REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BRIDGE LENGTH

BAR	LOCATION	SHAPE	46'-8 A NO.	46'-8 A LENGTH	46'-8 A WEIGHT	55'-0 A NO.	55'-0 A LENGTH	55'-0 A WEIGHT	67'-6 B NO.	67'-6 B LENGTH	67'-6 B WEIGHT	80'-0 C NO.	80'-0 C LENGTH	80'-0 C WEIGHT	90'-0 D NO.	90'-0 D LENGTH	90'-0 D WEIGHT	100'-0 D NO.	100'-0 D LENGTH	100'-0 D WEIGHT	110'-0 D NO.	110'-0 D LENGTH	110'-0 D WEIGHT
6a1	SLAB TRANSVERSE, TOP & BOTTOM		111	32'-10	5475	133	32'-10	6559	165	32'-10	8138	199	32'-10	9814	225	32'-10	11,097	253	32'-10	12,477	279	32'-10	13,760
6a2	SLAB TRANSVERSE END, TOP		20	*	511	20	*	511	20	*	511	20	*	511	20	*	511	20	*	511	20	*	511
6a3	SLAB TRANSVERSE END, BOTTOM		22	**	562	22	**	562	22	**	562	22	**	562	22	**	562	22	**	562	22	**	562
5b1	SLAB LONGITUDINAL TOP & BOTTOM		168	25'-10	4527	168	30'-0	5257	168	36'-3	6352	252	29'-1	7644	252	32'-5	8520	252	35'-9	9396	252	39'-1	10,273
5d2	ABUTMENT DIAPHRAGM, LONGITUDINAL - F.F.		24	6'-4	159	24	6'-4	159	24	6'-4	159	24	6'-1	153	24	6'-3	157	24	6'-3	157	24	6'-3	157
5d3	ABUTMENT DIAPHRAGM, LONGITUDINAL - F.F.		8	5'-5	46	8	5'-5	46	8	5'-5	46	8	5'-2	44	8	5'-0	42	8	5'-0	42	8	5'-0	42
5d5	ABUTMENT DIAPHRAGM, LONGITUDINAL - END		12	4'-7	58	12	4'-7	58	12	4'-7	58	12	4'-7	58	12	4'-7	58	12	4'-7	58	12	4'-7	58
5d6	ABUTMENT DIAPHRAGM LONGITUDINAL - B.F.		8	33'-10	283	8	33'-10	283	8	33'-10	283	8	33'-10	283	8	33'-10	283	8	33'-10	283	8	33'-10	283
5d7	PAVING NOTCH, LONGITUDINAL		4	33'-11	142	4	33'-11	142	4	33'-11	142	4	33'-11	142	4	33'-11	142	4	33'-11	142	4	33'-11	142
5d8	ABUTMENT DIAPH. WING EXT. LONGIT.		-	-	-	-	-	-	-	-	-	24	10'-9	269	24	10'-9	269	24	10'-9	269	24	10'-9	269
5d9	ABUT. DIAPH. WING EXT. LONGIT.											24	10'-8	267	24	10'-8	267	24	10'-8	267	24	10'-8	267
8f1	ABUTMENT FOOTING LONGITUDINAL		18	33'-10	1626	18	33'-10	1626	18	33'-10	1626	18	33'-10	1626	18	33'-10	1626	18	33'-10	1626	18	33'-10	1626
8f3	ABUTMENT EXTENSION LONGITUDINAL		-	-	-	-	-	-	-	-	-	16	10'-2	435	16	10'-2	435	16	10'-2	435	16	10'-2	435
8f4	ABUTMENT EXTENSION LONGITUDINAL		-	-	-	-	-	-	-	-	-	16	9'-0	385	16	9'-0	385	16	9'-0	385	16	9'-0	385
8g1	ABUTMENT VERTICAL		114	6'-7	2004	114	6'-7	2004	114	7'-2	2181	110	7'-8	2252	110	8'-5	2472	110	8'-5	2472	110	8'-5	2472
8g3	ABUTMENT DIAPHRAGM VERTICAL - B.F.		50	15'-3	2036	50	15'-3	2036	50	15'-3	2036	50	15'-9	2103	50	15'-9	2103	50	15'-9	2103	50	15'-9	2103
6g4	ABUT. DIAPH. WING EXT. VERT.		-	-	-	-	-	-	-	-	-	40	5'-8	341	40	6'-5	386	40	6'-5	386	40	6'-5	386
5h1	ABUTMENT TO WING ANCHOR		28	6'-8	196	28	6'-8	196	28	6'-8	196	36	6'-8	252	36	6'-8	252	36	6'-8	252	36	6'-8	252
5h2	ABUTMENT TO WING ANCHOR		56	4'-11	288	56	4'-11	288	56	4'-11	288	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62
5h3	ABUTMENT TO WING ANCHOR		28	6'-9	198	28	6'-9	198	28	6'-9	198	36	6'-9	256	36	6'-9	256	36	6'-9	256	36	6'-9	256
5h4	ABUTMENT TO WING ANCHOR		-	-	-	-	-	-	-	-	-	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62
5j1	SLAB TRANSV. TOP AT RAIL		128	6'-3	835	150	6'-3	978	182	6'-3	1187	216	6'-3	1409	242	6'-3	1578	270	6'-3	1761	296	6'-3	1930
5k1	PAVING NOTCH, TRANSVERSE		54	4'-11	277	54	4'-11	277	54	4'-11	277	54	4'-11	277	54	4'-11	277	54	4'-11	277	54	4'-11	277
5k2	PAVING NOTCH, TRANSVERSE		54	3'-5	193	54	3'-5	193	54	3'-5	193	54	3'-5	193	54	3'-5	193	54	3'-5	193	54	3'-5	193
5p1	ABUTMENT HOOPS		112	10'-6	1227	112	10'-6	1227	100	10'-6	1096	120	10'-6	1315	112	10'-6	1227	96	10'-6	1052	96	10'-6	1052
5p2	ABUTMENT EXT.HOOPS		-	-	-	-	-	-	-	-	-	24	10'-8	268	24	10'-8	268	24	10'-8	268	24	10'-8	268
6p3	ABUT. BOTT. AT PILES		-	-	-	-	-	-	-	-	-	28	6'-8	281	32	6'-8	321	36	6'-8	361	36	6'-8	361
5p4	ABUTMENT HOOPS AT ENDS		8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90
5r1	PAVING BLOCK LIFTING HOOPS		8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24
5s1	WING, VERTICAL		64	5'-10	390	64	5'-10	390	64	6'-2	412	64	6'-11	462	64	7'-8	512	64	7'-8	512	64	7'-8	512
4t1	UNDER BEAMS AT ABUTMENTS		10	4'-8	32	10	4'-8	32	10	4'-8	32	10	4'-8	32	10	4'-10	33	10	4'-10	33	10	4'-10	33
#2	PILE SPIRAL - NO. 2 BAR		10	38'-6	64	10	38'-6	64	12	38'-6	77	18	38'-6	115	20	38'-6	128	22	38'-6	141	22	38'-6	141
	SPIRAL SPACER L $\frac{7}{8}$x$\frac{7}{8}$x$\frac{1}{8}$x 0.70		20	1'-10	26	20	1'-10	26	24	1'-10	32	36	1'-10	48	40	1'-10	53	44	1'-10	59	44	1'-10	59
	REINFORCING STEEL - NON-EPOXY COATED (LBS.)				21269			23226			26196			32035			34651			36974			39303
	SEE BARRIER RAIL DETAILS (LBS.)				3854			4210			4768			5793			6229			6666			7144
	SEE OPEN RAIL DETAILS (LBS.)				4179			4572			5277			6816			7478			7900			8322

* VARIES FROM 4'-5 TO 29'-7 ** VARIES FROM 3'-0 TO 31'-0

CONCRETE PLACEMENT QUANTITIES

(SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)

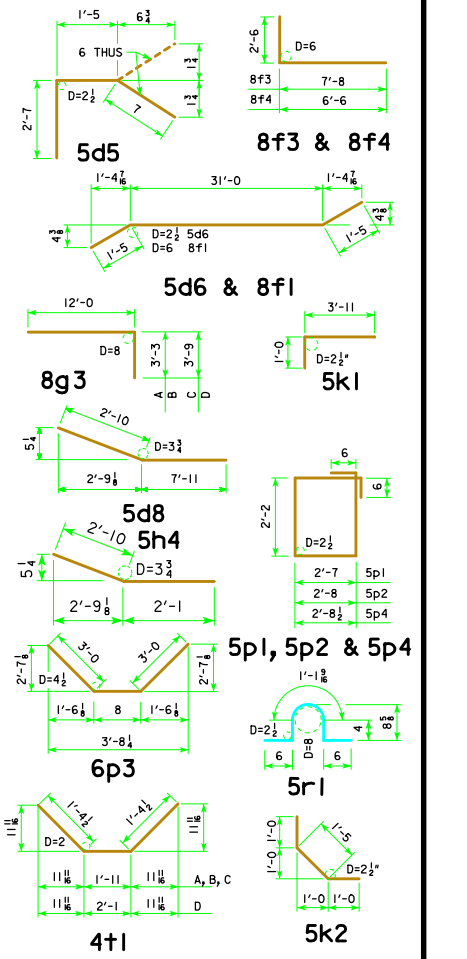
			46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
SLAB, AND ABUT. DIAPHRAGM	WITH BARRIER RAIL	CU.YD.	70.1	77.4	92.3	112.5	128.4	137.7	146.8
	WITH OPEN RAIL	CU.YD.	71.6	79.1	94.4	114.9	131.2	140.7	150.2
PAVING BLOCKS		CU.YD.	1.5	1.5	1.5	1.6	1.6	1.6	1.6
ABUTMENT WINGS		CU.YD.	7.2	7.2	7.6	8.4	9.2	9.2	9.2
ABUTMENT FOOTINGS		CU.YD.	27.6	27.6	27.6	35.3	35.3	35.3	35.3

ESTIMATED QUANTITIES

(SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)

			46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
NO. OF STEEL H-PILES FOR TWO ABUTS. (HP10X57)		NO.	10	10	12	18	20	22	22
STRUCTURAL CONCRETE, (BRIDGE)	WITH BARRIER RAIL	CU.YD.	106.4	113.7	129	157.8	174.5	183.8	192.9
	WITH OPEN RAIL	CU.YD.	107.9	115.4	131.1	160.2	177.3	186.8	196.3
CONCRETE RAIL (BARRIER OR OPEN)		L.F.	127.5	144.2	169.2	214.2	234.2	254.2	274.2
REINFORCING STEEL	WITH BARRIER RAIL	LBS.	25,123	27,436	30,964	37,828	40,880	43,640	46,447
	WITH OPEN RAIL	LBS.	25,448	27,798	31,473	38,851	42,129	44,874	47,625
STRUCTURAL STEEL	WITH BARRIER RAIL	LBS.	1532	1526	1570	1610	1695	1695	1695
	WITH OPEN RAIL	LBS.	1242	1235	1235	1235	1265	1265	1265

BENT BAR DETAILS



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

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, SINGLE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

APRIL, 2012

DECK & ABUTMENT REINF.

15° SKEW

H30SI-14-12