

Florida's Turnpike Enterprise Flexible Pavement Design Checklist

	FPDM	Satisfactory Yes/No/NA
Digitally Signed & Sealed Cover Page with Concurrence Signature Block for District Design Engineer's Approval	TDH 120.2.7.1	
Project Description include Type of Work	TDH 120.2.7.1	
Traffic Data Analysis	TDH 120.2.7.1	
Summary Design Criteria	TDH 120.2.7.1	
Typical Section Analysis (Drawing (TSP) or Written)	TDH 120.2.7.1	
Pavement Recommendations (M&R, Full Depth, Cross Slope Correction, Overbuild, etc.)	TDH 120.2.7.1	
Calculations for Pavement Design	TDH 120.2.7.1	
Pavement Type Selection Memo (If Applicable)	TDH 120.2.7.1	
New Construction and Widening		
Field Review (Visual Inspection)	Scope	
Correct Reliability (%R)	Table 5.2	
Traffic Data and ESAL Calculations match TL for Pavement Design	2.2.1	
Resilient Modulus (Mr) from Testing when required	5.2.3	
Base Material & High Water Clearance Evaluated	5.2.2	
Friction Course Material - Correct Friction Course	Chap 4	
Stabilization Material was depth verified	5.6.1	
Structural Course was correct coefficient used	Table 5.4	
Shoulder Design was layer sequence evaluated	8	
Rehabilitation and Cross Slope Correction		
Field Evaluation (Visual Inspection)	Scope	
Correct Reliability (%R)	Table 5.2	
Existing Coring and Pavement Evaluation Report is it complete	7.4.3	
Traffic Data and ESAL Calculations match TL for Pavement Design	2.2.1	
Structural Course was correct reduction coefficient used	Table 7.1	
Friction Course Material - Correct Friction Course	Chap 4	
Overbuild Recommendations	7.8.2	
FWD Report (Mr)- Correct Value Used	7.3	
Existing Cross Slope Evaluation and Method of Correction	7.5	
Design Calculations		
Existing Sne	7.4	
Required SNr	7.2/5.2	
Calculated SNC	7.6/5.3	
Sketches of Layer Sequence (include existing and shoulders)	Figure 6.1	
Backup Documentation		
Project Location Map	TDH 120.2.7.1	
Traffic Data	TDH 120.2.7.1	
Resilient Modulus (Mr) - FWD or Mr (Lab Test)	TDH 120.2.7.1	
SLD	TDH 120.2.7.1	
Typical Section Package	TDH 120.2.7.1	
Pavement Coring and Evaluation Report	TDH 120.2.7.1	
GPR Data	TDH 120.2.7.1	
Profilograph Cross Slope/Rut Data	TDH 120.2.7.1	
Drainage - Base Clearance Data	TDH 120.2.7.1	
Quality Control Checklist Complete	Appendix B TDH 120.2.7.1	

Florida's Turnpike Enterprise Flexible Pavement Design Checklist

	FPDM	Satisfactory Yes/No/NA
Bridges		
Check for Asphalt Overlay		
Is depth of overlay included in PC & E Report		
Min LA Pavement Design	Table 5.5	
Min SP-Structural 4"		
Min Base 9 (10")		
Min Ramp Pavement Design		
Min SP-Structural 2"		
Min Base 9 (10")		
Min LA Shoulder		
Min SP-Structural 1.5"		
Min Base 1 (4")		
Traffic Level	5.6.5	
< 0.3 TL A		
0.3 to < 3 TL B		
3 to < 10 TL C		
10 to < 30 TL D		
>= 30 TL E		
Spread Rate	4.1	
FC-9.5 110 lb/sqy		
FC-12.5 165 lb/sqy		
FC-5 80 lb/sqy		
Base Clearance	5.2.2	
3' above High Water		
2' above = 25% Mr reduction		
1' above = 50% Mr reduction		
Structural Coefficients (New)	Table 5.4	
FC-5 0.00		
FC-12.5, FC 9.5 .44		
SP 0.44		
Base (Limerock) .18		
Base (Type B-12.5) .30		
Stabilization (Type B) .08		
Layer Thickness		
Fine Mix	5.6.6	
SP-9.5 1" to 1.5"		
SP-12.5 1.5" to 2.5"		
SP 9.5 limited to Top two lifts		
No SP 9.5 in TL-D or TL-E		
Turnpike Specific		
New Construction 95% Reliability	TDH 120.2.7.1	
Rehabilitation 99% Reliability	TDH 120.2.7.1	
Temporary Pavement Designs 80% Min. Reliability	TDH 120.2.7.1	
20 Year Design Life	TDH 120.2.7.1	
Table 5.5 of the Flexible Pavement Design Manual used for minimum thickness on new construction and resurfacing projects	TDH 120.2.7.1	
PG 76-22, in the top structural lift and friction course regardless of traffic level (Travel Lanes Only)	TDH 120.2.7.1	
Coordinate use of FC 12.5 or FC 9.5 with FTE at ramp crossroad termini that show extensive failure of existing friction course	TDH 120.2.7.1	
Traffic Level of Mix not increased in anticipation of optimizing contractor operations	TDH 120.2.7.1	
6" shelf at longitudinal shelf shown in widening projects	TDH 120.2.7.1	
Pavement through tolling gantries meet GTR	TDH 120.2.7.1	

Florida's Turnpike Enterprise Flexible Pavement Design Checklist

				FPDM	Satisfactory Yes/No/NA
Structural Coefficients (Existing)				Table 7.1	
Layer	Good	Fair	Poor		
FC-2 or FC-5	0	0	0		
FC-1 or FC-4	0.17	0.15	0.12		
FC-3	0.2	0.17	0.15		
FC 12.5 or 9.5	0.34	0.25	0.15		
Type S or SP	0.34	0.25	0.15		
Type I	0.3	0.23	0.15		
Type II	0.17	0.15	0.12		
Type III	0.25	0.2	0.15		
Binder	0.25	0.2	0.15		
ABC 1	0.17	0.14	0.1		
ABC 2	0.2	0.16	0.12		
ABC 3	0.25	0.2	0.15		
Type B 12.5	0.25	0.2	0.15		
SAHM	0.13	0.11	0.08		
SBRM	0.13	0.11	0.08		