TURFGRASS HYDROSEEDING SPECIFICATIONS

Part 1: General
1.01 Scope of Work
Provide all materials, labor and equipment necessary to complete all work as shown on the drawings and as specified herein, including, but not limited to, the following:
- Apply specified treatments to all turfgrass areas as specified on the plans
- All other labor and materials reasonably incidental to the satisfactory completion of the work, including clean up of the site.

1.02 Site Conditions
It is the responsibility of the contractor to visit the site to determine existing conditions; including access, the nature and extent of existing improvements on the site and upon adjacent public and private property, and other factors that may affect the work of this section.

1.03 Submittals
The contractor shall submit letters of compliance, manufacturer’s literature, upon written request 10 working days in advance, samples for any of the following items:
1. Seed Mixes (or individual items)
2. Mulches
3. Binders/Tackifiers
4. Fertilizers

1.04 Work schedule
The contractor shall proceed with work during a period of ____________ through ____________. The work shall progress as soon as the site becomes available and conditions on site are suitable for work within limitations typical of the season.

1.05 Product delivery, storage and handling
1. All products shall be delivered to the site in manufacturer’s unopened standard containers bearing original labels showing quantity, analysis, and name of manufacturer.
2. All materials shall be stored in designated areas and in such a manner as to protect from weather or other conditions that might decrease the effectiveness of the product.
1.06 Analysis of samples and tests
1. Samples: The owner reserves the right to take and analyze samples of materials for conformity to the specifications at any time. On request, seed shall deliver to owner 30 days prior to seeding so seed can be tested. Seed samples shall be drawn in accordance with procedures outlined in AOSA, Association of Official Seed Analysts.
2. Rejected material: Rejected materials shall be removed immediately from the site at the contractor’s expense. Contractor shall pay the cost of testing replacement materials.

1.07 Final Acceptance and Warranty Period
Upon completion of specified work, the owner shall accept each area. The contractor shall not provide warranty beyond those granted by any of the material manufacturers. It shall be the right of the owner to inspect work for compliance to the specifications and advise the contractor, in writing, of any work that is found to deviate from specifications. After 60 days the contractor may apply to the landscape architect to have the turfgrass accepted for maintenance. The warranty period shall be 60 days after the acceptance date, and the lawn shall be acceptable when:

1. A healthy active turf provides at least 95% coverage with no bare area greater than 18 inches in diameter.
2. The turf has been mowed at least three times.
3. The grass cover is essentially free of weeds.

Part 2: Products

2.01 General
All products shall be in conformance with the specifications listed below. Any changes to products to be used shall be approved, in writing, by the owner or owner’s representative prior to job site delivery.

2.02 Seed Mixes
1. Composition:
   
<table>
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<tr>
<th>Lbs/Ac</th>
<th>Species (% by weight)</th>
</tr>
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</table>

   [ CONTACT Pacific Coast Seed INC ]

2. Quality: All seed shall be in conformance with the California State Seed Law of the Department of Agriculture. Each seed bag shall be delivered to the site sealed and clearly marked as to species, purity, percent germination, dealer’s guarantee, and dates of test. Prior to seeding at the request of the owner, the contractor shall provide a letter of certification and the original Association of Official Seed Analysts (AOSA) seed test results.
3.03 Mulch
Mulch shall be composed of cellulose or wood fiber products with no growth or germination inhibiting substances, and shall be manufactured in such a manner that when thoroughly mixed with seed, fertilizer, organic stabilizer, and water, in the proportions specified, will form homogeneous slurry which is capable of being sprayed to form a porous mat. The fibrous mulch in its air-dry state shall contain no more than 15% by weight of water. The fiber shall have a temporary green dye and shall be accompanied by a certificate of compliance stating that the fiber conforms to these specifications.

2.04 Organic Stabilizer/Tackifier
Shall be an organic substance supplied in powder form and shall be psilium-based and packed in clearly marked bags stating the contents of each package. The California Department of Food and Agriculture shall certify the material as an Auxiliary Soil Chemical.

2.05 Equipment
Equipment used for application of slurry shall be a commercial-type Hydro-Seeder and have a built-in agitation system with an operation capacity sufficient to agitate, suspend and homogeneously mix slurry. Tank capacity shall be a minimum of 1,500 gallons and shall be mounted on a truck to allow access to the site. Distribution Lines: Large enough to prevent stoppage and allow for even distribution of slurry over the site. Pump: Shall be able to generate 150 psi at the nozzle.

2.06 Fertilizer
Fertilizer shall be a starter derived from urea formaldehyde (N-P-K 6-24-24) and conform to the requirements of the California Food and Agriculture Code.

2.07 Water
Water shall be furnished by owner and shall be made readily available at the sites indicated on the project map.

Part 3: Execution
3.01 General
Areas to receive seeding treatments include all turfgrass areas as shown on the site plan, and other areas as determined by the owner.
Contractor shall be available to re-treat areas disturbed by ongoing activities.
Cost of retreatment shall be the responsibility of the owner.

3.02 Soil Preparation
1. Verify that all areas of turf seeding treatments are free of vegetation, and other objectionable material.
2. Verify that grades are final within standards specified.
3. All turf areas will be uniformly compacted.
4. Assuming that the results of a soil analysis have been integrated into soil preparation for horticultural suitability, no further soil amendments shall be required except as noted on site plan.

3.03 Seeded Turfgrass Areas
1. **Hydroseeding Preparation**: Do all slurry preparation at the job site:
   A. Water, mulch, fertilizer, binder and other ingredients shall be added to the tank simultaneously so that the finished load is a homogenous mix of the specified ingredients.
   B. Seed shall be added last and shall be discharged within 2 hours. Loads held over 2 hours will be recharged with ½ the seed rate before application.
   C. Once fully loaded, the complete slurry shall be agitated for 3-5 minutes to allow for uniform mixing.

2. **HydroSeeding Application**: **One Step Hydroseed**

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<thead>
<tr>
<th>Lbs/Ac</th>
<th>Material</th>
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<tbody>
<tr>
<td>2,000 lbs</td>
<td>100% Cellulose or Wood Fiber</td>
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<tr>
<td>500 lbs</td>
<td>Fertilizer (2.06 Fertilizer 6-24-24)</td>
</tr>
<tr>
<td>___ lbs</td>
<td>Seed as per section (2.02 Seed)</td>
</tr>
</tbody>
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   General:
   A. All hydroseed applications are to be applied in a sweeping motion to form a uniform application and form a mat at the specified rates.
   B. Unused Loads: If mixture remains in tank for more than 8 hours it shall be removed from the job site at contractor’s expense.
3. Reseeding: After “Final Acceptance”, reseeding will be done at the request of the owner and shall be considered extra.

3.04 Clean-up
1. General: All turf areas and staging areas shall be maintained in a neat and orderly condition. Keep paved area free of soil.
2. **Hydro-Seeding Overspray**: Installing contractor is responsible for washing or otherwise cleaning excess material off all area not intended to receive treatment.
3. Debris: Clean up and remove associated materials and debris from project site before Final Acceptance.

End of Section