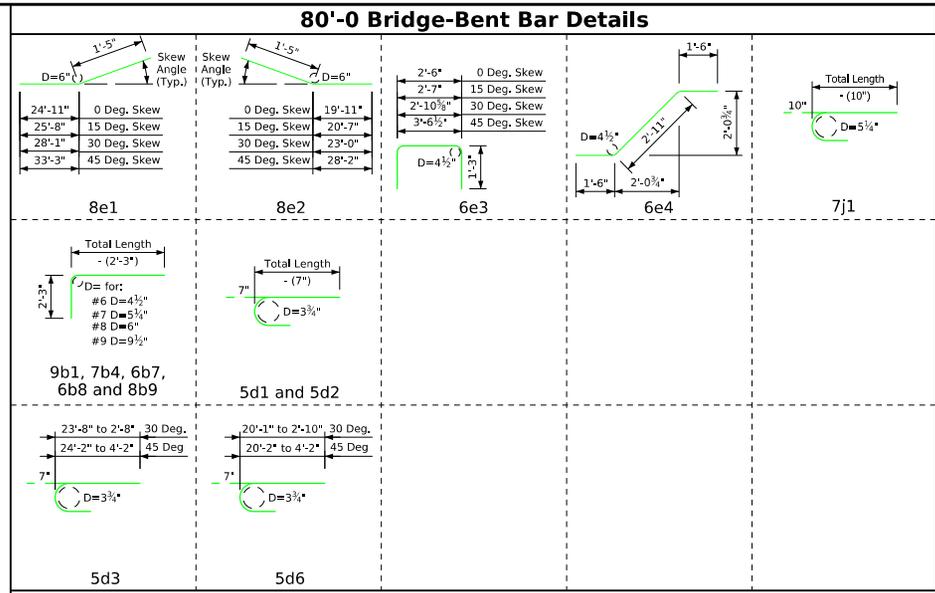


Epoxy Steel Reinforcing for Superstructure-80' Bridge													
Location	0		15		30		45		45		Weight		
	Bar	No.	Length	Weight	Bar	No.	Length	Weight	Bar	No.		Length	Weight
Slab Longitudinal Bottom	8a1	53	17'-9"	2512	53	17'-9"	2512	53	17'-9"	2512	53	17'-9"	2512
Slab Longitudinal Bottom	8a2	53	25'-11"	3668	53	25'-11"	3668	53	25'-11"	3668	53	25'-11"	3668
Slab Longitudinal Bottom	8a3	53	26'-0"	3680	53	26'-0"	3680	53	26'-0"	3680	53	26'-0"	3680
Slab Longitudinal Bottom	7a4	52	20'-3"	2153	52	20'-3"	2153	52	20'-3"	2153	52	20'-3"	2153
Slab Longitudinal Bottom, at Rail	7a5	26	23'-3"	1236	26	23'-3"	1236	26	23'-3"	1236	26	23'-3"	1236
Slab Longitudinal Bottom, at Rail	7a6	8	28'-8"	469	8	28'-8"	469	8	28'-8"	469	8	28'-8"	469
Slab Longitudinal Bottom, at Rail	7a7	4	30'-4"	249	4	30'-4"	249	4	30'-4"	249	4	30'-4"	249
Slab Longitudinal Bottom, at Rail	8a8	8	22'-3"	476	8	22'-3"	476	8	22'-3"	476	8	22'-3"	476
Slab Longitudinal Bottom, at Rail	8a9	4	26'-1"	279	4	26'-1"	279	4	26'-1"	279	4	26'-1"	279
Slab Longitudinal Top	9b1	53	7'-7"	1367	53	7'-7"	1367	53	7'-7"	1367	53	7'-7"	1367
Slab Longitudinal Top	9b2	53	15'-9"	2839	53	15'-9"	2839	53	15'-9"	2839	53	15'-9"	2839
Slab Longitudinal Top	9b3	53	14'-9"	2658	53	14'-9"	2658	53	14'-9"	2658	53	14'-9"	2658
Slab Longitudinal Top	7b4	52	26'-7"	2826	52	26'-7"	2826	52	26'-7"	2826	52	26'-7"	2826
Slab Longitudinal Top	8b5	52	11'-3"	1562	52	11'-3"	1562	52	11'-3"	1562	52	11'-3"	1562
Slab Longitudinal Top	6b6	26	26'-8"	1042	26	26'-8"	1042	26	26'-8"	1042	26	26'-8"	1042
Slab Longitudinal Top	6b7	53	21'-4"	1699	53	21'-4"	1699	53	21'-4"	1699	53	21'-4"	1699
Slab Longitudinal Top, at Rail	6b8	8	25'-11"	312	8	25'-11"	312	8	25'-11"	312	8	25'-11"	312
Slab Longitudinal Top, at Rail	8b9	8	31'-8"	677	8	31'-8"	677	8	31'-8"	677	8	31'-8"	677
Slab Longitudinal Top, at Rail	9b10	8	23'-3"	633	8	23'-3"	633	8	23'-3"	633	8	23'-3"	633
Slab Transverse Bottom	6c1	77	24'-4"	2815	77	25'-2"	2911	67	24'-4"	2449	57	24'-4"	2084
Slab Transverse Bottom	6c2	77	21'-3"	2458	77	22'-0"	2545	69	21'-3"	2203	61	21'-3"	1947
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	77	25'-3"	2028	77	26'-1"	2095	67	25'-3"	1765	57	25'-3"	1502
Slab Transverse Top	5d2	77	21'-10"	1754	77	22'-7"	1814	69	21'-10"	1572	61	21'-10"	1390
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	152	8'-3"	2564	152	8'-3"	2564	142	8'-3"	2395	136	8'-3"	2294
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 80' Bridge

Item	Monolithic Cap				Non-Monolithic Cap			
	0°	15°	30°	45°	0°	15°	30°	45°
<b>With Single-Slope Rail</b>								
* Structural Concrete (Bridge) (c.y.)	187.4	188.3	190.5	195.9	190.8	191.6	196.1	200.5
Reinf. Steel Epoxy Coated (lbs.)	50,074	50,464	50,669	51,094	50,074	50,464	50,669	51,094
Δ Reinf. Steel Stainless Steel (lbs.)	2049	2049	2049	2049	2049	2049	2049	2049
Concrete single-slope barrier or open rail (lin.ft.)	182	182.2	182.9	184.5	182	182.2	182.9	184.5
<b>With Open Rail</b>								
* Structural Concrete (Bridge) (c.y.)	187.3	188.1	190.4	195.8	190.6	191.5	194.3	200.4
Reinf. Steel Epoxy Coated (lbs.)	50,703	51,093	51,298	51,723	50,703	51,093	51,298	51,723
Δ Reinf. Steel Stainless Steel (lbs.)	1940	1940	1940	1940	1940	1940	1940	1940

\* 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 80'-0" Bridge Quantities	J40-05-25