

REVISED 07-2009; OPEN RAIL REINF. QTY'S CHANGED WHICH CHANGED TOTAL REINF. QTY'S.
REVISED 09-2020; UPDATED BRIDGE ENGINEER SIGNATURE. CHANGED PAVING BLOCK LIFTING HOOP BAR MARK WAS 5X11.

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 100' BRIDGE

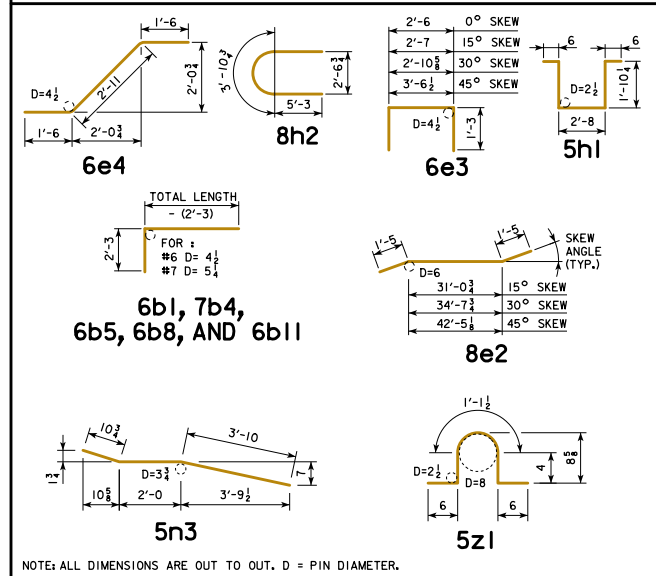
LOCATION	SKEW	SHAPE	0°				15°				30°				45°			
			BAR NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM			8a1	39	22'-3"	2317	39	22'-3"	2317	39	22'-3"	2317	39	22'-3"	2317	39	22'-3"	2317
SLAB LONGITUDINAL BOTTOM			8a2	39	33'-6"	3489	39	33'-6"	3489	39	33'-6"	3489	39	33'-6"	3489	39	33'-6"	3489
SLAB LONGITUDINAL BOTTOM			8a3	39	31'-6"	3281	39	31'-6"	3281	39	31'-6"	3281	39	31'-6"	3281	39	31'-6"	3281
SLAB LONGITUDINAL BOTTOM			9a4	40	28'-9"	3910	40	28'-9"	3910	40	28'-9"	3910	40	28'-9"	3910	40	28'-9"	3910
SLAB LONGITUDINAL BOTTOM			9a5	20	32'-0"	2176	20	32'-0"	2176	20	32'-0"	2176	20	32'-0"	2176	20	32'-0"	2176
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a6	8	35'-9"	764	8	35'-9"	764	8	35'-9"	764	8	35'-9"	764	8	35'-9"	764
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a7	4	37'-4"	399	4	37'-4"	399	4	37'-4"	399	4	37'-4"	399	4	37'-4"	399
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a8	8	25'-0"	534	8	25'-0"	534	8	25'-0"	534	8	25'-0"	534	8	25'-0"	534
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	4	22'-6"	241	4	22'-6"	241	4	22'-6"	241	4	22'-6"	241	4	22'-6"	241
SLAB LONGITUDINAL TOP			6b1	39	7'-0"	411	39	7'-0"	411	39	7'-0"	411	39	7'-0"	411	39	7'-0"	411
SLAB LONGITUDINAL TOP			10b2	39	26'-9"	4490	39	26'-9"	4490	39	26'-9"	4490	39	26'-9"	4490	39	26'-9"	4490
SLAB LONGITUDINAL TOP			10b3	39	27'-6"	4615	39	27'-6"	4615	39	27'-6"	4615	39	27'-6"	4615	39	27'-6"	4615
SLAB LONGITUDINAL TOP			7b4	39	16'-6"	1316	39	16'-6"	1316	39	16'-6"	1316	39	16'-6"	1316	39	16'-6"	1316
SLAB LONGITUDINAL TOP			6b5	40	13'-9"	827	40	13'-9"	827	40	13'-9"	827	40	13'-9"	827	40	13'-9"	827
SLAB LONGITUDINAL TOP			9b6	40	22'-9"	3094	40	22'-9"	3094	40	22'-9"	3094	40	22'-9"	3094	40	22'-9"	3094
SLAB LONGITUDINAL TOP			6b7	20	26'-10"	807	20	26'-10"	807	20	26'-10"	807	20	26'-10"	807	20	26'-10"	807
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	25'-6"	307	8	25'-6"	307	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	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	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	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	8	19'-0"	655	8	19'-0"	655
SLAB TRANSVERSE, BOTTOM			6c1	97	32'-10"	4784	97	34'-0"	4954	84	32'-10"	4143	70	32'-10"	3453			
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	-	30	VARIABLES	797	56	VARIABLES	1486			
SLAB TRANSVERSE, TOP			5d1	97	32'-10"	3322	97	34'-0"	3440	84	32'-10"	2877	70	32'-10"	2398			
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	-	30	VARIABLES	553	56	VARIABLES	1032			
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	32'-10"	1578	-	-	-	-	-	-	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	18	33'-11"	1631	18	37'-6"	1803	18	45'-4"	2179			
SLAB, HAIRPINS, AT ABUTMENT			6e3	72	5'-0"	541	72	5'-1"	550	72	5'-5"	586	72	6'-1"	658			
SLAB, DIAGONALS, AT ABUTMENT			6e4	72	5'-11"	640	72	5'-11"	640	72	5'-11"	640	72	5'-11"	640			
PIER CAP HOOPS			5h1	48	7'-5"	372	48	7'-5"	372	64	7'-5"	496	64	7'-5"	496			
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	29'-10"	638	8	30'-11"	661	8	34'-5"	736	8	42'-2"	901			
PIER CAP, TOP LONGITUDINAL			8h4	4	32'-10"	351	4	34'-0"	364	4	37'-11"	405	4	46'-6"	497			
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	192	8'-6"	1703	192	8'-6"	1703	192	8'-6"	1703	190	8'-6"	1685			
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			5z1	10	2'-10"	30	10	2'-10"	30	10	2'-10"	30	10	2'-10"	30			
SUB TOTAL - LBS.						49,365			49,751			50,175			50,861			
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06						6461			6461			6461			6461			
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06						6794			6794			6794			6794			
TOTAL - LBS.			WITH MONOLITHIC PIER CAP			55,826			56,212			56,636			57,322			
			WITH OPEN RAIL			56,159			56,545			56,969			57,655			
TOTAL - LBS.			WITH NON-MONOLITHIC PIER CAP			54,311			54,661			54,845			55,274			
			WITH OPEN RAIL			54,644			54,994			55,178			55,607			
** BARS MAY BE NON-COATED AT CONTRACTOR'S OPTION.																		

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 100' 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.		205.6	206.4	209.1	215.0	201.0	201.6	203.9	208.6
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		55,826	56,212	56,636	57,322	54,311	54,661	54,845	55,274
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		222.0	222.2	222.9	224.5	222.0	222.2	222.9	224.5
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		205.4	206.2	208.9	214.8	200.8	201.4	203.7	208.4
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		56,159	56,545	56,969	57,655	54,644	54,994	55,178	55,607

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

BENT BAR DETAILS



09-2020 LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER 	 STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
	SUPERSTRUCTURE DETAILS 100'-0 BRIDGE
	J30-09E-06 EPOXY COATED REINFORCING