SECTION 329000 PLANTING

PART 1 - GENERAL

1.1 SUMMARY

A. Provide all labor, material, equipment and services necessary to provide all landscape planting, complete in place, as shown and specified.

B. Scope of Work: Soil preparation, finish grading, planting, seeding, staking, clean-up, and maintenance.

C. Related Sections:
   1. Section XXXXXX – Decomposed Granite
   2. Section 328400 – Planting Irrigation

1.2 SUBMITTALS

A. Submit documentation to the University’s Representative within thirty days after award of Contract that all plant material is available, listing sources of materials.

B. Submittals shall include but not be limited to the following:

   1. Fertilizer: Chemical and percentage composition.
   2. Mulch: Size, type of material and fertilizer amendments.
   3. Amendments: Type, size and composition.
   4. Seed: Botanical and common name, percentage by weight, percentages of purity, germination and weed seed for each grass seed species.
   5. Planting schedule indicating anticipated dates for planting.
   6. Maintenance instructions recommending procedures to be established by the University for maintenance of landscaping during an entire year.

C. Quality Assurance Submittals:

   1. Plants shall be subject to inspection and approval of University’s Representative at place of growth or upon delivery for conformity to specifications. Such approval shall not impair the right of inspection and rejection during progress of the work inspection and tagging of plant material by the University’s Representative is for design intent only and does not constitute the University’s Representatives' approval of the plant materials in regards to their health and vigor. The health and vigor of the plant material is the sole responsibility of the Contractor. Submit written request for inspection of plant material at place of growth to University’s Representative. Written request shall state the place of growth and quantity of plants to be inspected. University’s Representative reserves the right to refuse inspection at this time if, in his judgment, a sufficient
quantity of plants is not available for inspection.

1.3 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery

1. Deliver fertilizer to site in unopened containers bearing manufacturer's guaranteed chemical analysis.

2. Furnish University’s Representative with copies of receipts for all amendments specified in Part 2 - Products, or amended by the required Soils Report.

3. Deliver all plants with legible identification labels.
   (a) Label trees, evergreens, bundles of containers of like shrubs, or groundcover plants.
   (b) State correct plant name and size indicated on plant list.
   (c) Use durable waterproof labels with water-resistant ink which will remain legible for at least sixty days.

4. Protect plant material during delivery to prevent damage to root ball or desiccation of leaves.

5. Notify the University’s Representative seven days in advance of delivery of all plant materials and submit an itemized list of the plants in each delivery.

6. Seed: Deliver seed in original sealed, labeled, and undamaged containers.
   (a) Ship and store seed, mulch and fertilizer with protection from weather or other conditions that would damage or impair the effectiveness of the product.

B. Storage

1. Store plant material in shade and protect from weather.

2. Maintain and protect plant material not to be planted within four hours in a healthy, vigorous condition.

C. Handling: The Contractor is cautioned to exercise care in handling, loading, unloading and storing of plant materials. Plant materials that have been damaged in any way will be discarded and if installed, shall be replaced with undamaged materials at the Contractor's expense.

1.4 COORDINATION AND SCHEDULING

A. Perform actual planting only when weather and soil conditions are suitable in accordance with standards of industry.

B. Scheduling: Install trees, shrubs, and liner stock plant material before wood mulch spreading is commenced.
C. Observation Schedule. The Contractor shall be responsible for notifying the University’s Representative in advance for the following site visits, according to the time indicated:
1. Plant material review at growing site - notify University’s Representative in less than fifteen days after award of contract.
2. Pre-job conference - 7 days.
3. Final grade review - 48 hours.
5. Plant material review - 48 hours.
6. Planting operation and plant layout review - 48 hours. One tree with each type of specified staking shall be approved prior to planting of trees - 48 hours.
7. Pre-maintenance - 7 days.
8. Final acceptance - 7 days.

1.5 SAMPLES AND TESTS

A. The University’s Representative reserves the right to take and analyze samples of materials for conformity to specifications at any time. Contractor shall furnish samples upon request by University’s Representative. Rejected materials shall be immediately removed from the site at Contractor's expense. Cost of testing of materials not meeting specifications shall be paid by Contractor.

PART 2 - PRODUCTS

2.1 GENERAL

A. The following organic, soil amendments and fertilizer are to be used for bid price basis only. Specific amendments and fertilizer specification will be made after rough grading operations are complete and soil samples are tested by the Contractor and approved by the University Representative. The amounts listed in the Preparation section are considered minimum amounts for the project unless directed otherwise by the University Representative.

B. All materials shall be of standard, approved and first-grade quality and shall be in prime condition when installed and accepted. Any commercially processed or packaged material shall be delivered to the site in the original unopened container bearing the manufacturer's guaranteed analysis. Contractor shall supply University’s Representative with a sample of all supplied materials accompanied by analytical data from an approved laboratory source illustrating compliance or bearing the manufacturer's guaranteed analysis.

2.2 ORGANIC AMENDMENT

A. Organic amendment shall be nitrogen stabilized wood residual containing 0.56 to 0.84% N based on dry weight.

B. Particle Size:
   95% - 100% passing 6.35 mm standard sieve
   80% - 100% passing 2.33 mm standard sieve
C. Salinity: The saturation extract conductivity shall not exceed 3.5 millimhos/centimeter at 25 degrees centigrade as determined by saturation extract method.

D. Iron Content: Minimum 0.08% dilute acid soluble Fe on dry weight basis.

E. Ash: 0-6.0% (dry weight).

2.3 SOIL AMENDMENTS

A. Soil Sulfur: Agricultural grade sulfur containing a minimum of 99% sulfur (expressed as elemental).

B. Iron Sulfate: 20% Iron (expressed as metallic iron), derived from ferric and ferrous sulphate, 10% sulfur (expressed as elemental).

C. Calcium Carbonate: 95% lime as derived from oyster shells.

D. Gypsum: Agricultural grade product containing 98% minimum calcium sulphate.

2.4 FERTILIZER

A. Planting Fertilizer: Pelleted or granular form shall consist of the following percents by weight and shall be mixed by commercial fertilizer supplier:
   - 16% nitrogen
   - 6% phosphoric acid
   - 8% potash

B. Planting Tablets
   1. Shall be slow-released type with potential acidity of not more than 5% by weight containing the following percentages of nutrients by weight:
      - 20% nitrogen
      - 10% phosphoric acid
      - 5% potash
      - 2.6% combined calcium
      - 1.6% combined sulfur
      - 0.35% iron (elemental) from ferrous sulfate

   2. Shall be 21 gram tablets as manufactured by Agriform, Best Tabs, or equal, applied per manufacturer's instructions.

C. Sulphate of Potash: 0-0-50.

D. Single Super-phosphate: Commercial product containing 18-20% available Phosphoric Pentoxide, or equal.

E. Urea Formaldehyde: 38-0-0.
2.5 IMPORT TOP SOIL (If Required)

A. Particle Size:

<table>
<thead>
<tr>
<th>CLASS</th>
<th>PARTICLE SIZE RANGE</th>
<th>MAXIMUM, % WT.</th>
<th>MINIMUM, % WT.</th>
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</thead>
<tbody>
<tr>
<td>Coarse Sand</td>
<td>0.5-2.0 mm</td>
<td>15</td>
<td>0</td>
</tr>
<tr>
<td>Silt Plus Clay</td>
<td>&lt; 0.05 mm</td>
<td>50</td>
<td>25</td>
</tr>
<tr>
<td>Silt</td>
<td>0.002 - 0.05 mm</td>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>Clay</td>
<td>0 - 0.002 mm</td>
<td>25</td>
<td>10</td>
</tr>
<tr>
<td>OTHER CLASSES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravel</td>
<td>2 - 13 mm</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Rock</td>
<td>&gt; ½ inch</td>
<td>10% by volume</td>
<td>None &gt; 1 inch</td>
</tr>
<tr>
<td>Organic Matter</td>
<td></td>
<td>15</td>
<td>0</td>
</tr>
</tbody>
</table>

B. The pH of saturated paste shall be between 5.5 and 7.5 without high qualitative lime content. The sodium absorption ratio (SAR) shall not exceed 6 and the electrical conductivity (ECe) of the saturation extract of this soil shall not exceed 3.0 milliohms per centimeter at 25 degrees centigrade. The boron content shall be no greater than one part per million as measured on the saturation extract. In order to ensure conformance, samples of the import soil shall be submitted to the laboratory for analysis prior to backfilling.

2.6 PLANT MATERIAL

A. Plants shall be in accordance with the California State Department of Agriculture's regulation for nursery inspections, rules and rating. All plants shall have a normal habit of growth and shall be sound, healthy, vigorous and free of insect infestations, weeds, plant diseases, sun scalds, fresh abrasions of the bark, excessive abrasions, or other objectionable disfigurements. Tree trunks shall be sturdy and have well "hardened" systems and vigorous and fibrous root systems that are not root or pot-bound. In the event of disagreement as to condition of root system, the root conditions of the plants furnished by the Contractor in containers will be determined by removal of earth from the roots of not less than two plants or more than two percent of the total number of plants of each species or variety. Where container-grown plants are from several sources, the roots of not less than two plants of each species or variety from each source, will be inspected. In case the sample plants inspected are found to be defective, the University’s Representative reserves the right to reject the entire lot or lots of plants represented by the defective samples.
B. The size of the plants will correspond with that normally expected for species and variety of commercially available nursery stock or as specified on drawings. The minimum acceptable size of all plants measured before pruning with the branches in normal position, shall conform with the measurements, if any, specified on the drawings in the list of plants to be furnished. Plants larger in size than specified may be used with the approval of the University’s Representative. If the use of larger plants is approved, the ball of earth or spread of roots for each plant will be increased proportionately.

C. All plants not conforming to the requirements herein specified, shall be considered defective and such plants, whether in place or not, shall be marked as rejected and immediately removed from the site of the work and replaced with new plants at the Contractor's expense.

D. Pruning: At no time shall trees or plant materials be pruned, trimmed or topped prior to delivery and any alteration of their shape shall be conducted only with the approval and when in the presence of the University’s Representative.

E. Plant material shall be true to botanical and common name and variety as specified in "Annotated Checklist of Woody Ornamental Plants in California, Oregon and Washington," published by the University of California School of Agriculture (1979).

F. Nursery Grown and Collected Stock:
   1. Grown under climatic conditions similar to those in locality of project.
   2. Container-grown stock in vigorous, healthy condition, not root-bound or with root system hardened off.
   3. Use only liner stock plant material which is well established in removable containers or formed homogenous soil sections.

2.7 SEED

A. Grass Seed: Fresh, clean, dry, new-crop seed complying with the Association of Official Seed Analysts' "Rules for Testing Seeds" for purity and germination tolerances.
   Seed Mixture: Provide seed of grass species and varieties, proportions by weight, and minimum percentages of purity, germination, and maximum percentage of weed seed as indicated.

B. Substitutions:
   1. If specified seed material is not obtainable, submit proof of non-availability to University’s Representative, together with proposal for use of equivalent material.
   2. Substantiate such proof in writing no later than thirty days after Award of Contract.

C. Materials
   1. Seed Mix (at 10 lbs. per 1000 square feet).
      33.64% Sunpro tall fescue (pure live seed)
      33.43% Shortstop II tall fescue (pure live seed)
      32.16% Bladerunner tall fescue (pure live seed)
D. Fiber Mulch: Biodegradable dyed-wood cellulose-fiber mulch, non-toxic, free of plant growth or germination inhibitors, with maximum moisture content of fifteen percent and a pH range of 4.5 to 6.5.

E. Non-asphaltic Tackifier; Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application, non-toxic and free of plant growth or germination inhibitors.

2.8 STAKING MATERIALS

A. Tree Stakes: R2 Stake System by JR Partners, Turlock, CA, or equal.

2.9 WATER

A. Provide or use only from University utility water source.

2.10 MULCH

A. Shall be "Shredded Cedar Bark" as supplied by:
   Redi-Gro, Sacramento
   Sierra Organic, Manteca
   Mallard Creek, Rocklin, or equal

B. The mulch shall consist of fibrous, woody bark mixture of varied particle size such that:

<table>
<thead>
<tr>
<th>PERCENT PASSING</th>
<th>SIEVE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>25.4 mm (1&quot;)</td>
</tr>
<tr>
<td>80-100</td>
<td>12.7 mm (1/2&quot;)</td>
</tr>
<tr>
<td>20-60</td>
<td>6.35 mm (1/4&quot;)</td>
</tr>
</tbody>
</table>

2.11 WOOD HEADERBOARDS

A. Headerboards shall be 2" x 4" pressure treated Douglas Fir or Redwood construction heart grade. Splices shall be made with 1" x 4" and shall not be less than twelve inches in length. Stakes shall be placed at intervals of not more than four feet and shall be one inch by three inches by sixteen inches "construction heart redwood." All stakes shall be cut with level cut and set below top of headerboard.

B. On sharp turns and curves, four 1/2" x 4" laminated board or two 1" x 4" laminated boards may be permitted.

C. Stakes and splices shall be nailed with galvanized common nails. Nail as required for solid installation.

D. Headerboards shall be furnished as shown on the drawings and herein specified. They shall be laid true to line and grade, and in a workmanlike manner. Care shall be exercised in laying wood headers to protect adjacent improvements, shrubbery and other properties from damage. All stakes shall be placed on ground cover side of
2.12 SAND

A. Washed Silica Sand.

2.13 PLANTER DRAINAGE ROCK

A. Drainage rock to be 1/4" pea gravel and shall be clean, hard, should, durable, uniform in quality, and free of any detrimental quantity of soft, friable, thin, elongated, or laminated pieces, disintegrated material, organic matter, oil, alkali, or other deleterious substance.

PART 3 - EXECUTION

3.1 INSPECTION

A. Obtain University Representative’s written acceptance that planting soils have been cleaned of all construction debris, including gravel, concrete, concrete washout, paints, asphalt, etc.

B. Obtain University Representative’s written acceptance that final grades to ±0.10' have been established prior to commencing planting operations. Provide for inclusion of all amendments, settling, etc. Contractor shall be responsible for shaping all planting areas as indicated on plans or as directed by University’s Representative.

C. Prior to planting, inspect trees, shrubs and liner stock plant material for injury, insect infestation and trees and shrubs for improper pruning.

D. Do not begin planting of trees until deficiencies are corrected or plants replaced.

3.2 PREPARATION

A. Clean Up: Contractor shall review site conditions and previously completed rough grading to verify that all imported stones, stumps, gravel, concrete, asphalt, and other construction debris have been cleared from the site to a depth of twenty-four inches, prior to initiating project work. Contractor to remove any and all germinated weeds.

B. Soil Preparation:
   1. Place a minimum of twelve inches of clean topsoil back into all planting areas. The next lower twelve inches of soil shall be cleared of all stones, stumps, debris, etc., larger than one quarter inch in diameter, that are brought to the surface as a result of cultivations. Cultivation shall be by rototilling or ripping equipment. Call Underground Service Alert (USA) before beginning cultivation operations.

   2. After approximate finished grades have been established, soil shall be conditioned and fertilized in the following manner. Amendments shall be uniformly spread and cultivated thoroughly by means of mechanical tiller into the top six inches of soil. The following organic, soil amendments and fertilizer rates, and quantities are to be used for bid basis only. Specific planting...
specifications will be made after rough grading operations are complete and soil samples are tested by the Contractor and approved by the University Representative. The below rates/quantities are considered minimum amounts for the project work:

Application Rates: (Per 1,000 square feet)
(a) Organic amendment – six cubic yards for groundcover and shrub beds, three cubic yards for lawn areas. University Representative may request delivery tags.
(b) Fertilizer - 15 lbs.
(c) Gypsum - 200 lbs.
(d) Soil sulphur - 20 lbs.
(e) Iron – 2 lbs.
(f) Calcium carbonate – 2 lbs.

C. Final Grades:
1. All areas shall be graded so that the final grades will be one inch below adjacent paved areas, sidewalks, valve boxes, headers, clean-outs, drains, manholes, etc. or as indicated on plans.
2. Surface drainage shall be away from all building foundations.
3. Eliminate all erosion scars prior to commencing maintenance period.

D. Disposal of Excess Soil: Dispose of any unacceptable or excess soil at an offsite location approved by the University.

3.3 PLANTING INSTALLATION

A. General:
1. Only as many plants as can be planted and watered on that same day shall be distributed in a planting area.
2. Containers shall be opened and plants shall be removed in such a manner that the ball of earth surrounding the roots is not broken and they shall be planted and watered as herein specified immediately after removal from the containers. Containers shall not be opened prior to placing the plants in the planting area.

B. Pre-plant Weed Control:
1. If live perennial weeds exist on site at the beginning of work, spray with a non-selective systemic contact herbicide, as recommended and applied by an approved licensed landscape pest control advisor and applicator. Leave sprayed plants intact for at least fifteen days to allow systemic kill. Clear and remove these existing weeds by mowing or grubbing off all plant parts at least a quarter of an inch below the surface of the soil over the entire area to be planted.
2. After irrigation system is operational, apply water for five to ten days as needed to achieve weed germination. Apply contact herbicides and wait as needed before planting. Repeat, if required by University’s Representative.
3. Maintain site weed free until final acceptance by the University utilizing mechanical and chemical treatment.
C. Layout of Major Plantings: Locations for plants and outlines of areas to be planted shall be marked on the ground by the Contractor before any plant pits are dug. All such locations shall be approved by the University’s Representative. If underground construction or utility line is encountered in the excavation of planting areas, other locations for planting may be selected by the University’s Representative. Layout shall be accomplished with flagged grade stakes indicating plant names and specified container size on each stake.

D. Planting of Trees and Shrubs:
1. Excavation for planting shall include the stripping and stacking of all acceptable topsoil encountered within the areas to be excavated for trenches, tree holes, plant pits and planting beds.

2. Excess soil generated from the planting holes and not used as backfill or in establishing the final grades shall be removed from the site.

3. Protect all areas from excessive compaction when trucking plants or other material to the planting site.

4. All excavated holes shall have vertical sides and shall be of a size that is twice the diameter and one and one-half times the depth of the root ball for all trees and shrubs. After pits are dug, roughen the sides of the pit and loosen soil in the bottom of the pit to a depth of three inches. Construct foot-tamped mound in the bottom of the pit to support the plant at the proper level.

5. Do not handle container plants by the tops, stems or trunks at any time. Lift all plants so that the root ball is supported from the underside. Plants that do not have a satisfactory root system will be rejected. If plants do not have young feeder roots showing at the edge of the container, loosen their roots and score the root ball with a half inch deep vertical line to encourage new feeder root development.

6. Center plant in pit or trench. Crown of trees should be one and a half inches minimum above finish grade. Crown of shrubs should be one inch above finish grade.

7. Face plants with fullest growth into prevailing wind.

8. Set plant plumb and hold rigidly in position until soil has been tamped firmly around ball or roots.

9. Backfill for trees and shrubs shall consist of amended native soil. If native soil is unsuitable or contaminated, use imported topsoil as specified above.

10. All plants which settle deeper than the surrounding grade shall be raised to the correct level. After the plant has been placed, additional backfill shall be added to the hole to cover approximately one-half of the height of the root ball. At this stage, water shall be added to the top of the partly filled hole to thoroughly saturate the root ball and adjacent soil.
11. Container Removal:
   (a) Cut containers on two sides with an acceptable can cutter.
   (b) Do not injure root ball.
   (c) Do not cut containers with spade or ax.
   (d) After removing plant, superficially cut edge roots with knife on three sides.

12. Box Removal:
   (a) Remove bottom of plant boxes before planting.
   (b) Remove sides of box without damage to root ball after positioning plant and partially backfilling.

13. Plant Tablets:
   (a) After the water has completely drained, planting tablets shall be placed as indicated below.
      - One tablet per one-gallon container.
      - Three tablets per five-gallon container.
      - Seven tablets per 15-gallon container.
      - Ten tablets per 24" box.
      - Twelve tablets per 30" box.
      - Fourteen tablets per 36" box.
      - Sixteen tablets per 42" box.
      - Eighteen tablets per 48" and those box sizes which are larger.
   (b) Planting tablets shall be set with each plant on top of the root ball while the plants are still in their containers so the required number of tablets to be used in each hole can be easily verified by the University’s Representative.

14. Backfill:
   (a) The remainder of the hole shall then be backfilled with two-thirds native soil and one-third organic amendment thoroughly blended and tamped firm.
   (b) After backfilling, an earthen basin shall be constructed around each plant. Each basin shall be of a depth sufficient to hold at least two inches of water. The basins shall be constructed of amended backfill materials. Remove basin in all turf areas after initial watering.

15. Pruning: Pruning shall be limited to the minimum necessary to remove injured twigs and branches, and to shape the plant material as directed by the University’s Representative. Pruning may not be done prior to delivery of plants. Cuts over three-quarters of an inch in diameter shall be painted with tree paint.

16. Staking and Guying: Staking of all trees shall be completed immediately after planting. All stakes shall be installed plumb and as indicated in details.

E. Planting of Groundcovers:
1. Groundcover plants shall be grown in flats or gallon containers as indicated on the plans. Flat grown plants shall remain in those flats until transplanting. The flat's soil shall contain sufficient moisture so that it will not fall apart when lifting the plants.

2. Groundcover shall be planted in straight rows and evenly spaced, unless
otherwise noted, and at intervals called out in the drawings. Triangular spacing shall be used unless otherwise noted on the drawings.

3. Each rooted plant shall be planted with its proportionate amount of flat or container soil. Plantings shall be immediately sprinkled after planting until the entire area is soaked to the full depth of each hole.

4. Care shall be exercised at all times to protect the plants after planting. Any damage to plants by trampling or other operations of this Contract shall be repaired immediately.

F. Mulch Cover: All groundcover, perennial, and shrub beds to be dressed with a three inch layer of mulch, where slopes are not steeper than 2:1

G. Hardpan Conditions:
1. Where hardpan exists, whether it is in the form of caliche or other impervious clay, and it is within the top two and a half feet of soil, use powered equipment to break through completely at each tree location to allow drainage and root growth. Remove hardpan at least one and a half feet greater than the root ball diameter of tree. Backfill with soil mix as specified.

2. Where hardpan is within the first twelve inches of soil, it shall be completely penetrated for all shrubs.

H. Lawn:
1. Seeded Lawn (see pre-plant weed control):
   (a) Install soil amendments and finish grading as specified. Allow for settlement.
   (b) Broadcast seed evenly at the rate of twelve pounds per thousand square feet.
   (c) Rake seed bed lightly to cover seed with soil.
   (d) Cover seed with one eighth of an inch to one quarter of an inch layer of amended soil. Seed cover shall not exceed one quarter of an inch.
   (e) Roll seedbed with 200 pound roller. Finished surface shall meet finish grades shown.
   (f) Water thoroughly.
   (g) At end of maintenance period, lawn shall be dense, uniform, healthy and free of weeds, diseases or bare spots.
   (h) At Contractor’s option, lawn may be hydroseeded.

2. Hydroseeding:
   (a) Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogenous slurry suitable for hydraulic application.
   (b) Mix slurry with non-asphaltic tackifier.
   (c) Apply slurry uniformly to all areas to be seeded in a one step process. Apply mulch at the minimum rate of 1500 pound per acre dry weight but not less than the rate required to obtain specified seed-sowing rate.
   (d) Acceptance of all seeded areas will be based on growth of a uniform color and dense stand of grass, without bare spots of over four inches square. If grass is not established prior to the end of the maintenance period the Contractor shall provide an additional hydroseed application and shall
continue maintenance until seeded areas are accepted by the University.

3. Sod:
   (a) Lay sod immediately upon delivery.
   (b) Finish grade sodbed to remove ridges and depressions. Roll with 200 pound roller.
   (c) University Representative will review and approve sodbed before installation.
   (d) Butt strips tightly together. Stagger joints.
   (e) Roll sod after installation with 200 pound roller.
   (f) Water thoroughly.
   (g) At end of maintenance period, lawn shall be dense, uniform, healthy, and free of weeds, diseases or bare spots.

3.4 CLEAN UP

A. After all planting operations have been completed, remove all trash, excess soil, empty plant containers and rubbish from the property. All scars, ruts or other marks in the ground caused by this work shall be repaired and the ground left in a neat and orderly condition throughout the site. Contractor shall pick up all trash resulting from this work no less frequently than each Friday before leaving the site, once a week, and/or the last working day of each week. All trash shall be removed completely from the site.

B. The Contractor shall leave the site area broom-clean and shall wash down all paved areas within the Contract area, leaving the premises in a clean condition. All walks shall be left in a clean and safe condition.

C. Promptly remove soil and debris created by hydroseed work from paved areas and building walls. Clean wheels of vehicles before leaving site to avoid tracking soils onto surfaces of roads, walks, or other paved areas.

3.5 MAINTENANCE & PLANT ESTABLISHMENT

A. General: Maintain all plants and planting areas from time of delivery, through installation and maintenance period, until final acceptance.

B. Schedule: Submit proposed maintenance work schedule to University Representative in writing for review at least thirty days prior to commencement of maintenance work. Maintenance work shall be done at times accepted by University.

C. Maintenance Procedures:
   1. General: Maintenance of new planting includes but is not limited to watering, cultivating, fertilizing, weeding, mulching, re-staking, resetting plants to proper grades or upright positions, restoring watering basins, mowing lawns to two inch height, removal of dead flowers and broken twigs, pest, disease and weed control, erosion control, restoring finish grades with accepted and tested imported topsoil, and taking precautions as necessary to prevent sunscald damage. Remove nursery tags and repair mulch ten days before final acceptance.
2. Protection: Protect planting areas and plants against damage until final acceptance. Maintenance also includes temporary fences, barriers, and signs as required for protection. Treat or replace damaged plants as directed by University Representative at no additional cost to University.

3. Fertilization of lawn areas: Apply potassium sulfate and 16-6-8 fertilizer at the rate of six pounds each per thousand square feet, thirty days after installation.

4. Weed control:
   (a) Keep site free of weeds during maintenance period.
   (b) Identify weeds and apply accepted control methods.
   (c) Herbicides, if used, shall be applied by licensed Pest Control Operator according to manufacturer’s recommendations.

D. Observation for Maintenance Period Commencement: Request after work of this section and Section 328400 PLANTING IRRIGATION is substantially complete. Maintenance Period shall begin upon written notice of acceptance by University Representative and shall continue for a minimum of sixty days until final acceptance.

END OF SECTION