

Engineering has reviewed the plans for the Sea Sell Auto project submitted March 29, 2016 and have the following comments:

Stormwater Narrative:

1. Verify the receiving stream name. Our records indicate this project will drain to Spring Branch, Index No. 18-74-63-1, Classification: C;Sw.

Stormwater Management Permit Application Form:

2. IV. Project Information; Line Item #14: Receiving stream name, index number and classification may need to be revised.

Infiltration Trench Maintenance and Operation Agreement:

No comments

Stormwater Calculations:

3. Please provide the runoff coefficient calculations for the pipe calculations and infiltration trench routing.
4. Please revise the 100-yr rainfall intensity for the pipe calculations...should be 9.60 in/hr.
5. Please provide a summary showing the results of the pre/post requirements.
6. Please provide ED calculations for the 15" RCP. Also verify the length of the ED. The plans list 10' and the calculations list 12'.
7. Are there any calculations/dimensions for the ED that allows the runoff to enter the open basin?
8. The C-value for predevelopment for sandy soils per the TSSM is a minimum of 0.10 and a maximum of 0.15 for sandy soils. Please revise your C-value unless a soils report shows that the site has clay soils, then a value up to 0.20 would be acceptable.
9. Please provide the curve number calculations.
10. The TSSM requires the facility be designed for the runoff produced from the 10- year storm and checked for the 50-year storm. Please add the 50-year storm to the calculations for completeness purposes.
11. Please provide the soil types, infiltration rates and the seasonal high water table determination to ensure the design meets the necessary requirements of the TSSM and the BMP manual.
12. Please provide drawdown calculations for the infiltration trench.
13. Please show how the requirements of 16.3.9 in the BMP manual are met.
14. Please include the open basin in your routing calculations. I would like to see how the open basin may interact with such a long and flat pipe connecting it to the infiltration trench. May need to show interconnection between the basin and the trench. What happens if the 12" pipe were to clog? Does the open basin need an emergency overflow?

Plans:

15. Please add the square footage of the infiltration trench drainage area to the DA Map. Can you change the DA label from "DA to Basin" to "DA to Infiltration Trench"? Basin is misleading. One might think everything is supposed to drain to the basin at the rear of the property.

16. Please delineate and label with square footages the individual drainage areas for CI#1 and the basin at the rear of the property on the DA map.
17. The basin at the rear of the property is located near a well house. The stormwater BMP manual states that the design must be located a minimum of 100 feet from water supply wells. What does the well supply water for?
18. Please show basin grading tied into the existing grade.
19. Is the basin just for storage and not infiltration? Does the basin have an overflow outlet?
20. Please add some type of flared end section/ED for the 12" pipe.
21. Please add the lengths of the 12" pipe to the plans.
22. Is another cleanout necessary with such a long flat span under the asphalt?
23. What is the purpose of the bottom viewport on sheet C-6? Please delete if not needed.
24. It would appear that the 18" driveway culvert is flowing in the wrong direction. Please verify.
25. Please add proposed spot elevations along the proposed sidewalk and along the western edge of the entrance.
26. Please add the FFE of the future building to the plans. Also add spot elevations to the asphalt near the future building.
27. It appears that the handicapped parking at the front of the building is higher than the FFE of the building directing runoff towards the building. Please verify.
28. Please add a detail or notes to the plans addressing the construction of the open basin (side slopes, sodding, the ED, etc.).
29. Please label the open basin on the plans.

General:

30. Please submit a Supplement for the infiltration BMP.
31. **Note only:** If the basin at the rear of the property is to be used for sedimentation and erosion control during construction, it must be cleaned out and returned to its design state.

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