

SECTION 32 900 PLANTING INSTALLATION

PART 1 - GENERAL 1.01 QUALITY ASSURANCE

A. QUALIFICATIONS OF WORKMEN Provide at least one person who shall be present at all times during execution of this portion of the Work and who shall be thoroughly familiar with the type of materials being installed and the best methods for their installation and who shall direct all work performed under this section.

B. APPLICABLE DOCUMENTS The following specifications and standards of the issues listed and referred to in this Section form a part of this Specification to the extent required by reference thereto:

All plants specified in the Plant Schedule shall be located and certified available to be planted. Contractor shall notify Owner's Representative at once of

1. American Standard for Nursery Stock, ANSI Z60.1, Current Edition 2. American National Standard for Tree Care Operations, International Society of Arboriculture, ANSI A300. 1.02 PLANT AVAILABILITY

any unavailable plant material. Locate underground utilities and drainage lines on the site with flags or similar markings prior to excavating or driving stakes. Take proper precautions to

prevent damaging or disturbing these improvements. Contractor is responsible for damage or dislocation by his company.

1.04 INSPECTION AND ACCEPTANCE A. INSPECTION Inspection - a verification of performance for work defined by contract documents, to be conducted by the Owner's Representative on site and in

the presence of the Landscape Contractor for the purpose of acceptance. Inspection shall be made within two (2) weeks of written notification from

the Landscape Contractor. Failure of the Owner's Representative to inspect the work shall not void the guarantee. During inspection for initial acceptance, the Landscape Contractor should have an acceptance form to be signed by the Owner or Owner's Representative.

B. INITIAL ACCEPTANCE The Owner's Representative shall perform an inspection with the Contractor after the initial planting operation. Initial planting operation ends when: 1. All plants are installed, mulched, and watered as specified;

Stakes and guys, if specified, are in place: 3. All construction material and excess excavated material is removed and clean-up is completed.

Upon completion and re-inspection of all repairs or renewals required by the Owner's Representative, the Owner's Representative shall certify in writing that the work has been accepted. Acceptance can be given for partially completed work under the contract, if approved by the Owner or Owner's Representative. If, for reasons

beyond the Landscape Contractor's control, work has stopped, inspection shall be made of partially completed work. The Owner's Representative shall make a maximum of two initial inspections. Additional inspections required for approval of newly installed material or previously rejected material will be at the Contractor's expense.

Warranty shall begin after landscape inspection and acceptance. Note: The Landscape Contractor should periodically inspect the site during the warranty period and notify the Owner or Owner's Representative in writing if proper maintenance is not being performed.

D. FINAL INSPECTION AND ACCEPTANCE At the end of the maintenance and guarantee period and upon written request of the Contractor, the Owner's Representative shall inspect all guaranteed work for final acceptance. The request shall be received by the Owner's Representative at least 14 days before the anticipated date for final inspection. Upon completion and re-inspection of all repairs or replacements necessary in the judgment of the Owner's Representative, the Owner's Representative shall certify, in writing, that the project has received final acceptance. In no way will final acceptance of landscaping precede

2.03 CONTAINER GROWN PLANT MATERIALS final acceptance of entire project.

1.05 WARRANTY PERIOD AND REPLACEMENTS The standard warranty is for a one (1) year period, excluding bulbs and annuals, commencing on the date of initial acceptance. All plants shall be alive and in satisfactory growth at the end of the guarantee period. Plants shall be free of dead or dying branches and branch tips, and shall bear foliage of a normal density, size and color. Any material that is 25% dead or more shall be considered dead and must be replaced at no charge. A tree shall be considered dead when the main leader has died back, or when 25% of the crown is dead. Deciduous material shall be guaranteed to break dormancy if planted in dormant season. Perennials shall be guaranteed to show signs of healthy growth by May 15 - June 1. Any delay in completion of planting operations which extends the planting into more than one planting season shall extend the Warranty Period correspondingly. Replace without cost to Owner, and as a vigorous, thriving condition, as determined by the Owner's Representative during and at the end of the Warranty Period. Replacement shall closely match adjacent specimens of the same species and shall be subject to all requirements of this specification. The Contractor shall not be held responsible for failures due to neglect by the Owner, vandalism, etc., during the Warranty Period, Report such conditions to the Owner in writing, Plant material exhibiting conditions which are determined by the Owner's Representative as being unacceptable due to action during planting and maintenance

operations shall be replaced at no additional cost to the Owner. Annuals and bulbs are not guaranteed.

1.06 PRODUCT HANDLING A. DELIVERY AND TEMPORARY STORAGE

C. MAINTENANCE OF SITE DURING PLANTING

1. Insofar as is practicable, plant material shall be planted on the day of delivery. In the event this is not possible, the Contractor shall protect the 2. Protect plants at all times from sun or drying winds. Plants that cannot be planted immediately on delivery shall be kept in the shade, with the root mass well protected and kept well watered. Plants shall not remain unplanted for longer than three days after delivery to the site.

B. APPROVALS AND REJECTION OF MATERIALS AND WORK The selection of all materials and execution of all preparations required under the Drawings and Specifications shall be subject to the approval of the Owner's Representative. The Owner's Representative shall have the right to reject any and all materials, any and all work, which in his opinion does not meet the requirements of the Specifications or Drawings at any stage of operations. All rejected materials shall be promptly removed from the site and shall not be discarded on adjacent sites.

Sidewalks, roads and other payement adjacent to planting operation shall be kept clean and free of obstructions, mud and debris at all times Wheels of vehicles used in work shall be cleaned if necessary. Flushing of streets or disposal of dirt or debris into sewers or drainage ditches will not be permitted. Dust shall be controlled by approved means to the satisfaction of the Owner's Representative.

PART 2 - PRODUCTS 2.01 PLANT MATERIALS

Representative.

A. PLANTS, IN GENERAL All plants shall be in accordance with the American Standards for Nursery Stock, and with the following additional requirements. 1. Plants shall be so trained in development and appearance as to be unquestionably superior in form, compactness, and symmetry. They shall be sound, healthy, vigorous, well-branched, and densely foliated when in leaf. Plants shall be free of disease and insect adults, eggs, pupae, or larvae. They shall have healthy, well-developed root systems and shall be free from physical damage or other conditions that would prevent

2. A complete list of plants, including quantities, sizes, and other requirements is included in the contract documents. In the event that discrepancies occur between quantities of plants indicated in the plant list and on the drawings, the quantities indicated on the drawings shall 3. The Contractor shall furnish a written list of proposed sources of nursery stock. This list may not be altered without consent of the Owner's

PLANTING SPECIFICATIONS

4. Substitutions of plants must be authorized in writing by the Owner's Representative. If proof is submitted in writing that a plant specified is not obtainable, consideration will be given to the nearest available size or similar variety, with a corresponding adjustment of the contract price. Owner's Representative will obtain approval from the Owner or local governmental agencies, as required, prior to approving any substitutions. 5. Plants shall conform to the measurements specified except that plants larger than those specified may be used if approved by the PART 3 - EXECUTION

other plants. If larger plants are approved, the root ball, root spread, or container shall be increased in proportion to the size of the 3.01 PLANTING METHODS 6. All plants shall comply with state and federal laws governing the shipping, selling, and handling of plant stock and inspection for plant

A. GENERAL

diseases and pest infestations. Inspection certificates required by law shall accompany each shipment of plants and shall be filed with the Owner's Representative before acceptance. The certificate shall bear the name and address of the source of the stock.

Owner. Use of larger plants shall not increase the contract price nor allow the Contractor to use smaller than specified material on

Transportation and storage of plant materials shall be in conformance with the following. a. The Contractor shall take care to prevent injury and drying out of plants during transportation. Should the roots dry out, large branches be broken, earth balls break or be loosened, or bark be torn, the Owner's Representative may reject the injured tree(s) and have them replaced at no additional cost to the Owner. b. Roots of each load of bare root stock shall be adequately covered with wet soil, sawdust, wood chips, or other acceptable

moisture-holding medium until planted. Loads shall be covered with an open-mesh tarpaulin, canvas, or other material to ensure that trees do not become overheated or damaged by wind during transport. Loads not protected in this manner may be rejected. c. Plants must be protected at all times from sun or drying winds. Those that cannot be planted immediately upon delivery shall be kept in the shade and watered well. Plants shall not remain unplanted longer than three days after delivery without permission from the Owner's Representative. d. Plants shall be lifted and handled with suitable support of the soil ball and shall not be lifted by the trunk or branches.

8. Plant delivery and inspection shall be in conformance with the following. a. The Contractor shall give the Owner's Representative notice of delivery time seven to ten days prior to delivery. b. Each bundle or each plant shall have a durable and legible label with plant size and name (genus, species, variety, cultivar) securely attached when delivered and in place until after acceptance. Labels shall not girdle or damage plants. c. Plants shall be inspected by the Owner's Representative upon delivery. A Contractor's representative shall be present at all

inspections. Installation shall not begin until after all plants are inspected and accepted by the Owner's Representative. d. The Owner's Representative reserves the right to reject any plants that do not meet the standards or that have been damaged. Such approval shall not impair the right of inspection and rejection during progress of the work. The Owner's Representative shall be the sole judge of acceptability of stock at any time during the course of this contract.

for trees over 4 inches in caliper. Plants shall be measured when branches are in their normal position. If a range of size is given, no plant shall be less than the minimum size, and no less than 50 percent of the plants shall be as large as the maximum size specified. Trees

Tree trunks shall be straight and well-tapered. Trees with multiple leaders, unless specified, will be rejected. Damaged, cut, or crooked leaders: included bark, bark abrasions, sunscald, disfiguring knots, mold, and prematurely opened buds, or cuts of limbs over 3/4 inch diameter that are not completely callused are cause for rejection. Needled evergreens shall not have been sheared.

shall have a standard balance between height, crown spread, diameter, and root ball size according to the American Standard for Nursery

. BALLED-IN-BURLAP MATERIAL Balled-in-burlap (B&B) plants shall have firm, natural earth balls of a diameter not less than that recommended in American Standard for Nursery Stock, and of sufficient depth to include fibrous and feeding roots, Balls shall be securely wrapped with burlap and tightly bound with rope or twine, or trees may be in wire baskets lined with burlap and tightly bound with rope or twine. The trunk flare shall be within the top two inches of the soil ball. Balled-in-burlap plants with manufactured balls or balls that are dry, cracked, or broken before or during the planting operation will be rejected. Synthetic ball wrapping material will not be allowed in any case.

All container grown plants shall be healthy, vigorous, well-rooted and established in the container with a root system sufficiently developed to hold together when removed from the container. Plants shall not be pot bound nor have kinked, circling, or bent roots. The root ball periphery shall be free of circling roots larger than 1/4 inch in diameter. The container shall be sufficiently rigid to hold the root mass shape protecting it during shipment. No root bound container grown plants will be permitted. No broken container grown root mass shall be planted.

2.04 BARE ROOTED PLANT MATERIALS No bare rooted plant materials will be permitted.

2.05 COLLECTED PLANT MATERIALS

PLANTING SOIL MIXTURE

2.06 MISCELLANEOUS MATERIALS

Fertile, friable, natural topsoil of a loamy character without admixture of clay, hardpan, mulch, marl, shell or fine sand and capable of sustaining vigorous plant growth. It shall contain a normal amount (5-8%) of decomposed organic matter and shall be free of stones, lumps, plants or their roots, or seeds, sticks and other extraneous matter and shall contain no substance or material inhibitory to plant growth. The results of soil tests by the Contractor shall show that topsoil pH is between 5 and 7 and that topsoil is free of excessive soluble salts at time of use.

All topsoil used in tree and shrub beds shall be prepared and conditioned as follows: Mix one (1) part by volume of decomposed peat

moss, one (1) part builder's coarse sand and one (1) part topsoil to each cubic yard of the mixture. Provide one part planting soil mix for each three parts original soil removed from tree and shrub planting pits. MYCORRHIZAL INOCULANT Plant Success Granular Premium Mycorrhizae 3-1-2 granular inoculum as manufactured by Plant Revolution, Inc., 2133 S. Hathaway

Street, Santa Ana, California, 92705 or approved equal. Apply to planting mix surrounding all tree root balls and shrub root masses, as directed by the manufacturer. In groundcover areas, apply as a soil drench following planting operations.

shall only be applied during maintenance, not during planting operations.

2. Lime - Shall be raw ground limestone of agricultural grade and shall be added to topsoil at an incremental rate of 2 1/2 pounds per cubic yard to correct highly acid conditions as determined by soil test by the Contractor conducted prior to the spreading or mixing of 3. Aluminum Sulfate - Shall be unadulterated and delivered in containers with name of materials and manufacturer and net weight of contents and shall be added to topsoil at an incremental rate of 2 1/2 pounds per cubic yard to correct highly alkaline conditions as determined by soil test by the Contractor conducted prior to the spreading or mixing of topsoil.

1. Commercial Fertilizer 6-12-12: Fertilizer shall conform to applicable State fertilizer laws and shall be slow-release type. Fertilizer

Bark - Shall be of 100% organic decomposed shredded pine or hardwood and be free of weeds, diseases, seeds, spurs, insects and other foreign matter. Commercial organic grade, dark brown color, cured for at least one year, low in woody material, free from mineral or other foreign matter harmful to plant life.

Anchoring material shall be root staking materials as manufactured by Tree Frog Environmental Products, LLC of Mount Dora, Florida or approved equal. Anchoring material shall be provided two (2) per tree, and shall be installed using the manufacturer's recommendation

The Contractor shall make, at his expense, whatever arrangements may be necessary to insure an adequate supply of water to meet the needs of this project. Water shall be free from any harmful or objectionable organisms, seed or other materials.

1. The Contractor shall be responsible for planting at correct grades and alignment. 2. The Owner's Representative shall inspect all plant materials while in their containers and in their final locations prior to

3. The Contractor shall flag all underground utilities and structures prior to digging or staking. 4. Perform planting only during periods within the planting season when weather and soil conditions are suitable and in accordance with local accepted practices. Plants must be protected from excessive vibrations. Plants shall not be thrown or bounced off a truck or loader to the ground. Plants shall not be dragged, lifted, or pulled by the trunk or branches in a manner that will damage the branches or loosen the

Trees shall be gently removed from containers before planting. Trees shall not be pulled from the container by the trunk. Trees shall be set with the top of the trunk flare at or slightly above finished grade. Any soil above the trunk flare must be carefully removed. Plants shall be set on firm soil (undisturbed or compacted) so that plant will be at the same depth one year after planting. Any repositioning of trees shall be done by supporting and moving the root ball, not lifting by the trunk. . Roots that are circling the bottom, sides or surface of the root mass of containerized plants shall be gently separated and

directed away from the plant stem. B. PLANTING BED AND TREE PIT PREPARATION 1. Excavation of planting beds shall be in accordance with the planting details. Excavation may be done by shovel, backhoe, or stump grinder, but a soil auger may not be used. 2. Before setting any trees or shrubs, the sides of the pits shall be scarified, and the beds and pits backfilled with the topsoil

. SETTING PLANTS

mixture to a depth of 6 inches and tamped and watered.

1. Set plants at same relationship to finish grade as they bore to the ground from which they were dug. 2. Prepare planting beds as specified and set plants plumb and oriented for desired effect as directed by the Owner's

Caliper measurements shall be taken 6 inches above the trunk flare for trees up to 4 inches in caliper, and 12 inches above the trunk flare

3. Use topsoil mixture with micorrhizal inoclulant to backfill plant pits. When plant pits are approximately two-thirds full, soil shall be thoroughly watered to eliminate air pockets. After this initial watering, soil shall be installed to the top of the hole and again thoroughly watered. Backfill shall not be tamped or compacted. Fertilizer shall not be applied during the planting operation. . After the plant has been set, remove burlap, wire baskets, and other wrappings from at least the top half of the ball. Wraps may be left intact around the lower half of the ball if necessary to support the ball. However, all waterproof or water repellant wrappings shall be removed completely. Care must be taken to not crack or break the root hall. Turn under and bury too one-third of the burlap wrapping on the ball as shown on the details.

> . Form saucers capable of holding water about plant by placing a mound of topsoil around the edge of each filled in pit as 6. Mulch all pits with shredded bark or approved mulch material, keeping mulch 8 inches away from tree trunks. Provide 6-foot radius of mulch surrounding tree trunks unless otherwise shown on the plan. . Water all plants by hose immediately after planting.

9. All twine, rope, transit guards, plant labels, and wrappings around the trunk or branches shall be removed after planting.

The only pruning allowed at planting shall be removal of double leaders and dead, damaged, or broken branches. Pruning shall conform to American National Standard for Tree Care Operations, ANSI A300. No pruning paint or other wound dressing shall be used. Pruning shall be approved in advance by the Owner's Representative.

Soil, branches, rejected plants, wrapping material, and other debris resulting from installation shall be promptly cleaned up and removed. The work area shall be kept safe and neat at all times. Under no condition shall accumulation of soil, branches, or other debris become a public hazard.

3.02 MAINTENANCE OF TREES, SHRUBS, AND GROUND COVERS

Maintenance shall begin immediately after each plant is planted and shall continue until landscape inspection and final acceptance of the entire project. The Contractor shall furnish all labor, materials, and equipment required to protect and maintain plants in a healthy and flourishing condition, and to repair any damage to the site as specified during the maintenance period.

B. MAINTENANCE TASKS 1. The Contractor shall ensure that installed irrigation systems are functional and operational, or must provide deep watering of all trees and shrubs at least once a week, or as needed to maintain adequate soil moisture. Deep watering is the slow penetration of water throughout the entire root zone of each plant, a depth of approximately 24 inches. The watering schedule must respond to varying seasonal and soil conditions to maintain adequate, but not excessive moisture. If the soil does not adequately absorb water, the Contractor shall take actions that correct this condition without additional cost to the Owner. Watering shall cease at the first hard frost and shall resume when the ground thaws in the spring. Pruning shall conform to American National Standard for Tree Care Operations, ANSI A300 and shall be done by a certified arborist or other person trained to meet these standards. Dead, broken, or damaged branches may be pruned at any time. Pruning for form shall begin the year after installation. No tree shall be topped. Any tree damaged by improper pruning shall be replaced by the Contractor. Fertilizer shall be applied in late summer or early autumn during leaf fall. It is most effective at encouraging growth the following season when applied after growth ends but while soil is warm enough to take up and store the nutrients. A slow-release fertilizer shall be applied at a rate of three pounds of actual nitrogen per 1000 square feet per application and shall not exceed six pounds of actual nitrogen per 1000 square feet annually. A fertilizer ratio of 3:1:1 or 3:1:2 with a salt ndex of less than 50 shall be used. These ratios may be adjusted based on age and/or condition of the plant or soil and environmental conditions, when specified by the Owner's Representative. Fertilizer shall be uniformly distributed throughout the planting bed or root zone (an area with a diameter equal to the height of the tree). Fertilizer shall be thoroughly watered . Mulch shall be raked and smoothed to retain its functional and aesthetic purposes and replaced as needed to maintain a

depth of two to four inches at all times. An area of three to six inches in diameter around each tree trunk shall be kept clear . The Contractor shall keep the planted area free of litter and weeds. Any tree or shrub damaged by a lawnmower, weed whip, or other equipment shall be replaced. The Contractor shall secure the permission of the Owner before applying any herbicide, fungicide, or insecticide. The applicator shall comply with all regulations related to pesticide and herbicide application. The Contractor shall apply all

application, and in conformance with any state requirements. . The Contractor shall reset plants to proper grade or upright position, and restore planting saucers, as required. PROTECTION OF PLANTINGS Planting areas and plants shall be protected at all times against trespassing and damage of any kind for the duration of the

materials in complete accordance with state, federal, and local regulations. Contractor shall notify Owner and tenants prior to

END OF SECTION

maintenance period. If any plants become damaged or injured, they shall be treated or replaced as directed by the Owner's

SECTION 32 9200

PART 1 - GENERA

1.01 QUALITY ASSURANCE

 A. Qualifications of Workmen Provide at least one person who shall be present at all times during execution of this portion of the work and who shall be thoroughly familiar with the type of materials being installed and the best methods for their installation and who shall direct all work

performed under this Section. B. Approvals and Rejection of Materials and Work

1. The selection of all materials and execution of all preparations required under the Drawings and Specifications shall be subject to the approval of the Owner's Representative.

2. The Owner's Representative shall have the right to reject any and all materials, any and all work, which in his opinion does not meet the requirements of the Specifications or Drawings at any stage of the operations. All rejected materials shall be removed from the site and shall not be discarded on adjacent sites.

3. The Contractor shall notify the Owner's Representative at least 48 hours in advance of the time he intends to begin sodding and shall not proceed with such work until permission to do so has been granted by the Owner's Representative. Before starting the sodding operations on any area, final dressing shall have been completed.

4. All sodding and related operations shall be continuous operations.

5. Do not proceed with lawn preparation when ambient air temperature is below 32 degrees Fahrenheit. C. Maintenance of Site During Planting

1. Sidewalks, roads and other pavement adjacent to planting operation shall be kept clean and free from obstructions, mud and debris at all times. Wheels of vehicles used in work shall be cleaned if necessary. Flushing of streets or disposal of dirt or debris into sewers or drainage ditches will not be permitted. Dust shall be controlled by approved means to the satisfaction of the Owner's Representative.

Provide hose and lawn watering equipment as required.

1.03 PRECAUTIONS Locate underground utilities and drainage lines on the site with flags or similar markings prior to excavating or driving stakes. Take proper

All sod specified shall be located and certified available to be installed following completion of the related work.

precautions to prevent damaging or disturbing these improvements. Contractor is responsible for damage or dislocation by his company. 1.04 WARRANTY PERIOD A. Six months after final completion of maintenance period, lawn shall be solid color, well matted, and reasonably free from weeds.

B. Initial acceptance of the sodded areas shall coincide with substantial completion acceptance of the project. Inspection for Beginning of Warranty Period

Inspection of the planting work, to determine its completion for beginning the guarantee period, will be made by the Owner's Representative, and given approval in writing upon notice requesting such inspection by the Contractor.

2. Any delay in completion of planting operations which extends the planting into more than one planting season shall extend the warranty period correspondingly. 3. Contractor shall not be held responsible for failures due to neglect by Owner, vandalism, etc., during warranty period. Report such conditions to Owner's Representative in writing.

 Final Inspection and Replacements Inspection of the planting to determine its final acceptance will be made at the conclusion of the warranty period by the Owner's Representative. No grass shall be accepted unless the area shows a uniform, healthy stand of grass.

1.05 PRODUCT HANDLING A. DELIVERY AND STORAGE

1. Insofar as is practicable, sod shall be laid the day of delivery. In the event that this is not possible, the Contractor shall protect the sod not laid by placing it in a shaded area.

2. Sod that cannot be laid immediately on delivery shall be kept well watered and shall not remain unplanted for longer than 48

hours after delivery to the site.

Sod shall be cleanly cut in rolls having a reasonably uniform thickness of not less than 1 inch and a uniform width.

B. Sod shall consist of live, dense, well rooted growth of 419 Tifway bermuda, free from Johnson grass, nut grass and other noxious grasses and weeds. 2.02 MISCELLANEOUS MATERIALS

Fertile, friable, natural topsoil of a loamy character without admixture of clay, hardpan, mulch, marl, shell or fine sand and capable of sustaining vigorous plant growth. It shall contain a normal amount (5-8%) of decomposed organic matter and shall be free of stones, lumps, plants or their roots, or seeds, sticks and other extraneous matter and shall contain no substance or material inhibitory to plant growth. The results of soil tests by the Contractor shall show that topsoil pH is between 5 and 7 and that topsoil is free of excessive soluble salts at time of use.

B. Amendments 1. Fertilizer / inoculant: MycoApply® All Purpose Granular inoculum as manufactured by Mycorrhizal Applications, Inc., PO

Box 1029, Grants Pass, Oregon 97528, Phone 866-476-7800, FAX 541-476-1571, or other approved endomycorrhizae /

2. Agriculture Limestone: Agriculture limestone shall contain not less than 85% of calcium carbonate and magnesium

carbonate combined and shall be crushed so that at least 85% will pass the No. 10 mesh sieve. 3. Water: The Contractor shall make out his expense, whatever arrangement may be necessary to ensure an adequate supply of water to meet the needs of his project. Water shall be free from any harmful or objectionable organisms, seed or

SODDING SPECIFICATIONS

NOT TO SCALE

RED SUNSET MAPLE

I WILLOW OAK

PART 3 - EXECUTION

- 3.01 SODDING METHOD A. The area to be sodded shall be brought to the lines and grades shown on the plans or as directed by the Owner's Representative. The surface of the ground to be sodded shall be loosened to a depth of not less than 1
 - inch with a rake or other device. The ground shall be sprinkled with water until saturated for a minimum depth of 1 inch and kept moist until the sod is placed.
- surface of the ground. Fertilizer/inoculant shall be applied at the rate of 10 pounds per 1,000 square feet. Agricultural limestone shall be applied at the rate of 75 pounds per 1,000 square feet or as directed by soil test

B. Immediately before placing the sod, fertilizer/inoculant and lime shall be applied uniformly to the prepared

- C. Sod shall be placed as soon as practical after removal from the point of origin and shall be kept in a moist condition during the interim. The sod shall be carefully placed by hand on prepared ground surface with the
- edges in close contact and as far as possible in a position to break joints. D. Immediately after placing the sod, it shall be thoroughly wetted and rolled with an approved roller or hand tamped as approved by the Owner's Representative. On sloped of 2 to 1, or steeper, pinning or pegging is required to hold the sod in place.
- 3.02 CARE DURING CONSTRUCTION A. All sodded areas shall be cared for properly to the Owner's Representative's satisfaction until acceptance of the work. Such care shall include watering and mowing the sodding areas when required by Section 3.03. When
- mowing is required, mower blades shall be set at sufficient height to protect the vitality of the growth. B. Surfaces gullied, eroded areas, or any damaged areas found following sodding shall be repaired by regrading
- and resodding as directed by the Owner's Representative. The Contractor shall regrade, re-fertilize, and re-sod any or all sodded areas as directed by the Owner's
- Representative regardless of who may have caused the unacceptable or unsatisfactory area. D. The Contractor shall be responsible for protecting his work at all times and shall erect temporary barricades to

Representative to correct any unsatisfactory and unacceptable conditions as determined by the Owner's

3.03 MAINTENANCE A. Genera

END OF SECTION

do so.

- Maintain, protect and care for newly sodded lawns until a healthy, uniform, close stand of grass is established free of weeds, bare spots or surface irregularities. Sodded areas will not be accepted prior to substantial completion of project.
- 2. Maintenance period for newly sodded areas shall not be less than a period of 60 calendar days. If the 60 day period has not elapsed by November 15, the maintenance period shall be suspended and shall recommence
- on March 30 until the full 60 days plus 30 days have been provided. Maintenance requirements include: mowing, spraying for weeds, insects and disease for a minimum period of 60 days and until all surfaces irregularities do not exceed 2% of the area. Water as required to maintain adequate moisture in top 4" of
- topsoil and when directed by Owner's Representative. Mow when grass height exceeds 2"
- Immediately sod any areas that show bare spots. Inspections to determine acceptance of warranty period of sodded areas will be made by the Owner's Representative upon
- Contractor's request at completion. 1. Lawn areas will be acceptable provided all requirements including maintenance have been complied with, and a healthy
- uniform, closed stand of the specified grass is established free of weeds, undesirable grass species, disease and insects.

B. Upon written notice of final acceptance of maintenance period, the Owner will assume lawn maintenance and 6 month warranty

1. LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY START OF PLANTING INSTALLATION. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ANY DAMAGES TO SUCH UTILITIES INCURRED BY HIS COMPANY. THE LANDSCAPE CONTRACTOR SHALL LOCATE A SOURCE FOR ALL PLANTING MATERIALS PRIOR TO A SUBMITTING BID. PLANT SOURCES SHALL BE IDENTIFIED ON THE CONTRACTOR'S BID. 3. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY OR ALL PLANTING MATERIALS WHICH IN HER OPINION DOES NOT APPEAR TO BE FIT FOR THIS PLANTING INSTALLATION. 4. THE LANDSCAPE CONTRACTOR CANNOT SUBSTITUTE ANY PLANT MATERIAL WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT, EXCEPT FOR SUBSTITUTING LARGER SIZED PLANTS OF THE SAME QUALITY SPECIFIED WITHOUT ADDITIONAL COST TO THE OWNER. NO UNDERSIZED PLANT

5. ALL PLANT MATERIALS SHALL CONFORM TO THE "AMERICAN STANDARD

6. AREAS OUTSIDE MULCH BORDERS AND ALL ISLANDS SHALL BE SODDED

FOR NURSERY STOCK" SPECIFICATIONS, LATEST EDITION.

EXCEPT WERE OTHERWISE SPECIFIED. **GENERAL NOTES**

MATERIAL WILL BE ACCEPTED.

NOT TO SCALE

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MATCHING

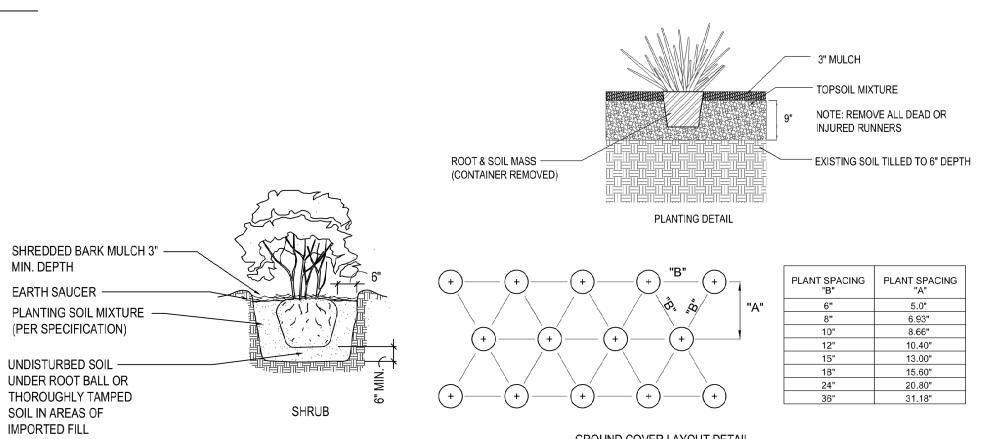
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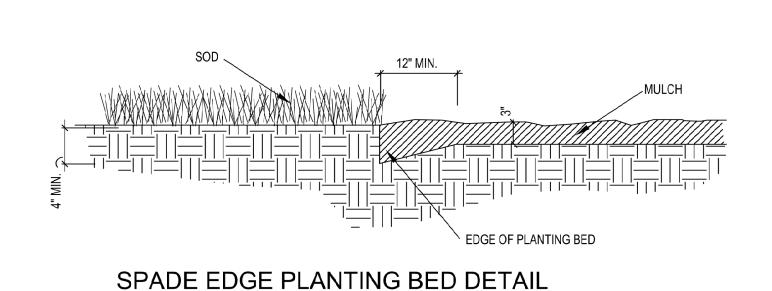
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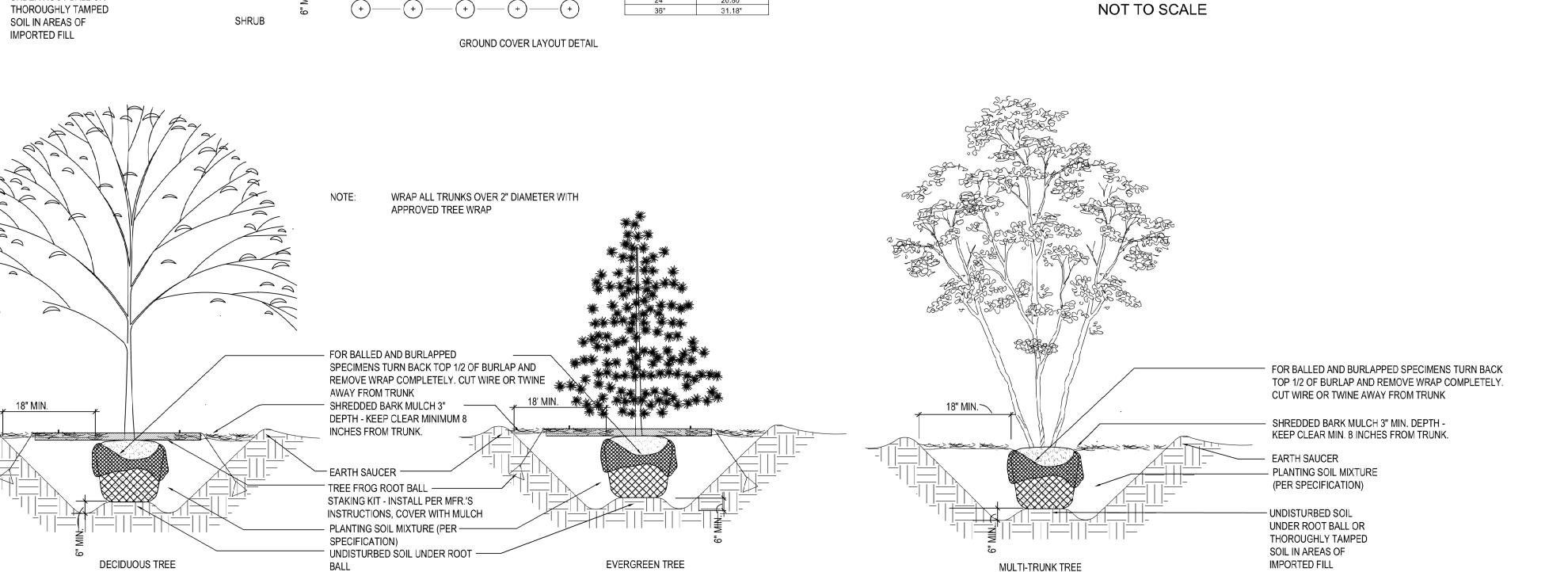
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TYPICAL PLANTING DETAILS

NOT TO SCALE





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NOT TO SCALE