

once tree is in place and remove twine -

Mulch over soil ring-do not build up mulch

Dig hole 2x wider than dia. of root ball

Back fill with specified soil - avoid air pockets

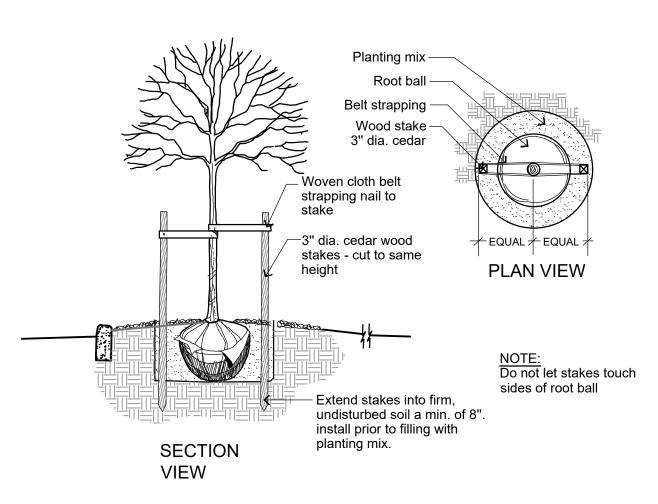
onto trunk of tree

(see specifications)

**EVERGREEN TREE PLANTING DETAIL** 

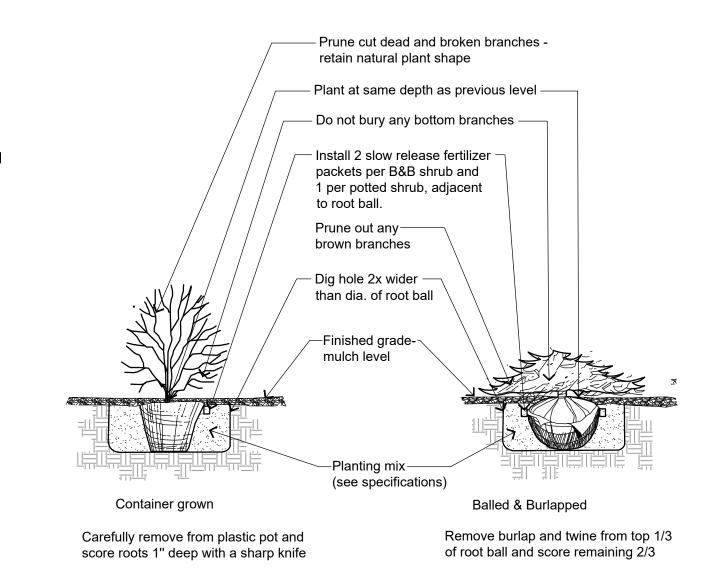
carefully bend down remaining wire to bottom

2"x2"x24" Wood stakes Rubber hose Root ball Plantiing mix **PLAN VIEW** Rubber hose-affix above first crotch of tree Yellow poly rope 2"x2"x24" Notched wood stakes-3 per tree-set into solid ground



**DECIDUOUS TREE STAKING DETAIL** 

DECIDUOUS TREE STAKING FOR RESTRICTED AREAS



2"x2"x24" Wood stakes Rubber hose Root ball Planting mix **PLAN VIEW** Rubber hose-affix directly Yellow poly rope avoid disturbing tree branches during installation 2"x2"x24" Notched wood stakes-3 per tree-set into solid ground

EVERGREEN STAKING DETAIL

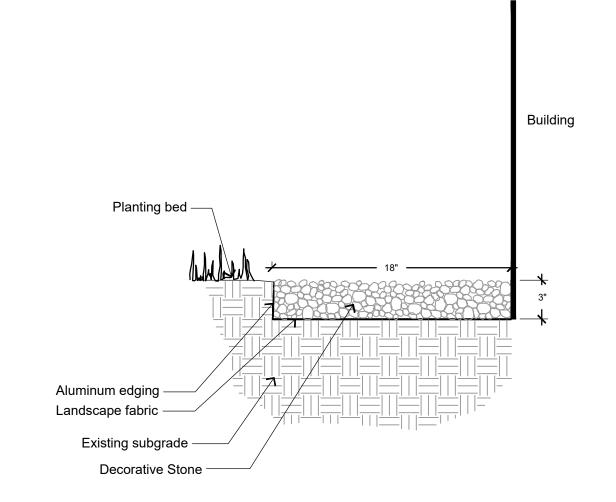
SHRUB PLANTING DETAIL

ras-2021-3210080-07

THIS PLAN IS FOR MUNICIPAL REVIEW

NOT FOR BIDDING

OR CONSTRUCTION PURPOSES



THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE

WRITTEN CONSENT OF R.A. SMITH, INC.



Call before you dig.

**DIVISION 1 - GENERAL REQUIREMENTS** 

01 5 00 Substitution Procedures 1. Any potential plant substitutions must be submitted in writing and approved by the general contractor or owner's representative prior to installation. All plants must be installed as per sizes shown on plant material schedule, unless approved by general contractor or owner's representative. Any potential changes to sizes shown on plan and appropriate cost credits / adjustments must be submitted in writing to the landscape architect and general contractor prior to

01 11 13 Work Covered by Contract Documents

1. All trees, evergreens, and shrubs to be guaranteed (100% replacement free of cost to owner) for a minimum of one (1) year from the date of substantial project completion. Perennials, groundcovers, and ornamental grasses to be guaranteed for a minimum of one growing season from the date of substantial project completion. Perennials, groundcovers and ornamental grasses planted after September 1st shall be guaranteed through May 31st of the following year. Replace plants as necessary, during normal planting season. Only one replacement per plant will be required during the warranty period, except for losses or replacements due to failure to comply with specified requirements. Replacements shall be plants of the same variety specified on the plan and closely match adjacent specimens in size.

2. Upon substantial completion of the project, landscape contractor is responsible to conduct a final review of the project with the owner's representative and the general contractor to answer questions and insure that all specifications have been met. The landscape contractor shall provide watering and general ongoing maintenance instructions (in writing) for the new plantings and seeded/sodded areas.

1. Contractor responsible for contacting public and private underground utility locating service to have site marked prior to any digging or earthwork.

2. Contractor to verify all plant quantities shown on plant list and verify with plan. Report any discrepancies immediately to general contractor. Inform landscape architect and general contractor of date(s) when planting shall commence.

**DIVISION 32 - EXTERIOR IMPROVEMENTS** 

32 84 00 PLANTING IRRIGATION - FRONT ENTRANCE ONLY SEE SHEET L201 FOR AREA TO BE IRRIGATED

1. The landscape contractor shall provide a design / build irrigation construction plan to the owner and municipality (if required) that complies with State and local code requirements for review and approval prior to construction.

2. The Irrigation designer shall be certified by The Irrigation Association as a Commercial Irrigation Designer and have at least 5 years' experience designing irrigation systems of similar size and scope. 3. The Irrigation system shall be metered to meet the requirements of the State and local codes; be fully automatic utilizing a weather based controller with

rain/moisture sensors; zoned to water the turf with minimum over throw on hardscapes, buildings and other structures; coverage of all plant / turf areas with

4. Turf areas shall be irrigated with pop-up rotary heads and all shrub / perennial beds shall be irrigated with a drip system.

head to head watering and be operational from a domestic water source provided by the owner.

5. Contractor may use the following approved manufacturers Hunter, Rainbird or Toro. Provide first year winterization and following spring startup.

6. Landscape contractor shall provide a complete set of "As-Built" plans of the installed irrigation system to the owner on reproducible vellum.

## 32 90 00 - PLANTING

1. Areas to be seeded: remove / kill off any existing unwanted vegetation prior to seeding with a glyphosate herbicide, applied only by a state certified applicator no sooner than 2 weeks prior to seed installation. Prepare seed bed areas to a maximum depth of 1 inch. Prepare the topsoil by removing all surface stones 1" or larger. Soil's surface should be loose and free of any soil clumps exceeding 1 inch in diameter. Do not fertilize native seeding areas.

6. Plant bed preparation: all perennial, ornamental grass, annuals and groundcover areas are to receive a blend of organic soil amendments prior to installation. Rototill the following materials, at the following ratio, into the required topsoil to a depth of approx. 8":

a. Per every 100 square feet of plant bed area:

b. 2 cu. Ft. Bale of peat moss

c. 2 lbs. of 5-10-5 slow release fertilizer d. 1/4 cu. Yard of composted manure

3. Lawn areas: apply a starter fertilizer and specified seed uniformly and provide mulch covering suitable to germinate and establish turf. Provide seed and fertilizer specifications to general contractor prior to installation.

4. Erosion control measures are to be used in swales and on steep grades, where applicable.

1. All tree and shrub planting beds to receive a 3" deep layer of high quality shredded hardwood bark mulch (not enviromulch). All perennial planting areas to receive a 2" layer and groundcover areas a 1-2" layer of the same mulch. Do not mulch annual flower beds (if applicable). Do not allow mulch to contact plant

2. If straw mulch is used as a mulch covering for seeding, a tackifier may be necessary to avoid wind damage.

## **32 1 19 LANDSCAPE GRADING**

32 1 19.13 Topsoil Placement and Grading

1. Topsoil should be placed to within 3" of finish grade by general / grading contractor during rough grading operations. The landscape contractor to be responsible for the fine grading of all landscaped areas. Finished landscaped areas to be smooth, uniform and provide positive drainage away from all

2. All parking lot islands and planting beds to be backfilled with topsoil to a minimum depth of 18" by grading contractor to insure long term plant health. Crown all planting islands and planting beds a minimum of 6" to provide proper drainage, unless otherwise specified.

3. All seeded areas to receive a settled minimum depth of 3" of topsoil. Landscape contractor is responsible for excavation and removal of unwanted material (gravel, debris, roots and other extraneous material harmful to plant growth) to the specified depth, backfilling with topsoil and the fine grading of all planting beds and lawn areas.

## 32 92 00 - TURF AND GRASSES

1. Seed type for lawn areas. - use only a premium quality seed mix installed at recommended rates which will germinate quickly. Premium blend seed mix example (or equivalent): 50% blended bluegrass, 25% creeping red fescue, 25% perennial rye applied at 5 lbs per 1,000 SF. Provide seed specifications to general contractor prior to installation.

2. Methods of installation may vary at the discretion of the landscape contractor on his/her responsibility to establish and guarantee a smooth, uniform, quality turf and evenly seeded native areas.

3. An acceptable quality seed installation is defined as having: a. No bare spots larger than 1 square foot

b. No more than 10% of the total area with bare spots larger than 1 square foot c. A uniform coverage throughout all areas

32 93 00 - PLANTS

1. All plantings shall comply with standards as described in American Standard of Nursery Stock - ANSI Z60.1 (latest version). General contractor or owner's representative reserves the right to inspect and potentially reject any plants that are inferior, compromised, undersized, diseased, improperly transported, installed incorrectly or damaged.

2. The landscape contractor is responsible for the watering and maintenance of all landscape areas at time of planting, throughout construction and for a period of 60 days after the substantial completion of the installation. This includes all trees, shrubs, evergreens, perennials, ornamental grasses, turf grass, meadow grass and wildflower areas. Work also includes weeding, edging, mulching (only if required), fertilizing, trimming, sweeping up grass clippings, pruning and deadheading. Refer to the maintenance sections and specifications for more information.

32 93 33 Shrubs

1. All shrubs to be pocket planted with a 50/50 mix of plant starter and topsoil. Install topsoil into all plant beds as needed to achieve proper grade and replace undesirable soil (see planting detail). Remove all excessive gravel, clay and stones from plant beds prior to planting. When hole is two-thirds full, plants shall be watered thoroughly and water left to soak in before proceeding 2. Do not bury any shrub branches or build up any mulch onto base of shrubs.

32 93 43 Trees

1. Trees shall be planted per planting details 2. Plant all trees slightly higher than finished grade at root flare. Remove excess soil from top of root ball, if needed.

Scarify side walls of tree pit prior to installation.

4. Remove and discard non-biodegradable ball wrapping and support wire. Remove biodegradable burlap and wire cage (if applicable) from top one-third (1/3) of root ball. Carefully bend remaining wire down to the bottom of the hole once the tree has been placed into the hole and will no longer be moved. Biodegradable burlap and twine is preferred over non-biodegradable ball-wrapping. 5. Score the remaining two-thirds of burlap and remove twine.

6. Backfill tree planting holes with 80% existing soil removed from excavation and 20% plant starter mix blended prior to backfilling holes. Avoid any air

pockets and do not tamp soil down. Discard any gravel, heavy clay or stones.

7. When hole is two-thirds full, trees shall be watered thoroughly and water left to soak in before proceeding.

8. Provide a 3" deep, 4 ft. Diameter shredded hardwood bark mulch ring around all trees. Do not build up any mulch onto trunk of any tree. 9. Trees that are installed incorrectly will be replaced at the time and expense of the landscape contractor.

10. If Trees too large for two people to lift in and out of holes shall be placed with sling. Do not rock the trees in holes to raise them.

11. Stake trees according to the staking detail.

## 32 94 00 - PLANTING ACCESSORIES

32 94 13 Landscape Edging

1. Edge all planting beds with a 4" deep spaded edge (shovel cut or mechanical). Bedlines are to be cut crisp, as per plan. A clean definition between lawn and plant bed is required.

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DATE: **07/26/2021** 

SCALE: NOT TO SCALE

JOB NO. **3210080** PROJECT MANAGER:

TOM MORTENSEN, ASLA, PLA DESIGNED BY: TM

CHECKED BY: TM SHEET NUMBER

L300



SHOVEL CUT PLANT BED EDGING DETAIL

Bedlines are to be cut crisp as per plan. a

clean definition between turf and plant bed

Top of mulch to be flush with turf

is required.

NOT TO SCALE

STONE MAINTENANCE STRIP DETAIL

ras-2021-3210080-17

EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED