The Augusta Entry and Corridor Beautification Guidelines A Resource for All Who Dig the Garden City



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The Augusta Entry and Corridor Beautification Guidelines

A Resource for All Who Dig the Garden City Sponsored by the Augusta Convention and Visitors Bureau and Augusta-Richmond County Written by Johnson, Laschober, and Associates, P.C.

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Definitions:

Contractor- The contractor shall be defined as the party who enters into a contractual agreement put forth by another entity.

The City- The city, as used herein, shall refer to the Augusta, Georgia municipal government.

Landscape Architect-Landscape architect as used herein shall refer to a professional liscensed as a landscape architect by the state of Georgia. The landscape architect shall be the principal party involved in the design of any Beautification project.

Contract-Shall refer to a written agreement between two parties involved in an Augusta beautification project, that is intended to be enforceable by law.

Corridor- A corridor shall refer to any thoroughfare including immediate surrounding buildings, parcels, views, etc. determined to be of specific importance to the image of the city by the Augusta Beautification Commitee.

Design Phase-The design phase of a project, as specified herein, will include all project related activities between procurement of a Landscape Architect and the beginning of construction. Design Phase includes project development, design documents, construction documents, and permitting.

Construction Phase-Construction phase, as specified herein, will include all activity between procurement of a Construction Contractor and Final Completion of Contruction according to the contract.

Maintenance Phase-The maintenance phase as specified herein will include the continuing maintenance of the project by a professional landscape maintenance company for the lifespan of the project. **Right of Way (R/W)**-Right of way shall refer to the legal right, established by usage or grant, to pass along a specific route through property belonging to another.

Beauty Spot-A beauty spot as referred to herein shall be a small area meant to bring emphasis to an area or create an impact on passers-by. Beauty spots will be typified by more complex design and may be designed independently or as part of a corridor.

Groundcover- A groundcover as described herein shall refer to any low growing grass, vine, or shrub that is intended to completely cover the area in which it is planted. Such plants will often be low and wide, or of a creeping or spreading variety.

Hardscape- Hardscape shall refer to any non landscaped area within the scope of the design. Typically, hardscape will be poured concrete, concrete or clay pavers, or asphalt. Concrete and asphalt hardscape elements may have color added, be stamped, or be formed to create a more visually appealing design.

Xeric- Xeric, as referred to herein shall be defined as a descriptor of any low water use area.

Sponsor- Sponsor, only as referred to herein, as a part of the Augusta Beautification Agreement, shall refer to the Augusta Georgia municipal government.

Company-The Company, only as referred to herein, as a part of the Augusta Beautification Agreement, shall refer to the party who enters into an agreement with the city under the Augusta Beautification Agreement Program.

Purpose

The purpose is three fold: to beautify the Garden City, to welcome visitors to our city and make a positive first impression by creating positive experiences, and finally to differentiate between different corridors and districts to build a sense of place and reinforce local character.

Applicability

This code shall apply to all new roadway construction, existing landscape improvements and all development projects within a designated Entryway Corridor. Variances shall be requested through the Augusta Beautification Committee by contacting Augusta Georgia Planning and Development Department.

Planned Gateways & Corridors:

The following areas have been identified by the City of Augusta for beautification initiatives:

Gateways:

- Riverwatch Parkway at Alexander Drive
- Doug Bernard Parkway at Bobby Jones
- Expressway (extending from Bobby Jones to the airport and to the Gordon Highway intersection which is included)
- Sandbar Ferry Road at Bobby Jones
 Expressway

Secondary Gateways:

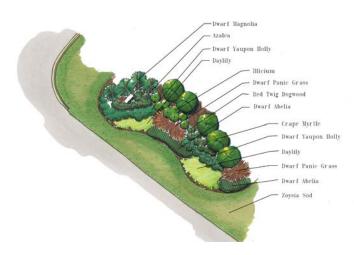
- Wheeler Road at I-20 (Established and maintained by Wheeler Rd businesses)
- Alexander Drive (Established and maintained by Barry Storey)
- St. Sebastian Way (Established and maintained by area businesses)
- Gordon Highway east of Bobby Jones Expressway (Established and maintained by the Gordon Highway Development Committee)
- Deans Bridge Road & Gordon Highway



Augusta Beautification project before landscape construction.



Augusta Beautification project after landscaoe construction.



Proposed Beautification Project Rendering

Interstate Interchanges (subject to GDOT approval)

- Washington Road at I-20
- Riverwatch Parkway at I-20
- Deans Bridge Road at I-520
- Doug Bernard Parkway at I-520
- Gordon Highway at I-520

Other area of interest may arise as further development increases – or as targeted by private groups or city departments.

Starting the Process

Projects can be established in a variety of ways by private donors, civic groups, organizations, businesses, or by a branch of the Augusta Georgia municipal government.

Common means of project establishment are as follows:

- Garden City Improvement/Augusta Beautification as clearing house/first stop for municipal or private projects
- Road Construction Projects will necessitate a review for landscape opportunities while in concept phase, in order to better plan available landscape space.
- Projects may be initiated by the City or by stakeholders through this process.

See Augusta Beautification Approval Process for information on how to initiate a project below. Augusta Beautification Agreement is attached as an exhibit.

A UGUSTA BEAUTIFICATION APPROVAL PROCESS" (For Private Parties)

1. The Company/Organization selects an area to be considered for landscaping.

2. The Company/Organization contacts the Augusta Richmond County Planning Commission to obtain approval for the site selected, the program requirements and agreement documents.

3. The Company/Organization provides a detailed landscaping and maintenance plan to Augusta Georgia Planning Commission which will be reviewed by the Augusta Beautification Oversight Committee*. The landscaping plan must be prepared or reviewed by a Registered Landscape Architect and include plant material types, size and requested locations in accordance with the Augusta Beautification Standards. The maintenance plan includes an estimated annual maintenance cost, plan for funding, length of commitment, and contact information of the party committing to maintain the area.

4. The Company/Organization provides proof of insurance as follows:

- A. Worker's Compensation Certificate of Insurance
- B. General Liability Insurance \$1,000,000 minimum coverage
- C. Automobile Insurance \$500,000 minimum coverage

5. The Company/Organization is notified of required revisions and/or approval of plan.

6. The Company/Organization signs and submits five (5) copies of Augusta Beautification Program Agreement to the City Law Department. The CEO/President and Corporate Secretary must sign all documents. The Company/Organization's Corporate Seal must be affixed. The Mayor executes the agreement.

7. Installation may begin. (Pending all necessary plan approvals have been accepted.)

*The Augusta Beautification Committee consists of representatives from the Augusta Richmond County Planning Commission, Traffic & Engineering, Parks & Recreation, and the Augusta Convention & Visitors Bureau."



Major arterials are the most restricted regarding *b* anting design and irrigation.



Minor arterials offer many opr tunities for high impc t design.



Local streets offer opr tunity for civic group and homeowners to join in the beautification effort.

Design Procurement

Projects initiated by the City will follow the standard practice for project procurement. Privately initiated projects with the City as a donor will require the submission of a minimum of three bids. Fully privately funded jobs are free to use any procurement means the owner desires.

All Augusta Beautification projects shall be designed by a Georgia licensed Landscape Architect only.

Design Process

Roadway classification will have a direct correlation with the design character and maintenance requirements for any project. Corridors that receive the most traffic will be more complex in design character and require more frequent maintenance than lesser traveled ways. All corridors and entry ways will receive enhanced maintenance in late March and early April. Augusta Beautification Committee will classify each project and reserves the right to re-classify as it sees fit.

Roadway Classifications

- Major arterials will be defined as any roadway with more than 4 lanes, with limited access, and divided medians.
- Minor arterials will be defined as any roadway with 4 lanes, divided roadway, and limited access.
- Collector streets shall be defined as those unrestricted access roadways with more than two lanes.
- Local streets will be defined as those unrestricted access roads with only 2 lanes.

Right of Way Ownership Implications

Georgia Department of Transportation (GDOT) Right of Way (R/W)

For projects or parts of projects which are on GDOT R/W see the attached "Policy for Landscaping and Enhancements on GDOT Right of Way".

Augusta, Georgia R/W

Follow the above mentioned GDOT guideline for any items not addressed, in this boolof standards.

Many of the planting limitations and irrigation restrictions from the GDOT Guideline are not required for medians and roadway shoulders within ARC Right of Way. Please contact the Augusta Traffic Engineering Department for further clarity.

Typical design characterization

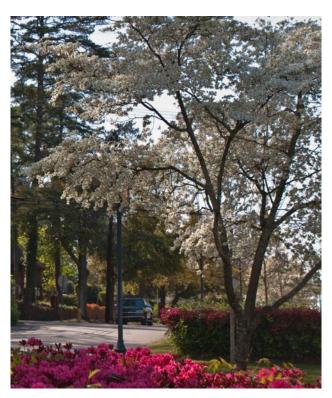
The typical Augusta Georgia gateway design will be representative of the city in its character and composition. Traditional plants of the southern garden will be prominently featured in each project and accompanied by hardy plants that both complement the southern palette and thrive in the heat of summer. Plantings should be designed to provide year round interest, with particular attention paid to providing impact from late March to early April. Plantings should favor the southern garden style where possible. Ornamental heavy plant combinations should be paired with tidy edges of sod, groundcovers, or mulch. Projects should be designed for ease of maintenance.

Expected Project Life

• Projects should be designed to provide a minimum 50 year project life. The use of appropriate plant material and irrigation equipment will help to extend the project's lifetime. Assume a minimum 10 year cyclical refurbishment period for major maintenance, such as seasonal bed soil replenishment, major tree pruning, major irrigation maintenance, and sub-surface drainage maintenance.



Using hardy p ant material is necessary to maintain a b autiful p oject year round.



Sut hern garden *b* ants should *b* prominent in any Augusta Beautification Project.

Median Type	Description	Design and Technical Directions
Narrow	Medians 6' in width or less	Concrete recommended as standard material: basic City standard is poured in place concrete curbs with broom finish between curbs; where stamped colored concrete has been used in nearby medians on the same arterial, its use should be continued
		Special area guideline pavement should be used in place of standards where applicable
Beauty Spot/Gateway	Sections of medians and shoulders at k y intersections and gateway	Medians designed to integrate with area-specific streetscape design guidelines
	points that function to announce arrival at an important place along an	Well detailed and higher quality materials due to high levels of importance
	arterial corridor	Median trees selected to coordinate with street trees
		Banners, entry signage, gateway elements, public art, special lighting (only where coordinated by Engineering).
		Area-specific entry signage/bollards used to announce median where approved by Engineering.
		Standard median signage shall be from Augusta Convention and Visitors Bureau "City of Augusta Wayfinding and Welcome Signage" Program
Town/Neighborhood Center	Designated areas for intensive pedestrian-	Well detailed due to high levels of pedestrian activity.
	oriented commercial, mixed use and civic development Medians designed to integrate with area-specific streetscape design guidelines.	Trees selected to match street trees with emphasis on growing conditions for tree health and longevity to maximize greening, including use of structural soils under paved areas such as pedestrian crosswalk to prevent roots from break ng and heaving crosswalk.
		Trees generally planted on centerline of median to minimize impacts on sightlines to commercial storefronts/signage.
		Medians designed to support pedestrian safety and traffic calming.

Median Type	Description	Design and Technical Directions
Commercial Corridor/ Business Park	Arterial road with concentration of commercial land uses with primarily vehicular	Standard level of detail due to comparatively low levels of pedestrian activity. Standard hardscape treatment where no area-specific
	rather than pedestrian orientation	guidelines exist. Emphasis on greening through use of trees and mass
	Medians designed to provide continuity and	plantings of shrubs/groundcover
	identity to the corridor.	Trees generally planted on centerline of median to minimize impacts on sightlines to commercial storefronts/signage.
		Minimize vehicular crossings of median to maximize greening opportunities.
Residential Corridor	Arterial road with concentration of residential land uses,	Vehicular crossings of median should be minimized in order to maximize greening opportunities.
	especially where residences have entries	Median lighting is warranted in order to minimize light impacts on residential uses; no banners
	related to the fronting arterial Multifamily to single family residential land use character should	Informal plantings to maximize greening, to communicate a residential character, and to create strong contrast with commercial corridors.
	be reinforced by median treatment.	Groupings of different tree species either on centerline or staggered as width permits; use of areas of spring bulbs; use of accent areas of flowering shrubs/groundcovers, particularly near intersections
		or other focal points. Plant selection from drought tolerant species related to a residential plant palette, including grasses and common roses.

Median Type	Description	Design and Technical Directions
Park Open Space Corridor	Major park and intersections with major greenway corridors	Medians should be planted to compliment the character of major parks – from urban to naturalized treatments.
		Consideration should be given to avoiding medians within major park , especially park that are treated as forest areas in favor of minimizing the overall width of the developed road right-of-way since green space at the road edge is substantially higher value as part of the urban forest than a median.
		Greenway crossings of arterials should be announced and facilitated by the median treatment on a case by case basis -pot ential design details could include pedestrian crosswalk , bollards for refuge and visual cues for motorist, signage or banners.
		Use native species consistent with the ecology of the area to increase habitat values associated with the nearby green space. Heritage Area (Cultural and Natural) Medians at places of heritage significance, including buildings on the Heritage Register, intersections of heritage roads Special features or planting in the median should complement and assist in the interpretation of heritage features -pot ential details include signage, pole-mounted banners, placement of an appropriate artifact in the median (historic farm machine at a heritage farmstead), historic plant materials (flowering fruit trees).
Rural/Agricultural Corridor	Generally medians are not required	Medians should be planted with simple mass plantings that suit the adjacent cultural landscape character; rural residential should use a residential plant palette; agricultural uses should generally have a row of trees with one consistent groundcover species.

Median and Non-Median General Characteristics

• The Augusta Beautification Committee reserves the right to establish the classification of any project or portion of a project as xeric or non-xeric.

Xeric Landscapes

• In a xeric median, the plants are to be drought resistant and will only be watered until establishment. Xeric medians will have similar character to Non-xeric medians where possible. Turf grasses will not be used in xeric medians due to high water requirement. Ground cover or mulch will serve as the main field of the median.

• Xeric medians will be best suited with native and hardy plant materials.

Non-Xeric Landscapes

• In non-xeric medians, irrigation shall be installed and equipped with smart controller technology. Calsense brand of controller is the system in use by Augusta, Georgia. Turf grass is acceptable in non-xeric medians.

Plant Usage by Plant Type

Grass/Groundcover Spacing

• Groundcover should be installed and spaced to achieve full continuous plant mass in two years and at no greater than 3' O.C. See GDOT guide. Use

• Groundcover shall be used as the lowest layer of plant material within bed lines where turf is included in the design. In some instances (xeriscaping, low water or low maintenance zones), groundcovers may be used curb to curb as the field in which the planting beds are established. Location

• Groundcovers will be used to reinforce gradual height changes leading the eye upward between turf and shrubs or trees. Groundcover may also be used in any location that cannot sustain grass or cannot be mowed.



Xeric landscap s are comps ed of b ants that reqi re very little water after estab ishment.



Non-Xeric Landscap s require irrigation to p rform at p ak conditin



Where grass is not used, gr oundcovers b come the main ground level element.



 βc ing shrub for mature size help p event looking overgrown and decreases likelihood of disease.



Clonal p ant varieties are p eferred due to consistency of character and p rformance from p ant to p ant.



Large trees can b used q i te effectively to frame a spc e and create enclosure.

Shrubs Spacing

• Shrubs shall be spaced according to mature size. Small shrubs can be placed 3'-5' apart, while large shrubs will generally be installed at 5'-8' O.C. Use

• Shrubs should be used to create year round interest in the design. With the appropriate mix of evergreen and deciduous plants with unique flower color and foliage texture, the project can provide interest all year round.

Location

• Shrubs function as the main eye level accompaniment to the trees which will usually define the space above. In the case where trees are not allowed, large shrubs may function as the predominant space defining element and may be used like trees with medium and small shrub accompaniment.

Large Trees Spacing

• As a rule of thumb, large shade trees may be planted at 40' O.C. in linear projects. In some instances (i.e. high speed corridors) larger spacing is acceptable, but should under no circumstance exceed 60' O.C.

Use

• Clonal varieties of large native trees shall be specified where possible.

• Trees will be used as the spine of all linear projects and set the tone of the corridor. Trees will be used to reduce heat island effect by shading roadways, to break up expansive stretches of median by introducing rhythm and pattern, as well as to frame views and create focal points.

• Trees form an implied barrier creating separate spaces. Median trees divide the roadway into two spaces while trees on the curb or shoulder can envelope the whole roadway as one space with "walls" on either side.

Location

• In general, trees will be planted centrally in linear projects (setback estrictions apply in medians). Incorporate trees throughout the project area to form spaces and focal points.

Small Trees Spacing

• As a rule of thumb, small trees shall be spaced at 20'-30' O.C.

Use

• Small trees function in a role that is a hybrid between the space defining large tree and the interest of flowering shrubs. Small trees can function as either, in order to provide the perfect complement or transition between the shrub and large tree.

Location

• In general, trees will be planted centrally in linear projects (setback estrictions apply in medians). Incorporate trees throughout the project area to form spaces and focal points.

Seasonal Color

Spacing

• Seasonal color shall be the responsibility of the organization/company to install as needed in order to k ep vibrant annuals in bloom all year long. Plants shall be spaced so that at maturity of plants the seasonal bed will be completely covered in continuous vegetation.

Use

• Seasonal color shall make up a minimal amount of the total landscaped area. Use shall be to provide an impact upon approaching a landscaped median. Pops of color and interesting foliage texture combinations are encouraged.

Location

• Locate to make an impact as people first approach the project or corridor.

Care should be taken to minimize or prevent new plantings of any type within the root zone of established trees.



 δn all trees often offer added visual impc t through flowering or fall color.



 \mathcal{S} asonal color should \mathcal{B} used to create visual impc t with a small footp int.



In order to limit large scale losses, the amount of un-p oven p ants in each p oject will b limited.



The theme tree will b the p edominant reoccuring design compnent and set the character of the p oject.



Dark b own doub e hammered hardwood br k mulch shall b the p eferred mulch used in all b ds.

Recommended Plant Type Ratios

The Augusta Beautification Committee reserves the right to determine the theme plant species of any corridor or project.

• No more than 25% of the total plant material (by area) proposed for a project shall be azaleas.

• No more than 20% of the total plant material proposed for a project shall be deciduous plant material by area (Excluding trees).

• No less than 60% of total trees proposed for a project shall be large trees.

• A theme tree/shrub combination shall be established for every project or corridor. Approximately 60% of any plant category (large tree, small tree, flowering shrub) will be of the theme species for the project. Any project completed as a continuation of an established project, or proposed in a corridor with an established theme tree/shrub combination shall not vary the theme tree.

• A maximum of 2 plant types per project, which have not been proven in Garden City Improvement previous project or included in initial Guideline plant palette, may be used in a new project. Unproven plant material is not to exceed 10% total project plant material by area.

• No envasive exotic species as defined by the Georgia Exotic Pest Plant Council shall be specified for installation in any project.

Mulch

• All mulch used in beautification projects shall be organic in nature. No stone or synthetic mulch shall be used.

• Preferred mulch materials are double hammered hardwood barkm ulch or long leaf pine straw. If artificial color is to be used, mulch should be naturally colored in brown hues. No blackor red mulches will be accepted.

• Mulch shall be installed between 2"-4" thick and shall be replaced as needed and at minimum twice per year.

• No mulch shall be installed immediately around base of plants. See planting details.

Median Specific Characteristics

Design with experiential progression in mind.

• Create multiple groups of complementary plant materials (Group A, Group B, Group C). Begin to establish patterns by alternating plant groups (aba- aba, aba-aca-aba, etc.). Multiple plant groupings and establishment of perceptible patterns are particularly important on long linear projects. A break n the pattern can be used to create a focal point or emphasis.

• Design with speed and scale in mind. Lengthen plant groups and individual spacing of major design elements on high speed corridors.

• Use the ends and center of projects to create an impacting experience. Medians will be experienced from both sides by users traveling in opposite directions. Be sure to account for direction of travel and whether travelers are entering or leaving the city.

Design based on median width

• Median widths < 15' wide may not receive a tree that matures at larger than 4" in caliper. See GDOT guide.

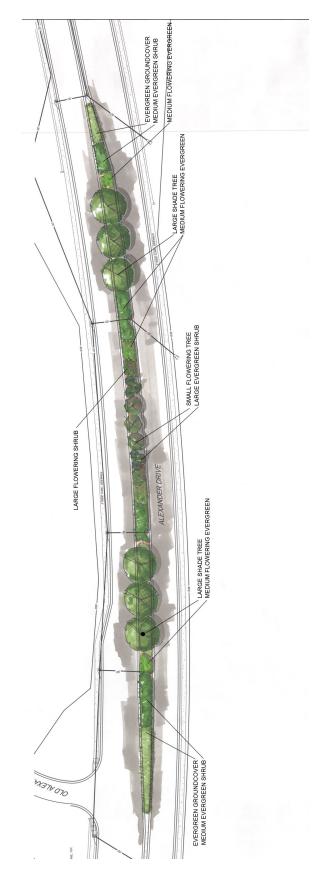
- Median widths 15'-35' wide shall have one row of trees max.
- Median widths 35'+ may have multiple rows of trees.

Narrow medians

• Construction of medians less than 6' wide should be avoided where possible.

• Landscape medians should not be less than 8' wide.

• Medians less than 8' wide should be addressed with approved hardscape material. Clay pavers or stamped/stained concrete are preferred. Clay/brickpa vers are not allowed in GDOT R/W.



Rep ating similar elements throughout the design corridor help to create bt h variety and unity.



Pavers installed in a narrow median restrained b concrete curb



Paver joints shall b swep with pl ymeric sand to p event weed growth and overall maintenance reqi red.

Pavers

• When pavers are used in a project, they shall be set on a 4" graded aggregate base course and graded to provide positive drainage.

• Joints shall be swept with polymeric sand and surface treated with pre-emergent herbicide immediately following installation.

• Where pavers are installed adjacent to a curb, surface of pavers should be installed flush with top of curb. A ³/₂ pre-formed expansion joint shall be provided at curb paver interface. Metal or masonry edge restraint shall be used where edge of paver area is not bound by a structural element.

• Paver color shall be determined by preexisting materials within corridor or established design pattern for gateway or corridor.

• No debris or liquid waste from masonry or other construction shall be placed or disposed of in proposed planting areas or area existing plants.

Plant Palette

Botanical Name	Common Name	Min.S ize Installed	Xeric
Large Trees			
Acer buergerianum 'Valynor'	Trident Maple	4" CAL	YES
Nyssa sylvatica 'Wildfire' or 'Green	Black Gum	4" CAL	YES
Gable'			
Quercus hemisphaerica	Darlington Oak	4" CAL	
Quercus phellos 'Hightower'	Hightower Willow Oak	4" CAL	
Taxodium distichum	Bald Cypress	4" CAL	YES
Ulmnus parvifolia 'Bosque'	Lacebark Elm	4" CAL	
Ulmnus americana 'Princeton'	American Elm	4" CAL	
Ginkgo biloba	Ginkgo	4" CAL	
Small Trees			
	Den en Denle Mensle	102 102 0 80	-
Acer griseum	Paper Bark Maple	10'-12' B&B	YES
Chionanthus virginicus	Fringe Tree	10'-12' B&B	
Juniperus virginiana	Eastern Red Cedar	10'-12' B&B	YES
Lagerstroemia sp.	Crape Myrtle	10'-12' B&B	YES
Magnolia grandiflora 'Alta' or 'Little Gem'	Dwarf Southern Magnolia	10'-12' B&B	
Prunus x yeodensis	Yoshino Cherry	10'-12' B&B	
Large Shrubs			
Azealea indica 'G.G. Gerbing' or 'George Tabor'	Indica azalea	7 GAL	
Camellia japonica	Japonica Camellia	7 GAL	1
Forsythia x intermedia	Golden Bells	7 GAL	
Ilex x 'Nellie R. Stevens'	Nellie R. Steven's Holly	7 GAL	1
Ilex x 'Savannah'	Savannah Holly	7 GAL	YES
Illicium parviflora	Anise tree	7 GAL	1
Loropetalum 'Burgundy'	Burgundy Loropetalum	7 GAL	
Myrica cerifera	Southern Wax Myrtle	7 GAL	YES
Osmanthus fragrans	Fragrant Tea Olive	7 GAL	1
Viburnum tinus	Laurestinus	7 GAL	YES
Vitex agnus-castus	Chaste Tree	7 GAL	1

Botanical Name	Common Name	Min.S ize Installed	Xeric
Small Shrubs			
Abelia grandiflora	Dwarf Abelia	3 GAL	1
Azalea x 'Encore'	Encore Azalea	3 GAL	
Berberis thunbergii sp.	Japanese Barberry	3 GAL	
Ilex cornuta	Carissa Holly	3 GAL	YES
Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	3 GAL	YES
Loropetalum chinensis 'Emerald Snow'	Emerald Snow Loropetalum	3 GAL	
Loropetalum chinensis 'Ever Red Sunset'	Ever Red SunsetLoropetalum	3 GAL	
Panicum virgatum	Panic Grass	3 GAL	YES
Pennesetum alopecuroides	Hameln's Dwarf Fountain Grass	3 GAL	
Raphiolepis indica	Indian Hawthorne	3 GAL	YES
Raphiolepis umbellata 'Minor'	Dwarf Yedda Hawthorne	3 GAL	YES
Rosa x Knockut	Knock ut Rose	3 GAL	YES
Groundcover			
Hemerocallis sp.	Daylily	1 GAL	YES
Juniperus sp.	Juniper	1 GAL	YES
Liriope sp.	Lilyturf	1 GAL	
Loropetalum chinensis 'Daruma Dwarf' or 'Peack	Dwarf Daruma or Purple Pixie Loropetalum	1 GAL	YES
Trachelospermum asiaticum	Asiatic Jasmine	1 GAL	YES
Gardenia x 'Radicans'	Dwarf Gardenia	1 GAL	
Veronica peduncularis 'Georgia Blue'	Georgia Blue Speedwell	1 GAL	

Turf Grasses

- Preferred turf grass for beautification projects shall be Palisades Zoysia.
- Other species of grass including Centipede and Bermuda may be considered pending site location and micro climatic conditions.
- Certification of grass species by submission to project Landscape Architect or Augusta Tree and Landscape Maintenance Department will be required prior to installation.

Installation Methods

See detail section in appendix for complete library of approved details for inclusion in plans submitted for approval.

Planting Beds Preparation

• All plants shall meet the requirements set forth in the American Standards for Nursery Stock (ANSI Z.60). All plants shall be installed at the sizes specified by the approved landscape plan and will not be accepted otherwise.

• Prior to installation, all plant material shall be inspected by the Landscape Architect. Contractor shall have sole responsibility for coordinating preinstallation inspection. Plant labels including genus, species, and cultivar shall remain attached to each plant until reviewed and approved by the Landscape Architect. Substitution due to plant availability requires the approval from the Landscape Architect.

• Plant material shall be balled and burlapped or container grown as specified. No container grown stock will be accepted if it is root bound. All plastic or synthetic root wrapping material shall be removed at time of planting. Burlap should be pulled back approximately one third of root ball height, in order to discourage wick ng of moisture from the rootball.

• Plant material should not be stored on site without being installed within 24 hours unless temporary irrigation and shade are provided. Root balls of plant material delivered to site shall not be allowed to dry out before installation.

• All plants shall be hand watered thoroughly twice during the first 24 hours after installation. After planting, all trees, shrubs, and grass shall be watered week y or as necessary to maintain the equivalent of one inch of absorbed water per week

• Prior to planting, the location of all plant



All synthetic material will b removed from the root b lls of b ants at the time of installation.



Remove the topl 3*of* br *laff* rom the rootbl *l* during *installation.*



Tempr ary p antings or other p otection are required, if p ant materials are not installed within **A**hour s.



Landscap d areas should b graded to encourage drainage and p event pddl ing.



Bedlines shall b created with a three inch deeps hovel cut edge.



Nylon strap with shock ab orb ng compne nts should b used to securely b ace new trees.

material is to be stake d and approved by the Landscape Architect.

• Planting beds shall have a minimum slope of 2% to encourage positive drainage and discourage saturated root systems. Supplement areas with suitable topsoil if needed to provide positive drainage.

• The landscape contractor shall provide fertilizer, pre-emergent herbicide, lime topsoil and planting mixture as per the installation specifications.

• Bed lines shall have a three inch deep shovel cut trench edge where mulch meets grass, concrete walks or curbs unless otherwise specified. Bed lines shall be smooth and continuous and be within a reasonable location and shape as illustrated on plans. Place mulch under plants and into bed line trenches.

• Planting bed areas shall be treated with Round-up or equal herbicide spray, by a licensed herbicide applicator and left undisturbed for 7 days prior to beginning excavation and prep. There shall be no weeds or grass clumps in excavated median prior to topsoil placement. Contractor shall also schedule a time for Landscape Architect to observe finished excavation prior to placement of planting soil.

• Contractor shall be responsible for full landscape maintenance through a thirty day maintenance period following the date of final completion. At completion of the thirty day period the owner will be responsible for all maintenance and watering.

• Contractor is responsible for the cleanup of all containers, pallets, debris, etc. resulting from his/her work

• All plant material, including turf grass shall be warranted for a period of one year. Warranty does not include acts of God or vandalism.

General Tree Planting

• Nylon strap with shock absorbing components and wooden stak s shall be used for all tree support stak ng. Pull straps tight, but do not over tighten.

Plant root ball 1"-2" above existing grade.

• Mark the north facing side of the tree prior to initial digging. Using the mark ng install the tree in the same orientation as it was excavated.

• Tree rings shall be created using 2"-4" deep organic mulch installed at a minimum of 8 -10' in width. A 2" high earthen saucer of native soil shall be created near the edge of the mulch ring to better retain water.

• If present, the wire bask t shall be completely removed from the root ball and burlap shall be pulled back one third of the height of the root ball.

• Tree installation pit shall extend a minimum of 12" beyond the root ball along the flat undisturbed bottom of the pit. Diameter of the top of the tree pit shall be at minimum two times the width of the root ball.

• Grade backfill of tree pit away from the base of tree to provide positive drainage.

• Central leader shall never be pruned.

Evergreen Tree Planting Detail

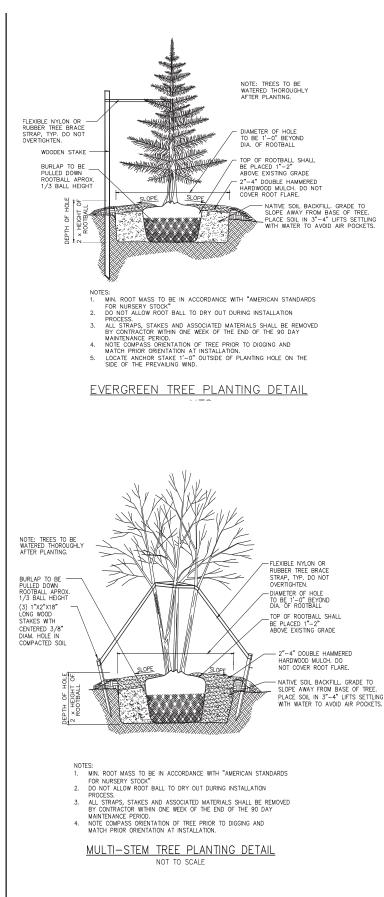
• One support stak shall be driven into the ground at 1'-6" away from the edge planting hole on the side of the prevailing wind. A nylon strap with shock absorbing components shall be attached from the tree to the stak for support. All straps and stak s shall be removed within one week of the end of the 9 day maintenance period.

Multi Trunk Tree

Tree stak ng should be done with 1"x2"x18
 long wood stak s in compacted soil. Nylon straps with shock absorbing components should be wrapped to multiple trunk per strap and then secured to a stak in order that each main trunk is anchored against the wind. All straps and stak s shall be removed within one week of the end of the 9 day maintenance period.

Typical Tree Planting Detail

• Tree stak ng should be done with $1^{"x}2^{"x}18$ long wood stak s in compacted soil. Nylon straps with shock absorbing components should brace the tree in three directions from the lowest set of branches to the stak s. All straps and stak s shall be removed within one week of the end of the 9 day maintenance period.





Percolation tests should b p rformed to determine whether sup emental drainage is required.



Rocky or deb is laden soils shall req i re excavation to a dep h of no less than \mathcal{I} .



Si *l* samp es shall b tested to determine whether soil amendments are necessary.

Shrub Installation Detail

• Plant top of root ball at or just above finish grade.

• Lay out beds as illustrated on plan. Fill in planting bed with triangular spaced plants measured from center to center.

• Planting hole shall be minimum 1' outside of root ball at surface and wider at the top than at the bottom.

Median Plant Spacing Detail

• This detail is required in all GDOT Rightsof Way. No shrub shall be planted closer than 3' from the face of curb. Groundcovers shall not be planted closer than 18 to face of curb.

• Sod shall not encroach closer than 2' from adjacent plantings and shall be defined by a 3" deep shovel cut bed edge.

• Use triangular plant spacing as shown in detail.

Soil, Planting Media Preparation

Establish Rate of Percolation

• Test percolation by excavating an 18 deep hole and filling it with water. If percolation of the water from the hole tak s more than 24 hours, percolation is insufficient and soil amendment and improvement should be undertak n.

• Soil samples shall be taken to the local County Extension Agency for testing. Soil amendments shall be added as recommended by testing agency.

• In cases where the existing soil has a high rock or debris content or fails the percolation test, excavation and replacement of soil media will be necessary.

• In excavation and replacement scenarios, no less than 12", and preferably 18 or more of soil should be removed throughout the project area.

• When replacing soil, care should be take n that the subsoil be left in a manner that promotes positive drainage, by insuring slope of 2% or more to a drainage structure and relatively consistent surface without pot holes or low points intermediate.

• Finished grades of imported soil should be left 1" minimum below any curb or other hardscape in an attempt to provide a clean, flush edge between top of concrete and abutting sod or mulch. Imported soil should be finish graded to provide positive drainage across surface. See "Sod Installation Detail".

• The imported topsoil shall meet the attached criteria and a sample shall be submitted to the Landscape Architect in a 1 gallon re-sealable plastic bag for approval prior to installation.

Underdrains/Sewer tie-ins

• Where possible, French drains should be installed at the subsurface to enhance drainage.

• French drains should be tied to storm sewer at an existing drainage structure by core drilling. When grades are prohibitive, or there is no available structure into which to tie French drains, the use of rock sump areas will be accepted. See detail.

• Under drains are recommended in all medians, however, in areas where existing soils pass percolation test and further excavation is not required due to poor existing soil material, french drains will not be required.

Irrigation

• Irrigation is preferred in the design of all beautification projects. GDOT does not allow irrigation within medians without a variance and has requirements for its installation on roadway shoulders. See the attached GDOT manual for further reference to irrigation requirements and variance process.

• The Augusta, Georgia municipal government prefers the use of a "smart irrigation system" to reduce the waste and danger of water on roadways. Smart irrigation systems are equipped with an anemometer to monitor wind speeds, a thermometer to determine possibility of freezing, and pressure loss sensors to eliminate waste in a pipe burst scenario, as well as, moisture and rainfall monitoring in order to efficiently and



French drains are suggested in all median beautification projects.



The Calsense controller monitors many site conditions to *p* eserve water during.



Calsense controllors can b monitored b a central compt er.



Irrigation b water truck is one method of estab ishing b ants in a xeric landscap.



Drip rrigation $\mathbf{b}gs$ are another op ion for use during the estab ishment \mathbf{p} riod for xeric landscap s.



Directional drilling is the p eferred method of p oviding irrigation and pw er access to areas installed without sleeves or conduit.

safely distribute water to plants as needed. ARC is equipped with the Calsense line of smart irrigation controllers and operating software. All proposed controllers shall be compatible with this system.

Standard Irrigation

• Standard irrigation projects will employ a Calsense smart irrigation system link d to city control. The Calsense installation requirement is driven by project size and budget. Contact Augusta Beautification Committee for information on possible variance.

• Augusta Utilities Department is often amicable in offering in-k nd donations of water utility installation and water service. In most circumstances, when AUD mak s in-k nd donations AUD installs water lines from a needed tap to the water meter. Irrigation designer or Landscape Architect shall coordinate with AUD civil engineer to coordinate efficient layout, tap locations, and supply line sizing.

• Contractors are encouraged to contact the area Calsense Representative for assistance in installation and setup of the Calsense irrigation system, particularly the controller, associated sensors and programming.

Xeric Plantings

• Xeric planting scenarios are designed for minimal water use. While not preferred, the use of xeric landscaping is allowed under this guideline where standard irrigation is not available or not allowed.

• See plant palette for approved plants for xeric landscapes.

• Xeric landscapes shall receive irrigation in an amount equal to 1" rainfall each week for the first year of installation. This can be accomplished through temporary use of an irrigation system or by use of a water truck

Directional Drilling and Boring

• In order to avoid the necessity of drilling or boring, all new-construction projects shall include 2-6" dedicated sleeves for irrigation access to any

location that creates an enclosed landscaped area. This shall include but is not limited to, landscaped medians, park ng lot islands, driveways at street yard crossings, foundation planting areas, etc.

• On existing sites or in areas where there is no irrigation access provided, boring and directional drilling are preferred to open cuts. Any project under GDOT jurisdiction will require a utility encroachment permit in addition to the special encroachment permit. Without a variance, sleeving will also be required to be Schedule Θ PVC within the R/W.

• Augusta, Georgia requires minimum 48" cover over all roadway drilling or boring. Jack and bore pits will be a minimum of 36" from the edge of pavement /back of curb. No road or driveway shall be open cut without authorization from the Traffic Engineer.

• In the event that the required minimum cover cannot be achieved due, contractor shall notify project Landscape Architect and Augusta Engineering Department.



All landscaped areas confined by hardscapes should be *p* ovided with access via sleeves *upn i* nstallation.



Op n cuts shall *b* avoided at all costs through the use of sleeving and directional drilling.



Sponsor signage may be displayed for limited times with approval of the Augusta Beautification Commitee.



Augusta Convention and Visitors Bureau has established a Welcome and Wayfinding sign program.

Signage

Sponsor Signage

• Sponsor recognition signage will be allowed in the form of removable signs with sponsor logos. Sponsor Signage will be allowed to be displayed at the project during initial installation through completion, during Early April, and by request of the Sponsor for special events. Requests should be sent, in writing, to the chair of the Augusta Beautification Committee.

Program Signage

• Program signage will be installed permanently in each project completed as part of the Augusta Beautification Program.

• Program signage will identify the project as a part of the Augusta Beautification Program, and refer readers to the program website, which will list all parties involved in the project, project bio and statistics, before and after pictures, and information on becoming a part of the program.

Welcome and Way Finding Signage

• Welcome to Augusta and District Wayfinding signage installation is an ongoing project of the Augusta Convention and Visitors Bureau. Many of the welcome sign locations will be accompanied by landscaping to create 'Beauty Spots' and are available as project locations for potential sponsors.

Permit Process

GDOT

When proposed project is on the R/W belonging to the GDOT, the project will have to be approved by GDOT in addition to the local permitting process. The standard process for landscape improvements in the GDOT R/W incudes a special encroachment permit issued through the District Access Management Office. A landscape review will also be required through the GDOT landscape office.

• Medians are the most restricted area of landscaping with heavy restrictions on irrigation. Most irrigation in medians requires a Variance approved by the GDOT Commissioner.

• Roadway shoulders and areas outside of the traveled way are less restricted in the use of landscaping and irrigation.

• Refer to Attached GDOT Guide for more information on restrictions and requirements.

GDOT Grant Process

The GDOT offers assistance through grants to local municipalities in the effort to improve local roadways. When awarded a grant, the project does not require an Encroachment Permit. There are however many more requirements that do have to be met, including the Landscape Office Review.

- Concept Meeting
- Concept Report
- Environmental Report
- Design Phase
- Construction Documents
- Bidding
- Construction Management

Augusta, Georgia

Each roadway beautification project will also require completion of the Augusta, Georgia plan approval process. GDOT regulations supersede City requirements, but do not alleviate the necessity of a plan review.

• Land Disturbance Permit and 3-Phase ESPC for Projects will be required for any project or phase with greater than 1 acre of disturbed area. Erosion Control BMPs will be required on all projects regardless of size. No project is exempt.

• When submitting for design review approval, a submittal of 12 full sets of plans shall be delivered to the Augusta Georgia Planning and Development Department. Review fees may be waived by the P&D Department at the Directors' discretion, for projects benefitting the city.

Construction Bidding Process

Projects initiated by the City will follow the standard practice for project procurement. Privately initiated projects with the City as a donor will require the submission of a minimum number of bids. Fully privately funded jobs are free to use any procurement means the owner desires.

Construction Process

Pre-Construction Meeting

A Pre-construction meeting is to be attended by a representative from each city department involved in the project, any state department with jurisdiction, project sponsor, project designer, and contractor. Pre-con shall be scheduled by contractor per Augusta, Georgia standards. Site visits are encouraged as part of the Pre-construction when possible.

Permits

Design permitting shall be the sole responsibility of the Landscape Architect. Construction Phase permits are the responsibility of the Contractor to procure as necessary.

Erosion Control Measures

For projects requiring a Land Disturbing Activity Permit, an erosion control plan will be submitted to the Augusta, Georgia Engineering Department during the design phase. Erosion control BMPs will be the responsibility of the contractor to install and maintain. During construction, all erosion control measures shall be maintained as drawn on the approved plans or as directed by project Landscape Architect or Augusta Traffic Engineering Department. Plans should be red lined, dated to reflect changes and kept available on site throughout construction.

Traffic Control

When necessary, a traffic control plan will be submitted to the Augusta, Georgia Engineering Department during the design phase. In some instances, based on project complexity, as determined by AED, inclusion of appropriate details from the most recent Manual on Uniform Traffic Control Devices will suffice. Traffic control will be the responsibility of the contractor to procure and maintain. During construction, all traffic control measures shall be maintained as drawn on the approved plans or as directed by design engineer or City Traffic Engineer. Plans should be red lined, dated to reflect changes and kept available on site throughout construction.

Construction Observation

Construction observation will be completed by the project Landscape Architect at the frequency established between the Owner and Landscape Architect in the Contract. Landscape Architect will be present for all project milestones, as established in the contract. Augusta, Georgia will also complete site observation as deemed necessary and discussed in the Project pre-construction meeting.

Post Bid Changes

Post bid changes shall be initiated by submittal of Request for Information to project Landscape Architect and appropriate permitting authority. If additional approval is required for requested change, the appropriate submittals will be made by Landscape Architect. Contract drawings shall be red lined and dated. Post bid changes will be negotiated as a change to the contract between owner and contractor or Landscape Architect.

Maintenance Process

As part of the Augusta Beautification Program, project sponsors will be responsible for the installation, monitoring, and maintenance of the landscape improvements, by employing a contracted professional landscape maintenance company. Scheduled maintenance to be performed is to include but not be limited to: mowing, edging, pruning, blowing, litter control, as well as other general maintenance.

Contractor Selection

Qualifications

• Contractors shall have completed at minimum 3 projects of equal scope, complexity and value.

• Contractors shall meet the minimum bonding and insurance requirements per Augusta Beautification Agreement.

• Contact Augusta Beautification Commitee for information on qualified contractors and landscape maintenance companies.

Long-Term Maintenance Plan

Sponsors will be required to commit to providing the maintenance of the project area they wish to adopt. Sponsor shall produce a plan demonstrating provision for the maintenance cost of a contracted professional landscape maintenance company over the entire commitment period. Multiple sponsor projects are encouraged and all participants will sign agreement.

Maintenance Schedule

A scope and frequency of maintenance will be established during the Augusta Beautification Agreement process based on roadway classification (High Visibility/High Maintenance, vice versa). All projects will receive enhanced maintenance in mid-March and Early April. For this reason, minimum biweekly* maintenance visits in the month of March will be required of all projects regardless of roadway classification. Maintenance Company should also complete touch ups during the first full week of April as needed (leaf litter, trash pickup, etc.).

*For the purpose of this document, bi-weekly shall mean every other week.

Growing Season

March-November Requirements Mowing Edging Blowing Deadheading & Fertilizing Flowering Plants Tip pruning and Shaping of shrubs Maintain mulch as needed Weed control Irrigation observation, maintenance, and adjustment Litter/General area cleanup Integrated Pest Management

Dormant Season

December-February Requirements Leaf Control Pruning of Trees and Shrubs Irrigation Maintenance/Seasonal Precautions Litter/General area cleanup Mulch all beds Pre-emergent Herbicide Integrated Pest Management

Maintenance Schedule by Roadway

Classification

Roadway	Growing	Dormant
Classification	Season	Season
	Maintenance	Maintenance
Major Arterial	Bi-weekly	Bi-weekly
Minor Arterial	Bi-weekly	Bi-weekly
Collector	Bi weekly	Monthly
Local	Monthly	Monthly



Regular maintenance will be required at a frequency determined by the roadway classification.

Methods of Payment for maintenance contract

• The Garden City Improvement Fund has been established to facilitate the management of priority corridors. The public may make tax deductible donations and earmark donations for their corridor of choice.

• A group may petition to form a Business Improvement District to in order to maintain their corridor of choice through a Voluntary Tax Assessment.

• In order to begin a sanctioned project, the Augusta Beautification Commitee will require 25% percent of the projected one year maintenance cost to be pledged.

Project Coordination and Installation

Coordination with Site Utilities and Signs

- Execution and installation of the landscape plan shall not be compromised by variations from approved location of site utilities and service connections including:
- Water, sanitary and storm sewer, electric, gas, cable television lines.
- Transformers, cable television and telephone boxes, air conditioning/heating units.
- Street lights, pedestrian lights and related service conduit, ballast/splice boxes.
- Traffic signs and signals.
- Site-use related signs or signature elements.
- Fire department connections, information stations, fire access ways or emergency vehicle access

As-Built Landscape and Irrigation Documents

• As-built documents are required for all landscape and irrigation installation. Contractor shall provide hardcopy and digital copy of as-built drawings to both landscape architect and Augusta Beautification Committee.

Drawings shall at a minimum indicate the following:

• As-constructed site conditions including clear delineation of all variation(s) and changes from approved drawings including location, quantity and specification of all project elements.

Landscape Drawings

Drawings shall at a minimum indicate the following:

- Pre-existing site conditions, including vegetation and other site features to be preserved.
- As-constructed conditions that identify and record the species, quantity and location of plantings.
- Updated Planting Schedule or Index indicating species, specifications and quantities.
- As-built drawings shall be prepared, dated and sealed by a Contractor certified in the State of Georgia.

Irrigation and Water Management Drawings

Drawings shall at a minimum indicate the following:

• As-constructed conditions that clearly identify and record the location, dimension and specification of all system components including heads, pipes, valves, controller(s), sleeves, backflow preventer(s) and water source.

• As-built documents shall be prepared, dated and signed by the Contractor of Record.



Traffic control measures shall be in place during installation and ongoing maintenance.

Contact List

Utilities

For information regarding location of water and sewer lines, GIS information, and coordination for installation, as well as, regarding possible in kind donations of Utility Department labor and equipment, please contact the Augusta Utilities Department.

Tom Weidmeier, Director Augusta Utility Department Phone: (706) 821-1851 Fax: (706) 821-1859 Email: tweidmeier@augustaga.gov

Deanna Davis, Civil Engineer Augusta Utility Department Phone: (706) 821-1851 Fax: (706) 821-1859 Email:ddavis2@augustaga.gov

Traffic

For traffic related concerns on projects within the Augusta, Georgia R/W, contact Steve Cassell. This includes any variance from the GDOT landscape guidelines, traffic control and roadway encroachment, Mowing and Maintenance Agreements, traffic signal or street light utility information, and coordination with proposed projects and transportation master plan.

Steve Cassell, P.E., PTOE Asst. Director of Traffic Engineering 517 Telfair St. Augusta, GA 30901 Phone:(706) 821-1850 Fax:(706) 821-1724 Email: scassell@augustaga.gov

Engineering

For concerns regarding Augusta Georgia erosion control and construction requirements, contact the Augusta Engineering Department.

David Smith, P.E. Stormwater and Construction Engineer 522 Greene St. Augusta, GA 30901 Phone:(706) 821-1706 Fax:(706) 821-1708

Planning & Zoning

For concerns regarding Zoning requirements and permitting procedures, contact Bob Austin at the Augusta Georgia Planning and Development Office.

Bob Austin Zoning Administrator 525 Telfair St. Augusta, GA 30901 Phone: (706) 821-1796 Fax: (706) 821-1806 Email: baustin@augustaga.gov

GDOT Local and District Offices

For projects or portions of projects which are located in a Georgia Dept. of Transportation R/W, GDOT requirements take precedent over local ordinances. For questions on permitting, guideline clarification, on-site meetings, and initiation of variances contact GDOT District 2 Access Management Office. Permits will be issued through the Augusta Area Permit Engineer. Please contact Ronnie Sanders for permit pickup, Pre-construction Meeting coordination, and construction site visit coordination.

Raye Southerland 801 Highway 15 South Tennille, GA 31809 District 2 Access Management Supervisor Phone: (478) 552-4621 Email: rsoutherland@dot.ga.gov

Todd Price District 2 Access Manager 801 Highway 15 South Tennille, GA 31809 Phone:(478) 552-4622 Email: tprice@dot.ga.gov

Ronnie Sanders Area Permit Engineer Route 2, Box 4260 Frontage Road Evans, GA 30809 Phone: (706) 855-3476

Augusta Beautification Committee

To reach the Augusta Beautification Committee with questions or interest in sponsoring a beautification project, contact the Augusta, Georgia Planning and Zoning Office.

Garden City Improvement Fund

Starting in 2010, a public/private partnership between The City of Augusta, the Georgia Department of Transportation, the Augusta Convention and Visitor's Bureau, local businesses and concerned citizens has collaborated on several projects aimed at beautifying the City's major corridors. These efforts have been privately-led by concerned citizens and the Convention and Visitor's Bureau.

For this, we need help and are asking for the public's support through donations to the "Garden City Improvement Fund." Those wishing to Sponsor a project or wanting to help with ongoing maintenance may make a maintenance contribution in the name of the "Garden City Improvement Fund" through the Community Foundation of the CSRA. Donations can be made either on-line or mailed to the following address:

The Garden City Improvement Fund c/o The Community Foundation for the CSRA Post Office Box 31358 Augusta, Georgia 30903

Donations are tax deductible.

Appendix

Construction Details

Brick Paver Detail Evergreen Tree Planting Detail Multi-Stem Tree Planting Detail Standard Tree Planting Detail Shrub Planting Detail Median Plant Spacing Detail Suitable Imported Topsoil Note Sod Installation Detail Sump Area Drainage Detail

Island Planting Bed Berm Detail w/ French Drain

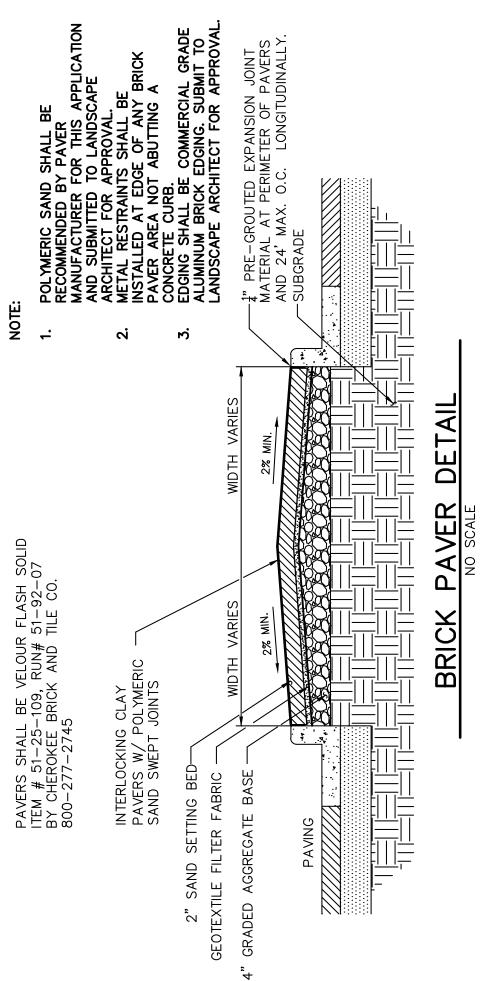
Sample Approved Plan Set

Cover Sheet Index Plan Landscape Plan Sheet 1 of 3 Landscape Plan Sheet 2 of 3 Landscape Plan Sheet 3 of 3 Landscape Notes and Details Irrigation Plan 1 of 3 Irrigation Plan 2 of 3 Irrigation Plan 3 of 3 Irrigation Notes and Details Sheet 1 of 3 Irrigation Notes and Details Sheet 2 of 3

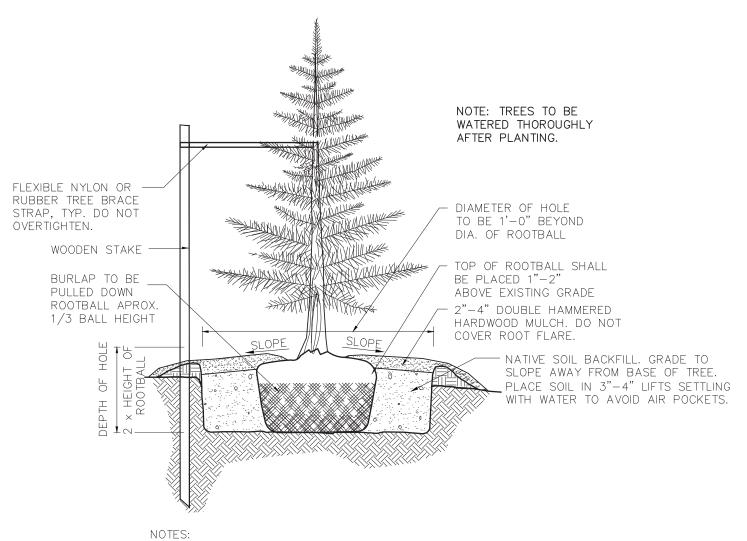
Sample Augusta Beautification Program Agreement

Sample GDOT Landscape Guidelines

CONSTRUCTION DETAILS INCLUDE AS SHOWN ON PLANS SUBMITTED FOR APPROVAL

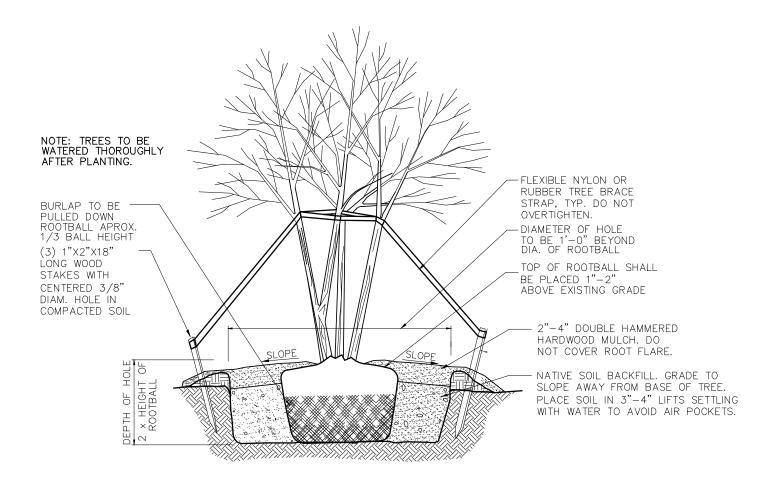






- 1. MIN. ROOT MASS TO BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK"
- 2. DO NOT ALLOW ROOT BALL TO DRY OUT DURING INSTALLATION PROCESS.
- 3. ALL STRAPS, STAKES AND ASSOCIATED MATERIALS SHALL BE REMOVED BY CONTRACTOR WITHIN ONE WEEK OF THE END OF THE 90 DAY MAINTENANCE PERIOD.
- 4. NOTE COMPASS ORIENTATION OF TREE PRIOR TO DIGGING AND MATCH PRIOR ORIENTATION AT INSTALLATION.
- 5. LOCATE ANCHOR STAKE 1'-0" OUTSIDE OF PLANTING HOLE ON THE SIDE OF THE PREVAILING WIND.

EVERGREEN TREE PLANTING DETAIL NTS



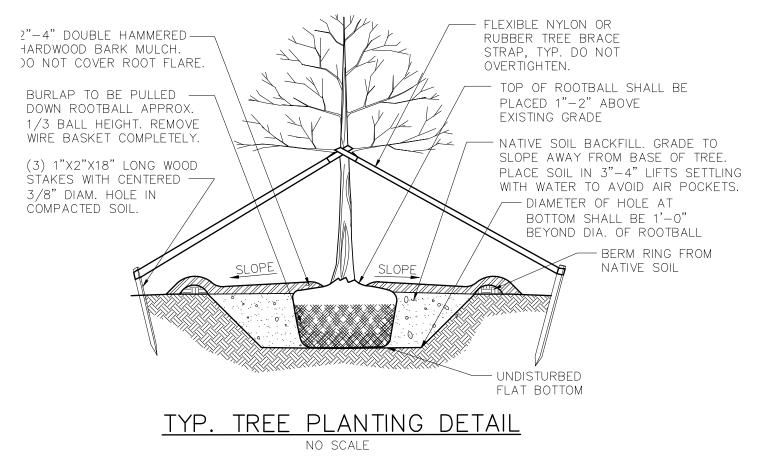
NOTES:

- 1. MIN. ROOT MASS TO BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK"
- 2. DO NOT ALLOW ROOT BALL TO DRY OUT DURING INSTALLATION PROCESS.
- ALL STRAPS, STAKES AND ASSOCIATED MATERIALS SHALL BE REMOVED BY CONTRACTOR WITHIN ONE WEEK OF THE END OF THE 90 DAY MAINTENANCE PERIOD.
- 4. NOTE COMPASS ORIENTATION OF TREE PRIOR TO DIGGING AND MATCH PRIOR ORIENTATION AT INSTALLATION.

MULTI-STEM TREE PLANTING DETAIL

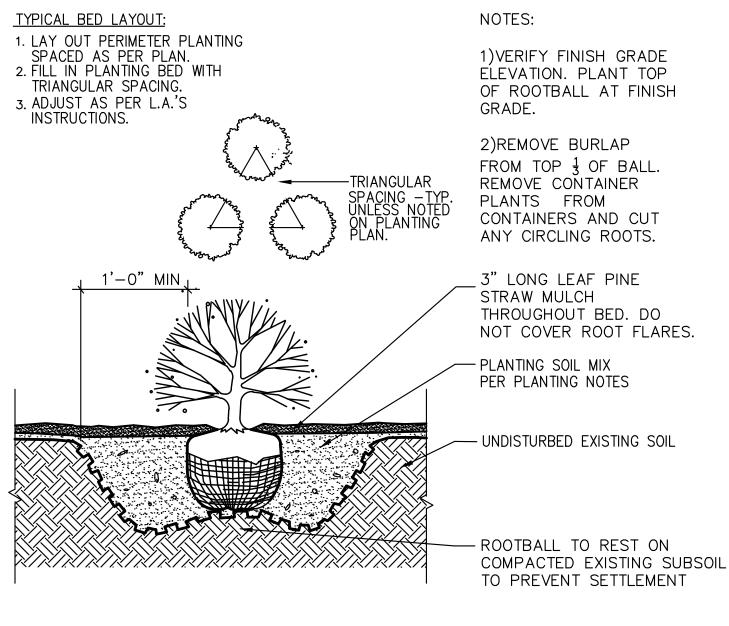
NOT TO SCALE

NOTE: TREES TO BE WATERED THOROUGHLY AFTER PLANTING.



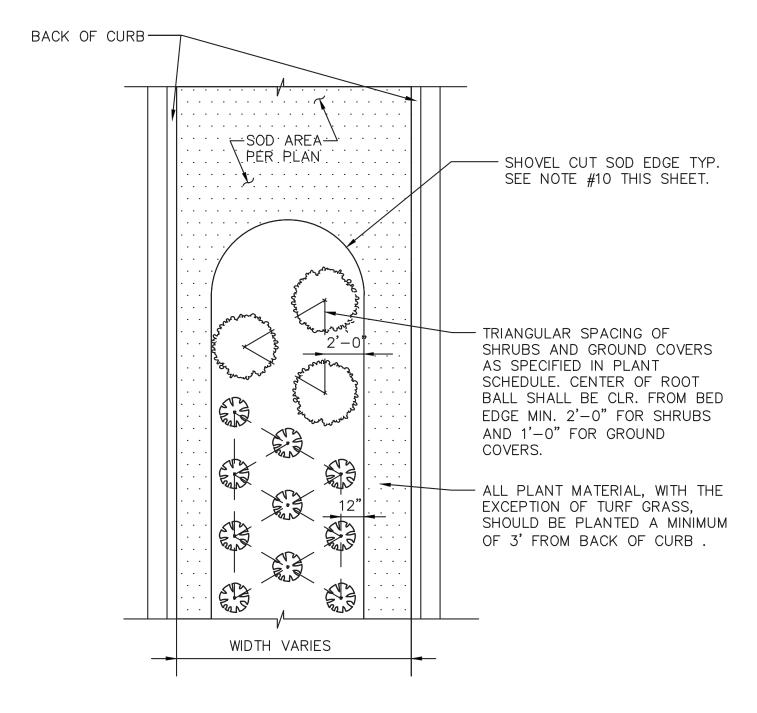
NOTES:

- 1. MIN. ROOT MASS TO BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK"
- 2. DO NOT ALLOW ROOT BALL TO DRY OUT DURING INSTALLATION PROCESS.
- 3. ALL STRAPS, STAKES AND ASSOCIATED MATERIALS SHALL BE REMOVED BY CONTRACTOR WITHIN ONE WEEK OF THE END OF THE 90 DAY MAINTENANCE PERIOD.



SHRUB PLANTING DETAIL

NOT TO SCALE



MEDIAN PLANT SPACING DETAIL

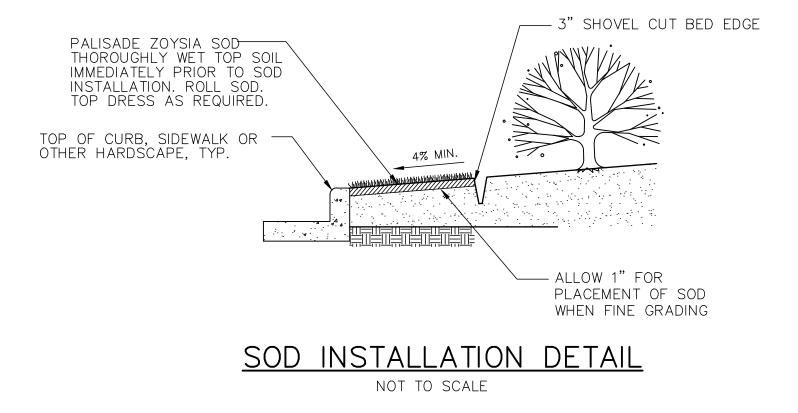
SUITABLE IMPORTED TOPSOIL

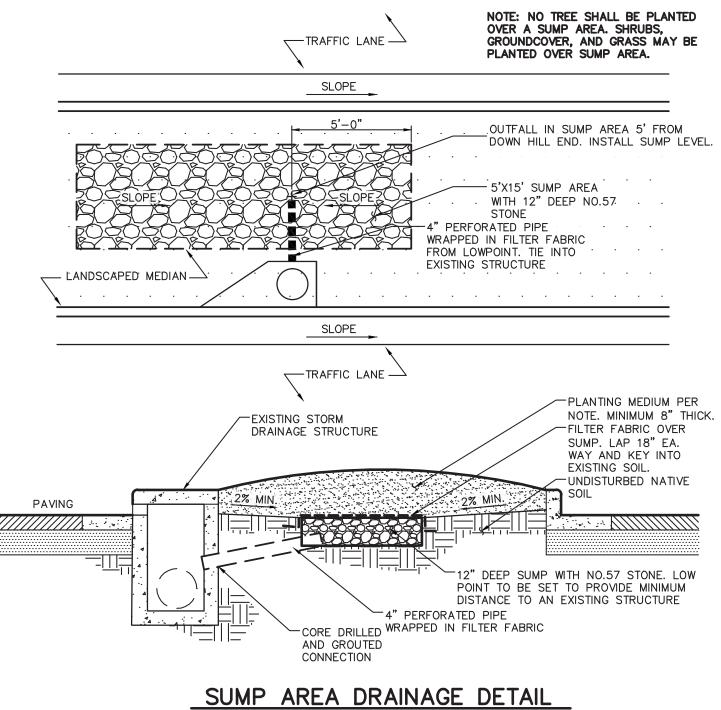
- 1. A MIXTURE OF APPROVED TOPSOIL, SAND, AND ORGANIC MATERIAL MIXED TO MEET THE FOLLOWING SPECIFICATION.
- 2. PARTICLE SIZE DISTRIBUTION ACCORDING TO U.S.D.A. PARTICLE CLASSIFICATIONS:

PARTICLE GRAVEL FINE GRAVEL VERY COARSE SAND COARSE SAND+ MEDIUM SAND FINE SAND VERY FINE SAND SILT CLAY SIZE (MM) >4.75 2.00-4.75 1.00-2.00 0.50-1.00 0.25-0.50 0.1-0.25 0.05-0.10 0.002-0.05 <0.002 ALLOWABLE LIMIT MAX. 3% MAX. 10%

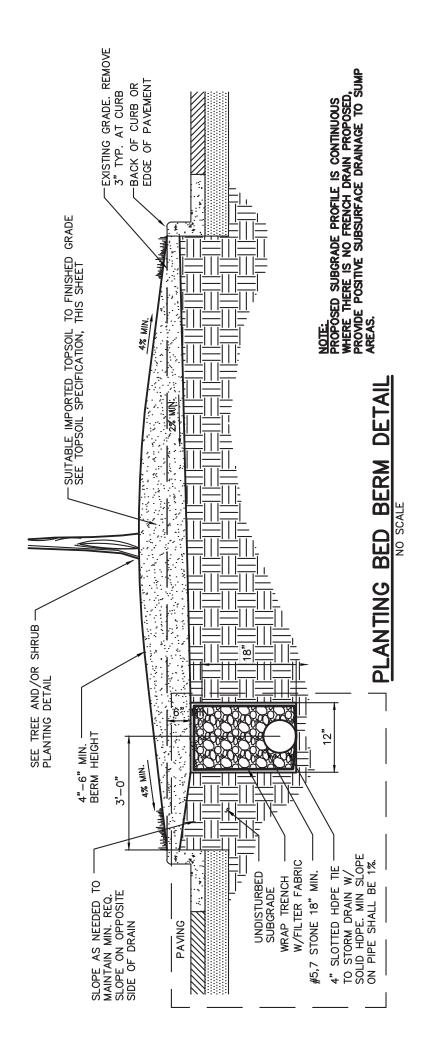
> COMBINED 50-75% 5-15% 0-10% 10-20% 10-20%

- 3. THE U.S.D.A. SOIL TEXTURE CLASS SHALL BE A SANDY LOAM, WITH NO MORE THAN 75% SAND AND NO MORE THAN 15% COMBINED SILT+CLAY.
- 4. THE ORGANIC MATTER SHALL BE 8 TO 15%.
- 5. DEPTH OF MIX AS INDICATED ON DRAWINGS.
- 6. CONTRACTOR SHALL PROVIDE A SUBMITTAL OF THE TOPSOIL MATERIAL IN A ONE GALLON RESEALABLE PLASTIC STORAGE BAG TO THE LANDSCAPE ARCHITECT FOR APPROVAL. CONTRACTOR SHALL ALSO PROVIDE A SOIL TEST BY AN APPROVED TESTING AGENCY OF THE PROPOSED MATERIAL FOR LANDSCAPE ARCHITECT APPROVAL.

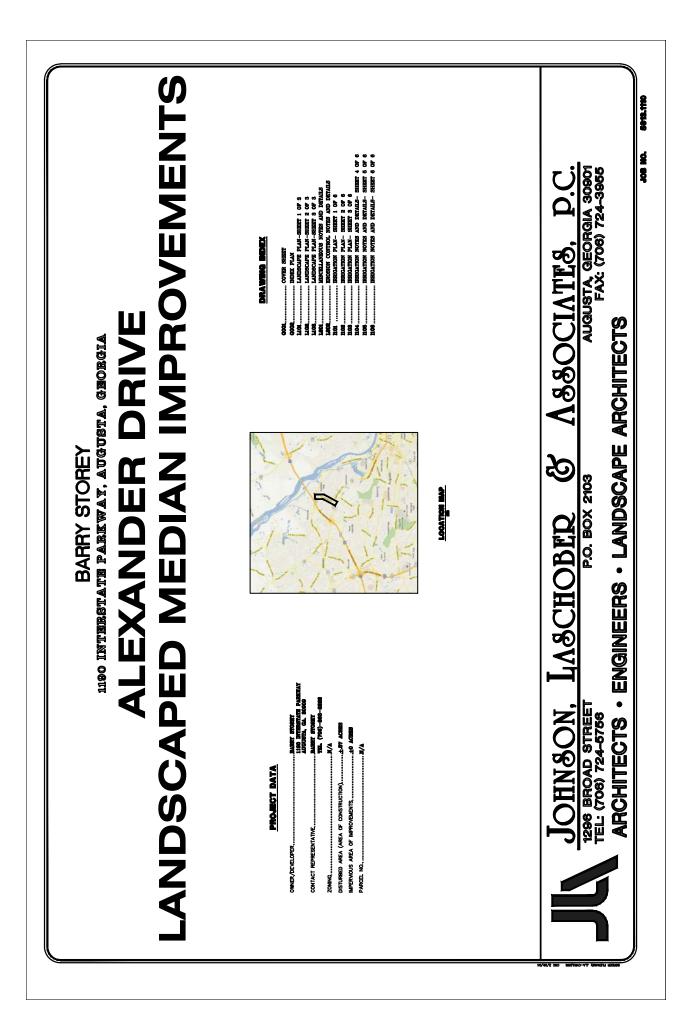


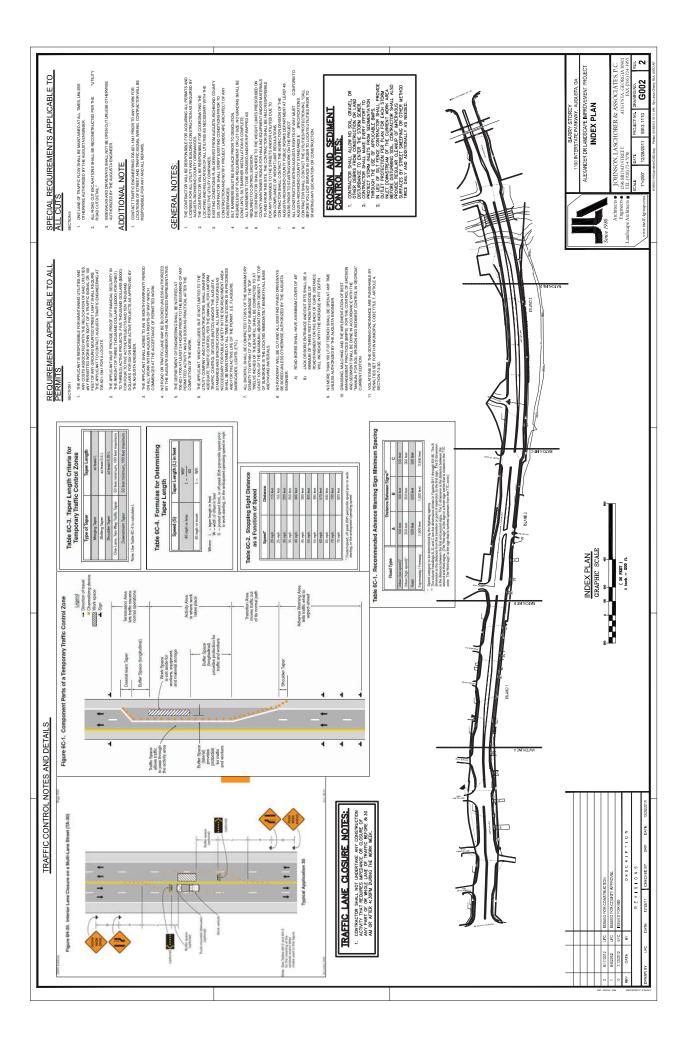


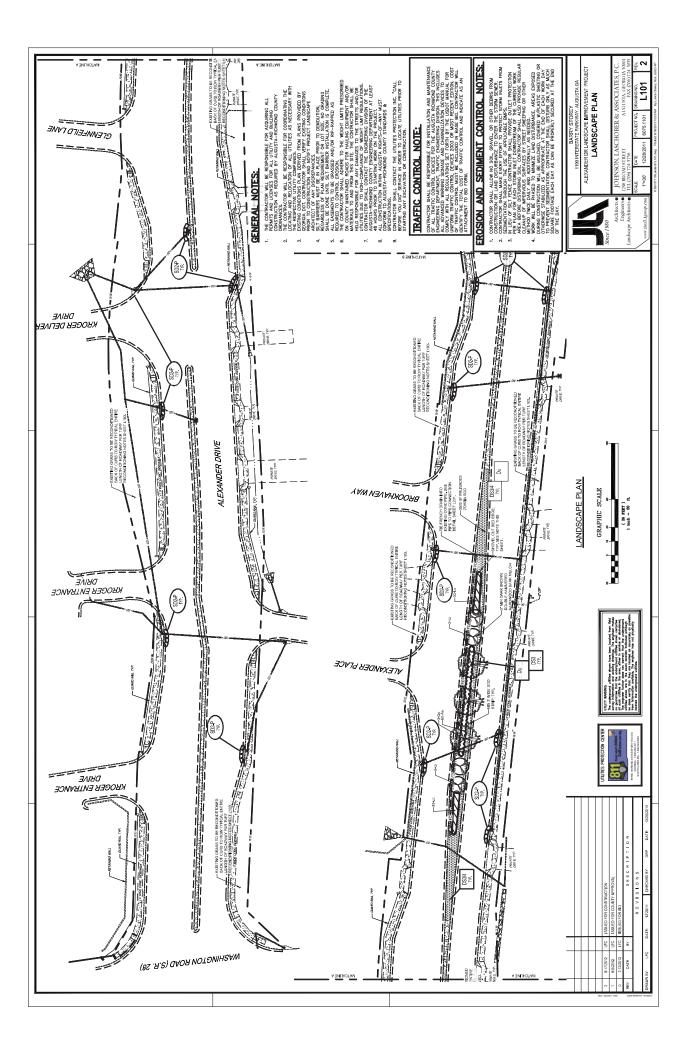


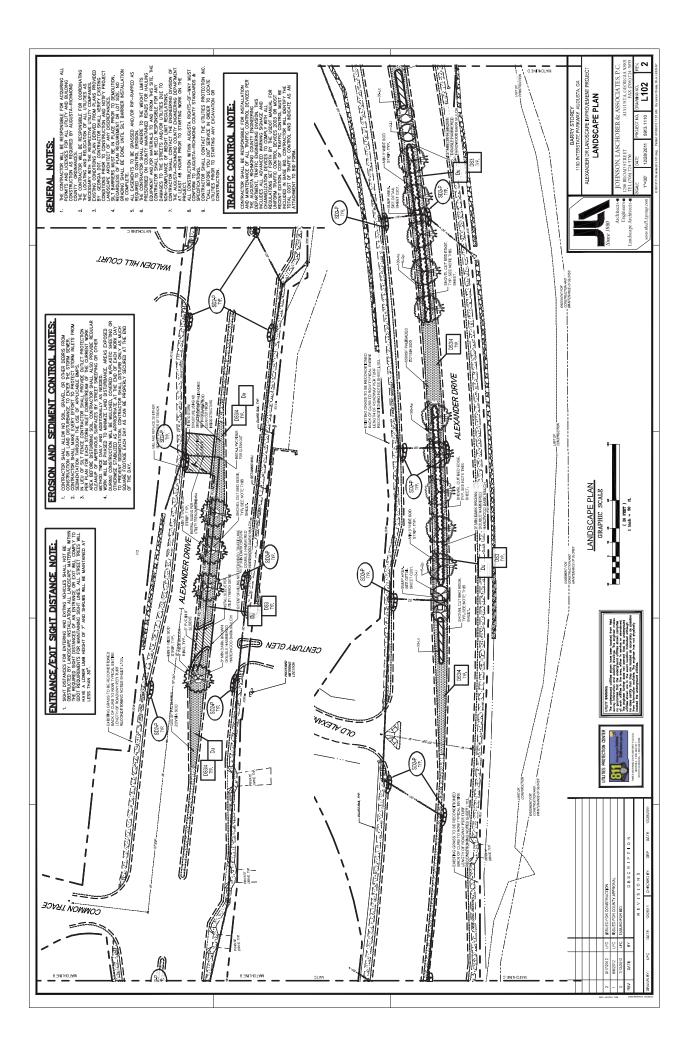


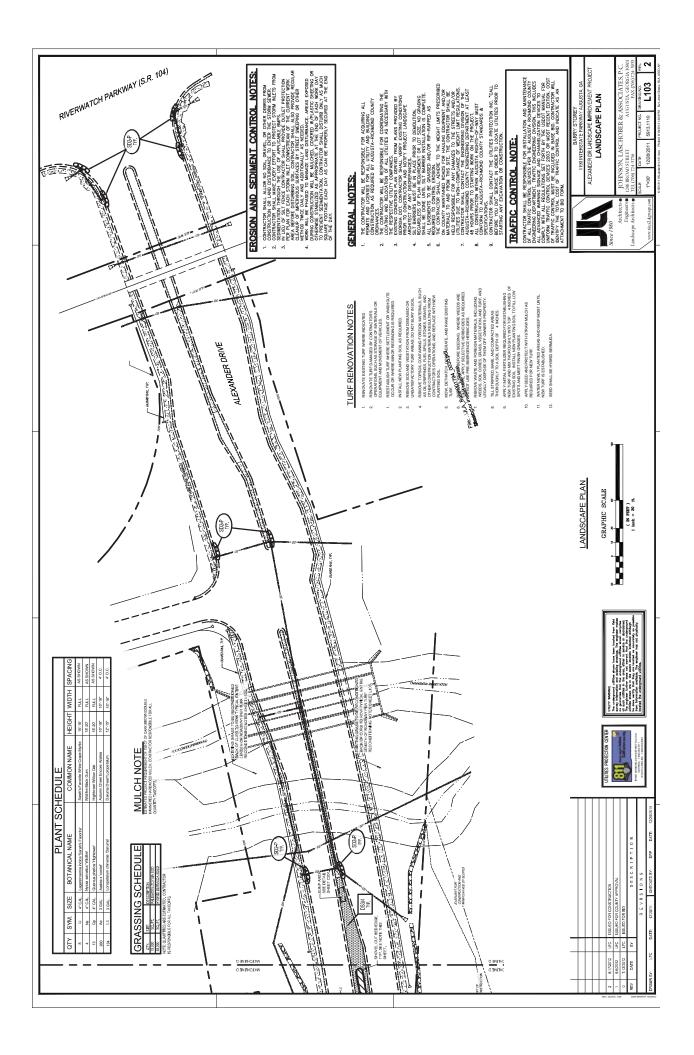
SAMPLE APPROVED PLAN SET FOR REFERENCE ONLY, MOST RECENT DEVELOPMENT CODES APPLY

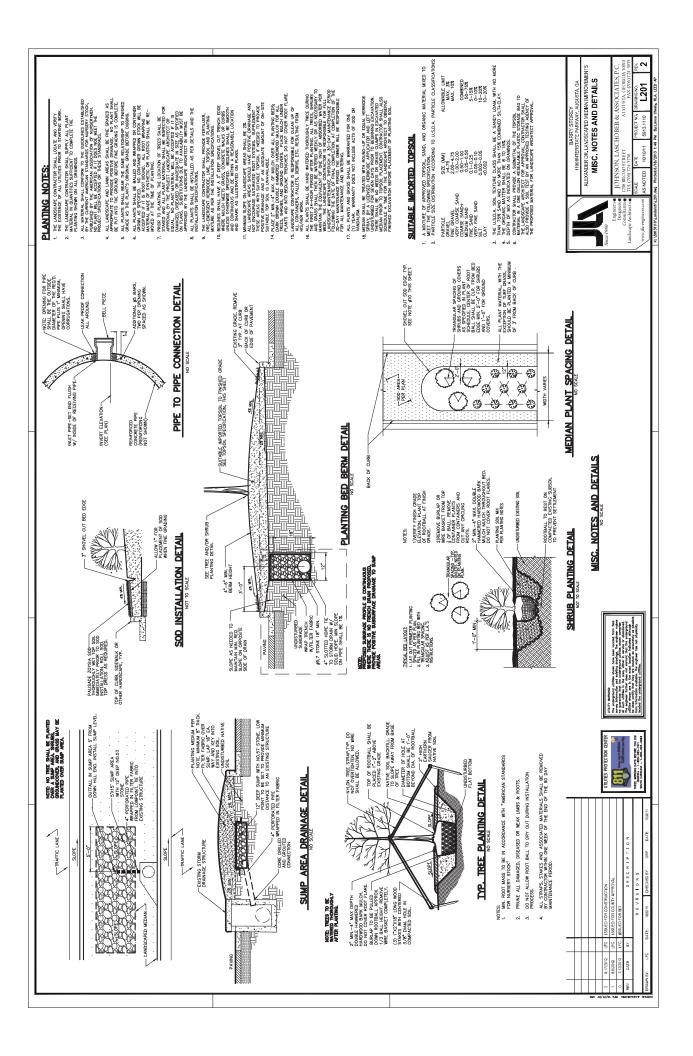


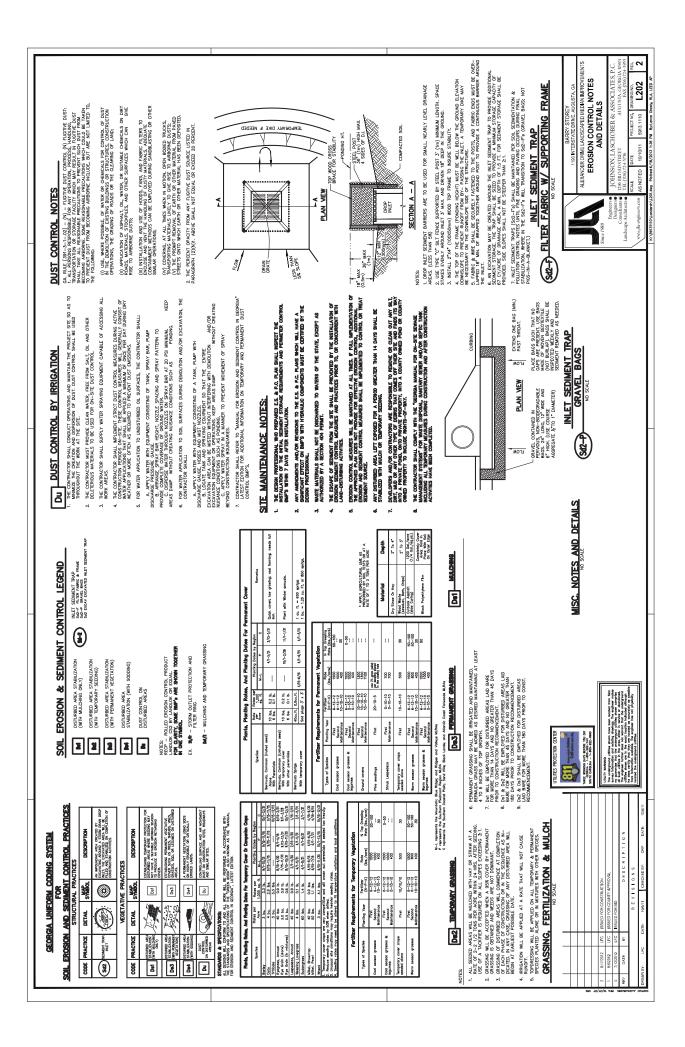


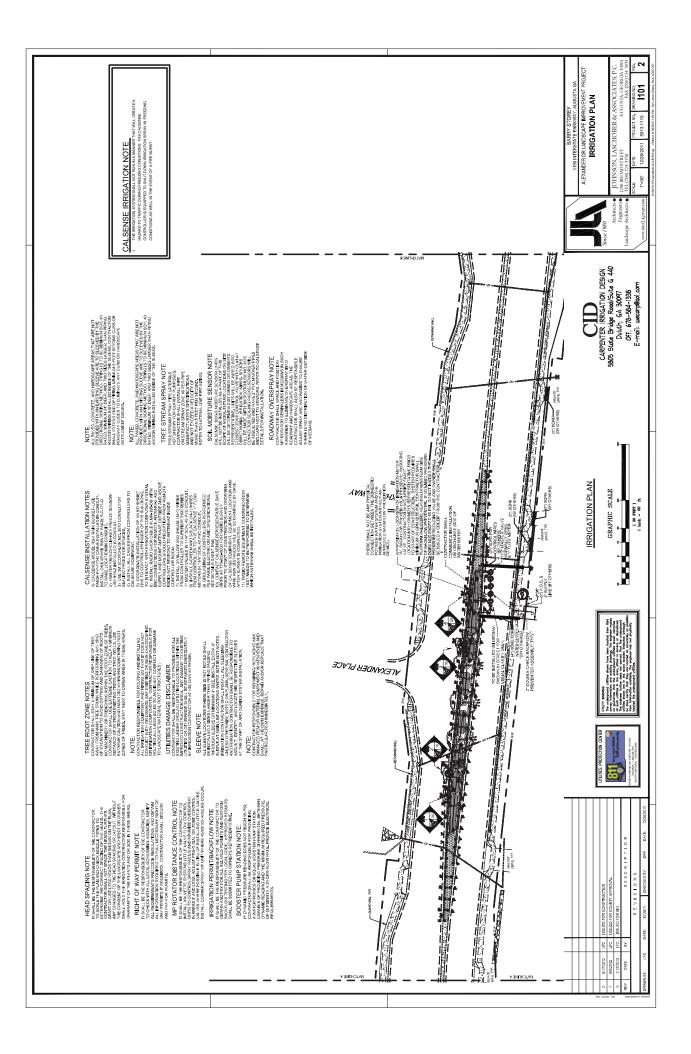


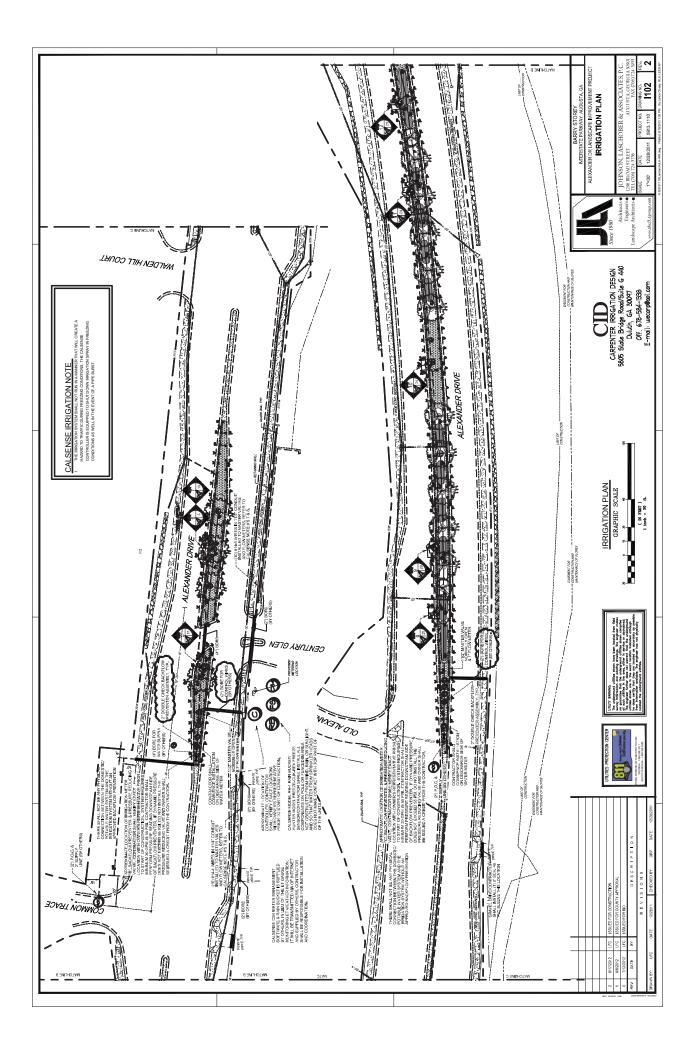


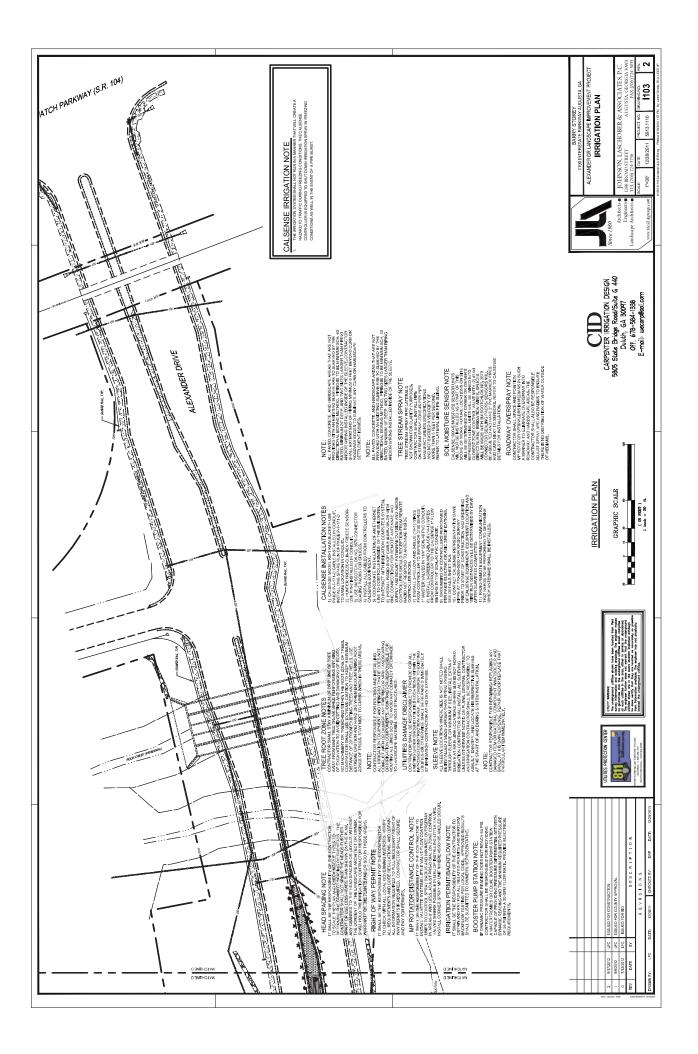


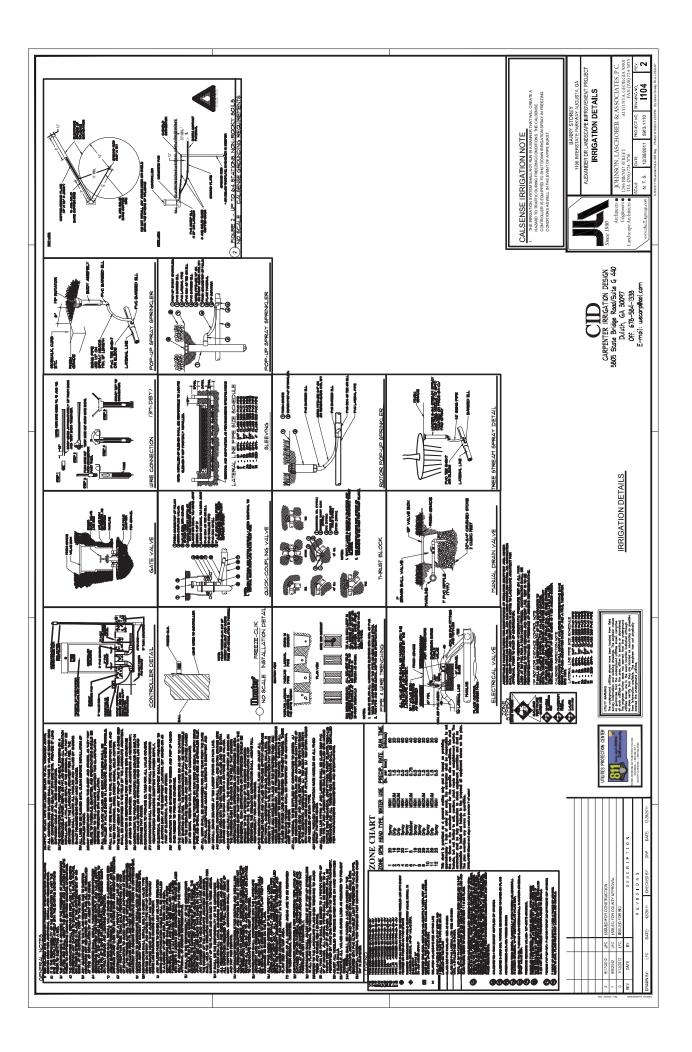


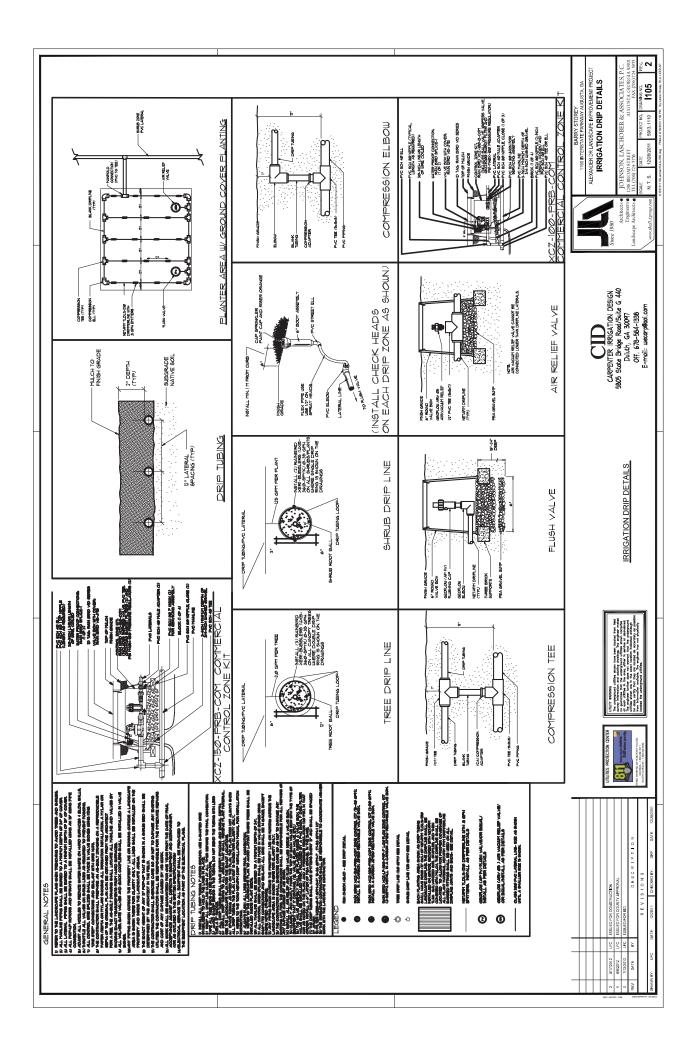


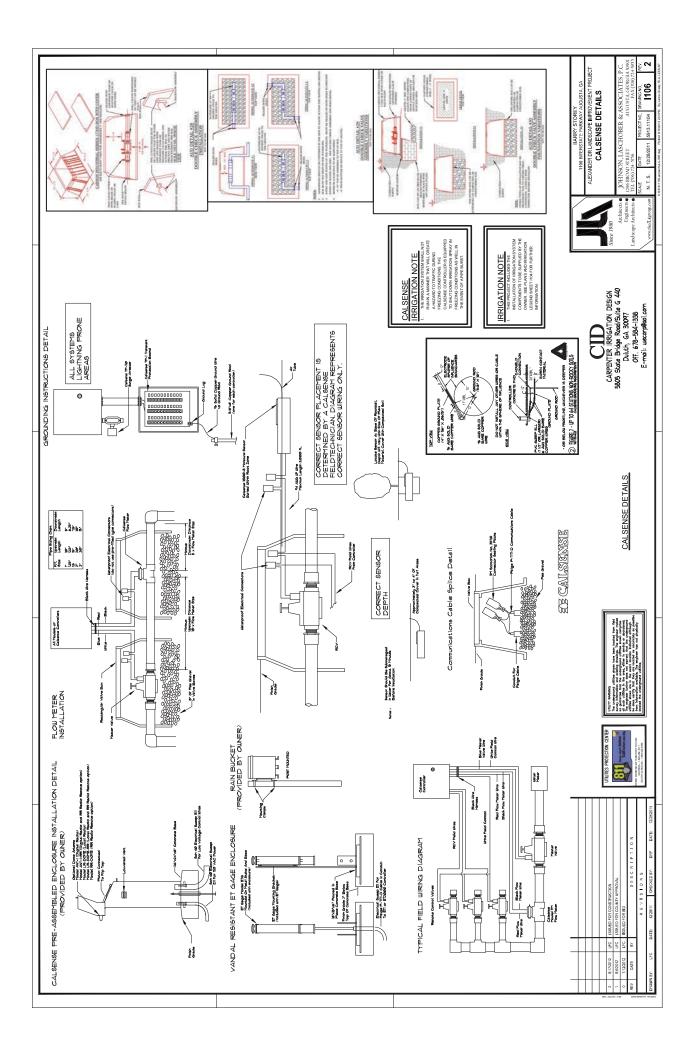












SAMPLE BEAUTIFICATION AGREEMENT FOR REFERENCE ONLY, MOST RECENT REVISION APPLIES

SAMPLE GDOT LANDSCAPE GUIDELINE

FOR REFERENCE ONLY, MOST RECENT REVISION APPLIES SEE GDOT WEBSITE OR CONTACT GDOT FOR MOST RECENT REVISION