



Proactive by Design

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MANAGEMENT

190 Old Derby Street
Suite 210
Hingham, MA 02043
T: 781.278.4820
F: 781.749.2751
www.gza.com



June 28, 2017
Project NO. 18.0173002.00

Via Email

Braintree Planning Board
1 JFK Memorial Drive
Braintree, MA 02184

RE Peer Review Comment Letter
Braintree Athletic Center
128 Town Street, Braintree, MA

Dear Board Members:

This letter presents the results of GZA GeoEnvironmental, Inc. (GZA) review of the updated site plans last revised May 16, 2017 and the updated Stormwater Management Report last revised May 16, 2017 submitted for the subject project. The revised plans and Stormwater Management Report were reviewed with respect to the applicable sections of the Town of Braintree Subdivision Rules and Regulations, Braintree Zoning Bylaw, Massachusetts Department of Environmental Protection (DEP) Stormwater Management Standards and prior comments on earlier submittals.

The following presents GZA's outstanding review comments on the revised site plans and the Stormwater Management Report:

SITE PLANS

1. Decorative safety bollards should be considered for the entrance plaza area to prevent vehicle intrusions.
2. An Erosion Control Plan should be added to the plan set which could also be used to delineate the demolition work.
3. The existing 12" drain line located along the south side of the new building should be removed. The plans should indicate the removal of the drain pipe.
4. A 10-foot separation should be provided between proposed drain and sewer pipes. If the drain and sewer pipes are to be installed as proposed then, the drain pipes should have water tight gaskets and water stops should be installed in the sewer pipe trench to prevent the migration of sewage through the backfill material to the drain headwall and wetlands in the event of a sewer pipe leak or failure.
5. The proposed subdrains around the proposed infiltration basins will likely divert the water infiltrated by the basins and possible increase post development stormwater runoff rates. If a backup subdrain is proposed it should be installed in accordance with Structural BMP specifications in Volume 2 Chapter 2 of the DEP Stormwater Handbook.
6. All proposed sidewalk ramps should be shown on the plans.



7. The existing crosswalk at the east end of the entrance plans should be replaced and shown on the proposed plans.
8. Plans should call for the removal of loamy and high silt content soils within infiltration basin areas.
9. Means to prevent clogging of 4" and 6" diameter inlet pipes in the three parking lot infiltration basins should be provided considering the amount of landscaping proposed in the basins.
10. The landscaping plans should be revised to reflect revised layout of parking area infiltration basins.
11. Two test pits labeled LDG-05 are shown on the plans. Based on site observations, it appears the test pit over the swale near the existing soccer field is not the correct location for test pit LDG-05.

STORMWATER MANAGEMENT REPORT

12. As required by the Massachusetts Department of Environmental (DEP) Protection Stormwater Standards (Stormwater Standards.) a Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan (CPPP & ECP) should be submitted.
13. Drain pipe sizing calculations should be provided for all the proposed drain lines.
14. Reach 42R of the drainage calculations is causing a reduction in the runoff rates. Reach 42R is a 15" diameter pipe which appears to be undersized. The pipe should be sized to eliminate its impact on the calculated flows.
15. Based on site observations of the wooded areas in the existing watershed areas E1 and E2, and NRCS guidance, the cover condition used to determine the Curve Number (CN) for these wooded areas should be "woods good".
16. The storage volumes used in the drainage calculations for the three parking lot infiltration basins should be updated for the revised configuration of the basins.
17. The volume calculations for the Recharge and Water Quality Volumes provided by the infiltration basins should be submitted. It appears that the provided volumes do not account for the 4" outlets in the basins.

Should any of the Board Members have any questions on the information presented in this letter, please feel free to contact me at (781) 278-4821 or peter.williams@gza.com.

Sincerely,

GZA GeoEnvironmental, Inc.

A handwritten signature in black ink that reads "Peter J. Williams".

Peter J. Williams, P.E.
Senior Project Manager

cc: Daniel Campbell, P.E., Level Design Group