

Engineering has reviewed the plans for the Peace Baptist Church project submitted February 27, 2019 and have the following comments:

Stormwater Management Permit Application Form

1. IV. Project Information; #9: Pervious Pavement is being proposed. Enter '100' next to the '% credit applied'. Also enter 0 (9,124) for the square footage of PC.

Supplement –EZ Form

2. Note only: Permeable Pavement MDC from 02H .1055; #13: An in-situ infiltration permeability test shall be conducted and certified on the pavement after site stabilization. The City will not enforce this requirement, but it is a NCDEQ requirement. You may want to perform the test for state compliance.

Calculations

3. Provide stone base calculations per MDC 5.
4. Provide a drawdown time calculation per MDC 8 to show that the design volume will drawdown in less than 72 hours.

Plans

5. The sidewalk doesn't extend past the last parking space to the west. Why is this?
6. Provide spot elevations on both sides of sidewalks for constructability purposes.
7. The sidewalk along the western side of the proposed building doesn't show any spot grades. Please add spot grades.
8. Add the boring locations to the plan. Label the existing grade elevation at the boring location, depth to seasonal high and the elevation of the seasonal high.
9. If you wanted to reduce impervious a bit, the backing stub only needs to be 10'x15' per SD 15-12. Reducing the size of the backing stub would free up some impervious surface area to extend the sidewalk past the last parking space mentioned in an earlier comment.
10. Please add a callout for the permeable concrete border. It is shown on the site plan, but I would like there to be a label so it isn't missed by the site contractor.
11. Add language to the Construction sequence that addresses the installation of pervious concrete and the need to prevent compaction of the subgrade and clogging of the pavement surface. See the Permeable Pavement section in the SW Design Manual.

Please submit one complete set of plans, the storm application, supplement, calculations and any other supporting documentation to Engineering for additional review. Please call or email if there are any questions. Thank you.