

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 110' BRIDGE															
LOCATION	SKEW	SHAPE	0°				15°				30°		45°		
			BAR	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
SLAB LONGITUDINAL BOTTOM			801	31	24'-4"	2014	31	24'-4"	2014	31	24'-4"	2014	31	24'-4"	2014
SLAB LONGITUDINAL BOTTOM			902	31	35'-9"	3768	31	35'-9"	3768	31	35'-9"	3768	31	35'-9"	3768
SLAB LONGITUDINAL BOTTOM			803	31	32'-2"	2662	31	32'-2"	2662	31	32'-2"	2662	31	32'-2"	2662
SLAB LONGITUDINAL BOTTOM			904	32	31'-7"	3436	32	31'-7"	3436	32	31'-7"	3436	32	31'-7"	3436
SLAB LONGITUDINAL BOTTOM			805	16	39'-0"	1666	16	39'-0"	1666	16	39'-0"	1666	16	39'-0"	1666
SLAB LONGITUDINAL BOTTOM, AT RAIL			906	8	40'-4"	1097	8	40'-4"	1097	8	40'-4"	1097	8	40'-4"	1097
SLAB LONGITUDINAL BOTTOM, AT RAIL			907	4	39'-2"	533	4	39'-2"	533	4	39'-2"	533	4	39'-2"	533
SLAB LONGITUDINAL BOTTOM, AT RAIL			808	8	23'-10"	509	8	23'-10"	509	8	23'-10"	509	8	23'-10"	509
SLAB LONGITUDINAL BOTTOM, AT RAIL			809	4	23'-0"	246	4	23'-0"	246	4	23'-0"	246	4	23'-0"	246
SLAB LONGITUDINAL TOP			801	31	11'-4"	938	31	11'-4"	938	31	11'-4"	938	31	11'-4"	938
SLAB LONGITUDINAL TOP			1002	31	26'-4"	3513	31	26'-4"	3513	31	26'-4"	3513	31	26'-4"	3513
SLAB LONGITUDINAL TOP			1003	31	23'-7"	3146	31	23'-7"	3146	31	23'-7"	3146	31	23'-7"	3146
SLAB LONGITUDINAL TOP			704	31	20'-5"	1294	31	20'-5"	1294	31	20'-5"	1294	31	20'-5"	1294
SLAB LONGITUDINAL TOP			1005	32	24'-6"	3374	32	24'-6"	3374	32	24'-6"	3374	32	24'-6"	3374
SLAB LONGITUDINAL TOP			606	16	28'-6"	685	16	28'-6"	685	16	28'-6"	685	16	28'-6"	685
SLAB LONGITUDINAL TOP, AT RAIL			608	8	26'-0"	312	8	26'-0"	312	8	26'-0"	312	8	26'-0"	312
SLAB LONGITUDINAL TOP, AT RAIL			1009	8	25'-3"	869	8	25'-3"	869	8	25'-3"	869	8	25'-3"	869
SLAB LONGITUDINAL TOP, AT RAIL			6010	4	21'-10"	131	4	21'-10"	131	4	21'-10"	131	4	21'-10"	131
SLAB LONGITUDINAL TOP, AT RAIL			6011	8	29'-6"	354	8	29'-6"	354	8	29'-6"	354	8	29'-6"	354
SLAB LONGITUDINAL TOP, AT RAIL			10012	8	17'-6"	602	8	17'-6"	602	8	17'-6"	602	8	17'-6"	602
SLAB TRANSVERSE, BOTTOM			601	107	26'-10"	4312	107	27'-9"	4460	100	26'-10"	4030	90	26'-10"	3627
SLAB TRANSVERSE ENDS, BOTTOM			602	-	-	-	-	-	20	VARIES	494	40	VARIES	916	
SLAB TRANSVERSE, TOP			501	107	26'-10"	2995	107	27'-9"	3097	100	26'-10"	2799	90	26'-10"	2519
SLAB TRANSVERSE ENDS, TOP			502	-	-	-	-	-	20	VARIES	343	40	VARIES	636	
SLAB, TRANSVERSE AT ABUTMENT			801	20	26'-10"	1433	-	-	-	-	-	-	-	-	
SLAB, TRANSVERSE AT ABUTMENT			802	-	-	-	20	27'-8"	1477	20	30'-7"	1633	20	36'-9"	1962
SLAB, HAIRPINS, AT ABUTMENT			603	60											

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

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 110' BRIDGE										
ITEM		SKEW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
			0°	15°	30°	45°	0°	15°	30°	45°
OPEN RAIL	STRUCTURAL CONCRETE (BRIDGE)	C.Y.	197.7	198.5	201.4	207.5	193.5	194.2	196.6	201.7
	REINFORCING STEEL	LBS.	51,160	51,512	51,938	52,753	49,878	50,203	50,535	51,032
OPEN RAIL		LIN. FT.	242.0	242.2	242.9	244.5	242.0	242.2	242.9	244.5

* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.

12-07 LATEST REVISION DATE	 Iowa Department of Transportation Highway Division	STANDARD DESIGN - 24' ROADWAY, 3 SPAN BRIDGES	
		CONTINUOUS CONCRETE SLAB BRIDGES	
		NOVEMBER, 2006	
		SUPERSTRUCTURE DETAILS 110'-0" BRIDGE	J24-11-06



Iowa Department of Transportation
Highway Division

CONTINUOUS CONCRETE

NOVEMBER, 2006

J24-11-06