



a. Full, straight and upright with consistent symmetrical natural branching pattern throughout b. Branching Height-seven (7) feet to lowest branch in two years unless otherwise required by local jurisdiction

2. Deciduous Multi-Trunk

- a. Full and upright with straight consistent symmetrical natural branching pattern throughout b. Canes evenly spaced and of similar growth habit
- c. Free of suckers and extraneous branching
- 3. Evergreen Single-Trunk
- a. Full and upright with continuous symmetrical dense natural habit
- b. Clear branching height twelve (12) inches above top of rootball c. Free of suckers and extraneous branching
- d. Do not shear or otherwise prune to shape plantings

C.Evergreen and Deciduous Shrubs

- 1. Full, dense and naturally symmetrical.
- 2. Consistent with container and/or balled and burlapped size 3. Free of suckers and extraneous branching
- 4. Do not shear or otherwise prune or shape plantings
- D. Evergreen and Deciduous Groundcover
- E. Perennials and Seasonal Color 1. Full and dense in pots or flats

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F. Turf Grass

- 1. Subgrade a. Soil Mix-10% Compost, 90% topsoil by volume
- b. Preparation-loosen subgrade to a minimum depth of four (4) inches. Remove all non-natural materials including litter, stones, sticks and all items greater than ³/₄ inch in any dimension
- c. Preparation-spread soil mix at a depth of four (4) inches continuously to meet grade elevations shown on drawings. Allow for thickness of sod when applicable

2. Grass Sod

- a. Install not longer than twenty-four (24) hours from harvest
- b. Grass bed not less than two (2) inches in continuous thickness
- c. 100% continuous live sod coverage after first growing season and at end of warranty period. d. Of uniform non-varying density and continuous texture quality capable of growth and development
- immediately upon installation. Weed and noxious plant free
- e. Stagger installation rows and place aligned parallel to contours
- f. Fill joints solidly with planting bed preparation soil
- g. Provide anchor pins at twenty-four (24) inches on center for slopes greater than 4:1

3. Grass Seed

- a. Mix approved by the Landscape Architect
- b. Provide first and new of year seed crops in mix free of weed seeds and deleterious matter c. Provide seed mix not greater than 15% annual or perennial rye
- d. Coverage 85% continuous coverage live stand after first growing season and at end of warranty
- e. Replacement or overseeding mixes consistent with original application/installation
- f. Provide erosion blankets or other slope retention methods as noted on drawings

4. Erosion Control and Restoration Seed

- a. Preparation: The contractor is to limit subgrade preparation to areas that will be planted in the immediate future. The subgrade is to be loosened to a minimum depth of 4 inches, and the seeded areas are to be graded to a smooth, even surface with loose, uniformly fine texture. The areas to be seeded are to then be rolled and raked to remove ridges and fill depressions to meet finish grades. Fine grading will be limited to areas that can be planted in the immediate future. Prepared areas are to be moistened before seeding when soil is dry. Prior to planting, the surface is to be watered thoroughly and allowed to dry before planting with care not to create muddy soil. Prepared areas are to be restored if eroded or otherwise disturbed after fine grading and before planting.
- b. Installation: Seed is to be sown with a spreader or a seeding machine. Seed is not to be broadcast or dropped when wind velocity exceeds 5 mph (8 km/h). Seed is to be evenly distributed by sowing in two directions at right angles to each other. Wet seed or seed that is moldy or otherwise damaged in transit or stage is not to be used.
- c. After being sown, the seed is to be raked into the top 1/8 inch of the topsoil, lightly rolled and watered with fine spray.
- d. Seeded areas on slopes greater than 15% are to be protected with erosion control matting. All seeded areas are to be protected by spreading straw mulch or equivalent uniformly to form a continuous blanket over seed areas. Straw mulch is to be spread by hand, blower, or other suitable equipment, and anchored by crimping into the topsoil by suitable equipment or netting.

II. Materials and Appurtenances

- A.Testing
- B. Top Soil 25%
- C.Use of Existing Topsoil
- D. Shredded Hardwood Mulch Ph balance 5.5-7.5
- E. Composted Pine Bark Fines wood content

F. Compost Ph

with US-EPA CFR Title 40 Part 503 Standards for Class A biosolids

G.Compost Testing

H.Planting Mix

1. 85% topsoil and 15% Compost

- I. Fertilizer Product and Material Safety Data as approved by Owner
- J. Herbicide 1. Product and Material Safety Data as approved by Owner

K. Water

- 1. Potable only unless otherwise approved by Owner
- L. Hardwood Stakes 1. 2 x 2 x 48 inch square of sound hardwood, painted flat black on all sides
- M.Tree Ties 1. Villa Non-Abrasive Rubber Tree Ties or approved equal
- **N.Filter Fabric** 1. Mirafi 140-N or approved equal

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III. Execution

- A.Site Conditions
- acceptance prior to commencement of work.

- delivery and/or installation and warranty responsibilities.
- 5. Coordinate and cooperate with other trades working in and adjacent to work areas. Examine drawings of

B.Planting Seasons

work by others.

an individual project basis.

Deciduous and Evergreen Trees

- a.b. Dogwood (Cornus Sp.)
- a.c. Sweetgum (Liquidambar Sp.) a.d. All Conifers and Evergreens except White Pine (Pinus strobus Sp.)
- 2. Deciduous and Evergreen Shrubs

3. Perennials

- 4. Spring Flowering Bulbs a. Install/plant between September 15 and December 15
- 5. Seasonal Annuals
- a. Install/plant in season per approved schedule
- 6. Turf Grass
- 7. No Plant Installation

C.Positioning & Location of Plantings

installation

D.Implementation

Owner approval

- Plan accordingly for procurement of materials 3. Continuously update implementation schedule and notify Owner of progress. Delays related to material
- remedy of schedule delays. Do not work, place or modify frozen soil
- E. Clean Up
- furnishings, etc. 2. Repair any damage to existing conditions that occurred during execution of work. Architect

1. Materials testing information/certificates/dated labels shall be current to the project and performed/certified not greater than 120 calendar previous days from current date of submittal for review

1. Neutral Ph balance 5.5 -7.5. Friable and containing 2.0-5.0% organic matter by dry weight. Continuously free of non-soil items such as stones, debris, sticks, trash, and deleterious matter greater than ³/₄ inch in any direction. Clay content shall not exceed 25%. Gravel content shall not exceed 10%. Silt shall not exceed

1. Existing topsoil on-site may be repurposed with prior Owner approval. Contractor shall provide soil testing and additive program that demonstrates consistent performance and characteristics and composition as identified herein. Owner shall approve soil testing and soil amendment/additive methods and procedures

1. 100% organic shredded first year hardwood free of deleterious matter, rock, gravel and weed seed. Neutral

1. 100% organic ground pine bark with no particle dimension greater than ³/₄-inch and no greater than 10%

1. Balanced 5.0-8.5 mature, stable and weed free produced by natural aerobic decomposition. Free of visible contaminants and toxic substances. Not greater than 5% sand, silt, clay or rock by dry weight. Consistent

1. Prior to delivery on-site, the following items are required for approval by Owner: Feedstock percentage in final compost product; statement that the products meets federal, state and local health safety requirements 2. Provide copy of lab analysis less than 120 calendar days old verifying that the product meets described physical requirements; chemical contaminants; Ph; physical contaminants; biological contaminants (including a statement that fecal coliform and salmonella testing and results comply with requirements of the US Composting Council Seal of Testing approval programs

1. Granular 10% nitrogen, 6% Phosphorous, 4% Potassium granular form with 50% Nitrogen in organic form.

1. Inspect site and notify Owner in writing of acceptance with indication that project conditions are acceptable are suitable to proceed with work. Notify Owner of any existing damage and/or other conflicting conditions. 2. Do not proceed with work until unsatisfactory conditions have been satisfactorily remedied. Notify Owner of

3. Notify Owner in writing of any conditions that may preclude successful completion of work including items such as coordination with other trades, incomplete work, drainage, soil temperature and/or composition, access to storage/work areas, damage to conditions, etc.

4. Notify Owner in writing immediately of any items that may influence work schedule, timing of tasks, materials

other trades which show development of the entire project and become familiar with the scope of required

Recommended seasons are a general guide based on historical climatic data and typical performance of plantings, and which vary dependent on project-specific environmental conditions. Due to construction schedules, recommended planting seasons may/may not coincide with request(s) for certificate of occupancy for projects. Coordination of planting installation and seasons shall be reviewed with Owner on

a. Do not install/plant the following trees between September 15 and March 15 a.a. Oaks (Quercus Sp., Such as Q. rubra, Q. alba, Q. phellos, Q. coccinnea)

a. Install/plant between March 15 and June 15 and/or September 15 and November 30

a. Install/plant between March 15 and June 15 and/or September 15 and November 30

a. Install/plant between March 15 and May 15 and/or September 15 and November 30 b. Do not install/plant seed or sod turf grass areas when ambient air temperature is below forty (40) degrees Fahrenheit, or forecast for a twelve (12) hour period after completion of work

a. Do not install plantings or turf grass between June 15 and September 15, without approval by Owner

1. Position plants to show the most-prominent and well-formed face to most-public view

2. Field locate plants and location/spacing/dimension of planting beds on project site prior to beginning 3. Verify location of individual plants and plant beds prior to beginning installation. Do not proceed without

1. Pursue work continuously without delay or interruption until completion unless notified otherwise by Owner 2. Provide project submittals ahead of commencement of work. Landscape Architect requires a minimum of ten (10) working days from date of receipt for review of submittals and response to Owner and Contractor.

availability are not cause for non-completion of scheduled delivery of work 4. Report delays due to weather or site conditions immediately upon finding. Provide recommendation for

5. Report delays due to extraordinary natural or other conditions beyond control of Contractor

1. Remove trash, debris and work materials from site prior to request for substantial completion. Thoroughly clean surfaces impacted by work including building, parking areas, roadways, sidewalks, signs, lights, site

3. All clean-up and demobilization procedures shall be performed to satisfaction of the Owner and Landscape



PREVAILING

PLAN VIEV

NON-ABRAISIVE RUBBER TREE TIES TREE STAKES	CENTRAL LEADER	DATE
	REMOVE NURSERY STAKE	
	NON-ABRAISIVE RUBBER TIES. THREE (3) TWO INCH TREE STAKES. INSTALL 6" AWAY FROM EDGE OF THE ROOT BALL. STAKE LOCATION SHALL NOT INTERFERE WITH PERMANENT BRANCHES. STAKES SHALL BE PAINTED BLACK PRIOR TO INSTALLATION. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVERD COMPACT, WILLEN	REVISIONS
	DO NOT OVER-COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED LOOSENED SOIL. TURN THE SOIL TO REDUCE COMPACTION TO THE AREA AND DEPTH SHOWN. -4" LAYER OF MULCH. -MULCH ON TOP OF ROOT BALL SHALL NOT EXCEED 1"	
A WIDEST DIMENSION OF ROO A WIDEST DIMENSION OF ROO CIDUOUS TREE SCALE	BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTING	Kimley Morn © 2021 KIMLEY-HORN AND ASSOCIATES, INC. 1700 WILLOW LAWN DR, SUITE 200, RICHMOND, VA 23230 PHONE: 804–673–3882 WWW.KIMLEY-HORN.COM
ZX WIDTH OF ROOT BALL REGREEN TREE	 GUY WIRES (3), WHITE FLAG ON EACH 2 STRANDS OF TWISTED GALVANIZED WIRE EACH TURNBUCKLE (3), GALVANIZED SET TREE AT ORIGINAL GRADE OR UP TO 1/8 DEPTH OF ROOT BALL 2" SHREDDED HARDWOOD MULCH SOIL SAUCER: USE PREPARED SOIL, 6" MIN. ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP 1/2 OF BURLAP. NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED PLANTING SOIL MIX PER PLANTING SPECIFICATIONS UNDISTURBED SOIL PEDESTAL 	KHA PROJECT 113382001 DATE DATE 10/20/2021 Scale AS SHOWN Designed by DEV Draw BY Designed by DEV Draw BY DATE: 10/20/2021 DATE 10/20/2021 DATE 10/20/2021 DATE 10/20/2021 DATE 10/20/2021 DATE 10/20/2021 DATE DATE DATE DATE DATE DATE DATE DATE
SCALE		LANDSCAPE DETAILS & SPECIFICATIONS
		SITE DEVELOPMENT PLAN PLAN REPARED FOR ADESA BOSTON MA OF HOLLISTON MA

SHEET NUMBER

16 OF 17