

LAWN SPECIFICATIONS

PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Planting lawns in disturbed areas and areas indicated on the Drawings.
- 1. Establishing finish grades. Providing seeded lawns.
- .02 PRODUCT DELIVERY, STORAGE AND HANDLING
- A. Deliver seed materials in original, unopened containers showing weight, analysis and name of manufacturer. Store in a manner not to impair effectiveness.
- 1.03 JOB CONDITIONS
- A. Planting Season: Sow grass seed immediately after preparation of bed. Perform spring seeding between April 1st and June 1st; fall seeding between August 15th and October 15th, or at such time as approved by Owner's Representative.

PART 2 PRODUCTS/MATERIALS

2.01 MATERIALS

- A. Fertilizer: Commercial Fertilizer containing 10% nitrogen, 6% phosphoric acid and 4% potash by weight. One quarter of nitrogen shall be in form of nitrates, one quarter in form of ammonia salt and one half in form of organic nitrogen. Phosphoric acid shall be from super-phosphate, bone or tankage. Potash shall be in form of sulfate of potash. Availability of various elements shall conform to standards of the Association of Official Agricultural Chemists.
- B. Grass Seed:
- 40% Kentucky Bluegrass
- 15% Patriot 4 or Laredo II Perennial Ryegrass 15% Amazing GS Perennial Ryegrass
- 15% Revenge GLX Perennial Ryegrass 15% Replay Perennial Ryegrass

Or approved equal.

Depending on time of seeding, Annual Ryegrass may be added to the seed mix for quick cover, if requested by Owner, at no additional cost to project.

- C. Topsoil: Existing topsoil from on-site to be respread under earthwork operations. Supplement existing topsoil with new topsoil in accordance ith ODOT Item 653 to achieve specified depth in all areas to be seeded.
- D. Mulch: Clean straw or other approved material, well-seasoned before baling, containing less than 20% moisture by weight, free from mature seed- bearing stalks or roots of prohibited or noxious weeds. Mulch shall not contain the stems of tobacco, soybeans or other coarse or woody materials.
- Asphaltic Emulsion: Refined petroleum asphalt emulsified in alkaline water without use of clay, starch or deleterious substances, and not more than 0.75% of saponifiable acids; of a fluid consistency suitable for spray application with or without dilution with water and with no petroleum solvents or other diluting agents toxic to plant life.

PART 3 EXECUTION

3.01 GENERAL

A. Hydroseeding my utilized to install lawns only if approved in writing by the Owner. If hydroseeding is approved by the Owner, protect adjacent pavements and/or structures from overspray. Any overspray shall be immediately and completed removed from affected pavements and/or structures.

- A. Contractor shall test topsoil at an approved testing lab to obtain recommendations for amendments for lawn crops.
- B. Spread existing stockpiled topsoil to a minimum 4" depth in all areas to be seeded.
- C. Finish grade all areas to receive new lawns. Remove any foreign materials larger than 2" from lawn areas. Areas shall be raked of all denuded matter.
- D. Do not finish grade topsoil in muddy or frozen condition.
- E. Prior to seeding, apply ground agricultural limestone to soil, if necessary, at rate determined by Contractor's soil tests to adjust pH of soil at no less than 5.0. Distribute ground limestone evenly by machine over whole area and incorporate thoroughly into soil.
- F. After topsoil and, if necessary, limestone have been spread, apply fertilizer at rate recommended in the soil test

3.03 LAWN SEEDING

- A. Sow grass seed immediately after preparation of bed.
- B. Sow grass seed evenly by mechanical spreader at rate of five (5) pounds per 1000 square feet. Do all seeding when soil is dry and wind does not exceed 5 mph velocity.
- C. After seeding, rake surface of soil slightly with a fine toothed rake to incorporate seed into top 1/8" of soil and roll with light lawn roller as directed by Owner's Representative.
- D. Place mulch uniformly on seeded areas within 24 hours after seeding.
- E. Place mulch uniformly in a continuous blanket at rate of one and one half bales per 1,000 square feet.
- F. Where size of areas mulched precludes use of equipment, mulch may be anchored by use of a light covering of topsoil or other approved means.
- G. Protect buildings, site walls, pavements and plantings and non-seeded areas from asphaltic emulsion overspray.
- 3.04 CLEANUP AND PROTECTION
- A. During lawn operations, keep pavements clean and work area in an orderly condition.

3.05 LAWN MAINTENANCE

- A. Maintenance of seeded areas shall begin immediately after each area is seeded and shall continue until a uniform stand of grass is achieved and until acceptance of project by the Owner, but not for less than thirty days after initial seeding.
- B. Water as required to maintain adequate moisture in the upper 4" of soil, necessary to promote proper root growth. Contractor shall furnish water to the site for purposes of lawn watering unless the Contractor makes other arrangements with the Owner for water supply. If an irrigation system exists, it may be used for watering if it is fully functioning and has been accepted by the Owner, and use of the irrigation system for watering is permitted by Owner.
- Remove weeds, diseased and unsatisfactory lawn areas; do not bury into soil.

3.06 INSPECTION OF LAWN

- A. Inspection to determine acceptability of work will be made by the Owner's Representative upon the request by the Contractor.
- B. Failure to request inspection extends the maintenance period until such inspection for acceptance.
- C. After inspection, the Contractor will be notified by the Owner's Representative of acceptance of seeding. If there are any deficiencies, notification will be for completion requirements of the work. Work remaining to be done shall be subject to continued maintenance and reinspection before acceptance.
- D. Upon acceptance, the Owner shall be responsible for all maintenance of lawns.

3.07 GUARANTEE AND REPLACEMENT OF LAWN

- A. All lawn shall be guaranteed by this Contractor to achieve a uniform stand of grass to the satisfaction of the Owner. All lawn not in a vigorous, thriving condition shall be immediately replaced by this Contractor at no expense to the Owner.
- B. Should replacement fall due during a non-planting season the Contractor may request the Owner's permission to defer the planting until the proper season. Replacement lawn shall be of the same variety originally specified and shall be guaranteed as originally specified.

END OF SECTION

LANDSCAPE WORK SPECIFICATIONS

PART 1 GENERAL

- 1.01 DESCRIPTION OF WORK
- A. Provide all labor, materials, and equipment necessary to perform the landscape work, complete, as indicated on the drawings and as specified. Landscape development work includes, but is not limited to, plant materials, soils, soil amendments, and miscellaneous appurtenances.
- B. A complete list of plants, including a schedule of quantities, sizes and other requirements is shown on the drawings. In the event that discrepancies occur between the quantities of plants indicated in the plant list and as indicated on the plan, the plant quantities indicated on the plan shall govern.

1.02 QUALITY ASSURANCE

- Landscape work shall be performed by a firm(s) specializing in type of landscape work required for this project.
- 2. Ship landscape materials with certificates of inspection required by governing authorities. Comply with regulations applicable to landscape materials.
- B. Substitutions: If specified landscape material is not obtainable, submit proof of non-availability to Owner's Representative together with a proposal for use of substitute material.
- C. Analysis and Standards: Package standard products with manufacturer's certified analysis. For other materials, provide analysis by recognized laboratory made in accordance methods established by the Association of Official Agricultural Chemists, wherever applicable.
- D. Plant Materials: Provide plant materials of quantity, size, genus, species and variety shown and scheduled for landscape work and complying with recommendations and requirements of ANSI Z60.1 "American Standard for Nursery Stock". Provide healthy, vigorous stock, grown in recognized nursery in accordance with good horticultural practice and free of disease, insects, eggs, larvae and defects such as knots, sun-scald, injuries, abrasions or disfigurements. All plants shall be nursery grown for a minimum of two years under climatic conditions similar to those in the locality of the project. (Plants must be from a nursery in the same U.S.D.A. hardiness zone as the project.)
- E. Specimen Plants: Provide "specimen" plants with a special height, shape or character of growth. Specimen stock should be exceptionally fully developed, bushy and heavily anched plants that have been grown individually in the nursery. Tag specimen trees at the source of supply for inspection and approval by the Owner's Representative prior to digging. When specimen plants cannot be purchased locally, provide sufficient photographs of the proposed specimen plants for approval.
- F. <u>Labeling:</u> Label each tree with securely attached waterproof tag bearing legible designation of botanical and common name. Where formal arrangements or consecutive order of trees are shown, select stock for uniform caliper, height and spread and label with number to assure symmetry in
- G. <u>Inspection</u>: The Owner's Representative may inspect trees at place of growth before digging, for compliance with requirements for genus, species, variety, size and quality. The Owner's Representative retains the right to further inspect trees for size and condition of balls and root systems, insects, injuries and latent defects. The Owner's Representative also retains the right to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from project site.
- H. Plant Tagging: The Owner's Representative reserves the right to inspect and tag plant materials at acceptable nurseries for compliance with requirements for genus, species, variety, size and visual quality. The Owner's Representative retains the right to further inspect plant materials and to reject unsatisfactory or defective materials at any time
- during progress of work. Submit to the Owner's Representative the names and locations of nurseries proposed as sources of acceptable plant materials. 2. If requested by the Owner's Representative, the Contractor shall provide transportation for the Owner's Representative to all out-of-state nurseries and is responsible for all
- expenses related to such transportation. Air fare, lodging (if required), and meals shall be provided for the Owner's Representative and paid for by the Contractor for trips to all nurseries not accessible by car during a single day trip (there and back, not exceeding 12 hours). 3. Schedule with the Owner's Representative a time for viewing plant material at the nursery. Trips to nurseries shall be efficiently arranged to allow the Owner's
- epresentative to maximize his viewing time. 4. The Contractor is responsible for purchasing the tagged material and delivering it to the site for planting. These requirements do not remove the Contractor from his
- 1.03 SUBMITTALS
- A. Samples: When requested by the Owner's Representative, samples of all materials shall be submitted for approval. Contractor shall not deliver bulk materials to the project site itil samples and test results are approved.
- 1. Samples of the following shall be submitted: a. Compost/organic matter: Submit one cubic foot.
- Mulch: Submit one cubic foot.

guarantee requirements

- c. Tree Wrap: Submit a three foot length.
- B. Certification: Submit certificates of inspection as required by governmental authorities. Submit manufacturer's or vendor's certified analysis for soil amendments and fertilizer erials. Submit other data substantiating that materials comply with specified requirements.
- C. <u>Test Reports</u>: Test reports from an approved testing agency indicating compliance with the specifications shall be submitted for the following materials (and any other materials esignated by the Owner's Representative): Compost/Organic Matter
- 2. Planting soil for shrubs indicating pH, or required amendments to achieve specified pH.
- D. Planting Schedule: Submit proposed planting schedule indicating dates for each type of landscape work during normal seasons for such work in area of site. Correlate with specified maintenance periods to provide maintenance from date of substantial completion. Once accepted, revise dates only as approved in writing, after documentation of reasons for delays.
- E. <u>Record Drawings</u>: Provide plant material record drawings.
 - Legibly mark drawings to record actual construction 2. Identify field changes of dimension and detail and changes made by change order, including approved plant variety changes.

1.04 INSPECTION, TESTING, AND APPROVALS

- A. In-progress inspections shall be made by the Owner's Representative at regular intervals during execution of work on the project.
- B. Materials shall not be used in construction until test results have been reviewed by the Owner's Representative.
- C. All costs associated with testing shall be at Contractor's expense.
- D. All approvals shall be in writing.

1.05 DELIVERY, STORAGE AND HANDLING

- Delivery

 1. Deliver fresh materials in sealed containers. Protect from deterioration during delivery, and while stored at the site. Material which becomes caked or otherwise damaged,
- making it unsuitable for use, shall be rejected.
- Fertilizer shall be delivered to the site in bags or other sealed containers, each fully labeled, conforming to the applicable state fertilizer law, and bearing the name, trade name or trademark, and warranty of the manufacture
- 3. Protect plants during transportation by proper coverage with tarp or other means to reduce transpiration and damage. Closed vehicles shall be adequately ventilated to
- prevent overheating of the plants. Trees transported in full-leaf are to be adequately sprayed with an anti-desiccant to provide a film over trunks, branches, stems, twigs, and foliage.
- Plants shall be kept moist, fresh, and protected at all times. Such protection shall encompass the entire period during which the plants are in transit, being handled, or are in
- Notify the Owner's Representative at least three working days in advance of the anticipated delivery date of any plant material. A legible copy of the bill of lading, showing the quantities, kinds (genus, species, cultivar, variety), and sizes of materials included for each shipment shall be furnished to the Owner's Representative.
- B. <u>Storage</u>: Unless specific authorization is obtained from the Owner's Representative, plants shall not remain on the site of work longer than three days prior to being planted. Plants that are not planted immediately shall be protected as follows: a. If planting is to be delayed more than six (6) hours after delivery, set trees, shrubs and plants in shade or protected area. Keep roots moist by covering with mulch,
- burlap or other acceptable means of retaining moisture. . Plants shall not be allowed to dry out or freeze.
- 2. Both the duration and method of storage of plant materials shall be subject to the approval of the Owner's Representative.

As soon as possible after digging, all root balls shall be thoroughly soaked and the top of the plant syringed (in active season).

- Handling:

 1. Plants shall not be dug at the nursery or approved source until the Contractor is ready to transport them from their original locations to the site of work or acceptable storage
- Plants shall be handled by the ball and not by trunk or top growth. No plant shall be so bound with rope or wire at any time as to damage the bark, break branches, or destroy its natural shape. 4. Protect all plant areas and plants from damage. Treat or replace any plants that are injured. Perform no work in or over prepared plant areas or adjacent to planting without
- proper safeguards and protection.
- Do not remove container grown stock from containers until planting time. Prepare planting pits and install plant material in accordance with specification.

1.06 JOB CONDITIONS

- Examine subgrade, verify the elevations, observe the conditions under which work is to be performed. Do not proceed with the work until unsatisfactory conditions have
- 2. Proceed with and complete the landscape work as rapidly as portions of the site become available, working within the seasonal limitations for each kind of landscape work
- 3. When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, do not plant. 4. If underground obstructions are encountered in the excavation of plant pits, alternate locations may be selected by the Owner's Representative. Where locations cannot be
- changed, the obstruction shall be removed to a depth of not less than 3 feet below grade and no less than 6" below bottom of ball or roots when plant is properly set at the 5. Plant only during normal planting seasons for each type of landscape work required. Correlate planting with specified maintenance service periods to provide maintenance until occupancy by the Owner.

- <u>Utilities:</u>

 1. Determine location of underground utilities and perform work in a manner which will avoid possible damage.
- Hand excavate, as required, to minimize possibility of damage to underground utilities. Maintain all stakes and markers set by others until removal is mutually agreed upon by all parties concerned.
- 1. Plant trees after final grades are established and prior to planting of lawns. If planting of trees occurs after lawn work, promptly repair damage to lawns resulting from

1.07 PLANTING SEASON

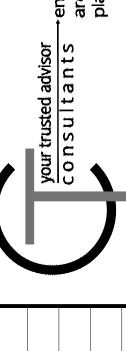
- A. Spring Planting: Spring planting may commence April 1 and as soon as weather conditions make it practicable to work both at the nursery and at the site.
- B. Fall Planting: Fall planting may commence September 1 and shall continue until such time as weather conditions make it impractical to work.
- Note: Regardless of the dates specified above, planting shall only be performed when weather and soil conditions are suitable for planting the material specified in accordance with locally accepted practice.
- Planting season may be extended only with the written permission of the Owner's Representative.

PART 2 PRODUCTS/MATERIALS

- 2.01 PLANTING SOIL FOR TREES, SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES
- A. For backfilling tree pits, planting soil mixture shall be prepared using the following rate of materials:
 - Four (4) parts existing soil on site, by volume One (1) part compost/organic matter, by volume
- B. Amend and prepare soil for plant beds per shrubs, perennials and ornamental grass planting detail.
- C. Mixture shall be well mixed and approved by the Owner's Representative before any plants are installed.

2.02 SOIL AMENDMENTS

- A. General: Unless specified otherwise below, the following soil amendments shall be used at rates recommended by topsoil testing.
- B. <u>Lime</u>: Natural dolomitic limestone containing not less than 85% of total carbonates with a minimum of 30% magnesium carbonates, ground so that not less than 90% passes a
- 0-mesh sieve and not less than 50% passes a 100-mesh sieve. Limestone shall be used to raise the pH of the planting soil when necessary. Aluminum Sulfate: Unadulterated free flowing and delivered in containers with the name of the material, name of the manufacturer, net weight and purity. Aluminum sulfate shall
- be used to lower the pH of the planting soil when necessary.
- D. Weed Control: Shall be a labeled herbicide appropriate for use with the plants grown. It can be applied in either granular or liquid form according to directions. Compost/Organic Matter: Leaves composted 18-24 months in high temperatures, creating rich, mellow dark leaf humus. Leaf humus to be shredded and screened, and shall be
- ee of weed seeds and toxic materials. Leaf humus (or other approved organic matter) shall conform to the following: 100% shall pass through a 1" screen.
- Pathogen free; time and temperature tests minimum 55° Celsius for 3 days Organic content shall be between 35-75%; each source shall not vary more than 5%. Inert contamination shall be less than 1% by weight.
- Material shall be cured for at least 90 days
- Soluble salts shall be between 1-5 mmhos. pH shall be between 6 and 8.
- Note: Compost/organic matter other than leaf humus is acceptable providing it conforms to these specifications.
- Commercial Fertilizers: Complete fertilizer of neutral character with some elements derived from organic sources and containing the following percentages of available plant
- I. For trees, shrubs, groundcovers, and perennials, provide controlled release fertilizer with not less than 5% total nitrogen, 10% available phosphoric acid and 5% soluble potash. Fertilizer shall be added in proportions determined by soil analysis and per manufacturer's recommendation



	RILEY BOULEVARD AND 6th	ISSUED FOR:		NO	REVISION	DA
	STREET	ISSUE DATE:	4/03/2024			
PROJE	WARREN COUNTY OHIO	SCALE:	1" = 20'			
CT NO.		DESIGNED BY:	PJK			
	LANDSCAPE PLAN	DRAWN BY:	BEK			
		CHECKED BY:	PJK			

241305 DISCIPLINE **SURVEY**

LANDSCAPE EXG@ND

2.03 PLANT MATERIALS

- Provide plants of size, genus, species and variety shown and scheduled for landscape work and complying with latest recommendations and requirements of ANSI Z60.1 "American Standard for Nursery Stock". All plants shall be nursery grown.
- 2. All plants shall be hardy under climatic conditions and nursery grown in the same hardiness zone, or colder, as the project.
- 3. Plants shall have outstanding form; symmetrical, heavily branched with an even branch distribution, densely foliated and/or budded, and a strong, straight, distinct leader where this is characteristic of species. Plants shall possess a normal balance between height and spread. The Owner's Representative will be the final arbiter of acceptability of plant form.
- 4. Provide plants with a vigorous, well-developed fibrous root system.
- Plants shall be healthy and vigorous, free of disease, insect pests and their eggs, larvae, borers, and all other forms of infestation.
- 6. Plants shall be free of physical damage such as scrapes, broken or split branches, scars, bark abrasions, sun scalds, frost cracks, fresh limb cuts, disfiguring knots, or other 7. Plants shall meet the sizes indicated in the Plant List. Plants larger than specified may be used only if accepted by the Owner's Representative, and without additional cost
- 8. Balled and burlapped plants shall be dug with firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock." Cracked or mushroomed balls are not acceptable. Plastic burlap and/or twine is not acceptable.
- B. <u>Deciduous Trees</u>: Provide trees of height and caliper scheduled or shown and with branching configuration recommended by ANSI Z60.1 for type and species required. Provide single stem trees except where special forms are shown or listed. Single stem trees shall have a single, straight central leader.
- Provide balled and burlapped (B&B) deciduous trees. 2. Canopy trees shall be branched up 5½ to 6'

2.04 MISCELLANEOUS LANDSCAPE MATERIALS

- A. Shredded Bark Mulch: Shall be a finely shredded hardwood tree bark of uniform texture and size and shall be a slow decomposing, all organic material. Shredded bark shall be aged at least one year and dark brown in color. It shall not contain an excessive amount of acid that may adversely affect plant growth. Mulch shall be free of weeds and weed
- B. Anti-Desiccant: Emulsion type, film forming agent designed to permit transpiration but retard excessive loss of moisture from plants. Deliver in manufacturer's fully identifiable containers and mix in accordance with manufacturer's instructions.
- C. <u>Herbicide</u>: Shall be a labeled herbicide for the plants grown. It can be applied in either granular or liquid form according to directions.

- Guying Stakes: Shall be sound uniform hardwood stakes 2" x 2" x 36", or as shown on detailed drawings.
- Bracing Stakes: Shall be sound uniform hardwood stakes 2" x 2" x 8' to 10', or as shown on detailed drawings. <u>Trunk Protector:</u> For covering staking wire shall be Arbor Tie or equal.
- <u>Twine:</u> Shall be a jute twine not less than two ply (no synthetic twines).
- Cable/Wire: Shall be 12 or 14 gauge galvanized steel solid strand wire depending on size of tree. See planting details.
- Turnbuckles: Galvanized or zinc coated, having a 3" minimum lengthwise opening fitted with screw eyes, and shall have a tensile strength equal to or greater than the
- E. Water: Shall be suitable for irrigation and shall be free from ingredients harmful to plant life. Contractor shall furnish water to site for purposes of plant watering unless the Contractor makes other arrangements with the Owner for water supply.

PART 3 EXECUTION

3.01 GENERAL

- A. Examine proposed planting areas and conditions of installation. Do not start planting work until unsatisfactory conditions are corrected.
- B. It shall be the Landscape Contractor's responsibility to coordinate work with other Contractors on the project.
- C. The Contractor shall take all proper precautions so as not to disturb or damage subsurface improvements (see Paragraph 1.06 of this section).
- D. Existing soil and organic matter shall be tested at an approved testing lab by the Contractor. When testing indicates a deficiency, soil amendments and fertilizer shall be applied at rates indicated by testing as specified herein, for optimal growth of specified plantings. See Paragraph 2.02 of these specifications for specific requirements for Planting Soil

3.02 EXCAVATION FOR TREES

- A. Excavate tree pits with vertical sides, taking care not to damage any subsurface improvements or utilities. Loosen hard subsoil on bottom and sides of excavation.
- B. For tree locations, refer to the drawings and details.
- C. Use soil removed from pit for preparation of planting soil backfill.

3.03 PLANTING INSTALLATION

A. Setting of Plants:

- 1. Set balled and burlapped (B&B) plants in pits as indicated on details. Each plant shall be set in the center of an individual pit and set plumb and straight. All plants shall be properly faced so as to give the best effect.
- No filling is permitted around trunk or stems. Cut off all broken or frayed roots. No planting mixture in a frozen or muddy condition is permitted for backfilling.
- Trees and plants with broken root balls will not be accepted and will be replaced at Contractor's expense. 4. Tree trunks and plants shall be installed plumb. Landscape contractor is responsible for adjustment of trees and plants if not centered in pit.

1. ALL TWINE SHALL BE REMOVED FROM THE BASE OF ALL PLANTS. Cut wire baskets from ball after setting in pit. Remove burlap from top and sides of ball and retain

C. Backfill:

- 1. When the plant has been properly set, the pit shall be backfilled with specified planting soil. It shall be prepared by thoroughly mixing in the proper proportions prior to
- Incorporate fertilizer into backfill mix at the rate recommended in the soil analysis and per manufacturer's recommendations.
- 3. The pit shall be loosely filled until full. Backfill shall be settled by watering and refilled as necessary. Dish top of backfill to allow for mulching. 4. No filling is permitted around trunks or stems. No planting mixture in a frozen or muddy condition is permitted for backfilling.

1. Once backfilled, all plants shall be thoroughly soaked to the depth of the pit excavation.

a. Subsequent watering shall be performed by the Landscape Contractor until final acceptance. The Contractor shall furnish water to the site, unless the Contractor makes arrangements with the Owner for water supply. The irrigation system may be used for watering if it is fully functioning and has been accepted by the Owner, and use of the irrigation system for watering is permitted by Owner.

3.04 PLANT FINISHING

- A. <u>Pruning</u>: Pruning of deciduous stock shall be limited to removal of dead and broken limbs and conflicting branches, and to enhance the plant's natural character, if necessary. Excessively pruned or misformed stock resulting from improper pruning shall be removed and replaced at the Contractor's expense.
- B. <u>Weed Control</u>: Shall be done by applying pre-emergent herbicide at the rate specified by manufacturer.
- C. Mulching: Mulch all trees to the depths specified.
- D. <u>Watering</u>: Water all planted material thoroughly, immediately after planting.
- E. <u>Applying anti-desiccant</u>: Use a power spray to provide an adequate film over trunks, branches, stems, twigs and foliage.
- If deciduous trees are moved in full- leaf, spray with anti-desiccant at nursery before moving and again in 2 weeks after planting.
- Guying and Staking: Trees shall be staked immediately after planting if directed by Engineer. On B&B stock, stakes shall not be driven through ball. Stakes shall be firmly
- 1. It shall be the Contractor's responsibility to keep guying wires tightened while contract and guarantee is in force.

CLEAN-UP AND PROTECTION

- A. During landscape preparation, installation and maintenance, keep pavements debris free and work area in orderly condition. Remove all tags, labels, nursery stakes and ties from plants. Remove all excess soil, debris and surplus material attributed to landscape operations, and leave premises in neat, clean condition.
- B. Protect landscape work and materials from damage due to landscape operations, operations by other contractors and trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed.

3.06 FINAL INSPECTION OF LANDSCAPE WORK

- A. When landscape work is completed, the Owner's Representative will, upon request, make an inspection to determine acceptability.
- B. Where inspected landscape work does not comply with requirements, replace rejected work and continue specified maintenance until reinspected by Owner's Representative and found to be acceptable. Remove rejected plants and materials promptly from project site.
- C. NOTE: Contractor is responsible for watering plants as required to maintain optimum plant health.

3.07 MAINTENANCE OF PLANTS DURING THE ONE YEAR GUARANTEE PERIOD

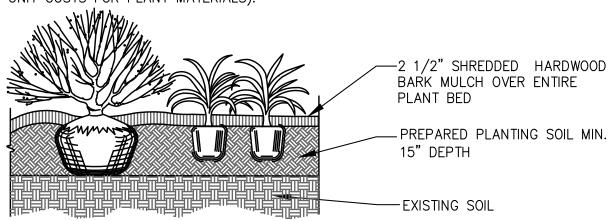
- A. The Contractor shall be required to maintain all plantings for one year (beginning at the date of acceptance of all plantings). This one-year period shall coincide with the
- B. During the guarantee period, the contractor shall be responsible for watering, fertilizing, weeding, cultivating, pruning, mulching, spraying, trimming, protecting from wind, staking (or restaking), resetting, replacing or other procedures necessary to sustain all the plant materials in a healthy and thriving condition. Additional waterings of plant materials shall be provided by the Landscape Contractor as required to maintain optimum plant health.
- C. The Contractor, on a monthly basis during the guarantee period, shall submit to the Owner's Representative a written summary of all inspection and maintenance activities.

3.08 GUARANTEE AND REPLACEMENT OF PLANT MATERIAL

- A. All plants shall be guaranteed by this Contractor for a period of one (1) year following acceptance. The Contractor shall make a minimum monthly check of the project during this one-year guarantee period and all dead plants or plants not in a vigorous, thriving condition shall be immediately replaced by this Contractor at no
- B. Should replacement fall due during a non-planting season the Contractor may request the Owner's permission to defer the planting until the proper season. However, the contractor will be required to immediately remove and dispose of the dead plants, including all roots. The hole shall be backfilled properly with topsoil to finish grade until proper
- C. Plants used for replacements shall be of the same kind and size originally specified, and they shall be planted, mulched and guaranteed as originally specified. Only one replacement of each plant will be required except for losses of replacements due to failure to comply with specified requirements.

END OF SECTION

- SET1-ALL PLANTS SO THAT WHEN SETTLED THEY WILL BEAR THE SAME RELATION TO THE FINISH GRADE AS THEY DID AT THE NURSERY.
- 2. NOTIFY LANDSCAPE ARCHITECT BEFORE PROCEEDING IF RUBBLE OR OTHER UNSUITABLE SOIL IS ENCOUNTERED DURING PLANTING OPERATIONS.
- 3. PREPARE PLANTING BEDS BY SPREADING A 4" LAYER OF ORGANIC MATTER OVER PLANTING AREA AND TILLING IT INTO THE EXISTING SOIL MATERIAL TO A MINIMUM DEPTH OF 15". (COST OF BED PREPARATION TO BE INCLUDED IN UNIT COSTS FOR PLANT MATERIALS).

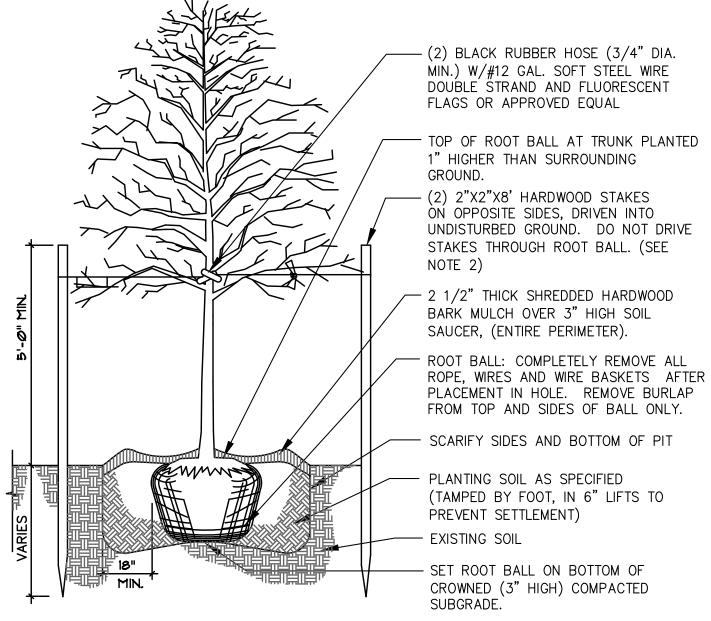


SHRUBS, PERENNIALS AND ORNAMENTAL GRASS PLANTING DETAIL

SET ALL TREES SO THAT WHEN SETTLED THEY WILL BE SLIGHTLY ABOVE (1") THE FINISHED GRADE.

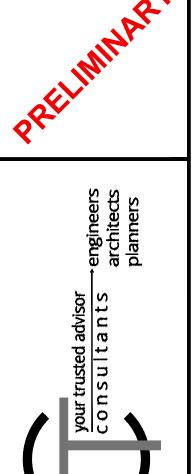
DECIDUOUS TREE STAKING SHALL BE DONE ONLY IF NECESSARY TO STABILIZE TREES AS DETERMINED BY LANDSCAPE ARCHITECT. THERE SHALL BE NO ADDITIONAL COST TO PROJECT FOR STAKING IF REQUIRED.

NOTIFY LANDSCAPE ARCHITECT BEFORE PROCEEDING IF RUBBLE OR OTHER UNSUITABLE SOIL IS ENCOUNTERED DURING PLANTING OPERATIONS.



DECIDUOUS TREE PLANTING DETAIL

NO SCALE



ARD BOULI CIT PROJECT NO. 241305 DISCIPLINE **SURVEY**

> LANDSCAPE EX60ND