This HydroTurf® Specification document has been prepared to provide the Owner, Design Engineer, Construction Quality Assurance Professional of Record, and the Contractor / Installer with a general guidance specification. All information, recommendations and suggestions appearing in this specification concerning the use of our products are based upon experience, tests and data believed to be reliable; however, this information should not be used or relied upon for any specific application without independent professional examination and verification of its accuracy, suitability and applicability. The independent professional shall edit this document to suit the site specific project design criteria. Since the actual use by others is beyond our control, no guarantee or warranty of any kind, expressed or implied, is made by Watershed Geosynthetics LLC as to the effects of such use or the results to be obtained, nor does Watershed Geosynthetics LLC assume any liability in connection herewith. Any statement made herein may not be absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. HydroTurf® product (US Patent Nos. 7,682,105, 8,585,322, and 9,163,375; Canadian Patent No. 2,663,170; and other Patents Pending) and trademark are the property of Watershed Geosynthetics LLC. Nothing herein is to be construed as permission to grant license or as a recommendation to infringe any patent.

Note to Author: This Specification should be edited in all places where it may be in conflict with other contract requirements. Specific areas of concern are highlighted throughout this document where site specific contract requirements may change. The engineer of record is responsible for ensuring this document conforms to all professional, contract and regulatory requirements. Please make any site specific changes, and then delete highlighted notes in the final issued specification.

SECTION 31 23 13

HYDROTURF® SUBGRADE PREPARATION

PART 1: GENERAL

1.01 SUMMARY

A. Section Includes:

1. Specifications for approved subgrade below the HydroTurf System.

1.02 RELATED SECTIONS

Select Appropriate Sections based on HydroTurf CS or HydroTurf Z

Section 01 42 00 - HydroTurf CS References and Definitions
Section 01 42 00 - HydroTurf Z References and Definitions
Section 01 73 19 - HydroTurf CS Structured Geomembrane Specifications
Section 01 73 19 - HydroTurf CS MicroSpike Geomembrane Specification
Section xx xx xx - HydroTurf CS Engineered Turf Specification
Section xx xx xx - HydroTurf Z Engineered Turf Specification
Section 03 49 01 - HydroBinder® Infill
Section 03 05 59 - Penetrating Catalyzed Colloidal Silicate Concrete Treatment for HydroTurf
1.03 REFERENCES

A. See Section 01 42 00 - References and Definitions

PART 2: PRODUCTS

Not Used

PART 3: EXECUTION:

3.01 EXAMINATION

A. Evaluation and Assessment:

1. Responsibilities for the approval and maintenance of the subgrade are as follows:
   a. OWNER’S REPRESENTATIVE:
      1.) Verify in writing that the surface on which the HydroTurf system will be installed is acceptable.
   b. INSTALLER:
      1.) Keep the accepted subgrade surface in a condition conducive to the deployment of all HydroTurf components.
      2.) Subgrade acceptance is determined when the deployment of the product, or its components, begins.
      3.) Maintain the previously accepted subgrade at or above the accepted condition.
      4.) Identify any part of the subgrade that becomes non-compliant to the specifications during the course of construction.
      5.) Ensure a timely submission to the OWNER’S REPRESENTATIVE of subgrade acceptance certificates.

3.02 PREPARATION

A. Surface Preparation:

1. Subgrade shall be smooth (free from ruts, depressions, etc.), uniform, firm and unyielding, and free from rocks, roots or other debris.
2. No rocks or protrusions greater than 0.75 inch in diameter will be exposed at
the subgrade surface.

3. Approved subgrade shall be capable of supporting the weight of the product, installation equipment, and maintenance equipment.

4. Daily evaluation shall be performed to show that no changes have occurred that would render the subgrade unacceptable.

**Engineer to specify compaction requirements**

5. Compaction requirements may be imposed by the Engineer as required for the project.

B. Non-Conforming Work

1. Subgrade not meeting specifications either before or during deployment of the HydroTurf, or its components, will be reported to the OWNER’S REPRESENTATIVE and corrected as required.

**END OF SECTION**