

STEEL GIRDER DESIGN CRITERIA

Designed by DRB Date: 9/29/09

Checked by FAQ Date: 9/29/09

Deck Top Clearance	2.75	in	North of the Fall Line	GDOT Fig. 4-4
Seismic Analysis	not req'd			GDOT Fig. 4-5
Sacrificial Concrete at Top	0.25	in		GDOT 3.12.2.3
Future Wearing Surface	30	psf		GDOT 2.2.1
Deck Concrete Strength	3,500	psi		GDOT 3.1.4
New Steel Girder Main Member Grade	50	ksi		
New Steel Girder secondary Member Grade	36 or 50	ksi		
Widening Steel Girder Grade	36 or 50	ksi		
Concrete Density for Weight	150	pcf		
Concrete Density for E	145	pcf		GDOT p.3-105
Barrier	2'-8" Jersey			
Barrier Overhang Width	1.625	ft	Measured from Curb to Edge of Deck	
Barrier Weight	410	plf	Individual Barrier scaled in CAD	
Girder Design	Load Factor			
Live Load	HS20			
Sidewalk Live Load	0	psf		
Utility	0	plf	Load applied per beam	
Lighting Post				
Sound Wall				

NOTES:

- 1 Steel is used if the bridge to be widened was steel
- 2 Use steel diaphragms for steel girders
- 3 Slab Design is in accordance with the GDOT Slab Tables
- 4 Slab Overhang Design must be completed separately
- 5 Utility, etc loading is not included in the design.