GTR Section	GTR Title	FDOT Publication	Section/ID	Title	Notes
100	**Introduction**	N/A	Omit	N/A	GTR organization - no longer needed
100.1	Purpose	N/A	Omit	N/A	GTR organization - no longer needed
100.2	Procedure	N/A	Omit	N/A	GTR organization - no longer needed
100.3	Organization	N/A	Omit	N/A	GTR organization - no longer needed
101	**Abbreviations and Glossary of Terms**	**FDM**	**280**	**Tolling Governance and Processes**	
N/A	N/A	FDM	280.1	General	
101.1	Abbreviations	FDM	280.2	Tolling Abbreviations	
N/A	N/A	FDM	280.2.1	Tolling Series Organization	New Section added to clarify new organization
101.2	GTR Definitions	FDM	280.3	Tolling Definitions	
N/A	N/A	FDM	280.4	Toll Coordination Screening	Originated from Turnpikes Checklist. Turnpike requested that this is added to the FDM.
102	**Requirements & Governing Documents**	FDM	280.5	Requirements and Governing Documents	
102.1	General Requirements	FDM	280.5.1	General Requirements	
102.1.1	Plans and Designs	FDM	280.5.1.1	Plans and Designs	
102.2	Responsibilities	FDM	280.5.2	Responsibilities	
102.2.1	Department	FDM	280.5.2.1	Department	
102.2.2	AOR/EOR	FDM	280.5.2.2	AOR/EOR	
102.2.3	TEC	FDM	280.5.2.3	TEC	
110	**GTR Deviations**	N/A	N/A	N/A	
110.1	Introduction	FDM	122.1.5	Toll Site Projects	Merged with existing FDM122
110.2	GTR Deviation Request	FDM	122.1.5.1	Tolling Deviation Requests	Merged with existing FDM122
110.2.1	Supporting Documentation	FDM	122.1.5.2	Supporting Documentation	Merged with existing FDM122
111	**Standard Letters and Templates**	FDM	280.6	Standard Letters and Templates	
120	**Plan Development Process**	FDM	280.7	Plan Development Process	
120.1	Engineering Design Process	FDM	280.7.1	Engineering Design Process	
120.1.1	Initial Engineering Design Process	FDM	280.7.1.1	Initial Engineering Design Process	
120.1.2	Final Engineering Design Process	FDM	280.7.1.2	Final Engineering Design Process	
120.2	Process for Use of RTC Sites	FDM	280.7.2	Process for Use of RTC Sites	
120.3	Toll Site Pre-Design Meeting	FDM	280.7.3	Toll Site Pre-Design Meeting	
200	**Toll Site**	N/A	N/A	N/A	
200.1	Toll Site Categorization	FDM	280.8	Toll Site Categorization	Combined Sections
200.1	Toll Site	FDM	280.8	Toll Site Categorization	Combined Sections
200.1.1	Toll Site Subcomponents	FDM	280.8.1	Toll Site Subcomponents	
200.1.2	Toll Equipment Building	FDM	280.8.2	Toll Equipment Building (TEB)	
200.1.3	Toll Gantry	FDM	280.8.3	Toll Gantry	
201	**Design Criteria**	FDM	280.9	Design Criteria	
201.1	Toll Site Design Requirements	FDM	280.9.1	Toll Site Design Requirements	
201.2	UL Requirements	FDM	280.9.2	UL Requirements	
202	**Toll Siting**	FDM	280.10	Toll Siting	
202.1	Introduction	FDM	280.10.1	Introduction	
202.2	PD&E Toll Siting	FDM	280.10.2	PD&E Toll Siting	
202.3	Toll Siting Technical Memorandum	FDM	280.10.3	Toll Siting Technical Memorandum	
N/A	N/A	FDM	280.11	Special Provisions for Tolling	
210	**Technical Special Provisions**	FDM	280.11.1	Technical Special Provisions (TSPs)	
210.1	General Requirements	FDM	280.11.1.1	General Requirements	
210.2	Development of AASHTO Formatted Technical Special Provisions for All Toll Sites	FDM	280.11.1.2	Development of AASHTO Formatted TSPs for All Toll Sites	
210.3	TSP Sections Development for TEB Sites	FDM	280.11.1.3	TSP Sections Development for TEB Sites	
210.4	Technical Special Provisions for Roadside Tolling Cabinet Sites	FDM	280.11.1.4	TSPs for Roadside Tolling Cabinet Sites	
211	**Modified Special Provisions**	FDM	280.11.2	Modified Special Provisions (MSPs)	
211.1	Modified Special Provisions for Toll Site Construction	FDM	280.11.2.1	MSPs for Toll Site Construction	
211.2	Modified Special Provisions for Projects with Toll Sites within Project Limits	FDM	280.11.2.2	MSPs for Projects with Toll Sites within Project Limits	
220	**Toll Site Roadway**	**FDM**	**281**	**Toll Site Roadway**	

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N/A	N/A	FDM	281.1	Roadway Layout	
220.1	General Requirements	FDM	281.1.1	General Requirements	
220.2	Roadway Requirements for Toll Sites	FDM	281.1.2	Roadway Requirements for Toll Sites	
Ex. 220.2-1	Toll Loop Pavement Area Separation Layouts	FDM	Ex. 281-1	Toll Loop Pavement Area Separation Layouts	
220.3	Existing Toll Site Requirements	FDM	281.1.3	Existing Toll Site Requirements	
221	**Toll Site Pavement Design**	N/A	N/A	N/A	
221.1	Toll Loop Pavement Area Dimensions	FDM	281.2	Toll Loop Pavement Area Dimensions	
221.1.1	Pavement Length	FDM	281.2.1	Pavement Length	
221.1.2	Pavement Width	FDM	281.2.2	Pavement Width	
221.1.3	Pavement Depth	FDM	281.2.3	Pavement Thickness	Non-duplicative content Relocated to Flexible Pavement Design Manual
221.2	Flexible Pavement Design	Flexible PDM	Various	N/A	Non-duplicative content Relocated to Flexible Pavement Design Manual
221.2.1	Mainline Travel Lanes	Flexible PDM	Various	N/A	Non-duplicative content Relocated to Flexible Pavement Design Manual
221.2.2	Ramp Travel Lanes	Flexible PDM	Various	N/A	Non-duplicative content Relocated to Flexible Pavement Design Manual
221.3	Resurfacing, Restoration and Rehabilitation for Existing Flexible Pavement Toll Sites	Flexible PDM	Various	N/A	Non-duplicative content Relocated to Flexible Pavement Design Manual
221.4	Rigid Pavement Design	Rigid PDM	Various	N/A	Non-duplicative content Relocated to Flexible Pavement Design Manual
221.5	Toll Loop Pavement Area Restrictions	FDM	281.2.4	Toll Loop Pavement Area Restrictions	
221.6	Shoulders Approaching and Departing the Toll Loop Pavement Area	N/A	N/A	N/A	
221.6.1	Grading and Drainage	FDM	281.2.5	Grading and Drainage of Shoulders	
221.6.2	Single Lane Ramps	N/A	Omit	N/A	Deleted and added concept to FDM 282.2.2
Ex. 221.6-1	Approach and Departure Shoulder Transition Drainage Concerns	FDM	Ex. 281-2	Approach and Departure Shoulder Transition Drainage Concerns	
222	**Toll Site Signs and Pavement Markings**	FDM	230.2.8	Toll Site Signs	
222.1	Signs at the Toll Site	N/A	Omit	N/A	
222.2	Sign TOL-7 "Do Not Stop"	FDM	230.2.8.1	Sign TOL-7 "Do Not Stop"	Sign Designations have changed.
222.3	Sing TOL-8 "Authorized Vehicles Only"	FDM	230.2.8.2	Sing TOL-8 "Authorized Vehicles Only"	Sign Designations have changed.
222.4	Pavement Markings at the Toll Site	FDM	230.3	Pavement Markings	
223	**Toll Site Construction Phasing Requirements**	FDM	281.4	Toll Site Construction Phasing Requirements	
223.1	General Requirements	FDM	281.4.1	General Requirements	
223.2	Maintenance of Traffic (MOT)	FDM	281.4.2	Temporary Traffic Control (TTC)	
223.3	Toll Site Temporary Traffic Control	FDM	281.4.3	Toll Site Temporary Traffic Control	
223.3.1	Temporary Traffic Control Plan (TTCP)	FDM	281.4.3.1	Temporary Traffic Control Plan (TTCP)	
223.3.2	Tolling Sub-Phase Requirements	FDM	281.4.3.2	Tolling Sub-Phase Requirements	
223.3.3	AET Toll Sites in Production	FDM	281.4.3.3	AET Toll Sites in Production	
223.4	Existing Toll Site Traffic Control	FDM	281.4.4	Existing Toll Site Traffic Control	
223.4.1	General Requirements	FDM	281.4.4.1	General Requirements	
223.4.2	Non-AET Facilities	FDM	281.4.4.2	Non-AET Facilities	
N/A	N/A	**FDM**	**282**	**Toll Site Design and Layout**	
230	**Toll Site Design**	FDM	282.1	Toll Site Design	
230.1	General Requirements	FDM	282.1.1	General Requirements	
230.2	Infrastructure Placement	FDM	282.1.2	Infrastructure Placement	
230.3	High Voltage Circuits	FDM	282.1.3	High Voltage Circuits	
230.4	Wireless Communication Devices	FDM	282.1.4	Wireless Communication Devices	
230.5	Existing Toll Sites	FDM	282.1.5	Existing Toll Sites	
230.5.1	General Requirements	FDM	282.1.5.1	General Requirements	

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230.5.2	Building Demolition Plans and Permits	FDM	282.1.5.2	Building Demolition Plans and Permits	
230.5.3	Salvage and Disposal	FDM	282.1.5.3	Salvage and Disposal	
230.5.4	Proposed Infrastructure with Potential Frequency Interference Near Existing Toll Sites	FDM	282.1.5.4	Proposed Infrastructure with Potential Frequency Interference Near Existing Toll Sites	
231	**Toll Site Layout**	FDM	282.2	**Toll Site Layout**	
231.1	General Requirements	FDM	282.2.1	General Requirements	
Ex. 231.1-1	Non-Accessible Gantry TEB Standard Site Plan	FDM	Ex. 282-1	Non-Accessible Gantry TEB Standard Site Plan	
Ex. 231.1-2	Accessible Gantry TEB Standard Site Plan	FDM	Ex. 282-2	Accessible Gantry TEB Standard Site Plan	
Ex. 231.1-3	Non-Accessible Gantry TEB Detached Site Plan	FDM	Ex. 282-3	Non-Accessible Gantry TEB Detached Site Plan	
Ex. 231.1-4	Accessible Gantry TEB Detached Site Plan	FDM	Ex. 282-4	Accessible Gantry TEB Detached Site Plan	
Ex. 231.1-5	Single Movement Gantry RTC Standard Site Plan -- On-Site Power Service	FDM	Ex. 282-5	Single Movement Gantry RTC Standard Site Plan -- On-Site Power Service	
Ex. 231.1-6	Single Movement Gantry RTC Standard Site Plan -- Off-Site Power Service	FDM	Ex. 282-6	Single Movement Gantry RTC Standard Site Plan -- Off-Site Power Service	
Ex. 231.1-7	Dual Movement RTC Detached Site Plan	FDM	Ex. 282-7	Dual Movement RTC Detached Site Plan	
Ex. 231.1-8	Single Movement RTC Remote Site Plan -- On-Site Power Service	FDM	Ex. 282-8	Single Movement RTC Remote Site Plan -- On-Site Power Service	
Ex. 231.1-9	Single Movement RTC Remote Site Plan -- On-Site Power Service	FDM	Ex. 282-9	Single Movement RTC Remote Site Plan -- On-Site Power Service	
Ex. 231.1-10	Dual Movement RTC Remote Site Plans	FDM	Ex. 282-10	Dual Movement RTC Remote Site Plans	
Ex. 231.1-11	RTC Condensate Piping Plans and Details	FDM	Ex. 282-11	RTC Condensate Piping Plans and Details	
Ex. 231.1-12	Single Movement TEB and RTC Remote Site Plan(s)	FDM	Ex. 282-12	Single Movement TEB and RTC Remote Site Plan(s)	
Ex. 231.1-13	TEB and RTC Ground-Mounted Strut Channel Frame Layouts	FDM	Ex. 282-13	TEB and RTC Ground-Mounted Strut Channel Frame Layouts	
231.2	**Maintenance Access**	FDM	282.2.2	Maintenance Access	
231.2.1	Maintenance Pull-Off Area	FDM	282.2.2.1	Maintenance Pull-Off Area	
231.2.2	Barrier Access	FDM	282.2.2.2	Barrier Access	
Ex. 231.2-1	Toll Site Barrier Access (1 of 2)	FDM	Ex. 282-14	Toll Site Barrier Access (1 of 2)	
Ex. 231.2-2	Toll Site Barrier Access (2 of 2)	FDM	Ex. 282-15	Toll Site Barrier Access (2 of 2)	
231.3	Sidewalks	FDM	282.2.3	Sidewalks	
231.4	Pipe Bollards	FDM	282.2.4	Pipe Bollards	
Ex. 231.4-1	Removable Pipe Bollards in Asphalt	FDM	Ex. 282-16	Removable Pipe Bollards in Asphalt	
Ex. 231.4-2	Removable Pipe Bollards in Gravel	FDM	Ex. 282-17	Removable Pipe Bollards in Gravel	
Ex. 231.4-3	Permanent Pipe Bollards	FDM	Ex. 282-18	Permanent Pipe Bollards	
231.5	Toll Site Equipment Slabs and Toll Equipment Building Foundations	FDM	282.2.5	Toll Site Equipment Slabs and Toll Equipment Building Foundations	
Ex. 231.5-1	Fuel Tank Hold-Down Details	FDM	Ex. 282-19	Fuel Tank Hold-Down Details	
231.6	Toll Site Grading	FDM	282.2.6	Toll Site Grading	
231.7	Fencing for Toll Sites	FDM	282.2.7	Fencing for Toll Sites	
232	**Toll Site Electrical**	FDM	282.3	Toll Site Electrical	
232.1	Toll Site Electrical Layout	FDM	282.3.1	Toll Site Electrical Layout	
Ex. 232.1-1	Single Movement Non-Accessible Gantry TEB Electrical Standard Site Plan	FDM	Ex. 282-20	Single Movement Non-Accessible Gantry TEB Electrical Standard Site Plan	
Ex. 232.1-2	Duel Movement Non-Accessible Gantry TEB Electrical Standard Site Plan	FDM	Ex. 282-21	Duel Movement Non-Accessible Gantry TEB Electrical Standard Site Plan	

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Ex. 232.1-3	Duel Movement Accessible Gantry TEB Electrical Standard Site Plan	FDM	Ex. 282-22	Duel Movement Accessible Gantry TEB Electrical Standard Site Plan	
Ex. 232.1-4	Duel Movement TEB Electrical Remote Site Plan	FDM	Ex. 282-23	Duel Movement TEB Electrical Remote Site Plan	
Ex. 232.1-5	Single Movement RTC Electrical Standard Site Plan - Off-Site Power Service	FDM	Ex. 282-24	Single Movement RTC Electrical Standard Site Plan - Off-Site Power Service	
Ex. 232.1-6	Single Movement RTC Electrical Standard Site Plan - On-Site Power Service	FDM	Ex. 282-25	Single Movement RTC Electrical Standard Site Plan - On-Site Power Service	
Ex. 232.1-7	Dual Movement RTC Electrical Detached Site Plan - On-Site Power Service	FDM	Ex. 282-26	Dual Movement RTC Electrical Detached Site Plan - On-Site Power Service	
Ex. 232.1-8	Single Movement RTC Electrical Remote Site Plan - On-Site Power Service	FDM	Ex. 282-27	Single Movement RTC Electrical Remote Site Plan - On-Site Power Service	
Ex. 232.1-9	Single Movement RTC Electrical Remote Site Plan - Off-Site Power Service	FDM	Ex. 282-28	Single Movement RTC Electrical Remote Site Plan - Off-Site Power Service	
Ex. 232.1-10	Dual Movement RTC Electrical Remote Site Plans	FDM	Ex. 282-29	Dual Movement RTC Electrical Remote Site Plans	
Ex. 232.1-11	RTC Generator and Working Space Detail	FDM	Ex. 282-30	RTC Generator and Working Space Detail	
Ex. 232.1-12	Single Movement TEB and RTC Electrical Remote Site Plan (1 of 2)	FDM	Ex. 282-31	Single Movement TEB and RTC Electrical Remote Site Plan (1 of 2)	
Ex. 232.1-13	Single Movement TEB and RTC Electrical Remote Site Plan (2 of 2)	FDM	Ex. 282-32	Single Movement TEB and RTC Electrical Remote Site Plan (2 of 2)	
Ex. 232.1-14	TEB Standard Loop Conduit Routing Plans	FDM	Ex. 282-33	TEB Standard Loop Conduit Routing Plans	
232.2	Toll Site Power Utilities	FDM	282.3.2	Toll Site Power Utilities	
232.3	Toll Loop Infrastructure	FDM	282.3.3	Toll Loop Infrastructure	
232.3.1	Toll Loop Conduits	FDM	282.3.3.1	Toll Loop Conduits	
232.3.2	Toll Loop Pull boxes	FDM	282.3.3.2	Toll Loop Pull boxes	
232.3.3	Toll Loop Home Runs	FDM	282.3.3.3	Toll Loop Home Runs	
Ex. 232.3-1	Toll Loop Pull Box Details for Rigid Pavement	FDM	Ex. 282-34	Toll Loop Pull Box Details for Rigid Pavement	
Ex. 232.3-2	Toll Loop Pull Box Details for Flexible Pavement	FDM	Ex. 282-35	Toll Loop Pull Box Details for Flexible Pavement	
Ex. 232.3-3	Elevated Toll Loop Pull Box Details for Rigid Pavement	FDM	Ex. 282-36	Elevated Toll Loop Pull Box Details for Rigid Pavement	
Ex. 232.3-4	Elevated Toll Loop Pull Box Details for Flexible Pavement	FDM	Ex. 282-37	Elevated Toll Loop Pull Box Details for Flexible Pavement	
232.4	Toll Site Power Distribution	FDM	282.3.4	Toll Site Power Distribution	
232.4.1	Circuits from Roadside Tolling Cabinet On-Site Power Panel EDP	FDM	282.3.4.1	Circuits from Roadside Tolling Cabinet On-Site Power Panel EDP	
232.4.2	Circuits from Roadside Tolling Cabinet Off-Site Power Panel EP1	FDM	282.3.4.2	Circuits from Roadside Tolling Cabinet Off-Site Power Panel EP1	
232.4.3	Circuits from OCC	FDM	282.3.4.3	Circuits from OCC	
Ex. 232.4-1	RTC Power Riser Diagram	FDM	Ex. 282-38	RTC Power Riser Diagram	
232.5	Electrical Equipment Frame Layout	FDM	282.3.5	Electrical Equipment Frame Layout	
232.5.1	Equipment Mounted to AVI Reader Ground-Mounted Frame	FDM	282.3.5.1	Equipment Mounted to AVI Reader Ground-Mounted Frame	
232.5.2	Roadside Tolling Cabinet Equipment Mounted to Power Distribution Frames	FDM	282.3.5.2	Roadside Tolling Cabinet Equipment Mounted to Power Distribution Frames	
Ex. 232.5-1	RTC Power Distribution Frame Layouts	FDM	Ex. 282-39	RTC Power Distribution Frame Layouts	

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Ex. 232.5-2	AVI Reader Ground-Mounted Frame Layouts	FDM	Ex. 282-40	AVI Reader Ground-Mounted Frame Layouts	
232.6	Lighting at Toll Sites	FDM	282.3.6	Lighting at Toll Sites	
232.7	Generators, Fuel Tanks, and Automatic Transfer Switches	FDM	282.3.7	Generators, Fuel Tanks, and Automatic Transfer Switches	
232.8	Surge Protection Devices (SPDs)	FDM	282.3.8	Surge Protection Devices (SPDs)	
232.9	Toll Site Security	FDM	282.3.9	Toll Site Security	
232.9.1	Closed Circuit Television (CCTV) System	FDM	282.3.9.1	Closed Circuit Television (CCTV) System	
232.9.2	Site Access Control	FDM	282.3.9.2	Site Access Control	
Ex. 232.9-1	CCTV Camera Site Locations for TEB Sites	FDM	Ex. 282-41	CCTV Camera Site Locations for TEB Sites	
Ex. 232.9-2	CCTV Camera Site Locations for RTC Sites	FDM	Ex. 282-42	CCTV Camera Site Locations for RTC Sites	
232.10	Toll Site Supervisory Control and Data Acquisition (SCADA) Systems	FDM	282.3.10	Toll Site Supervisory Control and Data Acquisition (SCADA) Systems	
Ex. 232.10-1	RTC SCADA Riser Diagram (1 of 3)	FDM	Ex. 282-43	RTC SCADA Riser Diagram (1 of 3)	
Ex. 232.10-2	RTC SCADA Riser Diagram (2 of 3)	FDM	Ex. 282-44	RTC SCADA Riser Diagram (2 of 3)	
Ex. 232.10-3	RTC SCADA Riser Diagram (3 of 3)	FDM	Ex. 282-45	RTC SCADA Riser Diagram (3 of 3)	
232.11	Electrical Infrastructure for Roadside Tolling Cabinet Sites	FDM	282.3.11	Electrical Infrastructure for Roadside Tolling Cabinet Sites	
232.12	Department Provided Infrastructure for Roadside Tolling Cabinet Sites	FDM	282.3.12	Department Provided Infrastructure for Roadside Tolling Cabinet Sites	
232.12.1	Equipment	FDM	282.3.12.1	Equipment	
232.12.2	Conductor and Cable Terminators	FDM	282.3.12.2	Conductor and Cable Terminators	
233	**Toll Site Lightning Protection**	FDM	282.4	Toll Site Lightning Protection	
233.1	Lightning Protection for Site Infrastructure	FDM	282.4.1	Lightning Protection for Site Infrastructure	
233.2	Lightning Protection Separation Distances	FDM	282.4.2	Lightning Protection Separation Distances	
234	**Cable Distance Limitations**	FDM	282.5	Cable Distance Limitations	
234.1	Definitions and Measurement	FDM	282.5.1	Definitions and Measurement	
234.2	Boosters and Amplifiers	FDM	282.5.2	Boosters and Amplifiers	
234.3	Cable Distance Limitations	FDM	282.5.3	Cable Distance Limitations	
Ex. 234.3-1	Calculated Cable Distances	FDM	Ex. 282-46	Calculated Cable Distances	
N/A	N/A	**FDM**	**283**	**Toll Equipment Buildings**	
240	**Toll Equipment Building Design**	FDM	283.1	Toll Equipment Building Design	
240.1	General Requirements	FDM	283.1.1	General Requirements	
241	**Toll Equipment Building Architectural**	FDM	283.2	Toll Equipment Building Architectural	
241.1	General Requirements	FDM	283.2.1	General Requirements	
241.2	Toll Equipment Building Structural Design	FDM	283.2.2	Toll Equipment Building Structural Design	
241.2.2	Hurricane Wind Requirements	FDM	283.2.2.1	Hurricane Wind Requirements	
241.2.3	Live Load	FDM	283.2.2.2	Live Load	
241.3	Foundation Slab	FDM	283.2.3	Foundation Slab	
241.4	Toll Equipment Building Roof	FDM	283.2.4	Toll Equipment Building Roof	
Ex. 241.4-1	TEB Wall Sections	FDM	Ex. 283-1	TEB Wall Sections	
241.5	Exterior Equipment	FDM	283.2.5	Exterior Equipment	
241.6	Pre-Engineered Precast Concrete Toll Equipment Buildings	FDM	283.2.6	Pre-Engineered Precast Concrete Toll Equipment Buildings	
Ex. 241.6-1	TEB Foundation	FDM	Ex. 283-2	TEB Foundation	
Ex. 241.6-2	TEB Exterior Elevations	FDM	Ex. 283-3	TEB Exterior Elevations	
Ex. 241.6-3	TEB Reveal Details	FDM	Ex. 283-4	TEB Reveal Details	
Ex. 241.6-4	TEB Door Details	FDM	Ex. 283-5	TEB Door Details	
241.7	**Equipment Support Frames**	FDM	283.2.7	Equipment Support Frames	
241.7.1	Toll Equipment Support Frame	FDM	283.2.7.1	Toll Equipment Support Frame	
241.7.2	Condensing Units Support Frame	FDM	283.2.7.2	Condensing Units Support Frame	
Ex. 241.7-1	Toll Equipment Support Frame	FDM	Ex. 283-6	Toll Equipment Support Frame	
Ex. 241.7-2	Condensing Units Support Frame	FDM	Ex. 283-7	Condensing Units Support Frame	

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242	**Toll Equipment Building Electrical**	FDM	283.3	Toll Equipment Building Electrical	
242.1	General Requirements	FDM	283.3.1	General Requirements	
Ex. 242.1-1	TEB Power Riser Diagram	FDM	Ex. 283-8	TEB Power Riser Diagram	
Ex. 242.1-2	TEB Electrical Layout	FDM	Ex. 283-9	TEB Electrical Layout	
Ex. 242.1-3	Interior Electrical Elevations (1 of 4)	FDM	Ex. 283-10	Interior Electrical Elevations (1 of 4)	
Ex. 242.1-4	Interior Electrical Elevations (2 of 4)	FDM	Ex. 283-11	Interior Electrical Elevations (2 of 4)	
Ex. 242.1-5	Interior Electrical Elevations (3 of 4)	FDM	Ex. 283-12	Interior Electrical Elevations (3 of 4)	
Ex. 242.1-6	Interior Electrical Elevations (4 of 4)	FDM	Ex. 283-13	Interior Electrical Elevations (4 of 4)	
Ex. 242.1-7	Wall Mounted Wiring Device Details	FDM	Ex. 283-14	Wall Mounted Wiring Device Details	
242.2	Toll Equipment Building Lighting	FDM	283.3.2	Toll Equipment Building Lighting	
Ex. 242.2-1	TEB Lighting	FDM	Ex. 283-15	TEB Lighting	
242.3	Critical Power Receptacles	FDM	283.3.3	Critical Power Receptacles	
Ex. 242.3-1	Receptacles Over Tolling Equipment	FDM	Ex. 283-16	Receptacles Over Tolling Equipment	
242.4	Electrical Power Panels	FDM	283.3.4	Electrical Power Panels	
242.5	Critical Power Panels	FDM	283.3.5	Critical Power Panels	
242.6	SCADA Systems	FDM	283.3.6	SCADA Systems	
Ex. 242.6-1	SCADA Riser Diagram (1 of 2)	FDM	Ex. 283-17	SCADA Riser Diagram (1 of 2)	
Ex. 242.6-2	SCADA Riser Diagram (2 of 2)	FDM	Ex. 283-18	SCADA Riser Diagram (2 of 2)	
Ex. 242.6-3	TEB SCADA and Security System Plan	FDM	Ex. 283-19	TEB SCADA and Security System Plan	
242.7	UPS	FDM	283.3.7	Uninterruptible Power Supply (UPS)	
242.8	UPS Maintenance By-pass Switches (BPS)	FDM	283.3.8	UPS Maintenance By-pass Switches (BPS)	
Ex. 242.8-1	UPS and BPS Riser Diagram (1 of 2)	FDM	Ex. 283-20	UPS and BPS Riser Diagram (1 of 2)	
Ex. 242.8-2	UPS and BPS Riser Diagram (2 of 2)	FDM	Ex. 283-21	UPS and BPS Riser Diagram (2 of 2)	
242.9	Cable Trays	FDM	283.3.9	Cable Trays	
242.10	Surge Protection Devices (SPDs)	FDM	283.3.10	Surge Protection Devices (SPDs)	
242.11	Emergency Power Off (EPO) Stations	FDM	283.3.11	Emergency Power Off (EPO) Stations	
Ex. 242.11-1	EPO Riser and Wiring Diagram	FDM	Ex. 283-22	EPO Riser and Wiring Diagram	
242.12	Access Control System	FDM	283.3.12	Access Control System	
Ex. 242.12-1	Access Control Details	FDM	Ex. 283-23	Access Control Details	
242.13	Grounding and Bonding	FDM	283.3.13	Grounding and Bonding	
Ex. 242.13-1	TEB Grounding Details	FDM	Ex. 283-24	TEB Grounding Details	
Ex. 242.13-2	Grounding Details	FDM	Ex. 283-25	Grounding Details	
242.14	Electrical Raceways from Site to New TEBs	FDM	283.3.14	Electrical Raceways from Site to New TEBs	
Ex. 242.14-1	Working Space Conduit Stub-up	FDM	Ex. 283-26	Working Space Conduit Stub-up	
242.15	Electrical Raceways from Site to Existing TEBs	FDM	283.3.15	Electrical Raceways from Site to Existing TEBs	
243	**Toll Equipment Building Lightning Protection**	FDM	283.4	Toll Equipment Building Lightning Protection	
243.1	General Requirements	FDM	283.4.1	General Requirements	
Ex. 243.1-1	Down Conductor Conduit	FDM	Ex. 283-27	Down Conductor Conduit	
Ex. 243.1-2	TEB Lightning Protection Plan	FDM	Ex. 283-28	TEB Lightning Protection Plan	
244	**Toll Equipment Building Mechanical**	FDM	283.5	Toll Equipment Building Mechanical	
244.1	General Requirements	FDM	283.5.1	General Requirements	
244.2	Air Conditioning (AC) System	FDM	283.5.2	Air Conditioning (AC) System	
Ex. 244.2-1	AC Infrastructure	FDM	Ex. 283-29	AC Infrastructure	
244.3	Condensate Piping and Dry Well	FDM	283.5.3	Condensate Piping and Dry Well	
Ex. 244.3-1	Dry Well and AC Condensate Piping Details	FDM	Ex. 283-30	Dry Well and AC Condensate Piping Details	
244.4	Fuel Storage Tanks, and Fuel Oil Piping	FDM	283.5.4	Fuel Storage Tanks and Fuel Oil Piping	
Ex. 244.4-1	Generator Fuel Tank Piping	FDM	Ex. 283-31	Generator Fuel Tank Piping	
Ex. 244.4-2	Fuel Tank Details	FDM	Ex. 283-32	Fuel Tank Details	
250	**Toll Gantries**	**FDM**	**284**	**Toll Gantries**	
250.1	Gantry Types	FDM	284.1	Gantry Types	
Ex. 250.1-1	Non-Accessible Gantry Elements	FDM	Ex. 284-1	Non-Accessible Gantry Elements	

GTR Section	GTR Title	FDOT Publication	Section/ID	Title	Notes
Ex. 250.1-2	Accessible Gantry Elements	FDM	Ex. 284-2	Accessible Gantry Elements	
Ex. 250.1-3	Accessible Gantry Swing Gate and Grating	FDM	Ex. 284-3	Accessible Gantry Swing Gate and Grating	
Ex. 250.1-4	Accessible Gantry Stair Platform Landing	FDM	Ex. 284-4	Accessible Gantry Stair Platform Landing	
Ex. 250.1-5	Accessible Gantry J-Arm Retraction Assembly	FDM	Ex. 284-5	Accessible Gantry J-Arm Retraction Assembly	
Ex. 250.1-6	Accessible Gantry Gear Box and Mounting	FDM	Ex. 284-6	Accessible Gantry Gear Box and Mounting	
Ex. 250.1-7	Accessible Gantry Access Stair Structure	FDM	Ex. 284-7	Accessible Gantry Access Stair Structure	
Ex. 250.1-8	Accessible Gantry Swing Gate Post	FDM	Ex. 284-8	Accessible Gantry Swing Gate Post	
250.2	Gantry Design Criteria based on Toll Equipment Requirements	FDM	284.1.1	Gantry Design Criteria based on Toll Equipment Requirements	
Ex. 250.2-1	TransCore Gantry Toll Equipment Layout	FDM	Ex. 284-9	TransCore Gantry Toll Equipment Layout	
Ex. 250.2-2	Conduent Gantry Toll Equipment Layout	FDM	Ex. 284-10	Conduent Gantry Toll Equipment Layout	
Ex. 250.2-3	Toll Equipment Loads	FDM	Ex. 284-11	Toll Equipment Loads	
250.2.1	J-arm Positioning on the Gantry	FDM	284.1.1.1	J-arm Positioning on the Gantry	
250.2.2	Vertical Clearance	FDM	284.1.1.2	Vertical Clearance	
250.2.3	Toll Equipment Operation and Maintenance	FDM	284.1.1.3	Toll Equipment Operation and Maintenance	
251	**Toll Gantry Structural**	FDM	284.2	Toll Gantry Structural	Reference to the Structures Manual, Volume 3, Chapter 19. This Section is mainly here to reference the Exhibits associated with the Structures Manual that will relocated in the future.
		Structures Manual, Volume 3 (SM, V3)	**19**	**Toll Gantry Structural**	All content except Exhibits has been relocated to this chapter.
Ex. 251.4-1	Non-Accessible Gantry Typical Section	FDM	Ex. 284-12	Non-Accessible Gantry Typical Section	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.4-2	Cantilever Plan and Upright Structural Details for Conduit Support	FDM	Ex. 284-13	Cantilever Plan and Upright Structural Details for Conduit Support	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.4-3	Span Upright Structural Details for Conduit Support	FDM	Ex. 284-14	Span Upright Structural Details for Conduit Support	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.5-1	Table of Structure Variables	FDM	Ex. 284-15	Table of Structure Variables	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.5-2	Non Accessible Gantry Bent Plate Detail	FDM	Ex. 284-16	Non Accessible Gantry Bent Plate Detail	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.5-3	Cantilever Median Upright Structural Details for Conduit Support	FDM	Ex. 284-17	Cantilever Median Upright Structural Details for Conduit Support	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-1	Accessible Gantry Typical Section	FDM	Ex. 284-18	Accessible Gantry Typical Section	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-2	Accessible Gantry Deck and Access Stairway	FDM	Ex. 284-19	Accessible Gantry Deck and Access Stairway	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-3	Truss Connection Details (1 of 2)	FDM	Ex. 284-20	Truss Connection Details (1 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-4	Truss Connection Details (2 of 2)	FDM	Ex. 284-21	Truss Connection Details (2 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-5	Lower Chord Connection	FDM	Ex. 284-22	Lower Chord Connection	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-6	Upper Chord Connection	FDM	Ex. 284-23	Upper Chord Connection	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-7	Upright Structural Details for Wireway Support	FDM	Ex. 284-24	Upright Structural Details for Wireway Support	Referenced from Structures Manual, Volume 3, Chapter 19

GTR Section	GTR Title	FDOT Publication	Section/ID	Title	Notes
Ex. 251.7-8	Lower Grating Detail	FDM	Ex. 284-25	Lower Grating Detail	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-9	Upper Grating Detail	FDM	Ex. 284-26	Upper Grating Detail	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-10	Stair and Platforms	FDM	Ex. 284-27	Stair and Platforms	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-11	Stair Column Details	FDM	Ex. 284-28	Stair Column Details	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-12	Platform Details	FDM	Ex. 284-29	Platform Details	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-13	Upper Stair Landing Detail	FDM	Ex. 284-30	Upper Stair Landing Detail	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-14	Swing Gate (1 of 2)	FDM	Ex. 284-31	Swing Gate (1 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-15	Swing Gate (2 of 2)	FDM	Ex. 284-32	Swing Gate (2 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-16	Swing Gate Latch (1 of 2)	FDM	Ex. 284-33	Swing Gate Latch (1 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-17	Swing Gate Latch (2 of 2)	FDM	Ex. 284-34	Swing Gate Latch (2 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-18	Upper Platform End Panels	FDM	Ex. 284-35	Upper Platform End Panels	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-19	Upper Platform Panels	FDM	Ex. 284-36	Upper Platform Panels	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-20	Fall Restraint System Details	FDM	Ex. 284-37	Fall Restraint System Details	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-21	Reinforced Opening in Channels for Cable Tray Pass Thru	FDM	Ex. 284-38	Reinforced Opening in Channels for Cable Tray Pass Thru	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 251.7-22	Camber Splice Details	FDM	Ex. 284-39	Camber Splice Details	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 252.1-1	J-Arm Detail	FDM	Ex. 284-40	J-Arm Detail	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 252.1-2	J-Arm Attachment Hardware	FDM	Ex. 284-41	J-Arm Attachment Hardware	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 252.1-3	Toll Equipment Adjustability (1 of 2)	FDM	Ex. 284-42	Toll Equipment Adjustability (1 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 252.1-4	Toll Equipment Adjustability (2 of 2)	FDM	Ex. 284-43	Toll Equipment Adjustability (2 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 253.2-1	Horizontal Support Pipe Attachment Hardware (1 of 3)	FDM	Ex. 284-44	Horizontal Support Pipe Attachment Hardware (1 of 3)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 253.2-2	Horizontal Support Pipe Attachment Hardware (2 of 3)	FDM	Ex. 284-45	Horizontal Support Pipe Attachment Hardware (2 of 3)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 253.2-3	Horizontal Support Pipe Attachment Hardware (3 of 3)	FDM	Ex. 284-46	Horizontal Support Pipe Attachment Hardware (3 of 3)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-1	Equipment Retraction Assembly Rotation (1 of 4)	FDM	Ex. 284-47	Equipment Retraction Assembly Rotation (1 of 4)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-2	Equipment Retraction Assembly Rotation (2 of 4)	FDM	Ex. 284-48	Equipment Retraction Assembly Rotation (2 of 4)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-3	Equipment Retraction Assembly Rotation (3 of 4)	FDM	Ex. 284-49	Equipment Retraction Assembly Rotation (3 of 4)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-4	Equipment Retraction Assembly Rotation (4 of 4)	FDM	Ex. 284-50	Equipment Retraction Assembly Rotation (4 of 4)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-5	Equipment Retraction Support Arm (1 of 2)	FDM	Ex. 284-51	Equipment Retraction Support Arm (1 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-6	Equipment Retraction Support Arm (2 of 2)	FDM	Ex. 284-52	Equipment Retraction Support Arm (2 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-7	Equipment Retraction Assembly Details (1 of 2)	FDM	Ex. 284-53	Equipment Retraction Assembly Details (1 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-8	Equipment Retraction Assembly Details (2 of 2)	FDM	Ex. 284-54	Equipment Retraction Assembly Details (2 of 2)	Referenced from Structures Manual, Volume 3, Chapter 19

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Ex. 254.2-9	Latch Bar Assembly	FDM	Ex. 284-55	Latch Bar Assembly	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.2-10	Stop Plate Types and Details	FDM	Ex. 284-56	Stop Plate Types and Details	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.3-1	Gear Box Details (1 of 3)	FDM	Ex. 284-57	Gear Box Details (1 of 3)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.3-2	Gear Box Details (2 of 3)	FDM	Ex. 284-58	Gear Box Details (2 of 3)	Referenced from Structures Manual, Volume 3, Chapter 19
Ex. 254.3-3	Gear Box Details (3 of 3)	FDM	Ex. 284-59	Gear Box Details (3 of 3)	Referenced from Structures Manual, Volume 3, Chapter 19
251.1	General Structural Requirements	SM, V3	19.1	General Structural Requirements	
251.2	Gantry Superstructure	SM, V3	19.1.1	Gantry Superstructure	
251.3	Minimum Material Requirements	SM, V3	19.1.2	Minimum Material Requirements	
251.3.1	Steel	SM, V3	19.1.2.1	Steel	
251.3.2	Aluminum	SM, V3	19.1.2.2	Aluminum	
251.3.3	Stainless Steel	SM, V3	19.1.2.3	Stainless Steel	
251.4	Non-Accessible Gantries	SM, V3	19.1.3	Non-Accessible Gantries	
251.5	Non-Accessible Cantilever Gantry Structural Requirements	SM, V3	19.1.3.1	Non-Accessible Cantilever Gantry Structural Requirements	
251.6	Non-Accessible Span Gantry Structural Requirements	SM, V3	19.1.3.2	Non-Accessible Span Gantry Structural Requirements	
251.7	Accessible Span Gantry Structural Requirements	SM, V3	19.1.4	Accessible Span Gantry Structural Requirements	
251.8	Foundation Systems	SM, V3	19.1.5	Foundation Systems	
251.8.2	Foundation Length	SM, V3	19.1.5.1	Foundation Length	
252	**Toll Equipment J-Arms**	SM, V3	19.2	Toll Equipment J-Arms	
252.1	General Requirements	SM, V3	19.2.1	General Requirements	
252.1.1	J-Arm Attachment Hardware	SM, V3	19.2.2	J-Arm Attachment Hardware	
252.1.2	J-Arm Point of Attachment	SM, V3	19.2.3	J-Arm Point of Attachment	
253	**Horizontal Support Pipes for Non-Accessible Gantries**	SM, V3	19.3	Horizontal Support Pipes for Non-Accessible Gantries	
253.1	General Requirements	SM, V3	19.3.1	General Requirements	
253.2	Horizontal Support Pipes	SM, V3	19.3.2	Horizontal Support Pipes	
254	**Equipment Retraction Assembly for Accessible Gantries**	SM, V3	19.4	Equipment Retraction Assembly for Accessible Gantries	
254.1	General	SM, V3	19.4.1	General	
254.2	Support Arm Assembly	SM, V3	19.4.2	Support Arm Assembly	
254.3	Gear Boxes	SM, V3	19.4.3	Gear Boxes	
254.4	Gear Box Attachment System	SM, V3	19.4.3.1	Gear Box Attachment System	
255	**Gantry Electrical**	FDM	284.3	Gantry Electrical	
255.1	General Requirements	FDM	284.3.1	General Requirements	
255.2	Cable Tray	FDM	284.3.2	Cable Tray	
255.3	Wire Troughs	FDM	284.3.3	Wire Troughs	
255.3.1	Toll Equipment Building Sites	FDM	284.3.3.1	Toll Equipment Building Sites	
255.3.2	Roadside Tolling Cabinet Sites	FDM	284.3.3.2	Roadside Tolling Cabinet Sites	
Ex. 255.3-1	Wire Trough	FDM	Ex. 284-60	Wire Trough	
255.4	Lightning Protection	FDM	284.3.4	Lightning Protection	
Ex. 255.4-1	Gantry Upright Lightning Protection Detail	FDM	Ex. 284-61	Gantry Upright Lightning Protection Detail	
255.5	Non-Accessible Gantry	FDM	284.3.5	Non-Accessible Gantry	
255.5.1	Conduit	FDM	284.3.5.1	Conduit	
Ex. 255.5-1	Span Upright Conduit Layout	FDM	Ex. 284-62	Span Upright Conduit Layout	
Ex. 255.5-2	Cantilever Upright Conduit Layout	FDM	Ex. 284-63	Cantilever Upright Conduit Layout	
255.5.2	Longitudinal Cable Trays	FDM	284.3.5.2	Longitudinal Cable Trays	
255.5.3	Equipment Cable Tray	FDM	284.3.5.3	Equipment Cable Tray	
255.5.4	Upright Cable Tray	FDM	284.3.5.4	Upright Cable Tray	
Ex. 255.5-3	Toll Equipment Cable Tray	FDM	Ex. 284-64	Toll Equipment Cable Tray	
255.5.5	AVI Reader Placement in Toll Equipment Building	FDM	284.3.5.5	AVI Reader Placement in Toll Equipment Building	
255.5.6	AVI Reader Ground-Mounted Frames	FDM	284.3.5.6	AVI Reader Ground-Mounted Frames	

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255.5.7	AVI Reader Gantry-Mounted Frame	FDM	284.3.5.7	AVI Reader Gantry-Mounted Frame	
Ex. 255.5-4	AVI Reader in Non-Accessible Gantry Mounting Detail	FDM	Ex. 284-65	AVI Reader in Non-Accessible Gantry Mounting Detail	
255.5.8	Cantilever Gantry Mounted on Median Barrier	FDM	284.3.5.8	Cantilever Gantry Mounted on Median Barrier	
255.5.9	Cantilever Gantry Mounted Behind Concrete Barrier	FDM	284.3.5.9	Cantilever Gantry Mounted Behind Concrete Barrier	
Ex. 255.5-5	Cantilever Gantry Upright Conduit Layout	FDM	Ex. 284-66	Cantilever Gantry Upright Conduit Layout	
255.6	Accessible Gantry	FDM	284.3.6	Accessible Gantry	
255.6.1	General Requirements	FDM	284.3.6.1	General Requirements	
Ex. 255.6-1	Accessible Gantry Electrical Plan	FDM	Ex. 284-67	Accessible Gantry Electrical Plan	
255.6.2	Cable Trays	FDM	284.3.6.2	Cable Trays	
Ex. 255.6-2	Accessible Gantry Cable Tray Layout	FDM	Ex. 284-68	Accessible Gantry Cable Tray Layout	
Ex. 255.6-3	Accessible Gantry Transverse Cable Tray	FDM	Ex. 284-69	Accessible Gantry Transverse Cable Tray	
255.6.3	AVI Reader Accessible Gantry-Mounted Frame	FDM	284.3.6.3	AVI Reader Accessible Gantry-Mounted Frame	
Ex. 255.6-4	Accessible Gantry AVI Reader Enclosure Layout	FDM	Ex. 284-70	Accessible Gantry AVI Reader Enclosure Layout	
255.6.4	Wireway Transition to Wire Troughs	FDM	284.3.6.4	Wireway Transition to Wire Troughs	
Ex. 255.6-5	Accessible Gantry Typical Wire Trough Layout	FDM	Ex. 284-71	Accessible Gantry Typical Wire Trough Layout	
Ex. 255.6-6	Accessible Gantry Typical Electrical Layout	FDM	Ex. 284-72	Accessible Gantry Typical Electrical Layout	
Ex. 255.6-7	Accessible Gantry Typical Wireway to Cable Tray Detail	FDM	Ex. 284-73	Accessible Gantry Typical Wireway to Cable Tray Detail	
Ex. 255.6-8	Accessible Gantry Upright Electrical Wireway Detail	FDM	Ex. 284-74	Accessible Gantry Upright Electrical Wireway Detail	
255.6.5	Lighting for Platform and Stairway	FDM	284.3.6.5	Lighting for Platform and Stairway	
Ex. 255.6-9	Accessible Gantry Rope Light Mounting Details	FDM	Ex. 284-75	Accessible Gantry Rope Light Mounting Details	
Ex. 255.6-10	Accessible Gantry Stair and Platform Lighting	FDM	Ex. 284-76	Accessible Gantry Stair and Platform Lighting	
255.7	CCTV System	FDM	284.3.7	CCTV System	
Ex. 255.7-1	CCTV Camera Gantry Backbox Mounting Details	FDM	Ex. 284-77	CCTV Camera Gantry Backbox Mounting Details	
260	**Communications**	**FDM**	**285**	**Toll Communications**	
260.1	General Requirements	FDM	285.1	General Requirements	
260.2	Communication Cabinets	FDM	285.2	Communication Cabinets	
260.2.1	Toll Equipment Building Toll Communications Cabinet	FDM	285.2.1	Toll Equipment Building Toll Communications Cabinet	
260.2.2	Roadside Tolling Cabinet Site Outdoor Communications Cabinet	FDM	285.2.2	Roadside Tolling Cabinet Site Outdoor Communications Cabinet	
Ex. 260.2-1	Toll Communications Cabinet, Conduit, and Cable Routing	FDM	Ex. 285-1	Toll Communications Cabinet, Conduit, and Cable Routing	
Ex. 260.2-2	Outdoor Communications Cabinet	FDM	Ex. 285-2	Outdoor Communications Cabinet	
260.3	Tolls Fiber Allocation	FDM	285.3	Tolls Fiber Allocation	
260.4	Toll Fiber Optic Lateral and Infrastructure	FDM	285.4	Toll Fiber Optic Lateral and Infrastructure	
Ex. 260.4-1	Fiber-optic Interface	FDM	Ex. 285-3	Fiber-Optic Interface	
260.5	Splicing and Termination of Tolls Fiber Optic Lateral	FDM	285.5	Splicing and Termination of Tolls Fiber Optic Lateral	
Ex. 260.5-1	Fiber-Optic Lateral Splice Diagram	FDM	Ex. 285-4	Fiber-Optic Lateral Splice Diagram	
260.6	Leased Circuit Digital Communication Lines	FDM	285.6	Leased Line Digital Communication	
Ex. 260.6-1	Leased Line Digital Communication Interface	FDM	Ex. 285-5	Leased Line Digital Communication Interface	
260.7	Impacting Existing Tolls Communications	FDM	285.7	Impacting Existing Tolls Communications	

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270	**Building Permits**	**FDM**	**286**	**Toll Building Permits**	
270.1	Introduction	FDM	286.1	Introduction	
270.2	Building Code Administrator	FDM	286.2	Building Code Administrator	
270.3	Building Permit Coordinator	FDM	286.3	Building Permit Coordinator	
270.4	Permit Requirements	FDM	286.4	Permit Requirements	
280	**Geotechnical**	N/A	N/A	N/A	
280.1	Roadside Tolling Cabinet Site(s)	GDM	3.2.7	Roadside Tolling Cabinets	Relocated to the Geotechnical Design Manual (GDM)
280.2	Toll Equipment Building Foundation	GDM	3.2.8	Toll Equipment Building Foundation	Relocated to the Geotechnical Design Manual (GDM)
280.3	Gantry Foundation	GDM	3.2.9	Toll Gantry Foundation	Relocated to the Geotechnical Design Manual (GDM)
Part 2, Appendix 1	**TECHNICAL SPECIAL PROVISION SECTIONS FOR TEB AND RTC TOLL SITES**	TSP Library	N/A	Gantry/Site Package	https://floridasturnpike.com/business-opportunities/design/toll-facility-tsp-library/
Part 2, Appendix 2	**TECHNICAL SPECIAL PROVISION SECTIONS FOR TOLL SITES WITH A TEB**	TSP Library	N/A	TEB Package	https://floridasturnpike.com/business-opportunities/design/toll-facility-tsp-library/
Part 2, Appendix 3	**TECHNICAL SPECIAL PROVISION SECTIONS FOR RTC TOLL SITES**	TSP Library	N/A	RTC Package	https://floridasturnpike.com/business-opportunities/design/toll-facility-tsp-library/
Part 2, Appendix 4	**SIGNING AND PAVEMENT MARKING AT TOLL SITES**	N/A	N/A	N/A	
Sheet No. 101-1	INTRODUCTION TO APPENDIX 4	N/A	Omit	N/A	Discuss note at top of page with Turnpike.
Sheet No. 102-2	ALL ELECTRONIC TOLLING ENTRANCE/EXIT RAMP TYPICAL SIGNING LAYOUT	FDM	Ex. 230-16b	ALL ELECTRONIC TOLLING ENTRANCE/EXIT RAMP TYPICAL SIGNING LAYOUT	FDM Figure already exists.
Sheet No. 102-3	ALL ELECTRONIC TOLLING MAINLINE TOLL TYPICAL SIGNING LAYOUT	FDM	Ex. 230-16c	ALL ELECTRONIC TOLLING MAINLINE TOLL TYPICAL SIGNING LAYOUT	FDM Figure already exists.
Sheet No. 102-4	ALL ELECTRONIC TOLLING TOLL-BY-PLATE SIGN PANEL	SP Index	700-102 Sheet 22	SPECIAL SIGN DETAILS	
Sheet No. 102-7	ALL ELECTRONIC TOLLING FIXED TOLL AMOUNT SIGN PANELS	SP Index	700-102 Sheet 22	SPECIAL SIGN DETAILS	
Sheet No. 104-1	DUAL DEDICATED MAINLINE TOLL PLAZA SIGNING AND PAVEMENT MARKING LAYOUT	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 104-2	RAMP TOLL PLAZA TYPICAL SUNPASS SIGNING AND PAVEMENT MARKINGS	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 104-3	TOLL PLAZA SIGNING DETAILS APPROACH SIGN PANELS	SP Index	700-102 Sheet 23	SPECIAL SIGN DETAILS	
Sheet No. 104-4	TOLL PLAZA SIGNING DETAILS APPROACH SIGN PANELS	SP Index	700-102 Sheet 23	SPECIAL SIGN DETAILS	
Sheet No. 104-5	TOLL PLAZA SIGNING DETAILS APPROACH SIGN PANELS	SP Index	700-102 Sheet 23 & 24	SPECIAL SIGN DETAILS	
Sheet No. 104-6	TOLL PLAZA SIGNING DETAILS APPROACH SIGN PANELS	SP Index	700-102 Sheet 24	SPECIAL SIGN DETAILS	
Sheet No. 105-1	ORT MAINLINE TOLL PLAZA SIGNING LAYOUT	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 105-2	ORT SIGNING DETAILS MAINLINE SIGN PANELS	SP Index	700-102 Sheet 23 & 24	SPECIAL SIGN DETAILS	
Sheet No. 105-3	ORT SIGNING DETAILS MAINLINE SIGN PANELS	SP Index	700-102 Sheet 23 & 24	SPECIAL SIGN DETAILS	
Sheet No. 105-4	ORT SIGNING DETAILS MAINLINE SIGN PANELS	SP Index	700-102 Sheet 23	SPECIAL SIGN DETAILS	

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Sheet No. 106-1	TOLL PLAZA SIGNING DETAILS MAINLINE CANOPY MOUNTED SIGN PANELS	SP Index	700-102 Sheet 25	SPECIAL SIGN DETAILS	
Sheet No. 106-2	TOLL PLAZA SIGNING DETAILS MAINLINE CANOPY MOUNTED SIGN PANELS	SP Index	700-102 Sheet 25	SPECIAL SIGN DETAILS	
Sheet No. 106-3	TOLL PLAZA SIGNING DETAILS MAINLINE CANOPY MOUNTED SIGN PANELS	SP Index	700-102 Sheet 26	SPECIAL SIGN DETAILS	
Sheet No. 106-4	TOLL PLAZA SIGNING DETAILS RAMP CANOPY MOUNTED SIGN PANELS	SP Index	700-102 Sheet 25	SPECIAL SIGN DETAILS	
Sheet No. 107-1	CASH LANE TOLL PLAZA SIGNING LAYOUT	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 107-2	COIN LANE TOLL PLAZA SIGNING LAYOUT	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 107-3	SUNPASS LANE TOLL PLAZA SIGNING LAYOUT	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 107-4	TOLL PLAZA SPECIAL DETAILS	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 107-5	TOLL PLAZA SPECIAL DETAILS	N/A	Omit	N/A	Cash-related toll lanes are no longer utilized for new construction. There are no longer cash facilities on the Turnpike System.
Sheet No. 107-6	PLAZA AREA SIGNING DETAILS SIGN PANELS	SP Index	700-102 Sheet 28	SPECIAL SIGN DETAILS	
Sheet No. 107-7	PLAZA & GANTRY AREA SIGNING DETAILS SIGN PANELS	SP Index	700-102 Sheet 28	SPECIAL SIGN DETAILS	
Sheet No. 108-3	SPECIAL SIGN DETAILS	SP Index	700-102 Sheet 29	SPECIAL SIGN DETAILS	
Sheet No. 109-1	MISCELLANEOUS DETAILS SIGN PLACEMENT	N/A	Omit	N/A	Decision Sight Distance should be determined by the EOR in accordance with the guidance in the AASHTO Greenbook. The sight line values shown here are less than AASHTO for DSD and SSD. This Exhibit is proposed to be deleted.
300	**Toll Submittal Requirements**	**FDM**	**947**	**Toll Facilities Plans**	
300.1	General	FDM	947.1	General	
300.2	Sheet Borders	FDM	947.2	Sheet Borders	
301	**Toll Facility Plans Component Sheets**	FDM	947.3	Toll Facility Plans Component Sheets	
301.1	Master Key Sheet	FDM	947.3.1	Master Key Sheet	
Ex. 301.1-1	Toll Facility Plans Master Key Sheet Layout	FDM	Ex. 947-1	Toll Facility Plans Master Key Sheet Layout	Removed GTR Reference
301.2	Signature Sheet	FDM	947.3.2	Signature Sheet	
301.3	Toll Site Location Map	FDM	947.3.3	Toll Site Location Map	
Ex. 301.3-1	Toll Site Location Map Layout	FDM	Ex. 947-2	Toll Site Location Map Layout	
302	**Sub-Components of Toll Facility Plans**	FDM	947.4	Sub-Components of Toll Facility Plans	
302.1	Sub-Component Plans	FDM	947.4.1	Sub-Component Plans	
302.2	Sub-Component Key Sheets	FDM	947.4.2	Sub-Component Key Sheets	
Ex. 302.2-1	Toll Facilities Sub-Component Key Sheet	FDM	Ex. 947-3	Toll Facilities Sub-Component Key Sheet	Removed GTR Reference

GTR Section	GTR Title	FDOT Publication	Section/ID	Title	Notes
302.3	Toll Site Demolition / Renovation Plans	FDM	947.4.3	Toll Site Demolition/Renovation Plans	
302.3.1	Index of Sheets for Demolition / Renovation Plans (per site)	FDM	947.4.3.1	Index of Sheets for Demolition/Renovation Plans (per site)	
Ex. 302.3-1	Demolition / Renovation Plans Drawing Numbering Convention	FDM	Fig. 947.4.1	Demolition/Renovation Plans Drawing Numbering Convention	
302.4	Toll Facility Site Plans	FDM	947.4.4	Toll Facility Site Plans	
302.4.1	Site Civil	FDM	947.4.4.1	Site Civil	
302.4.2	Site Electrical	FDM	947.4.4.2	Site Electrical	
302.4.3	Index of Toll Site Plans (each site)	FDM	947.4.4.3	Index of Toll Site Plans (each site)	
Ex. 302.4-1	Toll Facility Site Plans Drawing Numbering Convention	FDM	Fig. 947.4.2	Toll Facility Site Plans Drawing Numbering Convention	
302.5	Toll Facility Building Plans	FDM	947.4.5	Toll Facility Building Plans	
302.5.1	Architectural Plans	FDM	947.4.5.1	Architectural Plans	
302.5.2	Structural Plans and Calculations	FDM	947.4.5.2	Structural Plans and Calculations	
302.5.3	Mechanical Plans	FDM	947.4.5.3	Mechanical Plans	
302.5.4	Electrical Plans	FDM	947.4.5.4	Electrical Plans	
302.5.5	Index of Toll Facility Building Plans (per building type)	FDM	947.4.5.5	Index of Toll Facility Building Plans (per building type)	
Ex. 302.5-1	Toll Facility Building Plans Drawing Numbering Convention	FDM	Fig. 947.4.3	Toll Facility Building Plans Drawing Numbering Convention	
302.6	Non-Accessible Gantry Plans	FDM	947.4.6	Non-Accessible Gantry Plans	
302.6.1	Non-Accessible Gantry Structural Plans	FDM	947.4.6.1	Non-Accessible Gantry Structural Plans	Consider relocating to the Structures Detailing Manual for next cycle.
302.6.2	Non-Accessible Gantry Electrical Plans	FDM	947.4.6.2	Non-Accessible Gantry Electrical Plans	
302.6.3	Index of Non-Accessible Gantry Plans (each gantry)	FDM	947.4.6.3	Index of Non-Accessible Gantry Plans (each gantry)	
Ex. 302.6-1	Non-Accessible Gantry Drawing Numbering Convention	FDM	Fig. 947.4.4	Non-Accessible Gantry Drawing Numbering Convention	
302.7	Accessible Gantry Plans	FDM	947.4.7	Accessible Gantry Plans	
302.7.1	Accessible Gantry Structural Plans	FDM	947.4.7.1	Accessible Gantry Structural Plans	Consider relocating to the Structures Detailing Manual for next cycle.
302.7.2	Accessible Gantry Electrical Plans	FDM	947.4.7.2	Accessible Gantry Electrical Plans	
302.7.3	Index of Accessible Gantry Plans (each gantry)	FDM	947.4.7.3	Index of Accessible Gantry Plans (each gantry)	
Ex. 302.7-1	Accessible Gantry Drawing Numbering Convention	FDM	Fig. 947.4.5	Accessible Gantry Drawing Numbering Convention	
303	**Phase Submittals for Conventional Projects**	N/A	N/A	N/A	Merged with existing FDM 901
303.1	General	FDM	901.3	Conventional (Design-Bid-Build) Projects	Merged with existing FDM 901
Ex. 303.1-1	Summary of Phase Submittals for Conventional Projects	FDM	Table 901.3.1	Phase Submittals for Conventional Projects	Merged with existing FDM 901
303.2	Phase I Submittal	FDM	901.3.1	Phase I Submittal	Merged with existing FDM 901
303.3	Phase II Submittal	FDM	901.3.2	Phase II Submittal	Merged with existing FDM 901
303.4	Phase III Submittal	FDM	901.3.3	Phase III Submittal	Merged with existing FDM 901
303.5	Phase IV Submittal	FDM	901.3.4	Phase IV Submittal	Merged with existing FDM 901
303.6	Permit Plans	FDM	901.3.5	Toll Building Permit Plans	Merged with existing FDM 901
304	**Phase Submittals for Non-Conventional Projects**	N/A	N/A	N/A	Merged with existing FDM 901
304.1	General	FDM	901.4	Non-conventional (Design-Build) Projects	Merged with existing FDM 901
Ex. 304.1-1	Summary of Submittals for Non-Conventional Projects	FDM	Table 901.4.1	Phase Submittals for Non-conventional Projects	Merged with existing FDM 901
304.2	Technical Proposal Submittal	FDM	901.4.2	Technical Proposal Submittal	Merged with existing FDM 901
304.3	90% Submittal	FDM	901.4.3	90% Plans Component Submittal	Merged with existing FDM 901
304.4	Permit Plans	FDM	901.4.4	Permit Plans	Merged with existing FDM 901
305	**Design Analysis Reports**	FDM	947.5	Design Analysis Reports	
305.1	General	FDM	947.5.1	General	

GTR Section	GTR Title	FDOT Publication	Section/ID	Title	Notes
305.2	Mechanical Design	FDM	947.5.2	Mechanical Design	
305.3	Electrical Design	FDM	947.5.3	Electrical Design	
N/A	N/A	FDM	947.6	General Notes	Included General Notes to match 900 series
306	**Pay Items**	FDM	947.7	Pay Items	
306.1	Pay Items Common to TEB and RTC Sites	FDM	947.7.1	Pay Items Common to TEB and RTC Sites	
306.2	TEB Sites	FDM	947.7.2	TEB Sites	
306.3	RTC Sites	FDM	947.7.3	RTC Sites	
307	**Technical Special Provision Updates**	FDM	947.8	Technical Special Provision Updates	
307.1	General	FDM	947.8.1	General	
308	**Shop Drawings**	N/A	N/A	N/A	
308.1	General	N/A	N/A	N/A	Deleted. Already covered by Standard Specifications 5-1.
FDM 100 Series Through FDM 900 Series Modified to Accommodate GTR Migration		FDM	103	Forms	Added new Form 122-C "Tolling Deviation"
		FDM	110.1	Initial Engineering Design Process - General	Introduce New Tolling Chapters 280-286 and 947
		FDM	111.1	Final Engineering Design Process - General	Introduce New Tolling Chapters 280-286 and 947
		FDM	111.2	Final Engineering Design	Add Toll Facilities Design to Final Engineering Activities
		FDM	111.4.2	Technical Special Provision (TSP)	Refer to FTE and New Tolling Chapter 280 for Tolling TSPs
		FDM	Table 111.7.1	Document Summary Table	Differentiate Toll Communications (FDM 285) from ITS (FDM 233)
Modified to Accommodate GTR Migration		FDM	122	Design Exceptions and Design Variations	Moved GTR Deviations into Current FDM Chapter 122 as Tolling Deviations
		FDM	210.1	Arterials and Collectors - General	Introduce New Tolling Chapters and Tolling Deviations
		FDM	211.1	Limited Access Facilities - General	Replace References to GTR w Reference to New FDM Tolling Chapters
		FDM	211.4	Limited Access Facilities - Shoulders	Replace Reference to GTR w Reference to New Tolling Chapter 281
		FDM	211.16	Limited Access Facilities - Maintenance Access	Replace Reference to GTR w Reference to New FDM Tolling Chapters
		FDM	230.2.8	NEW SECTION - Toll Facilities Signing and Pavt Marking	Require Coordination of Toll Facility Signing and Pavement Markings
		FDM	230.3	Pavement Markings	Added references to Exhibits and TEM for pavement marking and tubular markers
		FDM	233.5	Fiber Optics and Network Design	Replace Reference to GTR with Reference to New Tolling Chapter 285
		FDM	233.9	Traffic Data and Vehicle Detection Systems	Clarified that toll enforcement or toll system monitoring is covered in the FDM 280 Series.
		FDM	233.10	CCTV	CCTV for Tolling is Governed by New Tolling Chapter 285
		FDM	240.1	Transportation Management Plan - General	Introduce New Tolling Design Chapters 280-286
		FDM	261.6	Tolling Support Structures	Replace Reference to GTR with Reference to New Tolling Chapters
		FDM	901.1	Sequence of Plans Preparation - General	Replace Reference to GTR with Reference to New Tolling Chapters

GTR Section	GTR Title	FDOT Publication	Section/ID	Title	Notes
FDM 100 Series Through FDM 900 Series		FDM	901.3	Conventional (Design-Bid-Build) Projects	Turnpike Has Final Review Authority for Toll Facilities
		FDM	Table 901.3.1	Phase Submittals for Conventional Projects	Move GTR 304 into Current FDM Chapter 901
		FDM	901.3.1	Phase I Submittal	Move GTR 304 into Current FDM Chapter 901
		FDM	901.3.2	Phase II Submittal	Move GTR 304 into Current FDM Chapter 901
		FDM	901.3.3	Phase III Submittal	Move GTR 304 into Current FDM Chapter 901
		FDM	901.3.4	Phase IV Submittal	Move GTR 304 into Current FDM Chapter 901
		FDM	901.3.5	NEW SECTION - Permit Plans	Introduce New Tolling Chapter 286 for Permit Plans Submissions
		FDM	901.4	Non-conventional (Design-Build) Projects	Introduce New Tolling Chapter 947 for Toll Facilities Plans
		FDM	Table 901.4.1	Phase Submittals for Non-conventional Projects	Move GTR 304 into Current FDM Chapter 901
		FDM	901.4.2	Technical Proposal Submittal	Move GTR 304 into Current FDM Chapter 901
		FDM	901.4.3	90% Plans Component Submittal	Move GTR 304 into Current FDM Chapter 901
		FDM	901.4.4	NEW SECTION - Permit Plans	Introduce New Tolling Chapter 286 for Permit Plans
		FDM	907.1	RFP Concept Plans - General	Require Coordination with Turnpike
		FDM	907.4	RFP Concept Plans Delivery	Replace Reference to GTR with Reference to New Tolling Chapter 280
		FDM	910.3.2	Digital Signature Placement	Introduce New Tolling Chapter 947 for EOR Responsibility
		FDM	942.1	Intelligent Transportation Systems Plans - General	Introduce New Tolling Chapters 280-286 and 947