

SECTION 02920 - TURF AND GRASSES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Fine grading, loaming, liming, and fertilizing.
 - 2. Seeding: Turf.
 - 3. Mulch.
 - 4. Sodding

- B. Related Sections include the following:
 - 1. Division 2 Section "Site Clearing" for topsoil stripping and stockpiling.
 - 2. Division 2 Section "Earthwork" for excavation, filling and backfilling, and rough grading.
 - 3. Division 2 Section "Exterior Plantings".

1.03 DEFINITIONS

- A. Finish Grade: Elevation of finished surface of planting soil.

- B. Manufactured Soil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.

- C. Planting Soil: Native or imported topsoil, manufactured topsoil, or surface soil modified to become topsoil; mixed with soil amendments.

- D. Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill immediately beneath planting soil.

1.04 SUBMITTALS

- A. General: Submit in accordance with Section 01330.

- B. Product Data: For each type of product indicated.

- C. Material List: Before seeding materials are delivered to job site, submit to the Architect a complete list of seeding and other items proposed to be installed.
 - 1. Include complete data on source, size and quality.
 - 2. Demonstrate complete conformance with requirements of this Section.
 - 3. This shall in no way be construed as permitting substitution for specific items described in Drawings or these Specifications unless substitution has been approved in advance by the Architect.

- D. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture stating botanical and common name and percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
 - 1. Prior to installation, deliver certificates to the Architect.
 - E. Qualification Data: For landscape Installer.
 - F. Topsoil Test Reports for existing surface soil and imported topsoil: Submit topsoil analysis done by a soil testing agency such as Maine Soil Testing and Analytical Lab Tel: (207) 581-2934) for review by the Owner's representative. State recommended quantities for amendments necessary to produce satisfactory topsoil as state in the specifications herein.
 - G. Planting Schedule: Indicating anticipated planting dates for each type of planting.
 - H. Maintenance Instructions: Recommended procedures to be established by Owner for maintenance of lawns during a calendar year. Submit before expiration of required maintenance periods.
- 1.05 QUALITY ASSURANCE
- A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful lawn establishment.
 - 1. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when planting is in progress.
 - B. Topsoil Analysis: Furnish soil analysis by a qualified soil-testing laboratory stating percentages of organic matter; gradation of sand, silt, and clay content; cation exchange capacity; deleterious material; pH; and mineral and plant-nutrient content of topsoil.
 - 1. Report suitability of topsoil for lawn growth. State recommended quantities of nitrogen, phosphorus, and potash nutrients and soil amendments including organic material or compost to be added to produce satisfactory topsoil.
 - 2. Based on the test results, state recommendations for soil treatments and soil amendments to be incorporated. State recommendations in weight per 100 sq. ft. (92.9 sq. m) or volume per cu. yd. (0.76 cu. m) 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 action.
- 1.06 DELIVERY, STORAGE, AND HANDLING
- A. Seed: Deliver seed in original sealed, labeled, and undamaged containers with labels legible at time of Architect's inspection.
 - 1. Labels shall identify analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging, location of packaging, and name of seed grower. Damaged packages will not be accepted.
 - B. Deliver fertilizer in sealed waterproof bags, printed with manufacturer's name, weight,

and guaranteed analysis.

- C. Immediately remove from the site seeding materials that are not true to name and materials which do not comply with the provisions of this Section of these Specifications.
- D. Protect seeding materials before, during and after installation and to protect the installed work and materials of other trades.
- E. Replacements: In the event of damage or rejection, immediately make repairs and replacements necessary to the approval of Architect, at no additional cost to Owner.
- F. Sod: Harvest, deliver, store, and handle sod according to requirements in "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" in TPI's "Guideline Specifications to Turfgrass Sodding." Deliver sod in time for planting within 24 hours of harvesting. Protect sod from breakage and drying.

1.07 SCHEDULING

- A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.
 - 1. Spring Planting: April 15th to June 15th.
 - 2. Fall Planting: August 15th to September 15th.
 - 3. Variance: If special conditions exist which may warrant a variance in the above planting dates, a written request shall be submitted to Architect stating special conditions for proposed variance. Permission for variance will be given if warranted in opinion of Architect. Regardless of time of seeding, Contractor shall be responsible for full growth of grass.
- B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit.

1.08 LAWN MAINTENANCE

- A. Begin maintenance immediately after each area is planted and continue until acceptable lawn or meadow is established, but for not less than the following periods:
 - 1. Seeded Lawns: Shall continue until Substantial Completion, but not less than 120 days and 4 mowings, whichever is longer.
 - 2. When full maintenance period has not elapsed before end of planting season, or if lawn is not fully established, continue maintenance during next planting season (April 15th through October 15th).
- B. Maintain and establish lawn by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, re-grade, and replant bare or eroded areas and re-mulch to produce a uniformly smooth lawn.
 - 1. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch. Anchor as required to prevent displacement.
- C. Watering: Provide and maintain temporary piping, hoses, and lawn-watering equipment to convey water from sources and to keep lawn uniformly moist to a depth of **4-inches**.

1. Schedule watering to prevent wilting, puddles, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
 2. Water lawns in a satisfactory manner during and immediately after planting and not less than twice per week until Substantial Completion.
- D. After grass has sprouted, seeded areas, which fail to show uniform stand of grass for any reason, shall be reseeded repeatedly until uniform stand is attained. Scattered bare spots approximately 8 inches in size, evenly distributed in any lawn area will be allowed at discretion of Architect.
- E. First mowing for turf/lawn areas shall be done when average height of grass is 3 inches, with mower set to cut at a height of 2 inches. Subsequent mowings shall be made at not over two week intervals, with the height of cut set at 2 inches. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. With prior permission of Architect, mowings during periods of slow growth or dormancy may be spaced at greater intervals. Lawn Post fertilization: Apply fertilizer after initial mowing and when grass is dry.
1. Use fertilizer that will provide actual nitrogen of at least 1 lb/1000 sq. ft. to lawn area.
- F. If lawn or grass is established in the fall and maintenance is required to continue into spring months, lawn and grass shall receive an application of lime and fertilizer in the spring. Lime and fertilizer shall be spread in a uniform layer over entire lawn surface, at the rates recommended by a soil test administered at that time.
- G. Correct graded areas that settle during the first 12 months after Provisional Acceptance in lawn areas, including loaming and seeding. Reseeding shall be done as herein specified.
- H. When initial maintenance period has not elapsed before the end of the planting season, or if lawn/turf is not fully established continue maintenance during next planting season.

PART 2 - PRODUCTS

2.01 SEED

- A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.
- B. Seed Species: Seed of grass species as follows, with not less than 95 % germination, not less than 85 % pure seed and not more than 0.5 % weed seed:
1. Lawn - Allen, Sterling & Lothrop, Falmouth, ME; Tuffturf mixture.
 - a. 10 % Baron Kentucky bluegrass.
 - b. 70 % Diamond Tall fescue.
 - c. 20 % perennial ryegrass.
- C. Wet, moldy, or otherwise damaged seed will be rejected.

2.02 TURFGRASS SOD

- A. Turfgrass Sod: Complying with “Specifications for Turfgrass Sod Materials in TPI’s “Guideline Specifications to Turfgrass Sodding.” Furnish viable sod of uniform density, color, and texture, strongly rooted, and capable of vigorous growth and development when planted.
- B. Turfgrass Species: Sod of grass species as follows, with not less than 95% germination, not less than 85% percent pure seed, and not more than 0.5% percent weed seed:
 - 1. Full Sun: Kentucky blue grass (*Poa pratensis*), a minimum of three cultivars.
 - 2. Sun and Partial Shade: Proportioned by weight as follows:
 - a. 50% Kentucky bluegrass (*Poa pratensis*).
 - b. 30 percent chewings red fescue (*Festuca rubra* variety).
 - c. 10 percent perennial ryegrass (*Lolium perenne*).
 - d. 10 percent redtop (*Agrostis alba*).
 - 3. Shade: Proportioned by weight as follows
 - a. 50 percent chewings red fescue (*Festuca rubra* variety).
 - b. 35 percent rough blue grass (*Poa trivialis*).
 - c. 15 percent redtop (*Agrostis alba*).

2.03 PLANTING LAWNS

- A. Fine grade lawn areas to finish grades, filling as needed or removing surplus dirt and floating areas to a smooth uniform grade as indicated on grading plans. All lawn areas shall slope to drain.

Where no grades are shown, areas shall have a smooth and continual grade between existing or fixed controls (such as walks, curbs, catch basins, elevations at steps or building) and elevations shown on plans. Roll, scarify, rake and level as necessary to obtain true, even lawn surfaces. All finish grades shall meet approval of the architect before grass seed is shown.

- B. Loosen topsoil to depth of 12-inches in areas where topsoil has been spread. Add specified soil amendments and mix thoroughly into top 6-inches of topsoil, till surface to level, fine texture.
- C. Grade and roll prepared lawn surface. Water thoroughly but do not create muddy soil condition.
- D. Sow seed uniformly in two directions in the quantity recommended by the seed producer, except as otherwise indicated. Rake seed lightly into top 1/8 inch of soil surface. Water thoroughly with fine spray.
- E. Protect seeded areas against erosion by spreading straw to a uniform loose depth of 1-1/2 inches.

2.04 TOPSOIL

- A. General: Topsoil, except that existing on site, will not be made available by Owner.

Contractor shall be responsible for supplying any additional topsoil needed and hauling it to site. It shall be obtained from naturally well-drained areas. Whether from on- or off-site source, topsoil shall be fertile, friable natural loam containing no less than 6% nor more than 12 % organic matter of total dry weight. Topsoil shall have a pH value between 5.5 - 6.5. If topsoil does not fall within required pH range, limestone or aluminum sulfate shall be added to bring pH within specified limits. Topsoil shall not contain soluble salts greater than 500 parts per million and shall not contain toxic substances that may be harmful to plant growth. Topsoil shall be without admixture of subsoil and shall be cleaned and free from clay lumps, stones, stumps, roots, or similar substances 3/4-inch or more in diameter, debris, or other objects which might be a hindrance to planting operations. Soil shall not be used for planting while in frozen or muddy condition. Furnish all topsoil required to complete work. Contractor shall dispose of removed materials.

- B. Maximum particle size shall be 3/4-inch with maximum of 3% retained on 1/4-inch sieve. Composition shall be in the following range:

	<u>% of Total Weight</u>	<u>Average %</u>
Sand	50 - 70	60
Silt	18 - 35	25
Clay	5 - 20	15

- C. Initial Testing: Submit representative samples taken from on-site topsoil and borrow sources to a Soil Testing Laboratory for chemical and physical analysis. Each sample shall be composed of 10 small grab samples from throughout the source mixed together. Indicate to the testing agencies that turf is to be planted and provide the name of the Owner. Forward to the Architect two copies of analysis and recommendations of testing agencies.
- D. Final Testing: After the final topsoil has been amended and mixed as recommended, take representative samples and submit them to a Soil Testing Laboratory for chemical and physical analysis. Each sample shall be composed of 10 small grab samples from throughout the source mixed together. Make final amendments to topsoil to meet specification, based on test results.

2.05 INORGANIC SOIL AMENDMENTS

- A. Lime: ASTM C 602, ground dolomitic limestone, approved for agriculture, containing not less than 85 % of total carbonates with a minimum of 30 % magnesium carbonates. Limestone shall be ground to a fineness that allows 50 % to pass through a 100 mesh sieve and 90 % to pass through a 20 mesh sieve.
- B. Aluminum Sulfate: Commercial grade, unadulterated. Deliver in containers with the name of material and manufacturer, and net weight of contents.

2.06 ORGANIC SOIL AMENDMENTS

- A. Compost: Shall meet Maine Department of Environmental Protection guidelines under Chapter 567: Section C and must be approved for commercial landscaping. Vendor shall provide approximate nitrogen availability calculations for soil blending and complete set of available plant nutrients, pH, trace metals, total volatile solids, and soluble salts,

measured water holding capacity and maturity measurements. It shall be weed seed free and consist of approximately equal portions of municipal bio-solids, short paper fiber, wood ash and sawdust and be the product of 15 days of thermophillic aerobic decomposition followed by 90 days of curing.

Compost will be adequately stabilized, pathogen free with acceptable odor. Material shall pass through a 3/8-inch mesh screen, be friable and free of stones, sticks and all objectionable debris. Compost source is subject to the review of Architect. Compost shall meet the following parameters:

C:N Ratio	20:1 to 35:1
Total Nitrogen	<1.5%
Maturity Index	Stable to Very Stable
Texture	100% passing 3/8-inch screen
Soluble Salts	<4 mmhos/cm
Moisture Content	40% to 60%
Total Volatile Solids	<60%
Density	800 - 1200 lbs. /cy

Product: Earthlife Products; BFI Organics, 5 Fundy Road, Falmouth, ME or approved equal or Benson Farm Earth Products, Gorham, Maine.

- B. Peat: Shall be moist, finely shredded, consisting of 90 % organic moss peat, be brown in color, and suitable for horticultural purposes. Shredded particles shall not exceed 1-inch in diameter. Peat shall be measured in air dry condition, containing not more than 35 % moisture by weight. Ash content shall not exceed 10 %.

2.07 COMMERCIAL FERTILIZER

- A. Fertilizer shall conform to the following:
 - 1. When applied as a topsoil amendment, fertilizer shall have an analysis that will deliver appropriate amounts of nitrogen, phosphorus, and potassium as required to remedy deficiencies revealed by testing the topsoil. Recommendations shall be noted by the soil analysis.
 - 2. When used as a top dressing for the maintenance of sod, fertilizer shall conform to the following:

<u>Constituent</u>	<u>% Present by Weight</u>
Nitrogen (N)	10
Phosphorous (P)	8
Potassium (K)	4

- a. 50% of nitrogen shall be derived from natural organic source of urea form.
 - b. Available phosphorous shall be derived from super phosphate, bone mean, or tankage
 - c. Potassium shall be derived from muriate of potash containing 60% potash.
- B. Fertilizer shall be delivered in manufacturer's standard container printed with manufacturer's name, material weight, and guaranteed analysis.
- C. Fertilizers with N-P-K analysis other than that stated above may be used provided that the application rate per square foot of nitrogen, phosphorus, and potassium is equal to that specified.

2.08 WATER

- A. Water shall be suitable for irrigation and free from ingredients harmful to seeded areas.

2.09 MULCH

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley. No material shall be used which is so wet, decayed, or compacted as to inhibit even and uniform spreading. No chopped hay, grass clippings or other short fibered material shall be used unless directed.
- B. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with maximum moisture content of 15 % and a pH range of 4.5 to 6.5. Provide in moisture resistant sealed bags marked with the manufacturer's name, the air-dry weight, and composition of the contents.
- C. Nonasphaltic Tackifier: Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.
- D. Hydro Mulch: Shall be Terra-Sorb G.B., or an approval equal. Add Terra-Sorb to the hydro seed tank at the amount of 60 pounds per acre.
- E. Mulch Binder: Asphalt emulsion, ASTM D977, Grade SS-1, non-toxic and free of plant growth or germination inhibitors.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive lawns and grass for compliance with requirements and other conditions affecting performance.
1. Confirm that subgrade is to a true, smooth slope, parallel and at the depth shown on Drawings below finish grade, for seed bed areas. There must be sufficient grade staked, as determined by Architect, to insure correct line and grade of subgrade and finished grade.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION OF SUBGRADE

- A. Immediately prior to being covered with topsoil, loosen or cultivate the top 6- to 12- inches of subgrade. Subgrade shall be brought to true and uniform grade, and shall be cleared of stones, sticks, and other foreign material greater than 1-1/2 inches in any dimension and legally dispose of them off Owner's property.
1. Where construction activities occur, adjacent structures or compacted soils loosen or cultivate subgrade to a depth of 12- to 18-inches in the location of planting beds.

3.03 TOPSOIL SPREADING

- A. Topsoil shall not be spread until it is possible to commence seeding operations within 24 hours. If topsoil is spread prior to this time, it shall be cultivated to loosen soil prior to

seeding.

- B. Topsoil shall not be placed when either subgrade or topsoil material are frozen, excessively wet, or excessively dry.
- C. Place and spread topsoil over areas designated on the Drawings as "loam and seed", and in plant beds in a uniform layer to a thickness which will compact to depth required to bring surfaces to required elevation. Unless otherwise indicated, minimum depth in lawn areas shall be 6 inches after compaction, and **12-inches** in planting beds.
- D. After spreading topsoil in designated areas, topsoil shall be carefully prepared by scarifying or harrowing, and by removing stones over one inch in diameter. Topsoil shall be free of smaller stones in excessive quantities, as determined by Architect.
- E. Roll entire surface with a roller weighing not more than 100 pounds per foot of width. During rolling, all depressions caused by settlement of rolling shall be filled with additional topsoil, and the surface regraded and rolled.
- F. Surfaces shall be graded and smoothed, eliminating all sharp breaks by rounding, scraping off bumps and ridges, and filling in holes and cuts.

3.04 FERTILIZER AND CONDITIONERS APPLICATION

- A. Fertilizer and conditioners shall be applied at the following rates:
 - 1. Aluminum Sulfate: As required by test results of topsoil.
 - 2. Limestone: As required by test results of topsoil.
 - 3. Fertilizer: As required by test results of topsoil.
- B. Mixing with Topsoil: Fertilizer and conditioners shall be spread over entire areas to be seeded at application rates indicated above. Materials shall be uniformly and thoroughly mixed into top 4 inches of topsoil by discing, rototilling, or other approved method. In areas inaccessible to power equipment, use hand tools. Adjacent to trees and shrubs use hand tools to avoid disturbance of the roots.

3.05 FINISH GRADING

- A. Finish Grading: Grade surfaces to a smooth, uniform surface plane without sharp breaks. Surface shall have a loose, uniformly fine texture. Grade to within plus **1/2-inch (13 mm)** of finish elevation. Remove stones, roots, and other debris greater than 1-inch in any dimension, which are visible at the surface and fill resulting holes with topsoil, leaving a uniform planar surface.
- B. Finish grade surface with a drag or rake. Round out all breaks in grade, smooth down all lumps and ridges; fill in all holes and crevices. Rolling with a light roller is acceptable, if surface is scarified afterward.
- C. In the event of settlement, Contractor shall readjust the work to required finish grade.
- D. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- E. Restore areas if eroded or otherwise disturbed after finish grading and before planting.

3.06 SEEDING

- A. Sow seed evenly with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph or when it is raining or snowing. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
 - 1. Do not use wet seed or seed that is moldy or otherwise damaged.
 - 2. Rake seed in lightly.
- B. Sow seed at the rate recommended by Allen, Sterling & Lothrop, Falmouth, ME.
 - 1. TUFFTURF Mixture: 1 lb. per 200 sq. ft. of area.
- C. Cultipacker, or approved similar equipment, may be used to cover the seed and to firm seed bed in one operation. In areas inaccessible to cultipacker, seeded ground shall be lightly raked and rolled in two directions with a water ballast roller. Extreme care shall be taken during seeding and raking to insure no change shall occur in finish grades and that seed is not raked from one spot to another.
- D. Promptly after seeding, wet seeded area thoroughly, keeping all areas moist throughout the germination period 4-6 weeks. Initial watering shall continue until the equivalent of a 2-inch depth of water has been applied to entire seeded surface, at a rate which will not dislodge the seed. Watering shall be repeated thereafter as frequently as required to prevent drying of surface, until grass attains an average height of 1/4-inch. Watering methods and apparatus, which may cause erosion of surface, shall not be permitted.
- E. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form continuous blanket 1½-inches in loose depth over seeded areas. Spread by hand, blower, or other suitable equipment.
 - 1. Anchor straw mulch by crimping into topsoil with suitable mechanical equipment.
- F. Protect:
 - 1. Protect adjacent and adjoining areas from hydro-seeding and hydro-mulching overspray.
 - 2. Do not seed in planter beds.

3.07 HYDROSEEDING

- A. Hydro seeding: Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydro seed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
 - 1. Mix slurry with nonasphaltic tackifier.
 - 2. Apply slurry uniformly to all areas to be seeded in a one-step process. Apply mulch at a minimum rate of 1500-lb/acre dry weight but not less than the rate required to obtain specified seed-sowing rate.

3.08 SODDING

- A. Lay sod within 24 hours of harvesting. Do not lay sod if dormant or if ground is frozen or muddy.
- B. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod; do not

stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to Subgrade or sod during installation. Tamp and roll lightly to ensure contact with Subgrade, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.

1. Lay sod across angle of slopes exceeding 1:3.
 2. Anchor sod on slopes exceeding 1:6 with wood pegs or steel staples spaced as recommended by sod manufacturer but not less than 2 anchors per sod strip to prevent slippage.
- C. Saturate sod with fine water spray within two hours of planting. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches (38 mm) below sod.

3.09 SATISFACTORY LAWNS

- A. Satisfactory Seeded Lawn: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 % over any 10 sq. ft. (0.92 sq. m) and bare spots not exceeding **2-inches by 2-inches**.
- B. Reestablish lawns that do not comply with requirements and continue maintenance until lawns are satisfactory.

3.10 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris created by lawn work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- B. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades throughout maintenance period and remove after lawn is established.
- C. Remove non-degradable erosion-control measures after grass establishment period.

END OF SECTION 02920