

General Work Included

1. Sodding and seeding of exterior areas disturbed by construction.
2. Work is typically funded by the construction project that caused the disturbance.
3. Typically performed by MUHC or MU Landscape Services.

Sodding

1. Furnish all labor, materials, tools, equipment, and services for sodding, as indicated, in accordance with provisions of contract documents.
2. Location of work: Establish sodding on areas indicated, which are not occupied by other planting or construction. Seed disturbed areas outside limits of construction.
3. Any Seeded area will use the following seed mix breakdown: [need breakdown]
4. All sod areas must be free of netting.
5. Completely coordinate with work of other trades.

Quality Assurance

1. Minimum standards: In accordance with American Sod Producers Association, (ASPA) “Guideline Specifications for Sodding” (ASPA-01), current edition.

Submittals

1. Project Information:
 - Certificates for sod stating botanical and common names and percentages of each species percentage of purity.
 - Sod labeled in accordance with ASPA-01 and equaling or exceeding specification requirements.
 - Fertilizer indicating chemical analysis.
 - Copies of invoices for fertilizer used on project, indicating grade furnished, to determine total quantity applied.
2. Contract Closeout Information:
 - Maintenance data.

Product Delivery, Storage, and Handling

1. Protect sod from drying out.
2. Deliver fertilizer to site in original unopened containers, labeled with manufacturers' chemical analysis.

Job Conditions

1. Perform sodding during conditions conducive to successful results.
 - Provide proper and adequate protection.
 - Do not lay on dried-out soil.
 - Do not place dried-out sod.
 - Do not lay when temperature is below 32 degrees F.
 - Do not lay on frozen soil.

Appendix C – MUHC Grounds Exterior Planting Requirements

- Do not place frozen sod.
 - Lay within 24 hours of stripping.
2. Actual dates for sodding will vary depending on construction schedule and pending weather conditions. Notify Architect of anticipated dates for doing work at least 30 days in advance.

Warranty

1. Remove and replace dead or dying sod during one year from substantial completion.
2. Replacement materials and methods identical to original.

Products/ Materials

1. General
 - Establish a smooth, healthy, uniform close stand of sod.
 - Materials:
 - Turf grass Sod:
 - i. Certified Approved Number 1 Quality/Premium, including limitations on thatch, weeds, diseases, nematodes, and insects, 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.
 - Turfgrass Species: Sod of grass species as follows:
 - i. Fine leaf Fescue Blend
 - ii. Not less than 95 percent germination.

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- iii. Not less than 85 percent pure seed.
- iv. Not more than 0.5 percent weed seed.
- Thickness of Cut: turf grass sod shall be machine cut at uniform soil thickness of 0.60 inch, plus or minus 0.25 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.
- Pad Size: Individual pieces of turf grass sod shall be cut to the supplier's standard width and length. Maximum allowable deviation from standard widths and lengths shall be plus or minus 0.5 inch on width and plus or minus five percent on length. Broken pads and torn or uneven ends will not be acceptable.
- Strength of Turf Sod Sections: Standard size sections of turf grass sod shall be strong enough that it can be picked up and handled without damage.
- Moisture Content: Turf grass sod shall not be harvested or transplanted when its moisture content (excessively dry or wet) may adversely affect its survival.
- Mowing Height: Before harvesting, the turf grass shall be mowed uniformly at a height of 2 to 2.5 inches.
- Time Limitations: Turf grass sod shall be harvested, delivered and installed/transplanted within a period of 24 hours, unless a suitable preservation method is approved prior to delivery. Turf grass sod not transplanted within this period shall be inspected and approved by the inspecting officer or his representative prior to its installation.
- Thatch: Turf grass sod shall be relatively free of thatch, up to 0.5 inch allowable (uncompressed).
- Diseases, Nematodes and Insects: Turf grass sod shall be reasonably free of diseases, nematodes and soil-borne insects. Specific nursery and/or plant materials laws may require that all sod entering inter-state commerce be inspected and approved for sale. The inspections and approval must be made by the appropriate government representative of the agriculture department or office of entomologist.

Appendix C – MUHC Grounds Exterior Planting Requirements

2. Fertilizer

- Commercial fertilizer analysis will be based upon a current soil nutrient test, meeting applicable requirements of State and Federal Law.

3. Water for Planting Purposes

- Supplied by Owner.
- Provide equipment necessary to transport water from source to required locations.
- Lay out temporary watering system and arrange watering schedule to avoid walking over muddy and newly sodded areas.
- Prevent puddling and water erosion and displacement of sod. Mow sod as soon as there is enough top growth to cut with mower set at recommended height for principal species and before height exceeds 3 IN.
- Repeat mowing as required to maintain height.
- Do not delay mowing until grass blades bend over and become matted.
- Do not mow when grass is wet.
- Time initial and subsequent mowing as required to maintain height of 2-1/2 to 3 IN.
- Remove no more than one-half grass leaf surface at any time. Re-sod bare, dead or dying areas using same materials specified.

4. Soil Requirements

- All sodded areas, shrub beds, tree plantings, and parking lot islands, will be excavated of fill dirt and back filled with dry screened topsoil.
- All topsoil will be approved and initialed by MUHC Grounds Department Supervisor.

- Topsoil will be back filled at the following depths:
 - Sod areas: Minimum 4” depth.
 - Shrub Beds: Minimum 18” depth
 - Tree Plantings: Minimum 36” depth
 - Parking lot Islands Minimum 36” depth

Plant Material Selection and Quality Control

1. All submittals of plant material shall be reviewed and approved by the MUHC Grounds Supervisor at design phase and at project implementation. Plant quality shall be consistent and is subject to approval by the supervisor. Work shall be inspected during and at final turnover to determine compliance with specifications. Inspection will be done by MUHC Grounds Department.
2. Exterior plants to be mid-Missouri native plants, with low maintenance. Locations identified for seasonal colors.

END OF SECTION