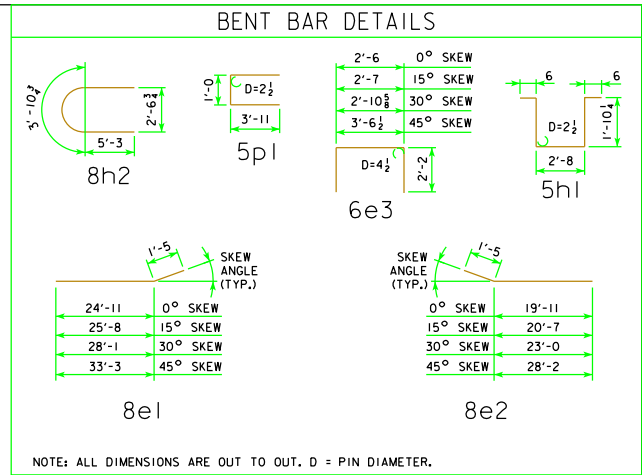


BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 100' BRIDGE																						
LOCATION	SKEW	SHAPE	0°				15°				30°				45°							
			BAR NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT					
SLAB LONGITUDINAL BOTTOM			801	53	23'-4	3302	53	23'-4	3302	53	23'-4	3302	53	23'-4	3302	53	23'-4	3302	53	23'-4	3302	
SLAB LONGITUDINAL BOTTOM			802	53	33'-6	4741	53	33'-6	4741	53	33'-6	4741	53	33'-6	4741	53	33'-6	4741	53	33'-6	4741	
SLAB LONGITUDINAL BOTTOM			803	53	31'-6	4458	53	31'-6	4458	53	31'-6	4458	53	31'-6	4458	53	31'-6	4458	53	31'-6	4458	
SLAB LONGITUDINAL BOTTOM			904	52	29'-10	5275	52	29'-10	5275	52	29'-10	5275	52	29'-10	5275	52	29'-10	5275	52	29'-10	5275	
SLAB LONGITUDINAL BOTTOM			905	26	32'-0	2829	26	32'-0	2829	26	32'-0	2829	26	32'-0	2829	26	32'-0	2829	26	32'-0	2829	
SLAB LONGITUDINAL BOTTOM, AT RAIL			806	8	36'-10	787	8	36'-10	787	8	36'-10	787	8	36'-10	787	8	36'-10	787	8	36'-10	787	
SLAB LONGITUDINAL BOTTOM, AT RAIL			807	4	37'-4	399	4	37'-4	399	4	37'-4	399	4	37'-4	399	4	37'-4	399	4	37'-4	399	
SLAB LONGITUDINAL BOTTOM, AT RAIL			808	8	26'-1	557	8	26'-1	557	8	26'-1	557	8	26'-1	557	8	26'-1	557	8	26'-1	557	
SLAB LONGITUDINAL BOTTOM, AT RAIL			809	4	22'-6	240	4	22'-6	240	4	22'-6	240	4	22'-6	240	4	22'-6	240	4	22'-6	240	
SLAB LONGITUDINAL TOP			601	53	5'-10	464	53	5'-10	464	53	5'-10	464	53	5'-10	464	53	5'-10	464	53	5'-10	464	
SLAB LONGITUDINAL TOP			10b2	53	26'-9	6101	53	26'-9	6101	53	26'-9	6101	53	26'-9	6101	53	26'-9	6101	53	26'-9	6101	
SLAB LONGITUDINAL TOP			10b3	53	27'-6	6272	53	27'-6	6272	53	27'-6	6272	53	27'-6	6272	53	27'-6	6272	53	27'-6	6272	
SLAB LONGITUDINAL TOP			704	53	15'-4	1661	53	15'-4	1661	53	15'-4	1661	53	15'-4	1661	53	15'-4	1661	53	15'-4	1661	
SLAB LONGITUDINAL TOP			605	52	12'-7	983	52	12'-7	983	52	12'-7	983	52	12'-7	983	52	12'-7	983	52	12'-7	983	
SLAB LONGITUDINAL TOP			906	52	22'-9	4022	52	22'-9	4022	52	22'-9	4022	52	22'-9	4022	52	22'-9	4022	52	22'-9	4022	
SLAB LONGITUDINAL TOP			607	26	26'-10	1048	26	26'-10	1048	26	26'-10	1048	26	26'-10	1048	26	26'-10	1048	26	26'-10	1048	
SLAB LONGITUDINAL TOP, AT RAIL			608	8	24'-4	292	8	24'-4	292	8	24'-4	292	8	24'-4	292	8	24'-4	292	8	24'-4	292	
SLAB LONGITUDINAL TOP, AT RAIL			909	8	23'-6	639	8	23'-6	639	8	23'-6	639	8	23'-6	639	8	23'-6	639	8	23'-6	639	
SLAB LONGITUDINAL TOP, AT RAIL			6010	4	21'-0	126	4	21'-0	126	4	21'-0	126	4	21'-0	126	4	21'-0	126	4	21'-0	126	
SLAB LONGITUDINAL TOP, AT RAIL			6011	8	26'-4	316	8	26'-4	316	8	26'-4	316	8	26'-4	316	8	26'-4	316	8	26'-4	316	
SLAB LONGITUDINAL TOP, AT RAIL			10b12	8	19'-0	654	8	19'-0	654	8	19'-0	654	8	19'-0	654	8	19'-0	654	8	19'-0	654	
SLAB TRANSVERSE BOTTOM			6c1	97	23'-5	3412	97	24'-3	3533	90	23'-5	3165	82	23'-5	2884							
SLAB TRANSVERSE BOTTOM			6c2	97	21'-3	3096	97	22'-0	3205	91	21'-3	2904	84	21'-3	2681							
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	97	23'-9	2403	97	24'-7	2487	90	23'-9	2229	82	23'-9	2031							
SLAB TRANSVERSE TOP			5d2	97	21'-3	2150	97	22'-0	2226	91	21'-3	2017	84	21'-3	1862							
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	60	7'-5	464	60	7'-5	464	80	7'-5	619	100	7'-5	774							
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	192	8'-6	1702	192	8'-6	1702	186	8'-6	1649	184	8'-6	1631							
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.							64,432				64,992				65,867				67,194			
BARRIER RAIL - SEE LIST ON RAIL SHEET J40-46-06							6153				6153				6153				6153			
OPEN RAIL - SEE LIST ON RAIL SHEET J40-49-06							6371				6371				6371				6371			
TOTAL - LBS.			WITH MONOLITHIC PIER CAP				70,585				71,145				72,020				73,347			
			WITH OPEN RAIL				70,803				71,363				72,238				73,565			
TOTAL - LBS.			WITH NON-MONOLITHIC PIER CAP				68,491				69,000				69,568				70,407			
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED			WITH OPEN RAIL				68,709				69,218				69,786				70,625			

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 100' BRIDGE													
ITEM		SKEW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP						
			0°	15°	30°	45°	0°	15°	30°	45°			
WITH BARRIER RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.		275.6	277.0	281.7	291.7	269.6	270.8	274.7	283.4			
	REINFORCING STEEL EPOXY COATED LBS.		70,585	71,145	72,020	73,347	68,491	69,000	69,568	70,407			
	CONCRETE BARRIER OR OPEN RAIL LIN. FT.		222.0	222.2	222.9	224.5	222.0	222.2	222.9	224.5			
WITH OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.		275.5	276.8	281.5	291.5	269.4	270.6	274.6	283.2			
	REINFORCING STEEL EPOXY COATED LBS.		70,803	71,363	72,238	73,565	68,709	69,218	69,786	70,625			
* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.													

* 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
100'-0' BRIDGE

J40-09-06