RHODE ISLAND STANDARD DETAILS
INDEX

New No. (Old No.)	Title
1.1.0 (1.1)	Underdrain
1.2.0 (1.2)	Combination Drain
1.3.0 (1.4)	Concrete Connecting Collar
2.1.0 (2.1)	Concrete Headwalls for Pipe Culverts
2.2.0A (2.2)	Standard Headwalls for Multiple 3'-6" to 7'-0" Pipe Culverts (Sheet 1 of 2)
2.2.0B (2.21)	Standard Headwalls for Multiple 3'-6" to 7'-0" Pipe Culverts (Sheet 2 of 2)
2.3.0 (2.6)	Precast Concrete Flared End Section
3.2.0 (3.1)	Brick/Solid Block 4'-0" Round Manhole
3.2.1 (3.2)	Brick/Solid Block 5'-0" or 6'-0" Round Manhole
3.2.2	Solid Block Shallow 4'-0" or 5'-0" Round Manhole
3.3.0 (4.2)	Brick/Solid Block Type "D" Square Catch Basin
3.3.1 (4.9)	Brick/Solid Block Driveway Basin and Gutter Inlet
3.3.2 (4.4)	Brick/Solid Block Type "F" Square Catch Basin
3.3.3 (4.71)	Solid Block Flush Square Catch Basin
3.3.4 (4.16)	Brick/Solid Block Double Grate Catch Basin Grate Parallel to Edge of Pavement
3.3.5 (4.17)	Brick/Solid Block Double Grate Catch Basin Grate Perpendicular to Edge of Pavement
3.3.6A (4.18)	High Capacity Inlet (Sheet 1 of 2)
3.3.6B (4.18)	High Capacity Inlet (Sheet 2 of 2)
3.4.0 (4.1)	Brick/Solid Block Type "D" Round Catch Basin
3.4.1 (4.5)	Brick/Solid Block Round Catch Basin with Gutter Inlet
3.4.2 (4.3)	Brick/Solid Block Type "F" Round Catch Basin
3.4.3 (4.6)	Brick/Solid Block Type "R" Catch Basin
3.4.4 (4.70)	Solid Block Flush Round Catch Basin
3.4.5 (4.8)	Brick/Solid Block 5'-0" or 6'-0" Round Catch Basin
3.5.0	Solid Block Shallow Type "F" Square Catch Basin (Pipe Cover 1'-6" to 3"-0")

3.5.1	Solid Block Shallow 5'-0" or 6'-0" Square Catch Basin (Pipe Cover 1'-6" to 3"-0")
3.5.2	Solid Block Shallow Double Grate Catch Basin Grate Parallel to Curb
3.5.3	Solid Block Shallow Double Grate Catch Basin Grate Parallel to Edge of Pavement
3.5.4	Solid Block Shallow Double Grate Catch Basin Grate Perpendicular to Curb
3.5.5	Solid Block Shallow Double Grate Catch Basin Grate Perpendicular to Edge of Pavement
3.6.0 (4.11)	Brick/Solid Block Drop Inlet
3.7.0 (3.5)	Brick/Solid Block Round Manhole or Catch Basin Depth Greater Than 12'-0"
4.2.0 (4.32)	Precast 4'-0" Round Manhole
4.2.1 (4.33)	Precast 5'-0" Round Manhole
4.2.2 (4.34)	Precast 6'-0" Round Manhole
4.3.0 (4.37)	Precast 4'-0" or 6'-0" Square Manhole or Catch Basin
4.4.0 (4.31)	Precast 4'-0", 5'-0" or 6'-0" Round Catch Basin
4.5.0 (4.12)	Precast Concrete Drop Inlet
4.5.1 (4.13)	Precast Concrete Drop Inlet Lateral Outlet
4.5.2 (4.14)	Precast Concrete Drop Inlet Longitudinal Outlet
4.6.0	Concrete Cover for Shallow 4'-0" Round Manholes
4.6.1	Concrete Cover for Shallow 5'-0" Round Manholes
4.7.0 (4.38)	Top Cover for 4'-0" or 6'-0" Square Catch Basins and Manholes
4.7.1 (4.39)	Top Cover Monolithic with Riser Section for 4'-0" or 6'-0" Square Catch Basins and Manholes
4.7.2 (4.36)	Alternate Top Cover for Round Precast Manholes and Catch Basins
4.8.0	Concrete Cover for Shallow Type "F" Square Catch Basins
4.8.1	Concrete Cover for Shallow Double Grate Catch Basins With Curb
4.8.2	Concrete Cover for Shallow Double Grate Catch Basins Without Curb
4.8.3	Concrete Cover for Shallow 5'-0" Square Catch Basins
4.8.4	Concrete Cover for Shallow 6'-0" Square Catch Basins
5.1.0 (4.15)	Precast Concrete Sump for Round Catch Basins (Wet Areas)

5.2.0 (4.35)	Round Manholes and Catch Basins Maximum Pipe Size Standard
5.3.0 (5.33)	Catch Basin and Manhole Step
5.4.0 (4.95)	Concrete Collars
6.1.0 (5.11)	Light-Duty Square Frame and Round Cover
6.1.1	Heavy-Duty Square Frame and Round Cover
6.2.0 (5.21)	Light-Duty Round Frame and Cover
6.2.1 (5.22)	Heavy-Duty Round Frame and Cover
6.3.0 (5.12)	Square Frame and Grate
6.3.1 (5.13)	Square Frame and Grate
6.3.2 (5.17)	Square Frame and Grate (Bicycle Safe)
6.3.3 (5.15)	High Capacity Frame and Grate
6.3.4 (5.16)	High Capacity Frame and Grate (Bicycle Safe)
6.4.0 (5.14)	Round Frame and Grate
7.1.0 (7.11)	Precast Concrete Curb
7.1.1 (7.18)	3'-0" Precast Concrete Transition Curb
7.1.2 (7.17)	6'-0" Precast Concrete Transition Curb
7.1.3 (7.19)	Precast Concrete Wheelchair Ramp Transition Curb
7.1.4 (7.16)	Precast Concrete 2'-0" Radius Corner
7.1.5 (7.12)	Precast Concrete Inlet Stone (for Square Catch Basin)
7.1.6 (7.13)	Precast Concrete Inlet Stone (for Round Catch Basin)
7.1.7 (7.14)	Precast Concrete Apron Stone (for Square Catch Basin)
7.1.8 (7.15)	Precast Concrete Apron Stone (for Round Catch Basin)
7.2.0 (7.21)	Precast Concrete Sloped Face Curb
7.2.1 (7.24)	Precast Concrete Sloped Face Transition Curb
7.2.2 (7.27)	Precast Concrete Transition Curb (Vertical Face to Sloped Face)
7.2.3 (10.9)	Precast Concrete Lot Curb
7.2.4 (7.29)	Precast Concrete Car Stops
7.3.0 (7.51)	Granite Curb
7.3.1 (7.58)	3'-0" Granite Transition Curb
7.3.2 (7.57)	6'-0" Granite Transition Curb
7.3.3 (7.59)	Granite Wheelchair Ramp Transition Curb

7.3.4 (7.56)	Granite 2'-0" Radius Corner
7.3.5 (7.52)	Granite Inlet Stone (for Square Catch Basin)
7.3.6 (7.53)	Granite Inlet Stone (for Round Catch Basin)
7.3.7 (7.54)	Granite Apron Stone (for Square Catch Basin)
7.3.8 (7.55)	Granite Apron Stone (for Round Catch Basin)
7.4.0 (7.50)	Granite Sloped Face Curb
7.4.1 (7.61)	Granite Sloped Face Transition Curb
7.4.2 (7.60)	Granite Transition Curb (Vertical Face to Sloped Face)
7.5.0 (7.41)	Bituminous Concrete Lip Curb
7.5.1 (7.43)	Bituminous Berm
7.6.0	Curb Setting Detail
8.1.0 (8.1)	Seeded Ditch
8.2.0 (8.2)	Bituminous Concrete Ditch
8.3.0 (8.3)	Rip-Rap Ditch
8.4.0	Paved Waterway
9.1.0 (9.1)	Baled Hay Erosion Check
9.2.0 (9.2)	Silt Fence Detail
9.3.0 (9.3)	Baled Hay Erosion Check and Silt Fence Combined
9.4.0 (9.4)	Baled Hay Ditch and Swale Erosion Check
9.5.0 (9.5)	Log and Hay Check Dam
9.6.0 (9.6)	Sand Bag Erosion Check
9.7.0 (9.8)	Dewatering Basin
9.8.0 (9.12)	Baled Hay Catch Basin Inlet Protection
9.9.0 (9.13)	Construction Access
10.1.0 (10.1)	Wet Stone Masonry Retaining Wall
10.2.0 (10.3)	Rubble Masonry Wall
10.3.0 (10.2)	Concrete Retaining Wall
10.4.0 (10.12)	Stone Masonry Steps
14.1.0 (14.1)	Concrete Highway Bound
14.2.0 (14.2)	Granite Highway Bound
14.3.0 (14.4)	Highway Bound Set In Concealed Ledge

14.4.0 (14.91)	Reinforced Concrete Precise Level Monument
14.4.1 (14.9)	Standard Bench Mark Heads
14.4.2 (14.92)	Standard Marker Triangulation Station
14.4.3 (14.93)	Geodetic Survey Disk
14.5.0 (---)	Survey Wedge
14.5.1 (---)	Survey Stake
15.1.0 (15.30)	Post and Mounting for Rural Mailbox
15.2.0 (15.20)	Post and Multiple Mountings for Rural Mailboxes
17.1.0	Traffic Monitoring Station Single Junction Box Wood Post Detail
17.1.1	Traffic Monitoring Station Double Junction Box Wood Post Detail
17.2.0	Traffic Monitoring Station Portable Computer Cable
17.3.0	Traffic Monitoring Station Pole Mounted Cabinet
17.3.1	Traffic Monitoring Station Type "H" Cabinet Post Mounted Installation
17.3.2	Traffic Monitoring Station Type "H" Cabinet - Electrical Service
17.4.0	Traffic Monitoring Station Controller Cabinet Ground Mounted Installation
17.4.1	Traffic Monitoring Station Controller Cabinet Wiring Details - Interior
17.5.0	Traffic Monitoring Station Power Outlet Box
17.6.0	Traffic Monitoring Station Flexible Conduit Installation
17.7.0	Traffic Monitoring Station Loop Wire Layout for Directional Counting
17.7.1	Traffic Monitoring Station Loop Wire Layout for Multiple Lanes in the Same Direction
17.7.2	Traffic Monitoring Station Axle Sensor and Loop Layout
17.7.3	Traffic Monitoring Station Loop Dimensions
17.7.4	Traffic Monitoring Station Loop Wire Installation
17.7.5	Traffic Monitoring Station Sawcut Cross-section with a Pavement Overlay
17.7.6	Traffic Monitoring Station Sawcut Cross-section without a Pavement Overlay

18.1.0 (18.1)	Concrete Light Standard Base
18.2.0 (18.10)	Precast Type "A" Handhole
18.2.1 (18.11)	Heavy-Duty Precast Handhole
18.2.2	Heavy-Duty Type "H" Handhole
18.3.0 (19.8)	Aluminum Lighting Standards
18.3.1	Aluminum Pole - Grounding Detail
18.3.2	Typical Luminaire - Wiring Diagram
18.3.4 (18.4)	Breakaway Support Couplings for Light Standards
18.3.5 (18.5)	Recessed Bolt Couplings for Light Standards
18.4.0	Service Pedestal
18.4.1	Service Pedestal - Grounding Detail
18.4.2	Service Pedestal 240/480 Volts - 3W
18.4.3	Service Pedestal 240/480 Volts - 3W
18.4.4	Service Pedestal 120/240 or 120/208 Volts - 3W
18.4.5	Service Pedestal 120/240 or 120/208 Volts - 3W
18.5.0	Phase-Neutral Connector Kit
18.6.0 (18.26)	Trench Detail for Conduit in Existing Roadway
18.7.0	Riser Pole Detail
19.1.0 (19.1)	Ground Mounted Controller Installation
19.1.1 (19.9)	Pole Mounted Controller Installation
19.2.0 (19.2)	Steel Mast Arm
19.3.0 (19.3)	Steel Span Pole
19.4.0 (19.4)	Aluminum Pedestal
19.5.0 (19.21)	Mast Arm and Span Pole Foundation
19.5.1 (19.31)	Ornamental Mast Arm Foundation
19.6.0A (19.5)	Inductance Loop Vehicle Detector Installation Details (Sheet 1 of 2)
19.6.0B (19.5)	Inductance Loop Vehicle Detector Installation Details (Sheet 2 of 2)
20.1.0 (19.15)	Pavement Markings Arrows and Only
20.2.0 (19.16)	Bi-Directional Control Device
24.1.0 (24.1)	Sign Post Selection and Installation Details Square Post (Signs up to 8'-0"Wx4'-0"H)

24.2.0 (24.2)	Sign Post Selection and Installation Details U-Channel Post (Signs up to 8'-0"Wx4'-0"H)
24.3.0	Construction and Temporary Sign Mountings (Signs up to 60 Sq. Ft.)
24.4.0 (24.17)	Cantilever Breakaway Sign Support for 4'-0" to 5'-0" Sidewalks
24.6.0 (24.14)	Parking Sign Mounting Detail
24.6.1 (19.10)	Street Sign Mounting Detail
24.6.2 (24.16)	Mile Marker Mounting Detail
24.6.3 (24.15)	Lightweight Steel Delineator Mounting Detail
24.6.4 (24.13)	Bridge Abutment Marker Mounting Detail
25.1.0 (25.7)	Temporary Construction Sign Cover Detail
25.2.0 (25.8)	Box Form
26.1.0 (26.6)	Fluorescent Traffic Cone
26.2.0 (26.5)	Polyethylene Drum with Markings
26.3.0 (26.15)	PVC Plastic Pipe Type III Barricade
26.3.1 (26.15A)	Plastic Pipe Type III Barricade
27.1.0 (27.0)	Regulatory Signs
27.1.1 (27.1)	Traffic Fines In Work Zone Regulatory Sign
28.1.0 (28.0)	Warning Signs
29.1.0 (29.0)	Construction Signs
29.1.1 (29.50)	Field Office Identification Sign
29.2.0 (29.0)	Guide Signs
30.1.0	Sign Location Details (Signs 6'-0"Wx4'-0"H and Greater)
30.1.1	Post Selection Table for Breakaway Signs (Signs 6'-0"Wx4'-0"H and Greater)
30.2.0	Foundation Details (Signs 6'-0"Wx4'-0"H and Greater)
30.2.1	Foundation Modification for Retrofit (Signs 6'-0"Wx4'-0"H and Greater)
30.3.0	Sign Panel Details (Signs 6'-0"Wx4'-0"H and Greater)
30.3.1	Post Clip and Bolt Detail (for Extruded Aluminum)
30.4.0	Ground Mounted Primary Directional Sign Post on Breakaway Couplings
30.4.1	Bracket Selection Table, Bolt Circle and General Notes

30.4.2	Installation Notes
30.4.3	Bill of Materials
31.1.0 (31.1)	Chain Link Fence 3'-0" to 4'-0"
31.2.0 (31.3)	Chain Link Fence 5'-0" to 6'-0"
31.2.1 (31.32)	Chain Link Fence 5'-0" to 6'-0" Intermediate Post
31.3.0 (32.10)	Woven Wire Right-of-Way Fence (Steel Post)
34.1.0 (34.1)	Typical Guardrail Installation
34.1.1 (34.4)	Typical Guardrail Installation at Structures
34.1.2 (34.7)	Typical Guardrail Post Installation In Ledge
34.2.0 (34.33)	Steel Beam Guardrail
34.2.1 (34.32)	Steel Beam Guardrail Details
34.2.2 (34.31)	Steel Beam Guardrail Double Faced Assembly
34.2.3 (34.34)	Steel Beam Guardrail Fixtures
34.2.4 (34.36)	Steel Beam Guardrail Post and Offset Bracket "C" Section
34.2.5 (34.37)	Steel Beam Guardrail Reflectorized Triangular Delineator
34.3.0 (34.26)	Earth Berm for Roadside Barrier Terminal Sections
34.3.1 (34.50)	Guardrail End Section
34.3.2	Terminal End Section (Single Face)
34.3.3 (34.51)	Anchorage Details Approach End Section
34.3.4 (34.6)	Anchorage Details Trailing End Section
34.3.5 (34.11)	Guardrail Connection to Existing End Post Approach End Section
34.3.6 (34.10)	Guardrail Connection to Existing End Post Trailing End Section
34.3.7 (34.8)	Guardrail Connection to Barrier Approach End Section
34.3.8 (34.9)	Guardrail Connection to Barrier Trailing End Section
34.4.0 (34.23)	Steel Backed Timber Guardrail
34.4.1 (34.24)	Steel Backed Timber Guardrail Terminal Section - Type 1
34.4.2 (34.25)	Steel Backed Timber Guardrail Terminal Section - Type 2
40.1.0 (40.1)	Double-Faced Precast Median Barrier
40.2.0 (40.2)	Single-Faced Precast Median Barrier
40.2.1 (40.21)	Single-Faced Precast Median Barrier
40.3.0 (40.3)	Precast Median Barrier Transition Unit

40.4.0 (40.4)	Precast Median Barrier for Light Standard
40.5.0 (40.5)	Precast Median Barrier for Temporary Traffic Control
43.1.0 (43.1)	Cement Concrete Sidewalk
43.2.0 (43.2)	Bituminous Concrete Sidewalk
43.3.0 (43.32)	Wheelchair Ramp
43.3.1 (43.34)	Wheelchair Ramp for Limited Right-of-Way Areas
43.4.0 (43.41)	Driveway Development for 3'-0" Transition Curb
43.4.1 (43.42)	Driveway Development for 6'-0" Transition Curb
43.5.0 (43.50)	Cement Concrete Driveways
47.1.0 (47.0)	Pavement Removal Drop-Off Detail
47.1.1 (47.1)	Transverse Pavement Cut and Match
50.1.0 (50.1)	Large Tree Staking and Planting Detail (2" Caliper and Greater)
50.1.1 (50.3)	Tree Planting on Slope
50.1.2 (50.11)	Paver Detail Around New Trees
50.2.0 (50.2)	Evergreen Tree Planting Detail (4'-0" High and Greater)
50.3.0 (50.4)	Ball and Burlap Shrub Planting Detail
50.3.1 (50.5)	Container Grown Shrub Planting Detail
50.3.2 (50.6)	Shrub Planting on Slope
50.4.0 (50.7)	Perennial Planting Detail
50.5.0 (50.8)	Ornamental Grass Planting Detail
50.6.0 (50.9)	Groundcover Planting Detail
50.7.0 (50.10)	Bulb Planting Detail
51.1.0 (51.1)	Tree Protection Device
51.1.1 (51.3)	Drip Line Tree Protection Device for Existing Trees
51.2.0 (51.2)	Shrub Protection Device
51.3.0 (51.4)	Tree Well
51.4.0 (51.5)	Tree Wall