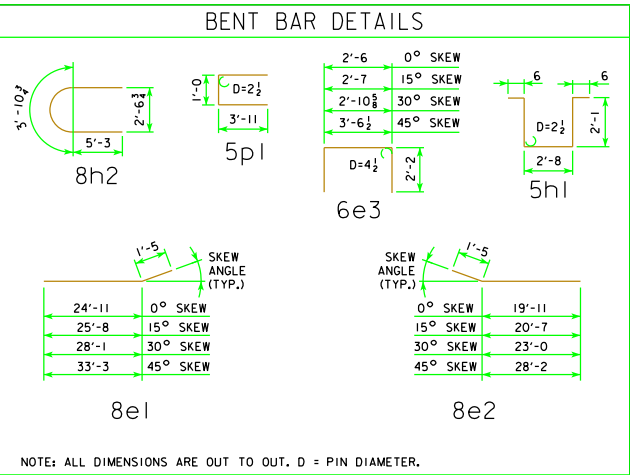


REVISED 12-07 - OPEN RAIL REINFORCING QUANTITY CHANGED

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 120' BRIDGE																		
LOCATION	SKEW	SHAPE	0°				15°				30°				45°			
			BAR	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT			
SLAB LONGITUDINAL BOTTOM		=====	9a1	53	28'-1	5061	53	28'-1	5061	53	28'-1	5061	53	28'-1	5061			
SLAB LONGITUDINAL BOTTOM		=====	9a2	53	41'-3	7433	53	41'-3	7433	53	41'-3	7433	53	41'-3	7433			
SLAB LONGITUDINAL BOTTOM		=====	9a3	53	38'-9	6983	53	38'-9	6983	53	38'-9	6983	53	38'-9	6983			
SLAB LONGITUDINAL BOTTOM		=====	8a4	52	30'-4	4211	52	30'-4	4211	52	30'-4	4211	52	30'-4	4211			
SLAB LONGITUDINAL BOTTOM		=====	9a5	26	36'-6	3227	26	36'-6	3227	26	36'-6	3227	26	36'-6	3227			
SLAB LONGITUDINAL BOTTOM, AT RAIL		=====	9a6	8	37'-2	1011	8	37'-2	1011	8	37'-2	1011	8	37'-2	1011			
SLAB LONGITUDINAL BOTTOM, AT RAIL		=====	9a7	8	12'-0	326	8	12'-0	326	8	12'-0	326	8	12'-0	326			
SLAB LONGITUDINAL BOTTOM, AT RAIL		=====	9a8	4	45'-8	621	4	45'-8	621	4	45'-8	621	4	45'-8	621			
SLAB LONGITUDINAL BOTTOM, AT RAIL		=====	8a9	8	26'-7	568	8	26'-7	568	8	26'-7	568	8	26'-7	568			
SLAB LONGITUDINAL BOTTOM, AT RAIL		=====	8a10	4	25'-6	272	4	25'-6	272	4	25'-6	272	4	25'-6	272			
SLAB LONGITUDINAL TOP		=====	7b1	53	7'-10	849	53	7'-10	849	53	7'-10	849	53	7'-10	849			
SLAB LONGITUDINAL TOP		=====	10b2	53	29'-6	6728	53	29'-6	6728	53	29'-6	6728	53	29'-6	6728			
SLAB LONGITUDINAL TOP		=====	10b3	53	26'-9	6101	53	26'-9	6101	53	26'-9	6101	53	26'-9	6101			
SLAB LONGITUDINAL TOP		=====	7b4	53	22'-1	2392	53	22'-1	2392	53	22'-1	2392	53	22'-1	2392			
SLAB LONGITUDINAL TOP		=====	11b5	52	30'-3	8357	52	30'-3	8357	52	30'-3	8357	52	30'-3	8357			
SLAB LONGITUDINAL TOP		=====	6b6	26	28'-4	1106	26	28'-4	1106	26	28'-4	1106	26	28'-4	1106			
SLAB LONGITUDINAL TOP, AT RAIL		=====	6b8	8	27'-10	334	8	27'-10	334	8	27'-10	334	8	27'-10	334			
SLAB LONGITUDINAL TOP, AT RAIL		=====	10b9	8	29'-0	998	8	29'-0	998	8	29'-0	998	8	29'-0	998			
SLAB LONGITUDINAL TOP, AT RAIL		=====	6b10	4	23'-0	138	4	23'-0	138	4	23'-0	138	4	23'-0	138			
SLAB LONGITUDINAL TOP, AT RAIL		=====	6b11	8	30'-4	364	8	30'-4	364	8	30'-4	364	8	30'-4	364			
SLAB LONGITUDINAL TOP, AT RAIL		=====	11b12	8	23'-0	978	8	23'-0	978	8	23'-0	978	8	23'-0	978			
SLAB TRANSVERSE BOTTOM		=====	6c1	117	23'-5	4115	117	24'-3	4262	110	23'-5	3869	102	23'-5	3588			
SLAB TRANSVERSE BOTTOM		=====	6c2	117	21'-3	3734	117	22'-0	3866	111	21'-3	3543	104	21'-3	3319			
SLAB TRANSVERSE ENDS, BOTTOM		=====	6c3	-	-	-	-	-	-	11	VARIES	226	18	VARIES	386			
SLAB TRANSVERSE ENDS, BOTTOM		=====	6c4	-	-	-	-	-	-	10	VARIES	219	18	VARIES	363			
SLAB TRANSVERSE ENDS, BOTTOM		=====	6c5	-	-	-	-	-	-	10	VARIES	180	17	VARIES	288			
SLAB TRANSVERSE ENDS, BOTTOM		=====	6c6	-	-	-	-	-	-	10	VARIES	193	16	VARIES	319			
SLAB TRANSVERSE TOP		=====	5d1	117	23'-9	2898	117	24'-7	3000	110	23'-9	2725	102	23'-9	2527			
SLAB TRANSVERSE TOP		=====	5d2	117	21'-3	2593	117	22'-0	2685	111	21'-3	2460	104	21'-3	2305			
SLAB TRANSVERSE ENDS, TOP		=====	5d3	-	-	-	-	-	-	11	VARIES	157	18	VARIES	268			
SLAB TRANSVERSE ENDS, TOP		=====	5d4	-	-	-	-	-	-	10	VARIES	152	18	VARIES	252			
SLAB TRANSVERSE ENDS, TOP		=====	5d5	-	-	-	-	-	-	10	VARIES	125	17	VARIES	200			
SLAB TRANSVERSE ENDS, TOP		=====	5d6	-	-	-	-	-	-	10	VARIES	134	16	VARIES	222			
SLAB, TRANSVERSE AT ABUTMENT		=====	8e1	20	26'-4	1406	20	27'-1	1446	20	29'-6	1575	20	34'-8	1851			
SLAB, TRANSVERSE AT ABUTMENT		=====	8e2	20	21'-4	1139	20	22'-0	1175	20	24'-5	1304	20	29'-7	1580			
SLAB, HAIRPINS, AT ABUTMENT		=====	6e3	92	6'-10	944	92	6'-11	956	92	7'-3	1002	92	7'-11	1094			
PIER CAP HOOPS		=====	5h1	72	7'-10	588	72	7'-10	588	72	7'-10	588	96	7'-10	784			
PIER CAP ENDS		=====	8h2	4	14'-5	154	4	14'-5	154	4	14'-5	154	4	14'-5	154			
PIER CAP, BOTTOM LONGITUDINAL		=====	8h3	8	25'-5	543	8	26'-7	568	8	29'-4	627	8	35'-0	748			
PIER CAP, BOTTOM LONGITUDINAL		=====	8h4	8	19'-11	425	8	20'-3	433	8	22'-2	473	8	26'-10	573			
PIER CAP, TOP LONGITUDINAL		=====	8h5	4	26'-2	279	4	27'-5	293	4	30'-4	324	4	36'-1	385			
PIER CAP, TOP LONGITUDINAL		=====	8h6	4	21'-5	229	4	21'-10	233	4	23'-11	255	4	28'-8	306			
TOP OF SLAB, TRANSVERSE, AT RAIL		=====	5j1	232	8'-6	2057	232	8'-6	2057	226	8'-6	2004	224	8'-6	1986			
WING, VERTICAL		=====	5m1-4	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117			
WING, HORIZONTAL		=====	5n1	24	6'-8	167	24	6'-8	167	24	6'-8	167	24	6'-8	167			
PAVING SUPPORT, TRANSVERSE		=====	5p1	40	8'-10	369	42	8'-10	387	46	8'-10	424	56	8'-10	516			
PAVING SUPPORT LONGITUDINAL		=====	5p3	6	22'-9	142	6	24'-0	150	6	26'-5	165	6	31'-9	199			
PAVING SUPPORT LONGITUDINAL		=====	5p4	6	20'-0	125	6	20'-9	130	6	23'-1	144	6	28'-3	177			
SUB TOTAL - LBS.						80,082	80,725						81,364	82,732				
BARRIER RAIL - SEE LIST ON RAIL SHEET J40-46-06						7228	7228						7228	7228				
OPEN RAIL - SEE LIST ON RAIL SHEET J40-49-06						7638	7638						7638	7638				
TOTAL - LBS.			WITH MONOLITHIC PIER CAP	WITH BARRIER RAIL			87,310	87,953			88,592			89,960				
			WITH OPEN RAIL				87,720	88,363			89,002			90,370				
TOTAL - LBS.			WITH NON-MONOLITHIC PIER CAP	WITH BARRIER RAIL			85,092	85,684			86,171			87,010				
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED			WITH OPEN RAIL				85,502	86,094			86,581			87,420				

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 120' BRIDGE									
ITEM		SKEW		WITH MONOLITHIC PIER CAP		WITH NON-MONOLITHIC PIER CAP			
		0°	15°	30°	45°	0°	15°	30°	45°
WITH	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	361.3	362.6	367.1	377.0	355.3	356.4	360.2	368.6
BARRIER RAIL	REINFORCING STEEL EPOXY COATED LBS.	87,310	87,953	88,592	89,960	85,092	85,684	86,171	87,010
CONCRETE BARRIER OR OPEN RAIL		LIN. FT.		262.0	262.2	262.9	264.5	262.0	262.2
WITH	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	361.1	362.4	366.9	376.7	355.0	356.2	360.0	368.3
OPEN RAIL	REINFORCING STEEL EPOXY COATED LBS.	87,720	88,363	89,002	90,370	85,502	86,094	86,581	87,420
* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.									



NOTES:
ALL REINFORCING STEEL SHALL BE EPOXY COATED.

THE TRANSVERSE REBARS ARE DETAILED WITH A SPLICE LAP.
AT THE CONTRACTOR'S OPTION, THIS LAP MAY BE ELIMINATED
BY FURNISHING FULL LENGTH BARS WITH NO REDUCTION IN
PAY WEIGHT FOR SAME.

12-07
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
CONTINUOUS CONCRETE
SLAB BRIDGES
NOVEMBER, 2006

SUPERSTRUCTURE DETAILS
120'-0 BRIDGE

J40-13-06