



# **CITY OF TUCKER**

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## **CITY STANDARDS GUIDEBOOK**

**Landscape and Site Elements  
January 2025**

# ACKNOWLEDGMENTS

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## CITY OF TUCKER

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The City of Tucker and the Consultant Team would like to thank every member of the community who took the time to answer surveys, attend meetings, and provide their feedback.

## CONSULTANT TEAM

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An aerial photograph of a city at sunset. The sky is filled with warm, orange and yellow clouds. In the distance, a city skyline is visible against the horizon. The foreground shows a mix of green trees, a road, and some buildings, including a church with a prominent steeple.

# 01

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## INTRODUCTION



# WHAT IS THIS GUIDEBOOK?

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## OVERVIEW

This Landscape and Site Elements Guidebook is intended to be a comprehensive guide for landscape, furnishings, and other site elements for public spaces in the City of Tucker. Tucker is home to over 37,000 residents and attracts thousands of visitors each year who come to enjoy its festivals, events, and support local businesses. A coordinated look for public spaces within the public realm will reinforce Tucker's brand while establishing a sense of place.

## LANDSCAPE & SITE ELEMENTS GOALS

- Promote consistent streetscape design
- Enhance environmental resiliency
- Promote community pride with high quality design
- Foster an enjoyable pedestrian experience

## THE PURPOSE OF THIS GUIDEBOOK

This guidebook will provide information for the following site and streetscape elements:

- **Materials:** Recommendations for walkways, site walls, and hardscape materials.
- **Street Lighting:** A range of lighting options from street lights to accent lighting.
- **Street Furniture:** Comprehensive guide to various types of street furniture such as bike racks, benches, bollards, and planters.
- **Streetscape Elements:** Long-term site elements integral to streetscapes including fencing, site walls, crosswalks, ADA ramps, curbs, traffic signs, manhole covers, and bus shelters.
- **Sanitation Amenities:** Decorative options for trash receptacles and dumpster enclosures.
- **Plant Materials:** Recommendations for trees, shrubs, grasses & vines, and perennials.

- **Green Infrastructure:** Information on bioretention systems, green roofs, pervious pavement, LED lighting, water harvesting and reuse, energy and material resourcing.

# APPLICATION

## HOW TO USE THIS DOCUMENT

The City of Tucker should use the Landscape and Site Elements Guidebook for the planning, design, and implementation of new streetscapes and common areas within the public realm of the community. The guidebook will focus on site elements in the public right-of-way and publicly owned land, but it can also be used by private property owners and developers when consistency is needed or desired.

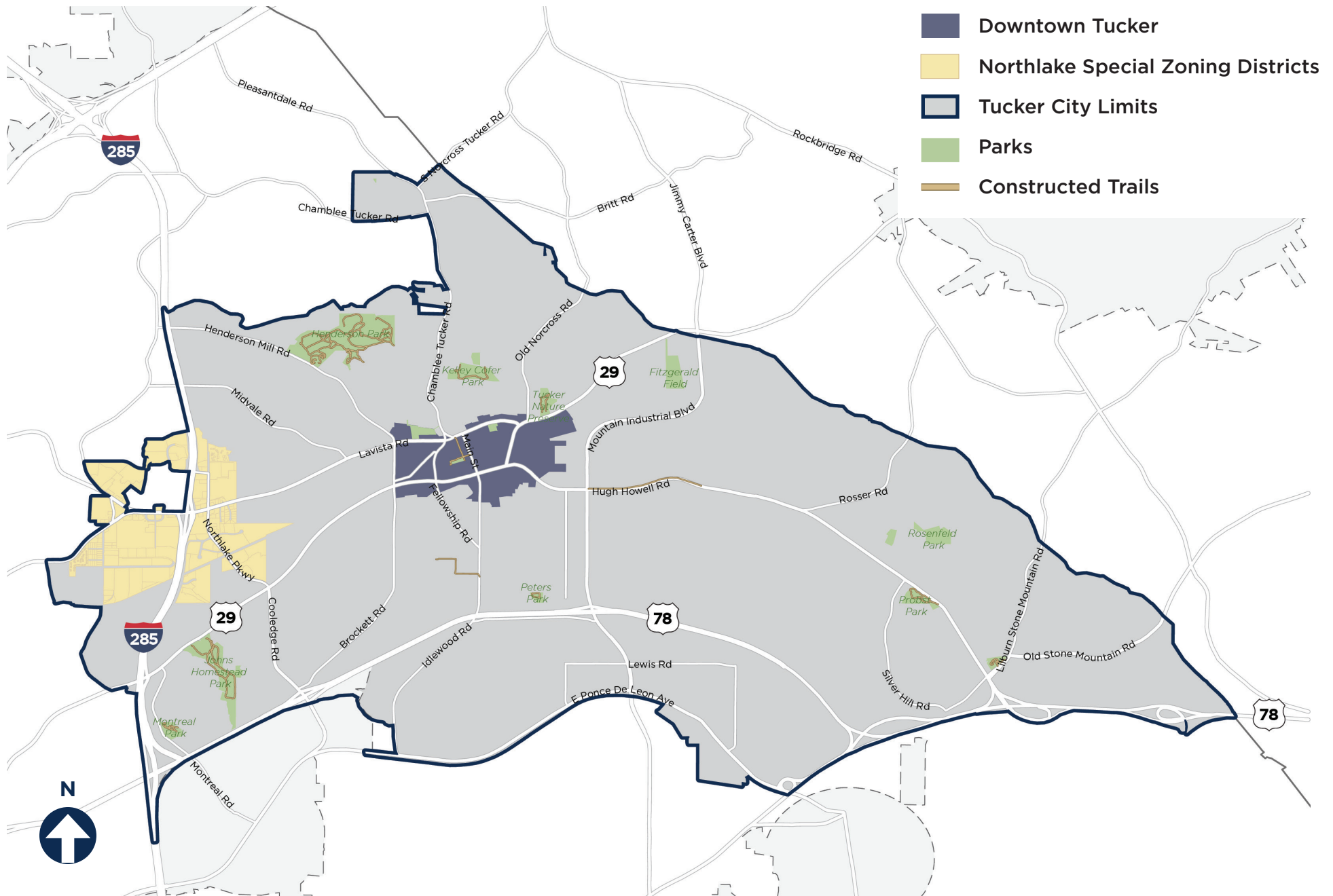
This document should also be used by the Tucker-Northlake CID, Tucker Summit CID, Georgia Department of Transportation (GDOT) and other agencies when work is to occur in City of Tucker right-of-way. However, this guidebook is intended to be used as a “living” document that will allow for changes and flexibility as conditions and funding opportunities change.

Throughout this guidebook, options for different elements are presented:

- Option A is the standard to be applied in all public rights-of-way.
- Options B, C, etc. are alternatives that can be used for signature public spaces or in specific districts, like Downtown or Northlake. The map on the right shows the boundaries of Downtown Tucker and the Northlake special zoning districts, where those options would apply.

**Disclaimer:** Nothing in this guidebook is intended to preclude deviation from standards when challenges arise from limited right-of-way, utility placement, topographical challenges, etc.

# DOWNTOWN TUCKER















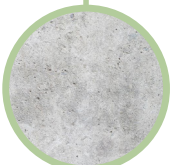
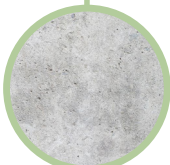
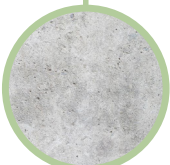
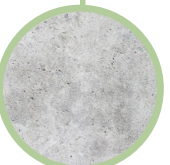




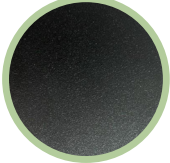


02

## LANDSCAPE PATTERNS

# MATERIALS

The following materials are recommended for site walls, sidewalks/ walkways, plazas/patios, and other similar locations within the public realm. Private property owners may want to consider using these materials on private property, especially in areas that abut public right-of-way, in order to create cohesiveness; however, it is not required.

	SITE WALLS	SIDEWALKS / WALKWAYS	PLAZAS, PATIOS & PARKS	STREET CURBS
				
<b>NATURAL WOOD</b>				
<b>CONCRETE PAVERS</b>				
<b>BRICK / BRICK PAVERS (FOR DOWNTOWN USE)</b>				
<b>GRAY CONCRETE</b>				
<b>GRANITE</b>				
<b>GRANITE FINES</b>				
<b>POWDER COATED METAL</b>				



# STREET LIGHTING



## AREA LIGHTING

Brand: Georgia Power

Model: Road Focus

Pole: Round

Color/finish: Bronze

Website: <https://www.georgiapower.com/business/products-programs/lighting-and-smart-services/outdoor-lighting/light-fixture-gallery.html>



## AREA LIGHTING

Brand: Georgia Power

Model: Omega Classic

Pole: Round

Color/finish: Black powdercoat

Website: <https://www.georgiapower.com/business/products-programs/lighting-and-smart-services/outdoor-lighting/light-fixture-gallery.html>



## PEDESTRIAN LIGHTING

Brand: Georgia Power

Model: Generation Brighton

Pole: York

Color/finish: Black powdercoat

Website: <https://www.georgiapower.com/business/products-programs/lighting-and-smart-services/outdoor-lighting/light-fixture-gallery.html>



## PEDESTRIAN LIGHTING - NORTHLAKE

Brand: Georgia Power

Model: Domus Pendant

Pole: York

Color/finish: Black powdercoat

Website: <https://www.georgiapower.com/business/products-programs/lighting-and-smart-services/outdoor-lighting/design-a-light.html#Domas-Pendant-Image>





### **SMART LIGHT FIXTURE**

Brand: Juganu

Model: Solitaire3 (NEMA or non-NEMA)

Color/finish: Black

Website: <https://juganu.clickhelp.co/articles/#!solitaire3-data-sheet-publication/datasheet>

Note: Existing lights in the city are currently non-NEMA due to the light controller being internal.



### **STRING LIGHTS**

Brand: American Lighting

Model: LS-C-12-BK / Commercial Light String E12 330ft Reel

Color/finish: Black

Website: <https://americanlighting.com/ls-e12>



### **BOLLARD LIGHTS**

Brand: Reliance Foundry

Model: R-9831 Lighted Bollard

Color/finish: Black powdercoat

Website: <https://www.reliance-foundry.com/shop/bollard/lighting/ac/r-9831-bollard>

# STREET FURNITURE



## BIKE RACK OPTION A

Brand: Dero

Model: Standard hoop rack  
with lean bar

Color/finish: Black powdercoat

Website: <https://www.dero.com/product/hoop-rack/>

Note: Install multiple bike  
racks to accommodate  
multiple bikes.



## BIKE RACK OPTION B\*

Brand: Victor Stanley

Model: BRNS-301 with custom  
branded “TUCKER” lettering

Color/finish: Black powdercoat

Website: <https://www.victorstanley.com/product/brns-301/>

Note: Install multiple bike  
racks to accommodate multiple bikes.

*\*Option for Downtown and  
Northlake*



## BIKE RACK OPTION C\*

Brand: Victor Stanley

Model: BRWS-101

Color/finish: Black powdercoat

Website: <https://www.victorstanley.com/product/brws-101/>

Note: Install multiple bike  
racks to accommodate multiple bikes.

*\*Option for Downtown and  
Northlake*



### **BENCH OPTION A**

Brand: LeisureCraft

Model: Northgate, surface  
mount, 6 feet (NG6)

Color/finish: Black

Website: <https://leisurecraftinc.com/products/northgate-bench?variant=43491899834558>



### **BENCH OPTION B\***

Brand: Landscape Forms

Model: Parc Vue, surface  
mount, with immediate seat  
divider

Color/finish: Matte black

Website: <https://www.landscapeforms.com/products/parc-vue-bench>

*\*Required for Downtown*



### **BENCH BASE OPTION A**

Type: Concrete base with  
concrete paver band

Concrete color/finish: Grey  
concrete finish

Paver brand: Belgard  
Commercial

Paver model: Holland

Paver color: Georgia Blend

Website: <https://www.belgardcommercial.com/products/holland-stone/#colors>



### **BENCH BASE OPTION B**

Type: Concrete base with brick  
paver band

Concrete color/finish: Grey  
concrete finish

Paver brand: Brick Makers

Paver model: Brick Series -  
Belden

Paver color: Sienna

Website: <https://www.brickmarkers.com/products/brick-tile-colors/>



# STREET FURNITURE



## BISTRO CHAIR

Brand: Landscape Forms

Model: Every Day Chair  
(Without Arms)

Color/finish: LOLL navy blue

Website: <https://www.landscapeforms.com/products/every-day-chair>



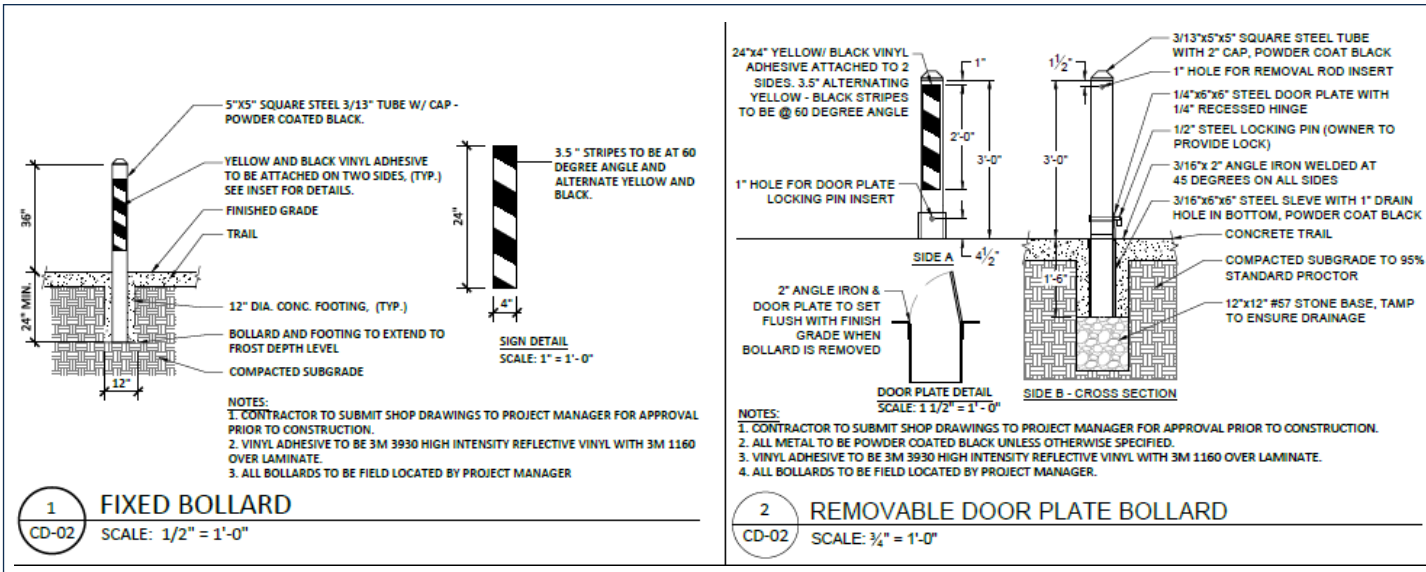
## BISTRO TABLE

Brand: Landscape Forms

Model: Chipman Table, Round,  
Size Varies TBD on location

Color/finish: LOLL navy blue

Website: <https://www.landscapeforms.com/products/chipman-table>



## PATH STANDARD BOLLARD

Note: Install according to PATH standards. Install fixed or removable options according to site specific requirements



### **BOLLARD OPTION A**

Brand: Reliance Foundry

Model: R-7907 Steel Bollard

Color/finish: Black powdercoat

Website: <https://www.reliance-foundry.com/shop/bollard/all-bollards/r-7907-bollard>

Note: Install fixed or removable options according to site specific requirements



### **BOLLARD COVER OPTION B**

Brand: Reliance Foundry

Model: R-7530-AL Decorative Bollard

Color/finish: Black powdercoat

Website: <https://www.reliance-foundry.com/shop/bollard/decorative/r-7530-bollard-al>

Note: Install fixed or removable options according to site specific requirements



### **STREET PLANTER OPTION A**

Brand: Landscape Forms

Model: Sorella Planter

Color/finish: LOLL navy blue

Size: Varies

Website: <https://www.landscapiforms.com/en-US/product/Pages/Sorella-Planters.aspx>



### **STREET PLANTER OPTION B**

Brand: Kornegay Design, A Landscape Forms Company

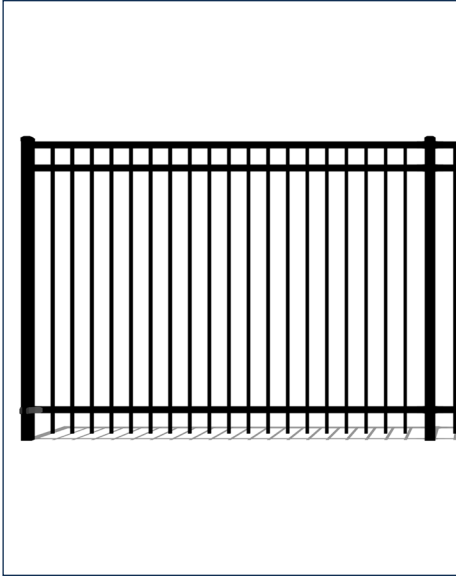
Model: Aspect Planter

Color/finish: Match surrounding granite used throughout the city: dune, graphite, natural gray

Size: Varies

Website: <https://kornegaydesign.com/solutions/aspect-planters/>

# STREETSCAPE ELEMENTS



## FENCING OPTION A

Brand: Ameristar

Model: Montage Plus - Majestic

Color/finish: Black

Website: <https://www.ameristarperimeter.com/us/en/products/ornamental-fence-gates/montage/montage-plus>



## FENCING OPTION C

Brand: Ameristar fence with granite columns spaced every 16' to 32'

Model: Montage Plus - Majestic

Color/finish: Black metal fence with high-quality granite columns to match granite throughout the city

Website: <https://www.ameristarperimeter.com/us/en/products/ornamental-fence-gates/montage/montage-plus>



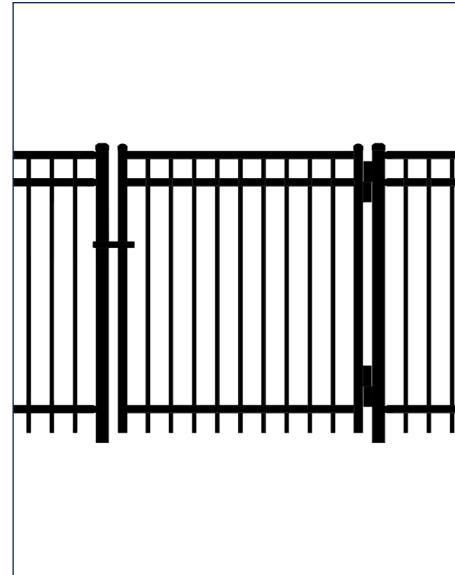
## FENCING OPTION B

Brand: Ameristar fence with brick columns spaced every 16' to 32'.

Model: Montage Plus - Majestic

Color/finish: Black metal fence with high-quality red brick columns

Website: <https://www.ameristarperimeter.com/us/en/products/ornamental-fence-gates/montage/montage-plus>



## GATE

Brand: Ameristar

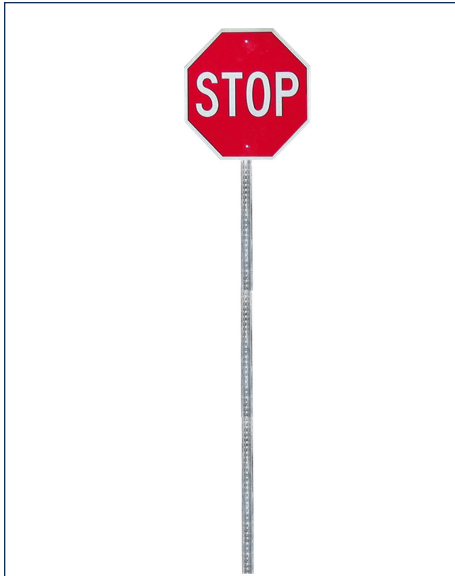
Model: Montage Plus - Majestic Gate

Color/finish: Black

Website: <https://www.ameristarperimeter.com/us/en/products/ornamental-fence-gates/montage/montage-plus>

\*Optional Keypad





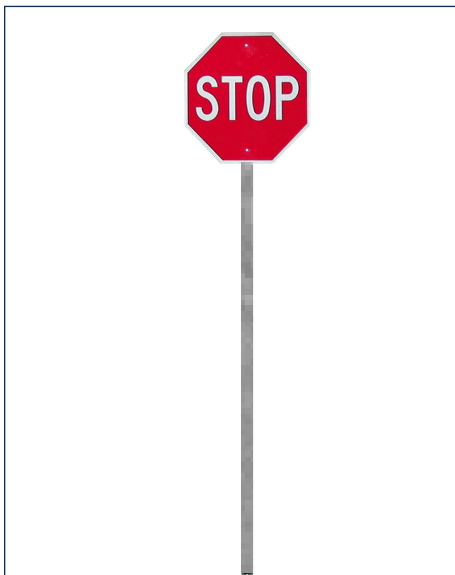
### STREET SIGN POST STANDARD OPTION

Brand: Tapco

Type: U-Channel Sign Post

Color/Finish: Galvanized silver steel

Website: <https://www.grainger.com/product/TAPCO-Sign-Post-U-Channel-Sign-Post-4LNJ9>



### STREET SIGN POST ADDITIONAL OPTION

Brand: Tapco

Type: Traffic Sign Post

Color/Finish: Galvanized silver steel

Website: <https://www.grainger.com/product/TAPCO-Sign-Post-Round-Sign-Post-9A908>



### STREET SIGN POST DOWNTOWN/NORTHLAKE OPTION

Brand: Brandon Industries

Base: 2PC3

Pole: SP3x10 (fluted, 10-foot pole)

Finial: FIN-B3

Color/finish: Black powdercoat

Website: <https://www.brandonindustries.com>

*\*Required for Downtown and Northlake*

# STREETSCAPE ELEMENTS



## MAST ARM

Type: Decorative steel strain pole with mast arm

Color/finish: Black powdercoat, smooth finish

Notes: All mast arms to adhere to applicable regulations.  
Standard basic pole



## STREET POLE BANNER SUPPORTS

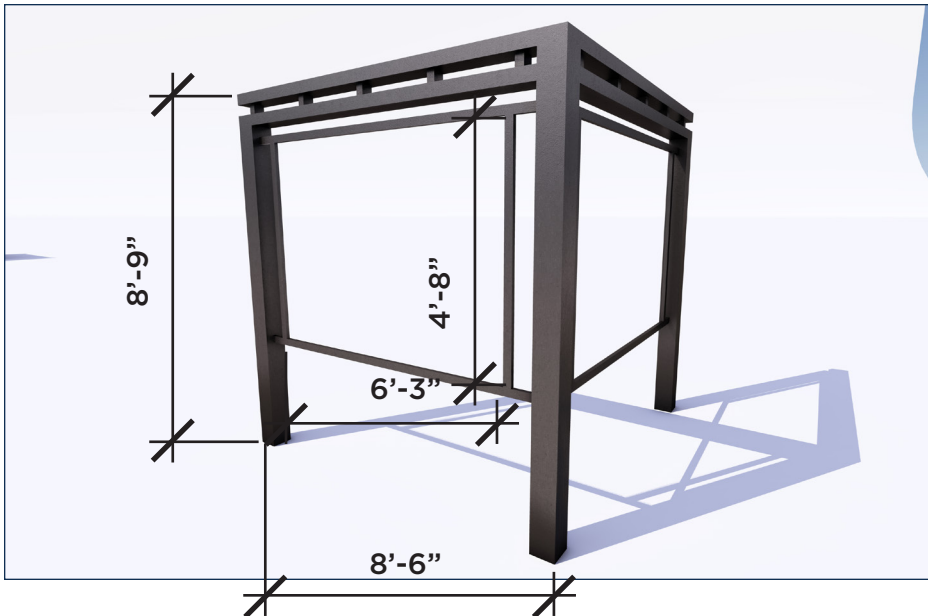
Material: Fiberglass

Size: 30"

Color/Finish: Black

Website: <https://www.flagandbanner.com/products/best-fiberglass-street-pole-arms.asp>

*\*Required for downtown and historic areas*



## BANNER SUPPORT STRUCTURE

Type: Custom design

Color/finish: Black metal

Note: Can support banners height up to 4 feet and up to 6 feet in length.



### **SITE WALL OPTION A**

Type: Granite wall, rectangular cut with 4-inch granite cap, rectangular cut

Color/finish: Granite



### **SITE WALL OPTION B**

Type: Stretcher Course Brick Wall with Brick Header Cap

Color/finish: Red brick



### **SITE WALL OPTION C**

Type: Concrete wall

Color/finish: Grey concrete

Notes: Not suitable for public facing areas unless treated with anti-graffiti coating



# STREETSCAPE ELEMENTS

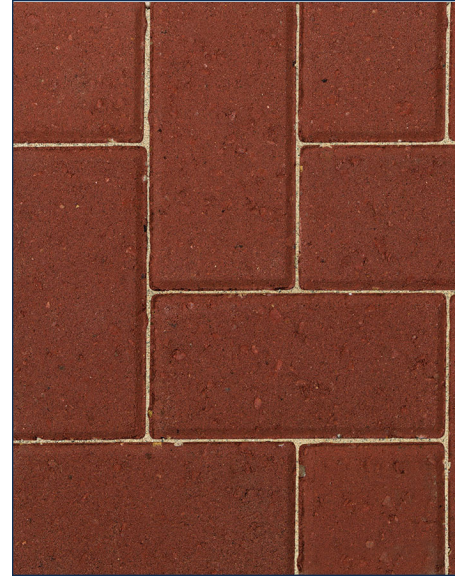


## CROSSWALK OPTION A

Type: Ladder

Color/finish: White

Notes: Design in accordance with GDOT and MUTCD standards



## CROSSWALK OPTION B

Type: Brick paver

Brand: Belgard Commercial

Model: Holland

Color/finish: ADA red

Pattern: Herringbone

Website: <https://www.belgardcommercial.com/products/holland-stone/>

*\*Intended for limited use in Downtown*



## STANDARD CURB DETAIL

Type: 6-inch concrete curb

Specifications: Refer to GDOT standards



## DECORATIVE CURB DETAIL\*

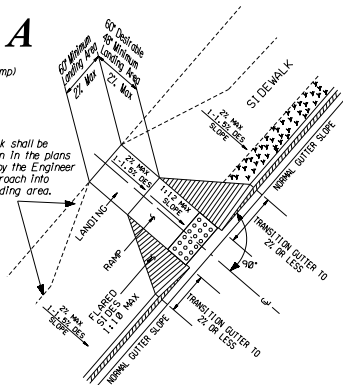
Type: 6-inch granite curb

Specifications: Install granite curb per City of Tucker standards



*(The Preferred Ramp)*

Back of sidewalk shall be located as shown in the plans or as directed by the Engineer so as not to encroach into the required landing area.

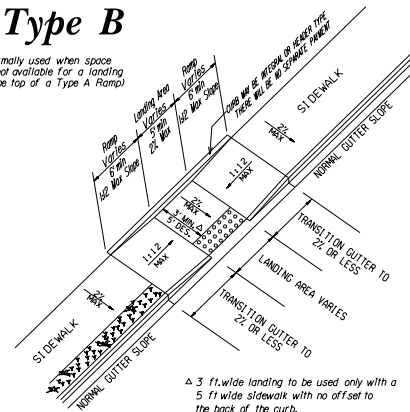


**Notes: Refer to GDOT standards**

Website: <http://mydocs.dot.ga.gov/info/designplans10/>

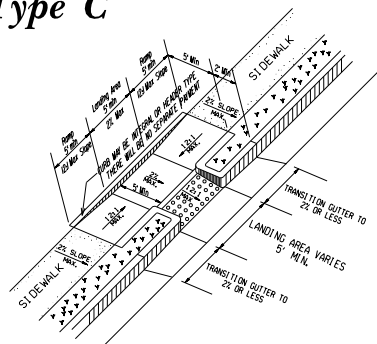
(Normally used when space is not available for a landing at the top of a Type A Ramp.)

(Normally used when space is not available for a landing at the top of a Type A Ramp.)



Notes: Refer to GDOT standards

Website: <http://mydocs.dot.ga.gov/info/designplans10/>

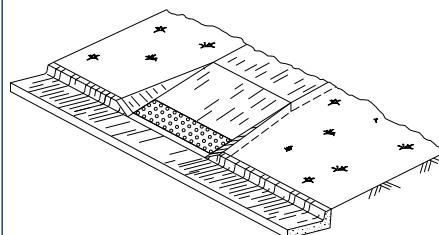


**Notes: Refer to GDOT standards**

Website: <http://mydocs.dot.ga.gov/info/designplans10/>

(Normally used when the sidewalk  
ties directly into the crosswalk)

(Normally used when the sidewalk  
ties directly into the crosswalk)

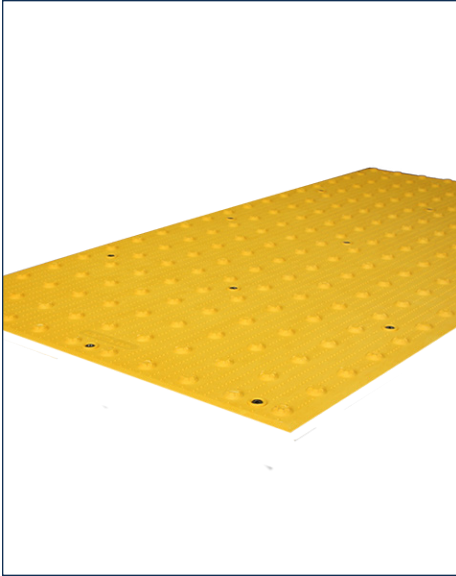


IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

Notes: Refer to GDOT standards

Website: <http://mydocs.dot.ga.gov/info/designplans10/>

# STREETSCAPE ELEMENTS



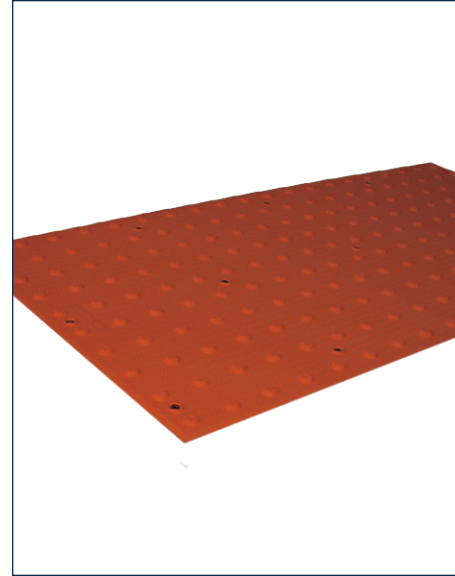
## DETECTABLE WARNING STRIP OPTION A

Brand: Detectable Warning Systems

Model: Varies depending on application (Redimat, Alerttile, Alertcast, or Alertcast paver)

Color/finish: Yellow

Website: <https://detectable-warning.com/>



## DETECTABLE WARNING STRIP OPTION B\*

Brand: Detectable Warning Systems

Model: Varies depending on application (Redimat, Alerttile, Alertcast, or Alertcast paver)

Color/finish: Colonial Red

Website: <https://detectable-warning.com/>

*\*Intended for limited use in Downtown. Optional for all other areas.*



## DETECTABLE WARNING STRIP OPTION C\*

Type: Brick paver

Brand: Belgard Commercial

Model: Holland ADA Truncated Dome

Color/finish: ADA Red

Pattern: Stack Bone

Website: <https://www.belgardcommercial.com/products/holland-stone/>

*\*Intended for limited use in Downtown. Optional for all other areas.*

## CENTER ISLAND DESIGN AT ROUNDABOUTS

Mountable (traversable) areas should be colored and may be textured with a stamped brick pattern or a simple broom finish, which adds skid resistance. If grass is not used, non-mountable areas, (such as medians, and buffer strips), should use stamped concrete (for sight impaired pedestrians) and colored differently so that drivers can distinguish mountable vs. non-mountable patterned concrete, or brushed-finish concrete.

GDOT approved concrete color options for mountable areas are shown opposite.

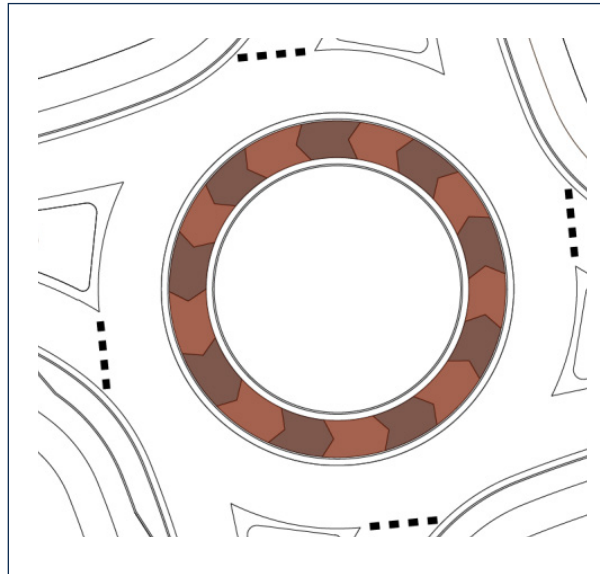
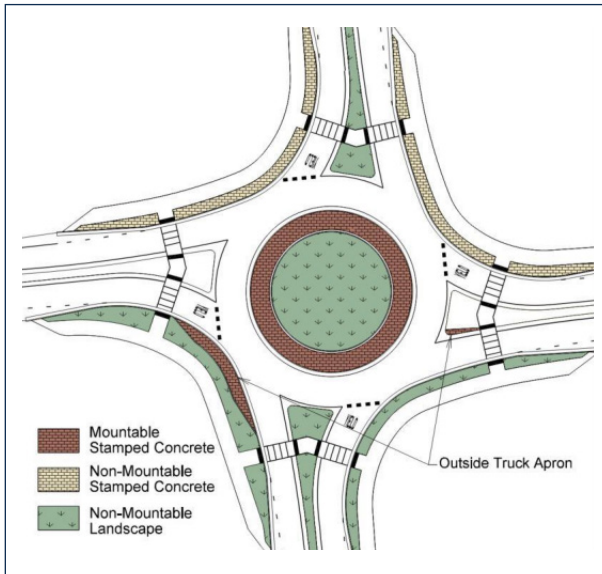
Alternative options for coloring and patterning of the truck apron are shown below. For truck aprons, a contrasting chevron pattern can be used to emphasize the one-way nature of a roundabout.

An example of an installed center island design at roundabout is also shown below.

Federal Standard  
30152

Federal Standard  
30108

Red Brown



# STREETSCAPE ELEMENTS



## MANHOLE STORM COVER OPTION A

Brand: EJ

Model: 1480A Solid Cover  
Storm Sewer Dump No Waste!  
Drains to Waterways with Bass  
Logo

Color/finish: Natural Cast Iron  
Patina

Website: <https://www.ejco.com/am/en/product/details?productid=beb214d5-5452-48df-b4e0-41481d892ae2&partnumber=00147987&uom=imperial>



## MANHOLE STORM COVER OPTION B

Brand: Iron Age Grates

Model: Custom Manhole Cover

Color/finish: Cast Bronze with  
Patina Finish

Website: <https://www.iron-agegrates.com/product/custom-manhole-covers/>



# SANITATION AMENITIES



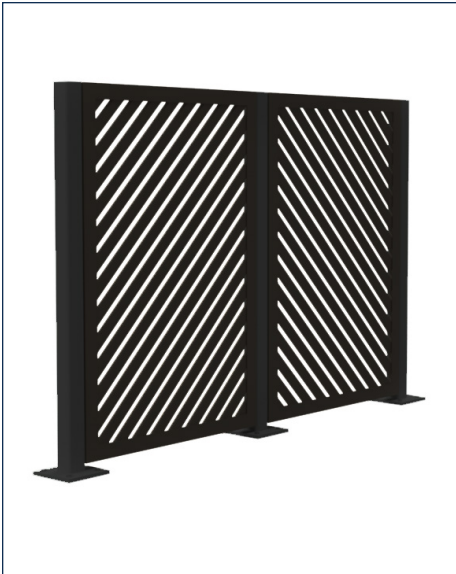
## TRASH RECEPTACLE OPTION A

Brand: Landscape Forms

Model: Chase Park litter, side-opening

Color/finish: Gloss black

Website: <https://www.landscapeforms.com/products/chase-park-litter>



## DUMPSTER ENCLOSURE WALLS OPTION A

Brand: PalmSHIELD

Model: Ajax Louvre

Color/finish: Standard black

Website: <https://palmshieldlouvers.com/products/ajax-louver/>



## DUMPSTER ENCLOSURE GATE OPTION A

Brand: PalmSHIELD

Model: Maximus Industrial Swing Gate

Color/finish: Standard black

Website: <https://palmshieldlouvers.com/gates/maximus-industrial-swing-gates/>

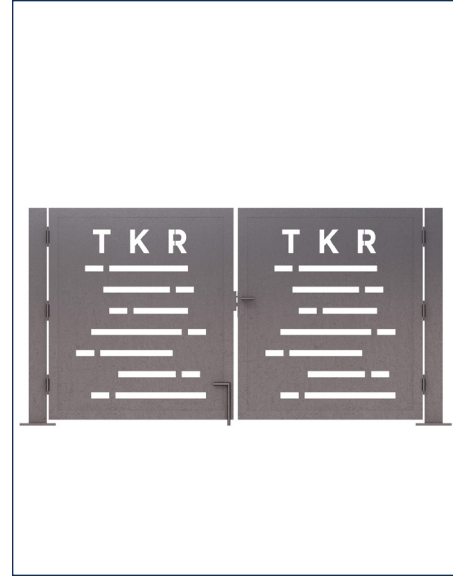
# SANITATION AMENITIES



## DUMPSTER ENCLOSURE WALLS OPTION B

Preferred material: Granite

Alternative material: Brick



## DUMPSTER ENCLOSURE GATE OPTION B

Brand: PalmSHIELD

Model: Single or Double  
Dumpster with Custom Laser  
Cut Infill

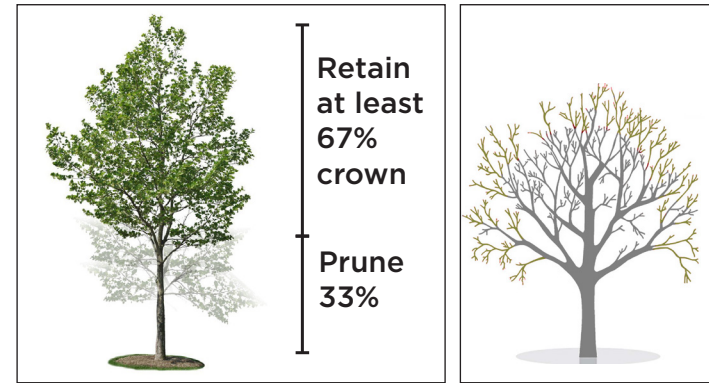
Color/finish: Standard black

Website: [https://  
palmshieldlouvers.com/  
products/single-dumpster/](https://palmshieldlouvers.com/products/single-dumpster/)

# PLANT MATERIALS

It is recommended that plant selections be made with consideration of local conditions, micro-conditions, seasonal variety, hardiness, and environmental benefits. It is recommended that all plantings be native.

For street trees, crown raising is restricted to less than 15% of the live crown height. Leave the crown at least two thirds of the total height of every tree.



## OVERSTORY TREES



*Tulip Tree,  
Liriodendron Tulipifera*



*Willow Oak, Quercus  
phellos*

\*American elm, *Ulmus americana* 'Jefferson', 'Princeton', or other Dutch resistant varieties

American Linden, *Tilia americana*

Bald Cypress, *Taxodium distichum* 'Sofine'

\*Oak, *Quercus spp.*, all varieties except for *Quercus nigra* (water oak)

\*Red Maple, *Acer rubrum*\*

River Birch, *Betula nigra* 'BNMTF'

\*Trident Maple, *Acer buergerianum*

\*Tulip Tree, *Liriodendron Tulipifera*

*\*Recommended for street tree use. Note, only use understory trees when planting beneath overhead power lines. Adhere to GDOT standards when planting street trees.*

*All trees above are appropriate for City Memorial Tree Program*



# PLANT MATERIALS

## UNDERSTORY TREES



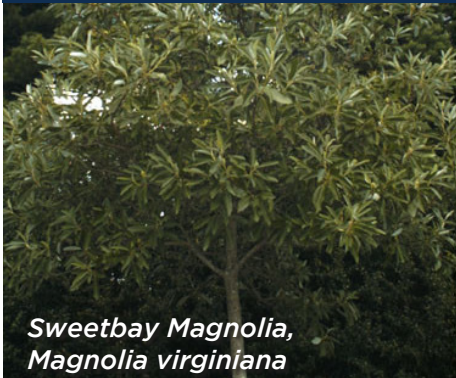
*Eastern Redbud,  
Cercis canadensis*



*Southern Fringe Tree,  
Chionanthus virginicus*

American Hornbeam, *Carpinus caroliniana*  
Chaste Tree, *Vitex agnus-castus*  
Downy Serviceberry, *Amelanchier arborea*  
\*Eastern Redbud, *Cercis canadensis*  
Flowering Dogwood, *Cornus florida*  
\*Red Buckeye, *Aesculus pavia*  
\*Southern Fringe Tree, *Chionanthus virginicus*

## EVERGREEN TREES



*Sweetbay Magnolia,  
Magnolia virginiana*



*Saucer Magnolia,  
Magnolia x soulangeana*

American Holly, *Ilex opaca*  
Cherry Laurel, *Prunus caroliniana*  
DeGroot's Spire Arborvitae, *Thuja occidentalis* 'DeGroot's Spire'  
Eastern Red Cedar, *Juniperus virginiana* 'Brodie', 'Providence', or 'Tapestry'  
Green Giant Arborvitae, *Thuja x 'Green Giant'*  
Mary Nell Holly, *Ilex 'Mary Nell'*  
Nellie R. Stevens Holly, *Ilex x 'Nellie R. Stevens'*  
Saucer Magnolia, *Magnolia x soulangeana*  
Savannah Holly, *Ilex x attenuata* 'Savannah'  
Southern Magnolia, *Magnolia grandiflora*  
Sweetbay Magnolia, *Magnolia virginiana*

*\*Recommended for street tree use. Note, only use understory trees when planting beneath overhead power lines. Adhere to GDOT standards when planting street trees.*

*All trees above are appropriate for City Memorial Tree Program*



## SHRUBS



Fothergilla,  
*Fothergilla* spp.



Oakleaf Hydrangea,  
*Hydrangea quercifolia*



Virginia Sweetspire,  
*Itea virginica*



Dwarf Chokeberry,  
*Aronia melanocarpa*

Abelia, *Abelia x grandiflora*

Azalea, *Rhododendron*, spp.

Buckeye, *Aesculus*, spp.

Burford Holly, *Ilex cornuta* 'Burfordii'

Camellia, *Camellia sasanqua*

Carolina Cherry Laurel, *Prunus caroliniana*

Clethra, *Clethra alnifolia* 'Crystallina', 'Hummingbird', 'Sugartina', 'White Dove', or 'Tom's Compact'

Distylium, *Distylium* spp. 'Jewel Box', 'Bayou Bliss', 'PIIDIST-II' or 'Swing Low'

Dwarf Chokeberry, *Aronia melanocarpa* 'Low Scape Mound',

Dwarf Yaupon Holly, *Ilex vomitoria* 'Nana', 'Schillings', or 'Stoke's Dwarf'

Fothergilla, *Fothergilla*, spp.

Indian Hawthorn, *Raphiolepis x delacourii* 'Georgia Petite'

Inkberry, *Ilex glabra*

Limelight Hydrangea, *Hydrangea paniculata* 'Little Lime'

New Jersey Tea, *Ceanothus americanus*

Oakleaf Hydrangea, *Hydrangea quercifolia*

Shrubby St. Johns Wort, *Hypericum frondosum*

Snowball Bush, *Viburnum opulus* 'Roseum'

Tea Olive, *Osmanthus fragrans*

Viburnum, *Viburnum obovatum* 'Mrs. Schiller's Delight'

Virginia Sweetspire, *Itea virginica* 'Merlot' or 'Little Henry'

Winter Berry, *Ilex verticillata* 'Red Sprite'

# PLANT MATERIALS

## GRASSES & VINES



Pink Muhly Grass,  
*Muhlenbergia capillaris*



Yellow Jessamine,  
*Jessamine sempervirens*



Little Bluestem,  
*Schizachyrium scoparium*



Switchgrass, *Panicum virgatum*

Blue-eyed Grass, *Sisyrinchium angustifolium*

Climbing Hydrangea, *Hydrangea petiolaris*

Creeping Fig, *Ficus pumilia*

Gold Dew Tufted Hair Grass, *Deschampsia cespitosa* 'Goldtau'

Liriope, *Liriope muscari*

Little Bluestem, *Schizachyrium scoparium*

Pennsylvania sedge, *Carex pennsylvanica*

Pink Muhly Grass, *Muhlenbergia capillaris*

Prairie Dropseed, *Sporobolus heterolepsis*

River Oats, *Chasmanthium latifolium*

Switchgrass, *Panicum virgatum*

Yellow Jessamine, *Jessamine sempervirens*



## PERENNIALS



Christmas Fern, *Polystichum acrostichoides*



Black-Eyed Susan, *Rudbeckia hirta*



Virginia Bluebells, *Mertensia virginica*



Heartleaf Foamflower, *Tiarella cordifolia*

Butterfly Weed, *Asclepias tuberosa*  
 Black-Eyed Susan, *Rudbeckia hirta*  
 Blazing Star, *Liatris spicata*  
 Columbine, *Aquilegia canadensis*  
 Coneflower, *Echinacea purpurea*  
 Creeping Phlox, *Phlox subulata*  
 Crested Iris, *Iris crestata*  
 Daffodil, *Narcissus spp.*  
 Daylily, *Hemerocallis spp.*  
 False spirea, *Astilbe spp.*  
 Ferns, *various species*  
 Foamflower, *Tiarella spp.*  
 Joe Pye Weed, *Eupatorium fistulosum*  
 Michaelmas Daisies, *Aster*  
 Shasta Daisy, *Leucanthemum x superbum*  
 Virginia Bluebells, *Mertensia virginica*  
 Yarrow, *Achillea millefolium*



A photograph of a park landscape. In the foreground, there is a pond with reeds and other aquatic plants. To the right, a rocky shoreline is visible. In the background, there are trees, benches, and a building.

**03**

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**GREEN  
INFRASTRUCTURE**



# GREEN INFRASTRUCTURE

## WHAT IS GREEN INFRASTRUCTURE?

Green infrastructure is an approach to managing stormwater runoff that emphasizes filtration, evapotranspiration, and reuse, thereby reducing the volume of polluted runoff from entering our streams and pipe systems. Green infrastructure systems, such as bio-retention areas, green roofs, permeable pavers, and cisterns are designed to capture the first one inch of rainfall. In addition to stormwater management and cleaning water for downstream neighbors, certain green infrastructure best management practices (BMPs) provide ancillary benefits, including wildlife habitat creation and biodiversity, urban heat island mitigation, and the creation of greenspaces. The following are examples of green infrastructure that can be incorporated into Tucker's buildings, streets, and public spaces.

## BIO-RETENTION SYSTEMS

Bio-retention systems are depressed areas that use soil, rocks, plants, and microorganisms to treat stormwater before it is discharged back into the water supply. They can be created in a variety of ways, such as traditional rain gardens, ponds, basins, or bioswales that are located along street corridors and pathways. The design of the bio-retention system is often dependent on how much stormwater runoff needs to be filtered, where it will be located, and the aesthetics. There are some common issues that can arise with a bio-retention system, such as sediment build-up, mosquitoes and other pests, maintaining proper pH, and weeding to maintain aesthetics.



*Example of a bio-retention system*



*Example of a bio-retention system*



# GREEN INFRASTRUCTURE

## GREEN ROOFS

Green roofs are a solution to a wide variety of sustainability issues. Urban heat island, stormwater quality, wildlife habitat, and food access are examples of issues that can be addressed with green roofs, especially in commercial areas. However, green roofs can prove difficult to incentivize due to their high cost and maintenance regime. As a stormwater solution they are often the only option to address water quality on high density buildings and are often incorporated as open space features of a building, therefore one of the best incentives is to ensure they are given credit as open space, regardless of their public access. If green roofs are to be part of a building rehabilitation or renovation's design, care must be taken to ensure they meet the requirements of the City's zoning ordinance and building codes.



*Example of a greenroof*

## PERVIOUS PAVEMENT

When rainwater can't be absorbed, it will sit on an impervious surface and eventually run off, collecting with it pollutants. The amount of impervious surfaces associated with road projects and surface parking lots makes them a significant source of stormwater runoff and pollutants. Pervious pavement is designed to allow the percolation of stormwater through the surface and into the soil below, where the water can be naturally filtered and the pollutants can be removed. Pervious pavements may be recommended as an option for sidewalks and walkways, and porous asphalt as an alternative to traditional asphalt.



*Example of a permeable pavers in a parking lot*



## LED LIGHTING

LED lighting is an energy-efficient, powerful, and eco-friendly sustainable solution to traditional lighting. As the prices of LED lighting fixtures continue to drop, and the efficiency of LEDs rise, they're becoming a more accessible choice. Because of their versatility, LED lights present a green alternative with a wide range of applications. Their ability to perform specific lighting tasks has also made them a reliable go-to lighting solution for spotlights, accent lamps, security signals, and lighting signs. It is recommended that non-LED lighting be replaced with LED lights to the extent possible and in such a way that it doesn't interfere with the design of a building's exterior rehabilitation or renovation.

## WATER HARVESTING AND REUSE

Outdoor and process water needs can be met through on-site rainwater harvesting, such as cisterns and barrels, and air conditioner condensate recovery. Recovering the condensate would alleviate the capacity and treatment required by the sewer system while also reducing the consumption of the building in supplying their irrigation needs. Collected rainwater can also be used for cooling towers.

## ENERGY AND MATERIAL RESOURCING

Harnessing energy and material through reusable sources provides an opportunity to reduce waste and capitalize on renewable energy resources. Integrating solar panels on buildings, shade structures, etc. can help provide power for lighting and other energy needs. These measures will reduce cost of energy and outside materials and provide an educational opportunity on sustainable practices.



*Example of a water cistern and solar panels*



