

Engineering has reviewed the plans for the Trolley Station project submitted December 20, 2018 and have the following comments:

#### **Stormwater Management Permit Application Form**

1. III. Contact Information: #1.b: Will Bailey and Associates eventually be the property owner? If so, the application can be filled out as if the transaction has occurred and they are now the property owner.
2. IV. Project Information; #9:
  - a. Impervious breakdown does not equal the total impervious surface.
  - b. To the right of the zero (0) for pervious pavement, please add the square footage of the pervious pavement in parentheses just to show the square footage of the pervious being installed. Do not add to impervious numbers.
3. IV. Project Information; #10: Update #10 based on #9.
4. IV. Project Information; #13: Update #13 based on #9.
5. IV. Project Information; #14:
  - a. Enter zero (0) for both the Pervious Pavement amounts. You can put 2,372 and 2,114 in parentheses to show the square footage of each, but it should not count towards the impervious percentage. Example: 0(2,372)
  - b. Update the Percent Impervious Area, 4% and 24%, respectively.
6. VI. Consultant Information and Authorization: Update the consulting engineer since Elizabeth Nelson is leaving the firm.

#### **Stormwater Calculations**

7. Cover Page: Will need the Engineer's seal updated.
8. Infiltrating Permeable Design – SCM 1 and 2: Re-work the calculations treating the parking as pervious. Design volume becomes way less.
9. Was DI #3A left out intentionally from the drainage area exhibit and the storm drain calculations? Or was it added post-calcs and needs to be added? Please clarify. I would prefer it be added.
10. DI #10 rim is not consistent from calcs to plans.

#### **Supplements**

11. Update the supplements to count the parking as pervious.
12. Update minimum volume required.
13. Revise design volume of SCM. Should be the volume provided by the voids in the #57 washed stone.
14. #6: There is no method for dewatering this type of SCM. Leave blank.

#### **Construction Plans**

15. Please provide the Utility Plan for review.
16. Existing Conditions (VF -100):
  - a. Please provide existing contours (1' interval). Spot grades are acceptable if this site has low relief.
  - b. Add the boring locations to this plan sheet. Specify the existing grade elevation, depth to SHWT and the SHWT elevation.
17. Stormwater and Grading Plan:
  - a. Make the spot grades for the swales more discernible.
  - b. Is the rim elevation for DI #3 a little high at 25.25'? The existing contours in close proximity to it show elevations of 25'. Concerned there could be standing water. Please look at this.
  - c. Show the footprint of the pervious concrete.

18. Site Details: Add a swale detail for constructability of the roadside swales.

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