VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
LAKES & PONDS PROGRAM

Lake & Shoreland Permitting Approved
2016.05.27 09:56:44 -04'00'

Version: February 2016

# Individual Permit Application

for a **Lake Encroachment Permit** under Chapter 11 of Title 29, § 401 *et seq.*

***For Lake Encroachment Permitting Use Only***
Application Number: 2016-008_vfwd

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
LAKES & PONDS PROGRAM

Submission of this application constitutes notice that the person in Section B intends to encroach beyond the mean water level of a lake or pond, and certifies that the project will comply with Chapter 11 of Title 29, § 401 *et seq.* All information required on this form must be provided, and the requisite fees (Section I) must be submitted made payable to the State of Vermont, to be deemed complete.

**A. Project Information**

1. Physical Address (911 Address): 619 Coventry Street

2. Town - County: Newport - Orleans | 2b. Zip: 05855

3. SPAN (The School Parcel Account Number is required for your application to be deemed complete. It can be obtained from your property tax bill. If you cannot locate your property tax bill, please obtain this information from your Town Clerk): 435-136-15634 N/A ☐

4. Name of lake/pond: Memphremagog Lake - Newport (South Bay)

RECEIVED MAR 30 2016 WSMD

**B. Applicant (landowner if applicable) Contact Information**

1. Name: Vermont Fish & Wildlife Department

2a. Mailing Address: 1 National Life Drive, Davis 2

2b. Municipality: Montpelier | 2c. State: Vermont | 2d. Zip: 05620-3702

3. Phone: 802-828-1000 | 4. Email: Mike.Wichrowski@vermont.gov

**C. Application Preparer Contact Information**

1. Name: Emily Perkins, Facilities Engineering Division

2a. Mailing Address: 1 National Life Drive, 1 Main

2b. Municipality: Montpelier | 2c. State: Vermont | 2d. Zip: 05620-3510

3. Phone: 802-477-2675 | 4. Email: Emily.Perkins@vermont.gov

**D.** Have you ever applied for a permit with the Department of Environmental Conservation associated with this parcel? ☐ Yes ☑ No

**E. Abutting Land Owners**

Using the abutter addendum available on watershedmanagement.vt.gov/permits/htm/pm_encroachment-application.htm, attach a list of land owners who abut the proposed project.

**F. Project Description**

1. Describe the proposed project including a description of the materials and mechanical equipment which may be used during construction and the anticipated work schedule. Identify whether or not the project includes placement or removal of fill and if so, specify the number of cubic yards of fill or dredged materials to be placed or removed beyond the shoreline at mean water level.

This project includes removing an existing concrete plank access ramp (~3 CY below MWL) and existing concrete plank ramp apron. An existing wooden dock and existing concrete slab will also be removed. All concrete structures to be removed will be replaced with 3/4" to 1-1/2" stone (~3 CY below MWL). An existing propeller wash hole has created an underwater berm which will be removed by dredging approximately 15 CY of material (all below MWL). A geotextile filter curtain will be placed around the entire work area to prevent any sediment from entering the lake. Additionally, a new concrete dock anchor (6' x 6' x 3') and footing (8' x 8' x 1') will be constructed using reinforced cast-in-place concrete. A prefabricated 50' long L-shaped dock will be attached to the anchor. A new paved ADA compliant parking space and dock approach path will be constructed. The parking space is 40' long by 10' wide, while the approach path is 5' to 6' wide by 60' long (L-shaped path). Turf will be established in all areas where disturbed soils are exposed.

2. Describe the purpose of the proposed project:

The purpose of this project is to remove the existing concrete plank access ramp and existing wooden dock (as well as all associated concrete pads/aprons), remove the underwater berm, and add a dock next to the newer, existing concrete access ramp located roughly 50' south of the plank ramp. To make this ramp and new dock ADA accessible, an ADA complaint parking space and pathway will be constructed just west of the dock anchor. The estimated start date for this project is July 1, 2016 and the estimated completion date is September 30, 2016.

3. Describe what less intrusive feasible alternatives have been considered:

No less intrusive, feasible alternative has been identified. A geotextile filter curtain will be installed to enclose the proposed work, from water surface to lake bottom, and prevent any turbidity from escaping the approximate limits of construction. Stone fill shall be free of all silt, clay, and organics.

4. Describe the public benefits of the proposed project:

This project benefits the public by enhancing an existing Fish & Wildlife Access Area and making it more accessible to everyone. Adding a new dock and ADA access path to the existing concrete boat ramp makes it so more people, of all ages and abilities, are able to conveniently get their boats out on the water. Removing the existing plank access ramp and dock will ensure there are less safety hazards, and will result in a gravel area where individuals are able to launch smaller boats such as kayaks and canoes. Having separate motorized and non-motorized boat launches also creates a safer environment for everyone.

**G. Encroachment Effects** (describe how the proposed project will affect the following)

1. What measures are proposed to minimize the project's effects on water quality (e.g., use of a turbidity curtain)?:

The construction area will be enclosed by a geotextile filter curtain, which will ensure no turbidity travels into the lake. The filter curtain will be installed before any other work begins, and will remain installed until the entire project is complete. Additionally, at the end of construction, turf will be established on all exposed soils.

2. How will the project minimize effects to fish and wildlife habitat (e.g., project is not to commence until after fish spawning July 1 of any calendar year)?:

This project minimizes effects to fish and wildlife habitat by ensuring the project does not begin until after July 1 of any calendar year.

3. Does the project propose removal of aquatic or shoreline vegetation? If so, what measures are proposed to reduce the effects of vegetation removal?:

Installing the concrete dock anchor will unfortunately result in the removal of some shoreline vegetation. When installing the dock anchor, the smallest amount of vegetation possible will be removed. Additionally, removing the existing concrete plank access ramp and wooden dock will allow some of the native shoreline vegetation to naturally re-establish over time.

4. Describe the surrounding shoreline. Is the project consistant with these surroundings? What measures are proposed to ensure the project is in-keeping with the surroundings?:

This area is already a Fish & Wildlife boat access area with 2 boat launches. The shoreline is covered in tall grasses. The shoreline will not change much except for the addition of a new dock. Removing the existing concrete plank access ramp and existing wooden dock will allow some of the natural shoreline vegetation to re-establish. This project is consistent with the existing surroundings.

5. Will the project affect navigation, recreation, and other public uses? If so, how will these effects be minimized?:

This is a relatively small project area and will affect very little public water use. During construction, the existing boat launch will be unavailable for a short time and users will have to use a different boat launch. These effects will be minimized by notifying the public before any boat launch ramp closings and minimizing the amount of time the ramp is closed.

**H. Applicant Certification**

As APPLICANT, I hereby certify that the statements presented on this application are true and accurate and recognize that by signing this application, I agree to complete all aspects of the project as authorized. I understand that failure to comply with the foregoing may result in violation of the Chapter 11 of Title 29, § 401 *et seq.*, and the Vermont Agency of Natural Resources may bring an enforcement action for violations of the Act pursuant to 10 V.S.A. chapter 201.

Applicant (landowner if applicable) Signature: _____ Date: 3/29/16

**I. Application Preparer Certification (if applicable)**

As APPLICATION PREPARER, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Application Preparer Signature: Emily Perkins Digitally signed by Emily Perkins DN: cn=Emily Perkins, o=State of Vermont, Facilities Engineering Division, ou, email=emily.perkins@vermont.gov, c=US Date: 2016.03.28 12:53:24 -04'00' Date: 03/28/2016

**J. Additional Required Documentation** *(Please check to ensure you have completed the following)*

- ☑ All sections of the application are complete (or otherwise indicate "not applicable")
- ☑ Application includes site plans with aerial and cross section views
- ☑ Application description includes dimensions and surface areas of cleared areas and impervious surfaces
- ☑ Application includes photos of project area

**K. Permit Application Fees**

Select the most applicable permit description and requisite fee. If the proposed project involves more than one of the project types, multiple fees may apply. For example, a project involving structural erosion control and marina improvement will require both fees (2) and (3).

1. Non-structural erosion control project (e.g., rip rap):

| | | |
|---|---|---|
| *Non-structural erosion control project: $155.00* | | |
| ***Total:*** | | |

2. Structural erosion control project (e.g., concrete wall replacement):

| | | |
|---|---|---|
| *Structural erosion control project: $250.00* | | |
| ***Total:*** | | |

3. Other projects (e.g., marina improvements):

| | | |
|---|---|---|
| *Other Project: $300.00* | | $ 300.00 |
| *Project Cost Fee: 0.01 times project cost* | Project cost $ 21,425.00 x **0.01** | $ 214.25 |
| ***Total:*** | | $ 514.25 |

**Print Form**

***Submit this form and application fee, payable to:***

**State of Vermont**
**Vermont Department of Environmental Conservation**
**Watershed Management Division**
**1 National Life Dr, Main 2**
**Montpelier, VT 05620-3522**

Direct all correspondence or questions to Lake Encroachment Permitting at: ANR.WSMDShoreland@vermont.gov

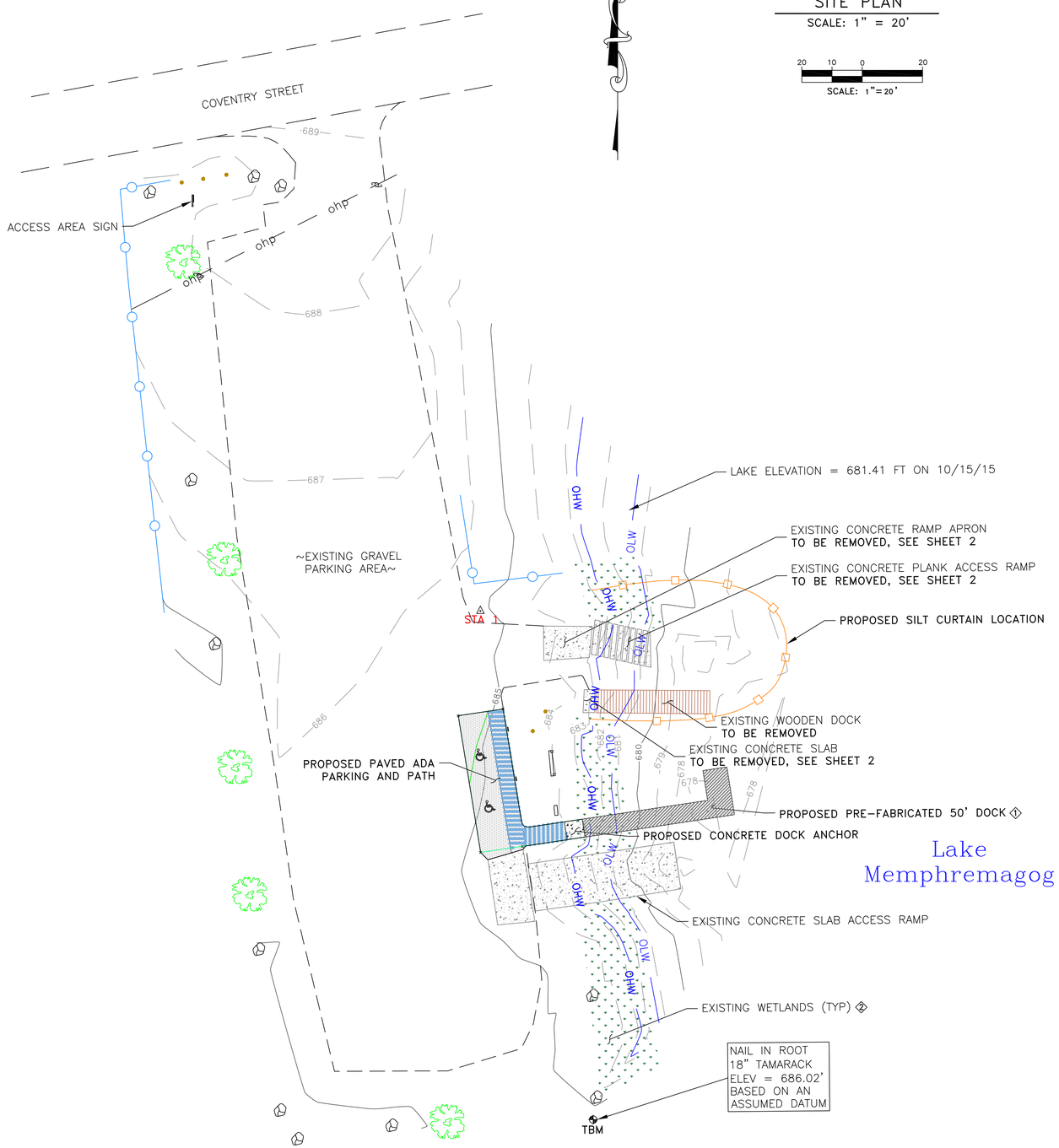
For additional information visit: www.watershedmanagement.vt.gov

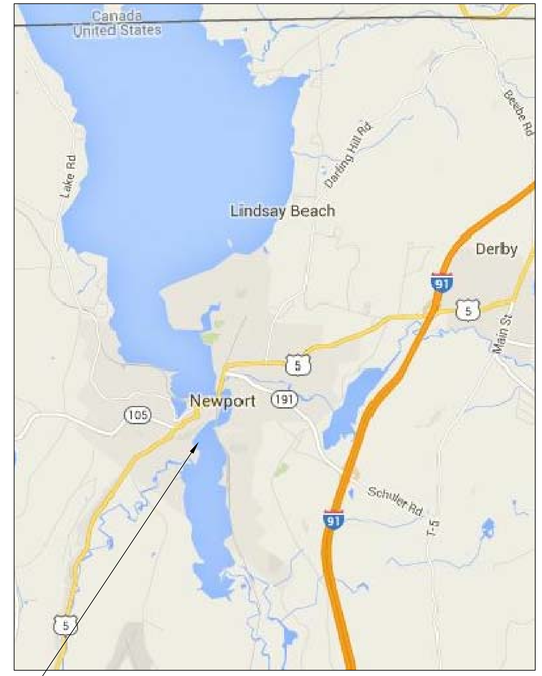
# SITE PLAN

SCALE: 1" = 20'

20 10 0 20

SCALE: 1"= 20'




SOUTH BAY ACCESS AREA ON LAKE MEMPHREMAGOG IN NEWPORT, VT. MAP NOT TO SCALE.

PROJECT LOCATION: THIS PROJECT IS LOCATED AT THE SOUTH BAY ACCESS AREA, ON LAKE MEMPHREMAGOG IN NEWPORT, VERMONT. FROM I-91 NORTH, TAKE EXIT 27 TO VT-191 NORTH FOR 2.2 MILES. TURN LEFT ONTO US-5 SOUTH AND DRIVE FOR 0.5 MILES BEFORE TURNING LEFT ON COVENTRY STREET. FOLLOW COVENTRY STREET FOR 0.6 MILES AND THE ACCESS AREA WILL BE ON THE LEFT.

PROJECT DESCRIPTION: REMOVAL OF EXISTING CONCRETE PLANK ACCESS RAMP, WOODEN DOCK, AND TWO CONCRETE SLABS; INSTALLATION OF A SILT CURTAIN TO FILL IN EXISTING PROP WASH; INSTALLATION OF A 6'X6' CONCRETE DOCK ANCHOR (DOCK TO BE INSTALLED BY OTHERS). ALSO INCLUDED IS THE CREATION OF A PAVED ADA PARKING AREA AND DOCK ACCESS RAMP, AS WELL AS ANY APPURTENANCES NECESSARY TO COMPLETE THE PROJECT.

## LEGEND – EXISTING

- 99 — CONTOUR – 1 FT INTERVAL
- 100 — CONTOUR – 5 FT INTERVAL
- EDGE OF ROAD
- FENCE LINE
- SILT CURTAIN
- ohp — OVERHEAD POWER LINE
- OHW — ORDINARY HIGH WATER (682.7')
- OLW — ORDINARY LOW WATER (681.3')
- WOODEN BOLLARD
- EXISTING TREE
- SURVEY STATION
- TEMPORARY BENCH MARK
- LARGE SURFACE ROCK
- WETLANDS

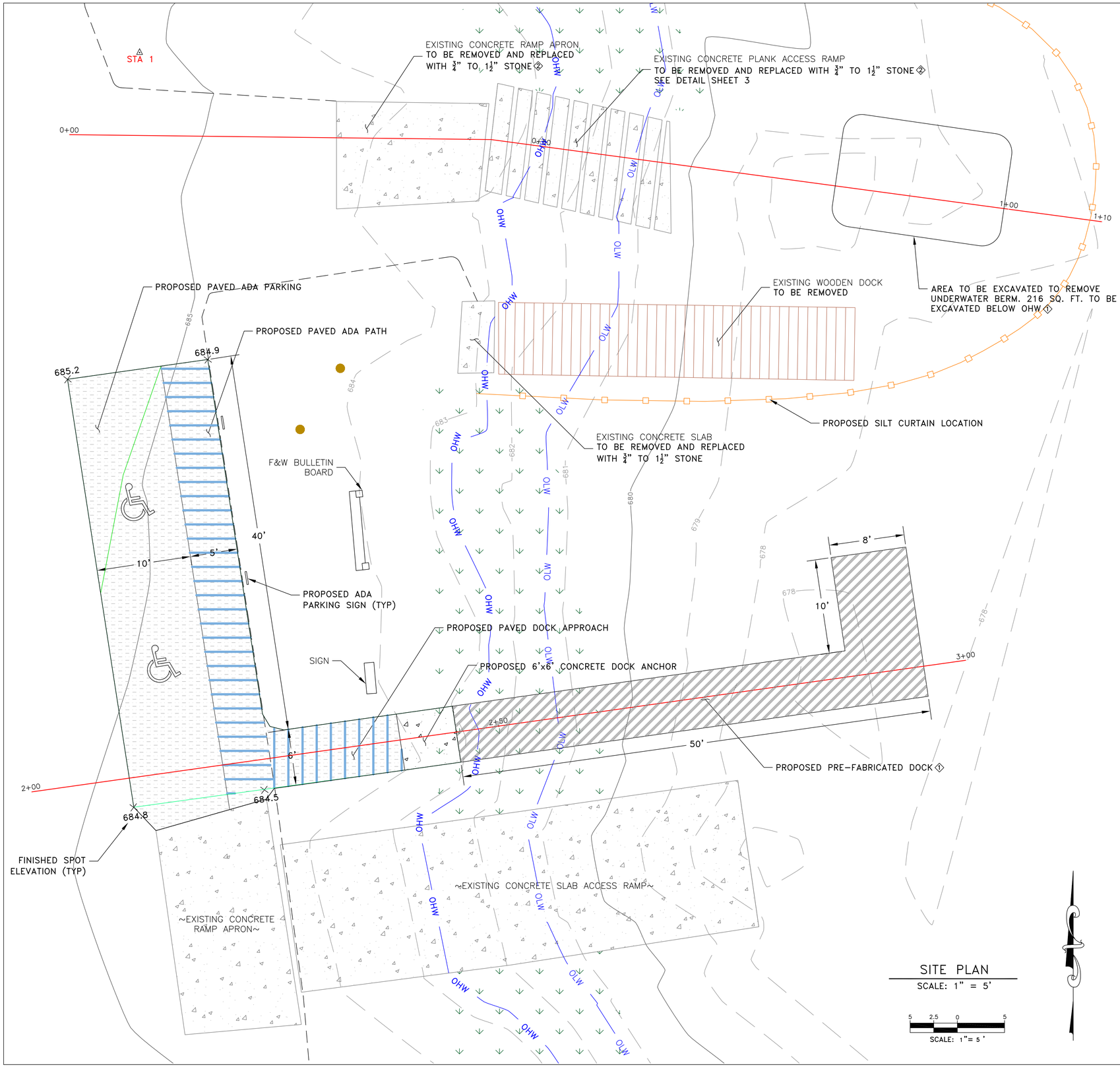
STATE OF VERMONT
JAMES J. BURKE
No. 5929
REGISTERED PROFESSIONAL ENGINEER
3/28/2016

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FACILITIES ENGINEERING DIVISION
MONTPELIER, VERMONT 05620-3510

| REVISIONS | |
|---|---|
| ◇ | |
| ◇ | |
| ◇ | |
| ◇ | |
| 2 | 4/27 ADDED WETLANDS |
| 1 | 4/6 ADDED DOCK |

DEPARTMENT: FISH & WILDLIFE
PROJECT: SOUTH BAY ACCESS AREA
ACCESS RAMP IMPROVEMENTS
SITE PLAN
LOCATION: NEWPORT, VERMONT

DESIGNED: JJB
DRAWN: EGP
CHECKED: JJB
SHEET: 1 of 4
DATE: 3/28/16
SCALE: AS NOTED




## SITE PLAN

SCALE: 1" = 5'

5 2.5 0 5

SCALE: 1"= 5 '

GENERAL CONSTRUCTION NOTES:

1. A MINIMUM OF FIVE WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE ENGINEER TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE.

2. THE ENGINEER SHALL PROVIDE THE INITIAL CONSTRUCTION STAKE OUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SUBSEQUENT STAKE OUT NECESSARY. ALL WORK SHALL BE STAKED OUT WITH AN ACCURATE BUILDER'S LEVEL OR MORE PRECISE SURVEYING INSTRUMENT. THE CONTRACTOR SHALL HAVE A PERSON ON THE JOB EXPERIENCED IN SURVEY WORK TO PROVIDE STAKE OUT.

3. ALL WORK SHALL BE IN CONFORMANCE WITH THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL ON CONSTRUCTION SITES. THESE STANDARDS AND SPECIFICATIONS SHALL APPLY WHETHER THE PROJECT REQUIRES A PERMIT FROM THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION OR NOT.

4. ALL WORK SHALL BE IN CONFORMANCE WITH THE VERMONT STORMWATER MANAGEMENT MANUAL VOLUME I – STORMWATER TREATMENT STANDARDS AND VOLUME II – TECHNICAL GUIDANCE.

5. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS AFFECTED BY THIS JOB TO PRIOR TO CONSTRUCTION CONDITIONS OR BETTER. THIS SHALL INCLUDE ANY STAGING AREAS USED ON THE PROPERTY.

6. TURF ESTABLISHMENT MEASURES SHALL BE PERFORMED ON ALL AREAS WHERE THE VEGETATIVE COVER HAS BEEN DISTURBED WITHIN SEVEN DAYS OF COMPLETION OF WORK IN THAT AREA.

7. NO FILL SHALL BE PLACED ON EXISTING TURF. ALL EXISTING TURF IN AREAS TO BE CUT, FILLED OR REGRADED SHALL BE STOCKPILED ON SITE AS SHOWN ON THE PLANS.

8. THE CONTRACTOR SHALL CONTACT "DIG-SAFE" PRIOR TO COMMENCING ANY EARTHWORK.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL UTILITIES. ANY DISTURBED UTILITIES SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR TO COMPLETE THE PROPOSED ACCESS AREA IMPROVEMENTS AS SHOWN ON THE PLANS, AS DIRECTED IN THE SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

11. THE FINISH GRADE SHALL SLOPE TO DRAIN.

12. ANY EXCESS SOILS SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT AN UPLANDS, NON-WETLAND SITE MEETING THE REQUIREMENTS OF THE VERMONT ENVIRONMENTAL PROTECTION RULES. ②

13. ALL CONCRETE TO BE REMOVED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR IN CONFORMANCE WITH ALL APPLICABLE VERMONT ENVIRONMENTAL PROTECTION RULES.

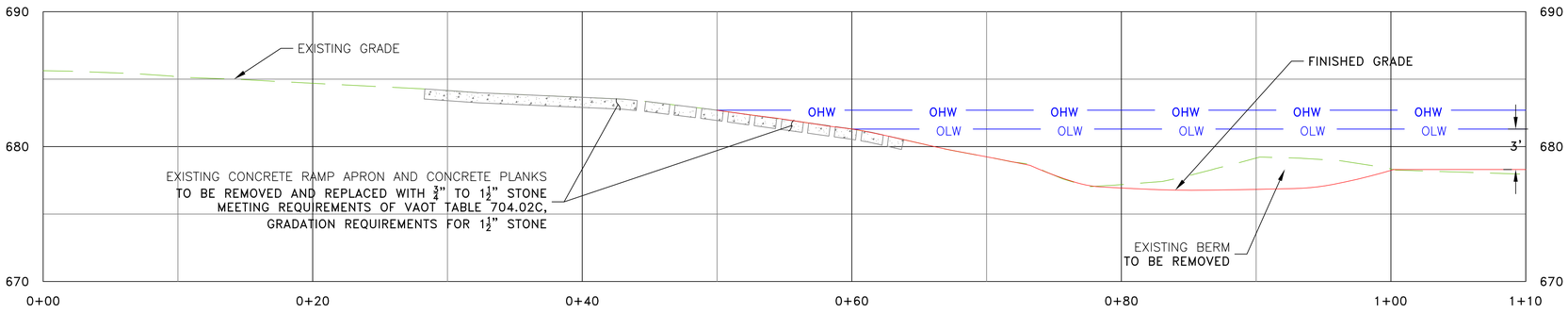
14. THE EXISTING WOODEN DOCK TO BE REMOVED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR IN CONFORMANCE WITH ALL APPLICABLE VERMONT ENVIRONMENTAL PROTECTION RULES.

15. WETLANDS SHALL BE DISTURBED AS LITTLE AS POSSIBLE. EQUIPMENT SHALL AVOID THESE AREAS TO THE MAXIMUM EXTENT PRACTICAL, AND NO MATERIALS ARE TO BE STOCKPILED IN WETLAND LOCATIONS. ANY WETLAND AREAS TEMPORARILY DISTURBED FOR DOCK ANCHOR INSTALLATION SHALL BE RETURNED TO PREEXISTING GRADES AND CONDITIONS IN CONFORMANCE WITH CONDITION 18 OF THE USACE VERMONT GENERAL PERMIT. ③

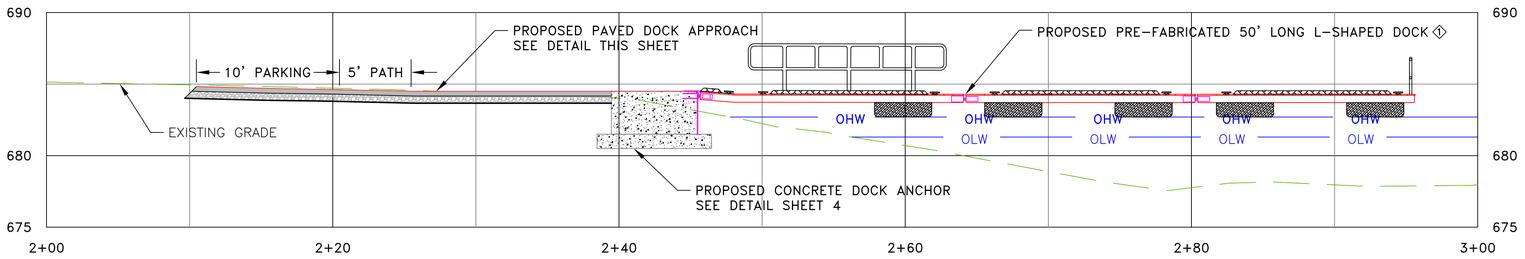
STATE OF VERMONT JAMES J. BURKE No. 5929 REGISTERED PROFESSIONAL ENGINEER
3/28/2016

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FACILITIES ENGINEERING DIVISION
MONTPELIER, VERMONT 05620-3510

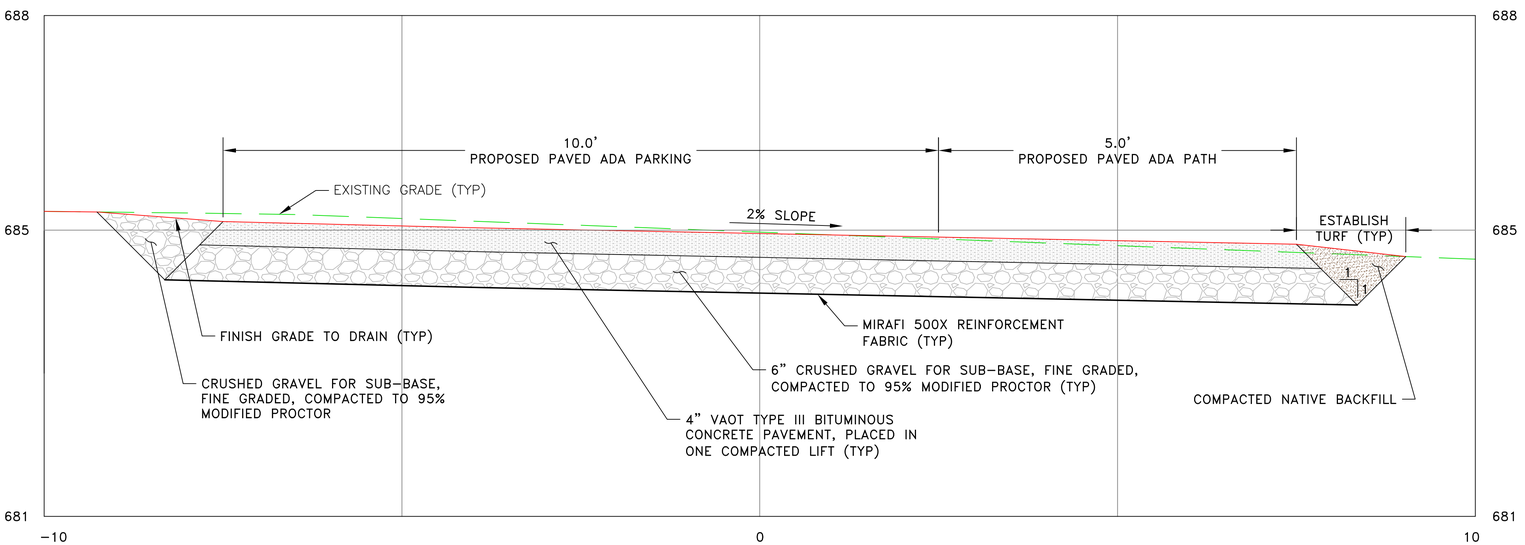
| REVISIONS | | DEPARTMENT | DESIGNED |
|---|---|---|---|
| ◇ | | FISH & WILDLIFE | JJB |
| ◇ | | PROJECT | DRAWN |
| ◇ | | SOUTH BAY ACCESS AREA<br>ACCESS RAMP IMPROVEMENTS<br>SITE PLAN DETAIL AND NOTES | EGP |
| ◇ | | | CHECKED |
| ③ | 4/27 ADDED WETLANDS & NOTE | | JJB |
| ② | 4/6 EDITED NOTES | | SHEET 2 of 4 |
| ① | 4/5 ADDED DOCK & BERM DETAIL | LOCATION NEWPORT, VERMONT | DATE 3/28/16 |
| | | | SCALE AS NOTED |



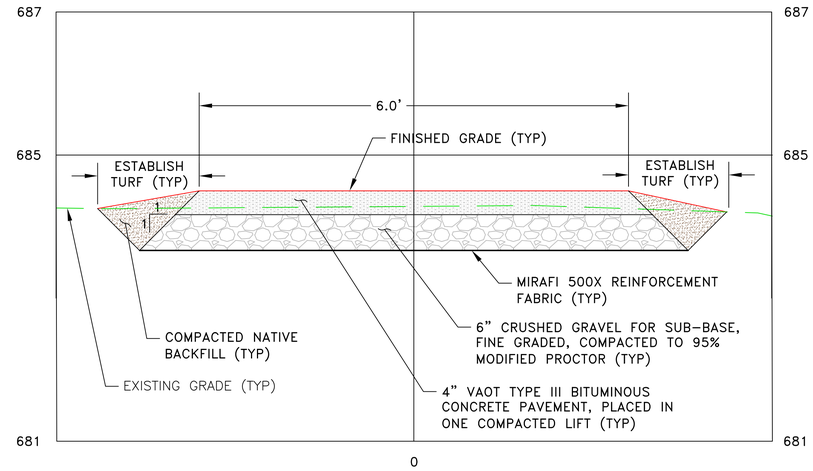

PROFILE STA 0+00 TO 1+10
SCALE 1" = 5'




PROFILE STA 2+00 TO 3+00
SCALE 1" = 5'




TYPICAL PAVED PARKING AREA CROSS SECTION
SCALE 1" = 1'



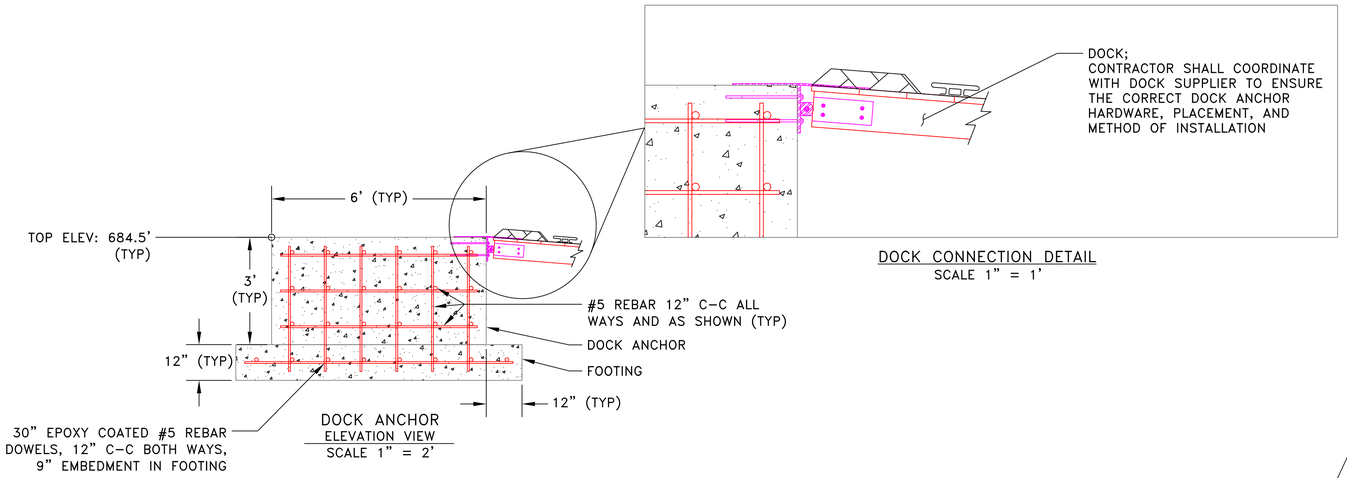

TYPICAL DOCK APPROACH CROSS SECTION
SCALE 1" = 1'

NOTE: THE CONTRACTOR SHALL ESTABLISH TURF ON SIDE SLOPES IN ACCORDANCE WITH THE DETAIL ON SHEET 4

STATE OF VERMONT
JAMES J. BURKE
No. 5929
REGISTERED PROFESSIONAL ENGINEER
3/28/2016

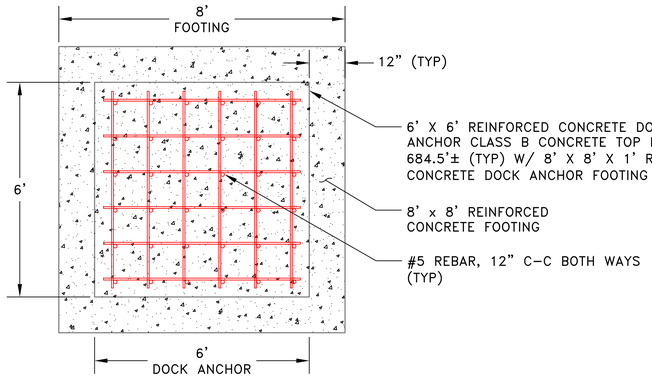
STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FACILITIES ENGINEERING DIVISION
MONTPELIER, VERMONT 05620-3510

| REVISIONS | | DEPARTMENT | DESIGNED |
|---|---|---|---|
| ◇ | | FISH & WILDLIFE | JJB |
| ◇ | | PROJECT | DRAWN |
| ◇ | | SOUTH BAY ACCESS AREA<br>ACCESS RAMP IMPROVEMENTS<br>PROFILES AND TYPICAL CROSS SECTIONS | EGP |
| ◇ | | | CHECKED |
| ◇ | | | JJB |
| ◇ | | | SHEET<br>3 of 4 |
| ① | 4/5 ADDED DOCK | LOCATION<br>NEWPORT, VERMONT | DATE<br>3/28/16 |
| | | | SCALE<br>AS NOTED |

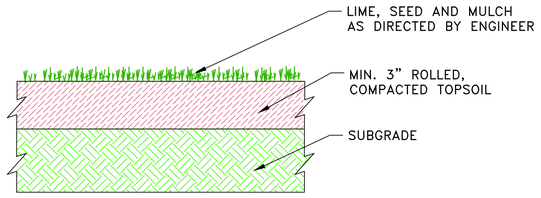



DOCK CONNECTION DETAIL
SCALE 1" = 1'

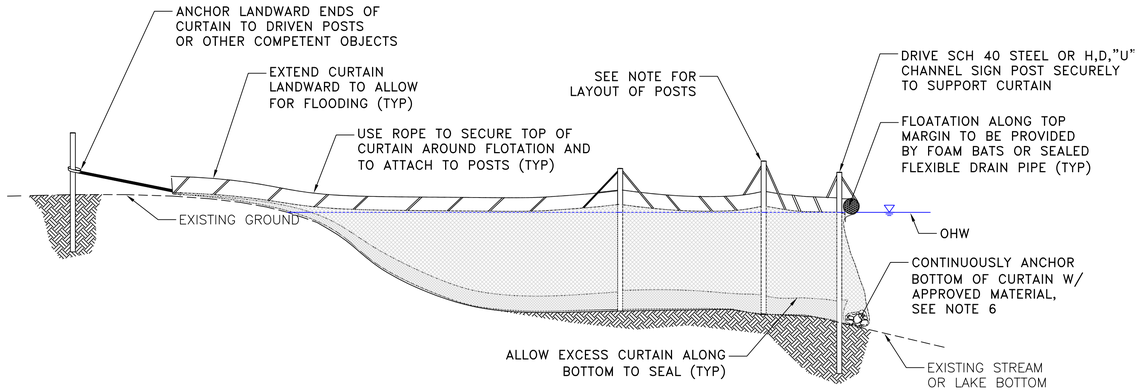
DOCK ANCHOR
ELEVATION VIEW
SCALE 1" = 2'




DOCK ANCHOR
PLAN VIEW
SCALE 1" = 2'




TURF ESTABLISHMENT
CROSS SECTION
NOT TO SCALE




SILT CURTAIN DETAIL
NOT TO SCALE

NOTES:
1. SILT CURTAIN SHALL BE CONSTRUCTED AND COMPLETELY INSTALLED PRIOR TO STARTING ANY FILL OR EXCAVATION WORK IN THE WATER.

2. PLACEMENT OF FILTER CURTAIN SHALL ALLOW A MINIMUM OF 10 FEET BETWEEN LIMIT OF EXCAVATION AND CURTAIN TO PREVENT DISTURBANCE OF CURTAIN DURING WORK.

3. PRIOR TO WORK IN THE WATER, THE FILTER CURTAIN SHALL BE INSPECTED AND APPROVED BY THE ENGINEER. FILTER FABRIC SHALL BE MIRAFI 140 N OR APPROVED EQUAL.

4. WHEN JOINING TWO PIECES OF FILTER FABRIC, OVERLAP SHALL BE AT LEAST 6 FEET. METHOD OF SPLICING SHALL BE HAND STITCHING, DOUBLE ROW, OR APPROVED EQUAL.

5. CONTINUOUS FLOATATION ALONG THE TOP MARGIN SHALL BE PROVIDIED BY CLOSED CELL FOAM BATS OR FLEXIBLE CORRUGATED DRAIN PIPE SEALED AIRTIGHT, SIZED TO ACCOUNT FOR WAVE AND OR CURRENT ACTION.

6. CONTINUOUS SEALING ALONG THE BOTTOM MARGIN SHALL BE ACHIEVED BY LEAVING EXCESS FABRIC TO BE ANCHORED WITH CHAIN, CONCRETE BLOCKS, BRICKS, STEEL ROD, CABLE AND NATIVE MATERIAL, AS SHOWN IN THE DRAWING. ALL NON-NATIVE MATERIALS USED FOR ANCHORING SHALL BE COMPLETELY REMOVED AFTER COMPLETION OF THE WORK.

7. THE SPACING OF STEEL POSTS SHALL PROVIDE ADDITIONAL VERTICAL AND HORIZONTAL SUPPORT TO THE CURTAIN TO ACCOMODATE FOR THE FORCES OF WIND, WAVE AND CURRENT.

8. AFTER COMPLETION OF THE WORK IN THE WATER, THE FILTER CURTAIN SHALL REMAIN IN PLACE UNTIL TURBIDITY INSIDE THE CURTAIN IS EQUAL TO THAT OUTSIDE.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| REVISIONS | | DEPARTMENT | DESIGNED |
|---|---|---|---|
| ◇ | | FISH & WILDLIFE | JJB |
| ◇ | | PROJECT | DRAWN |
| ◇ | | SOUTH BAY ACCESS AREA | EGP |
| ◇ | | ACCESS RAMP IMPROVEMENTS | CHECKED |
| ◇ | | DOCK DETAIL | JJB |
| ◇ | | EROSION CONTROL DETAILS | SHEET 4 of 4 |
| ◇ | | | DATE 3/28/16 |
| ◇ | | LOCATION NEWPORT, VERMONT | SCALE AS NOTED |