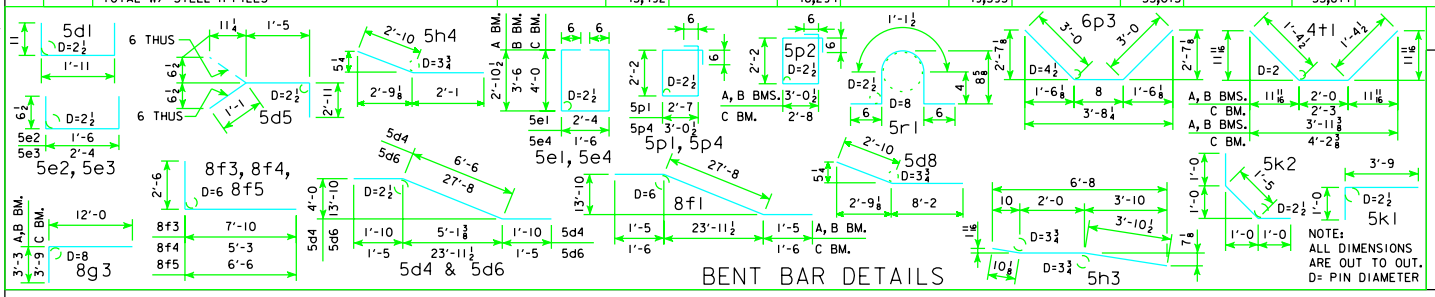
REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
	℄-℄ ABUT. BRG.		138'-10			151'-4			163'-10			176'-4			188'-10			201'-4			213'-10			226'-4			243'-0		
	℄-℄ BEAM BRG.		42'-6	50'-10	42'-6	46'-8	55'-0	46'-8	50'-10	59'-2	50'-10	55'-0	63'-4	55'-0	59'-2	67'-6	59'-2	63'-4	71'-8	63'-4	67'-6	75'-10	67'-6	71'-8	80'-0	71'-8	80'-0	80'-0	80'-0
	BEAM SERIES		A BEAM			A BEAM			B BEAM			B BEAM			B BEAM			C BEAM			C BEAM			C BEAM			C BEAM		
6a1	SLAB TRANSV. TOP & BOTT.		307	26'-10	12,373	337	26'-10	13,582	367	26'-10	14,791	397	26'-10	16,001	427	26'-10	17,210	457	26'-10	18,419	487	26'-10	19,628	517	26'-10	20,837	557	26'-10	22,449
6a2	SLAB TRANSV. TOP ENDS		34	VARIES	692	34	VARIES	692	34	VARIES	692	34	VARIES	692	34	VARIES	692	34	VARIES	692	34	VARIES	692	34	VARIES	692	34	VARIES	692
6a3	SLAB TRANSV. BOTT. ENDS		32	VARIES	651	32	VARIES	651	32	VARIES	651	32	VARIES	651	32	VARIES	651	32	VARIES	651	32	VARIES	651	32	VARIES	651	32	VARIES	651
5b1	SLAB LONGITUDINAL, TOP & BOTT.		122	40'-0	5,090	122	40'-0	5,090	183	40'-0	7,635	183	40'-0	7,635	183	40'-0	7,635	244	40'-0	10,180	244	40'-0	10,180	244	40'-0	10,180	305	40'-0	12,725
5b2	SLAB LONGITUDINAL, TOP & BOTT., ENDS		122	33'-6	4,263	122	39'-9	5,058	122	26'-10	3,414	122	33'-1	4,210	122	39'-4	5,005	122	26'-5	3,361	122	32'-8	4,157	122	38'-11	4,952	122	28'-1	3,573
6b3	SLAB LONGITUDINAL, TOP ⌀ PIERS		50	12'-10	964	50	13'-10	1,039	50	14'-10	1,114	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7b3	SLAB LONGITUDINAL, TOP ⌀ PIERS		—	—	—	—	—	—	—	—	—	50	15'-10	1,618	50	17'-0	1,737	50	18'-0	1,840	—	—	—	—	—	—	—	—	—
8b3	SLAB LONGITUDINAL, TOP ⌀ PIERS		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	19'-0	2,537	50	20'-0	2,670	50	20'-0	2,670
5d1	PIER DIAPH. ENDS		12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47
5d2	PIER & ABUT. DIAPH. LONGIT.		54	7'-3	408	54	7'-3	408	54	7'-3	408	54	7'-3	408	54	7'-3	408	54	7'-0	394	54	7'-0	394	54	7'-0	394	54	7'-0	394
5d3	PIER & ABUT. DIAPH. LONGIT.		18	6'-3	117	18	6'-3	117	18	6'-3	117	18	6'-3	117	18	6'-3	117	18	5'-11	111	18	5'-11	111	18	5'-11	111	18	5'-11	111
5d4	PIER DIAPH. LONGIT.		6	10'-2	64	6	10'-2	64	6	10'-2	64	6	10'-2	64	6	10'-2	64	6	10'-2	64	6	10'-2	64	6	10'-2	64	6	10'-2	64
5d5	ABUT. DIAPH. ENDS		12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68
5d6	ABUT. DIAPH. LONGIT. B.F.		8	30'-6	254	8	30'-6	254	8	30'-6	254	8	30'-6	254	8	30'-6	254	8	30'-6	254	8	30'-6	254	8	30'-6	254	8	30'-6	254
5d7	PAVING NOTCH LONGIT.		4	30'-10	129	4	30'-10	129	4	30'-10	129	4	30'-10	129	4	30'-10	129	4	30'-10	129	4	30'-10	129	4	30'-10	129	4	30'-10	129
5d8	ABUT. DIAPH. WING EXT. LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	11'-0	275	24	11'-0	275	24	11'-0	275	24	11'-0	275
5d9	ABUT. DIAPH. WING EXT. LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	10'-11	273	24	10'-11	273	24	10'-11	273	24	10'-11	273
5e1	PIER DIAPH. HOOPS		24	9'-1	227	24	9'-1	227	24	10'-4	259	24	10'-4	259	24	10'-4	259	24	11'-4	284	24	11'-4	284	24	11'-4	284	24	11'-4	284
5e2	PIER DIAPH. TIES ENDS		4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11
5e3	PIER DIAPH. TIES		24	3'-5	86	24	3'-5	86	24	3'-5	86	24	3'-5	86	24	3'-5	86	24	3'-5	86	24	3'-5	86	24	3'-5	86	24	3'-5	86
5e4	PIER DIAPH. HOOPS ENDS		4	8'-3	34	4	8'-3	34	4	9'-6	40	4	9'-6	40	4	9'-6	40	4	10'-6	44	4	10'-6	44	4	10'-6	44	4	10'-6	44
8f1	ABUT. FOOTING LONGIT.		18	30'-6	1,466	18	30'-6	1,466	18	30'-6	1,466	18	30'-6	1,466	18	30'-6	1,466	18	30'-8	1,474	18	30'-8	1,474	18	30'-8	1,474	18	30'-8	1,474
8f3	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	10'-4	441	16	10'-4	441	16	10'-4	441	16	10'-4	441
8f4	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	7'-9	166	8	7'-9	166	8	7'-9	166	8	7'-9	166
8f5	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	9'-0	192	8	9'-0	192	8	9'-0	192	8	9'-0	192
8g1	ABUT. VERT.		92	5'-7	1,371	92	5'-7	1,371	92	6'-2	1,515	92	6'-2	1,515	92	6'-2	1,515	88	6'-8	1,566	88	6'-8	1,566	88	6'-8	1,566	88	6'-9	1,586
8g3	ABUT. DIAPH. VERT. B.F.		38	15'-3	1,547	38	15'-3	1,547	38	15'-3	1,547	38	15'-3	1,547	38	15'-3	1,547	38	15'-9	1,598	38	15'-9	1,598	38	15'-9	1,598	38	15'-9	1,598
6g4	ABUT. DIAPH. WING EXT. VERT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40	6'-0	360	40	6'-0	360	40	6'-1	365	40	6'-1	365
5h1	ABUT. WING HORIZ. B.F.		28	6'-8	195	28	6'-8	195	28	6'-8	195	28	6'-8	195	28	6'-8	195	36	6'-8	250	36	6'-8	250	36	6'-8	250	36	6'-8	250
5h2	ABUT. TO WING ANCHOR		56	4'-11	287	56	4'-11	287	56	4'-11	287	56	4'-11	287	56	4'-11	287	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62
5h3	ABUT. WING HORIZ. TRAFFIC FACE		28	6'-9	197	28	6'-9	197	28	6'-9	197	28	6'-9	197	28	6'-9	197	36	6'-9	253	36	6'-9	253	36	6'-9	253	36	6'-9	253
5h4	ABUT. TO WING ANCHOR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62
5j1	TOP OF SLAB TRANSV. (AT RAIL)		332	6'-3	2,164	362	6'-3	2,360	392	6'-3	2,555	422	6'-3	2,751	452	6'-3	2,946	482	6'-3	3,142	512	6'-3	3,338	542	6'-3	3,533	582	6'-3	3,794
5k1	PAVING NOTCH		40	4'-9	198	40	4'-9	198	40	4'-9	198	40	4'-9	198	40	4'-9	198	40	4'-9	198	40	4'-9	198	40	4'-9	198	40	4'-9	198
5k2	PAVING NOTCH		40	3'-5	143	40	3'-5	143	40	3'-5	143	40	3'-5	143	40	3'-5	143	40	3'-5	143	40	3'-5	143	40	3'-5	143	40	3'-5	143
5p1	ABUTMENT HOOPS (WOOD/STEEL)		72/80	10'-6	789/876	80/80	10'-6	876/876	88/80	10'-6	964/876	88/80	10'-6	964/876	88/80	10'-6	964/876	88	10'-6	964	88	10'-6	964	88	10'-6	964	80	10'-6	876
5p2	ABUTMENT HOOPS		8	11'-5	95	8	11'-5	95	8	11'-5	95	8	11'-5	95	8	11'-5	95	24	10'-8	267	24	10'-8	267	24	10'-8	267	24	10'-8	267
6p3	ABUT. BOTT. AT PILES		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	6'-8	240	24	6'-8	240	24	6'-8	240	28	6'-8	280
5p4	ABUT. HOOPS AT ENDS		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	11'-5	95	8	11'-5	95	8	11'-5	95	8	11'-5	95
5r1	PAVING BLOCK LIFTING LOOPS		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	8	2'-10	24	8	2'-10	24
5s1	WING VERT.		64	5'-10	389	64	5'-10	389	64	6'-2	412	64	6'-2	412	64	6'-2	412	64	6'-11	462	64	6'-11	462	64	6'-11	462	64	6'-11	462
4t1	UNDER BEAMS AT ABUTMENTS		8	4'-9	25	8	4'-9	25	8	4'-9	25	8	4'-9	25	8	4'-9	25	8	5'-0	27	8	5'-0	27	8	5'-0	27	8	5'-0	27
#2	PILE SPIRAL (WOOD/STEEL)		20/10	38'-6	129/64	22/10	38'-6	141/64	24/10	38'-6	154/64	24/10	38'-6	154/64	24/12	38'-6	154/77	16	38'-6	103	16	38'-6	103	16	38'-6	103	18	38'-6	116
	SPIRAL SPACERS, L 7/8 x 7/8 x 1/8 x 0.70 (WOOD/STL.)		60/30	1'-10	77/39	66/30	1'-10	85/39	72/30	1'-10	92/39	72/30	1'-10	92/39	72/36	1'-10	92/46	48	1'-10	62	48	1'-10	62	48	1'-10	62	54	1'-10	69
	OPEN RAIL				8,934			9,461			10,175			10,891			11,415			13,359			13,831			14,603			15,393
	TOTAL W/ WOOD PILES				43,508			46,417			49,824			53,246			56,088			—			—			—			—
	TOTAL W/ STEEL H-PILES				43,492			46,294			49,593			53,015			55,877			62,693			66,063			69,172			72,993



BENT BAR DETAILS

REVISED 01-10 - THE WING & ABUTMENT QUANTITIES WERE CHANGED.

01-10
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

DECK & ABUTMENT REINF.
30° SKEW

H24-23-06