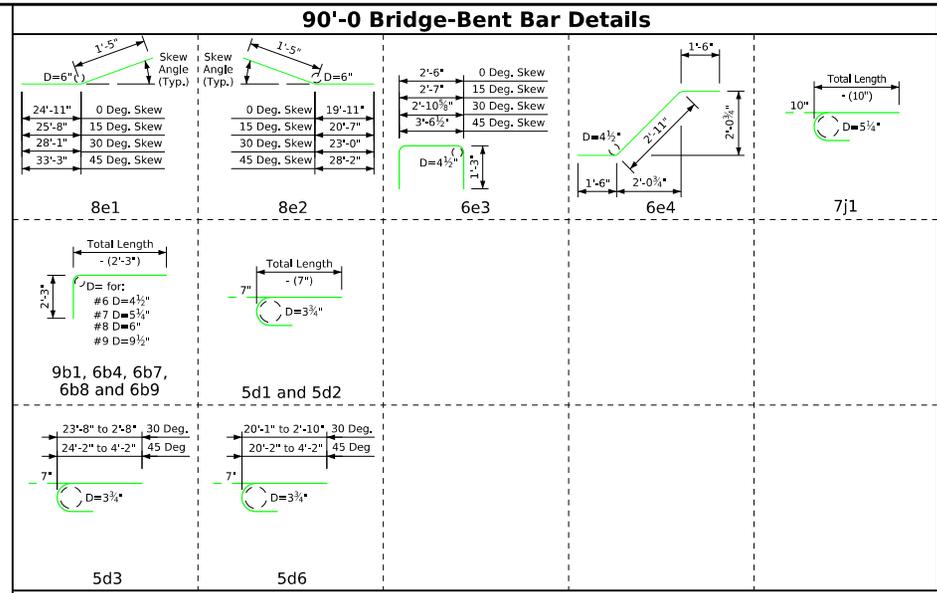


Epoxy Steel Reinforcing for Superstructure-90' Bridge																	
Location	Degree Skew	0				15				30				45			
		Bar	No.	Length	Weight	Bar	No.	Length	Weight	Bar	No.	Length	Weight	Bar	No.	Length	Weight
Slab Longitudinal Bottom	8a1	53	19'-4"	2736	53	19'-4"	2736	53	19'-4"	2736	53	19'-4"	2736	53	19'-4"	2736	
Slab Longitudinal Bottom	8a2	53	28'-8"	4057	53	28'-8"	4057	53	28'-8"	4057	53	28'-8"	4057	53	28'-8"	4057	
Slab Longitudinal Bottom	8a3	53	29'-2"	4128	53	29'-2"	4128	53	29'-2"	4128	53	29'-2"	4128	53	29'-2"	4128	
Slab Longitudinal Bottom	8a4	52	27'-9"	3159	52	27'-9"	3159	52	27'-9"	3159	52	27'-9"	3159	52	27'-9"	3159	
Slab Longitudinal Bottom	8a5	26	26'-2"	1817	26	26'-2"	1817	26	26'-2"	1817	26	26'-2"	1817	26	26'-2"	1817	
Slab Longitudinal Bottom, at Rail	8a6	8	32'-9"	700	8	32'-9"	700	8	32'-9"	700	8	32'-9"	700	8	32'-9"	700	
Slab Longitudinal Bottom, at Rail	8a7	4	34'-0"	364	4	34'-0"	364	4	34'-0"	364	4	34'-0"	364	4	34'-0"	364	
Slab Longitudinal Bottom, at Rail	8a8	8	23'-3"	497	8	23'-3"	497	8	23'-3"	497	8	23'-3"	497	8	23'-3"	497	
Slab Longitudinal Bottom, at Rail	8a9	4	25'-11"	277	4	25'-11"	277	4	25'-11"	277	4	25'-11"	277	4	25'-11"	277	
Slab Longitudinal Top	9b1	53	17'-3"	3109	53	17'-3"	3109	53	17'-3"	3109	53	17'-3"	3109	53	17'-3"	3109	
Slab Longitudinal Top	9b2	53	16'-10"	3034	53	16'-10"	3034	53	16'-10"	3034	53	16'-10"	3034	53	16'-10"	3034	
Slab Longitudinal Top	9b3	53	17'-3"	3109	53	17'-3"	3109	53	17'-3"	3109	53	17'-3"	3109	53	17'-3"	3109	
Slab Longitudinal Top	6b4	52	27'-5"	2142	52	27'-5"	2142	52	27'-5"	2142	52	27'-5"	2142	52	27'-5"	2142	
Slab Longitudinal Top	9b5	52	13'-7"	2402	52	13'-7"	2402	52	13'-7"	2402	52	13'-7"	2402	52	13'-7"	2402	
Slab Longitudinal Top	6b6	26	29'-0"	1133	26	29'-0"	1133	26	29'-0"	1133	26	29'-0"	1133	26	29'-0"	1133	
Slab Longitudinal Top	6b7	53	21'-10"	1739	53	21'-10"	1739	53	21'-10"	1739	53	21'-10"	1739	53	21'-10"	1739	
Slab Longitudinal Top, at Rail	6b8	8	28'-5"	342	8	28'-5"	342	8	28'-5"	342	8	28'-5"	342	8	28'-5"	342	
Slab Longitudinal Top, at Rail	6b9	8	29'-11"	360	8	29'-11"	360	8	29'-11"	360	8	29'-11"	360	8	29'-11"	360	
Slab Longitudinal Top, at Rail	6b10	4	25'-10"	156	4	25'-10"	156	4	25'-10"	156	4	25'-10"	156	4	25'-10"	156	
Slab Longitudinal Top, at Rail	9b11	8	14'-2"	386	8	14'-2"	386	8	14'-2"	386	8	14'-2"	386	8	14'-2"	386	
Slab Longitudinal Top, at Rail	8b12	8	8'-9"	187	8	8'-9"	187	8	8'-9"	187	8	8'-9"	187	8	8'-9"	187	
Slab Transverse Bottom	6c1	87	24'-4"	3180	87	25'-2"	3289	77	24'-4"	2815	67	24'-4"	2449				
Slab Transverse Bottom	6c2	87	21'-3"	2777	87	22'-0"	2875	79	21'-3"	2522	71	21'-3"	2267				
Slab Transverse Ends, Bottom	6c3	-	-	-	-	-	-	13	VARIES	262	21	VARIES	447				
Slab Transverse Ends, Bottom	6c4	-	-	-	-	-	-	11	VARIES	233	20	VARIES	386				
Slab Transverse Ends, Bottom	6c5	-	-	-	-	-	-	10	VARIES	173	17	VARIES	298				
Slab Transverse Ends, Bottom	6c6	-	-	-	-	-	-	11	VARIES	191	17	VARIES	311				
Slab Transverse Top	5d1	87	25'-3"	2292	87	26'-1"	2367	77	25'-3"	2028	67	25'-3"	1765				
Slab Transverse Top	5d2	87	21'-10"	1982	87	22'-7"	2050	79	21'-10"	1800	71	21'-10"	1617				
Slab Transverse Ends, Top	5d3	-	-	-	-	-	-	13	VARIES	188	21	VARIES	324				
Slab Transverse Ends, Top	5d4	-	-	-	-	-	-	11	VARIES	166	20	VARIES	275				
Slab Transverse Ends, Top	5d5	-	-	-	-	-	-	10	VARIES	120	17	VARIES	207				
Slab Transverse Ends, Top	5d6	-	-	-	-	-	-	11	VARIES	139	17	VARIES	227				
Slab, Transverse at Abutment	8e1	18	26'-4"	1266	18	27'-1"	1302	18	29'-6"	1418	18	34'-8"	1667				
Slab, Transverse at Abutment	8e2	18	21'-4"	1026	18	22'-0"	1058	18	24'-5"	1174	18	29'-7"	1422				
Slab, Transverse at Abutment	6e3	92	5'-0"	691	92	5'-1"	703	92	5'-5"	749	92	6'-1"	841				
Slab, Transverse at Abutment	6e4	92	5'-11"	818	92	5'-11"	818	92	5'-11"	818	92	5'-11"	818				
Top of Slab, Transverse, at Rail	7j1	172	8'-3"	2901	172	8'-3"	2901	162	8'-3"	2732	156	8'-3"	2631				
Wing, Vertical	5m1	40	4'-5"	185	40	4'-5"	185	40	4'-5"	185	40	4'-5"	185				
Wing, Horizontal Back Face	5n1	48	6'-8"	334	48	6'-8"	334	48	6'-8"	334	48	6'-8"	334				



Stainless Steel Reinforcing for Superstructure					
(All Skews)					
Location	Shape	Bar	No.	Length	Weight
Abutment Paving Notch Bar		8u1	40	2'-1	223

8u1 bars are to be paid for under the price bid for "Reinforcing Steel, Stainless Steel". Weight = lbs.

### Estimated Quantities for Superstructure 90' Bridge

Item	Monolithic Cap				Non-Monolithic Cap			
	0°	15°	30°	45°	0°	15°	30°	45°
With Single-Slope Rail								
* Structural Concrete (Bridge) (c.y.)	219.4	220.2	222.4	227.7	222.7	223.5	226.3	232.3
Reinf. Steel Epoxy Coated (lbs.)	55,678	56,108	56,273	56,697	55,678	56,108	56,273	56,697
Δ Reinf. Steel Stainless Steel (lbs.)	2243	2243	2243	2243	2243	2243	2243	2243
Concrete single-slope barrier or open rail (lin.ft.)	202	202.2	202.9	204.5	202	202.2	202.9	204.5
With Open Rail								
* Structural Concrete (Bridge) (c.y.)	219.3	220.1	222.3	227.6	222.5	223.4	226.1	232.1
Reinf. Steel Epoxy Coated (lbs.)	56,333	56,763	56,928	57,352	56,333	56,763	56,928	57,352
Δ Reinf. Steel Stainless Steel (lbs.)	2090	2090	2090	2090	2090	2090	2090	2090

\* Includes 4 wings at 1.114 cubic yard each; excludes rail concrete.  
 Δ Includes abutment paving notch bar weight.

**Note:** See J40-26-25 Sheet for Monolithic Pier Cap reinforcing details and quantities. See J40-28-25 Sheet for Non-Monolithic Pier Cap reinforcing details and quantities.

Latest Revision Date  Approved By Bridge Engineer	IOWA   DOT
	Standard Design-40'-0" Roadway, 3 Span Bridge
	Continuous Concrete Slab Bridge
July, 2025	
Superstructure Details 90'-0" Bridge Quantities	J40-07-25