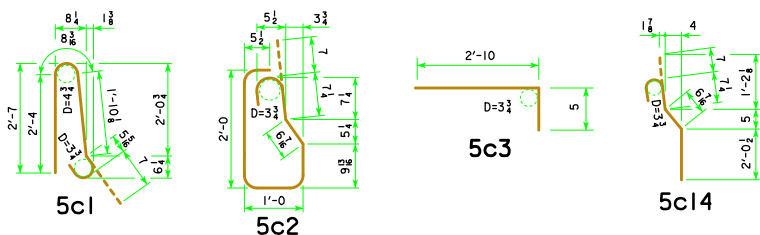


## REINFORCING STEEL-TWO BARRIER RAILS

(NOTE: THESE REINFORCING BARS TO BE USED ON ALL SKEWS)

BRIDGE LENGTH			46'-8			55'-0			67'-6			80'-0			90'-0			100'-0			110'-0			
SECTION	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT			
STANDARD SECTION	5c1	VERTICAL		100	5'-11	617	116	5'-11	716	142	5'-11	876	186	5'-11	1148	206	5'-11	1271	226	5'-11	1395	246	5'-11	1518
	5c2	VERTICAL		100	6'-0	626	116	6'-0	726	142	6'-0	889	166	6'-0	1039	186	6'-0	1164	206	6'-0	1289	226	6'-0	1414
	5c3	VERTICAL		-	-	-	-	-	-	-	-	-	20	3'-3	65	20	3'-3	65	20	3'-3	65	20	3'-3	65
	5c14	VERTICAL		-	-	-	-	-	-	-	-	-	20	3'-10	80	20	3'-10	80	20	3'-10	80	20	3'-10	80
	5d1	LONGITUDINAL		36	26'-1	979	36	30'-3	1136	36	36'-6	1371	54	32'-7	1835	54	35'-11	2023	54	39'-3	2211	72	32'-6	2441
4 END SECTIONS @ 458 LBS.						1832			1832			1832			1832			1832			1832			1832
TOTAL LBS. (INCLUDE WITH SUPERSTRUCTURE REINFORCING)						4054			4410			4968			6002			6438			6875			7353

### BENT BAR DETAILS



NOTE:  
ALL DIMENSIONS ARE OUT TO OUT.  
D = PIN DIAMETER.

### CONCRETE PLACEMENT SUMMARY

BRIDGE LENGTH		46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
STANDARD SECTION *	2 X B @ 0.1052 CU.YD. PER FT.	10.5	12.3	14.9	19.7	21.8	23.9	26.0
END SECTION	4 @ 0.65 CU.YD.	2.6	2.6	2.6	2.6	2.6	2.6	2.6
TOTAL (CU. YD.)		13.1	14.9	17.5	22.3	24.4	26.5	28.6

\* SEE SHEET H30S1-34-I2 FOR DIMENSION "B".  
CONCRETE QUANTITIES SHOWN ARE BASED  
ON 30° SKEW BID LENGTHS.

### CONCRETE BARRIER RAIL QUANTITIES

BRIDGE LENGTH		UNIT	46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
CONCRETE BARRIER RAILING	0° SKEW	L.F.	127.3	144.0	169.0	214.0	234.0	254.0	274.0
CONCRETE BARRIER RAILING	15° SKEW	L.F.	127.5	144.2	169.2	214.2	234.2	254.2	274.2
CONCRETE BARRIER RAILING	30° SKEW	L.F.	128.3	144.9	169.9	214.9	234.9	254.9	274.9

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 30' ROADWAY, SINGLE SPAN BRIDGE <b>PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES</b> APRIL, 2012
		<b>BARRIER RAIL DETAILS</b>
		H30S1-33-12 SHEET 3 OF 3