

TABLE OF CONTENTS
FY 2027-28 STANDARD PLANS FOR ROAD CONSTRUCTION

Standard Plans	Index	Index Title
Miscellaneous		
000-510		Superelevation Transitions - High Speed Roadways
000-511		Superelevation Transitions - Low Speed Roadways
000-525		Ramp Terminals
General Construction Operations		
Maintenance of Traffic		
102-100		Temporary Barrier
102-110		Type K Temporary Concrete Barrier System
102-120		Low Profile Barrier
102-600		General Information for Traffic Control Through Work Zones
102-601		Two-Lane and Multilane Roadway, Work Beyond Shoulder
102-602		Two-Lane and Multilane, Work on Shoulder
102-603		Two-Lane, Two-Way, Work Within the Travel Way
102-604		Two-Lane, Two-Way, Intersection Work
102-606		Two-Lane Roadway, Lane Closure Using Temporary Traffic Signals
102-607		Mobile Operations
102-608		Two-Lane, Two-Way, Temporary Diversion Connection
102-613		Multilane Roadway, Lane Closures
102-615		Multilane Roadway, Intersection Work
102-620		Multilane Roadway, Temporary Diversion
102-625		Temporary Road Closure
102-628		Two-Way Left-Turn Lanes
102-655		Traffic Pacing
102-660		Sidewalk Closure
102-661		Bicycle Facility Closures
102-665		Limited Access Temporary Opening
102-680		Haul Road Crossing
Clearing Construction Site		
Clearing and Grubbing		
110-100		Tree Protection and Preservation
110-200		Mailboxes
Earthwork and Related Operations		
120-001		Embankment Utilization
120-002		Subsoil Excavation
125-001		Utility Adjustments thru Existing Pavement
141-T01		Settlement Plate
160-001		Miscellaneous Earthwork Details

Standard Plans	Index	Index Title
Bituminous Treatments, Surface Courses, and Concrete Pavement		
Concrete Pavement		
330-001		Paved and Graded Driveways
350-001		Concrete Pavement Joints
353-001		Concrete Slab Replacement
370-001		Bridge Approach Expansion Joint - Concrete Pavement with Special Select Soil Base
Structures		
Concrete Structures		
400-010		Cantilever Retaining Wall (C-I-P)
400-011		Gravity Wall
400-021		Concrete Steps
Inlets, Manholes and Junction Boxes		
425-001		Supplementary Details for Manholes and Inlets
425-010		Structure Bottoms - Type J and P
425-020		Curb Inlet Tops - Types 1, 2, 3 and 4
425-021		Curb Inlet Tops - Types 5 and 6
425-022		Curb Inlet - Type 7
425-023		Curb Inlet - Type 8
425-024		Curb Inlet Top - Type 9
425-025		Curb Inlet Top - Type 10
425-030		Median Barrier Inlets Types 1 and 2
425-031		Adjacent Barrier Inlet
425-032		Curb and Gutter Barrier Inlet
425-040		Gutter Inlet - Type S
425-041		Gutter Inlet - Type V
425-050		Ditch Bottom Inlet - Type A
425-051		Ditch Bottom Inlet - Type B
425-052		Ditch Bottom Inlets - Types C, D, E and H
425-053		Ditch Bottom Inlets - Types F and G
425-054		Ditch Bottom Inlet - Type J
425-055		Ditch Bottom Inlet - Type K
425-060		Back of Sidewalk Drainage
425-061		Closed Flume Inlet
425-070		Skimmer for Outlet Control Structures
425-080		Utility Conflicts thru Drainage Structures
425-090		Safety Modifications for Inlets In Box Culverts

TABLE OF CONTENTS

FY 2027-28 STANDARD PLANS FOR ROAD CONSTRUCTION

Standard Plans	Index	Index Title
Pipe Culverts - End Treatments		
430-001		Miscellaneous Drainage Details
430-010		U-Type Concrete Endwalls With Grates - 15" to 30" Pipe
430-011		U-Type Concrete Endwalls - Baffles and Grate Optional - 15" to 30" Pipe
430-012		U-Type Concrete Endwall - Energy Dissipator - 30" to 72" Pipe
430-020		Flared End Section
430-021		Cross Drain Mitered End Section
430-022		Side Drain Mitered End Section
430-030		Straight Concrete Endwalls - Single and Multiple Pipe
430-031		Straight Concrete Endwalls - Single and Double 60" Pipe
430-032		Straight Concrete Endwalls - Single and Double 66" Pipe
430-033		Straight Concrete Endwalls - Single and Double 72" Pipe
430-034		Straight Concrete Endwalls - Single 84" Pipe
430-040		Winged Concrete Endwalls
430-090		Safety Modifications for Endwalls
Structures - Miscellaneous Drainage		
436-001		Trench Drain
440-001		Underdrain
440-002		Underdrain Inspection Box
443-001		French Drain
443-002		Skimmers for French Drain Outlets
444-T01		Deep Well Injection Box
446-001		Concrete Pavement Subdrainage
Structures Foundations - Sheet Pile Wall		
455-400		Precast Concrete Sheet Pile Wall (Conventional)
455-440		Precast Concrete Sheet Pile Wall (CFRP/GFRP & HSSS/GFRP)
455-500		Temporary Cantilever Steel Sheet Pile Wall
Incidental Construction		
Miscellaneous		
508-T01		Traffic Control Devices for Movable Span Bridge Signals
509-070		Railroad Grade Crossing Traffic Control Devices
509-100		Advance Warning for R/R Crossing
Metal Pedestrian/Bicycle Railings, Guiderails and Handrails		
515-052		Pedestrian/Bicycle Railing (Steel)
515-062		Pedestrian/Bicycle Railing (Aluminum)
515-070		Pipe Guiderail (Aluminum)
515-080		Pipe Guiderail (Steel)
Concrete Gutter, Curb Elements and Traffic Separator		
520-001		Curb and Gutter
520-005		Concrete Shoulder Gutter Spillway
520-010		Median Opening Flume
520-020		Traffic Separators

Standard Plans	Index	Index Title
Concrete Barriers, Traffic Railings, and Parapets		
521-001		Concrete Barrier
521-002		Pier Protection Barrier
521-005		Concrete Barrier at Toll Sites
521-010		Opaque Visual Barrier
521-510		Concrete Barrier/Noise Wall (8'-0")
521-511		Concrete Barrier/Noise Wall (14'-0")
521-512		Concrete Barrier/Noise Wall-Junction Slab
521-513		Concrete Barrier/Noise Wall T-Shaped Spread Footing
521-514		Concrete Barrier/Noise Wall L-Shaped Spread Footing
521-515		Concrete Barrier/Noise Wall Trench Footing
521-600		MSE Wall Coping (Precast or C-I-P)
521-610		Concrete Barrier/Junction Slab - Wall Coping
521-611		Concrete Barrier/Junction Slab-Wall Coping (FRP)
521-620		Concrete Barrier/Raised Sidewalk - Wall Coping
521-630		Parapet with C-I-P Sidewalk - Wall Coping
521-640		Drainage Inlet Openings in Junction Slab - Wall Coping
521-650		Light Pole Pedestal - Wall Coping
Concrete Sidewalk and Driveways		
522-001		Concrete Sidewalk
522-002		Detectable Warnings and Sidewalk Curb Ramps
522-003		Concrete Flared Driveways
Ditch and Slope Pavement		
524-001		Ditch Pavement and Sodding
Noise and Perimeter Walls		
534-200		Noise Walls (Precast)
534-250		Perimeter Walls
Guardrail		
536-001		Guardrail
536-002		Guardrail Transitions and Connections for Existing Bridges
Crash Cushions		
544-001		Crash Cushion Transition Details
Rumble Strips		
546-001		Raised Rumble Strips
546-010		Ground-In Rumble Strips
Retaining Wall Systems		
548-020		MSE Retaining Wall Systems - Permanent
548-030		MSE Retaining Wall Systems - Temporary
Fencing		
550-001		Fence - Type A
550-002		Fence - Type B
550-003		Cantilever Slide Gate - Type B Fence

TABLE OF CONTENTS
FY 2027-28 STANDARD PLANS FOR ROAD CONSTRUCTION

Standard Plans	Index	Index Title
Fencing (Cont.)		
550-004		Fence Location
Performance Turf		
570-001		Permanent Erosion Control
570-010		Shoulder Sodding and Turf on Existing Facilities
Landscape		
580-001		Landscape Installation
<u>Traffic Control Signals and Devices</u>		
630-001		Conduit Installation Details
634-001		Signal Cable and Span Wire Installation Details
634-002		Aerial Interconnect
635-001		Pull and Splice Boxes
635-005		Fiber Optic Splice Vault
639-001		Service Point Details
639-002		Electric Power Service
641-010		Concrete Poles
641-020		Concrete CCTV Pole
646-001		Aluminum Post and Pedestal Mounted Pedestrian Detectors and Signals
649-010		Steel Strain Pole
649-020		Steel CCTV Pole
649-030		Standard Mast Arm Assemblies
649-031		Mast Arm Assemblies
653-001		Pedestrian Control Signal Installation Details
654-001		Rectangular Rapid Flashing Beacon Assembly
659-010		Span Wire Mounted Sign Details
659-020		Camera Mounting Details
660-001		Vehicle Loop Installation Details
665-001		Pedestrian Detector Assembly Installation Details
671-001		Standard Signal Operating Plans
676-010		Cabinet Installation Details
695-001		Traffic Monitoring Site
<u>Signing, Pavement Markings and Lighting</u>		
Highway Signing		
700-010		Single Column Ground Signs
700-011		Single Column Cantilever Ground Mounted Sign
700-012		Single Post Sign Support Barrier Side-Mounted
700-013		Single Post Sign Support Barrier Top-Mounted
700-020		Multi-Column Ground Sign
700-030		Wind and Hanger Beams for Overhead Signs
700-031		External Lighting for Signs

Standard Plans	Index	Index Title
Highway Signing (Cont.)		
700-040		Cantilever Sign Structure
700-041		Span Sign Structure
700-050		Free-Swinging, Internally-Illuminated Street Sign Assemblies
700-090		Dynamic Message Sign Walk-In
700-091		Catwalk Details
700-101		Typical Sections for Placement of Single and Multi-Column Signs
700-102		Special Sign Details
700-104		Signing for Motorist Services
700-105		Welcome Center Signing
700-106		Rural Narrow Bridge Treatment
700-107		Bridge Weight Restrictions
700-108		Typical Signing for Truck Weigh and Inspection Stations
700-110		Mounting Exit Number Panels to Signs
700-120		Enhanced Highway Signing Assemblies
Pavement Markings		
706-001		Typical Placement of Raised Pavement Markers
711-001		Pavement Markings
711-002		Bicycle Markings
711-003		Interchange Markings
Highway Lighting Systems		
715-001		Conventional Lighting
715-002		Standard Aluminum Lighting
715-003		Utility Conflict Pole
715-010		High Mast Lighting
Railroad Crossing		
830-T01		Railroad (Grade) Crossings