

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 EX11.

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 150' BRIDGE

LOCATION	SKEW	SHAPE	0°				15°				30°				45°				
			BAR NO.	LENGTH	WEIGHT		BAR NO.	LENGTH	WEIGHT		BAR NO.	LENGTH	WEIGHT		BAR NO.	LENGTH	WEIGHT		
SLAB LONGITUDINAL BOTTOM			10a1	39	32'-9"	5497	39	32'-9"	5497	39	32'-9"	5497	39	32'-9"	5497				
SLAB LONGITUDINAL BOTTOM			10a2	39	51'-6"	8643	39	51'-6"	8643	39	51'-6"	8643	39	51'-6"	8643				
SLAB LONGITUDINAL BOTTOM			10a3	39	48'-6"	8140	39	48'-6"	8140	39	48'-6"	8140	39	48'-6"	8140				
SLAB LONGITUDINAL BOTTOM			9a4	40	36'-3"	4930	40	36'-3"	4930	40	36'-3"	4930	40	36'-3"	4930				
SLAB LONGITUDINAL BOTTOM			9a5	20	45'-0"	3060	20	45'-0"	3060	20	45'-0"	3060	20	45'-0"	3060				
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	44'-7"	1213	8	44'-7"	1213	8	44'-7"	1213	8	44'-7"	1213				
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	56'-8"	771	4	56'-8"	771	4	56'-8"	771	4	56'-8"	771				
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a9	8	37'-6"	1291	8	37'-6"	1291	8	37'-6"	1291	8	37'-6"	1291				
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a10	4	35'-0"	603	4	35'-0"	603	4	35'-0"	603	4	35'-0"	603				
SLAB LONGITUDINAL TOP			6b1	39	7'-9"	454	39	7'-9"	454	39	7'-9"	454	39	7'-9"	454				
SLAB LONGITUDINAL TOP			11b2	39	32'-9"	6787	39	32'-9"	6787	39	32'-9"	6787	39	32'-9"	6787				
SLAB LONGITUDINAL TOP			11b3	39	28'-6"	5906	39	28'-6"	5906	39	28'-6"	5906	39	28'-6"	5906				
SLAB LONGITUDINAL TOP			8b4	39	33'-2"	3454	39	33'-2"	3454	39	33'-2"	3454	39	33'-2"	3454				
SLAB LONGITUDINAL TOP			11b5	40	30'-0"	6376	40	30'-0"	6376	40	30'-0"	6376	40	30'-0"	6376				
SLAB LONGITUDINAL TOP			6b6	20	37'-4"	1122	20	37'-4"	1122	20	37'-4"	1122	20	37'-4"	1122				
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	35'-0"	421	8	35'-0"	421	8	35'-0"	421	8	35'-0"	421				
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	35'-6"	1509	8	35'-6"	1509	8	35'-6"	1509	8	35'-6"	1509				
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	28'-0"	169	4	28'-0"	169	4	28'-0"	169	4	28'-0"	169				
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	40'-9"	667	8	40'-9"	667	8	40'-9"	667	8	40'-9"	667				
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	25'-6"	1084	8	25'-6"	1084	8	25'-6"	1084	8	25'-6"	1084				
SLAB TRANSVERSE, BOTTOM			6c1	147	32'-10"	7250	147	34'-0"	7507	134	32'-10"	6609	120	32'-10"	5918				
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	-	30	VARIABLES	797	56	VARIABLES	1486				
SLAB TRANSVERSE, TOP			5d1	147	32'-10"	5035	147	34'-0"	5213	134	32'-10"	4589	120	32'-10"	4110				
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	44	8'-6"	391	44	8'-6"	391	44	8'-6"	391	44	8'-6"	391				
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	292	8'-6"	2589	292	8'-6"	2589	292	8'-6"	2589	290	8'-6"	2571				
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.						82,169			82,702			82,854			83,734				
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06						9161			9161			9161			9161				
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06						9605			9605			9605			9605				
TOTAL - LBS.		WITH MONOLITHIC PIER CAP				91,330			91,863			92,015			92,895				
		WITH OPEN RAIL				91,774			92,307			92,459			93,339				
TOTAL - LBS.		WITH NON-MONOLITHIC PIER CAP				89,796			90,293			90,329			90,757				
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED		WITH OPEN RAIL				90,240			90,737			90,773			91,201				

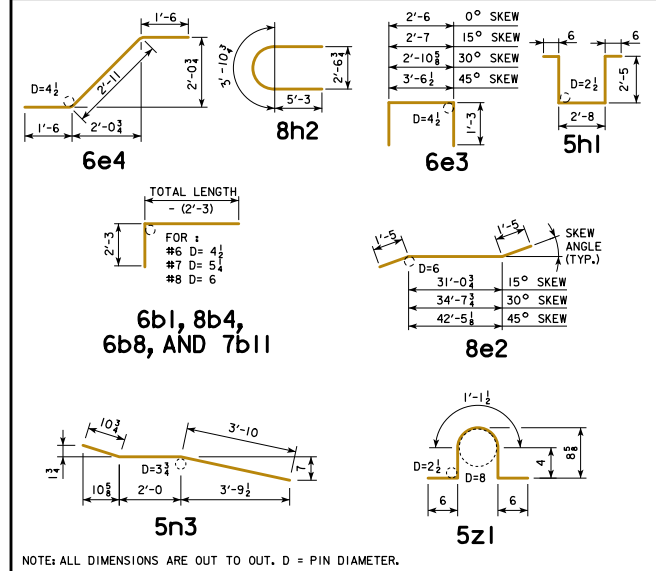
** BARS MAY BE NON-COATED AT CONTRACTOR'S OPTION.

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 150' 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.		393.1	393.8	396.3	401.6	388.5	389.0	391.0	395.2
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		91,330	91,863	92,015	92,895	89,796	90,293	90,329	90,757
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		322.0	322.2	322.9	324.5	322.0	322.2	322.9	324.5
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		392.8	393.5	396.0	401.3	388.2	388.7	390.8	394.9
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		91,774	92,307	92,459	93,339	90,240	90,737	90,773	91,201

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

BENT BAR DETAILS



08-2020 LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER 	 STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
	SUPERSTRUCTURE DETAILS 150'-0 BRIDGE
	J30-19E-06 EPOXY COATED REINFORCING