

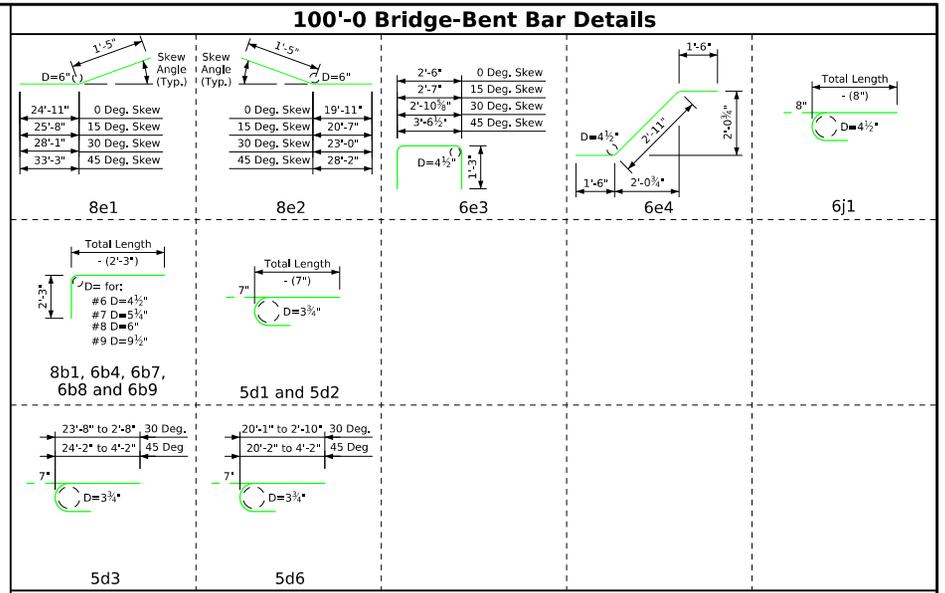
Epoxy Steel Reinforcing for Superstructure-100' Bridge																	
Location	Degree Skew	0				15				30				45			
		Bar No.	Length	Weight													
Slab Longitudinal Bottom	8a1	53	20'-6"	2901	53	20'-6"	2901	53	20'-6"	2901	53	20'-6"	2901	53	20'-6"	2901	
Slab Longitudinal Bottom	8a2	53	31'-2"	4411	53	31'-2"	4411	53	31'-2"	4411	53	31'-2"	4411	53	31'-2"	4411	
Slab Longitudinal Bottom	8a3	53	32'-4"	4576	53	32'-4"	4576	53	32'-4"	4576	53	32'-4"	4576	53	32'-4"	4576	
Slab Longitudinal Bottom	9a4	52	25'-3"	4465	52	25'-3"	4465	52	25'-3"	4465	52	25'-3"	4465	52	25'-3"	4465	
Slab Longitudinal Bottom, at Rail	9a5	26	29'-0"	2564	26	29'-0"	2564	26	29'-0"	2564	26	29'-0"	2564	26	29'-0"	2564	
Slab Longitudinal Bottom, at Rail	8a6	8	35'-9"	764	8	35'-9"	764	8	35'-9"	764	8	35'-9"	764	8	35'-9"	764	
Slab Longitudinal Bottom, at Rail	8a7	4	38'-0"	406	4	38'-0"	406	4	38'-0"	406	4	38'-0"	406	4	38'-0"	406	
Slab Longitudinal Bottom, at Rail	8a8	8	25'-6"	545	8	25'-6"	545	8	25'-6"	545	8	25'-6"	545	8	25'-6"	545	
Slab Longitudinal Bottom, at Rail	8a9	4	28'-4"	303	4	28'-4"	303	4	28'-4"	303	4	28'-4"	303	4	28'-4"	303	
Slab Longitudinal Top	8b1	53	6'-7"	932	53	6'-7"	932	53	6'-7"	932	53	6'-7"	932	53	6'-7"	932	
Slab Longitudinal Top	10b2	53	18'-11"	4315	53	18'-11"	4315	53	18'-11"	4315	53	18'-11"	4315	53	18'-11"	4315	
Slab Longitudinal Top	10b3	53	18'-0"	4106	53	18'-0"	4106	53	18'-0"	4106	53	18'-0"	4106	53	18'-0"	4106	
Slab Longitudinal Top	6b4	52	30'-9"	2402	52	30'-9"	2402	52	30'-9"	2402	52	30'-9"	2402	52	30'-9"	2402	
Slab Longitudinal Top	9b5	52	13'-0"	2299	52	13'-0"	2299	52	13'-0"	2299	52	13'-0"	2299	52	13'-0"	2299	
Slab Longitudinal Top	6b6	26	33'-6"	1309	26	33'-6"	1309	26	33'-6"	1309	26	33'-6"	1309	26	33'-6"	1309	
Slab Longitudinal Top	6b7	53	25'-3"	2011	53	25'-3"	2011	53	25'-3"	2011	53	25'-3"	2011	53	25'-3"	2011	
Slab Longitudinal Top, at Rail	6b8	8	30'-7"	368	8	30'-7"	368	8	30'-7"	368	8	30'-7"	368	8	30'-7"	368	
Slab Longitudinal Top, at Rail	6b9	8	31'-11"	384	8	31'-11"	384	8	31'-11"	384	8	31'-11"	384	8	31'-11"	384	
Slab Longitudinal Top, at Rail	6b10	4	27'-8"	167	4	27'-8"	167	4	27'-8"	167	4	27'-8"	167	4	27'-8"	167	
Slab Longitudinal Top, at Rail	9b11	8	16'-1"	438	8	16'-1"	438	8	16'-1"	438	8	16'-1"	438	8	16'-1"	438	
Slab Longitudinal Top, at Rail	9b12	8	10'-9"	293	8	10'-9"	293	8	10'-9"	293	8	10'-9"	293	8	10'-9"	293	
Slab Transverse Bottom	6c1	97	24'-4"	3546	97	25'-2"	3667	87	24'-4"	3180	77	24'-4"	2815				
Slab Transverse Bottom	6c2	97	21'-3"	3096	97	22'-0"	3206	89	21'-3"	2841	81	21'-3"	2586				
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	97	25'-3"	2555	97	26'-1"	2639	87	25'-3"	2292	77	25'-3"	2028				
Slab Transverse Top	5d2	97	21'-10"	2209	97	22'-7"	2285	89	21'-10"	2027	81	21'-10"	1845				
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	6j1	192	7'-7"	2187	192	7'-7"	2187	182	7'-7"	2074	176	7'-7"	2005				
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				
Epoxy Reinforcing Total Weight (lbs)				57,872			58,343			58,523			58,980				
Rail Single-Slope Barrier - Quantities - See Sheet J40-48-25.				4461			4461			4461			4461				
Rail Open Barrier - Quantities - See Sheet J40-52-25.				5151			5151			5151			5151				
Epoxy Coated Rail Total-Ibs. Monolithic Single-Slope Rail				62,333			62,804			62,984			63,441				
Epoxy Coated Rail Total-Ibs. Monolithic Open Rail				63,023			63,494			63,674			64,131				
Epoxy Coated Rail Total-Ibs. Non-Monolithic Single-Slope Rail				62,333			62,804			62,984			63,441				
Epoxy Coated Rail Total-Ibs. Non-Monolithic Open Rail				63,023			63,494			63,674			64,131				
Stainless Steel Rail Total-Ibs. Single-Slope Rail				2221			2221			2221			2221				
Stainless Steel Rail Total-Ibs. Open Rail				2020			2020			2020			2020				

**Estimated Quantities for Superstructure 100' Bridge**

Item	Monolithic Cap				Non-Monolithic Cap			
	0°	15°	30°	45°	0°	15°	30°	45°
With Single-Slope Rail								
* Structural Concrete (Bridge) (c.y.)	257.2	258	260.2	265.3	260.5	261.3	264	269.9
Reinf. Steel Epoxy Coated (lbs.)	62,333	62,804	62,984	63,441	62,333	62,804	62,984	63,441
Δ Reinf. Steel Stainless Steel (lbs.)	2444	2444	2444	2444	2444	2444	2444	2444
Concrete single-slope barrier or open rail (lin.ft.)	222	222.2	222.9	224.5	222	222.2	222.9	224.5
With Open Rail								
* Structural Concrete (Bridge) (c.y.)	257	257.8	260	265.1	260.4	261.2	263.9	269.7
Reinf. Steel Epoxy Coated (lbs.)	63,023	63,494	63,674	64,131	63,023	63,494	63,674	64,131
Δ Reinf. Steel Stainless Steel (lbs.)	2243	2243	2243	2243	2243	2243	2243	2243

\* Includes 4 wings at 1.114 cubic yard each; excludes rail concrete.

Δ Includes abutment paving notch bar weight.



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.

**IOWA | DOT**

Standard Design-40'-0" Roadway, 3 Span Bridge

**Continuous Concrete Slab Bridge**

July, 2025

Superstructure Details  
100'-0" Bridge Quantities

**J40-09-25**

Latest Revision Date: [Signature]  
Approved By Bridge Engineer: [Signature]