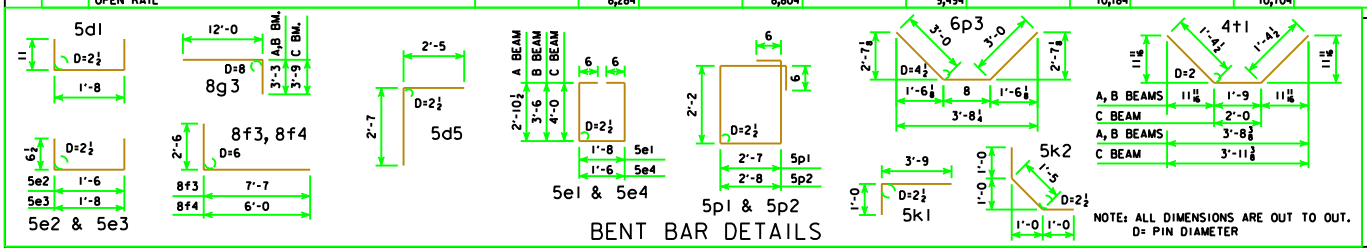
REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

EPOXY COATED REINFORCING

BAR	LOCATION	SHAPE	℄-℄ 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		
				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
6a1	SLAB TRANSV. TOP & BOTT.			339	46'-10	23,847	369	46'-10	25,957	399	46'-10	28,067	429	46'-10	30,177	459	46'-10	32,288	489	46'-10	34,398	519	46'-10	36,508	549	46'-10	38,619	589	46'-10	41,432
5b1	SLAB LONGITUDINAL, TOP & BOTT.			212	40'-0	8,845	212	40'-0	8,845	318	40'-0	13,267	318	40'-0	13,267	318	40'-0	13,267	424	40'-0	17,689	424	40'-0	17,689	424	40'-0	17,689	530	40'-0	22,112
5b2	SLAB LONGITUDINAL, TOP & BOTT., ENDS			212	33'-9	7,463	212	40'-0	8,845	212	27'-3	6,025	212	33'-6	7,407	212	39'-9	8,789	212	27'-0	5,970	212	33'-3	7,352	212	39'-6	8,734	212	28'-10	6,376
6b3	SLAB LONGITUDINAL, TOP @ PIERS			98	12'-10	1,889	98	13'-10	2,036	98	14'-10	2,183	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7b3	SLAB LONGITUDINAL, TOP @ PIERS			—	—	—	—	—	—	—	—	—	98	15'-10	3,172	98	17'-0	3,405	98	18'-0	3,606	—	—	—	—	—	—	—	—	—
8b3	SLAB LONGITUDINAL, TOP @ PIERS			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98	19'-0	4,972	98	20'-0	5,233	98	20'-0	5,233
5d1	PIER DIAPH. ENDS			12	3'-6	44	12	3'-6	44	12	3'-6	44	12	3'-6	44	12	3'-6	44	12	3'-6	44	12	3'-6	44	12	3'-6	44	12	3'-6	44
5d2	PIER & ABUT. DIAPH. LONGIT.			108	6'-2	695	108	6'-2	695	108	6'-2	695	108	6'-2	695	108	6'-2	695	108	5'-11	666	108	5'-11	666	108	5'-11	666	108	5'-11	666
5d3	PIER & ABUT. DIAPH. LONGIT.			36	5'-3	197	36	5'-3	197	36	5'-3	197	36	5'-3	197	36	5'-3	197	36	5'-0	188	36	5'-0	188	36	5'-0	188	36	5'-0	188
5d4	PIER DIAPH. LONGIT.			4	22'-10	95	4	22'-10	95	4	22'-10	95	4	22'-10	95	4	22'-10	95	4	22'-10	95	4	22'-10	95	4	22'-10	95	4	22'-10	95
5d5	ABUT. DIAPH. ENDS			12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63
5d6	ABUT. DIAPH. LONGIT. B.F.			16	24'-6	409	16	24'-6	409	16	24'-6	409	16	24'-6	409	16	24'-6	409	16	24'-6	409	16	24'-6	409	16	24'-6	409	16	24'-6	409
5d7	PAVING NOTCH LONGIT.			8	24'-2	202	8	24'-2	202	8	24'-2	202	8	24'-2	202	8	24'-2	202	8	24'-2	202	8	24'-2	202	8	24'-2	202	8	24'-2	202
5d8	ABUT. DIAPH. WING EXT. LONGIT.			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48	10'-5	522	48	10'-5	522	48	10'-5	522	48	10'-5	522
5e1	PIER DIAPH. HOOPS			48	8'-5	421	48	8'-5	421	48	9'-8	484	48	9'-8	484	48	9'-8	484	48	10'-8	534	48	10'-8	534	48	10'-8	534	48	10'-8	534
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			48	2'-9	138	48	2'-9	138	48	2'-9	138	48	2'-9	138	48	2'-9	138	48	2'-9	138	48	2'-9	138	48	2'-9	138	48	2'-9	138
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.			36	25'-10	2,483	36	25'-10	2,483	36	25'-10	2,483	36	25'-10	2,483	36	25'-10	2,483	36	25'-11	2,491	36	25'-11	2,491	36	25'-11	2,491	36	25'-11	2,491
8f3	ABUT. EXTENSION LONGIT.			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	10'-1	431	16	10'-1	431	16	10'-1	431	16	10'-1	431
8f4	ABUT. EXTENSION LONGIT.			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	8'-6	363	16	8'-6	363	16	8'-6	363	16	8'-6	363
8g1	ABUT. VERT.			158	6'-8	2,812	158	6'-8	2,812	158	7'-3	3,058	158	7'-3	3,058	158	7'-3	3,058	154	7'-9	3,187	154	7'-9	3,187	154	7'-9	3,187	154	7'-10	3,221
8g3	ABUT. DIAPH. VERT. B.F.			74	15'-3	3,013	74	15'-3	3,013	74	15'-3	3,013	74	15'-3	3,013	74	15'-3	3,013	74	15'-9	3,112	74	15'-9	3,112	74	15'-9	3,112	74	15'-9	3,112
6g4	ABUT. DIAPH. WING EXT. VERT.			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40	6'-6	391	40	6'-6	391	40	6'-7	396	40	6'-7	396
5h1	ABUT. WING HORIZ.			56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389
5h2	ABUT. TO WING ANCHOR			56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	8	4'-8	39	8	4'-8	39	8	4'-8	39	8	4'-8	39
5j1	TOP OF SLAB TRANSV. (AT RAIL)			338	6'-3	2,203	368	6'-3	2,399	398	6'-3	2,594	428	6'-3	2,790	458	6'-3	2,986	488	6'-3	3,181	518	6'-3	3,377	548	6'-3	3,572	588	6'-3	3,833
5k1	PAVING NOTCH			78	4'-9	386	78	4'-9	386	78	4'-9	386	78	4'-9	386	78	4'-9	386	78	4'-9	386	78	4'-9	386	78	4'-9	386	78	4'-9	386
5k2	PAVING NOTCH			78	3'-5	278	78	3'-5	278	78	3'-5	278	78	3'-5	278	78	3'-5	278	78	3'-5	278	78	3'-5	278	78	3'-5	278	78	3'-5	278
5p1	ABUTMENT HOOPS (WOOD/STEEL)			112/152	10'-6	1227/1665	120/152	10'-6	1314/1665	128/152	10'-6	1402/1665	128/152	10'-6	1402/1665	136/148	10'-6	1489/1621	156	10'-6	1,708	156	10'-6	1,708	144	10'-6	1,577	144	10'-6	1,577
5p2	ABUTMENT HOOPS			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	10'-8	267	24	10'-8	267	24	10'-8	267	24	10'-8	267
6p3	ABUT. BOTT. AT PILES			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	6'-8	320	32	6'-8	320	36	6'-8	360	36	6'-8	360
5s1	WING VERT.			56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263
4t1	UNDER BEAMS AT ABUTMENTS			14	4'-6	42	14	4'-6	42	14	4'-6	42	14	4'-6	42	14	4'-6	42	14	4'-9	44	14	4'-9	44	14	4'-9	44	14	4'-9	44
#2	PILE SPIRAL (WOOD/STEEL)*			28/14	38'-6	180/90	30/14	38'-6	193/90	32/14	38'-6	206/90	32/14	38'-6	206/90	34/16	38'-6	219/103	20	38'-6	129	20	38'-6	129	22	38'-6	141	22	38'-6	141
	SPIRAL SPACERS, L 1/8"x1/4"x1/4"x 0.70 (WOOD/STL.)*			56/28	1'-10	72/36	60/28	1'-10	77/36	64/28	1'-10	82/36	64/28	1'-10	82/36	68/32	1'-10	87/41	40	1'-10	51	40	1'-10	51	44	1'-10	56	44	1'-10	56
	*EPOXY COATING NOT REQUIRED																													
	SUB TOTAL W/ WOOD PILES**					57,974			61,914			66,389			71,066			75,093			—			—			—			—
	SUB TOTAL W/ STEEL H-PILES**					58,286			62,121			66,490			71,167			75,063			81,609			86,663			90,543			95,716
	**RAIL REINFORCING NOT INCLUDED																													
	BARRIER RAIL					8,015			8,588			9,147			9,679			10,278			11,236			11,794			12,367			13,103
	OPEN RAIL					8,284			8,804			9,494			10,184			10,704			12,210			12,668			13,420			14,185



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 - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE MARCH, 2007 HS25 SUBSTRUCTURE

DECK & ABUTMENT REINF.
0° SKEW

H44-10-07