d5	-	-	-	-	-	12	VARIES	144	VARIES	254
SLAB TRANSVERSE ENDS, TOP			5d6	-	-	-	-	-	12	VARIES	158	VARIES	261
SLAB TRANSVERSE AT ABUTMENT			8e1	18	28'-4	1362	18	29'-2	1402	18	31'-9	1526	
SLAB TRANSVERSE AT ABUTMENT			8e2	18	23'-4	1122	18	24'-1	1158	18	26'-9	1286	
SLAB, HAIRPINS, AT ABUTMENT			6e3	100	5'-0	751	100	5'-1	764	100	5'-5	814	
SLAB, DIAGONALS, AT ABUTMENT			6e4	100	5'-11	889	100	5'-11	889	100	5'-11	889	
PIER CAP HOOPS			5h1	66	7'-5	511	66	7'-5	511	88	7'-5	681	
PIER CAP ENDS			8h2	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	
PIER CAP, BOTTOM LONGITUDINAL			8h4	8	21'-11	469	8	22'-4	478	8	24'-6	524	
PIER CAP, TOP LONGITUDINAL			8h5	4	28'-2	301	4	29'-6	316	4	32'-8	349	
PIER CAP, TOP LONGITUDINAL			8h6	4	23'-5	251	4	23'-11	256	4	26'-3	281	
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	192	8'-6	1703	192	8'-6	1703	186	8'-6	1649	
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	
SUB EPOXY COATED TOTAL - LBS.					69,970			70,545			71,134		72,291
BARRIER RAIL - SEE LIST ON RAIL SHEET J44-46-14					4194			4194			4194		4194
OPEN RAIL - SEE LIST ON RAIL SHEET J44-49-14					4446			4446			4446		4446
EPOXY COATED RAIL TOTAL - LBS.					74,164			74,739			75,328		76,485
			WITH MONOLITHIC PIER CAP		74,416			74,991			75,580		76,737
			WITH BARRIER RAIL		74,164			74,739			75,328		76,485
			WITH OPEN RAIL		74,416			74,991			75,580		76,737
EPOXY COATED RAIL TOTAL - LBS.					71,892			72,411			72,662		73,284
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED					72,144			72,663			72,914		73,536
STAINLESS STEEL RAIL TOTAL - LBS.					2267			2267			2267		2267
			WITH BARRIER RAIL		2267			2267			2267		2267
			WITH OPEN RAIL		2348			2348			2348		2348

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 100' BRIDGE									
ITEM	SKREW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
		0°	15°	30°	45°	0°	15°	30°	45°
WITH BARRIER RAIL	* STRUCTURAL CONCRETE (BRIDGE) C.Y.	289.2	290.2	293.9	302.0	282.8	283.6	286.6	293.1
	REINF. STEEL EPOXY COATED LBS.	74,164	74,739	75,328	76,485	71,892	72,411	72,662	73,284
	REINF. STEEL STAINLESS STEEL LBS.	2512	2512	2512	2512	2512	2512	2512	2512
CONCRETE BARRIER OR OPEN RAIL	LIN. FT.	222.0	222.2	222.9	224.5	222.0	222.2	222.9	224.5
WITH OPEN RAIL	* STRUCTURAL CONCRETE (BRIDGE) C.Y.	289.0	290.1	293.8	301.8	282.6	283.5	286.4	292.9
	REINF. STEEL EPOXY COATED LBS.	74,416	74,991	75,580	76,737	72,144	72,663	72,914	73,536
	REINF. STEEL STAINLESS STEEL LBS.	2593	2593	2593	2593	2593	2593	2593	2593
* INCLUDES 4 WINGS @ 0.68 C.Y. EACH; EXCLUDES RAIL CONCRETE.									
△ INCLUDES ABUTMENT PAVING NOTCH BAR WEIGHT.									



STAINLESS STEEL REINFORCING FOR SUPERSTRUCTURE - BRIDGE					
ALL SKEWS					
LOCATION	SHAPE	BAR NO.	NO.	LENGTH	WEIGHT
ABUTMENT PAVING NOTCH BAR		8u1	44	2'-1	245
8u1 BARS SHALL BE PAID FOR UNDER THE BID ITEM "REINFORCING STEEL, STAINLESS STEEL".					WEIGHT = LBS.

NOTES:
ALL BARRIER RAIL REINFORCING STEEL IS TO BE EITHER EPOXY COATED OR STAINLESS STEEL AS SHOWN OR NOTED. THE STAINLESS STEEL REINFORCING STEEL SHALL BE DEFORMED BAR GRADE 60 MEETING THE REQUIREMENTS OF MATERIALS I.M.452.

ALL OTHER REINFORCING STEEL IS TO 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 04-2016 APPROVED BY BRIDGE ENGINEER			STANDARD DESIGN - 44' ROADWAY, 3 SPAN BRIDGES
			CONTINUOUS CONCRETE SLAB BRIDGES JULY, 2014
			SUPERSTRUCTURE DETAILS 100'-0 BRIDGE
			J44-09-14