6.2 DISTRICT-BASED STANDARDS & DETAILS

Campus Design Guidelines & Standard Details

The remainder of this section outlines the campus design guidelines and standard details and should act as a guide to the University and outside consultants in efforts to unify a campus aesthetic through a coordinated standard detail palette.

Moving forward, the campus should follow a district-based standard detail system to achieve the goal of a comprehensive landscape; this system will integrate sustainable modalities and materials that both fit within the desired aesthetic and exemplifies the University’s integrity as a Land, Sea, and Urban Grant institution.

The following standards should be applied to all new developments on campus, as well as being a tool to retro-fit areas that need to be overhauled.

The prescriptions that follow are based on the district boundaries as defined in the Landscape Master Plan and shall not be deviated from without review and approval from the Campus Planning and Design Department (CP&D).

Each detail included herein identifies districts where the detail should be applied, color selections, manufacturer make and model—when specified by the University, and a design narrative which includes any additional relevant information.

Campus Details

The details included are as follows

- Academic Bench (URI2017-1)
- Residential Bench (URI2017-2)
- Bench installed on Concrete with Universal Access (URI2017-3)
- Historic Campus Core District Bench (URI2017-4)
- Granite Dedication Bench (URI2017-5)
- Dedication & Wayfinding Signage (URI2017-6)
- Campus Signage (URI2017-7)
- Street Signage (URI2017-7)
- Light Post Banners (URI2017-8)
- Roadway and Parking Lot Lighting (URI2017-9)
- Non-Historic District Lighting Fixture (URI2017-10)
- Historic District Light Pole (URI2017-11)
- Historic District Light Fixture (URI2017-12)
- Light Base Footing (URI2017-13)
- Curb Ramps/Detectable Warning Pavers (URI2017-14)
- Wheelchair Ramp (URI2017-15)
- Ramp Landing for Narrow Sidewalk (URI2017-16)
- 6-Foot Wide Pedestrian Path (URI2017-17)
- 8-Foot Wide Pedestrian Path (URI2017-18)
- 15-Foot Wide Pedestrian & Vehicular Path (URI2017-19)
- Concrete Control Joint/Expansion Joint (URI2017-20)
- Expansion Joint (URI2017-21)
- Vehicular Granite Curb (URI2017-22)
- Clay Unit Pavers on Concrete Subbase (URI2017-23)
- Clay Unit Pavers on Aggregate Subbase (URI2017-24)
- Stone Dust Paving (URI2017-25)
- Pervious Pavers (URI2017-26)
- Emergency Call Boxes/“Blue Lights” (URI2017-27)
- Pedestrian Access & Vehicular Control Gate (URI2017-28)
- Granite Bollard (URI2017-29)
- Utility Bollard (URI2017-30)
- Pedestrian Bollard & Chain/Cruber Edging (URI2017-31)
- Vehicular Guardrail (URI2017-32)
- Split Rail Fence (URI2017-33)
- Collapsible Bollard (URI2017-34)
- Fieldstone Veneer Seatwall (URI2017-35)
- Fieldstone Seatwall (URI2017-36)
- Residential Screen Fence (URI2017-37)
- Screen Fence (URI2017-38)
- Slatted Screen Fence (URI2017-39)
- Chain Link Fence (URI2017-40)
- Handrails & Guardrails (URI2017-41)
- Ramp Handrail (URI2017-42)
- Bike Rack installed on Concrete (URI2017-43)
- Bus Shelters (URI2017-44)
- Drip Edge (URI2017-45)
- Swale (URI2017-46)
- Erosion Control Compost Filter Sock, CoirLog/ Curlex (URI2017-47)
- Erosion Control Blanket (URI2017-48)
- Erosion Control Silt Sack (URI2017-49)
- Gutter Buddy/EconoCurb Curb Inlet Filters (URI2017-50)
- Thermoplastic Bike Lane Symbol (URI2017-51)
- Thermoplastic Bike “Sharrow” for Shared-use Lanes (URI2017-52)
- URI Thermoplastic Pavement Marker (URI2017-53)
- Crosswalk (URI2017-54)
- Trash Receptacle/Recycling Bins (URI2017-55)
- Dumpster Layout (URI2017-56)
- Fire Hydrants & Post Indicator Valves (URI2017-57)
- Electrical Equipment & Transformers (URI2017-58)
- Grass & Turf Alternative Seeding Details (URI2017-60)
- Tree Planting on Slope (URI2017-61)
- Tree Staking (URI2017-62)
- Evergreen Tree Planting (URI2017-63)
- Shrub Planting Ball & Burlap (URI2017-64)
- Shrub Planting Container Grown (URI2017-65)
- Shrub Planting on Slope (URI2017-66)
- Perennial Planting (URI2017-67)
- Ornamental Grass Planting (URI2017-68)
- Groundcover Planting (URI2017-69)
- Bulb Planting (URI2017-70)
- Tree Protection (URI2017-71)
- Dripline Protection (URI2017-72)
- Shrub Protection (URI2017-73)
- Tree Well (URI2017-74)
6.2 DISTRICT-BASED STANDARDS & DETAILS

Academic Bench (URI2017-1)

Available in 2', 3', 4', 5', 6' (shown), 7', and 8' nominal lengths. Other lengths available upon request.

Can be specified with rose (shown) or without graphic. Custom graphic and/or lettering available upon request.

District:
All districts outside the Historic Campus Core District at academic sites

Color:
Black

Make:
Timberform 2118-6-M

Design Narrative:
• All metal is to be painted black
• Recycled plastic slats
• All steel members coated w/ zinc-rich epoxy then finished w/ polyester-powder coating
**Residential Bench (URI2017-2)**

**District:**
All districts outside the Historic Campus Core District at residential sites

**Color:**
Black

**Make:**
Dumor 118-60 Residential surface mount

**Design Narrative:**
- All steel members coated w/ zinc-rich epoxy then finished w/ polyester powder coating
- All welds to be continuous then ground smooth
- 1/2” x 3-3/4” expansion anchor bolts
District: Campus-wide

Color: Gray

Design Narrative:
- Universally accessible pads are to be used for 50% minimum coverage of the bench installations on campus
Historic Campus Core District Bench (URI2017-4)

**District:**
Historic Campus Core District

**Color:**
Black

**Make:**
All City Play Equipment, Inc.: Series 39, 8-Foot World's Fair Bench; Recycled plastic slats #39-8WF-RPL

**Design Narrative:**
- All steel & iron members coated w/ zinc-rich epoxy then finished w/ polyester powder coating
- All welds to be continuous then ground smooth
- 1/2-inch by 3 3/4-inch expansion anchor bolts
6.2 DISTRICT-BASED STANDARDS & DETAILS

Historic Campus Core District Bench (URI2017-4) continued
Granite Dedication Bench (URI2017-5)

**District:**
All Districts

**Color:**
Woodbury gray

**Make:**
Locally sourced

**Design Narrative:**
- 4-inch thick polished seat with rock face edges
- Plaque to be 2 inches by 10 inches can be mounted on outward facing edge of bench or on polished top
- 18 inches high (top of seat) by 6 feet long
6.2 DISTRICT-BASED STANDARDS & DETAILS

Dedication & Wayfinding Signage (URI2017-6)

District:
All Districts

Color:
Black

Design Narrative:
- Powder-coated steel
Campus Signage (URI2017-7)

District: Campus-wide

Color:
• Reference URI Brand Visual Standards Guide for more details on graphic standards & CP&D standards for building signs, lawn signs and dedications & wayfinding plaque

Design Narrative:
• A family of wayfinding and building signage has been designed for the University and implemented on campus. While the building-mounted identification, in-ground building identification, and pole banner standards are sufficient.

Street Sign (URI2017-7)

District: Campus-wide

Color:
PMS 282 Blue. Font: Trajan

Design Narrative:
• All street signs shall have the same font
• All street signs are to be the same color and size
• URI logo should be considered as an addition to unify the campus
6.2 DISTRICT-BASED STANDARDS & DETAILS

Light Post Banners (URI2017-8)

District:
Historic Core Campus District & Perimeter roads, to include: Upper College, Plains, and Flagg Roads

Color:
Reference URI Brand Visual Standards Guide for more details on graphic standards. (See Appendix)

Design Narrative:
- A family of banner signage has been designed for the University and implemented on campus. All future signage installations should follow these existing standards.
- 6’-8” required for clearance from sidewalk to bottom of banner.
Roadway and Parking Lot Lighting (URI2017-9)

**Color:** Black

**District:**
Large-scale parking lots only

**Color:**
Black

**Make:**
Evolve LED Roadway Lighting:
- ERS2 0 H3E1 5 40 2 BLCK
- ERS1 0 23E1 5 40 1 BLCK
- ERS1 0 23E1 5 40 2 BLCK
- ERS1 0 C3E1 5 40 1 BLCK
- ERS1 0 C3E1 5 40 2 BLCK

**Design Narrative:**
- Fixture to replace Kim roadway lighting standard
- Reference URI Phase 9 cut-sheet for all details and info regarding site/street lighting
### 6.2 DISTRICT-BASED STANDARDS & DETAILS

**Non-Historic District Lighting Fixture (URI2017-10)**

**District:**
All districts outside of the Historic Campus Core District

**Color:** Black

**Make:**
- Model: SP1-STR-Y3-32LED-4K-550-BL
- Pole: Architectural Area Lighting #PR4/4R10-226/10/BLK

**Design Narrative:**
- Reference URI PHASE 9 cut-sheet
- Use mounted arm designated in URI PHASE 9 cut-sheet
**Historic District**

**Light Pole (URI2017-11)**

**Color:** Black

**District:**

Historic Core Campus District & Perimeter roads to include: Upper College, Plains, and Flagg Roads

**Color:** Classic Black

**Make:** Spring City Electrical Manufacturing Co.

**Design Narrative:**

- In pedestrian areas, pole heights shall be 16 feet. Photometric studies to be conducted prior to installation.
- In vehicular areas, pole heights to be 20 feet. Photometric studies to be conducted prior to installation.
- Poles are adaptable to banner arms. Banner arms to be a min. clearance of 6'-8" above finished grade.
6.2 DISTRICT-BASED STANDARDS & DETAILS

Historic District Light Fixture (URI2017-12)

Savannah Genie

---

**District:**
Historic Core Campus District & Perimeter roads to include: Upper College, Plains, and Flagg Roads

**Color:** Classic Black

**Make:** Spring City Electrical Manufacturing Co.: Savannah (ALMSVH), Specifications TBD

**Design Narrative:**
- In pedestrian areas, pole heights to be 16 feet. Photometric studies to be conducted prior to installation.
- In vehicular areas, pole heights to be 20 feet. Photometric studies to be conducted prior to installation.

---

**Luminaire Specifications:***

<table>
<thead>
<tr>
<th>STYLE</th>
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<tbody>
<tr>
<td>HEIGHT</td>
<td>39 1/4&quot;</td>
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<tr>
<td>WIDTH</td>
<td>19 1/8&quot; OCTAGONAL</td>
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<tr>
<td>MATERIAL</td>
<td>CAST ALUMINUM ALLOY ANSI 356 PER A.S.T.M. B26-85</td>
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<td>PANELS</td>
<td>POLYCARBONATE ☐, CLEAR ☐, WHITE ☐, OTHER ☐</td>
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<tr>
<td>FINISH</td>
<td>PRIME PAINT THEN FINISH SHERWIN WILLIAMS ACRLOOR- ON- PLEASE ADVISE COLOR</td>
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<td>SOCKET</td>
<td>MEDIUM BASE ☐, MOGUL BASE ☐, OTHER ☐</td>
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<tr>
<td>PHOTO CONTROL</td>
<td>OPTIONAL - BUTTON TYPE ☐</td>
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District: Campus-wide

Make: Cast-in-place or precase concrete

Design Narrative:
- All parking lot installations shall have a 24-inch reveal over finish grade
- All installation outside of parking areas shall have a 4-inch exposure over finished grade
- Verify all bolt hole patterns and light base sizing before installation
6.2 DISTRICT-BASED STANDARDS & DETAILS

Curb Ramps/Detectable Warning Pavers (URI2017-14)

no scale

**District:**
Campus-wide

**Color:**
Charcoal

**Make:**
- Use Rhode Island Department of Transportation details for curb ramp
- Detectable Warning Pavers: Hanover Architectural Pavers, or approved equal

**Design Narrative:**
- Detectable pavers to be set on a mortar base
- Radius condition as shown above to be case by case basis
- Transition curb needs to be a minimum of 6 feet long
- Use polyurethane sealant at joints
Persons with visual impairments depend upon environmental cues of potential hazards — ambient sounds and physical elements that can be sensed by a cane or texture changes underfoot. Any pedestrian area requiring the use of a detectable warning surface can utilize the Detectable Warning® Paver. The distinctively textured walking surface can help to warn pedestrians of an impending hazard on the route ahead.

<table>
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<th>Stocked Sizes</th>
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<td>$11^{3/4}&quot; \times 11^{3/4}&quot; \times 2&quot;$</td>
<td>Red 15</td>
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<tr>
<td>(297mm x 297mm x 51mm)</td>
<td>Charcoal</td>
</tr>
<tr>
<td>$23^{1/2}&quot; \times 23^{1/2}&quot; \times 2&quot;$</td>
<td>Yellow (M1517)</td>
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<tr>
<td>(597mm x 597mm x 51mm)</td>
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</table>

Please Note: Other sizes and colors are available upon request when quantities permit. Contact a Hanover® Representative for more information.

Detectable® Warning Paver
Truncated Dome Detail & Dimensions
Aligned Dome Format

These drawings give the dimensions of the truncated domes. Please note that the standard thickness of the paver does not include the height of the dome. A paver which is ordered at a 2" thickness will actually measure 2.20" from the bottom of the paver to the top of the dome.
6.2 DISTRICT-BASED STANDARDS & DETAILS

Curb Ramps/Detectable Warning Pavers (URI2017-14) continued

HANOVER® PREST® PAVER COLORS

SLATEFACE® PREST® PAVER COLORS

PLEASE NOTE: The color photos shown to the left are a representation of possible color blend and texture. The actual product may vary. Hanover’s blended colors consist of several shades and will include some solid and some blended pieces.

BlueStone (#M2374)  Tennessee Flagstone (#M2343)

DETECTABLE WARNING® PAVER COLORS

PLEASE NOTE: Tudor® finish is available on special order when quantities permit.

Charcoal  Red-15  Yellow (Matrix #1517)
Wheelchair Ramp (URI2017-15)

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH NO PEDESTRIAN TRAFFIC FROM SIDE STREET.
3. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION SHALL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
5. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
6. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
7. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
8. WHERE THE ROAD PROFILE EXCEEDS 5% THE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18’-0”).
9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3’-0” (GREATER LENGTHS PREFERRED).
11. AN UNOBS/CITED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4’-0” SHALL BE MAINTAINED.

Rhode Island Department of Transportation

Wheelchair Ramp
For Limited Right-Of-Way Areas

REVISIONS

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<th>NO.</th>
<th>BY</th>
<th>DATE</th>
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<td>Dec 2005</td>
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<tr>
<td>2</td>
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R.I. Standard 43.3.1

JUNE 15, 1998

Issue Date

Campus Standards & Details
6.2 DISTRICT-BASED STANDARDS & DETAILS

Ramp Landing for Narrow Sidewalk (URI2017-16)

<table>
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<tr>
<th>ROADWAY PROFILE GRADE</th>
<th>T (FT.)</th>
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<tr>
<td>0.00</td>
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<tr>
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<td>15.0</td>
</tr>
<tr>
<td>&gt; 0.05</td>
<td>18.0</td>
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NOTE:
1. THIS DETAIL MAY BE USED WHEN A PHYSICAL BARRIER IS PRESENT AND THERE IS INSUFFICIENT ROOM TO PROPERLY CONSTRUCT AN ADA ACCESSIBLE RAMP AND LANDING; A TECHNICAL INFEASIBILITY FINDING IS REQUIRED.
2. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
3. THE RAMP-LANDING AND TRANSITIONS SHALL BE FREE OF OBSTRUCTIONS.
4. LOCATION OF THE RAMP-LANDING IS AS SHOWN ON CONTRACT DRAWINGS.
5. AN UNOBSCURED PEDESTRIAN ACCESS ROUTE (PATH OF TRAVEL) WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
6. THE ENTRANCE OF THE RAMP-LANDING SHALL BE FLUSH WITH THE PAVEMENT.
7. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
8. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
9. DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RAMP-LANDING FOR NARROW SIDEWALK

MARCH 31, 2015

R.I. STANDARD 43.3.2
**District:**
Campus-wide

**Color:**
Gray

**Make:**
Cast-in-place concrete

**Design Narrative:**
- Concrete shall have welded wire mesh reinforcement
- Expansion joints shall have dowels (see expansion joint detail)
- All score joints shall be tooled, brushed, and tooled again to create “window pane” aesthetic
- No running bond score joint pattern will be accepted
- All concrete pavement shall be sealed at time of initial installation
- 6-foot wide paths shall be poured to a depth of 5 inches
- Add silane-siloxane sealer to increase salt resistance
- Wire mesh must be three inches clear on all faces of concrete pour
6.2 DISTRICT-BASED STANDARDS & DETAILS

8-Foot Wide Pedestrian Path (URI2017-18)

**District:**
Campus-wide

**Color:**
Gray

**Make:**
Cast-in-place concrete

**Design Narrative:**
- Concrete shall have welded wire mesh reinforcement
- Expansion joints shall have dowels (see expansion joint detail)
- All score joints shall be tooled brushed and tooled again to create “window pane” aesthetic
- No running bond score joint pattern will be accepted
- All concrete pavement shall be sealed at time of initial installation
- 8-Foot wide pedestrian paths shall be poured to a depth of 9 inches
- Add silane-siloxane sealer to increase salt resistance
- Rebar must have 3 inches clear on all faces of concrete pour
15-Foot Wide Pedestrian & Vehicular Path (URI2017-19)

**District:**
Campus-wide

**Color:**
Gray

**Make:**
Cast-in-place concrete

**Design Narrative:**
- 15-foot wide concrete shall have #4 rebar reinforcement
- 15-foot wide paths shall be poured to a depth of 9 inches
- Expansion joints shall have dowels (see expansion joint detail)
- All score joints shall be tooled brushed and tooled again to create “window pane” aesthetic
- No running bond score joint pattern will be accepted
- All concrete pavement shall be sealed at time of initial installation
- 5 feet wide reinforced turf to be irrigated until grass has established
- Rebar must have three inches clear on all faces of concrete pour
- Add silane-silioxane sealer to increase salt resistance
District: Campus-wide

Design Narrative:
- Expansion joints should be installed at all building walls, benches, and anywhere a vertical element abuts concrete pavement
- 9-inch thick slab shall have expansion designated by civil
- 5-inch thick slab shall have expansion joints every 20 feet minimum
- 5 feet max. distance for contraction joint
District:
Campus-wide

Design Narrative:
- Expansion joints should be installed at all building walls, benches, and anywhere a vertical element abuts concrete pavement
- 9-inch thick slab shall have expansion designated by civil
- 5-inch thick slab shall have expansion joints every 20 feet minimum
- 5 feet max. distance for contraction joint
- Sealant for joints shall be fast-curing self-leveling polyurethane
6.2 DISTRICT-BASED STANDARDS & DETAILS

Vehicular Granite Curb (URI2017-22)

**District:**
Campus-wide

**Color:**
Gray: Chelmsford Gray, or approved equal

**Make:**
Locally-sourced

**Design Narrative:**
- Granite curbs for vehicular use should maintain a 6-inch reveal
Clay Unit Pavers on Concrete Subbase (URI2017-23)

District:
Case-by-case basis

Color:
Designated on a case-by-case basis

Make:
TBD

Design Narrative:
• Coursing patterns and colors to be approved by CP&D
6.2 DISTRICT-BASED STANDARDS & DETAILS

Clay Unit Pavers on Aggregate Subbase (URI2017-24)

**District:**
Case-by-case basis

**Color:**
Designated on a case-by-case basis

**Make:**
TBD

**Design Narrative:**
- Coursing patterns and colors to be approved by CP&D
**Stone Dust Paving (URI2017-25)**

- **District:** Case-by-case basis
- **Color:** Gray-blue
- **Make:** Locally-sourced
- **Design Narrative:**
  - Stone dust treatment to be considered outside of high-use areas, away from main pathways, sloped pathways, and entrances to buildings
6.2 DISTRICT-BASED STANDARDS & DETAILS

Pervious Pavers (URI2017-26)

- Permeable clay pavers should be used sparingly and in approved locations
- Where poor soil exists, permeable pavers shall be installed with an underdrain

**District:**
Case-by-case basis

**Color:**
TBD

**Make:**
TBD

**Design Narrative:**
- Permeable clay pavers should be used sparingly and in approved locations
- Where poor soil exists, permeable pavers shall be installed with an underdrain
Emergency Call Boxes/“Blue Lights” (URI2017-27)

*Emergency lights shall always be universally accessible as seen in image on the right

**District:**
Campus-wide

**Color:**
N/A

**Design Narrative:**
- Provide universal access
6.2 DISTRICT-BASED STANDARDS & DETAILS

Pedestrian Access & Vehicular Control Gate (URI2017-28)

**District:**
Campus-wide

**Color:**
Metal finish to be black. Granite to be Woodbury gray, or approved equal, w/ thermal & rock face finish

**Make:**
Locally-sourced

**Design Narrative:**
- Gate to be galvanized steel and powder-coated RAL 9004 signal black.
- All gates to have self closing mechanisms
- To be considered at all locations where a 15-foot walkway meets a road
Granite Bollard (URI2017-29)

**District:**
Campus-wide

**Color:**
Granite to be Woodbury gray, or approved equal, w/ thermal & rock face finish.

**Make:**
Locally-sourced

**Design Narrative:**
- All branding to be etched in stone and painted w/ black lithochrome paint
- All branding to be in accordance with URI style guide
- Granite bollards to be selectively located
6.2 DISTRICT-BASED STANDARDS & DETAILS

Utility Bollard (URI2017-30)

District: Case-by-case basis
(USE SPARINGLY TO PROTECT DUMPSTER ENCLOSURES TRANSFORMERS OR OTHER UTILITIES ONLY)

Color: Black

Design Narrative:
- Installations must be approved by CP&D
- Use removable bollards w/ sleeve as needed

Notes:
1. BOLLARD HEIGHT AT DUMPSTERS SHALL BE 48"; ALL OTHER AREAS SHALL BE 36".
2. BOLLARD DIAMETER AT DUMPSTERS SHALL BE 6" OUTSIDE DIAMETER, ALL OTHER AREAS SHALL BE 6" OUTSIDE DIAMETER.
Pedestrian Bollard & Chain/Corners Edging (URI2017-31)

District:
Historic Campus Core District

Color: Black

Make: Snug Cottage Imports

Design Narrative:
- All installations shall be in concrete walkways (do not install in turf)
- Use non-shrink grout
- Allow 6 inches minimum buffer from concrete walk edge
- Chains shall be used on a case-by-case basis

*NOTES:
POST: 48" BOSTON GARDEN CAST ALUMINUM POST MODEL # 5200-48P
CHAIN: HOT DIPPED GALVANIZED HEAVY DUTY LANDSCAPE CHAIN (1/4") MODEL # 3429-21P
POST & CHAIN TO RECEIVE POLYESTER POWDERCOAT FINISH, COLOR: BLACK
AS MANUFACTURED BY SNUG COTTAGE IMPORTS, PORT HURON, MI 800-637-5427, OR APPROVED EQUAL
6.2 DISTRICT-BASED STANDARDS & DETAILS

Vehicular Guardrail (URI2017-32)

District:
Case-by-case basis (USE SPARINGLY)

Color:
Guardrail to be pressure-treated with ACQ (NO PAINT)

Design Narrative:
• Installations must be approved by the CP&D office
• Vehicular guardrails to be used to protect slopes
**District:**
Case-by-case basis, excluding Historic Campus Core District

**Color:**
Natural wood

**Make:**
Locally sourced

**Design Narrative:**
- Split rail fences to be used to discourage parking on the side of roads
- Fences shall be located a minimum of 4 feet off shoulder of road
- All fence installations shall have a natural finish
- Posts to be made from black locust and rails to be made from cedar
- Turf preferred under split rail fence
6.2 DISTRICT-BASED STANDARDS & DETAILS

Collapsible Bollard (URI2017-34)

Patented fire hydrant wrench operation works with any standard fire hydrant wrench by turning the nut 1/4 turn to unlock and lower the bollard (1 3/8" nut standard).

MAXIFORCE Collapsible Bollard
Standard body, wrench operated, standard style 1 head, simple base
AHD approved for use in fire lanes per International Fire Code (IFC) 503

Patented break-away design allows for instant emergency access without a key. Unit can be pushed over with the bumper of a vehicle.

Flush surface when bollard is removed. Leaves no tripping hazard and won’t catch snow plows or other maintenance equipment.

3" x 6 3/4" Top Plate
3" x 6" Tube
Simple Base

District: Campus wide
Color: TBD

Make: Maxiforce Traffic Control Bollards

Design Narrative:
- MCSW-SSI-S w/P150
- Black (w/ reflective black tape)
Fieldstone Veneer Seatwall (URI2017-35)

**District:** Historic District & Residential Life District

**Color:** Gray

**Make:** Locally-sourced

**Design Narrative:**
- Use native squared off veneer
- Mowing ledge to be concrete
6.2 DISTRICT-BASED STANDARDS & DETAILS

Fieldstone Seatwall (URI2017-36)

**District:** Historic Campus Core District & Residential Life District

**Color:** Gray

**Make:** Locally-sourced

**Design Narrative:**
- Capstones shall be among largest stones in wall construction
- Use native squared off fieldstone boulders
- Mowing ledge to be concrete
Residential Screen Fence (URI2017-37)

District: Residential Life District
Make: Locally-sourced

NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS.
2. ALL LUMBER TO BE NORTHERN WHITE CEDAR, SMOOTH SAWN TO THE DIMENSIONS SHOWN.
3. ALL NAILS TO BE ALUMINUM SCREW NAILS.
4. ALL HARDWARE TO BE HOT DIP GALVANIZED.
5. STEP FENCE AT POSTS FOR CHANGES IN GRADE, RAILS TO BE LEVEL ACROSS.
6. ALL FENCE POSTS SHALL BE GALVANIZED AND PAINTED TO MATCH COLOR OF WOOD PANELS.
7. SHIP LAP BOARDS TO BE FREE OF CRACKS WITH MINIMUM OF KNOTS.
8. FENCE TO BE SOLID STAIN, FLAT BLACK.
6.2 DISTRICT-BASED STANDARDS & DETAILS

Screen Fence (URI2017-38)

District: Case-by-case basis

Color: Black

Design Narrative:
- Screen fencing and walls used for screening shall fall within the same aesthetic concept throughout campus gateways. Gate shall also be of the same aesthetic, i.e. steel grate panel fences should have steel grate panel doors.
- The use of evergreen plantings as screening should be avoided.
- Vine planting for additional screening shall be approved on a case-by-case basis, and approved by the CP&D office prior installation.
**District:** Case-by-case basis

**Color:** Black

**Make:** Ametco Manufacturing Corporation

**Design Narrative:**
- Screen fencing and walls used for screening shall fall within the same aesthetic concept throughout each job perimeter.
- Use of slatted fence to be considered for utility areas, unsightly areas, and privacy concerns.
6.2 DISTRICT-BASED STANDARDS & DETAILS

Chain Link Fence (URI2017-40)

District: Athletic District & Service District Only
(USE SPARINGLY OR FOR TEMPORARY APPLICATIONS)

Color: Black

Design Narrative:
- CLF to be coated black vinyl
- Footings to be a min. 4 feet deep
- 3-1/2-inch diamond
- Top and bottom rail required
- Hot dipped galvanized, galvanize after weaving
- Wire to be a minimum 11-1/2 gauge
Handrails & Guardrails (URI2017-41)

District:
Case-by-case basis
- Black railings in Historic Campus Core, Mall, and Residential Life Districts. Stainless steel rails in all other districts.

Color:
Black/Stainless

Design Narrative:
- Guardrails are required in areas where fall heights exceed 30 inches within 24 inches of a walking path, per International Building Code (IBC). Guardrails must be installed at a minimum height of 42 inches.
- 4-Inch max. on center baluster spacing per IBC
- All handrails must adhere to ADA Accessibility Guidelines and International Building Code requirements.
- All core holes shall be a minimum of 3 inches off edge of concrete.
6.2 DISTRICT-BASED STANDARDS & DETAILS

Ramp Handrail (URI2017-42)

NOTE: WHEN ALIGNING RAMP WITH EXISTING WALKS THAT ARE WIDER THAN THE REQUIRED MINIMUM, INCREASE RAMP WIDTH TO MATCH WIDTH OF EXISTING WALK.

IF ALIGNING WITH EXISTING WALKS THAT ARE NARROWER THAN THE REQUIRED MINIMUM, CONTACT CP&D OFFICE TO COORDINATE MERGING OF WALKS WITH RAMP.

HANDRAILS TO BE GALVANIZED AND POWDER COATED BLACK.

ALL CORE DRILL HOLES TO BE A MIN. 3" FROM EDGE OF PATH.

District: Campus-wide

Color: Black

Design Narrative:
- ADA Accessibility Guidelines requires a clearance width of 42 inches on ramps.
- It is recommended that the minimum standard for the campus be 60 inches to account for maintenance concerns and to allow passing space.
- ADA Accessibility Guidelines are to be followed in regard to ramp length, maximum change in gradient, maximum gradient, and landing dimensions.
Bike Rack installed on Concrete (URI2017-43)

**District:** Campus-wide

**Color:** Black

**Make:** Black Rack BRP model # BLL-02-EM Raven Galvanized metal w/ powder coat

**Design Narrative:**
- Concrete shall be the only surface material bike racks are to be mounted on
- No surface mounting will be allowed
District:  
Campus-wide, RIPTA bus stop locations

Make:  
Brasco-ECLIPSE-Arch

Design Narrative:  
- Roof Style: Arch  
- Standard Widths: 8 feet, 10 feet, 14 feet, 16 feet; Review with CP&D  
- Color: Black

Options:  
- Solar Lighting Package (Flex or Rigid Panel)  
- Escutcheon Covers  
- Security Lighting (A/C or Solar-Powered)  
- 4-foot x 6-foot Advertising Display (Lit or Unlit, A/C or Solar-Powered)  
- 24-inch x 36-inch Wall Mounted Map Case  
- Accessories: Bench, Leaning rail
Campus-wide

Gray rounded stone

Locally-sourced

Consider underdrains where soil conditions prohibit proper drainage

Edging shall be galvanized steel

**District:** Campus-wide

**Color:** Gray rounded stone

**Make:** Locally-sourced

**Design Narrative:**
- Consider underdrains where soil conditions prohibit proper drainage
- Edging shall be galvanized steel

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**Swale (URI2017-46)**

**District:** Campus-wide

**Design Narrative:**
- Drainage patterns for areas of proposed swales shall be thoroughly studied before widths and depths are established
- 3:1 maximum side slopes shall be used in all swale design

**Notes:**
1. Refer to specification for grass seed mix species and seeding rate.

---

**MATERIAL VARIES SEE PLAN**

**BUILDING**

**WASHED ROUND STONE COLOR: GRAY**

**3/16" X 4" STEEL EDGING**

**GEOTEXTILE FABRIC**

**FREE DRAINING PROCESSED GRAVEL**

**EROSION CONTROL FABRIC WITH GRASS SEED MIX UP TO DISTURBED EDGES.**

**SWALE SIDE SLOPE 3:1 (H:V)**

**6" MANUFACTURED SOIL LAYER**

**EXISTING SUBGRADE**
6.2 DISTRICT-BASED STANDARDS & DETAILS

Erosion Control Compost Filter Sock, Coir\Log\ Curlex (URI2017-47)

District:
Campus-wide

Make:
Filtrexx

Design Narrative:
- Use as silt fence replacement, site perimeters, on slopes with erosion risks, along toe of slopes, around drains or inlets.
- Mesh to be biodegradable. Photodegradable shall only be considered when the filter sock is removed immediately after project completion.
- Use in concert with typical erosion control fencing
Erosion Control Blanket (URI2017-48)

**District:**
Campus-wide

**Make:**
Curlex Blanket

**Design Narrative:**
- Protect erodible slopes
- Use biodegradable staples
- Install beyond the toe of slopes and erodible slopes
- Use in concert with other erosion control
- Erosion control blanket shall be biodegradable. Photodegradable shall only be considered when the filter sock is removed immediately after project completion.
6.2 DISTRICT-BASED STANDARDS & DETAILS

Erosion Control Silt Sack (URI2017-49)

**District:**
Campus-wide

**Color:** N/A

**Make:**
ACF Environmental or approved equal

**Design Narrative:**
- Silt sacks are to be used as part of a multi-step approach for reducing sediments into the drainage system

**Dimensions:**
LENGTH = L
WIDTH = W
DEPTH = D
Gutter Buddy/EconoCurb Curb Inlet Filters (URI2017-50)

**District:**
Campus-wide

**Color:** N/A

**Make:**
GutterBuddy or approved equal

**Design Narrative:**
- GutterBuddies and EconoCurb are to be used as a multi-step approach for reducing sediments into the drainage system during construction
6.2 DISTRICT-BASED STANDARDS & DETAILS

Thermoplastic Bike Lane Symbol (URI2017-51)

**District:** Campus-wide, streetscapes

**Color:**
URI blue w/ white graphic refer to detail for values

**Make:**
Ennis-Flint, or approved equal

**Design Narrative:**
- Bike lane designation shall be used in coordination with road diet recommendations.
- The material shall be a resilient preformed thermoplastic product containing a minimum thirty percent (30%) intermix of anti-skid/anti-slip elements and where the top surface contains anti-skid/anti-slip elements. These anti-skid/anti-slip elements must have a minimum hardness of 8.
- The material shall be resistant to the detrimental effects of motor fuels, antifreeze, lubricants, hydraulic fluids, etc.

**NOTES:**
- FOLLOW MUTCD GUIDELINES FOR PAVEMENT MARKING USE

**COLORED BIKE LANE TREATMENT WITH ANTI SKID ELEMENT BE APPLIED THE LENGTH OF INTENDED SHARED ROUTE**

**RETROLECTIVE BIKE SYMBOL (WHITE)**

**PLAN VIEW**
District: Campus-wide, streetscapes

Color:
URI blue w/ white graphic refer to detail for values

Make:
Ennis-Flint, or approved equal

Design Narrative:
- The material shall be a resilient preformed thermoplastic product containing a minimum thirty percent (30%) intermix of anti-skid/anti-slip elements and where the top surface contains anti-skid/anti-slip elements. These anti-skid/anti-slip elements must have a minimum hardness of 8.
- The material shall be resistant to the detrimental effects of motor fuels, antifreeze, lubricants, hydraulic fluids, etc
6.2 DISTRICT-BASED STANDARDS & DETAILS

URI Thermoplastic Pavement Marker (URI2017-53)

URI LOGO
TO BE DETERMINED
(IN PROCESS OF BEING DEVELOPED)

District:
Campus-wide, streetscapes
(TO BE USED SPARINGLY FOR CAMPUS BRANDING)

Color:
URI Blue- Refer to detail for values

Make:
Ennis-Flint, or approved equal

Design Narrative:
- Custom graphic: A URI logo should be considered as a placemaking tool and used to reinforce roadways on the peripheries of campus along with emphasizing road intersections within the campus road network. the logo should be graphic-in-nature, simple and clear.
- The material shall be a resilient preformed thermoplastic product containing a minimum thirty percent (30%) intermix of anti-skid/anti-slip elements and where the top surface contains anti-skid/anti-slip elements. These anti-skid/anti-slip elements must have a minimum hardness of 8.
- The material shall be resistant to the detrimental effects of motor fuels, antifreeze, lubricants, hydraulic fluids, etc.
- The material shall be capable of being applied on bituminous and/or portland cement concrete pavements by the use of a handheld heat torch, infrared heater, or a blue-flame radiant heater.
- To be approved by CP&D
Crosswalk (URI2017-54)

District:
Campus-wide, streetscapes

Color:
White

Make:
Thermoplastic or painted

Design Narrative:
- Increase lighting levels at all crosswalks
- Explore raised crosswalks at certain locations around campus
- Follow MUTCD/RIDOT guidelines for pavement marking use
6.2 DISTRICT-BASED STANDARDS & DETAILS

Trash Receptacle/Recycling Bins (URI2017-55)

District: Campus-wide

Color: Black, Blue color sign band on outside ring

Make: Victor Stanley, Inc. Model: Ironsides Bethesda Model SD42- 36 gallon capacity

Design Narrative:
- Provide universal access to all trash receptacles

District: Campus-wide

Color: Blue

Make: Master Cart Model #60204 95 US gal/360L

Design Narrative:
- Rolling carts shall be laid out in an organized manner
District: Campus-wide

Color:
To be painted semi-gloss gray to match ICI #586 “Mansard Stone”. No signage permitted on dumpsters

Design Narrative:
- In all applications, proximity to buildings and arraignments of dumpsters shall be carefully thought-out
- Screen where appropriate
- Service area by Edwards & Swan Halls provides the best example of proper layout and screening
- Dumpsters shall be 8 cubic yard front-loading and slanted.
Legend

Dumpster
Fraternity Circle dumpsters are not part of the URI dumpster program

Existing Dumpster Locations
6.2 DISTRICT-BASED STANDARDS & DETAILS
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6.2 DISTRICT-BASED STANDARDS & DETAILS

Fire Hydrants & Post Indicator Valves (URI2017-57)

**District:**
Campus-wide

**Color:**
Hydrant to be Red-PIV to be stainless steel

**Design Narrative:**
- Protect turf and ground plane materials from erosion when hydrant is flushed.
District:
Campus-wide

Color:
Black or green

Make:
TBD

Design Narrative:
- Larger units shall be green or black (To be determined based upon technical and aesthetic considerations.)
- Avoid using plant material for screening utility equipment, which highlights the equipment rather than screening it, and creates maintenance and access issues.
- Utility equipment should be assessed for size and location equipment to determine if screening is required
6.2 DISTRICT-BASED STANDARDS & DETAILS

Grass & Turf Alternative Seeding Details (URI2017-60)

**Grass Seeding**

**District:** Campus-wide

**Design Narrative:**
- Till in hydroseed
- Decompackt soil before application

**Turf Alternative Seeding**

**District:** Campus-wide, exclusive of Historic Campus Core District

**Design Narrative:**
- Till in hydroseed
- Decompackt soil before application/conversions of extensive turf areas to meadow plantings should be considered in all districts except the Historic Campus Core District.
- Areas of conversion shall be thoroughly studied and proposed locations shall be submitted, reviewed, and approved by the CP&D office.
- Meadow areas shall not use topsoil appropriate for lawns; meadow soil mixture to be designed specifically for meadow mix.
6.2 DISTRICT-BASED STANDARDS & DETAILS

(OR NATIVE SOILS IF SUITABLE)

KEEP MULCH AWAY FROM TRUNK AND ROOT FLARE (WINDY AREAS ONLY)

REMOVE ALL NURSERY PROTECTION DEVICES PRIOR TO PLANTING

3" PINEBARK MULCH (UNLESS OTHERWISE NOTED ON PLANS)

MOUND WITH EXCAVATED SOIL TO 3" ABOVE FINISHED GRADE

PLANT TREE AT DEPTH EQUAL TO 2" LESS THAN THE DISTANCE FROM BOTTOM OF ROOTBALL TO ROOT COLLAR

CUT AND REMOVE BURLAP AND WIRE BASKET FROM TOP 1/3 OF ROOTBALL

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 1.08 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR STAKING DETAIL SEE STD. 50.1.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

TREE PLANTING ON SLOPE

R.I. STANDARD

50.1.1

JUNE 15, 1998

ISSUE DATE

Tree Planting on Slope (URI2017-61)
GUYING DETAIL

3" PINEBARK MULCH (UNLESS OTHERWISE NOTED ON PLANS)

BACKFILL WITH LOAM

2" x 2" HARDWOOD STAKES (TYP.)
HEIGHT VARIES
DRIVE 3'-0" INTO GROUND OUTSIDE OF ROOTBALL

ROOTBALL ON UNDISTURBED SUBGRADE

NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

LARGE TREE STAKING AND PLANTING DETAIL
(2" CALIPER AND GREATER)

R.I. STANDARD 50.1.0

JUNE 15, 1998
395

CAMPUS STANDARDS & DETAILS

GUYING DETAIL

KNOT
GUY WEBBING

DO NOT CUT LEADER

TREE PER PLAN

REMOVE ALL DEADWOOD
(DO NOT REMOVE ANY OTHER VEGETATION)

GUY WERRING
ATTACHED NO HIGHER
THAN 1/2 AND NO
LOWER THAN 1/3 THE
HEIGHT OF THE TREE

3" PINEBARK MULCH
(UNLESS OTHERWISE
NOTED ON PLANS)

MOUND WITH
EXCAVATED SOIL
TO 3" ABOVE
FINISHED GRADE

2"X2" HARDWOOD
STAKES (TYP.)
HEIGHT VARIES
DRIVE 3'-0" INTO
GROUND OUTSIDE
OF PLANTING PIT

BACKFILL WITH LOAM

ROOTBALL ON
UNDISTURBED
SUBGRADE

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

EVERGREEN TREE PLANTING DETAIL
(4'-0" HIGH AND GREATER)

JUNE 15, 1998

CAMPUS STANDARDS & DETAILS 395
SHRUB PER PLAN

REMOVE ALL DEADWOOD
(DO NOT REMOVE
ANY OTHER VEGETATION)

3" PINEBARK MULCH
(UNLESS OTHERWISE
NOTED ON PLANS)

MOUND WITH
EXCAVATED SOIL
TO 3" ABOVE
FINISHED GRADE

BACKFILL
WITH LOAM

PLANT SHRUB AT
DEPTH EQUAL TO
2" LESS THAN THE
DISTANCE FROM
BOTTOM OF
ROOTBALL TO
ROOT COLLAR

ROOTBALL ON
UNDISTURBED
SUBGRADE

CUT AND REMOVE
BURLAP FROM TOP
1/3 OF ROOTBALL

2 x ROOTBALL
DIAMETER (MIN.)

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.
Shrub Planting Container Grown (URI2017-65)

SHRUB PER PLAN

REMOVE ALL DEADWOOD
(DO NOT REMOVE
ANY OTHER VEGETATION)

BACKFILL
WITH LOAM

MOUND WITH
EXCAVATED SOIL
TO 3" ABOVE
FINISHED GRADE

3" PINEBARK MULCH
(UNLESS OTHERWISE
NOTED ON PLANS)

GENTLY HAND LOOSEN
SOIL FROM AROUND
ROOTBALL WITHOUT
SEVERING MAIN ROOTS

SPREAD ROOTS OVER
UNDISTURBED SUBGRADE

2 x ROOTBALL
DIAMETER (MIN.)

PLANT SHRUB AT
DEPTH EQUAL TO
2" LESS THAN THE
DISTANCE FROM
BOTTOM OF THE
ROOTBALL TO THE
ROOT COLLAR

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.
Shrub Planting on Slope (URI2017-66)

SHRUB PER PLAN

REMOVE ALL DEADWOOD
(DO NOT REMOVE
ANY OTHER VEGETATION)

3" PINEBARK MULCH
(UNLESS OTHERWISE
NOTED ON PLANS)

MOUND WITH
EXCAVATED SOIL
TO 3" ABOVE
FINISHED GRADE

EXISTING
GROUND

R. (MAX.)

BACKFILL
WITH LOAM

ROOTBALL ON
UNDISTURBED
SUBGRADE

2 x ROOTBALL
DIAMETER (MIN.)

PLANT SHRUB AT
DEPTH EQUAL TO
2" LESS THAN THE
DISTANCE FROM
BOTTOM OF
ROOTBALL TO
ROOT COLLAR

CUT AND REMOVE
BURLAP FROM TOP
1/3 OF ROOTBALL

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.
Perennial Planting (URI2017-67)

Gently hand loosen soil from around rootball without severing main roots.

Backfill with loam.

Spread roots over undisturbed subgrade.

2" pinebark mulch (unless otherwise noted on plans).

Mound with excavated soil to 3" above finished grade.

Plant perennial at depth equal to that which the plant was grown in the nursery.

NOTE: Shall be in accordance with Section L.06 of the R.I. Standard Specifications.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PERENNIAL PLANTING DETAIL

R.I. STANDARD 50.4.0

JUNE 15, 1998

ISSUE DATE
Ornamental Grass Planting (URI2017-68)

ORNAMENTAL GRASS PER PLAN

GENTLY HAND LOOSEN SOIL FROM AROUND ROOTBALL WITHOUT SEVERING MAIN ROOTS

BACKFILL WITH LOAM

2" PINEBARK MULCH (UNLESS OTHERWISE NOTED ON PLANS)

MOUND WITH EXCAVATED SOIL TO 3" ABOVE FINISHED GRADE

SPREAD ROOTS OVER UNDISTURBED SUBGRADE

PLANT GRASS AT DEPTH EQUAL TO THAT WHICH THE PLANT WAS GROWN IN THE NURSERY

2 x ROOTBALL DIAMETER (MIN.)

NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

ORNAMENTAL GRASS PLANTING DETAIL

R.I. STANDARD 50.5.0

REVISIONS

NO. BY DATE

JUNE 15, 1998

Signed by Chief Engineer
Signed by Chief Design Engineer

Issue Date
PLANT GROUND COVER AT DEPTH EQUAL TO THAT WHICH IT WAS GROWN IN THE NURSERY

BACKFILL WITH LOAM

SPREAD ROOTS OVER UNDISTURBED SUBGRADE

EXCAVATED SOIL TO 3" ABOVE FINISHED GRADE

GENTLY HAND LOOSEN SOIL FROM AROUND ROOTBALL WITHOUT SEVERING MAIN ROOTS

GROUND COVER PER PLAN

2" PINEBARK MULCH (UNLESS OTHERWISE NOTED ON PLANS)

SEE PLAN FOR PLANTING BED LAYOUT

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.
Bulb Planting (URI2017-70)

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.
2. BY HAND, SPREAD BONE MEAL OVER ENTIRE PLANTING BED AT A RATE NOT TO EXCEED 1/2 LB. PER 25 SQ. FT.
Tree Protection (URI2017-71)

SINGLE STRAND
9 GAUGE WIRE
OR 1/2" STRAPPING

WOOD FRAMING
2"X2" TO 2"X6"
NOMINAL LUMBER

4" (MAX.)

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

TREE PROTECTION DEVICE

R.I. STANDARD
51.1.0

JUNE 15, 1998

ISSUE DATE
Dripline Protection (URI2017-72)

1'-0" Clearance Around Evergreen Trees

6'-0" Standard Steel Post

2'-0" (MIN.)

Evergreen Tree

1'-0" Clearance Around Deciduous Tree

6'-0" Standard Steel Post

2'-0" (MIN.)

Deciduous Tree

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE R.I. STANDARD SPECIFICATIONS.
Shrub Protection (URI2017-73)

NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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SHRUB PROTECTION DEVICE

R.I. STANDARD 51.2.0

JUNE 15, 1998

ISSUE DATE
Tree Well (URI2017-74)

8'-0" (MIN.)

4'-0" (MIN.)

6" (MAX.) EXCAVATION FOR WELL FOOTING

EXISTING GRADE

PARTIAL TREE WELL

3" GREY SCHEDULE 80 PVC PIPE 3'-0" O.C.

6 C.F. FILTER STONE WRAPPED IN FILTER FABRIC

6" (MAX.)

CIRCUMFERENTIAL TREE WELL

3" GREY SCHEDULE 80 PVC PIPE 3'-0" O.C.

6 C.F. FILTER STONE WRAPPED IN FILTER FABRIC

FOOT PRINT FOR CONTINUATION OF WALL

EXISTING GRADE

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.13 OF THE R.I. STANDARD SPECIFICATIONS.