



INVITATION FOR BID

Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants and Spading Services for Outdoor Aquary Area

September 23, 2010

Bid Due Date: Friday, October 8, 2010
and Time: 2:00 p.m. (EST)

IFB Number: 2010-007-240

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IF YOU NEED ANY REASONABLE ACCOMMODATION FOR ANY TYPE OF DISABILITY IN ORDER TO PARTICIPATE IN THIS PROCUREMENT, PLEASE CONTACT PURCHASING AS SOON AS POSSIBLE.

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1 PURPOSE

The objective of this Invitation for Bid (IFB) is to find an experienced, reliable vendor, herein referred to as "vendor", "firm", or "contractor" to provide the Loudoun County Sanitation Authority (Loudoun Water), herein referred to as "Loudoun Water", with the supply and planting of various trees, shrubs, and herbaceous plants, and spading services for Loudoun Water's Outdoor Aquary Area.

This Invitation for Bid (IFB), plus the resulting agreement, shall be consistent with, and governed by the Virginia Water and Waste Authorities Act (VWWA), the Virginia Public Procurement Act (VPPA) and the Loudoun County Sanitation Authority Purchasing Regulations.

2 COMPETITION INTENDED

It is Loudoun Water's intent that this IFB permit competition. It shall be the vendor's responsibility to advise the Purchasing Technician in writing if any language, requirement, specification, etc., or any combination thereof, inadvertently restricts or limits the requirements stated in this IFB to a single source. Such notification must be received by the Purchasing Technician not later than ten (10) days prior to the date set for acceptance of Bids.

3 BACKGROUND INFORMATION

- A. Loudoun Water is a public body politic and corporate and an instrumentality of the Commonwealth of Virginia, organized under the Virginia Water and Waste Authorities Act, being Chapter 28, Title 15.1, Code of Virginia of 1950, as amended (the "Act"). Loudoun Water was created by action of the Board of Supervisors of Loudoun County, Virginia and was chartered by the State Corporation Commission on May 27, 1959. As an authority, Loudoun Water makes no profit and our operations and finances are independent of the County's tax-supported services.
- B. Loudoun Water has approximately 60,000 connections serving more than 186,000 people. Its service area is predominantly in eastern Loudoun County, and is composed of more than 1,500 miles of water and sewer pipelines. Water supply is provided through agreements with the City of Fairfax and Fairfax Water. Water sources include The Potomac River and Goose Creek. Wastewater treatment is currently provided through an agreement with the District of Columbia Water and Sewer Authority and Loudoun Water's Broad Run Water Reclamation Facility (BRWRF). The BRWRF discharges high quality effluent into Broad Run, which feeds the Potomac River and ultimately, the Chesapeake Bay. Loudoun Water also operates several small community water and wastewater treatment plants.

4 SCOPE OF SERVICES

PART I – GENERAL

The scope of services and specifications are as follows:

4.1 Related Documents

- 4.1.1 Planting Schedule (Attachment A) and Drawings (Attachments B and C) apply to this Section.

4.2 Summary

- A. This Section includes the following:
 - 1. Trees.
 - 2. Shrubs.
 - 3. Plants.

4.3 Definitions

- A. Bailed and Burlapped Stock: Plants dug with firm, natural balls of earth in which they are grown, with bail size not less than diameter and depth recommended by ANSI Z60.1 for type and size of tree or shrub required; wrapped, tied, rigidly supported, and drum-laced as recommended by ANSI Z60.1.
- B. Bare Root Stock: Plants with a well-branched, fibrous-root system developed by transplanting or root pruning, with soil or growing medium removed, and with not less than minimum root spread according to ANSI Z60.1 for kind and size of exterior plant required.
- C. Container-Grown Stock: Healthy, vigorous, well-rooted plants grown in a container with well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for kind, type, and size of plant required.
- D. Fabric Bag-Grown Stock: Health, vigorous, well-rooted plants established and grown in-ground in a porous fabric bag with well-established root system reaching sides of fabric bag. Fabric bag size is not less than diameter, depth, and volume required by ANSI Z60.1 for type and size of plant.
- E. Finish Grade: Elevation of finished surface of planting soil.
- F. Manufactured Topsoil: Soil produced off-site by homogeneously blended mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.
- G. Planting Soil: Native or imported topsoil, manufactured topsoil, or surface soil modified to become topsoil; mixed with soil amendments.
- H. Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill, before placing planting soil.

4.4 SUBMITTALS

- A. Product Data: For each type of product indicated.

- B. Qualification Data: For landscape installer.
- C. Planting Schedule: Indicating anticipated planting dates for exterior plants.
- D. Maintenance Instructions: Recommended procedures to be established by Owner for Maintenance of plants during a calendar year. Submit before expiration of maintenance periods.

4.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified landscape installer of no less than five (5) years experience on local projects of similar size and scope whose work has resulted in successful establishment of exterior plants:
 - 1. Installer's Field Supervisor: Require Installer to maintain an experienced full-time supervisor on Project site when exterior planting is in progress.
- B. Tree and Shrub Measurements: Measure according to ANSI Z60.1 with branches and trunks or canes in their normal position. Do not prune to obtain required sizes. Take caliper measurements six inches (6") above ground for trees up to four-inch (4") caliper size, and twelve inches (12") above ground for larger sizes. Measure main body of tree or shrub for height and spread; do not measure branches or roots tip-to-tip.
- C. Source limitations: All material of a specific size and cultivar specified as matching shall be grown at the same nursery and in the same lot.
- D. Observation: Architect and Owner may observe trees and shrubs either at place of growth or at site before planting for compliance with requirements for genus, species, variety, size, and quality. Architect and Owner retains right to observe trees and shrubs further for size and condition of balls and root systems, insects, injuries, and latent defects and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from Project site.
- E. Notify Architect and Owner of sources of planting materials seven (7) days in advance of delivery to site.

4.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery plants freshly dug.
 - 1. Immediately after digging up bare-root stock, pack root system in wet straw, hay, or other suitable material to keep root system moist until planting.
- B. Do not prune trees and shrubs before delivery, except as approved by Architect or Owner. Protect bark, branches, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of plants during delivery. Do not drop plants during delivery.
- C. Handle planting stock by root ball with a tree strap only. Handling by any other means, including but not limited to jaws, chains, bars, or trunk lift is prohibited.
- D. Deliver plants after preparations for planting have been completed and install immediately. Place trees upright immediately upon unloading; do not lay trees down at any time. If planting is delayed more than six (6) hours after delivery,

set plants in shade, protect from weather and mechanical damage, and keep roots moist.

1. Heel-in bare-root stock. Soak roots in water for two (2) hours if dried out.
2. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material.
3. Do not remove container-grown stock from containers before time of planting.
4. Water root systems of plants stored on-site with a fine-mist spray. Water as often as necessary to maintain root systems in a moist condition.

4.7 COORDINATION

- A. Planting Restrictions: Plant during the following fall periods, except that plantings shall occur no later than indicated in 4.7.4. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.
 1. Deciduous Trees and Shrubs: September 15 – December 1. (Oak, Tupelo and Beech shall be planted only in the spring.)
 2. Evergreen Trees, Shrubs, Groundcover, and Perennials: September 1 – November 15.
- B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit.
- C. Coordination with Lawns: Plant trees and shrubs after finish grades are established and before planting lawns, unless otherwise acceptable to Architect or Owner.
 1. When planting trees and shrubs after lawns, protect lawn areas and promptly repair damage caused by planting operations.
- D. All transplants should be re-installed the same day they are spaded and/or dug.
- E. **All planting shall be completed before November 12, 2010, unless due to plant availability. If such conditions occur, Contractor shall notify Loudoun Water as soon as possible, and make every reasonable effort possible to work with Loudoun Water to plant where possible and prepare other areas so as to be presentable.**

4.8 WARRANTY

- A. Special Warranty: Warrant the following plants, for the warranty period indicated, against defects including death and unsatisfactory growth, except for defects resulting from lack of adequate maintenance, neglect, or abuse by Owner, or incidents that are beyond the Contractor's control.
 1. Warranty Period for Trees and Shrubs: One (1) year from date of Project Turnover.
 2. Warranty Period for Ground Cover and Plants: One (1) year from date of Project Turnover.
 3. Contractor shall be responsible for complete and proper planting supports, installation layout, watering, fertilizing, and pest and pathogen control during warranty period.

4. Remove dead plants immediately. Replace immediately unless required to plant in the succeeding planting season.
5. Replace plants that are more than twenty-five percent (25%) dead or in an unhealthy condition at end of warranty period.
6. A limit of one (1) replacement of each plant will be required for accepted plant material, except for losses or replacements due to failure to comply with requirements.

4.9 MAINTENANCE

- A. Trees and Shrubs: Maintain for the following maintenance period by pruning, cultivating, watering, weeding, fertilizing, restoring planting saucers, tightening and repairing stakes and guy supports, and resetting to proper grades or vertical position, as required to establish healthy, viable plantings. Spray as required to keep trees and shrubs free of insects and disease. Monitor for boring insects and signs of stress. Begin maintenance immediately after each area is planted and continue for not less than the following periods:
 1. Maintenance Period: One (1) year from date of Project Turnover.
- B. Ground Cover and Plants: Maintain for the following maintenance period by watering, weeding, fertilizing, and other operations as required to establish healthy, viable plantings:
 1. Maintenance Period: One (1) year from date of Project Turnover.

PART 2 – PRODUCTS

4.10 TREE AND SHRUB MATERIAL

- A. General: Furnish nursery-grown trees and shrubs complying with ANSI Z60.1, with healthy root systems developed by transplanting or root pruning and free of circling roots and cracked root balls. Provide well-shaped, fully branched, healthy vigorous stock of uniform size and free of disease, insects, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.
- B. Grade: Provides trees and shrubs of sizes and grades complying with ANSI Z60.1 for type of trees and shrubs required. Trees and shrubs of a larger size may be used if acceptable to Architect and Owner, with a proportionate increase in size of roots or balls.
- C. Label each tree and shrub with a securely attached, waterproof tag bearing legible designation of botanical and common name.

4.11 SHADE AND FLOWERING TREES

- A. Shade Trees: Single-stem trees with straight trunk, well-balanced crown, and intact leader, of height and caliper indicated, complying with ANSI Z60.1 for type of trees required.
 1. Provide balled and burlapped trees.
 2. Branching Height: One-half of tree height.
- B. Small Upright Trees: Branched or pruned naturally according to species and type, with relationship of caliper, height, and branching according to ANSI Z60.1; stem form as follows:

1. Stem Form: Single stem.
 2. Provide balled and burlapped trees.
- C. Multi-stem Trees: Branched or pruned naturally according to species and type, with relationship of caliper, height, and branching according to ANSI Z60.1; stem form as follows:
1. Stem Form: Clump.
 2. Provide balled and burlapped or fabric bag grown trees.

4.12 DECIDUOUS SHRUBS

- A. Form and Size: Deciduous shrubs with not less than the minimum number of canes required by and measured according to ANSI Z60.1 for type, shape, and height of shrub.
1. Provide balled and burlapped, container-grown, or fabric bag grown shrubs.

4.13 CONIFEROUS EVERGREENS

- A. Form and Size: Specimen-quality, exceptionally heavy, tightly-knit, symmetrically shaped coniferous evergreens and the following grade:
1. Heavy Grade: "XXX".
 2. Provide balled and burlapped or fabric bag grown trees.

4.14 BROADLEAF EVERGREENS

- A. Form and Size: Normal-quality, well-balanced, broadleaf evergreens, of type, height, spread, and shape required, complying with ANSI Z60.1.
1. Provide balled and burlapped or fabric bag grown trees.

4.15 GROUND COVER PLANTS

- A. Ground Cover: Provide ground cover of species indicated, established and well-rooted in pots or similar containers, and complying with ANSI Z60.1.

4.16 PLANTS

- A. Annuals: Provide healthy, disease-free plants of species and variety shown or listed. Provide only plants that are acclimated to outdoor conditions before delivery and that are in bud but not yet in bloom.
- B. Perennials: Provide healthy, field-grown plants from a commercial nursery, of species and variety indicated, and complying with requirements in ANSI Z60.1.
- C. Vines: Provide vines of species indicated complying with requirements in ANSI Z60.1 as follows:
1. Two (2) year plants with heavy, well-branched tops, with not less than three (3) runners eighteen inches (18") or more in length, and with a vigorous well-developed root system.

4.17 TOPSOIL

- A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of four percent (4%) organic material content; free of stones one inch (1") or larger in any dimension and other extraneous materials harmful to plant growth.

1. Topsoil Source: Reuse existing in-place surface and/or surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
 - a. Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least four inches (4") deep; do not obtain from bogs or marshes.

4.18 INORGANIC SOIL AMENDMENTS

- A. Lime: ASTM C 602, agricultural limestone containing a minimum eighty percent (80%) calcium carbonate equivalent and as follows:
 1. Class: Class O, with a minimum ninety-five percent (95%) passing through No. 8 sieve and a minimum fifty-five percent (55%) passing through No. 60 sieve.
 2. Provide lime in form of dolomitic limestone.
- B. Sulfur: Granular, biodegradable, containing a minimum of ninety percent (90%) sulfur, with a minimum ninety-nine percent (99%) passing through No. 6 sieve and a maximum ten percent (10%) passing through No. 40 sieve.
- C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of twenty percent (20%) iron and ten percent (10%) sulfur.
- D. Aluminum Sulfate: Commercial grade, unadulterated.
- E. Perlite: Horticultural perlite, soil amendment grade.
- F. Expanded Shale: Per ASTM D 5883 Used of Rotary Kiln Produced Expanded Shale.
- G. Agricultural Gypsum: Finely ground, containing a minimum of ninety percent (90%) calcium sulfate.
- H. Sand: Clean, washed, natural or manufactured, free of toxic materials.
- I. Calcined Clay: Lightweight, absorbent material capable of holding up to ninety to one-hundred thirty percent (90 – 130%) of its weight in water while resisting compaction. Must meet ASTM-C88 Sulfate Soundness Test. Not to exceed five percent (5%) degradation on Static Degradation Test.

4.19 ORGANIC SOIL AMENDMENTS

- A. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content thirty-five to fifty-five percent (35 – 55%) by weight; one hundred percent (100%) passing through ½-inch sieve; soluble salt content of five to ten (5 – 10) decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
 1. Organic Matter Content: fifty to sixty percent (50 to 60%) of dry weight.
 2. Feedstock: Agricultural, food, or industrial residuals; biosolids; yard trimmings; or source-separated or compostable mixed solid waste.
- B. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
- C. Manure: Well-rotted, unleached, stable or cattle manure containing not more than twenty-five percent (25%) by volume of straw, sawdust, or other bedding

- materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.
- D. Mycorrhizal Fungal Transplant Inoculant: Apply in accordance with manufacturer's recommended application rates.

4.20 FERTILIZER

- A. Bonemeal: Commercial, raw or steamed, finely ground; a minimum of four percent (4%) nitrogen and ten percent (10%) phosphoric acid.
- B. Superphosphate: Commercial, phosphate mixture, soluble; a minimum of twenty percent (20%) available phosphoric acid.
- C. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, fifty percent (50%) derived from natural organic sources of urea formaldehyde, phosphorus, and potassium in the following composition:
1. Composition: Nitrogen, phosphorus, and potassium in amounts recommended in soil reports from a qualified soil-testing agency.
- D. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of fifty percent (50%) water-insoluble nitrogen, phosphorus, and potassium in the following composition:
1. Composition: Nitrogen, phosphorus, and potassium in amounts recommended in soil reports from a qualified soil-testing agency.

4.21 MULCHES

- A. Organic Mulch: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of shredded hardwood.

4.22 WEED-CONTROL BARRIERS

- A. Non-woven Fabric: Polypropylene or polyester fabric, 3 oz./sq. yd. minimum.
- B. Composite Fabric: Woven, needle-punched polypropylene substrate bonded to a nonwoven polypropylene fabric, 4.8 oz./sq. yd.

4.23 STAKES AND GUYS

- A. Upright and Guy Stakes: Rough-sawn, sound, new hardwood, redwood, or pressure-preservative treated softwood, free of knots, holes, cross grain, and other defects, two (2) by two (2) inches by length indicated, pointed at one end.
- B. Duckbill Anchors: Aluminum alloy drive anchor. Size and depth of embedment per Manufacturer's written specifications for anchored tree caliper.
- C. Guy and Tie Wire: ProLock Chain-Lock Tree Tie, one-half inch (½") size.
- D. Hose Chafing Guard: Reinforced rubber or plastic hose at least ½-inch in diameter, black, cut to lengths required to protect tree trunks from damage.
- E. Flags: Standard surveyor's plastic flagging tape, white, six inches (6") long.

4.24 MISCELLANEOUS PRODUCTS

- A. Antidessicant: Water-insoluble emulsion, permeable moisture retarder, film forming, for trees and shrubs. Deliver in original, sealed, and fully labeled containers and mix according to manufacturer's written instructions.

4.25 PLANTING SOIL MIX

- A. Planting Soil Mix: Mix topsoil with the following soil amendments and fertilizers in the following quantities:
 - 1. Trees Pits in Paved Areas:
 - a. 1/10 composted sewage sludge.
 - b. 1/10 pine bark fines.
 - c. 1/5 coarse sand.
 - d. 3/5 topsoil.
 - e. Amendments required in topsoil analysis report.
- B. Planting Beds on Grade
 - a. 1/3 topsoil.
 - b. 1/3 excavated soil
 - c. 1/6 compost.
 - d. 1/6 coarse sand.
 - e. Amendments required in topsoil analysis report.
- C. Container Planters on Grade:
 - a. 1/3 topsoil.
 - b. 1/3 coarse sand.
 - c. 1/3 compost.
 - d. Amendments required in topsoil analysis report.
- D. Planting in Bio-Retention Basin (unless specified otherwise in approved storm water management plan):
 - a. 0-5% clay.
 - b. 50-60% sand.
 - c. 20-30% leaf compost.
 - d. 20-30% topsoil.

4.26 PLANTING SCHEDULE

- A. See Attachment A.

4.27 EXAMINATION

- A. Examine areas to receive exterior plants for compliance with requirements and conditions affecting installation and performance. Proceed with installation only after unsatisfactory conditions have been corrected.

4.28 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities, and lawns and existing exterior plants from damage caused by planting operations.

- B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
- C. Apply antidessicant to trees and shrubs using power spray to provide an adequate film over trunks, branches, stems, twigs, and foliage to protect during digging, handling, and transportation.
 - 1. If deciduous trees or shrubs are moved in full leaf, spray with antidessicant at nursery before moving and again two (2) weeks after planting.

4.29 PLANTING BED ESTABLISHMENT

- A. Loosen subgrade of planting beds to a minimum depth of eight inches (8"). Remove stones larger than one inch (1") in any dimension and sticks, roots, rubbish and other extraneous matter and legally dispose of them off Owner's property.
 - 1. Apply fertilizer directly to subgrade before loosening.
 - 2. Apply Transplant Inoculant.
 - 3. Thoroughly blend planting soil mix off-site before spreading or spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil mix.
 - a. Delay mixing fertilizer with planting soil if planting will not proceed within a few days.
 - b. Mix lime with dry soil before mixing fertilizer.
 - 4. Spread planting soil mix to a depth of four inches (4") but not less than required to meet finish grades after natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.
 - a. Spread approximately one-half the thickness of planting soil mix over loosened subgrade. Mix thoroughly into top four inches (4") of subgrade. Spread remainder of planting soil mix.
- B. Finish Grading: Grade planting beds to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.
- C. Restore planting beds if eroded or otherwise disturbed after finish grading and before planting.

4.30 TREE AND SHRUB EXCAVATION

- A. Prepare continuous tree and shrub planting bed(s) that encompass multiple tree and shrub planting locations. Except for tree pits, set limits of Planting Bed no closer than five feet (5') from any tree planting location and no closer than thirty inches (30") from any shrub planting location. For tree pits, site Limits at the edge of adjacent paving or structure. Turn and amend existing soil within the Limits to a minimum depth of twelve inches (12") throughout.
 - 1. Planting in and/or near a Tree Protection Zone:
 - a. Reduce Limits of Planting Bed to three (3) times the radius of each rootball.

- B. Excavation:
 - 1. Excavate circular pits with sides sloped inward. Trim base leaving center area raised slightly to support root ball and assist in drainage. Do not further disturb base. Scarify sides of plant pit smeared or smoothed during excavation.
 - a. Excavate approximately one and one-half times as wide as ball diameter for balled and burlapped, container-grown, and fabric bag-grown stock.
 - b. Excavate at least six inches (6") wider than root spread and deep enough to accommodate vertical roots for bare-root stock.
 - 2. If subdrainage pipe is shown or required under planted areas, excavate to top of porous backfill. Do not damage fabric barrier(s).
 - 3. Subsoil removed from excavations may be used as backfill.
- C. Drainage: Notify Architect and Owner if subsoil conditions evidence unexpected water seepage or retention in tree or shrub pits.

4.31 TREE AND SHRUB PLANTING

- A. Set balled and burlapped stock plumb and in center of excavation with top of root ball one inch (1") above adjacent finish grades.
 - 1. To locate top of root collar, remove loose soil deposited on top of root ball during digging process.
 - 2. Cut away and remove burlap and wire baskets from top third of root balls, but do not remove from under root balls. Remove pallets, if any, before setting.
 - 3. Do not use planting stock if root ball is cracked or broken before or during planting operation.
 - 4. Place planting soil mix around root ball in layers, tamping to settle mix and eliminate voids and air pockets. When pit is approximately one-half backfilled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed. Water again after placing and tamping final layer of planting soil mix.
- B. Set container-grown stock plumb and in center of pit or trench with top of root ball one inch (1") above adjacent finish grades.
 - 1. Carefully remove root ball from container without damaging root ball or plant.
 - 2. Make four (4) vertical cuts, one inch (1") deep, evenly spaced about the root ball with a clean, sharp utility knife.
 - 3. Place planting soil mix around root ball in layers, tamping to settle mix and eliminate voids and air pockets. When pit is approximately one-half backfilled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed. Water again after placing and tamping final layer of planting soil mix.
- C. Set fabric bag-grown stock plumb and in center of pit or trench with top of root ball one inch (1") above adjacent finish grades.

1. Carefully remove root ball from fabric bag without damaging root ball or plant. Do not use planting stock if root ball is cracked or broken before or during planting operation.
 2. Place planting soil mix around root ball in layers, tamping to settle mix and eliminate voids and air pockets. When pit is approximately one-half backfilled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed. Water again after placing and tamping final layer of planting soil mix.
- D. Set and support bare-root stock in center of pit or trench with root collar or trunk flare flush with adjacent finish grade. Spread roots without tangling or turning toward surface, and carefully work backfill around roots by hand. Puddle with water until backfill layers are completely saturated. Plumb before backfilling, and maintain plumb while working backfill around roots and placing layers above roots. Tamp final layer of backfill. Remove injured roots by cutting cleanly; do not break.
- E. Organic Mulching: Apply three inch (3") average thickness of organic mulch extending twelve inches (12") beyond edge of planting pit or trench. Do not place mulch within three inches (3") of trunks or stems.

4.32 TREE AND SHRUB PRUNING

- A. Prune, thin, and shape trees and shrubs according to standard horticultural practice. Prune trees to retain required height and spread. Remove no more than ten percent (10%) of top growth unless otherwise indicated by Architect and Owner. Do not cut tree leaders; remove only injured or dead branches from flowering trees. Prune shrubs to retain natural character. Shrub sizes indicated are sizes after pruning.

4.33 GUYING AND STAKING

- A. Upright Staking and Tying: Stake trees of two through five inch (2" to 5") caliper. Stake trees of less than two inch (2") caliper only as required to prevent wind tip-out. Use a minimum of two (2) stakes of length required to penetrate at least 18 inches below bottom of backfilled excavation and to extend at least 72 inches above grade. Set vertical stakes and space to avoid penetrating root balls or root masses. Support trees with at least two (2) strands of chain lock encased in hose sections at contact points with tree trunk. Allow enough slack to avoid rigid restraint of tree. Use the number of stakes as follows:
1. Use two (2) stakes for trees up to 12 feet high and 2 ½ inches or less in caliper; three (3) stakes for trees less than 14 feet high and up to four inches (4") in caliper. Space stakes equally around trees.
- B. Guying and Staking: Guy and stake trees exceeding 14 feet in height and more than three inches (3") in caliper, unless otherwise indicated. Securely attach no fewer than three (3) guys to stakes thirty inches (30") long, driven to grade.
1. For trees more than six inches (6") in caliper, anchor guys to pressure preservative-treated deadmen eight inches (8") in diameter and forty-eight

inches (48") long buried at least thirty-six inches (36") below grade.

Provide turnbuckles for each guy wire and tighten securely.

- a. Contractor Option: Duckbill Anchor systems may be used in place of guy and stake.

2. Attach flags to each guy wire, thirty inches (30") above finish grade.

4.34 GROUND COVER AND PLANT PLANTING

- A. Set out and space ground cover and plants as indicated.
- B. Dig holes large enough to allow spreading of roots. Backfill with planting soil.
- C. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.
- D. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.
- E. Protect plants from hot sun and wind. Remove protection if plants show evidence of recovery from transplanting stock.

4.35 SPADING AND TRANSPLANTS

- A. Spading will include twenty-six (26) Acer Rubrum two and one-half inches (2 ½") to three inches (3") transplanted to spots that will be marked on site. Transplanting of twenty-eight (28) Viburnum Dentatum thirty-six inches (36") on site to pre-marked locations.
- B. Before digging/spading the trees and shrubs to be relocated, prepare holes for the transplanted material and coordinate with Architect and Owner.
- C. New holes are to be adequately sized for transplanted material. Soil is to be loosened all around to promote and allow for new root growth.
- D. All transplants should be re-installed the same day they are spaded or dug.
- E. Water thoroughly and use ROOTS or similar starter fertilizer.
- F. Stake and guy, if necessary.

4.36 PLANTING BED MULCHING

- A. Install weed-control barriers before mulching according to Manufacturer's written instructions. Completely cover area to be mulched, overlapping edges a minimum of six inches (6").
 1. Material and Seam Treatment: Composite fabric with seams pinned.
- B. Mulch backfilled surfaces of planting beds and other areas indicated.
 1. Organic mulch: Apply three inch (3") average thickness of organic mulch and finish level with adjacent finish grades. Do not place mulch against plant stems.

4.37 CLEAN-UP AND PROTECTION

- A. During exterior planting, keep adjacent pavings and construction clean and work area in an orderly condition.
- B. Protect exterior plants from damage due to landscape operations, operations by other contractors and trades, and others. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged exterior planting.

4.38 DISPOSAL

- A. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.

5 SPECIFIC PROJECT REQUIREMENTS

Loudoun Water reserves the right to reduce the quantity of plantings shown on the Planting Schedule (Attachment A) if, by doing so, it is determined to be in the best interest of Loudoun Water. The unit price for any plants deleted shall be used to determine the value of the reduction.

Loudoun Water reserves the right to award either Part A – Supply of Trees, Shrubs, and Herbaceous Plants or Part B – Spading Services, as separate, stand-alone contracts if determined by Loudoun Water to be in the best interest of Loudoun Water.

6 CONTRACT CONDITIONS

Procedures

The extent and character of the services to be performed by the firm shall be subject to the general control and approval of Loudoun Water's General Manager or his authorized representative. Any change to the contract must be approved, in writing, by the Purchasing Technician and the Contractor. The successful Contractor is prohibited from assigning, transferring, conveying, subletting, or otherwise disposing of this agreement or its rights, title or interest therein or its power to execute such agreement to any other person, company or corporation without the prior consent and approval in writing by Loudoun Water.

Insurance

The successful firm shall provide and maintain the following minimum limits of insurance coverage during the period of performance required under a contract resulting from this IFB.

- A. Comprehensive General Liability
 1. \$1,000,000 Bodily Injury and Property Damage per occurrence and aggregate
 2. Comprehensive General Form
 3. Extended Business Liability Endorsement
 4. Independent Contractors Coverage
 5. Products/Completed Operations (to be provided for minimum of 36 months after completion of work)
 6. Broad Form Contractual Liability
 7. Personal Injury Liability
- B. Comprehensive Automobile Liability
 1. \$1,000,000 Combined Single Limits
 2. Statutory Uninsured Motorist Coverage
 3. Hired and Non-Owned Coverage

4. Motor Carrier Act Endorsement
- C. Worker's Compensation and Employer's Liability
 1. Statutory Coverage for Virginia
 2. \$1,000,000 Employer's Liability
 3. Broad Form All States Endorsement
 4. Compliance with all Federal Statutes, including U.S. Longshoreman and Harbor Worker's Act, the Jones Act, and Federal Employees Act
- D. Umbrella Liability
 1. Additional \$1,000,000 liability coverage over the primary limits for Comprehensive General Liability, Comprehensive Automobile Liability, and the Employer's Liability

Prior to commencing work under a resultant contract, the successful firm shall furnish Loudoun Water with a Certificate of Insurance naming Loudoun Water as an additional insured. A sixty (60) day notice of cancellation, non-renewal, or change in the insurance coverage must be provided.

Hold Harmless Clause

The Contractor shall, during the term of the contract including any warranty period, indemnify, defend, and hold harmless Loudoun Water, its officials, employees, agents, and representatives thereof from all suits, actions, or claims of any kind, including attorney's fees, brought on account of any personal injuries, damages, or violations of rights, sustained by any person or property in consequence of any neglect in safeguarding contract work or on account of any act or omission by the contractor or his employees, or from any claims or amounts arising from violation of any law, bylaw, ordinance, regulation or decree. The vendor agrees that this clause shall include claims involving infringement of patent or copyright.

Employees Not To Benefit

As a prerequisite for payment pursuant to the terms of this contract, there shall be furnished to Loudoun Water a statement, that no employee of Loudoun Water, or members of his immediate family, including spouse, parents or children has received or has been promised, directly or indirectly, any financial benefit, by way of fee, commission, finder's fee or in any other manner, remuneration arising from or directly or indirectly related to this contract.

Employment Discrimination by Contractors Prohibited

Every contract over \$10,000 shall include the following provisions.

- A. During the performance of this contract, the Contractor agrees as follows.
 1. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age or disability, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor

- agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, shall state that such contractor is an equal opportunity employer.
 3. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient to meet this requirement.
- B. The Contractor will include the provisions of the foregoing paragraphs, 1, 2, and 3 in every subcontract or purchase order over \$10,000 so that the provisions will be binding upon each subcontractor or vendor.

Drug-free Workplace

Every contract of over \$10,000 shall include the following provisions.

During the performance of this contract, the Contractor agrees to (i) provide a drug-free workplace for the contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order over \$10,000 so that the provisions will be binding upon each subcontractor or vendor.

For the purpose of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this chapter, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana during the performance of the contract.

Exemption from Taxes

Loudoun Water is exempt from State and Federal Taxes. Tax Exemption Certificate indicating Loudoun Water's tax exempt status will be furnished by Loudoun Water on request.

Substitutions

NO substitutions, including key personnel, or cancellations permitted after award without written approval by the Purchasing Division and Loudoun Water's General Manager.

Assignment of Contract

This contract may not be assigned in whole or in part without the written consent of the Purchasing Technician.

Termination

Subject to the provisions below, the contract may be terminated by Loudoun Water upon sixty (60) days advance written notice to the other party; but if any work or service hereunder is in progress, but not completed as of the date of termination, then this contract may be extended upon written approval of Loudoun Water until said work or services are completed and accepted.

Termination for Convenience

In the event that this contract is terminated or canceled upon request and for the convenience of Loudoun Water, without the required sixty (60) days advance written notice, then Loudoun Water shall negotiate reasonable termination costs, if applicable.

Termination for Cause

Termination by Loudoun Water for cause, default or negligence on the part of the firm shall be excluded from the foregoing provision; termination costs, if any, shall not apply. The sixty (60) days advance notice requirement is waived in the event of Termination for Cause.

7 Instructions for Preparing and Submitting Bids**Questions and Inquiries**

Questions about this IFB should be directed to Bessie Nelson, Loudoun Water Purchasing Technician, at 571.291.7700.

Contents of Bids

The following information is to be submitted as part of the Bid. No other material may be attached. The Bid is to be organized into the following categories:

- A. **Descriptive Information** – Provide all information requested in Scope of Services.
- B. **Unit Price** – Provide price quote(s) based on the Scope of Services and the Special Project Requirements as outlined in this IFB.
- C. **IFB Attachments** – All attachments to this IFB requiring execution by the firm are to be returned with the Bid.
- D. **Signatures** – All Bids must be signed in ink by the individual or authorized principals of the firm.

Packaging of Bids

- A. Bids are to be returned in a sealed container. Ensure that the container is completely and properly identified. The face of the container shall indicate the IFB number, 2010 – 007 – 240; time and date of public acceptance – Friday, October 8, 2010, 2:00 p.m. local time; and the title of the IFB – Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants and Spading Services for Outdoor Aquary Area.
- B. **Each firm shall submit one (1) original and three (3) copies of their Bid to Loudoun Water as indicated on the cover sheet of this IFB. The original Bid shall be clearly marked.**

Delivery of Bids

- A. Bids may either be mailed to P.O. Box 4000, Ashburn, Virginia, 20146 or hand delivered or shipped to 44865 Loudoun Water Way, Ashburn, Virginia, 20147. They may NOT be emailed.
- B. Bids must be received by Loudoun Water BEFORE due date and time indicated on the cover of this IFB – Friday, October 8, 2010, 2:00 p.m. (EST). Requests for extensions of this time and date will not be granted. Firms mailing their Bids shall allow for normal mail time to ensure receipt of their Bids by Purchasing prior to the time and date fixed for acceptance of the Bids. Bids or unsolicited amendments to Bids received by Loudoun Water after the acceptance date will not be considered. Bids will be publicly accepted and will be date and time stamped.
- C. Bids will be opened and publicly read aloud at the Loudoun Water Administrative Facility, 44865 Loudoun Water Way, Ashburn, VA 20147, on Friday, October 8, 2010 at 2:00 pm (EST).

Withdrawal of Bids

- A. Bids may be withdrawn on written request from the vendor at the address shown in the solicitation PRIOR to the time of acceptance.
- B. Negligence on the part of the vendor in preparing the Bid confers no right of withdrawal after the time fixed for the acceptance of the Bids.

Late Bids

LATE Bids will be returned to vendor UNOPENED, if vendor's return address is shown on the container.

Addendum and Supplement to Request

If it becomes necessary to revise any part of this request or if additional information is necessary to enable an exact interpretation of provisions of this request, an addendum will be issued to the same distribution list as the original IFB. It is the responsibility of the Contractor to ensure that he has received all addendums prior to submitting a Bid.

Proprietary Information

It is the responsibility of each vendor to clearly mark any part of his Bid considered to be of PROPRIETARY OR CONFIDENTIAL NATURE. Vendors shall not mark sections of their Bid as PROPRIETARY OR CONFIDENTIAL if they are to be part of the award of the contract and are of a "Material" nature.

Authority to Bind Firm in Contract

Bids MUST give full firm name and address of vendor. Failure to manually sign Bid may disqualify it. Person signing the Bid should show TITLE or AUTHORITY TO BIND HIS FIRM IN A CONTRACT.

Rights of Loudoun Water

Loudoun Water reserves the right to accept or reject all or any part of any Bid, waive informalities and award the contract to best serve the interest of Loudoun Water.

Prohibition as Subcontractors

No vendor who is permitted to withdraw a Bid shall, for compensation, supply any material or labor to or perform any subcontract or other work agreement for the person or firm to whom the contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn Bid was submitted.

Deviations from Scope of Services

If there is any deviation from that prescribed in the scope of services, the appropriate line in the scope of services shall be ruled out and the substitution clearly indicated. Loudoun Water reserves the right to determine the responsiveness of any deviation.

Miscellaneous Requirements

- A. All Bids submitted shall be valid for a minimum period of one hundred and twenty (120) calendar days following the date established for acceptance.
- B. Loudoun Water will not be responsible for any expenses incurred by a firm in preparing and submitting a Bid. All Bids shall provide a straight-forward, concise delineation of the firm's capabilities to satisfy the requirements of this request. Emphasis should be on completeness and clarity of content.
- C. The contents of the Bid submitted by the successful vendor and this IFB will become part of any contract awarded as a result of the Scope of Work contained herein. The successful firm will be expected to sign a contract with Loudoun Water.
- D. Loudoun Water reserves the right to reject any and all Bids by reason of this request, or to negotiate separately in any manner necessary to serve the best interests of Loudoun Water. Contractors' whose bids that are not accepted will be notified in writing.

Protest

Vendors may refer to Sections 2.2-4357 through 2.2-4364 of the Code of Virginia to determine their remedies concerning this competitive process.

8 Evaluation of Bids

- A. If Loudoun Water determines, at its sole discretion, to award this contract, Loudoun Water will make award to the responsible firm who submits a responsive bid at the lowest Grand Total cost for the Supply and Planting of Trees, Shrubs, and Herbaceous Plants and Spading Services for Outdoor Aquary Area.
- B. Responsiveness of bid and responsibility of firm shall be evaluated by Loudoun Water using the following criteria:
 - 1. Experience of firm and subcontractors on other projects of similar size and scope (minimum of five (5) years required).
 - 2. Response from References provided.
 - 3. Pricing shown on the Bid Form.
- C. It is Loudoun Water's intent to award this contract and issue a purchase order within one (1) week of the bid opening to allow plants to be installed by the date(s) identified in Section 4.7.E.

9 BID FORM – PART A

**Invitation for Bid 2010-007-240–
Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants and
Spading Services for Outdoor Aquary Area
Thursday, October 7, 2010 at 2:00 p.m. (EDT)**

Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants

KEY	QUANTITY	BOTANIC NAME	COMMON NAME	SIZE	PRICE EACH	TOTAL PRICE
TREES						
JV2	11	Juniperus virginiana "High Shoals"	Eastern Red Cedar	6 – 8 ft. height		
QN2	26	Quercus nutalli "QNSTD"	Nutail Oak	3.5" caliper		
SUBTOTAL FOR TREES						
SHRUBS						
IG	145	Ilex glabra "nigra"	Inkberry "Nigra"	30"		
IG2	20	Ilex glabra "species"	Inkberry	36"		
IV	196	Itea virginica "Sprich"	Little Henry Sweetspire	24"		
SUBTOTAL FOR SHRUBS						
GRASSES AND PERENNIALS						
G4A	65	Panicum virgatum "Shenandoah"	Switch Grass	1 quart		
SUBTOTAL FOR GRASSES AND PERENNIALS						
GRAND TOTAL FOR PART A-TREES, SHRUBS, GRASSES AND PERENNIALS						

BY: _____
Company Name

Printed Name and Signature of Person Authorized to Sign

TitleDate

**Invitation for Bid 2010-007-240 –
Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants and
Spading Services for Outdoor Aquary Area
Thursday, October 7, 2010 at 2:00 p.m. (EDT)**

BID FORM – PART B

SPADING AND TRANSPLANT SERVICES

QTY	BOTANIC/ COMMON NAME	SIZE	SPADING PRICE EACH	TRANSPLANT PRICE EACH	TOTAL PRICE (SPADING & TRANSPLANT)
26	Acer Rubrum/ Red Maple	2.5" - 3" caliper			
28	Viburnum Dentatum/Southern Arrowwood	36"			
GRAND TOTAL FOR PART B-SPADING AND TRANSPLANT SERVICES					
If submitting a bid for both Part A - Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants AND Part B – Spading and Transplant Services, please enter GRAND TOTAL for Part A AND Part B in space below .					
GRAND TOTAL FOR Part A - Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants <u>AND</u> Part B – Spading and Transplant Services					

BY: _____

 Company Name

 Printed Name and Signature of Person Authorized to Sign

 Title

 Date

**References
(Must be completed by Vendor)**

Bidders shall provide references on this form. References must be of organizations similar to Loudoun Water with major and minor facilities.

1. Firm Name _____

Contact _____

Title _____

Mailing Address _____

Email Address _____

Phone _____

2. Firm Name _____

Contact _____

Title _____

Mailing Address _____

Email Address _____

Phone _____

3. Firm Name _____

Contact _____

Title _____

Mailing Address _____

Email Address _____

Phone _____

**Invitation for Bid 2010-007-240–
Supply and Planting of Various Trees, Shrubs, and Herbaceous Plants and
Spading Services for Outdoor Aquary Area**

SECTION I – COMPANY IDENTIFICATION AND OWNERSHIP DISCLOSURE

Company _____

Address _____

Contact Person _____ Title _____

Telephone No. _____ Fax No. _____ Email _____

Organized under the laws of State of _____

Principal place of business at _____

Following list includes persons having ownership of 3% or more in the company (attach more sheets if necessary):

<u>Name</u>	<u>Address</u>
_____	_____
_____	_____
_____	_____

The Loudoun County Sanitation Authority requests, as a matter of policy, that any consultant or firm receiving a contract of award resulting from an RFP issued by Loudoun Water shall make certification as specified below. Receipt of such certification, shall be a prerequisite to the award of contract and payment thereof.

SECTION II - EMPLOYEES NOT TO BENEFIT

I (we) hereby certify that if the contract is awarded to our firm, partnership, or corporation, that no employee of the Loudoun County Sanitation Authority, or members of his/her immediate family, including spouse, parents or children has received or been promised, directly or indirectly, any financial benefit, by way of fee, commission, finder's fee, political contribution or any similar form of remuneration on account of the act of awarding and/or executing this contract.

SECTION III – CONFLICTS OF INTEREST

This solicitation is subject to the provisions of Va Code Ann. Section 2.1-639.2 et. seq., the State and Local Government Conflict of Interests Act. The Vendor [] is [] is not aware of any information bearing on the existence of any potential organizational conflict of interest.

SECTION IV – COLLUSION

I certify that this offer is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting an offer for the same services, materials, supplies, or equipment and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of the State and federal law and can result in fines, prison sentences, and civil damage awards.

I hereby certify that the responses to the above representations, certifications, and other statements are accurate and complete. I agree to abide by all conditions of this RFP and certify that I am authorized to sign for my company.

Signature _____ Date _____

Name (Printed) _____ Title _____

**OFFEROR MUST RETURN THIS FORM WITH PROPOSAL
RIDER CLAUSE**

**Use of Contract by Members of the:
Northern Virginia Cooperative Purchasing Council and
Metropolitan Washington Council of Governments**

USE OF CONTRACT(S) BY MEMBERS COMPRISING THE METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS PURCHASING OFFICERS' COMMITTEE.

- A. If authorized by the bidder(s), resultant contract(s) will be extended to any or all of the listed members as designated by the bidder to purchase at contract prices in accordance with contract terms.
- B. Any member utilizing such contract(s) will place its own order(s) directly with the successful contractor. There shall be no obligation on the part of any participating member to utilize the contract(s).
- C. A negative reply will not adversely affect consideration of your bid/proposal.
- D. It is the awarded vendor's responsibility to notify the members shown below of the availability of the Contract(s).
- E. Each participating jurisdiction has the option of executing a separate contract with the awardee. Contracts entered into with a participating jurisdiction may contain general terms and conditions unique to that jurisdiction including, by way of illustration and not limitation, clauses covering minority participation, non-discrimination, indemnification, naming the jurisdiction as an additional insured under any required Comprehensive General Liability policies, and venue. If, when preparing such a contract, the general terms and conditions of a jurisdiction are unacceptable to the awardee, the awardee may withdraw its extension of the award to that jurisdiction.
- F. The issuing jurisdiction shall not be held liable for any costs or damages incurred by another jurisdiction as a result of any award extended to that jurisdiction by the awardee.

BIDDER'S AUTHORIZATION TO EXTEND CONTRACT:

YES NO JURISDICTION

- Alexandria, Virginia
- Alexandria Public Schools
- Alexandria Sanitation Authority
- Arlington County, Virginia
- Arlington County Public Schools
- Bladensburg, Maryland
- Bowie, Maryland
- Charles County Public Schools
- College Park, Maryland
- Culpeper County, Virginia
- District of Columbia
- District of Columbia Courts
- District of Columbia Public Schools
- District of Columbia Water & Sewer Auth.
- Fairfax, Virginia
- Fairfax County, Virginia
- Fairfax County Water Authority
- Falls Church, Virginia
- Fauquier County Schools & Government, Virginia
- Frederick, Maryland
- Frederick County, Maryland
- Gaithersburg, Maryland
- Greenbelt, Maryland
- Herndon, Virginia
- Leesburg, Virginia
- Loudoun County, Virginia
- Loudoun County Public Schools
- Loudoun Water
- Manassas, Virginia

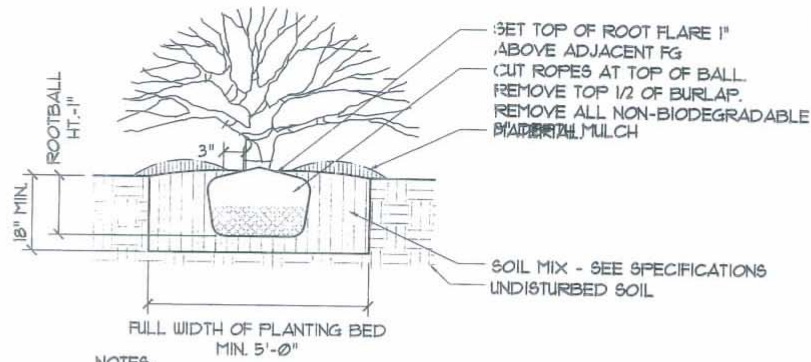
YES NO JURISDICTION

- City of Manassas Public Schools
- Manassas Park, Virginia
- Maryland-National Capital Park & Planning Comm.
- Maryland Transit Authority
- Metropolitan Washington Airports Authority
- Metropolitan Washington Council of Governments
- Montgomery College
- Montgomery County, Maryland
- Montgomery County Public Schools
- Northern Virginia Community College
- OmniRide
- Potomac & Rappahannock Trans. Commission
- Prince George's County, Maryland
- Prince George's Public Schools
- Prince William County, Virginia
- Prince William County Public Schools
- Prince William County Service Authority
- Rockville, Maryland
- Spotsylvania County Schools
- Stafford County, Virginia
- Takoma Park, Maryland
- Upper Occoquan Sewage Authority
- Vienna, Virginia
- Virginia Railway Express
- Washington Metropolitan Area Transit Authority
- Washington Suburban Sanitary Commission
- Winchester, Virginia
- Winchester Public Schools

ATTACHMENT A – PLANTING SCHEDULE

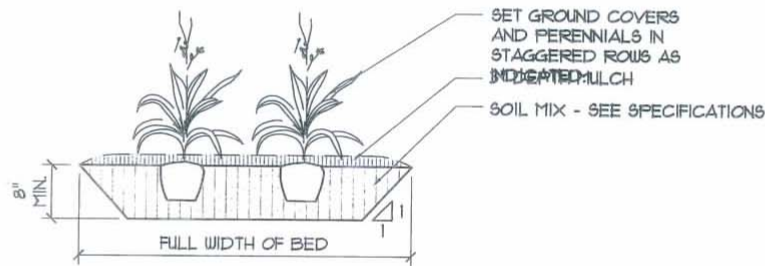
QUANTITY	BOTANIC NAME	COMMON NAME	SIZE	SPACING	REMARKS
TREES					
11	Juniperus virginiana "High Shoals"	Eastern Red Cedar	6 – 8 ft. height	As shown	Dense with Straight Central Leader
26	Quercus nutalli "QNSTD"	Nutail Oak	3.5" caliper	As shown	Matching with Straight Central Leader
SHRUBS					
145	Ilex glabra "nigra"	Inkberry "Nigra"	30"	36" o.c.	Full to ground and dense
20	Ilex glabra "species"	Inkberry	36"	36" o.c.	Full to ground and dense
196	Itea virginica "Sprich"	Little Henry Sweetspire	24"	30" o.c.	Full and dense
GRASSES AND PERENNIALS					
65	Panicum virgatum "Shenandoah"	Switch Grass	1 quart	N/A	N/A

Attachment B

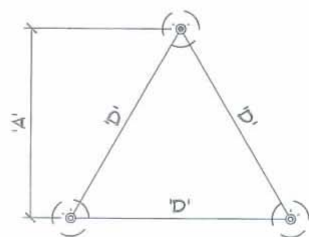


NOTES:
 1. FOR CONTAINER-GROWN SHRUBS, MAKE (3) 1" DEEP VERTICAL CUTS, EQUALLY SPACED ABOUT ROOTBALL.

SHRUB PLANTING
 NTS



GROUNDCOVER PLANTING
 NTS



PLANT (TYP)

PLANT SPACING 'D'	ROW 'A'
8" O.C.	6.93" O.C.
10" O.C.	8.66" O.C.
12" O.C.	10.4" O.C.
18" O.C.	15.6" O.C.
24" O.C.	20.8" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.

GROUNDCOVER SPACING
 NTS

LSG PROJECT NO. 24099.01



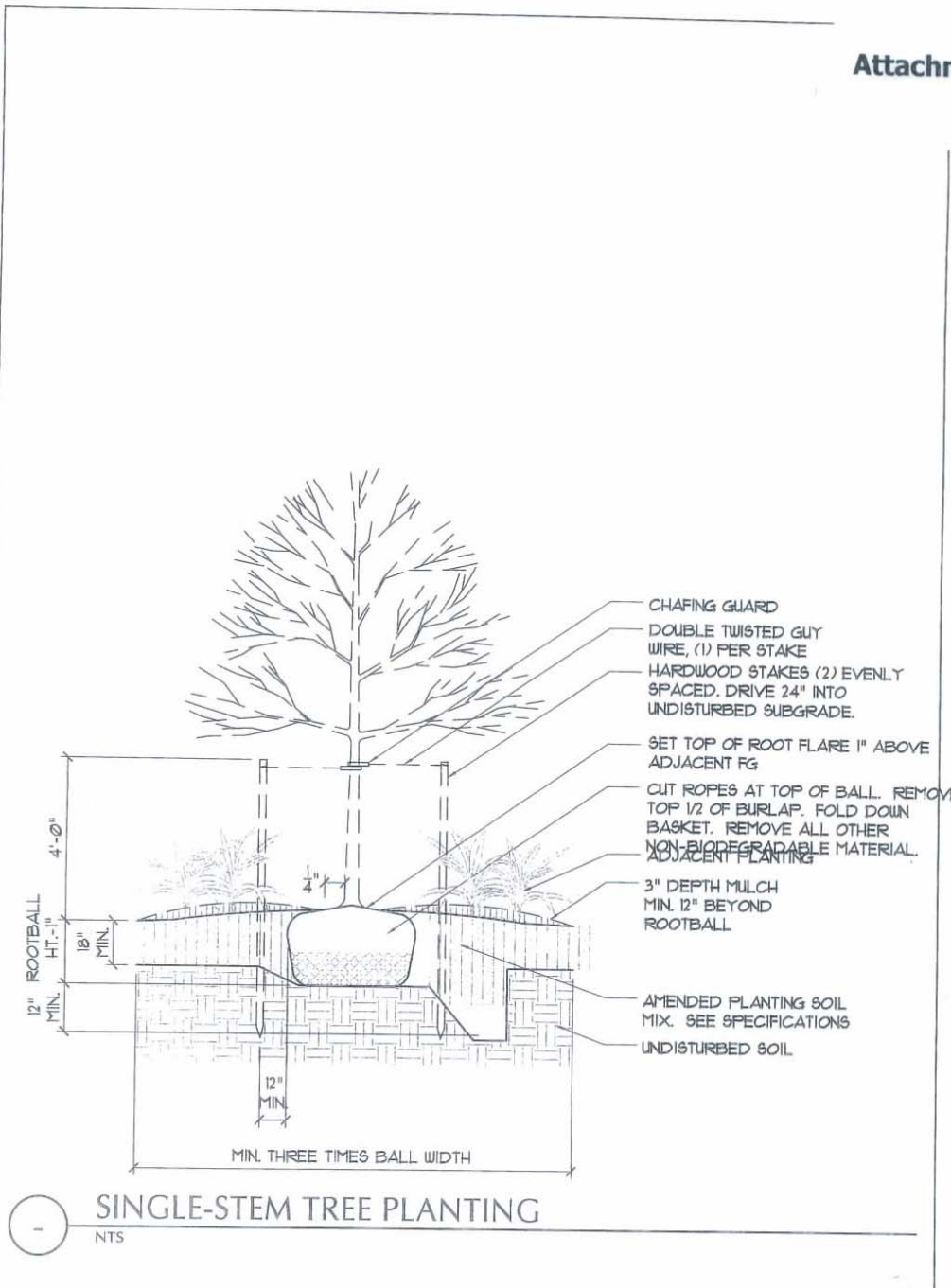
Scale: NTS
 Drawn by: DN/NN
 Reviewed by: MG
 Revised: 05/30/2008

BROAD RUN WATER RECLAMATION FACILITY AND INTERPRETIVE SITE
 Loudoun Water Aquary - Outdoor Phase 1

PHASE 1
 PLANTING DETAILS

PACKAGE SHEET
 E L1.8

Attachment C



LSG PROJECT NO. 240999.01
LEWIS
 LANDSCAPE
SCULLY
 ARCHITECTS
GIONET

Scale: NTS
 Drawn by: DN/NN
 Reviewed by: MG
 Revised: 05/30/2008

BROAD RUN WATER RECLAMATION FACILITY AND INTERPRETIVE SITE
 Loudoun Water Aquary - Outdoor Phase 1

PHASE 1
 PLANTING DETAILS

PACKAGE SHEET
 E L1.9