

AN EROSION PREVENTION AND SEDIMENT CONTROL PLAN

FOR THE PROJECT AT:

29 Starr Farm Beach Road

HAS BEEN FILED WITH THE CITY OF BURLINGTON
STORMWATER MANAGEMENT PROGRAM IN ACCORDANCE
WITH CHAPTER 26 OF THE BURLINGTON CODE OF ORDINANCES

THIS REQUIRES THAT MEASURES BE INSTALLED OR TAKEN TO
PREVENT SEDIMENT FROM LEAVING THE SITE AND ENTERING
WATERWAYS AND IMPACTING CITY INFRASTRUCTURE
(RIGHT OF WAY AND STORMDRAINS)

FOR QUESTIONS OR TO REPORT SEDIMENT LEAVING THE SITE
CALL 802-863-4501

This notice to be posted in full view at all times during earth
disturbance. Additional conditions on attached.

Plan Approved by: Jenna Calvi
Burlington Stormwater Program

Digitally signed by Jenna Calvi
DN: cn=Jenna Calvi, c=US, o=City
of Burlington, ou=Department of
Public Works,
email=jcalvi@burlingtonvt.gov
Date: 2017.01.20 10:44:56 -0500'

Date: 1/20/2017

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JAN 20 2017

DEPARTMENT OF
PLANNING & ZONING
Nov 2015 (standard form ver.4)



Burlington Department of Public Works
Stormwater Program

234 Penny Lane (Water Plant)

Burlington, VT 05401

PH: 802-863-4501 Email: stormwater@burlingtonvt.gov

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Standard Erosion Prevention & Sediment Control (EPSC) Plan

This questionnaire and associated EPSC plan sheets are required for projects

- on properties other than single family (R1) or duplexes (R2) that require a level II or III Certificate of Appropriateness or Major Impact zoning applications and involve 5000 sq. ft. or more of earth disturbance; or
- any activity where a zoning permit is not required but where the project involves 10,000 sq. ft. or more of earth disturbance; or
- if requested by the Stormwater Program due to project characteristics such as slope, soils or proximity to drainage structures or waterbodies.

Please note that you must submit EPSC plan and detail sheets as outlined in section A below.

All projects involving redevelopment or addition of impervious surface must submit the stormwater management screening project (attached) for evaluation or meet with the Stormwater Program to determine the stormwater management requirements for your project.

1. Project Location 29 STARR FARM BEACH RD

2. Zoning Permit Address (if different from above): _____

3. Brief Project Description (i.e. building construction, subdivision, site work)

CONSTRUCTION OF A STONE SEAWALL WITH RIP-RAP SLOPE
PROTECTION AND REPAIR OF EXISTING METAL STAIRS

4. Owner Name: STARR FARM BEACH ASSOCIATION, C/O JEFFREY NOWELL, TRUSTEE

5. Owner Mailing Address: PEOPLES UNITED BANK, PO BOX 820, BURLINGTON, VT 05402

6. Owner Phone: 802-660-2152 6. Owner email: jeffrey.nowell@peoples.com

7. Contractor Name: ENGINEERS CONSTRUCTION, INC. Contractor not known at this time

8. Contractor Phone: 802-863-6389 9. Contractor Email: alan@ecivt.com

10. Estimated Project Start Date 2/15/17 Estimated End Date 3/15/17

11. Area of Land Disturbance 370 sq. ft.

12. Total proposed (existing + new) amount of impervious: 2,473 sq. ft.

14. Does your project require a State Construction Stormwater Permit (9020 or INDC)? Yes No
(You will be required to submit proof of your authorization to discharge prior to initiation of earth disturbance).

A. REQUIRED PLAN SHEETS:

15. Plan sheet(s) MUST BE ATTACHED showing the following:

- Limits of disturbance
- Location of stockpiles (if any)
- Location of stabilized construction entrances
- Phasing plan (if appropriate)
- Direction of stormwater flow on site
- Location of sediment control BMP's (silt fence etc.)
- Stabilization measures

*impervious = any surface off of which water runs off rather than infiltrates, including, but not limited to rooftops and paved/unpaved (gravel/packed dirt) driveways, walkways and patios

16. Detail sheet MUST BE ATTACHED and include details for all EPSC measures listed on the EPSC Plan Sheet. Additionally, notes must be included related to:

- Daily inspection of roadways and sweeping as necessary
- Dewatering measures (if applicable)
- Temporary site stabilization requirements
- Final site stabilization requirements
- Winter site stabilization (for disturbance after November 1)
- Inspection requirements

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B. EPSC QUESTIONNAIRE (See last page for typical solutions to these questions)

A) Do you anticipate the need for any dewatering of excavations during the construction? Yes No

- If yes, please indicate which plan sheet has details for how dewatering operations will be managed to prevent the discharge of sediment laden water. Sheet(s): _____

B) Will excavated soil be stockpiled on the site? Yes No If yes, show locations and EPSC measures for the stockpile on plan sheet(s)

- If no, where is the ultimate disposal of excess soil? EXCESS SOIL WILL BE TRUCKED TO ECI'S RECYCLING FACILITY.

C) Do you plan to park construction vehicles on or disturb City owned property like the greenbelt area? Yes No

- If yes, tell us how you agree to repair all disturbances or damage to City owned property and provide a written approval from the City allowing construction vehicles to park on City owned property.

- If no, then please monitor all construction and visitor vehicles and advise all not to park on City owned property.

D) Will stockpiles or disturbed soils be present and/or exposed after Nov. 1st of any construction year? Yes No

- If yes, tell us how you plan to stabilize any stockpile and/or disturbed soils.
THE WORK IS ANTICIPATED TO BE COMPLETED IN WINTER. EXPOSED ERODIBLE SOILS WILL BE REQUIRED TO BE STABILIZED WITH TARPS, EROSION MATTING, OR HEAVY MULCH IF RAIN IS ANTICIPATED WITHIN 24 HOURS OR IF THE SITE WILL BE INACTIVE FOR MORE THAN 24 HOURS.

Do you agree to abide by the following conditions?

N Applicant will call 863-4501 or email gjohnson@burlingtonvt.gov at least 24 hours prior to initiating earth disturbance and submit the name and contact (cell phone and email) of the erosion control coordinator for the project

N Applicant will post the attached notice in a visible location

N I acknowledge that it is the responsibility of the owner and his/her representatives to ensure that:

- o sediment does not enter surface water bodies (streams, ditches, ponds, lakes, wetlands etc.)
- o sediment does not enter City conveyance infrastructure (catch basins, sewers etc.) and
- o All sediment must be removed from the city ROW (sidewalks and roadways) by the end of each work day.

N Sediment control measures will be installed prior to the initiation of earth disturbance.

- N During the non-winter construction season (April 15 – November 1): After an initial **14 day** period of initial disturbance, temporary or permanent stabilization (mulching, erosion control matting or tarps for stockpiles, or other approved method) of exposed areas and stockpiles will occur at the end of each work day unless:
 - o Earthwork is to continue in the area within the next 24 hours **and** there is NO liquid precipitation forecast for the next 24 hours; or
 - o If work is occurring in a self contained excavation (no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation or utility trenches).
- N During the winter construction period from November 1 to April 15, any **new disturbance** must be temporarily or permanently stabilized (mulching, erosion control matting or tarps for stockpiles, or other approved method) will occur at the end of each work day unless:
 - o Earthwork is to continue in the area within the next 24 hours **and** there is NO liquid precipitation forecast for the next 24 hours; or
 - o If work is occurring in a self-contained excavation (no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation or utility trenches)
- N The perimeter of the site and all BMPs will be inspected at the **end of each workday** to ensure that sediment will not leave the site. If sediment has travelled beyond the site boundary, it shall be swept up or otherwise removed and deposited on-site in an upgradient area at the **end of each work day**.
- N The owner and his/her representatives shall abide by the best management practices (BMPs) indicated in this plan and conditions and in the Vermont DEC Low Risk Site Handbook for Erosion Prevention and Sediment Control (2006). Contact 802-863-4501 for a hard copy or go to the web:
http://vtwaterquality.org/stormwater/docs/construction/sw_low_risk_site_handbook.pdf
- N If soils will be exposed after November 1st and winter construction has not been permitted the project will notify DPW prior to October 15th **and** ensure that sediment control is installed **PRIOR** to soil freezing. If the project is completed during the winter months, an additional inspection will be required to ensure that the site is buttoned up for the winter.
- N Within 48 hours of reaching final grading, the exposed soil will be seeded and mulched or covered with erosion control matting (for slopes steeper than 3:1 or high wind prone areas). Erosion control matting is preferred.
- N The owner will contact DPW to schedule a stabilization inspection when site work is finished and stabilization measures (seeding and mulching or matting) have been installed.

AGREEMENT

By filling out and signing this plan, I agree to abide by the terms and conditions outlined above. Failure to follow this plan can result in a stop work order by the City of Burlington, fines, or both.

By: Owner Contractor

Engineers Construction Inc

Name

Signature

Chris P. V.P.

Date

1/19/17

Additional Conditions of Approval:

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TYPICAL SOLUTIONS TO PREVENT OR CONTROL SEDIMENT AND EROSION

STOCKPILES

- Cover small stockpiles with a tarp when not being used.
- Install silt fencing or other appropriate devices around the stockpiles to filter sediment.
- Cover stockpiles with straw or other approved mulching material.
- Plan to remove any unusable material as soon as possible from the site to an approved location.
- Plant grass and mulch stockpiles that will be on site for more than 14 days.
- Cover, vegetate or install erosion matting on stockpiles that will remain disturbed over the winter.

DISTURBED AREAS

- Maintain vegetated buffers around disturbed areas.
- Install silt fencing or other appropriate device to filter sediment washing off from disturbed areas. Remember that the bottom of the silt fence must be “keyed in” (dug into ground) to work correctly.
- To prevent sediment from running off your site via your driveway (or other paved areas where you can’t install silt fence) use a row of hay bales or tube sand.
- Cover disturbed areas as soon as possible with straw or other approved mulching material. Use erosion control matting in high wind, traffic or slopes steeper than 3:1 (horizontal to vertical), and follow the manufacturer’s guidelines staple the matting down.
- Plant grass and mulch or use erosion control matting all disturbed areas that will remain exposed for more than 14 days.
- Cover, vegetate or install erosion matting on areas that will remain disturbed over the winter.
- Protect ditches, catch basins or water bodies off-site by using silt fencing, gravel check dams or other approved sediment control methods.

CONSTRUCTION VEHICLES

- Do not park construction vehicles on City owned green space. Vehicles disturb vegetation and compact the soil, thereby reducing its ability to infiltrate stormwater. Any green belt disturbance will need to be permanently stabilized with grass seed and erosion control matting.
- Prevent sediment from leaving the project by cleaning the tires of vehicles, or use clean gravel at project access points to clean tires.
- Sweep city streets, sidewalks and bikepaths daily or as needed to remove sediment transported from the project.

RESOURCES

The Vermont Handbook for Erosion Prevention and Sediment Control at:
http://vtwaterquality.org/stormwater/docs/construction/sw_low_risk_site_handbook.pdf

The City of Burlington Stormwater Program Page at
<http://www.burlingtonvt.gov/DPW/Stormwater-Management>

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Stormwater Management Plan Pre-Screening

Please provide the following information to the Stormwater Program (stormwater@burlingtonvt.gov, ph: 863-4501) in order to determine what the requirements will be for your project.

- General Information
 - Project Address:
 - Owner:
 - Engineer:
 - Brief project description:

- Stormwater Management Plan
 - Impervious¹ change summary

Condition	Type	Total Impervious (s.f.)
Existing Conditions	Existing Impervious	
Proposed	Total Proposed (1+2+3)	
	1) New ²	
	2) Existing to Remain	
	3) Redeveloped	
Net New	Total Proposed – Existing	

If available at this time:

- Existing conditions: *description of existing conditions, description of existing stormwater system, existing drainage issues, current connectivity to City system*

- Proposed Conditions: *description of proposed conditions, brief description of proposed stormwater system, proposed method of discharge to receiving water or City system (overland flow, direct connection via pipe, existing or new manhole or CB)*

¹ Impervious = any surface off of which water runs off rather than infiltrates, including, but not limited to rooftops and paved/unpaved (gravel/packed dirt) driveways, walkways and patios

² Impervious where there is not currently impervious

LOT COVERAGE NOTES:

EXISTING:
 CAMP WITH DECKS - 11,507 SQ. FT.
 BASES - 496 SQ. FT.
 WALKWAY - 480 SQ. FT.
 BEACH ACCESS BRICES - 480 SQ. FT.
 3 THEORETICAL PARKING SPACES, PAVED EA. - 340 SQ. FT.
 TOTAL - 12,103 SQ. FT. (APPROX. 17%)

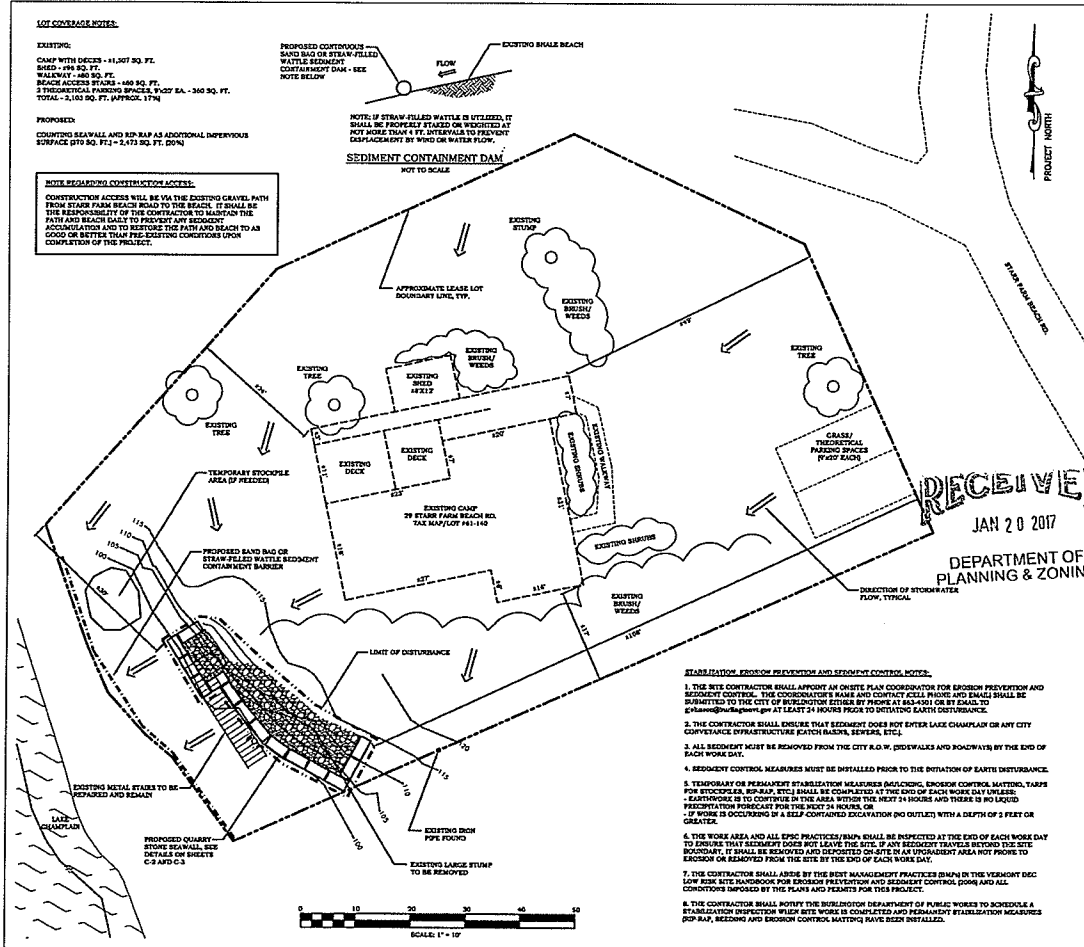
PROPOSED:
 COUNTER WALL AND SIP-RAP AS ADDITIONAL IMPERVIOUS SURFACE (679 SQ. FT.) - 5,173 SQ. FT. (50%)

NOTES REGARDING CONSTRUCTION ACCESS:

CONSTRUCTION ACCESS WILL BE VIA THE EXISTING GRAVEL PATH FROM STARR FARM BEACH ROAD TO THE BEACH. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE PATH AND BEACH DAILY TO PREVENT ANY SEDIMENT ACCUMULATION AND TO RESTORE THE PATH AND BEACH TO AS GOOD OR BETTER THAN PRE-EXISTING CONDITIONS UPON COMPLETION OF THE PROJECT.

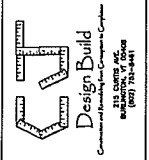


NOTE: IF STRAW-FILLED WATTLE IS UTILIZED, IT SHALL BE PROPERLY STAKED OR WEIGHTED AT NOT MORE THAN 4' FT. INTERVALS TO PREVENT DISPLACEMENT BY WIND OR WATER FLOW.



STABILIZATION, EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

1. THE SITE CONTRACTOR SHALL APPOINT AN ON-SITE PLAN COORDINATOR FOR EROSION PREVENTION AND SEDIMENT CONTROL. THE COORDINATOR'S NAME AND CONTACT CELL PHONE AND EMAIL SHALL BE SUBMITTED TO THE CITY OF BURLINGTON EITHER BY PHONE AT 802-244-1401 OR BY EMAIL TO planning@burlington.gov AT LEAST 24 HOURS PRIOR TO INITIATING EARTH DISTURBANCE.
2. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT DOES NOT ENTER LAKE CHAMPLAIN OR ANY CITY COVENANCE INFRASTRUCTURE (PATCH BLEEDS, SEVERALS, ETC.).
3. ALL SEDIMENT MUST BE REMOVED FROM THE CITY R.O.W. (SIDEWALKS AND ROADWAYS) BY THE END OF EACH WORK DATE.
4. SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE INITIATION OF EARTH DISTURBANCE.
5. TEMPORARY OR PERMANENT STABILIZATION MEASURES (INCLUDING EROSION CONTROL MATTING, TAPPS FOR STOCKPILES, SIP-RAP, ETC.) SHALL BE COMPLETED AT THE END OF EACH WORK DAY UNLESS:
 - a. EARNESTLY IN CONTRADICTION TO THE ABOVE WITHIN THE NEXT 24 HOURS AND THERE IS NO LOWER PRECIPITATION FORECAST FOR THE NEXT 24 HOURS; OR
 - b. IF WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (NO OUTLETS) WITH A DEPTH OF 2 FEET OR GREATER.
6. THE WORK AREA AND ALL ERIC PRACTICES SHALL BE RESTORED BY THE END OF EACH WORK DAY TO ENSURE THAT SEDIMENT DOES NOT LEAVE THE SITE. IF ANY SEDIMENT TRAVELS BEYOND THE SITE BOUNDARY, IT SHALL BE REMOVED AND DEPOSITED ON-SITE IN AN UNPAVED AREA NOT PRIOR TO EROSION OR REMOVED FROM THE SITE BY THE END OF EACH WORK DAY.
7. THE CONTRACTOR SHALL ADHERE BY THE BEST MANAGEMENT PRACTICES (BMP) IN THE VERMONT DEC. LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL (2006) AND ALL CONDITIONS IMPOSED BY THE PLANS AND PERMITS FOR THIS PROJECT.
8. THE CONTRACTOR SHALL NOTIFY THE BURLINGTON DEPARTMENT OF PUBLIC WORKS TO SCHEDULE A STABILIZATION INSPECTION PRIOR TO WORK BEING COMPLETED AND PERMANENT STABILIZATION MEASURES (SIP-RAP, SEEDING AND EROSION CONTROL MATTING) HAVE BEEN INSTALLED.



STATE OF VERMONT
 CLIFFORD R. COLLINS
 No. 8272
 Civil
 LICENSED
 PROFESSIONAL ENGINEER
 EROSION PREVENTION
 AND SEDIMENT
 CONTROL PLAN
 29 STARR FARM BEACH RD
 BURLINGTON, VERMONT

DATE: 01/12/2017
 SCALE: 1"=10'
 DRAWN BY: DEC

REVISIONS

E-1
 SHEET 4 OF 4