EPOXY COATED REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BRIDGE LENGTH

BAR	LOCATION	SHAPE	160'-0 NO.	160'-0 LENGTH	160'-0 WEIGHT	180'-0 NO.	180'-0 LENGTH	180'-0 WEIGHT	200'-0 NO.	200'-0 LENGTH	200'-0 WEIGHT	220'-0 NO.	220'-0 LENGTH	220'-0 WEIGHT	240'-0 NO.	240'-0 LENGTH	240'-0 WEIGHT	260'-0 NO.	260'-0 LENGTH	260'-0 WEIGHT	280'-0 NO.	280'-0 LENGTH	280'-0 WEIGHT	300'-0 NO.	300'-0 LENGTH	300'-0 WEIGHT
6a1	SLAB TRANSVERSE, TOP & BOTTOM		337	42'-10	21,682	385	42'-10	24,770	433	42'-10	27,858	481	42'-10	30,946	529	42'-10	34,044	577	42'-10	37,122	625	42'-10	40,210	673	42'-10	43,298
6a2	SLAB TRANSVERSE, TOP-ENDS		54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717
6a3	SLAB TRANSVERSE, BOTTOM-ENDS		54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775
6b1	SLAB LONGITUDINAL TOP & BOTTOM		485	34'-6	25,133	485	38'-6	28,047	582	35'-10	31,325	582	39'-2	34,239	679	36'-9	37,480	679	39'-8	40,455	776	37'-6	43,709	776	40'-0	46,623
5d2	ABUTMENT DIAPHRAGM, LONGITUDINAL		16	24'-2	403	16	24'-2	403	16	24'-2	403	16	24'-2	403	16	24'-2	403	16	24'-2	403	16	24'-2	403	16	24'-2	403
5d5	ABUTMENT DIAPHRAGM, LONGITUDINAL - END		16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84
5d6	ABUTMENT DIAPHRAGM LONGITUDINAL - B.F.		16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429
5d7	PAVING NOTCH, LONGITUDINAL		8	24'-7	205	8	24'-7	205	8	24'-7	205	8	24'-7	205	8	24'-7	205	8	24'-7	205	8	24'-7	205	8	24'-7	205
8f1	ABUTMENT FOOTING LONGITUDINAL - B.F.		36	26'-11	2587	36	26'-11	2587	36	26'-11	2587	36	26'-11	2587	36	26'-11	2587	36	26'-11	2587	36	26'-11	2587	36	26'-11	2587
8g1	ABUTMENT VERTICAL - B.F.		136	6'-5	2330	136	6'-5	2330	136	6'-8	2421	136	7'-1	2572	136	7'-2	2602	136	7'-2	2602	136	7'-2	2602	136	7'-2	2602
8g3	ABUTMENT DIAPHRAGM VERTICAL - B.F.		62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525
5h1	WING HORIZONTAL		56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390
5h2	ABUTMENT TO WING ANCHOR		56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273
5j1	TOP OF SLAB AT RAIL		384	6'-3	2504	432	6'-3	2817	480	6'-3	3129	528	6'-3	3442	576	6'-3	3755	624	6'-3	4068	672	6'-3	4381	720	6'-3	4694
5k1	PAVING NOTCH, TRANSVERSE		64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284
5k2	PAVING NOTCH, TRANSVERSE		64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228
5p1	ABUTMENT HOOPS		144	10'-6	1578	140	10'-6	1534	140	10'-6	1534	140	10'-6	1534	140	10'-6	1534	128	10'-6	1402	128	10'-6	1402	128	10'-6	1402
5p2	ABUTMENT HOOPS AT ENDS		8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95
6p3	ABUTMENT BOTTOM AT PILES		28	6'-8	280	32	6'-8	320	32	6'-8	320	32	6'-8	320	32	6'-8	320	36	6'-8	360	36	6'-8	360	36	6'-8	360
5s1	WING, VERTICAL		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		12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37
4t2	ABUTMENT DIAPHRAGM, LONGITUDINAL F.F.		36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181
	SEE BARRIER RAIL SHEET RS40-71-04				8935			9843			10,717			11,630			12,511			13,422			14,294			15,210
	REINFORCING STEEL - EPOXY COATED (LB)		TOTAL (LB)		73,918	TOTAL (LB)		81,137	TOTAL (LB)		88,780	TOTAL (LB)		96,159	TOTAL (LB)		103,722	TOTAL (LB)		110,907	TOTAL (LB)		118,434	TOTAL (LB)		125,665

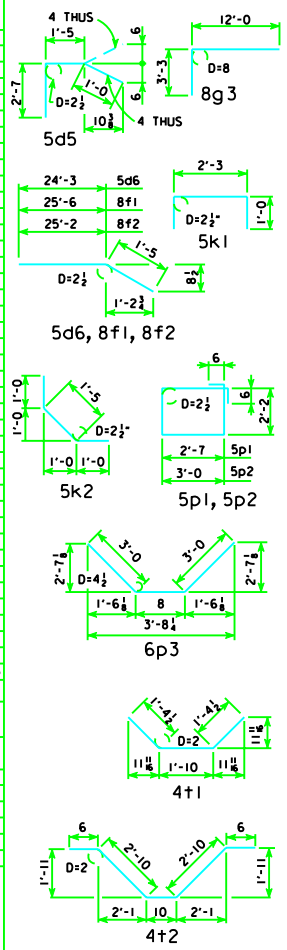
NON-EPOXY COATED REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BRIDGE LENGTH

		160'-0 NO.	160'-0 LENGTH	160'-0 WEIGHT	180'-0 NO.	180'-0 LENGTH	180'-0 WEIGHT	200'-0 NO.	200'-0 LENGTH	200'-0 WEIGHT	220'-0 NO.	220'-0 LENGTH	220'-0 WEIGHT	240'-0 NO.	240'-0 LENGTH	240'-0 WEIGHT	260'-0 NO.	260'-0 LENGTH	260'-0 WEIGHT	280'-0 NO.	280'-0 LENGTH	280'-0 WEIGHT	300'-0 NO.	300'-0 LENGTH	300'-0 WEIGHT
	PILE SPIRAL - NO. 2 BAR	14	38'-6	90	16	38'-6	104	16	38'-6	104	16	38'-6	104	16	38'-6	104	18	38'-6	116	18	38'-6	116	18	38'-6	116
	SPIRAL SPACER L $\frac{7}{8}$x$\frac{7}{8}$x$\frac{1}{8}$x 0.70	28	1'-10	37	32	1'-10	42	32	1'-10	42	32	1'-10	42	32	1'-10	42	36	1'-10	47	36	1'-10	47	36	1'-10	47
	REINFORCING STEEL - NON-EPOXY COATED (LB)	TOTAL (LB)		127	TOTAL (LB)		146	TOTAL (LB)		146	TOTAL (LB)		146	TOTAL (LB)		146	TOTAL (LB)		163	TOTAL (LB)		163	TOTAL (LB)		163

BENT BAR DETAILS



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

REVISION - 07-06 - UPDATED QUANTITIES FOR REINFORCING AND EPOXY COATED REINFORCING STEEL.

07-06
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

FEBRUARY, 2004

DECK AND ABUTMENT REINFORCEMENT 30° SKEW

RS40-37-04