Nitsch Engineering

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September 1, 2017

Mr. Craig Dixon
Chairman
New Bedford Conservation Commission
New Bedford City Hall
133 William Street
New Bedford, MA 02744

RE: Nitsch Project #9972
61 John Vertente Boulevard
New Bedford, MA

Dear Mr. Dixon:

This letter is in regards to the proposed project located at 61 John Vertente Boulevard in New Bedford, Massachusetts. Nitsch Engineering has reviewed the following documents for compliance with the Massachusetts Department of Environmental Protection (MassDEP) Stormwater Management Standards:

- Plans entitled, "Site Plan, 61 John Vertente Boulevard, Assessor's Map #133 Lot #47, New Bedford, Massachusetts," prepared by Farland Corp., dated August 10, 2017; and
- Notice of Intent entitled, "Site Plan, Assessors Plot 133 – Lot 47, 61 John Vertente Boulevard, New Bedford, Massachusetts," prepared by Farland Corp., including stormwater calculations, dated August 10, 2017.

This project includes the construction of additional parking and a proposed stormwater basin. Below are our comments on the proposed project regarding stormwater management only:

1. The site includes C and D soils. The area of the proposed work is in D soils. Therefore, groundwater recharge is not required.
2. The proposed culverts underneath the proposed driveway in the area of wetlands fill do not have sufficient cover. We recommend these culverts be revised to ductile iron pipe to provide additional cover.
3. The proposed design does not include any pretreatment prior to discharge to the proposed stormwater basin.
4. It does not appear that test holes have been performed in the vicinity of the proposed stormwater basin. Test holes should be performed to verify seasonal high groundwater elevation.
5. The existing conditions and proposed conditions drainage areas are slightly different.
6. The time span used in the existing conditions hydrologic calculations is different than the time span used in the proposed conditions calculations. The time spans should be the same.
7. The Total Suspended Solids calculations do not include the proposed gravel parking area.
8. The project includes the filling of 700 square feet of wetlands and 930 square feet of replication.
9. We recommend that rip-rap be placed on the downstream end of the overflow weir.

10. It is unclear how the extents of the drainage analysis were determined. For instance, the large parking lot on the west side of the site was included in the analysis but the stormwater basin and the areas contributing to it were not. Both areas discharge to the drainage swale.

11. The relocated fuel tank appears to have been placed on the side slope of the existing stormwater basin. We recommend it be moved to a flatter area.

12. The applicant should provide calculations documenting that the existing piping system in the existing parking lot can accommodate the additional flows generated by the new pavement. Pipe sizing calculations should be provided.

13. We understand that the limits of the existing wetlands on site need to be verified. If the limits of the wetlands are expanded, it could impact the design of the 'infiltration' basin as well as expand the 25-foot buffer to wetlands.

14. We recommend that spot elevation be provided on the grading plan consistent with the top of berm elevation shown on the details.

If you have any questions, please call us at 617-338-0063.

Very truly yours,

Nitsch Engineering, Inc.

Scott D. Turner, PE, AICP, LEED AP ND
Director of Planning

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