

**Section 02912 INSTALLATION GUIDELINES –
 STALITE INFILTRATION ROOT ZONE MEDIA FOR EVENT LAWN AREAS**

I. PART 1 – GENERAL

A. Provide a media using the three components below:

1. The Root Zone Media (RZM) shall be a special pre-mixed blend of 60% CA#9 graded Stalite Expanded Slate Aggregate and 40% approved sand-compost blend compacted to a minimum depth of eight inches.

CA#9 Expanded Slate	60%
USGA Root Zone mix *	30% typical
Certified Compost*	20% typical

2. Minimum finished depth shall be not less than 8” (eight inches) deep.
 a. Add 22% to the volume for loss due to compaction.

PART 2 – PRODUCTS

2.01 MATERIALS

A. CA#9 Stalite Rotary Kiln Expanded Slate Aggregate

CA#9 Expanded Aggregate	
Sieve Size	% Passing
#4	85-100
#8	10-40
#16	0 – 10
#50	0-5

B. USGA Root Zone Sand

1. Grain Size Distribution

Sieve Size	% Retained
2.00 mm	<3%
1-2 mm	10% max
0.5 -1 mm	45% max
.25 -.5 mm	35% - 75%
.15 -.25 mm	15% max
.05 - .15 mm	5% max

C. Compost

1. Compost must be certified and derived from a non-sewage sludge feedstock source. The addition of yard waste to the composting process must also meet certification requirements.
2. Finished compost must be screened to minus 1/2", protected, and free from any outside contaminants during and after screening and curing.
3. Metals and contaminants must meet or exceed US EPA Standard 40

PART 3 – EXECUTION

3.01 PROCEDURES

A. Root Zone Media (RZM)

1. When stockpiling the finished mix, cover the pile with a plastic tarp to prevent drying out or soil separation from rain.
2. Install the mix within 48 hours after receiving delivery.
3. Lay sod within 24 hours after placement.

3.02 PREPARATION

A. GENERAL

1. The contractor shall obtain necessary approvals before placing the event lawn root zone media (RZM)
2. The contractor shall use adequate numbers of skilled workmen who are thoroughly trained in the necessary crafts and are completely familiar with the specified requirements and methods needed for proper performance of the work in this section.

B. PREPARING SUBGRADE

1. The subgrade shall be prepared according to these procedures:
 - a. Excavate the area to provide for a 10" depth to receive the event lawn mixture to meet the required finished grade.
 - b. Remove all organic matter, debris, loose material and large rocks.
 - c. Dig out soft and mucky spots then replace with suitable material.
 - d. Loosen hard spots and uniformly level base soil.
 - e. Spread 2" of 100% Stalite 5/16" over the subgrade and till mechanically to a depth of 6" to provide a drainage layer.

- f. Grade and rake to provide consistent sheet drainage to the lowest point as shown on the grading plan.

C. PERFORATED UNDERDRAIN SYSTEM

1. The underdrain system shall be installed, included with sock or soil separator fabric, according to drawing and specifications, and connected to the storm drain.

3.03 PLACING ROOT ZONE MEDIA (RZM) BY CONTRACTOR

A. GENERAL

1. After the subgrade is prepared the RZM shall be placed in approximately 10 to 12 inch uniform lifts over the entire area of project and each lift compacted to provide a finished depth of 8" to 10". **Construction equipment, other than for compaction, shall not operate on the exposed RZM soil mix. Over-compaction should be avoided.**
4. Final compacted depth of the material shall be not less than 8" deep and meet final elevation to receive sod.
5. Irrigation systems are to be installed and tested **prior to the sod installation** to avoid disturbing the final compaction of the mix.

B. COMPACTING

1. Use of portable vibratory plate compacting machine (Recommended).
2. Place root zone media in horizontal lifts not exceeding 12 inches of compacted depth. Use a minimum of two passes, of not less than 10 seconds per pass, before moving the vibratory plate to the next adjacent location.

3.05 SOD INSTALLATION

- A. **Only sod grown in a sand base or sandy loam soil may be used in this application.**
- B. **Within 24 hours of RMZ compaction place sod directly on the soil mix as specified by the Landscape Architect. If the RMZ is disturbed re-compact as directed by the Landscape Architect.**
- C. **Irrigation management is important to prevent drying of the sod and establish the lawn.**

