



Eric Burnside <eburnsid@somsd.k12.nj.us>

BOSE - Drainage at Turf Field

1 message

Todd S. Waskowitz <TWaskowitz@spiezle.com>

Fri, Mar 15, 2024 at 5:12 PM

To: Eric Burnside <eburnsid@somsd.k12.nj.us>

Cc: "Scott E. Downie" <ScottD@spiezle.com>, "Kathleen Tartaglia, AIA, LEED AP" <ktartaglia@epicbuilds.com>

Eric – in response to the request, below please find a narrative on the stormwater management for the proposed Project (Ritzer) from CME Associates (site/civil engineer for the Project).

Please let me know if you have any questions.

Improvements to Ritzer Field Stormwater Design

1. Design Standards: The project has been designed consistent with the Township's Stormwater Management Ordinance. As the project proposes ground disturbance in excess of one (1) acre, it is classified as a "major" development. To ensure downstream stormwater systems or neighboring properties are not negatively impacted by developments, the Ordinance requires that post-construction stormwater runoff rates be reduced to no more than 50%, 75%, and 80% of the 2-, 10-, and 100-year theoretical storm events, respectively, when compared to the pre-construction condition. Requirements for stormwater quality improvements are not applicable to this project as no new impervious motor vehicle surfaces (parking lots, roads, or driveways) are proposed. Furthermore, the project is exempt from groundwater recharge requirements as the site is located in State Metropolitan Planning Area #1.
2. Function: Precipitation falling on the field will percolate through the highly permeable synthetic turf carpet/infill and into a subsurface detention bed consisting of a layer of crushed stone and perforated drain pipes. This layer provides adequate storage within the voids of the stones to attenuate high intensity rainfall events while simultaneously allowing runoff to infiltrate into the subsoil. The bottom of the stone layer is sloped toward an outlet control structure manhole which includes multiple drain holes and weirs designed to discharge the stored runoff at a controlled rate to comply with the required flow reductions. The overflow manhole is proposed to tie directly into an existing storm sewer main that runs beneath the property to ensure that no additional runoff is directed into adjacent streets or neighboring properties.

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