

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract apply to this Section.

1.2 RELATED SECTIONS

- A. Coordinate work specified in other parts of the project manual, including but not limited to the following:
 - 1. Section 32 8100 Irrigation

1.3 DESCRIPTION

- A. This section describes planting trees, shrubs, and ground cover, including mulching, pruning, guying, and staking.

1.4 QUALITY ASSURANCE

- A. Contractor: Provide one person and contact information who shall:
 - 1. Direct work performed under this section.
 - 2. Be familiar with the materials and best methods for installation.
 - 3. Be present at all times during execution of work in this section.
- B. Government Inspection: Plants and planting material shall meet or exceed the specifications of federal, state and county laws requiring inspection for plant disease and control.
- C. Industry Standards:
 - 1. Sizes and Conditions: Quality definitions, grading tolerances and caliper to height ratios shall be no less than minimums specified in American Standards for Nursery Stock, published by American Association of Nurserymen, Inc., ANSI Z60. Current edition.
 - 2. Botanical Names: American Joint Committee on Horticultural Nomenclature, "Standard Plant Names" or "Hortus Third."
- D. Owner's Representative: The Owner's Representative may inspect plants and planting materials at a growing or holding site in addition to the work area. Approval of material at a growing or holding site is a qualified endorsement of general quality only, and does not certify compliance with the specifications in all cases. Such approval does not preclude the right of rejection at the work area.
- E. The Contractor shall layout sample planting configurations to be located by Owner's Representative to demonstrate the Contractor's understanding of the plan. The Owner's Representative shall approve the layouts prior to any materials being installed.
- F. Nursery: Unless otherwise approved by the Owner's Representative, obtain all plants of same species from the same nursery.
- G. Qualifications: Submit qualifications for installation firm and installation supervisor.

1.5 SUBMITTALS

- A. Topsoil: Submit one half cubic foot sample of topsoil and one half cubic foot of organic compost/mulches, including documentation of native parent materials and certification of

composting periods to Nick Penovich at Soil Science of Port Orchard (360) 271-6729. Soil Science will have topsoil tested for 'plant available form' micronutrients and recommend nutrient amendments. Providing topsoil samples from multiple sources (such as Vern's and Morrison Sand & Gravel) is recommended as one may be closer to the target nutrient levels and require less amendments.

- B. Compost: Submit a copy of the Solid Waste Handling Permit issued to the supplier by the jurisdictional Health Department. Submit one half cubic foot sample of coarse compost for subgrade preparation and medium compost for mulch and fine compost as a soil component.
- C. Material Test Reports: For standardized ASTM D 5268 topsoil, existing native surface topsoil, and imported or manufactured topsoil including:
 - 1. All soil types.
 - 2. Compost- all types.
 - 3. Soil amendments, fertilizers and other products described herein.
- D. Certify in writing, within ten (10) days of Notice to Proceed, confirmed orders for plants and provide the quantity, location, telephone number, and address of the grower who has agreed to provide any plant material.
- E. Product Certificates: For each type of manufactured product, from manufacturer, and complying with the following:
 - 1. Manufacturer's certified analysis of standard products.
 - 2. Analysis of other materials by a recognized laboratory made according to methods established by the Association of Official Analytical Chemists, where applicable.
- F. Submit topsoil load tickets for every delivery to the site of the approved product.
- G. Report soil amendments, etc. to be added to soils to satisfy requirements.

1.6 SOIL TEST REQUIREMENTS

- A. Testing methods and written recommendations shall comply with USDA's Handbook No. 60.
- B. Testing shall be performed on the planting soil mixes and components not more than 3 months prior to installation.
- C. A minimum of 3 representative samples shall be taken from varied locations for each soil to be used or amended for planting purposes. In addition to manufactured soils, on-site soils shall be sampled as follows:
 - 1. Soil testing for native topsoil stockpile, obtain 3 samples from 3 separate, well distanced locations within the native topsoil stockpile.
 - 2. Planting in existing, undisturbed soil where existing grade matches final grade, provide 3 topsoil samples from 3 separate, well distanced locations to a full 9-inch depth.
- D. Planting soil analysis: For each soil mix, furnish soil analysis on the final mix of components or on-site soils, and a written report by a qualified soil-testing laboratory stating the following:
 - 1. pH
 - 2. C:N Ratio
 - 3. Percentage of organic matter by weight LOI (loss on ignition), ASTM D 2974 Method D
 - 4. Gradation of sand, silt, and clay content per USDA soil texture classification
 - 5. Cation exchange capacity
 - 6. Maximum exchangeable sodium

7. Maximum electrical conductivity
 8. Sodium absorption ration
 9. Deleterious material
 10. Mineral and plant- nutrient content of soil
- E. Soil nutrient analysis: Report suitability of tested soil for plant growth of each planting soil mix:
1. Soil nutrient analysis to include levels of the following nutrients: Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Sulfur, Boron, Chlorine, Cobalt, Copper, Iron, Manganese, Molybdenum, and Zinc.
 2. Based upon the test results, state recommendations for soil treatments and soil amendments to be incorporated. State recommendations in weight per 1000 sq. ft., or volume per cu. yd. for nitrogen, phosphorus, and potash nutrients, and soil amendments to be added to produce satisfactory planting soil suitable for healthy, viable plants.
 3. Report presence of problem salts, minerals, or heavy metals, including aluminum, arsenic, barium, cadmium, chromium, cobalt, lead, lithium, and vanadium. If such problem materials are present, provide additional recommendations for corrective actions.
 4. Analysis of heavy metals and other toxics per WAC 173-340 MTCA and per requirements listed herein. Test Method shall be EPA Test Method and Practical Quantitation Level. Material shall also meet criteria listed in WAC 173-350-220, Table B- Other Testing Parameters.
- F. Compost Analysis: tests to be performed not more than 3 months before planting. Provide test results for the following:
1. Percentage of organic matter by weight LOI (loss on ignition), ASTM D 2974 Method D
 2. Moisture content
 3. pH
 4. C:N Ratio
 5. Soluble Salt Concentration
 6. Ammonium Nitrogen
 7. Nitrate Nitrogen
 8. Particle size Sieve analysis per USDA soil texture classification
 9. Stability – Carbon Dioxide Evolution Rate
 10. Maturity
 11. Seed Emergence and Seedling Vigor
 12. Bulk Density
 13. Provide verification of manufactured compost satisfying definition of “composted materials” per WAC CH 173-350 Section 220, and is not derived from Type 4 feedstocks.
 14. Nutrient content of N-P-K
 15. Provide verification of manufactured compost meeting the US Composting Council’s “Seal of Testing Assurance” program.
 16. Analysis of heavy metals and other toxics per WAC 173-340 MTCA.

1.7 PREPARATION FOR DELIVERY

- A. Bare root, plug, container and balled and burlapped plants shall conform to ANSI Z60.1-1996.

1.8 DELIVERY

- A. Deliver fertilizer/nutrient amendments to the work area in original unopened containers bearing manufacturer’s guaranteed chemical analysis, name, trade name, and trademark.

- B. Notify the Owner's Representative of delivery schedule 72 hours in advance to allow inspection upon arrival at the work area.
- C. Remove unacceptable plant material from the work area immediately.
- D. Do not deliver more plant materials than can be planted in one week.
- E. Protect plants during delivery to prevent damage to root ball or desiccation of leaves. Protect all plants from drying out.
- F. Spray deciduous trees in leaf with anti-desiccant during hot weather (greater than 80°F) with winds exceeding 10 mph, or other conditions that could produce desiccation. Anti-desiccant shall be Wiltproof, or equal, applied to tops and bottoms of leaves per manufacturer's recommendations.

1.9 STORAGE

- A. Heel-in bare-root or balled and burlapped plants immediately upon delivery if not planted within 4 hours.
- B. Store plants in shade and protect from harmful weather until planted.
- C. Water, maintain, and protect stored material from drying or other injury or damage.
- D. Store plants in upright position and allow sufficient ventilation.

1.10 HANDLING

- A. Do not pick up containerized or balled plants by stems or trunks.
- B. Do not drop plants. Dropped plants in excess of 2 feet shall be considered damaged and removed from site.

1.11 SITE CONDITIONS

- A. Execute all work in an orderly and careful manner with due consideration for surrounding areas, plantings, or structures which are to remain.
- B. Protect improvements from damage, soiling, or discoloration.
- C. Examine finish grades, verify elevations, observe conditions under which work is to be performed and notify Owner's Representative of unsatisfactory conditions.
- D. Planting Conditions: Planting is not permitted under the following conditions, unless otherwise approved:
 - 1. Cold Weather: Less than 32°F.
 - 2. Hot Weather: Greater than 80°F.
 - 3. Wet Weather: Saturated soil.
 - 4. Windy Weather: Wind velocity greater than 30 mph.
- E. Prepare soil only when topsoil is not saturated, muddy, or frozen.
- F. Irrigation system shall be operational, inspected, and approved prior to any planting.

1.12 PROTECTION

- A. Know requirements for location and protection of underground utilities.

- B. Barricade or cover excavations as necessary to protect pedestrians, workers, equipment, and adjacent property.

1.13 ONE-YEAR WARRANTY PERIOD

- A. One-year warranty period begins at date of certificate of final acceptance. The Contractor will not be held responsible for vandalism, theft, atypical weather conditions or hidden peculiarities of work area during this period.
- B. Plant materials must be in healthy condition at end of the one-year warranty period.
- C. Remove dead and rejected material within five days of being so directed. Replace as soon as possible.
- D. Repair, at no added cost to the Owner, any damage to other plants or other property caused by the Contractor during replacement of plant materials during one-year warranty period.
- E. The guarantee of replacement plants shall extend for an additional 1-year period from the date of their acceptance.
 - 1. Match: Replacements shall closely match adjacent specimens of the same species. Replacements are subject to the requirements of this section.

1.14 PLANT SEASON

- A. Perform this work during the period September 1 through May 31 for irrigated areas and September 1 and March 1 for non-irrigated areas.

PART 2 - PRODUCTS

2.1 GENERAL PLANT REQUIREMENTS

- A. Quality and Size:
 - 1. Provide healthy nursery stock, well branched and rooted, full foliated when in leaf, healthy, sound, vigorous, and free from insects, diseases, weeds, weed roots, injuries, and defects such as knots, sun-scald, windburn, abrasions, or disfigurement, equal to or exceeding measurements specified in plant list.
 - 2. Provide trees that are well shaped and properly pruned with normal branching configurations. Trees of the same species and size shall be headed to the same height unless noted otherwise.
 - 3. Sizes and methods of handling shall be according to the American Standard for Nursery Stock recommended by the American Association of Nurseries (AAN).
- B. Root Protection:
 - 1. Shrubs and trees over 1 1/2-inch caliper shall be balled and burlapped or grown in the container in which they are delivered for a minimum of nine months.
 - 2. Small, container-grown plants shall be furnished in removable containers or integral peat pots, well rooted to ensure healthy growth.
 - 3. Container-grown plants shall be in containers from six months to two years prior to delivery, with roots filling container but not root bound.
 - 4. Greenhouse plants shall be acclimated outdoors for 30 days prior to delivery.
- C. Plant Materials

1. Provide plant material that is fresh, healthy in appearance, and free from damage, disfiguration, pests, and disease. Provide material commonly accepted in the trade as “medium” or larger. Use the best accepted horticultural practices for the species and variety.
2. Plants from nursery stock originating within a 50 mile radius of the project site. Obtain approval of the source, quality, and propagule of planting stock before digging or planting begins.
3. Keep plants cool and moist at all times while transporting or handling. Plant within eight hours of removal from nursery or storage areas. Keep plants in short-term storage no longer than two days. Beyond two days, place transplants in appropriate containers and transfer to a nursery for longer-term storage.
4. Handle and transport planting stock by any method that does no damage. Dry root systems or damaged critical plant parts are grounds for rejection of planting stock.
5. Trees shall be well-branched, with straight single leaders, tops, and trunks; no cross branches, dead or broken leaders or major branches; no fresh cuts over 1-inch diameter; and not “topped” or sheared. Grafted trees shall be base grafted or base budded, unless indicated otherwise.

2.2 PLANTING MATERIALS

A. Topsoil: Manufactured topsoil from off-site sources for planting beds and lawn areas. Topsoil to be free of weeds, weed seeds, and any deleterious material.

1. Maximum particle size: 5/8”, with 97% to 100% passing the 1/2” screen.
2. Soil components shall consist of the following:
 - a. 30 -40 % by volume Sandy Loam per USDA textural classification of soil:

Item	Size in mm	Percent by Weight/Text
Sand	0.05 - 2.0 mm	45 - 85% AASHTO T88
Silt	0.002 – 0.05 mm	0 - 50% AASHTO T88
Clay	Less than 0.002 mm	10 - 20% AASHTO T88
Organic Matter -		1.5 - 10% AASHTO T194

- b. 30 -40 % by volume Sand.
 - c. 30 -40 % by volume Compost (see above section).
3. Adjust the above amounts to achieve the following:
 - a. Organic content for planting: 4-8% organic content by dry weight per LOI.
 - b. Organic content for turf areas: Contractor's option to provide a minimum of 3-5% organic content by dry weight per LOI for turf areas.
 - c. Fines are defined by #200 sieve: not more than 15%. Provide laboratory testing per this section. (AASHTO T88).

4. Topsoil Fertility: All topsoil shall be sufficiently fertile to sustain normal healthy plant growth and is subject to testing prior to approval. All topsoil must fall within the following criteria:

	Min	Max
PH	5.5	7.5
Nitrate (#/AC)	1.0	300
Phosphorus (UG/G or ppm)	50	150
Potassium (UG/G or ppm)	50	150
Sodium (MEG/100G)	N.A.	<1.0

Sodium Absorption Rate	N.A.	<2.0
Sulfate AS S. (UG/G or ppm)	10	500
Conductivity (mmHos/CM)	N.A.	<1.0
Lime (Qualitative)	None	Medium
C:N Ratio	N.A.	<20:1

5. Soil amendments and fertilizers per soil test: Nutrient amendment requirements will be recommended by Soil Science of Port Orchard after testing for 'plant available form' nutrients has been executed. Fertilizers/nutrient amendments required to allow the soil to meet these requirements shall be completely incorporated into all topsoil fill by rototilling or other approved means. Prior to placement, the Contractor shall uniformly incorporate all nutrients and micronutrients identified in the topsoil analysis as being deficient from the tested sample at a rate and ratio that will correct said deficiency in accordance with the soils test report. Add or deduct types and amounts per soil test results for plant growth requirements. Provide final amounts and types as part of submittals for approval.
- B. Excavated Soil: Excavated soil is not suitable for use on this project as a planting medium.
 - C. On-site Topsoil: Contractor to use and amend existing surface soil to produce planting soil that meet the requirements of Topsoil as described above.
 1. Add amendments materials per soil test recommendations.
 - D. Compost: Compost will be used for subgrade preparation (coarse) as a component of the topsoil mix (fine), and as part of topdressing mulch. Compost shall meet the following physical and chemical criteria:
 1. The material shall be visually free of manufactured inerts such as glass, metal, and plastic and shall be less than 1.0-percent by weight as determined by the U.S. Composting Council TMECC 03.08-A "Classification of Inerts by Sieve Size," and visually free of identifiable grass or leaf fragments.
 2. No fresh sawdust or other fresh wood by-products shall be added to extend the volume after the composting process.
 3. Compost shall be prepared by the controlled decomposition of organic materials. Acceptable feedstocks include, but are not limited to, yard debris, wood waste, land-clearing debris, brush, branches, manure, food residuals, and forest by-products. Type 4 feedstocks are not acceptable.
 4. The product will have a uniform, dark, soil-like appearance and an earthy loam-like odor. No Ammonia or putrid smells shall be present.
 5. Compost for the approved rates listed above must meet the definition for "composted materials" in WAC Chapter 173-350 Section 220 or topsoil manufactured from this compost for the approved rates listed above must meet the definition for "composted materials" in WAC Chapter 173-350 Section 220.
 6. Compost must meet the standards of the U.S. Composting Council's "Seal of Testing Assurance" (STA) program.
 7. No Class B biosolids shall be included.
 8. Compost shall comply with all applicable health standards and be obtained from a compost facility that holds a solid-waste handling permit from the health department with jurisdiction.
 9. Compost must originate a minimum of 65-percent by volume from recycled plant waste as defined in WAC 173-350 as "Type 1 Feedstocks." A maximum of 35-percent by volume of "Type 2 Feedstocks," source-separated food waste, and/or biosolids may be substituted for recycled plant waste. The manufacturer shall provide a list of feedstock sources by percentage in the final compost product.

- a. Yard waste shall be from a permitted composting facility such as Cedar Grove or approved equal.
 - b. Material derived from aerobic decomposition of recycled plant waste fully composted for a minimum of 6 months between 131 F and 165 F; materials shall have a moisture content such that no visible free water or dust is produced when added after the composting process has begun.
10. The Owner’s Representative may also evaluate compost for maturity using U.S. Composting Council TMECC 08.08-E “Solvita Maturity Index.” Fine compost shall score a number 6 or above on the Solvita Compost Maturity test. Course compost shall score a number 5 or above on the Solvita Compost Maturity test.
11. The following are required testing data for physical properties:

Product Parameters	Unit of Measure	Specification Range
Sieve Analysis - Coarse	-	100% passing thru a 3” sieve 90-100% passing thru a 1” sieve 70-100% passing thru a 3/4” sieve 40-60% passing thru a 1/4” sieve 6” Max, particle size
Sieve Analysis - Medium	-	As defined by WSDOT 9-14.4(8)
Sieve Analysis - Fine	-	100% passing thru a 5/8” sieve
Organic Matter	% of dry wt. (LOI)	40 - 60
pH	pH Units	5.5 - 7.5
C:N Ration	C:N Ratio	12:1 – 35:1
Soluble Salt Concentration	dS/m (mmhos/cm)	< 4.0
Moisture Content	%, wet wt. basis	40 - 60
Ammonium Nitrogen	ppm	< 500
Nitrate Nitrogen	ppm	report amount
Stability	Mg CO ₂ -C per g OM per day	< 8
Maturity	%, relative to + control	Minimum 80%
Select Pathogen Salmonella	MPN per 4 g of total solids	<3
Sharps	#	0, WAC 173-340-220

12. Refer to WAC 173-350 – 220 Table A and the MTCA WAC 173-340-900 Table 749-2 for required testing data for compost for heavy metals and other toxics.
- E. Mulch: Topdressing for landscape beds shall be composted granular or shredded bark, Pacific Garden Mulch, Cedar Grove compost or equal meeting the requirements as listed above for Medium Compost. The bark shall be free of leaves, twigs, and other debris to the satisfaction of the Owner’s Representative.
 - F. Water: Suitable for irrigation, free from ingredients harmful to plant life. Assume water is available on site and will be paid for by the owner.
 - G. Fertilizers/Nutrient Amendments: Controlled release organic and/or inorganic fertilizer or granular form as recommended by Soil Science of Port Orchard. Complete fertilizer of neutral character, with elements derived from organic sources.
 - H. Biofertility treatments: Provide a ‘drench run’ (liquid application) of each plant within 1-week of planting using Soil Science of Port Orchard’s liquid organic solution to activate and add to the living microorganisms, bacteria, fungi, nematodes and protozoa that are necessary for soil biology.

2.3 TREE SUPPORT

- A. Wood stakes shall be 8 feet long, 3 inch outside diameter Douglas fir tree stakes, construction grade.
- B. Tree ties shall be Chainlock, or equal corded rubber.

2.4 SELECTIVE HERBICIDE

- A. Surface-applied herbicide. ONLY as approved by the Owner's Representative.

PART 3 - EXECUTION

3.1 PREPARATION

- A. It is the Contractor's responsibility to coordinate site preparation work for seeding and planting to control weeds and avoid conflicts between the seeding and planting work.
- B. Plant Locations: Individual plant locations and outlines of shrub and groundcover areas to be planted shall be staked by contractor as indicated on construction drawings in ample time to allow inspection and approval by Owner's Representative.
- C. Protect structures, utilities, sidewalks, pavements, and other facilities, and lawns and existing exterior plants from damage caused by planting operations.
- D. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.2 EXCAVATION

- A. Excavate pits for trees, shrubs, and groundcovers as indicated in details and consistent with accepted horticultural practices.
- B. Location: Perform soil preparation in all areas to receive plant materials.
- C. Loosen subgrade of entire planting beds to a minimum depth of 8 inches by discing or ripping to enable a rototiller to fully incorporate required compost. Do not scarify within the drip line of existing trees. Remove stones and other debris larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off property at the installer's expense.
- D. Apply 3 inches of coarse compost onto the ripped subgrade.
- E. Till the coarse compost into the sub-grade to a depth of 8 inches. Tilling the compost into the soil shall be accomplished by tilling it twice, the second time perpendicular to the first. When preparing the subgrade near existing vegetation protect the existing vegetation by limiting preparation activity to no closer than 10 feet from existing trees and 6' from existing large shrubs. Exceptions: For slopes 2.5:1 or steeper, do not disturb subgrade with tilling. Prepare slopes by tracking to create ridges parallel to the contours of the slope as required by WSDOT Standard Specifications Section 8-01.3(2)A. Apply 3 inches of coarse compost as the compost blanket on top per 3.6B.
- F. Spread topsoil mix to a depth of 6, 12 or 18 inches in landscaped areas where woody shrubs and trees will be planted as defined in the plans, but not less than required to meet finish grades after natural settlement. For trees located in beds with less than 18" topsoil indicated,

provide a topsoil depth of 18" to a radius of 3 feet out from the trunk. Do not spread if topsoil or subgrade is frozen, muddy, or excessively wet.

a. Spread approximately one-half the thickness of planting soil mix over loosened subgrade. Mix thoroughly into top 12 inches of subgrade. Spread remainder of topsoil mix.

C. Soil Amendments:

1. Nutrients: Thoroughly spread topsoil, apply soil amendments and fertilizer as recommended per soil analysis results, on surface, and thoroughly blend the topsoil mix.

a. Delay mixing fertilizer with planting soil if planting will not proceed within a few days.
b. Mix lime, if necessary per testing, with dry soil before mixing fertilizer.

2. Biofertility: This should occur after finish grading and planting and prior to mulching of the landscape beds. Each plant is drenched with the liquid organics provided by Soil Science of Port Orchard. Mulch within 48 hours after biofertility treatment.

D. Finish Grading: Grade planting beds to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

E. Restore planting beds if eroded or otherwise disturbed after finish grading and before planting.

3.3 PLANTING TREES AND SHRUBS

A. Field place trees and shrubs in locations shown on the drawings. Placement must meet approval of the Owner's Representative prior to backfilling. The actual location of individual plants in the field shall be based on local hydrogeomorphic conditions associated with final grades.

B. Excavate pit two and one half times the width and 8 inches deeper than rootball or container.

C. Place 8-inch minimum firmly compacted layer of prepared planting soil under root system of trees and 4-inch minimum firmly compacted layer of prepared planting soil under root system of shrubs.

D. Plant upright and plumb.

E. Tamp sufficient prepared soil mix under plants to bring top of root ball to the level of finished soil subsurface.

F. When setting balled plants, loosen and remove twine or wire binding and burlap from top one third of root balls after setting in pit. Do not pull wrapping from under ball. Do not plant if ball is cracked or broken. Remove all synthetic twine. Cut wire basket in 4 places and fold down 8 inches. Plants shall have the same relationship to finished grade as in the nursery.

G. When setting container grown plants, carefully remove from container without injury or damage. Superficially cut edge roots on three sides with knife. Do not plant if root ball breaks or loosens.

H. When pit is full, thoroughly water-in each plant.

I. Place and compact prepared soil mix carefully to avoid injury to roots, filling all voids.

- J. When soil settles, fill pit with soil mix and water again.
- K. Initial watering-in of trees by irrigation system will not be permitted.
- L. Hose down planted areas with fine water spray to wash leaves of plants if required.
- M. Remove tags from plants only after final acceptance by Owner's Representative or approved prior to final acceptance by Owner's Representative.
- N. Finish grade planting areas to a smooth, uniform surface plane with loose, uniformly fine-texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.4 MULCH

- A. Upon completion of planting, apply organic medium compost over a properly cleaned and graded subsurface to a minimum depth of 3" to all planted surfaces.
- B. Around trees, shrubs, and roobtalls, apply within eight hours after planting. Do not place compost mulch within 3 inches of trunks or stems.

3.5 INSTALLATION OF SUPPORTS

- A. Stake deciduous trees up to 2 1/2-inch caliper. Stake from three directions.
- B. Install with an angle of approximately 120 degrees between guys.

3.6 FIELD PRUNING

- A. Prune trees and shrubs to remove damaged branches, dead wood, and suckers to improve natural shape. Prune per National Arborist Association Standard No. 3.

3.7 ADJUSTMENT AND CLEANING

- A. Remove and replace plants or materials not meeting specified standards.
- B. Reinstall plants not located as indicated on the drawings.
- C. Keep the work area clean during progress of the work until completion.

3.8 MAINTENANCE

- A. Irrigate when necessary to avoid drying out of plant materials and to promote healthy growth, until end of one year warranty period.
- B. Inspect, adjust, and/or reposition browse protectors and wire mesh cages as needed to protect plant material.
- C. Refer to the Landscape Maintenance specification.

END OF SECTION 32 2900