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September 12, 2019

Mr. Paul Foley, ACIP
Director of Planning & Economic Development
Planning & Economic Development
Town Hall
40 Center Street
Fairhaven, MA 02719

RE: 46 Charity Stevens Lane Solar Project, Fairhaven, MA.
(Map 40, Lot 8), Site Development Plans
Stormwater Management Plan (SMP) Review.

Dear Mr. Foley:

GCG Associates, Inc. has reviewed the following information for the Site Development Plans for 46 Charity Stevens Lane Solar Project, in Fairhaven, MA with respect to stormwater and Wetland related requirements under Chapters 192, 194, 198-31.1.

Plan References: "Site Development Plans, 46 Charity Stevens Lane, Fairhaven, MA prepared by Atlantic Design Engineers, Inc. dated August 23, 2019, consists of:
Sheet 1 – Cover Sheet
Sheet 2 – Overall Existing Conditions Plan
Sheet 3 – Overall Site Development Plan
Sheet 4 – Site Development Plan
Sheet 5 – Site Development Plan
Sheet 6 – Details Plan

Documents: Stormwater Report, 46 Charity Stevens Lane Solar Project, Prepared by Atlantic Design Engineers, Inc. dated August 23, 2019.

Based upon our review of the above information, we offer the following general comments and comments with respect to compliance with Town Bylaws: Chapters 192 – Wetlands; 194 - Stormwater Management, Illicit Discharge, Soil Erosion, Sediment Control By-Law; 198-31.1 – Zoning - Stormwater Management. The numerical section of the regulations is referenced at the beginning of each comment unless it is a general comment.

GENERAL PLAN AND DEVELOPMENT COMMENTS

Site Background: This is solar frame site development project. The site has been improved with a single-family dwelling, two greenhouses, a barn, a garage and several farm related structures and connected with several gravel driveways. The property consists of 46+/- acres and is currently set up for a residential home with a nursery and landscape business. The applicant is proposing two solar photovoltaic arrays on the eastern and western sides of the property with a combined area of 10.3+/- acres. The existing conditions plan shown wetland resource area on the northwest and west portion of the parcel and four isolated wetlands on the center portion of the site.

The following are general comments with respect to the plans and development of the project.

1. 192-4 - A Wetland Notice of Intent filing is required. Wetland delineation as shown is subject to Conservation Commission approval.
2. 194-7 - The proposed work exceeded the 40,000 square feet land disturbance in area threshold and requires a Land Disturbance permit with the Fairhaven Board of Public Works.
3. This project requires a National Pollutant Discharge Elimination System (NPDES) permit. A NPDES Notice of Intent with EPA should be filed 14 days prior to construction start, an associated Stormwater Pollution Prevention Plan (SWPPP) is required with the filing.

Plan:

Sheet 1 – Cover Sheet

1. No comments.

Sheet 2 – Overall Existing Conditions Plan

1. The wetland resource areas as shown requires Conservation Commission approval.

Sheet 3 – Overall Site Development Plan

1. GCG recommends additional temporary erosion control barrier be placed at the southeasterly corner of the eastern solar arrays during construction.
2. Revise western solar arrays stone trench sizes per stormwater report comments.

Sheet 4 – Site Development Plan

1. See Stormwater Report comments.

Sheet 5 – Site Development Plan

1. No comments.

Sheet 6 – Details Plan

1. No comments.

STORMWATER REPORT COMMENTS

1. Required Recharge Volume – The proposed new impervious area in Subcatchment area 1S is located within the Hydrologic Soil Group (HSG) 'A'. Therefore, the recharge volume should be 0.6 inches of the new impervious area. The required recharge volume

should be 55 cubic feet. Please revise the size of the infiltration trench to provide the 55 cubic feet storage volume.

2. Long term Operation and Maintenance plan should include inspection and maintenance (mowing and repair) of the seeded area between solar arrays. An operator signature block and estimated annual O&M budget should be included in the O&M Plan and a sample O&M log.

Summary:

The proposed drainage design meets the MassDEP DWW Policy 08-1 (BWR/WWP 17-1), a policy developed for solar photovoltaic development and the Fairhaven Stormwater Management requirements with minor adjustment required as commented above.

If you have any questions regarding this matter, please contact our office.

Respectfully Submitted,
GCG Associates

Michael J. Carter

Michael J. Carter, P.E.
Project Manager