

Engineering has reviewed the plans for the Seahawk Cove project submitted March 24, 2016 and have the following comments:

**Stormwater Management Permit Application Form:**

1. IV. Project Information; Line Item #12: Please complete this section for the small amount of impervious being constructed in the Kerr Avenue right-of-way. Line Item #13 will need to be revised as well.
2. IV. Project Information; Line Item #14: Please add the BMP # for #2 and #3 at the top of the Basin Information chart.
3. IV. Project Information; Line Item #14: BMP #4 is missing the stream name, index number and classification.

**Stormwater Calculations:**

4. The 2-year post-development rate exceeds the 2-year pre-development rate. Please revise.
5. Pre-development DA is 2.03 acres. Post-development DA equals 1.47 acres. Pre DA must equal Post DA. Please revise calculations.
6. Please provide stormdrain calculations for the 50-year design storm to check for flooding per the TSSM.
7. Infiltration System – BLDG 1 – BMP #2: The trench dimensions on this page do not match the trench dimensions on sheet C-7.1. Please clarify. Also verify the limiting width on the Contech sheet is correct.
8. BMP #2 2-5 day drawdown: Verify SHWT and Trench Invert.
9. Infiltration System – BLDG 2 – BMP #3: There seems to be a discrepancy between the trench depths listed on this page and sheet C-7.1. Please clarify. Also verify the limiting width and effective depth below asphalt on the Contech sheet is correct.
10. Please provide drawdown calculations for BMP #4 (Open Basin).

**Supplements:**

11. Infiltration System #1; Trench Elevations; Top Elevation: Should be 39.78'? ( $37.45' + 2.33' = 39.78'$ )
12. Infiltration System #1, #2, #3; Additional Information: Bottom covered with 4-in. of clean sand: Please verify the use of clean sand.
13. Infiltration System #1, #2, #3 & #4; Additional Information; Pretreatment device provided: please list pretreatment provided.
14. Infiltration System #2; Trench Elevations; Top Elevation: Should be 38.09'? ( $36.67' + 1.42' = 38.09'$ )
15. Infiltration System #3; Trench Elevations; Top Elevation: Should be 39.92'? ( $38.50' + 1.42' = 39.92'$ )
16. Infiltration System #4: The percent impervious reads as 0.47%. Please revise.

**Plans:**

17. Cover Sheet: Proposed Walks BUA in Site Data Table and Total BUA doesn't match application. Please clarify.
18. Sheet C-3: Please add building footprint square footages.
19. Sheet C-4.1 (Drainage Area Plan): It appears that a portion of the drainage area for the open basin is actually being collected in the drop inlet for BMP #2. Please clarify.

20. Sheet C-4.1: It appears that the drop inlet will collect some runoff that will increase the drainage area of the infiltration system. Please clarify.
21. Sheet C-4.1 (Drainage Area Plan): There appears to be a discrepancy between the BMP #4 drainage areas listed on the plan sheet and the application (24,389sf v. 25,101sf). Please clarify.
22. Sheet C-4.1 (Drainage Area Plan): The slope for pipe P-1 is listed as 1.82%, but calculations list it at 0.89%. Please clarify.
23. Sheet C-7.0: 12" Concrete header curb can be revised to a 6" wide curb that extends to the bottom of the 6" of washed #57 stone – a 6" x 12" header curb. My previous comment for a 12" header curb was poorly communicated to you, my apologies.
24. Sheet C-7.1: Verify dimensions of infiltration trenches with calculations.
25. Sheet C-7.1: Add overflow with elevation to BMP #4 detail.

Please submit one complete set of plans, calculations, and any revised documentation to Engineering for additional review. Please call or email if there are any questions.