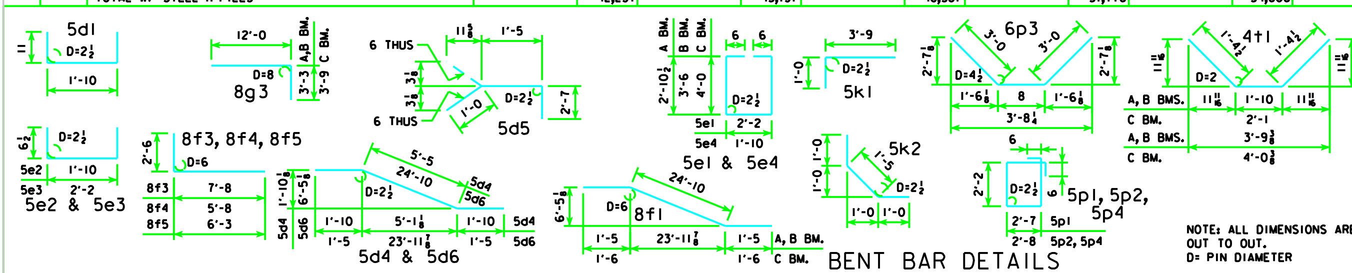
REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

			℄-℄ ABUT. BRG. 138'-10			151'-4			163'-10		
		℄-℄ BEAM BRG.	42'-6	50'-10	42'-6	46'-8	55'-0	46'-8	50'-10	59'-2	50'-10
		BEAM SERIES	A BEAM			A BEAM			B BEAM		
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
6a1	SLAB TRANSV. TOP & BOTT.		325	26'-10	13,099	355	26'-10	14,308	385	26'-10	15,517
6a2	SLAB TRANSV. TOP ENDS		16	VARIES	315	16	VARIES	315	16	VARIES	315
6a3	SLAB TRANSV. BOTT. ENDS		14	VARIES	276	14	VARIES	276	14	VARIES	276
5b1	SLAB LONGITUDINAL, TOP & BOTT.		122	40'-0	5,090	122	40'-0	5,090	183	40'-0	7,635
5b2	SLAB LONGITUDINAL, TOP & BOTT., ENDS		122	33'-4	4,242	122	39'-7	5,037	122	26'-8	3,393
6b3	SLAB LONGITUDINAL, TOP @ PIERS		50	12'-10	964	50	13'-10	1,039	50	14'-10	1,114
7b3	SLAB LONGITUDINAL, TOP @ PIERS		—	—	—	—	—	—	—	—	—
8b3	SLAB LONGITUDINAL, TOP @ PIERS		—	—	—	—	—	—	—	—	—
5d1	PIER DIAPH. ENDS		12	3'-8	46	12	3'-8	46	12	3'-8	46
5d2	PIER & ABUT. DIAPH. LONGIT.		54	6'-6	366	54	6'-6	366	54	6'-6	366
5d3	PIER & ABUT. DIAPH. LONGIT.		18	5'-7	105	18	5'-7	105	18	5'-7	105
5d4	PIER DIAPH. LONGIT.		6	9'-1	57	6	9'-1	57	6	9'-1	57
5d5	ABUT. DIAPH. ENDS		12	5'-0	63	12	5'-0	63	12	5'-0	63
5d6	ABUT. DIAPH. LONGIT. B.F.		8	27'-8	231	8	27'-8	231	8	27'-8	231
5d7	PAVING NOTCH LONGIT.		4	27'-8	115	4	27'-8	115	4	27'-8	115
5d8	ABUT. DIAPH. WING EXT. LONGIT.		—	—	—	—	—	—	—	—	—
5e1	PIER DIAPH. HOOPS		24	8'-11	223	24	8'-11	223	24	10'-2	254
5e2	PIER DIAPH. TIES ENDS		4	2'-11	12	4	2'-11	12	4	2'-11	12
5e3	PIER DIAPH. TIES		24	3'-3	81	24	3'-3	81	24	3'-3	81
5e4	PIER DIAPH. HOOPS ENDS		4	8'-7	36	4	8'-7	36	4	9'-10	41
8f1	ABUT. FOOTING LONGIT.		18	27'-8	1,330	18	27'-8	1,330	18	27'-8	1,330
8f3	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—
8f4	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—
8f5	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—
8g1	ABUT. VERT.		92	5'-7	1,371	92	5'-7	1,371	92	6'-2	1,515
8g3	ABUT. DIAPH. VERT. B.F.		38	15'-3	1,547	38	15'-3	1,547	38	15'-3	1,547
6g4	ABUT. DIAPH. WING EXT. VERT.		—	—	—	—	—	—	—	—	—
5h1	ABUT. WING HORIZ.		56	6'-8	389	56	6'-8	389	56	6'-8	389
5h2	ABUT. TO WING ANCHOR		56	4'-0	234	56	4'-0	234	56	4'-0	234
5j1	TOP OF SLAB TRANSV. (AT RAIL)		336	6'-3	2,190	366	6'-3	2,386	396	6'-3	2,581
5k1	PAVING NOTCH		42	4'-9	208	42	4'-9	208	42	4'-9	208
5k2	PAVING NOTCH		42	3'-5	150	42	3'-5	150	42	3'-5	150
5p1	ABUTMENT HOOPS (WOOD/STEEL)		64/72	10'-6	701/789	72/80	10'-6	789/876	80/80	10'-6	876/876
5p2	ABUTMENT HOOPS		8	10'-8	89	8	10'-8	89	8	10'-8	89
6p3	ABUT. BOTT. AT PILES		—	—	—	—	—	—	—	—	—
5p4	ABUT. HOOPS AT ENDS		—	—	—	—	—	—	—	—	—
5s1	WING VERT.		56	VARIES	263	56	VARIES	263	56	VARIES	263
4t1	UNDER BEAMS AT ABUTMENTS		8	4'-7	24	8	4'-7	24	8	4'-7	24
#2	PILE SPIRAL (WOOD/STEEL)		18/8	38'-6	116/51	20/10	38'-6	129/64	22/10	38'-6	141/64
	SPIRAL SPACERS, L 7/8 x 7/8 x 1/8 x 0.70 (WOOD/STL.)		36/16	1'-10	46/21	40/20	1'-10	51/26	44/20	1'-10	56/26
	OPEN RAIL				8,260			8,774			9,464
	TOTAL W/ WOOD PILES				42,239			45,134			48,488
	TOTAL W/ STEEL H-PILES				42,237			45,131			48,381

		176'-4			188'-10			201'-4		
		55'-0	63'-4	55'-0	59'-2	67'-6	59'-2	63'-4	71'-8	63'-4
		B BEAM			B BEAM			C BEAM		
BAR	LOCATION	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
6a1	SLAB TRANSV. TOP & BOTT.	415	26'-10	16,726	445	26'-10	17,935	475	26'-10	19,144
6a2	SLAB TRANSV. TOP ENDS	16	VARIES	315	16	VARIES	315	16	VARIES	315
6a3	SLAB TRANSV. BOTT. ENDS	14	VARIES	276	14	VARIES	276	14	VARIES	276
5b1	SLAB LONGITUDINAL, TOP & BOTT.	183	40'-0	7,635	183	40'-0	7,635	244	40'-0	10,180
5b2	SLAB LONGITUDINAL, TOP & BOTT., ENDS	122	32'-11	4,189	122	39'-2	4,984	122	26'-3	3,340
6b3	SLAB LONGITUDINAL, TOP @ PIERS	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—
5d1	PIER DIAPH. ENDS	12	3'-8	46	12	3'-8	46	12	3'-8	46
5d2	PIER & ABUT. DIAPH. LONGIT.	54	6'-6	366	54	6'-6	366	54	6'-3	352
5d3	PIER & ABUT. DIAPH. LONGIT.	18	5'-7	105	18	5'-7	105	18	5'-4	100
5d4	PIER DIAPH. LONGIT.	6	9'-1	57	6	9'-1	57	6	9'-1	57
5d5	ABUT. DIAPH. ENDS	12	5'-0	63	12	5'-0	63	12	5'-0	63
5d6	ABUT. DIAPH. LONGIT. B.F.	8	27'-8	231	8	27'-8	231	8	27'-8	231
5d7	PAVING NOTCH LONGIT.	4	27'-8	115	4	27'-8	115	4	27'-8	115
5d8	ABUT. DIAPH. WING EXT. LONGIT.	—	—	—	—	—	—	48	10'-6	526
5e1	PIER DIAPH. HOOPS	24	10'-2	254	24	10'-2	254	24	11'-2	280
5e2	PIER DIAPH. TIES ENDS	4	2'-11	12	4	2'-11	12	4	2'-11	12
5e3	PIER DIAPH. TIES	24	3'-3	81	24	3'-3	81	24	3'-3	81
5e4	PIER DIAPH. HOOPS ENDS	4	9'-10	41	4	9'-10	41	4	10'-10	45
8f1	ABUT. FOOTING LONGIT.	18	27'-8	1,330	18	27'-8	1,330	18	27'-10	1,338
8f3	ABUT. EXTENSION LONGIT.	—	—	—	—	—	—	16	10'-2	434
8f4	ABUT. EXTENSION LONGIT.	—	—	—	—	—	—	8	8'-2	174
8f5	ABUT. EXTENSION LONGIT.	—	—	—	—	—	—	8	8'-9	187
8g1	ABUT. VERT.	92	6'-2	1,515	92	6'-2	1,515	88	6'-8	1,566
8g3	ABUT. DIAPH. VERT. B.F.	38	15'-3	1,547	38	15'-3	1,547	38	15'-9	1,598
6g4	ABUT. DIAPH. WING EXT. VERT.	—	—	—	—	—	—	40	6'-0	360
5h1	ABUT. WING HORIZ.	56	6'-8	389	56	6'-8	389	56	6'-8	389
5h2	ABUT. TO WING ANCHOR	56	4'-0	234	56	4'-0	234	8	4'-0	33
5j1	TOP OF SLAB TRANSV. (AT RAIL)	426	6'-3	2,777	456	6'-3	2,973	486	6'-3	3,168
5k1	PAVING NOTCH	42	4'-9	208	42	4'-9	208	42	4'-9	208
5k2	PAVING NOTCH	42	3'-5	150	42	3'-5	150	42	3'-5	150
5p1	ABUTMENT HOOPS (WOOD/STEEL)	80/80	10'-6	876/876	80/80	10'-6	876/876	88	10'-6	964
5p2	ABUTMENT HOOPS	8	10'-8	89	8	10'-8	89	24	10'-8	267
6p3	ABUT. BOTT. AT PILES	—	—	—	—	—	—	20	6'-8	200
5p4	ABUT. HOOPS AT ENDS	—	—	—	—	—	—	8	10'-8	89
5s1	WING VERT.	56	VARIES	263	56	VARIES	263	56	VARIES	263
4t1	UNDER BEAMS AT ABUTMENTS	8	4'-7	24	8	4'-7	24	8	4'-10	26
#2	PILE SPIRAL (WOOD/STEEL)	22/10	38'-6	141/64	22/10	38'-6	141/64	14	38'-6	90
	SPIRAL SPACERS, L 7/8 x 7/8 x 1/8 x 0.70 (WOOD/STL.)	44/20	1'-10	56/26	44/20	1'-10	56/26	28	1'-10	36
	OPEN RAIL			10,154			10,665			12,170
	TOTAL W/ WOOD PILES			51,883			54,713			—
	TOTAL W/ STEEL H-PILES			51,776			54,606			60,713

		213'-10			226'-4			243'-0		
		67'-6	75'-10	67'-6	71'-8	80'-0	71'-8	80'-0	80'-0	80'-0
		C BEAM			C BEAM			C BEAM		
BAR	LOCATION	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
6a1	SLAB TRANSV. TOP & BOTT.	505	26'-10	20,353	535	26'-10	21,562	575	26'-10	23,175
6a2	SLAB TRANSV. TOP ENDS	16	VARIES	315	16	VARIES	315	16	VARIES	315
6a3	SLAB TRANSV. BOTT. ENDS	14	VARIES	276	14	VARIES	276	14	VARIES	276
5b1	SLAB LONGITUDINAL, TOP & BOTT.	244	40'-0	10,180	244	40'-0	10,180	305	40'-0	12,725
5b2	SLAB LONGITUDINAL, TOP & BOTT., ENDS	122	32'-6	4,135	122	38'-9	4,931	122	27'-11	3,552
6b3	SLAB LONGITUDINAL, TOP @ PIERS	—	—	—	—	—	—	—	—	—
7b3	SLAB LONGITUDINAL, TOP @ PIERS	—	—	—	—	—	—	—	—	—
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'-8	46	12	3'-8	46	12	3'-8	46
5d2	PIER & ABUT. DIAPH. LONGIT.	54	6'-3	352	54	6'-3	352	54	6'-3	352
5d3	PIER & ABUT. DIAPH. LONGIT.	18	5'-4	100	18	5'-4	100	18	5'-4	100
5d4	PIER DIAPH. LONGIT.	6	9'-1	57	6	9'-1	57	6	9'-1	57
5d5	ABUT. DIAPH. ENDS	12	5'-0	63	12	5'-0	63	12	5'-0	63
5d6	ABUT. DIAPH. LONGIT. B.F.	8	27'-8	231	8	27'-8	231	8	27'-8	231
5d7	PAVING NOTCH LONGIT.	4	27'-8	115	4	27'-8	115	4	27'-8	115
5d8	ABUT. DIAPH. WING EXT. LONGIT.	48	10'-6	526	48	10'-6	526	48	10'-6	526
5e1	PIER DIAPH. HOOPS	24	11'-2	280	24	11'-2	280	24	11'-2	280
5e2	PIER DIAPH. TIES ENDS	4	2'-11	12	4	2'-11	12	4	2'-11	12
5e3	PIER DIAPH. TIES	24	3'-3	81	24	3'-3	81	24	3'-3	81
5e4	PIER DIAPH. HOOPS ENDS	4	10'-10	45	4	10'-10	45	4	10'-10	45
8f1	ABUT. FOOTING LONGIT.	18	27'-10	1,338	18	27'-10	1,338	18	27'-10	1,338
8f3	ABUT. EXTENSION LONGIT.	16	10'-2	434	16	10'-2	434	16	10'-2	434
8f4	ABUT. EXTENSION LONGIT.	8	8'-2	174	8	8'-2	174	8	8'-2	174
8f5	ABUT. EXTENSION LONGIT.	8	8'-9	187	8	8'-9	187	8	8'-9	187
8g1	ABUT. VERT.	88	6'-8	1,566	88	6'-8	1,566	88	6'-9	1,586
8g3	ABUT. DIAPH. VERT. B.F.	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'-1	365	40	6'-1	365
5h1	ABUT. WING HORIZ.	56	6'-8	389	56	6'-8	389	56	6'-8	389
5h2	ABUT. TO WING ANCHOR	8	4'-0	33	8	4'-0	33	8	4'-0	33
5j1	TOP OF SLAB TRANSV. (AT RAIL)	516	6'-3	3,364	546	6'-3	3,559	586	6'-3	3,820
5k1	PAVING NOTCH	42	4'-9	208	42	4'-9	208	42	4'-9	208
5k2	PAVING NOTCH	42	3'-5	150	42	3'-5	150	42	3'-5	150
5p1	ABUTMENT HOOPS (WOOD/STEEL)	88	10'-6	964	88	10'-6	964	88	10'-6	964
5p2	ABUTMENT HOOPS	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
5p4	ABUT. HOOPS AT ENDS	8	10'-8	89	8	10'-8	89	8	10'-8	89
5s1	WING VERT.	56	VARIES	263	56	VARIES	263	56	VARIES	263
4t1	UNDER BEAMS AT ABUTMENTS	8	4'-10	26	8	4'-10	26	8	4'-10	26
#2	PILE SPIRAL (WOOD/STEEL)	16	38'-6	103	16	38'-6	103	16	38'-6	103
	SPIRAL SPACERS, L 7/8 x 7/8 x 1/8 x 0.70 (WOOD/STL.)	32	1'-10	41	32	1'-10	41	32	1'-10	41
	OPEN RAIL			12,629			13,375			14,140
	TOTAL W/ WOOD PILES			—			—			—
	TOTAL W/ STEEL H-PILES			64,127			67,211			71,036



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

BENT BAR DETAILS

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

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

DECK & ABUTMENT REINF.
15° SKEW

H24-16-06