



**VTrans Fall 2023 Transportation Alternatives (TAP)  
and  
Municipal Highway and Stormwater Mitigation Program Grant (MHSMP)  
Combined Application**

Thoroughly read the TAP and MHSMP application guidebooks before you begin your application. It includes important program information and step-by-step instructions. Pay particular attention to the application process requirements. **Applications are due by e-mail by December 8, 2023.** Please e-mail the completed application to: [Ross.gouin@vermont.gov](mailto:Ross.gouin@vermont.gov) and [Scott.robertson@vermont.gov](mailto:Scott.robertson@vermont.gov).

<u>Bridgewater Sand and Salt Shed</u> (Project Name/Title)	<u>(802) 672-3334</u> (Phone)
<u>William Young</u> (Municipality contact person responsible for the management of this project)	<u>vyoung@bridgewatervt.org</u> (e-mail address)
<u>Bridgewater</u> (Town)	<u>\$ 200,600</u> Amount of <b>Federal Funds requested</b> (no more than 80% of the project cost estimate).
<u>05034</u> (Zip Code)	<u>\$ 50,150</u> Amount of Local Match. Example: Federal Award = \$600,000 (80% of total) Local Match = \$150,000 (20% of total) Total Project Cost = \$750,000 (100% of the total)
<u>South Gate Loop Bridgewater</u> (Mailing Address)	

County: Windsor

Town/Village/City: Bridgewater

Specific location, street, or road: Schoolhouse Road

Regional Planning Commission: TRORC

If a linear project, what is the length in feet? NA

Is the project on or intersecting to a State maintained highway? Yes  No

- Note: If yes, be sure to include documentation that you have notified the VTrans District Transportation Administrator of the intent to apply for TA funding and have provided them with a brief (one paragraph) description of the proposed project.*

Project type being applied for:  **Scoping**  **Design/Construction**

The municipality understands that a typical construction project utilizing TAP or MHSMP Program funds will take roughly three years (min.) in the Design and ROW phases prior to going to construction (as pointed out in the TAP and MHSMP Application Guides)? Yes  No

Does this project have a previously completed scoping or feasibility study? Yes  No

**Note:**

Attach a map(s) of the project area and clearly show the limits of the project as well as surrounding benefits from the proposed improvement. If the project is within or adjacent to a designated downtown, village or growth center, clearly indicate the relationship of the proposed project to the boundary of the designated area. Color photos of the area are also recommended.

**Fiscal Information:**

Accounting System Automated  Manual  Combination

SAM Unique Identifier # YXK6H8Y89KR1

Fiscal Year End Month JUNE

**Property Ownership:**

If the proposed project is on private property that will need to be acquired by the Municipality through purchase, easement, or eminent domain (includes temporary construction rights) in accordance with the "Uniform Act", then the municipality is committed to exercising its right of **eminent domain** to acquire the rights to construct the project if necessary. Yes  No

**Funding:**

Does this project already have existing funding? If so, please describe. Yes  No

**2019 TAP TA19(11) CA0580**

Please note that existing projects will not be considered for additional funding without a current NEPA clearance and ROW clearance. Please provide date of clearances below:

**Revised PACE (c)(22) issued 4/27/2023 expires 04/27/2026**

Will you accept an award less than you applied for? Yes  No

- If yes, please indicate whether local funds will be used to make up the shortfall, or if the project scope will be reduced. If the project scope is to be reduced, describe what part of the project (please be specific) you would accept partial funding for.

***Project may be reduced first and then local funds may used if available but with the July 2023 flooding, Bridgewater has little extra local funds.***

**A support letter from the governing body of the applicant municipality or organization** and an acknowledgement and source of the local match and commitment to future maintenance responsibility for construction projects is required (must be dated within 1 year of the application). Is a letter of support attached?

Yes  No

**Regional Planning Commission Letter of Support:**

In order to apply, the project must have a letter of support from the regional planning commission. Is a letter of support attached?

Yes  No

***PLEASE NOTE:*** If this application is for salt or sand shed funding, the applicant must read and understand the ***Municipal Assistance Section Salt Shed Application Guide***. All of the following scoring questions below must thoroughly convey an understanding of the salt and sand guidance provided.

**Application Scoring Criteria:**

- 1. Please give a brief description of the project (be sure to indicate the primary facility type being applied for and be concise). (10 points max.)**

The Town of Bridgewater is proposing to construct a new 60'w x 140'l x 32'h sand shed at the town garage parcel just off of VT100A and US Route 4 to contain the existing sand pile on site (see attached map). The construction of the concrete walled, steel building will improve the operations of the Bridgewater Highway Department with organized piles for sand for the town. The town has a large pile at the end of the fall (3000-4000 yds) for its 45 miles of class 2 and 3 roads and may have a small leftover pile in the spring that it maintains. This large open air pile is a large source for untreated stormwater runoff year round.



- 2. What is the feasibility of this project? Feasibility (or Scoping) study applications will not be scored on this criterion. Also, please describe the extent of project development to date. (10 points max.)**

60% designs, CE docs, ROW cert., and EOPCC completed and attached.

3. **Does this project address a need identified in a local or regional planning document? If so, please describe.**  
**(5 points max.)**

Both the TRORC Regional Plan and the Bridgewater Town Plan support maintaining and improving town facilities as well as minimizing stormwater runoff and sedimentation into area rivers and wetlands.

4. **Does this project:**

***Not applicable for Environmental Mitigation Categories***

5. Provide a project cost estimate below (project costs below include both federal dollars and local dollars). Projects will be scored based on whether the cost appears realistic for the size and scope of the project. For scoping studies, use PE and Local Project Management lines only.

**Note:** If you are applying for additional funds for an existing project, show the amount being requested for this grant in the PE, ROW, Construction, Construction Engineering, and Municipal Project Management rows below. Also, be clear regarding total project cost and other funding amounts and sources in the additional funding comments box below. (10 points max.)

Preliminary Engineering (PE) (Engineering, Surveying, Permitting)	\$ 10802
Right-of-way / Acquisition (ROW) (appraisals, land acquisition and legal fees)	\$ 0
Construction (construction costs with reasonable contingency)	\$ 175642
Construction Engineering (cost to provide inspection during construction)	\$ 50000
Municipal Project Management Costs (minimum of 10% of total PE, ROW and Construction Phases).	\$ 14306
<b>Total Project Cost</b>	<b>\$ 250,750</b>

**Addition Funding Comments: (ex. Total and additional funding for existing projects)**

The town is applying for an enhancement of \$200,600 (federal), \$250,750 (total) to support higher construction and inspection costs due to inflation as the original grant was only for \$299,400 (federal), \$374,250 (total). This brings the federal portion of the grant to \$500,000 (the maximum for sand sheds).

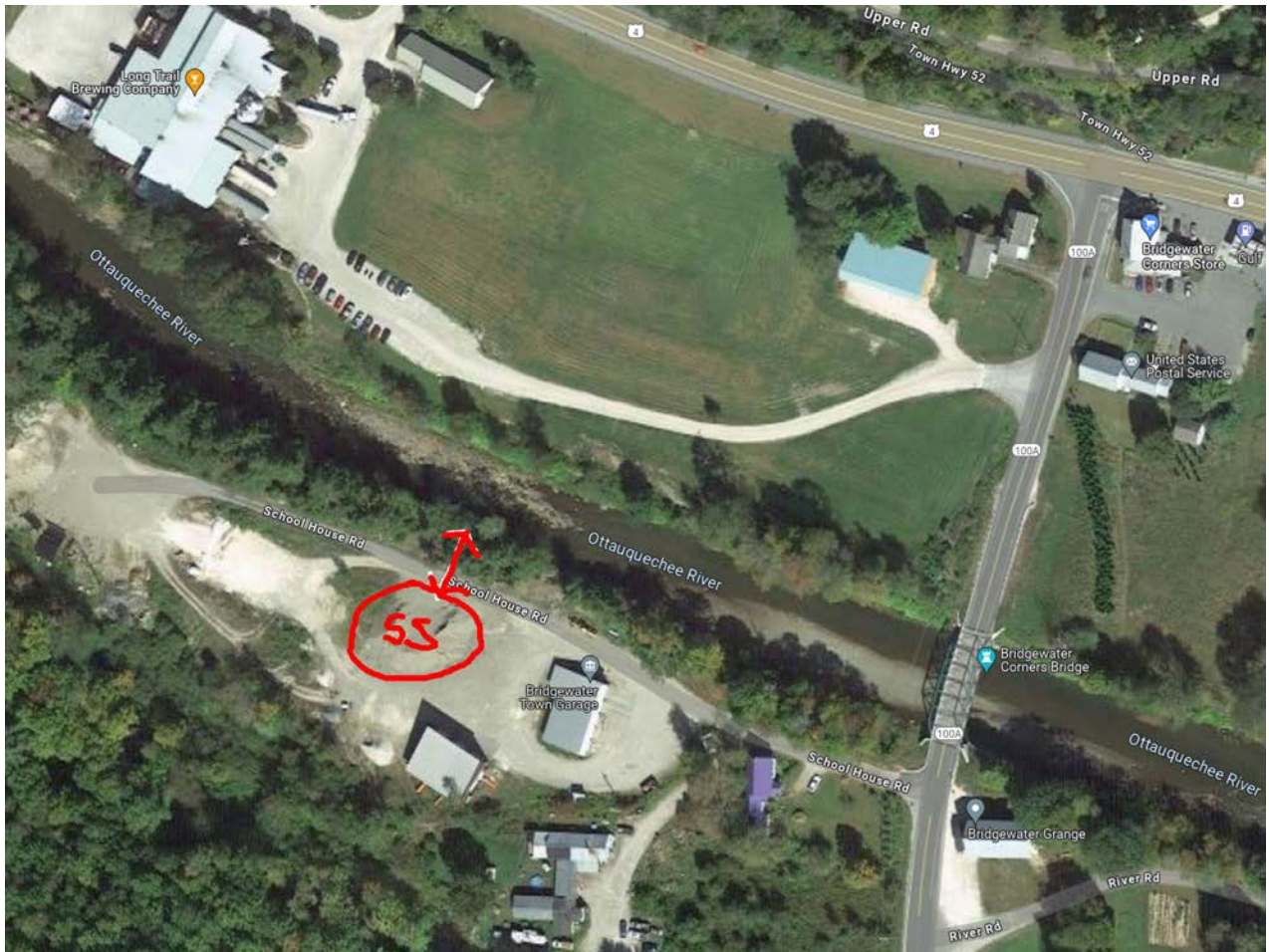
TASK	ORIGINAL APPLICATION	ACTUAL or ANTICIPATED COSTS	REQUEST
ROW	\$0	\$0	\$0
Prelim. Eng.	\$43,350	\$54,152	\$10,802
Construction	\$317,900	\$493,542*	\$175,642
Const Eng.	\$0	\$50,000	\$50,000
MPM	\$13,000	\$27,306	\$14,306
TOTALS	\$374,250	\$131,458	\$250,750

**\*The projected construction cost from the 60% EOPCC is 767k (attached). This table details this second application's additional funds to bring the total grant to 500k for sand sheds. The town is aware that their local share could be as much as 400k, even with the 500k of federal support from TAP grants.**

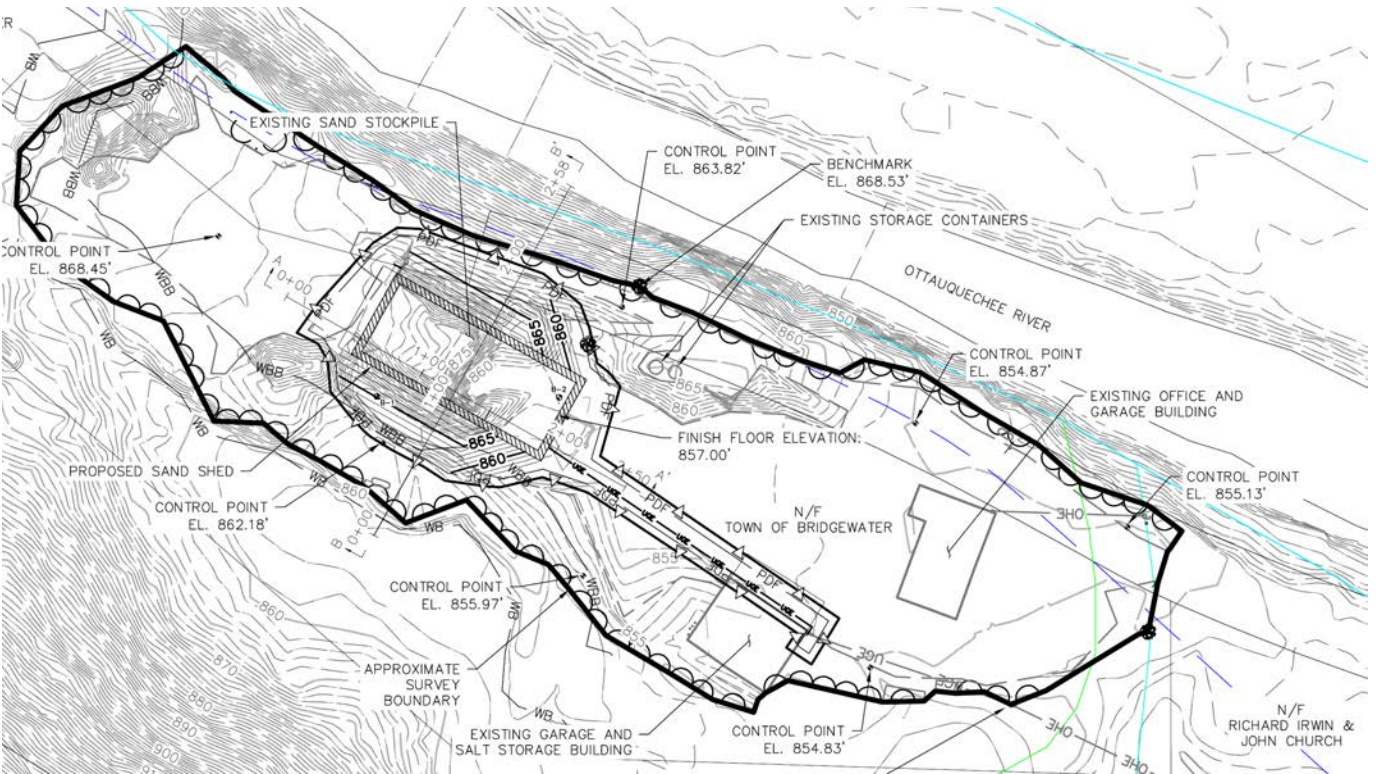
6. Select the eligibility category below (A, B, C or D) that best fits your project and answer the corresponding questions for that category (choose only one category). 10 bonus points will be awarded to projects that are primarily Bicycle or Pedestrian facilities.

C. Environmental Mitigation Activity Related to Stormwater and Highways  
(Including Salt and Sand Sheds)

- i. Please describe how this application provides environmental mitigation relating to stormwater and highways. (10 points max.)  
***This sand/shed pile is literally less than 100' from the mainstem of the Ottauquechee. Currently the sand and salt pile is open to the elements. This setup poses several issues. Mainly, the sand and salt cakes and freezes due to the precipitation that can enter the pile. This makes it harder to load and spread the mixture. As a result, more waste is created and spread in the yard. The open pile and the waste results in much more polluted runoff that reaches the Ottauquechee and the adjacent wetland. Rain the in fall and winter off a pile across the hardened, frozen garage yard can reach the Ottauquechee quickly.***



*Sand pile currently and distance to river. New shed will be over current pile at same location. Google Maps*



- ii. What information or data is provided to substantiate the current stormwater problem and associated environmental impacts? **(10 points max.)**  
**“Open” sand and salt piles are not recommended as municipal best practices as they are left to be exposed to the elements (heavy wind and rain). The stormwater runoff from these piles can easily reach nearby waterbodies. Additional piles on permeable surfaces can leach salt and minerals into the groundwater. The mainstem of the Ottauquechee is only 50’ from the existing pile on permeable gravel. A wetland complex abuts the other side of the town garage yard as well.**
  
- iii. What substantiating data or information is provided to show that the proposed application is an effective and maintainable solution to the problem? **(10 points max.)**  
**Enclosing sand and salt piles in a building is a best management practice encouraged by the Vermont Agency of Natural Resources and Vermont Agency of Transportation which will contain sand and salt sediments from contaminating the nearby Ottauquechee River, thus improving water quality in the Ottauquechee watershed. This proposal will also create a safer layout for the road crew around the garage for road maintenance practices. Bridgewater has 60% designs and a cost estimate and completed CE for summer of 2024 construction.**



ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT

Project: Sand Shed - Bridgewater, VT

Calculated By: CJR

Checked By:

Date: 11/20/2023

**NOTE:** In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein.

**OPINION OF PROBABLE CONSTRUCTION COST**

UNIT NO.	VTrans Item NO.	DESCRIPTION	UNIT	UNIT COST	Sand & Salt Shed		
					QUANTITY	AMOUNT	TOTAL
1	203.15	Common Excavation	CY	\$ 12.50	3040	\$ 38,000.00	\$38,000.00
2	203.30	Earth Borrow	CY	\$ 20.00	1160	\$ 23,200.00	\$23,200.00
3	204.20	Trench Excavation of Earth	CY	\$ 20.00	100	\$ 2,000.00	\$2,000.00
4	204.25	Structure Excavation	CY	\$ 25.00	1210	\$ 30,250.00	\$30,250.00
5	301.28	Subbase of Crushed Gravel, Fine Graded (Vtrans 704.05B)	TON	\$ 30.00	300	\$ 9,000.00	\$9,000.00
6	404.65	Emulsified Asphalt	CWT	\$ 30.00	15	\$ 450.00	\$450.00
7	406.35	Superpave Bituminous Concrete Pavement	TON	\$ 200.00	195	\$ 39,000.00	\$39,000.00
8	609.10	Dust Control with Water	MGAL	\$ 20.00	5	\$ 100.00	\$100.00
9	629.54	Crushed Stone Bedding (Vtrans 704.02B)	TON	\$ 30.00	290	\$ 8,700.00	\$8,700.00
10	635.11	Mobilization/Demobilization	LS	\$ 36,500.00	1	\$ 36,500.00	\$36,500.00
11	641.11	Traffic Control, All Inclusive	LS	\$ 2,000.00	1	\$ 2,000.00	\$2,000.00
12	649.31	Geotextile Under Stone Fill	SY	\$ 3.50	945	\$ 3,307.50	\$3,307.50
13	651.15	Seed	LB	\$ 8.00	15	\$ 120.00	\$120.00
14	651.18	Fertilizer	LB	\$ 10.00	110	\$ 1,100.00	\$1,100.00
15	651.20	Agricultural Limestone	TON	\$ 750.00	0.5	\$ 375.00	\$375.00
16	651.25	Hay Mulch	TON	\$ 1,000.00	0.5	\$ 500.00	\$500.00
17	651.35	Topsoil	CY	\$ 35.00	115	\$ 4,025.00	\$4,025.00
18	653.20	Rolled Erosion Control Product, Type I	SY	\$ 5.00	85	\$ 425.00	\$425.00
19	653.35	Stabilized Construction Entrance	CY	\$ 55.00	30	\$ 1,650.00	\$1,650.00
20	653.475	Silt Fence, Type I	LF	\$ 5.00	305	\$ 1,525.00	\$1,525.00
21	653.55	Project Demarcation Fence	LF	\$ 1.50	945	\$ 1,417.50	\$1,417.50
22	678.23	Wired Conduit	LF	\$ 30.00	215	\$ 6,450.00	\$6,450.00
23	900.608	Special Provision (Concrete, American Concrete Institute Standard)	CY	\$ 600.00	510	\$ 306,000.00	\$306,000.00
24	900.65	Special Provision (Steel Structure)	LS	\$ 250,000.00	1	\$ 250,000.00	\$250,000.00
<b>Construction Subtotal</b>							<b>\$766,095.00</b>
1		Construction Inspection	LS	\$ 50,000.00	1	\$ 50,000.00	\$50,000.00
<b>Construction Subtotal</b>							<b>\$816,095.00</b>

Notes:

1. Common Excavation consists mostly of the removal of the sand stockpile.
2. Concrete Volume based on the following assumed dimensions: Footings: 9' width, 18" depth; Walls: 15" width, 18' height





# TOWN OF BRIDGEWATER

45 Southgate Loop, Bridgewater VT 05034

802-672-3334 X3

November 9, 2023

Scott Robertson, PE  
Municipal Assistance Section  
Vermont Agency of Transportation  
219 North Main St.  
Barre, VT 05641

RE: Bridgewater TAP 2023 Grant Application

I am pleased to provide a letter of support for the VTrans SFY 2024 TAP Grant Application for a new sand/salt shed to be constructed at the Town Garage off of US4 and VT100A. The Town of Bridgewater currently has a 2019 TAP TA19(11) grant and we are committed to using this grant to mitigate stormwater pollution in the Ottauquechee River watershed in order to improve water quality. The construction of this new shed will help the town highway department with their winter maintenance activities and reduce stormwater runoff and sedimentation entering the Ottauquechee River. The town has completed 60% designs and an associated cost estimate with our design engineer. As is the case nowadays, the costs are coming in higher than expected.

The town is committed to our 20% match and we are excited to have a new building to mix our winter sand and salt. We will be very keen on maintaining it for a long period of use. Please contact me if you have any questions.

Sincerely,

William Young  
Chair, Bridgewater Selectboard

A handwritten signature in blue ink, appearing to read 'William Young', written over a faint blue line.

November 21, 2023

Scott Robertson, PE  
Municipal Assistance Section  
Vermont Agency of Transportation  
219 North Main St.  
Barre, VT 05641

RE: Bridgewater TAP 2023 Grant Application

The Town of Bridgewater currently has a 2019 TAP TA19(11) grant to complete a sand and salt shed along the Ottawaquechee River at their town garage facility. This is a unique opportunity for the town and the state to eliminate runoff from the pile directly into the mainstem of the Ottawaquechee. The town is applying for an enhancement of \$200,600 to support higher construction and inspection costs due to inflation as the original grant was only for \$299,400. This brings the federal portion of the grant to \$500,000 (the maximum for sand sheds). The construction cost is estimated at \$775,000.

As a result, and given the direct water quality benefits to the Ottawaquechee watershed and the long-term savings to the town by properly mixing and storing their salt and sand under cover, TRORC would like to give its highest level of support to this project for this round of municipal mitigation grants. The town has obtained CE this spring has already invested over \$30,000 in engineering design and project management costs to obtain 60% designs. The Town is ready to go to bid for construction season 2024. Supporting this critical transportation and water quality improvement project will be money well spent for the State of Vermont and the Town of Bridgewater.

Thank you for your continued support as well as consideration of this enhancement request. These local grants are a lifeline that help towns complete projects that they would otherwise not be able to address with local funds alone.

Sincerely,



Rita Seto, AICP  
Senior Transportation Planner

Gerald Fredrickson, Chair ~ Peter G. Gregory, AICP, Executive Director  
128 King Farm Rd. Woodstock, VT 05091 ~ 802-457-3188 ~ [trorc.org](http://trorc.org)

Barnard ~ Bethel ~ Bradford ~ Braintree ~ Bridgewater ~ Brookfield ~ Chelsea ~ Corinth ~ Fairlee ~ Granville ~ Hancock ~ Hartford  
Hartland ~ Newbury ~ Norwich ~ Pittsfield ~ Plymouth ~ Pomfret ~ Randolph ~ Rochester ~ Royalton ~ Sharon ~ Stockbridge ~ Strafford  
Thetford ~ Topsham ~ Tunbridge ~ Vershire ~ West Fairlee ~ Woodstock



# INTER-OFFICE MEMORANDUM

AOT - PDB - ENVIRONMENTAL SECTION

## MAB ENVIRONMENTAL DOCUMENTATION CLEARANCE

**TO:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COPY:**

**FROM:**

**PROJECT:** BRIDGEWATER TAP TA19(11)

**FEDERAL APPROVALS:**

Section 106 Determination: \_\_\_\_\_

Section 4(f) Determination: \_\_\_\_\_

Section 6(f) Determination: \_\_\_\_\_

NEPA Documentation: \_\_\_\_\_

**ENVIRONMENTAL COMMITMENTS:** \_\_\_\_\_

**Comments:** \_\_\_\_\_

**It is the responsibility of the project sponsor to comply with state and federal environmental regulations and obtain required state and federal environmental permits.**



**State of Vermont**  
**Agency of Transportation**  
**Environmental Section**  
Barre City Place, 4th Floor,  
219 North Main Street  
Barre City, VT 05641  
<http://vtrans.vermont.gov/>

Mr. Randy Warden  
Division Administrator  
Vermont Division Office  
Federal Highway Administration  
87 State Street, Montpelier, Vermont 05602

April 27, 2023

Attn: FHWA, Environmental Program Manager, via NEPA SharePoint Site  
Re: **Bridgewater TAP TA19(11)-19F125-Sand Shed Construction-Re-evaluation**

Dear Mr. Warden:

A Programmatic Categorical Exclusion (PACE) for the above-mentioned project, per 23 CFR 771.117(c)(22), was issued on 07/19/2022.

Project Bridgewater TAP TA19(11) is located in Bridgewater Corners, VT, at 66 School House Road. This location is also approximately 700' west of VT Route 100A centerline. This site contains the existing town garage and office building, as well as an existing salt storage building.

Work to be performed under this contract includes construction of a new sand/salt shed, all related site work and incidental items as required.

There have been changes in the design of this project since the issuance of the original CE. The design changes include an expanded footprint of the salt shed structure, resulting in grading of surrounding land which will encroach upon the wetland buffer.

The Vermont Agency of Transportation (VTrans) has considered the potential environmental consequences of the project in accordance with the National Environmental Policy Act (NEPA). VTrans has determined that this project meets all of the criteria specified in the Programmatic Agreement entitled "Processing of Projects Eligible for Categorical Exclusion," executed 03/14/19. The project qualifies for Categorical Exclusion pursuant to 23 CFR 771.117(~~---c--~~)(~~---22--~~) "Environmental Impact and Related Procedures - Categorical Exclusions" as the project consists of projects, as defined in 23 U.S.C. 101, that would take place entirely within the existing operational right-of-way. Existing operational right-of-way means all real property interests acquired for the construction, operation, or mitigation of a project. This area includes the features associated with the physical footprint of the project including but not limited to the roadway, bridges, interchanges, culverts, drainage, clear zone, traffic control signage, landscaping, and any rest areas with direct access to a controlled access highway. This also includes fixed guideways, mitigation areas, areas maintained or used for safety and security of a transportation facility, parking facilities with direct access to an existing transportation facility, transportation power substations, transportation venting structures, and transportation maintenance facilities. VTrans has made the determination that the Programmatic Categorical Exclusion remains valid.

This project will not induce significant impacts to planned growth or land use for the area; will not require the relocation of significant numbers of people; will not have a significant impact on any natural, cultural, recreational, historic or other

resource; will not involve significant air, noise, or water quality impacts; will not have significant impacts on travel patterns; and will not otherwise, either individually or cumulatively, have any significant environmental impacts.

VTrans has determined that the FHWA wetland finding contained in the Programmatic Agreement of 03/14/19 is applicable to this project. Impacts to the wetland buffer are anticipated.

Please contact Lee Goldstein, Environmental Specialist @ 802-595-1808 if you require additional information.

Respectfully,  
*Lee Goldstein 04/27/2023*

Lee Goldstein  
VTrans Environmental Specialist

Attachments

cc: Tina Bohl, Project Manager; Project File

## PROGRAMMATIC CATEGORICAL EXCLUSION CRITERIA

VTrans has determined that this project will **NOT**:

- A. X Require a temporary detour outside existing right-of-way, or a temporary wetland or stream crossing which will require non-routine mitigation, or a ramp closure, unless the following conditions are met :
  - (1) provisions are made for access by local traffic and the facility is posted accordingly,
  - (2) businesses dependent upon through traffic will not be unduly affected,
  - (3) the temporary detour or ramp closure will not interfere with local special events,
  - (4) the temporary detour, ramp closure, wetland or stream crossing will not substantially increase the environmental consequences of the action (project).
- B. X Involve construction in wetlands totaling more than 5,000 square feet of permanent impacts, requiring the Army Corp of Engineers to coordinate with resource agencies per the General Permit.
- C. X Require a Risk Analysis for an increase in 100-year flood water surface elevations, per EO 11988.
- D. X Involve construction within, or alter drainage patterns so as to adversely affect, a Sole Source Aquifer.
- E. X Require coordination with the US Fish and Wildlife Service for the preparation of a Biological Assessment for Threatened and Endangered Species, per 16 CFR Section 7.
- F. X Require acquisition of additional right-of-way (including permanent or temporary construction easements) involving: more than three acres of land per mile of roadway, or a total of 10 acres or more for a non-linear improvement (such as a bridge or an intersection), or any relocation of residences or businesses.
- G. X Require FHWA approval for changes in access control.
- H. X Involve acquisition of, or impacts upon Prime or Unique Farmland, unless a USDA Farmland Conversion Impact Rating Part VI Site Assessment has been completed and indicates Total Site Assessment Points less than 160 (doesn't apply to designated urban areas).
- I. X Cause an Adverse Effect to an archaeological or historic resource listed in, or eligible for inclusion in, the National Register of Historic Places.
- J. X Require use (permanent or temporary) of a Section 4(f) resource, unless that use meets the criteria for a de minimis or Programmatic 4(f); or involve the use of a Section 6(f) resource when compensation is required (property acquired or improved using Land and Water Conservation Funds).
- K. X Involve hazardous or residual waste liabilities subject to CERCLA and/or RCRA requirements.
- L. X Require a bridge permit from the US Coast Guard, per 23CFR 650 Subpart H.
- M. X Qualify as a Type I project and require analysis of noise abatement measures, per 23 CFR 772 and the FHWA approved VTrans Noise Policy.
- N. X Require greater than 50% Emergency Relief (ER) funding.  
(NOTE: If coordination with the FHWA was required to reach this determination attach concurrence memo)

**Categorical Exclusion  
Environmental Analysis Sheet**

Town Bridgewater Project No. TAP TA19(11) Route Off of School House Road-VT Route 100A

Project Setting: Urban \_\_\_\_\_ Village \_\_\_\_\_ Rural X  
 Traffic 740 Year 2021 Typical varies  
 AASHTO Functional Classification Major Collector (VT Route 100A)

CRITERIA OF 23 CFR771.117 (C) APPLICABLE? X YES \_\_\_\_\_ NO \_\_\_\_\_

NOTE: PROJECTS THAT MEET THE CRITERIA OF 23 CFR771.17 (C) NEED ONLY ADDRESS THOSE ISSUES MARKED WITH AN ASTERISK (\*). THIS DOES NOT PRECLUDE THE NEED TO OBTAIN APPLICABLE STATE & FEDERAL CONCURRENCES & PERMITS.

1. **Air Quality**

Since the state of Vermont is in attainment for all the National Ambient Air Quality Standards (NAAQS) criteria pollutants (CO, Pb, NO2, O3, SO2, PM10, and PM2.5), the proposed project is exempt from conformity per 40 CFR 93.126 or 40 CFR 93.128 and is also exempt from regional conformity (regional emissions analysis requirements) per 40 CFR 93.127. Such projects may proceed toward implementation even in the absence of a conforming transportation plan and TIP. When completed, the project is not expected to result in any meaningful changes in traffic volumes, vehicle mix, or any other factor that would cause an increase in emissions impacts or contribute to violations of the NAAQS.

Urban intersection improvement Yes \_\_\_\_\_ No \_\_\_\_\_  
 Project Level-of-Service (LOS) degrading to D, E, or F Yes \_\_\_\_\_ No \_\_\_\_\_  
 [If "Yes" to both, then attach the Carbon Monoxide (CO) Hot-spot Analysis]

2. **Noise**

Type I Project (VTrans Noise Policy) Yes \_\_\_\_\_ No \_\_\_\_\_  
 If yes, number of receptors impacted \_\_\_\_\_  
 Mitigation Requirements \_\_\_\_\_

3. **Water Quality**

Lakes or Ponds

VANR Lakes & Ponds permit Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_

Rivers or Streams

VANR Title 19 Consultation Yes \_\_\_\_\_ No \_\_\_\_\_ Completed \_\_\_\_\_

Wild/ Scenic River Consultation Yes \_\_\_\_\_ No \_\_\_\_\_ Completed \_\_\_\_\_

Wetlands

\* Wetland Impact area Temporary 0 Permanent 0

\* Buffer Impact area Temporary TBD Permanent TBD

\* VANR Wetland Permit Yes X No \_\_\_\_\_ Acquired Municipality to acquire

401 Water Quality Certification Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_

Stormwater Discharge Permit Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_

Floodplains Encroachment Yes \_\_\_\_\_ No \_\_\_\_\_

Flood Hazard Area/

River Corridor Permit Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_

Describe Hydraulic Changes \_\_\_\_\_

Ground Water/Surface Water/Well Impacts Yes \_\_\_\_\_ No \_\_\_\_\_

Describe/ VANR Comments \_\_\_\_\_

4. **U.S. Army Corps of Engineers**

Section 10 and/or Section 404 Permit Required Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_

Permit Type \_\_\_\_\_  
COE Comments \_\_\_\_\_

5. **U.S. Coast Guard**

Navigable Waters Yes \_\_\_\_\_ No \_\_\_\_\_ Involved Waterway \_\_\_\_\_  
Rivers & Harbors Act Section 9 and/or  
Bridge Act of 1946 Permit(s) Required Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_  
Section 144(c) "Exemption" Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_  
USCG Comments \_\_\_\_\_

\* 6. **Threatened and Endangered Species and Habitat**

Present in Project Area Yes  No \_\_\_\_\_  
ANR Non-Game and Natural Heritage Program comments none at this time  
USF&WS comments none at this time  
See VTrans Biologist Natural Resource Clearance update email dated 04/27/2023.

7. **Agricultural Land [Farmland Policy Protection Act]**

Project located in Federal-aid Urban Area Yes \_\_\_\_\_ No \_\_\_\_\_  
Prime/secondary/locally important soils present Yes \_\_\_\_\_ No \_\_\_\_\_  
Describe Impacts/Comments \_\_\_\_\_  
Current land use (land in agricultural use) \_\_\_\_\_  
Form 1006 Parts 1, III, VI, VII, completed (FHWA) Yes \_\_\_\_\_ No \_\_\_\_\_  
Form 1006 Parts II, IV, V completed (NRCS) Yes \_\_\_\_\_ No \_\_\_\_\_  
Vermont Department of Agriculture comments \_\_\_\_\_

\*8. **Hazardous/ Residual Waste Liabilities**

Present in project area Yes  No \_\_\_\_\_  
Determination from VANR Atlas Yes  No \_\_\_\_\_  
Determination from field visit Yes \_\_\_\_\_ No   
Borings completed Yes \_\_\_\_\_ No   
Petroleum related wastes Yes \_\_\_\_\_ No   
CERCLA involvement Yes \_\_\_\_\_ No   
Remediation required Yes \_\_\_\_\_ No

Describe There is a mapped hazardous waste generator within the project area per the ANR Natural Resources Atlas online mapping 07/14/222. See ANR Natural Resource Atlas Map.

**Hazardous Waste Sites general language**

-A known hazardous generator site is located in the proposed project limits, Bridgewater Town Highway Dept. (See ANR documents in the folder). There is not a significant likelihood for hazardous waste to be encountered during ROW and/ or excavation on this project, so coordination with he Hazard Waste Coordinator is not recommended.

\* 9. **Historical or Archaeological Resources (Section 106)**

Historic Resources: Present in APE Yes \_\_\_\_\_ No  Exempt \_\_\_\_\_  
Archeological Resources: Present in APE Yes \_\_\_\_\_ No  Exempt \_\_\_\_\_  
Section 106 Determination 'No Historic Properties Affected' issued 03/17/2022; confirmation 04/25/2023.  
See Section 106 Memorandum for additional information.  
Programmatic/ Memorandum of Agreement needed Yes \_\_\_\_\_ No  Executed \_\_\_\_\_  
SHPO coordination completed n/a per 2021 PA  
Advisory Council coordination completed n/a



\* 10. **Section 4(f) Resources**  
 Section 4(f) Resource(s) present in project area Yes \_\_\_\_\_ No X  
 Nature of Section 4(f)  
 Parks/Rec. Areas \_\_\_\_\_ Wildlife and Waterfowl Refuge \_\_\_\_\_ Historic Property \_\_\_\_\_  
 Temporary impact to a 4(f) resource Yes \_\_\_\_\_ No X  
 Permanent use of 4(f) resource Yes \_\_\_\_\_ No X  
 Section 4(f) Approval (check one)  
 Negative Declaration \_\_\_\_\_ de minimis 4(f) \_\_\_\_\_ Programmatic 4(f) \_\_\_\_\_ Circulated 4(f) \_\_\_\_\_  
 Section 4(f) Comments There aren't any 4(f) resources within the project limits.

\*11. **6(f) Resources**  
 Section 6(f) involvement (LWCF Funding) Yes \_\_\_\_\_ No X  
 National Park Service Conversion Approval n/a  
 Section 6(f) Comments There aren't any 6(f) resources within the project limits.

\* 12. **Right of Way**  
 New ROW Acquisition fee simple Yes \_\_\_\_\_ No X  
 permanent easement Yes \_\_\_\_\_ No X  
 temporary easement Yes \_\_\_\_\_ No X  
 Description of taking n/a  
 Improved properties acquired Yes \_\_\_\_\_ No X  
 Displacements Rental Units 0 Private Homes 0 Businesses 0  
 Relocation services to be provided n/a  
 Properties available for relocation n/a

13. **Public Participation Opportunity**  
 Pre-Design Site Meeting Yes \_\_\_\_\_ No \_\_\_\_\_ Date \_\_\_\_\_  
 Public Information Meeting Yes \_\_\_\_\_ No \_\_\_\_\_ Date \_\_\_\_\_  
 Public Hearing Required (502) Yes \_\_\_\_\_ No \_\_\_\_\_ Date \_\_\_\_\_  
 Comments by Local Officials/RPC's \_\_\_\_\_

14. **Social and Economic Concerns**  
 Project consistent with Local and Regional Land Use Plans Yes \_\_\_\_\_ No \_\_\_\_\_  
 Describe if not, what is inconsistent? \_\_\_\_\_  
 Act 250 Permit or Amendment Yes \_\_\_\_\_ No \_\_\_\_\_ Acquired \_\_\_\_\_  
 Neighborhood and Community Concerns Yes \_\_\_\_\_ No \_\_\_\_\_  
 \_\_\_\_\_ Churches \_\_\_\_\_ Elderly  
 \_\_\_\_\_ Schools \_\_\_\_\_ Handicapped  
 \_\_\_\_\_ Low Income Housing \_\_\_\_\_ Environmental Justice Exec. Order 12898  
 \_\_\_\_\_ Emergency Services \_\_\_\_\_ Other  
 Describe \_\_\_\_\_  
 Effect on local business Yes \_\_\_\_\_ No \_\_\_\_\_ (Describe) \_\_\_\_\_  
 Temp. effect on business Yes \_\_\_\_\_ No \_\_\_\_\_ (Describe) \_\_\_\_\_  
 Loss of parking Yes \_\_\_\_\_ No \_\_\_\_\_ (Describe) \_\_\_\_\_  
 Pedestrian Facilities Sidewalk Widths Existing \_\_\_\_\_ Proposed \_\_\_\_\_  
 Bicycle Facilities Paved Shoulder Widths Existing \_\_\_\_\_ Proposed \_\_\_\_\_  
 If not minimum standard (sidewalk 5ft, paved shoulder 4ft), explain \_\_\_\_\_

15. **Aesthetic Considerations**  
 Scenic Byway/VT Scenic Highway Yes \_\_\_\_\_ No \_\_\_\_\_

Describe \_\_\_\_\_  
Comments \_\_\_\_\_

16. **Effects of Temporary Detour/Bridge**

Detour required Yes \_\_\_\_\_ No \_\_\_\_\_ Additional Length \_\_\_\_\_ (Attach Plans)  
Temporary bridge required Yes \_\_\_\_\_ No \_\_\_\_\_  
Impacts of Detour/Bridge \_\_\_\_\_  
Local Government coordination Yes \_\_\_\_\_ No \_\_\_\_\_ Comments \_\_\_\_\_

**Field Inspection Comments** \_\_\_\_\_ See supporting documentation.

**Summary of Commitments and Mitigation**

Describe

Threatened and Endangered Species and Habitat.

The Contractor shall ensure all personnel working on the project site are made aware of the potential presence and protected status of the northern long-eared bat. No suitable bat habitat is present within the project limits and no Time-of-Year (TOY) restrictions are required.

The Contractor is hereby made aware of the potential for TOY restrictions related to proposed Waste, Borrow and Staging areas. Cutting trees  $\geq 3$  inches in diameter outside of the contract project limits shall require review under Section 105.26 Opening Off-Site Activity Areas.

**Emerald Ash Borer.**

As of 2018, emerald ash borer (EAB), *Agrilus planipennis*, has been confirmed within Vermont's borders. To provide an assurance of compliance with state and federal EAB laws the contractor shall adhere to the following:

Known EAB infestation areas are changing rapidly. Therefore the Contractor shall consult the online version of the EAB Infested Area Map (Located here: [www.vtinvasives.org/land/emerald-ash-borer-vermont](http://www.vtinvasives.org/land/emerald-ash-borer-vermont)) on the same day cutting is to occur. If the project is located with an EAB infested area, ALL tree material, regardless of species, within the project area shall be handled in accordance with a document developed by the Vermont Department of Forests, Parks and Recreation and the Vermont Agency of Agriculture titled "Recommendations to SLOW THE SPREAD of Emerald Ash Borer When Moving Ash from the Infested Area", <https://vtinvasives.org/sites/default/files/images/SlowSpreadWoodVT.pdf>. Tree material shall not be moved out of state.

Alternatively, the Contractor may choose to hire a qualified professional (Arborist certified by the International Society of Arboriculture or Licensed Forester), at their own expense, to identify the presence of ash trees. Those identified ash trees would be subject to the above referenced recommendations, however other tree species would not.

The Contractor is also hereby made aware of the same potential restrictions as they relate to proposed Waste, Borrow and Staging areas under Section 105.25 Control of Waste, Borrow, and Staging Areas.

Prepared by: Lee Goldstein 04/27/2023 Reviewed by: Julie Ann Held 04/27/2023  
Signature Date Signature Date



RIGHT OF WAY CERTIFICATE

DATE:

PROJECT:

PPMS #:

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This is to certify that the right of way has been or will be acquired in accordance with Vermont State Statute, the Uniform Relocation Assistance Real Property Acquisition Policies Act of 1970 as amended and Title 23 of the Code of Federal Regulations, Part 635 (when applicable) and the status of the right of way is as follows:

- No acquisitions of land or rights was necessary since all construction will be within the existing controlled right of way. Use of non-controlled right of ways will be allowed through executed agreements or approved permits.
- Pursuant to 23 CFR 635.309(c)(1) and/or (2), all the acquisitions of land and rights have been completed including legal and physical possession and/or the right to occupy and to use all rights of way required for the proper execution of the project has been acquired.
- Pursuant to 23 CFR 635.309(c)(3), all the necessary right of way has not been acquired, however, the acquisitions are being progressed and all legal and physical possession will be completed prior to award of the construction contract.

Comments:

APPROVED:

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Trey Polk, Right of Way Acquisitions Manager

Distribution

Nick Wark, Right of Way and Environmental Program Manager

Marvin D. Kingsbury, Programming Engineer, Planning

Craig Keller, Chief of Permits

Anthony Davis, Finance & Administration

Meredith Asselin, Finance & Administration

Elizabeth Shipley, FHWA

ROW Admin for OnBase



## GENERAL NOTES

### GENERAL CONDITIONS

- THE PROJECT AND PROPERTY OWNER IS THE TOWN OF BRIDGEWATER. AN OWNER'S REPRESENTATIVE WILL BE APPOINTED PRIOR TO CONSTRUCTION TO REPRESENT THE OWNER AND PROVIDE DIRECTION DURING THE PROJECT.
- SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET. A SET OF CONSTRUCTION PLANS AND TECHNICAL SPECIFICATIONS SHALL BE ON SITE AND IN GOOD CONDITION AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- ALL PRIVATE PROPERTY OWNER COMMUNICATION SHALL BE CONDUCTED THROUGH THE OWNER'S REPRESENTATIVE, IF NECESSARY. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL REVIEW CONDITIONS OF ENTRY AND ABIDE BY THEM.
- CONTRACTOR SHALL INSTALL PROJECT DEMARCATION FENCE PRIOR TO START OF CONSTRUCTION, AND THERE SHALL BE NO DISTURBANCE BEYOND THE LIMITS OF FENCE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY DUBOIS & KING INC. DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HERE ON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR OTHER AGENCIES WITH AUTHORITY OVER THE PROJECT.
- CONTRACTOR SHALL LAY OUT THE CONSTRUCTION BASELINES, STAKE OUT LIMITS OF PROPOSED WORK AND REVIEW WITH THE ENGINEER PRIOR TO CONSTRUCTION. ALL APPLICABLE EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ITS LATEST REVISIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING AND DEWATERING REQUIREMENTS NEEDED FOR THE PROJECT IN ACCORDANCE WITH REGULATIONS AND PERMIT REQUIREMENTS.
- WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR TECHNICAL SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
- LOCATE STAGING AREAS AWAY FROM SENSITIVE AREAS INCLUDING WETLANDS AND STREAM BUFFERS IN COMPLIANCE WITH REGULATIONS AND PERMIT REQUIREMENTS
- TO LIMIT INADVERTENT DAMAGE TO AND UNAUTHORIZED REMOVAL OF TREES ADJACENT TO THE WORK AREA, CONTRACTOR SHALL COORDINATE WITH OWNER AND OBTAIN APPROVAL PRIOR TO CUTTING OR TRIMMING TREES WITHIN AND ADJACENT TO THE WORK AREA.
- IN CASE OF DISCREPANCY, REFER TO CONTRACT DOCUMENT PRECEDENCE IN THE VTRANS 2018 STANDARD SPECIFICATIONS FOR CONSTRUCTION, OR REFER TO APPLICABLE CODE, STANDARD, OR REGULATION, IF APPROPRIATE.
- VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING OF MATERIAL, OR PERFORMING ANY WORK. NOTIFY THE ENGINEER OF ANY CONDITIONS OR DIMENSIONS THAT WOULD PREVENT OR HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- THE PHRASES "REMOVE AND REPLACE" OR "REMOVE AND INSTALL" SHALL MEAN REMOVE EXISTING CONSTRUCTION AND REPLACE WITH NEW CONSTRUCTION MATERIALS AS NOTED ON THE DRAWINGS AND/OR SPECIFIED.

### EXISTING INFORMATION

- TOPOGRAPHIC SITE FEATURE INFORMATION WITHIN APPROXIMATE SURVEY BOUNDARY BASED ON GROUND SURVEY PERFORMED BY DUBOIS & KING, INC. ON JANUARY 19, 2021.
- TOPOGRAPHIC INFORMATION OUTSIDE APPROXIMATE SURVEY BOUNDARY BASED ON LIDAR DATA OBTAINED FROM VERMONT CENTER FOR GEOGRAPHIC INFORMATION (VCGI) ON DECEMBER 1, 2020 (SOURCE DATE OCTOBER 31, 2016). ELEVATION DATUM IS NAVD88.
- THE LOCATION AND EXTENT OF UTILITIES SHOWN ON THE SITE DRAWINGS ARE BASED ON AVAILABLE INFORMATION. DUBOIS & KING, INC INCLUDES INFORMATION WITHOUT WARRANTING ITS ACCURACY IN ANY WAY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHOULD NOTE THE OVERHEAD POWER LINES ALONG VERMONT ROUTE 100A, SCHOOLHOUSE ROAD, AND ON THE PROPERTY SHALL NOT BE DISTURBED DURING THE COURSE OF THE PROJECT. THE OWNER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION SHALL BE DETERMINED AND AGREED UPON BY OWNER OR OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH WORK.
- WETLAND BOUNDARY AND 50-FOOT WETLAND BUFFER BOUNDARY WERE DELINEATED ON MAY 18, 2021 BY A DUBOIS & KING WETLAND SCIENTIST CERTIFIED IN THE STATE OF VERMONT.
- THE CONTRACTOR SHALL FAMILIARIZE THEMSELV WITH THE EXISTING CONDITIONS OF THE SITE AND SURROUNDINGS PRIOR TO THE START OF ANY CONSTRUCTION.
- PARCEL BOUNDARY INFORMATION DOWNLOADED FROM VCGI ON DECEMBER 1, 2020. SOURCE DATE JANUARY 23, 2018.
- RIVER CORRIDORS BASED ON INFORMATION DOWNLOADED FROM VCGI ON DECEMBER 1, 2020. SOURCE DATE OCTOBER 2019.
- ROAD CENTERLINES BASED ON INFORMATION DOWNLOADED FROM VCGI ON DECMEBER 1, 2020. SOURCE DATE FEBRUARY 13, 2018. EDGE OF ROADWAY WAS DIGITIZED BASED ON ROADWAY WIDTH INFORMATION EMBEDDED IN ROADWAY CENTERLINE DATA.

### CODES & PERMITS

- THE FOLLOWING PERMITS ARE BEING SECURED FOR THIS PROJECT:
  - TOWN OF BRIDGEWATER ZONING PERMIT
  - STATE OF VERMONT FIRE SAFETY PERMIT
- THE CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH THE REQUIREMENTS OF THE PERMITS FOR COMPLIANCE DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE PERMITS ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK IN STRICT ACCORDANCE WITH ALL MUNICIPAL, STATE, & FEDERAL ORDINANCES, CODES, RULES, AND LAWS HAVING JURISDICTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK WHICH MANY NOT COMPLY COMPLETELY WITH ALL MUNICIPAL, STATE, & FEDERAL ORDINANCES, CODES, RULES, AND LAWS HAVING JURISDICTION. THESE MAY INCLUDE, BUT ARE NOT LIMITED TO:
  - STATE OF VT ENVIRONMENTAL PROTECTION RULES, CHAPTER 30
  - VERMONT FIRE AND BUILDING CODE, 2015 EDITION
  - THE AMERICAN DISABILITY ACT WITH REGARDS TO DIMENSIONS AND GRADES
  - VERMONT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
  - TOWN PERMITS AS REQUIRED.

### UTILITY & EXCAVATION

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING ALL UTILITIES (ABOVE AND BELOW GROUND) WITHIN THE PROJECT LIMITS, AND TO TAKE THE NECESSARY PRECAUTIONS TO PROTECT UTILITIES DURING CONSTRUCTION. CONTACT DIG-SAFE AT 1-800-DIG-SAFE (WWW.DIGSAFE.COM) A MINIMUM OF 72 HOURS BEFORE GROUND DISTURBANCE. ALL DISTURBANCE OR DAMAGE TO UTILITIES BY CONTRACTOR ACTIVITIES WILL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL REPAIRS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OR MUNICIPALITY (TOWN OF BRIDGEWATER PHONE NUMBER: 802-672-5379).
- CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UTILITY RELOCATION AND INSTALLATION WITH THE APPROPRIATE UTILITY. THE APPROPRIATE UTILITY OR ITS AUTHORIZED REPRESENTATIVE WILL PERFORM ADJUSTMENTS OF ALL UTILITY STRUCTURES.
- ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE PLANS. UTILITIES SHALL BE MAINTAINED IN ACTIVE OPERATION AT ALL TIMES. PROVIDE BYPASS PIPING AND PUMPING WHERE REQUIRED. ALL NEW UTILITY SYSTEMS SHALL BE OPERATIONAL BEFORE ANY EXISTING SYSTEMS ARE ABANDONED OR REMOVED. IF EXISTING UTILITIES ARE TAKEN OUT OF SERVICE FOR CONNECTIONS, THE TIMING SHALL BE APPROVED BY THE ENGINEER.
- THE LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE.
- VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE WORK PRIOR TO CONSTRUCTION.
  - EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING POWER, COMMUNICATIONS, WATER OR GAS LINES TO PREVENT DAMAGE TO THESE LINES.
  - IMMEDIATELY REPAIR ANY DAMAGE TO EXISTING UTILITIES IN A MANNER APPROVED BY THE ENGINEER, AT NO COST TO THE OWNER.
  - ENSURE THAT ALL PIPES, CATCH BASINS, MANHOLES, SWALES, ETC. WITHIN AND NEAR THE AREA OF WORK ARE KEPT FREE FROM MATERIAL THAT WOULD HAMPER THE PERFORMANCE OF THE DRAINAGE SYSTEMS. FURNISH AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES AS SHOWN ON THE CONTRACT DRAWINGS. UPON COMPLETION OF CONSTRUCTION, REMOVE ACCUMULATED SEDIMENT AND REMOVE CONTROL DEVICES.

### MEETINGS, SUBMITTALS AND REQUIRED INSPECTIONS

- THE CONTRACTOR SHALL PARTICIPATE IN AN ON-SITE PRE-CONSTRUCTION CONFERENCE. PRIOR TO CONSTRUCTION ACTIVITY INCLUSIVE OF MOBILIZATION.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER MATERIAL SLIPS FOR ALL MATERIALS AND ITEMS USED ON THE PROJECT PURSUANT TO THE TECHNICAL SPECIFICATIONS.
- THE OWNER'S REPRESENTATIVE WILL BE REQUIRED TO OBSERVE AND APPROVE CRITICAL ASPECTS OF THE CONSTRUCTION PRIOR TO EXECUTION. THE CRITICAL ITEMS LIST WILL BE DISCUSSED AT THE PRE-CONSTRUCTION CONFERENCE. FAILURE OF THE CONTRACTOR TO PROVIDE THE OWNER'S REPRESENTATIVE WITH A MINIMUM OF 48-HOUR NOTICE MAY RESULT IN DELAYS TO THE PROJECT AT NO ADDITIONAL COST TO THE OWNER. SHOULD CRITICAL ITEMS BE CONSTRUCTED PRIOR TO APPROVAL, THE OWNER'S REPRESENTATIVE MAY DIRECT FOR REMOVAL AND RECONSTRUCTION.

### RESTORATION OF SURFACES

- AT THE COMPLETION OF WORK, THE CONTRACTOR MUST RESTORE ACCESS ROADS, TOWN HIGHWAYS AND STAGING AREAS TO PRE-CONSTRUCTION CONDITION. RESTORATION MAY INCLUDE BUT NOT LIMITED TO PLACEMENT OF PAVEMENT OR GRAVEL ON EXISTING DRIVES AND /OR APPLICATION OF TOPSOIL, GRASS SEED, FERTILIZER, AND MULCH TO AFFECTED GRASSED AREAS.

### SITE MAINTENANCE

- CONTRACTOR SHALL APPLY WATER TO SITE AREAS TO SUPPRESS POTENTIAL FUGITIVE DUST EMISSIONS, IF NEEDED.
- PREVENT WATER PONDING RESULTING FROM CONSTRUCTION OPERATIONS. PROMPTLY REMOVE ANY PONDED WATER TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIALS FROM THE PROPERTY AND RESTORE THE "CONTRACTORS MATERIAL AND EQUIPMENT STAGING AREA" TO ITS ORIGINAL CONDITION, AS APPROVED BY THE OWNER'S REPRESENTATIVE.

## CIVIL NOTES

### GRADING

- SUITABLE EXCAVATED ON-SITE MATERIAL SHALL BE UTILIZED IN LOCATIONS THAT REQUIRE FILL OR BACKFILL.
- ANY EXCESS MATERIAL TO BE DISPOSED OF OFF SITE SHALL BE REMOVED AT NO ADDITIONAL COST UNLESS OTHERWISE APPROVED IN ADVANCE BY THE ENGINEER. MATERIAL SHALL BE DISPOSED OF IN AN APPROVED LOCATION AWAY FROM WETLANDS, FLOODPLAIN, OR OTHER SENSITIVE AREAS.
- ALL REMOVED TOPSOIL SHALL BE SCREENED AND STOCK PILED FOR FUTURE REUSE. CONTRACTOR SHALL NOT MIX ANY WOODY VEGETATION, TREE STUMPS, ROOTS OR OTHER NON-SUITABLE MATERIAL WITH THE STOCK PILED TOPSOIL.
- COMPACTION TESTING IS REQUIRED ON BACKFILL AREAS. REFER TO APPLICABLE DETAILS.
- PLACE 4 INCHES MINIMUM OF TOPSOIL AND SEED ON DISTURBED AREAS.

### DRAINAGE

- WHERE A STORMWATER COLLECTION, CONVEYANCE AND TREATMENT INFRASTRUCTURE, IF ANY, IS TO BE CONSTRUCTED, VERIFY THE LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION

## SOIL EROSION & SEDIMENTATION CONTROL

- THIS PROJECT MAY QUALIFY AS A LOW RISK CONSTRUCTION PROJECT AND SHALL FOLLOW THE LOW RISK SITE HANDBOOK (2019) AT A MINIMUM.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL FACILITIES PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, ITEMS IDENTIFIED WITHIN THIS PLAN SET OR WITHIN THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION (VTDEC) BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION CONTROL. SEE EROSION AND SEDIMENTATION CONTROL PLAN AND EROSION SEDIMENTATION CONTROL NOTES & DETAIL SHEET.
- THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL DEVICES THROUGHOUT THE PROJECT SITE FOR THE DURATION OF ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL (DAILY OR AS REQUIRED BASIS) INSPECT AND RECORD FINDINGS OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES TO ENSURE THAT ALL ITEMS ARE IN STABLE CONDITION. IN THE EVENT THAT SAID ITEMS ARE DETERMINED TO BE IN UNSATISFACTORY CONDITION, THE CONTRACTOR SHALL RECORD THE UNSATISFACTORY ISSUE, THE DATE OF THE UNSATISFACTORY FINDING, THE APPROPRIATE CORRECTIVE MEASURE AND THE DATE THE CORRECTIVE MEASURE WAS COMPLETED.
- ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF INITIAL DISTURBANCE TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN-KIND UPON COMPLETION OF THE PROJECT.
- ALL SLOPES GREATER THAN 1V:3H SHALL BE PROTECTED FROM EROSION WITH ROLLED EROSION CONTROL PRODUCT. OTHER APPROPRIATE SLOPE STABILIZATION CONTROL MEASURES SHALL BE USED AS NEEDED WITHIN 48 HOURS OF COMPLETION PRIOR TO TOPSOIL, SEEDING AND MULCHING. CONTRACTOR SHALL MAINTAIN EROSION CONTROL PROTECTION UNTIL VEGETATION GROWTH HAS BEEN ESTABLISHED. ALL SLOPE STABILIZATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND VERMONT BEST MANAGEMENT PRACTICES.
- ALL SWALES AND DITCHES WITH SLOPES EXCEEDING 5% SLOPE SHALL BE PROTECTED FROM EROSION WITH ROLLED EROSION CONTROL PRODUCT (RECP). ALL RECP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. ALL SWALES AND DITCHES SHALL BE PROPERLY STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
- THE CONTRACTOR SHALL NOT PLACE PERMANENT PLANTING AND SEEDING PRIOR TO MAY 1st AND AFTER SEPTEMBER 1st. TEMPORARY SEEDING SUCH AS WINTER RYE MAY BE USED OUTSIDE OF THIS PERIOD UNTIL PERMANENT SEEDING CAN BE PLACED.
- ALL WORK MUST BE DONE IN A MANNER WHICH MINIMIZES THE POTENTIAL FOR THE DISCHARGE OF SEDIMENT-LADEN WATER. CONTRACTOR IS RESPONSIBLE FOR DIVERTING, PUMPING, OR OTHERWISE CONTROLLING WATER AS NECESSARY.
- ANY EPSC MEASURES UTILIZED BY THE CONTRACTOR, BUT NOT SHOWN IN THIS PLAN SET, SHALL BE PERFORMED IN ACCORDANCE WITH THE VERMONT DEC LOW RISK SITE HANDBOOK FOR EROSION PREVENTION & SEDIMENT CONTROL.

### WINTER CONSTRUCTION:

SITE CONSTRUCTION MAY CONTINUE THROUGH THE WINTER MONTHS ON THIS PROJECT. IT IS IMPERATIVE THAT ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES BE IN PLACE AND FUNCTIONING TO ENSURE THEIR EFFECTIVENESS THROUGH THE WINTER AND SPRING SEASON. WINTER IN VERMONT CAN DIMINISH THE EFFECTIVENESS OF CONTROLS AND PREDISPOSE A SITE TO SEVERE EROSION AND SEDIMENTATION. DISTURBED AND BARE SOIL THAT IS WELL-FROZEN IS QUITE RESISTANT TO EROSION. HOWEVER, SEVERE EROSION OCCURS DURING THE MIDWINTER AND SPRING THAWS WHEN MELTING SNOW, THAWING SOILS AND HEAVY RAINS PRODUCE INTENSE RUNOFF OVER SATURATED UNSTABLE SOILS. FOR THESE REASONS, SOIL DISTURBANCES SHALL BE ESTABLISHED BY PRIOR TO THE START OF THE WINTER CONSTRUCTION SEASON (OCTOBER, 15TH). ALL EARTHWORK CONTINUING DURING THE WINTER CONSTRUCTION SEASON SHALL BE STABILIZED IN ACCORDANCE WITH THE STATE OF VERMONT EROSION PREVENTION AND SEDIMENT CONTROL REQUIREMENTS FOR WINTER CONSTRUCTION.

### INSPECTION AND MAINTENANCE:

INSPECT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MORE FREQUENTLY IN THE WINTER AND SPRING THAN IN THE SUMMER. PAY CAREFUL ATTENTION TO WEATHER PREDICTIONS. WATCH FOR PREDICTED THAWS OR HEAVY RAINS. BEFORE SUCH EVENTS, CHECK ALL CONTROL MEASURES TO BE SURE THAT STRUCTURES WILL MANAGE THE POTENTIALLY HEAVY AND INTENSE RUNOFF AND SEDIMENT. PRACTICALLY CONSTANT MAINTENANCE OF CRITICAL CONTROL MEASURES MAY BE NECESSARY DURING THE WINTER AND EARLY SPRING TO PREVENT FAILURE OR OVERLOADING OF CONTROL MEASURES. BE PREPARED TO QUICKLY INSTALL A SECOND LINE OF DEFENSE IF PROBLEMS OCCUR. BE PREPARED TO DEVOTE A SUBSTANTIAL AMOUNT OF TIME, EQUIPMENT AND MANPOWER TO EROSION PREVENTION AND SEDIMENT CONTROL.

### FOLLOW-UP:

AS EARLY AS IS PRACTICAL, AT THE BEGINNING OF THE NEXT GROWING SEASON, INSTALL PERMANENT VEGETATIVE CONTROLS AS SPECIFIED IN THIS EPSC PLAN.

### DEWATERING PROCEDURE:

DEWATERING WILL BE ACCOMPLISHED BY PLACEMENT OF CRUSHED STONE FILLED SUMPS IN LOW AREAS OF THE FOUNDATION EXCAVATION. WATER WILL BE PUMPED FROM THESE SUMPS THROUGH A SEDIMENTATION DEVICE AND DISCHARGE INTO THE STORMWATER PRACTICE. THE DETAILS OF DEWATERING, INCLUDING THE NUMBER AND LOCATION OF SUMPS; THE TYPE, NUMBER AND LOCATION OF THE SEDIMENTATION DEVICE(S) AND THE ASSOCIATED DISCHARGE POINTS AND OPERATING PROCEDURES WILL DEPEND ON THE CONDITIONS ENCOUNTERED DURING CONSTRUCTION, AS WELL AS THE SEASONAL WEATHER CONDITIONS. A PLAN WHICH DETAILS THE DEWATERING SYSTEM AND PROCEDURES WILL BE PROVIDED FOR REVIEW AND APPROVAL BY THE ON-SITE COORDINATOR PRIOR TO ITS IMPLEMENTATION.



ENGINEERING • PLANNING •  
MANAGEMENT • DEVELOPMENT  
28 NORTH MAIN ST.  
RANDOLPH, VT 05080  
TEL: (802) 728-3376  
FAX: (802) 783-7101  
www.dubois-king.com  
SO. BURLINGTON, VT  
SPRINGFIELD, VT  
BEDFORD, NH  
LACONIA, NH  
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PROFESSIONAL SEAL

**60% DESIGN  
PLANS**

**NOT FOR  
CONSTRUCTION**

NO.	DATE	DESCRIPTION	BY	CKD

TOWN OF  
BRIDGEWATER  
7335 US-4  
BRIDGEWATER, VT

TOWN OF  
BRIDGEWATER  
SAND SHED  
CONSTRUCTION  
TAP TA19(11)

BRIDGEWATER  
CORNERS, VT

SHEET TITLE

GENERAL  
NOTES

DRAWN BY CJR	DATE NOV. 2023
CHECKED BY ATH	D&K PROJECT # 126462
PROJ. ENG. CJR	D&K ARCHIVE #

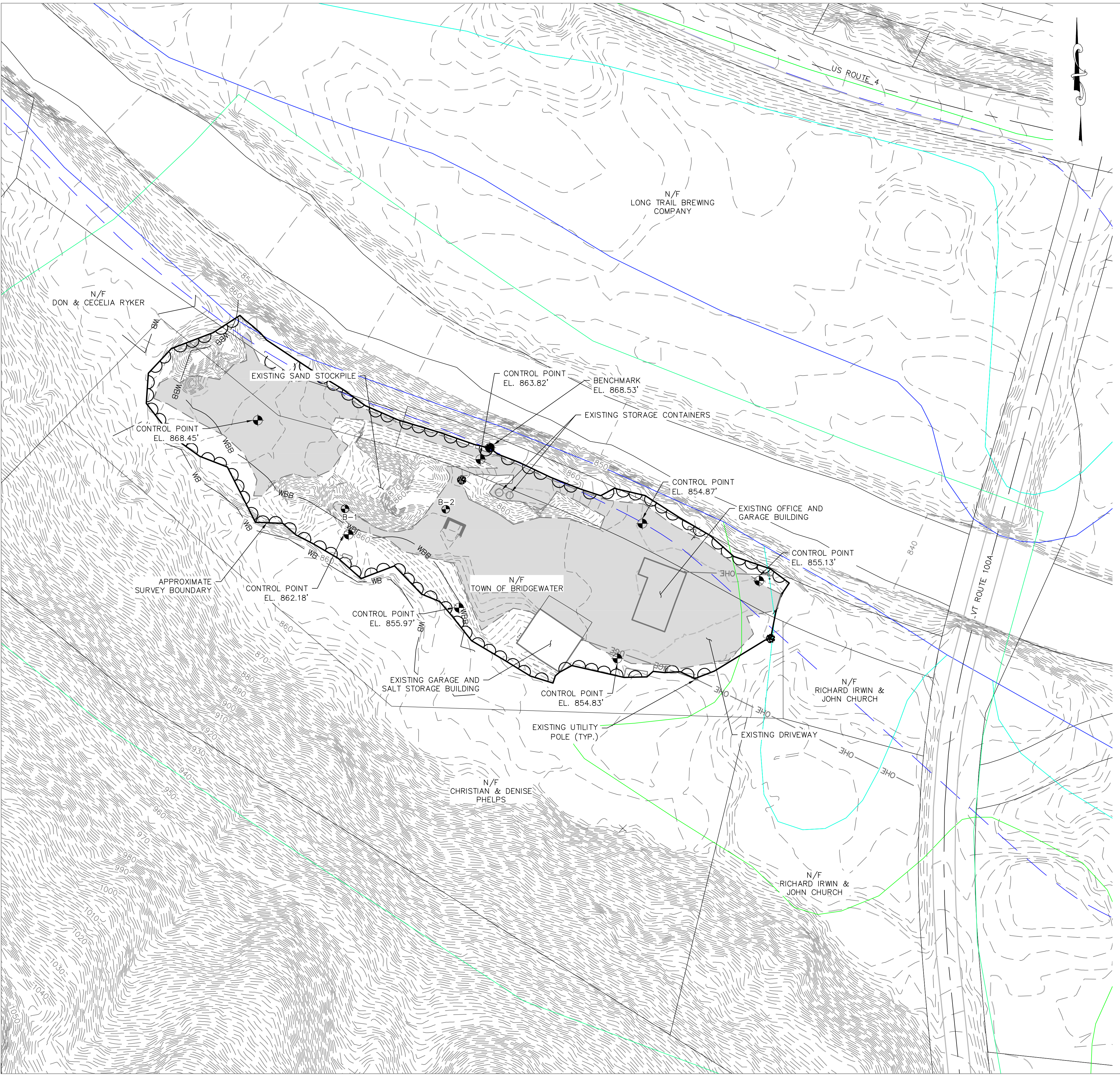
SHEET NUMBER

**C2**

SHEET 2 OF 10



I:\1\126462 Bridgewater Sand Shed\Drawings\CAD\Concept Plans\20210122 Existing Conditions Plan.dwg 11/14/2023 6:00 PM LAYOUT TAB: 22X34 LANDSCAPE



**NOTES:**  
1. SEE SHEET C2 FOR ADDITIONAL NOTES

**LEGEND:**

	5-FOOT SURVEY CONTOURS
	1-FOOT SURVEY CONTOURS
	5-FOOT LIDAR CONTOURS
	1-FOOT LIDAR CONTOURS
	EXISTING EDGE OF GRAVEL DRIVE
	APPROXIMATE ROAD CENTERLINE
	APPROXIMATE EDGE OF ROAD
	APPROXIMATE PARCEL BOUNDARY LOCATION
	EXISTING TREELINE
	EXISTING TREE
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITY
	EXISTING UNDERGROUND UTILITY
	EXISTING WETLAND BOUNDARY
	EXISTING WETLAND BUFFER BOUNDARY
	APPROXIMATE RIVER CORRIDOR
	APPROXIMATE FLOODWAY
	APPROXIMATE FLOOD HAZARD AREA ZONE AE (BASE FLOOD ELEVATION)
	APPROXIMATE FLOOD HAZARD AREA ZONE X (0.2% ANNUAL CHANCE FLOOD HAZARD)
	SURVEY BOUNDARY
	SURVEY CONTROL POINT/BENCHMARK



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**60% DESIGN PLANS**  
**NOT FOR CONSTRUCTION**

NO.	DATE	DESCRIPTION	BY	CKD

TOWN OF BRIDGEWATER  
7335 US-4  
BRIDGEWATER, VT

TOWN OF BRIDGEWATER  
SAND SHED CONSTRUCTION  
TAP TA19(11)  
BRIDGEWATER CORNERS, VT

SHEET TITLE  
**EXISTING CONDITIONS PLAN**

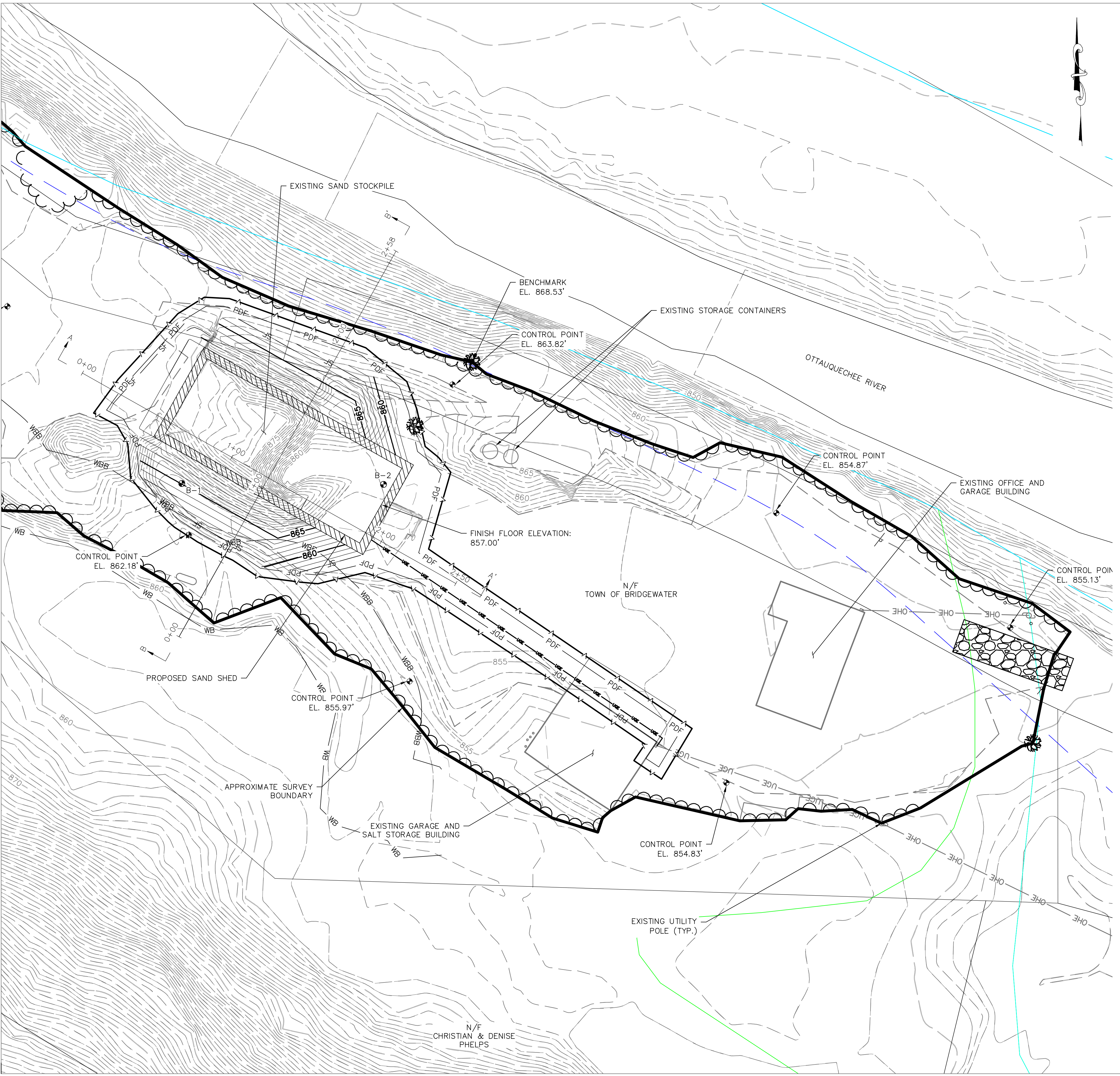
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CHECKED BY ATH	D&K PROJECT # 126462
PROJ. ENG. CJR	D&K ARCHIVE #

SHEET NUMBER  
**C4**  
SHEET 4 OF 10









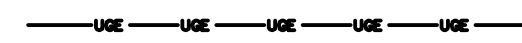
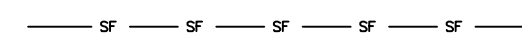
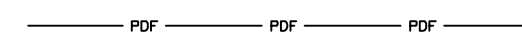

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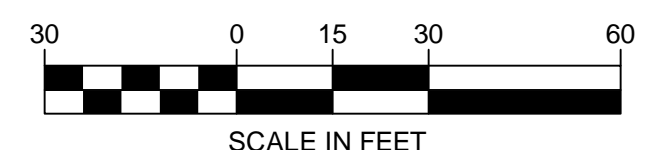


**NOTES:**

1. SEE SHEET C2 AND C4 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.
2. LIMIT OF CONSTRUCTION OFFSET FROM PROJECT DEMARCATION FENCE FOR CLARITY
3. AREA OF DISTURBANCE IS APPROXIMATELY 0.57 ACRES.
4. SAND SHED BUILDING TO BE PREFABRICATED STEEL. BUILDING MANUFACTURER TO BE RESPONSIBLE FOR DESIGN OF THE BUILDING FOUNDATION FOOTINGS AND WALLS. SHED WALLS TO BE DESIGNED AND CONSTRUCTED TO THE HEIGHT SHOWN ON SHEET C7.

**LEGEND:**

-  860 PROPOSED 5-FOOT CONTOURS
-  PROPOSED 1-FOOT CONTOURS
-  PROPOSED BUILDING FOOTPRINT
-  PROPOSED LIMIT OF CONSTRUCTION
-  PROPOSED UNDERGROUND ELECTRIC WIRE
-  PROPOSED SILT FENCE
-  PROPOSED PROJECT DEMARCATION FENCE
-  PROPOSED CONSTRUCTION ENTRANCE



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NO.	DATE	DESCRIPTION	BY	CKD

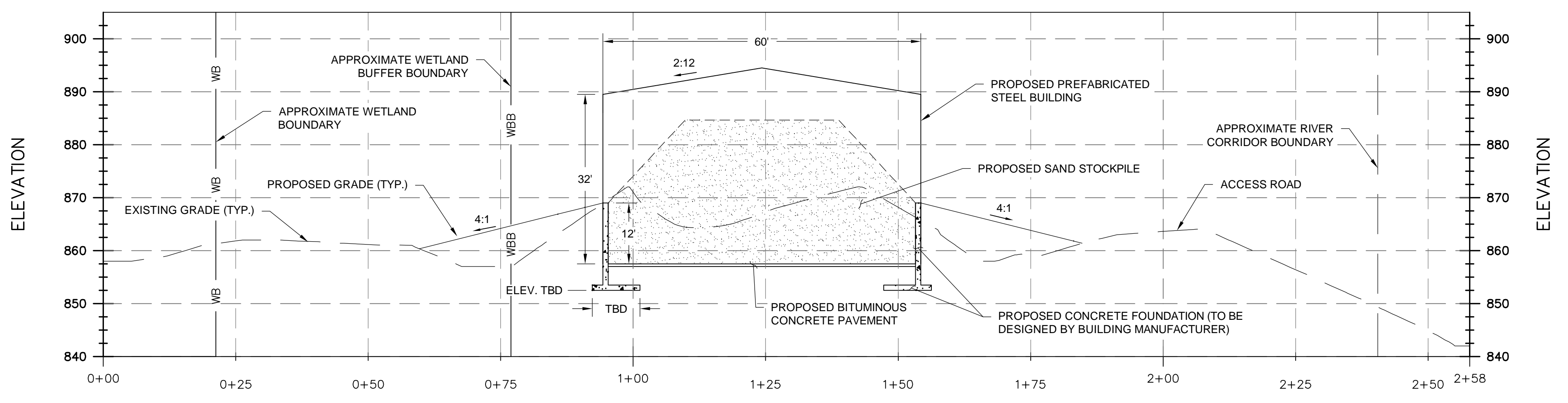
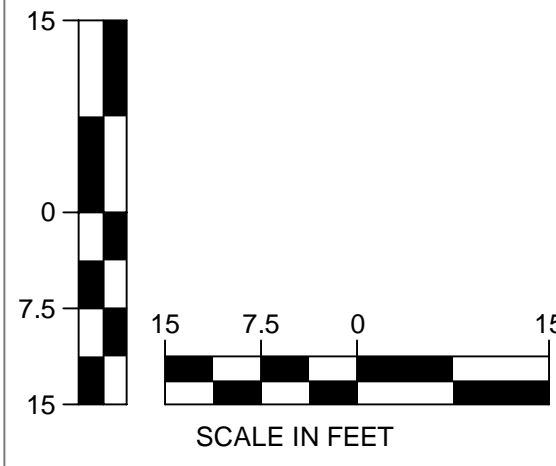
TOWN OF BRIDGEWATER  
 7335 US-4  
 BRIDGEWATER, VT

TOWN OF BRIDGEWATER  
 SAND SHED CONSTRUCTION  
 TAP TA19(11)  
 BRIDGEWATER CORNERS, VT

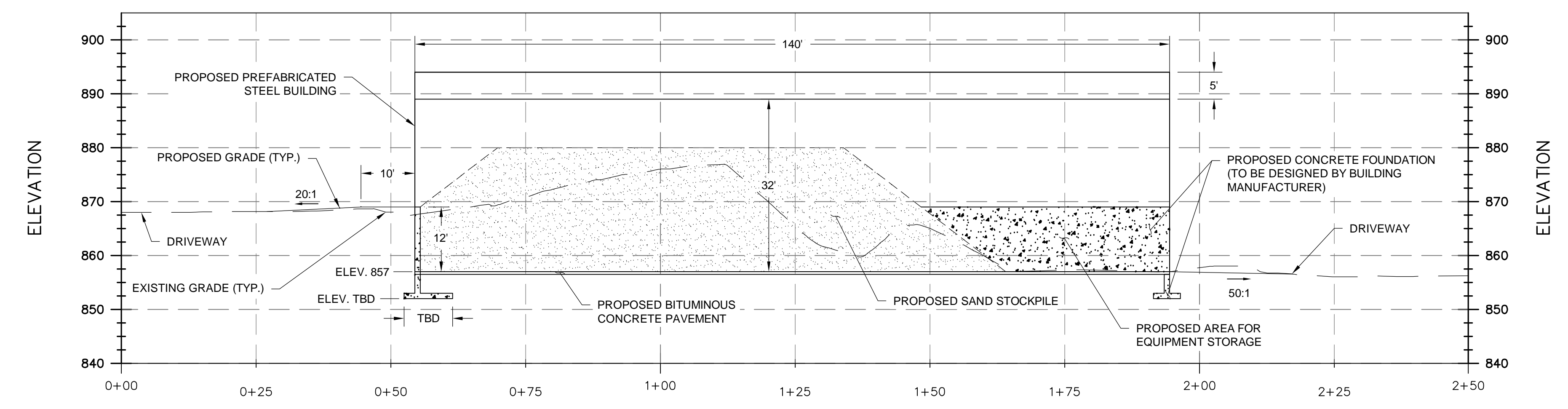
SHEET TITLE  
**PROPOSED CONDITIONS PLAN**

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SHEET NUMBER  
**C6**  
 SHEET 6 OF 10



PROFILE B



PROFILE A

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NO.	DATE	DESCRIPTION	BY	CKD

TOWN OF  
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 BRIDGEWATER, VT

TOWN OF  
 BRIDGEWATER  
 SAND SHED  
 CONSTRUCTION  
 TAP TA19(11)  
  
 BRIDGEWATER  
 CORNERS, VT

SHEET TITLE

PROPOSED SAND  
 SHED PROFILES

DRAWN BY CJR/SLR	DATE NOV. 2023
CHECKED BY ATH	D&K PROJECT # 126462
PROJ. ENG. CJR	D&K ARCHIVE #

SHEET NUMBER

**C7**

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NO.	DATE	DESCRIPTION	BY	CKD

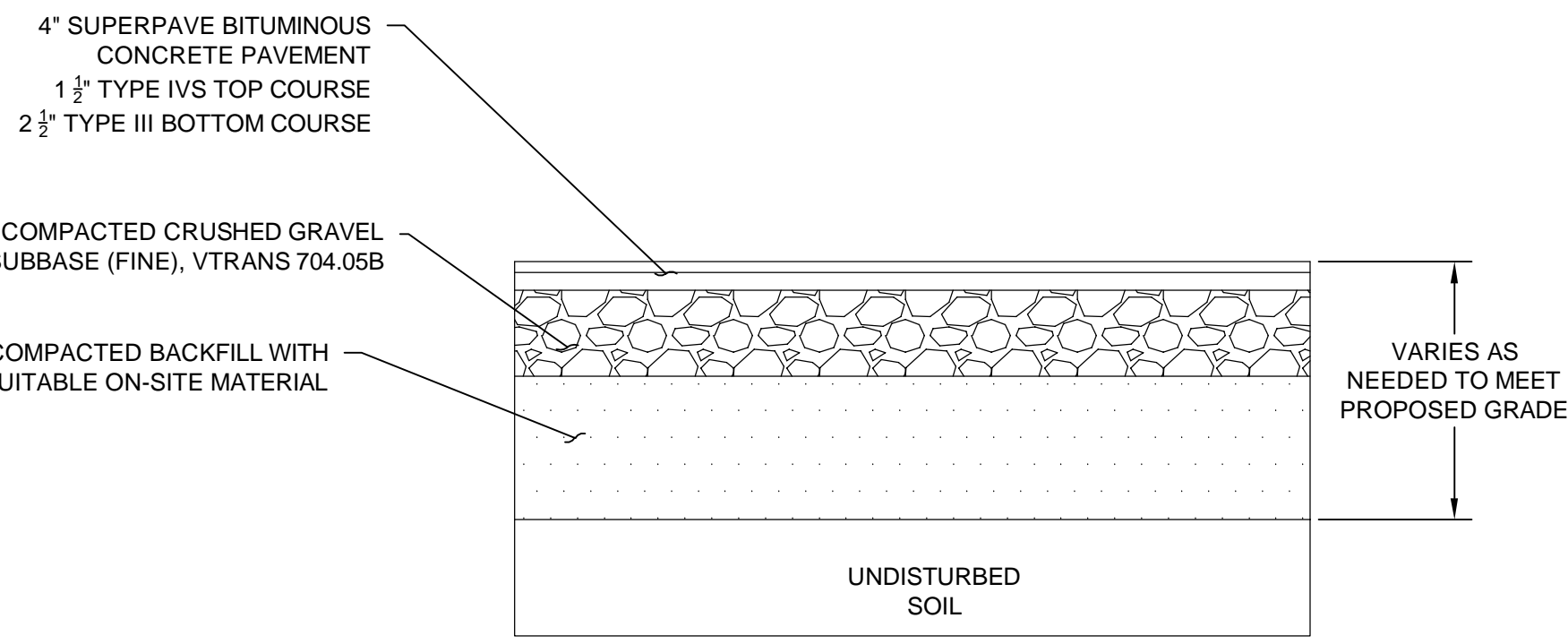
TOWN OF BRIDGEWATER  
7335 US-4  
BRIDGEWATER, VT

TOWN OF BRIDGEWATER  
SAND SHED CONSTRUCTION  
TAP TA19(11)  
BRIDGEWATER CORNERS, VT

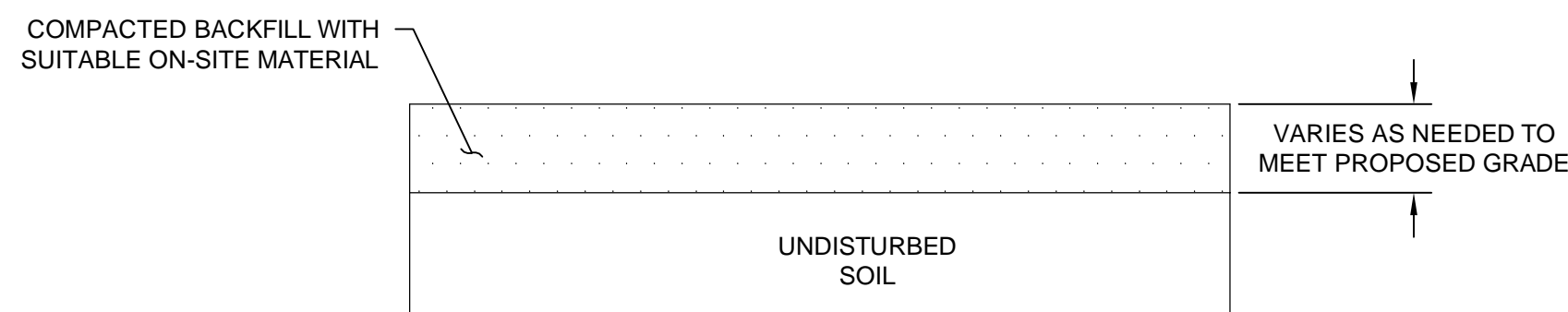
SHEET TITLE  
**DETAILS**

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PROJ. ENG. CJR	D&K ARCHIVE #

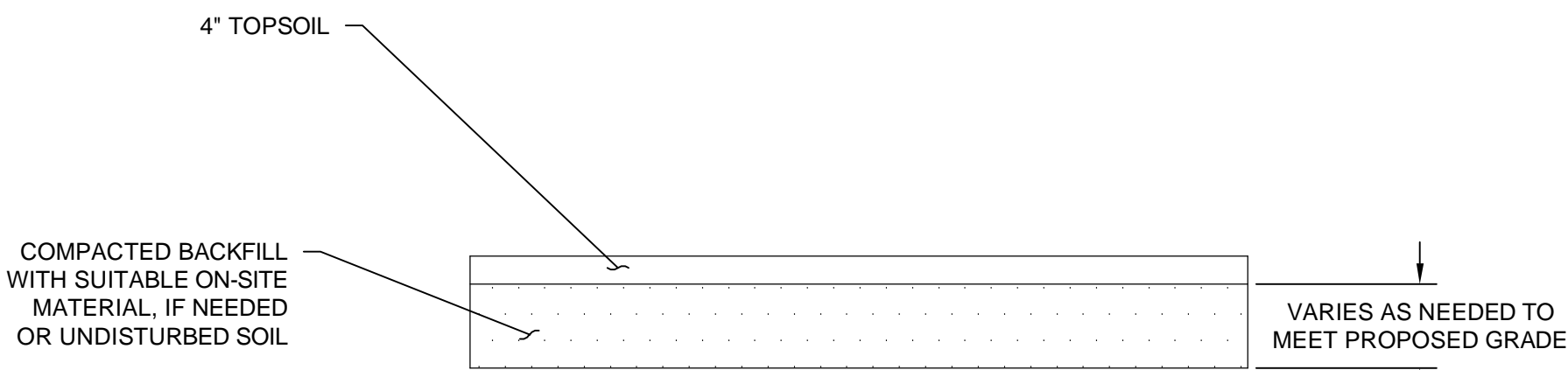
SHEET NUMBER  
**C8**  
SHEET 8 OF 10



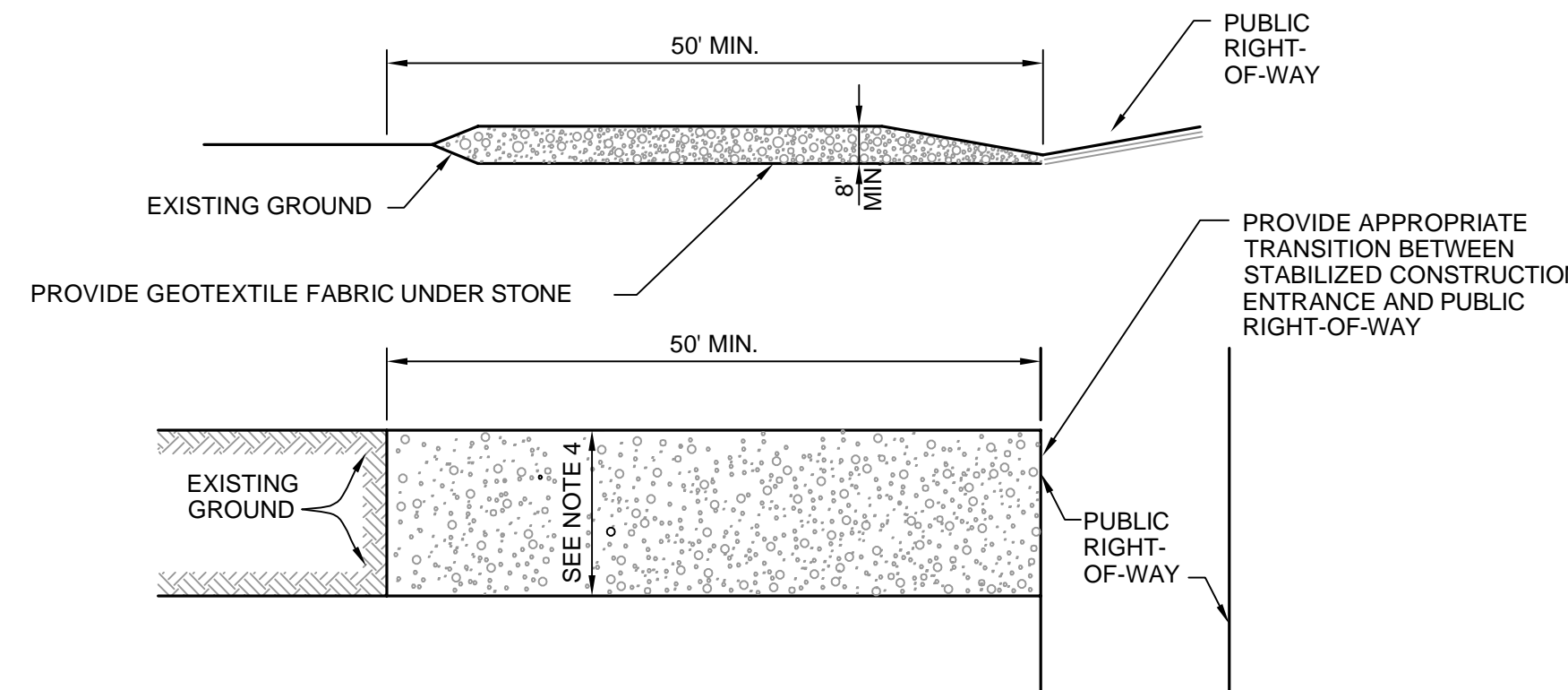
**SAND SHED FLOOR SECTION**  
NOT TO SCALE



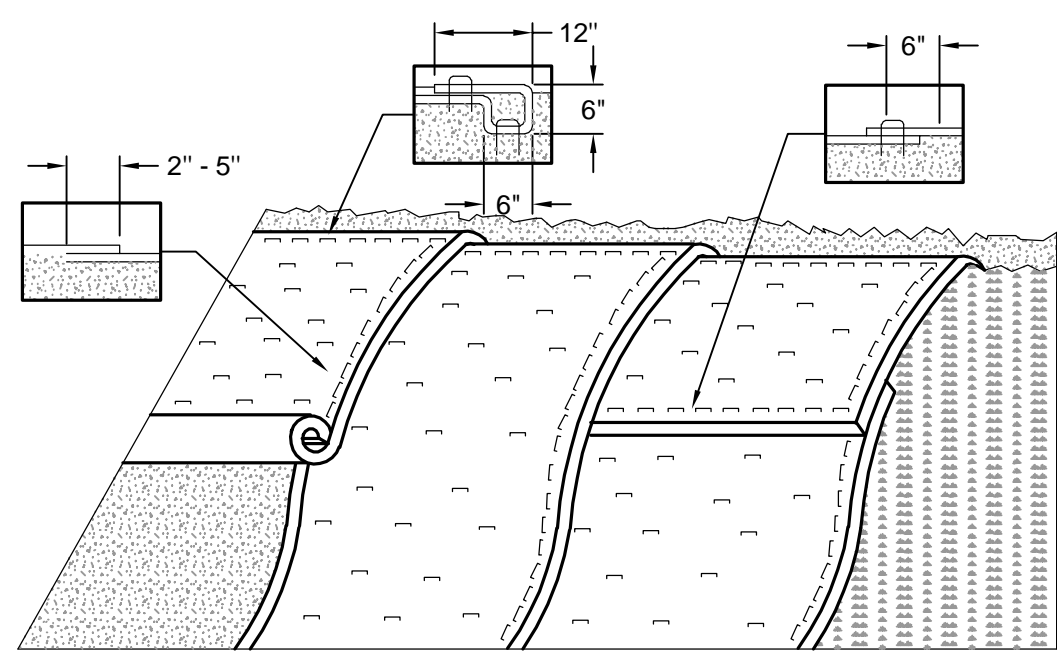
**DRIVEWAY SECTION**  
NOT TO SCALE



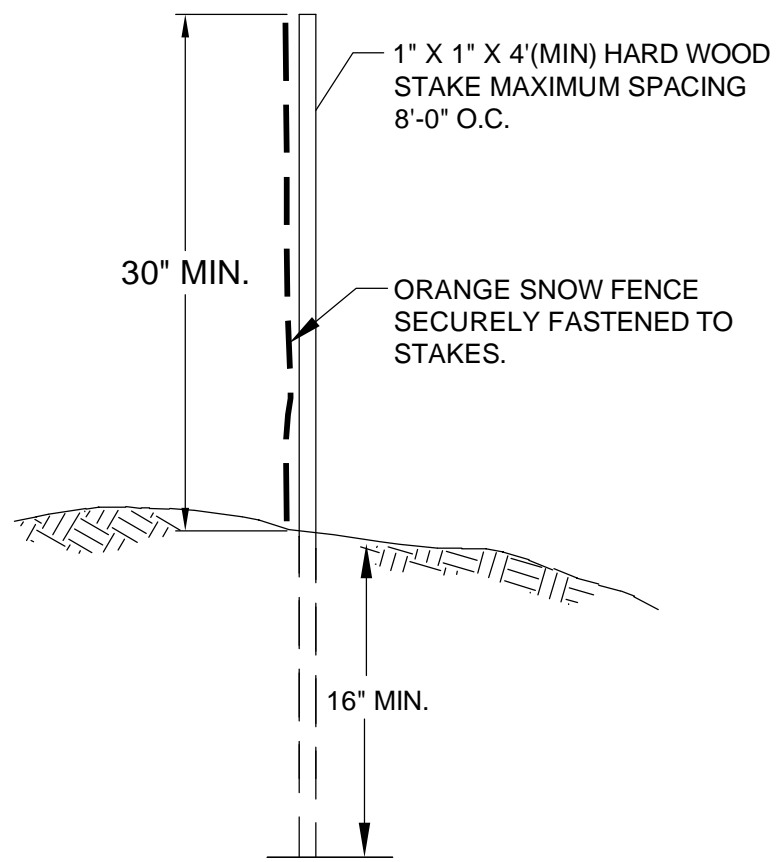
**VEGETATED AREA SECTION**  
NOT TO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**EROSION PREVENTION FOR SIDE SLOPES**  
NOT TO SCALE



**PROJECT DEMARCATION FENCE**  
NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS:**

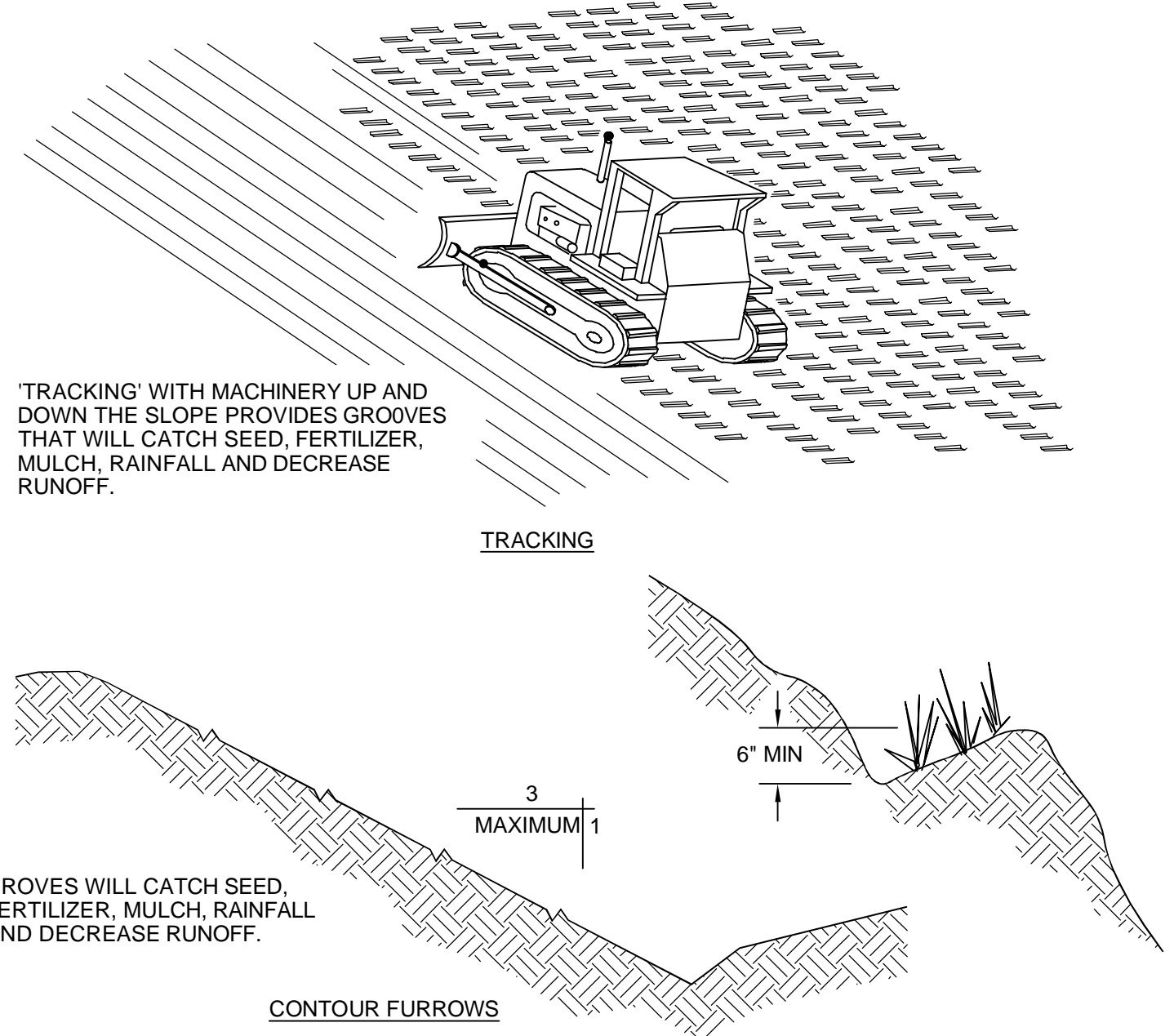
- LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY ENGINEER. IF CONTRACTOR DOES NOT WANT TO INSTALL A CONSTRUCTION ENTRANCE, CONTRACTOR SHALL OBTAIN PERMISSION FROM THE ENGINEER. MATERIALS ASSOCIATED WITH INSTALLATION SHALL BE REMOVED FROM PAY ITEM.
- STONE SIZE SHALL BE 3 TO 4 INCHES.
- LENGTH SHALL NOT BE LESS THAN 50 FEET.
- THICKNESS SHALL NOT BE LESS THAN 8 INCHES.
- WIDTH SHALL BE 12" MINIMUM BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
- WASHING. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE, WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
- MAINTENANCE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

**APPLICATION NOTES:**

- THE PURPOSE OF MATTING ON SIDE SLOPES IS TO REDUCE EROSION AND AID THE ESTABLISHMENT OF VEGETATION.
- ROLLED EROSION CONTROL PRODUCT SHALL BE USED FOR THE FOLLOWING REASONS:
  - SIDE SLOPES > 3:1 (H:V)
  - AREAS WHERE SEED AND MULCH WILL NOT STAY IN PLACE ALONE
  - WHERE SEEDING IS OUTSIDE THE GROWING SEASON.

**GENERAL NOTES:**

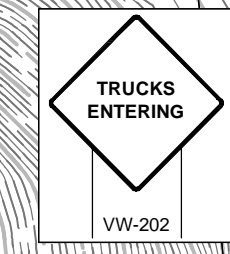
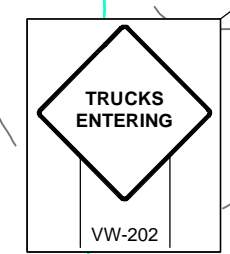
- GRADE AND SMOOTH THE SLOPE TO PROVIDE GOOD MATTING TO SOIL SURFACE CONTACT.
- APPLY FERTILIZER, LIME, AND SEED PRIOR TO PLACING MATTING.
- ANCHOR MATTING AS SHOWN, UTILIZING ANCHOR STAPLES. STAPLE PLACEMENT SHALL BE DETERMINED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- UNROLL MATTING VERTICALLY DOWN SLOPE IN THE DIRECTION OF WATER FLOW.
- OVERLAP UPPER MATTING OVER LOWER MATTING AS SHOWN.
- OVERLAP ADJACENT MATTING AS SHOWN.
- CUT EXCESS MATTING AT END OF SLOPE AND ANCHOR THE END.
- EROSION CONTROL MATTING SHALL BE 100% BIODEGRADABLE.
- MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS MINIMUM AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE.
- MATTING SHALL BE REPAIRED AND RESTAPLED AS NECESSARY TO ENSURE PROPER FUNCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION AND MAINTENANCE OF ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES.



**SURFACE ROUGHENING**  
NOT TO SCALE

I:\1\126462 Bridgewater Sand Shed\Drawings\CAD\Concept Plans\20201105 - EC\_Details.dwg 11/20/2023 1:52 PM LAYOUT TAB: EROSION CONTROL DETAILS

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**TRAFFIC CONTROL NOTES:**

1. TRAFFIC CONTROL SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES, DURING PERIODS OF INACTIVITY OR UPON COMPLETION OF WORK.
2. ALL TRAFFIC CONTROL SIGNAGE SHALL BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND VTRANS STANDARD SHEETS (AND THEIR LATEST REVISIONS).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING, ERECTING, AND MAINTAINING CONSTRUCTION SIGNS AND WARNING DEVICES FOR THE PLANNED METHODS OF OPERATION IN CONFORMANCE WITH THE MUTCD.
4. TRAFFIC CONTROL DEVICES SHALL BE REMOVED AND SIGNS SHALL BE COVERED AND/OR REMOVED WHEN THEY NO LONGER APPLY TO THE EXISTING CONDITIONS.
5. WORK ON THE PROJECT, OR ANY SEPARATE ACTIVITY THEREIN, SHALL NOT START UNTIL ALL REQUIRED SIGNS AND WARNING DEVICES ARE INSTALLED.
6. SIGN LOCATIONS SHOWN ON THESE PLANS ARE RECOMMENDED AND MAY BE ADJUSTED AS DETERMINED BY THE ON-SITE ENGINEER. TYPICAL LAYOUTS SHOWN ARE NOT TO SCALE.
7. VERMONT ROUTE 100A SHALL BE KEPT OPEN DURING CONSTRUCTION. APPROPRIATE TRAFFIC CONTROL SHALL BE PROVIDED IF AND WHEN EQUIPMENT IS IN OPERATION IN THE ROADWAY.
8. MAINTAIN ACCESS TO THE TOWN OF BRIDGEWATER FACILITIES THROUGHOUT CONSTRUCTION. ANY TEMPORARY DISRUPTION TO ACCESSES SHALL BE COORDINATED WITH TOWN ROAD FOREMAN IN ADVANCE.
9. CONTRACTOR SHALL PROVIDE ACCESS THROUGH WORK ZONE FOR EMERGENCY VEHICLES ALWAYS, AND SHALL COORDINATE EMERGENCY ROUTES.
10. TRAFFIC CONTROL TO BE PAID AS SEPARATE LUMP SUM ITEM 641.11.
11. COMMUNICATIONS WITH BICYCLE EVENT COORDINATORS AND EVENT PLANNERS SHOULD BE CONSIDERED DUE TO THE HIGH USE OF BICYCLES WITHIN THE PROJECT AREAS. THE LONG TRAIL BREWING COMPANY SPONSORS AND HOSTS SEVERAL EVENTS EVERY YEAR.
12. BICYCLE ACCOMMODATIONS SHOULD BE TAKEN TO ENSURE THAT OBSTACLES, EQUIPMENT, CONSTRUCTION MATERIALS, TRAFFIC CONTROL DEVICES, ETC. DO NOT ENCR OACH INTO THE BICYCLE PATH OF TRAVEL. IT IS IMPORTANT THAT CYCLIST'S ROUTES ARE FREE OF RUTS, SAND, AND MUD TO PREVENT CYCLIST'S CRASHES.
13. THE CONTRACTOR SHALL REVIEW AND USE 'THE BICYCLE AND PEDESTRIAN WORK ZONE TRAFFIC CONTROL GUIDE', AVAILABLE ON THE VTRANS WEBSITE, TO INCORPORATE THE APPLICABLE BICYCLE AND PEDESTRIAN TRAFFIC CONTROL INTO THEIR SITE-SPECIFIC TRAFFIC CONTROL PLAN.



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**60% DESIGN PLANS**  
**NOT FOR CONSTRUCTION**

NO.	DATE	DESCRIPTION	BY	CKD

TOWN OF BRIDGEWATER  
 7335 US-4  
 BRIDGEWATER, VT

TOWN OF BRIDGEWATER  
 SAND SHED CONSTRUCTION  
 TAP TA19(11)  
 BRIDGEWATER CORNERS, VT

SHEET TITLE  
**TRAFFIC CONTROL PLAN**

DRAWN BY CJR	DATE NOV. 2023
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PROJ. ENG. CJR	D&K ARCHIVE #

SHEET NUMBER  
**C9**  
 SHEET 9 OF 10

NO.	DATE	DESCRIPTION	BY	CKD

TOWN OF  
BRIDGEWATER  
7335 US-4  
BRIDGEWATER, VT

TOWN OF  
BRIDGEWATER  
SAND SHED  
CONSTRUCTION  
TAP TA19(11)

BRIDGEWATER  
CORNERS, VT

SHEET TITLE

RIGHT OF WAY  
LAYOUT PLAN

DRAWN BY  
SLR

CHECKED BY  
ATH

PROJ. ENG.  
CJR

DATE  
NOV. 2023

D&K PROJECT #  
126462

D&K ARCHIVE #

SHEET NUMBER  
**C10**

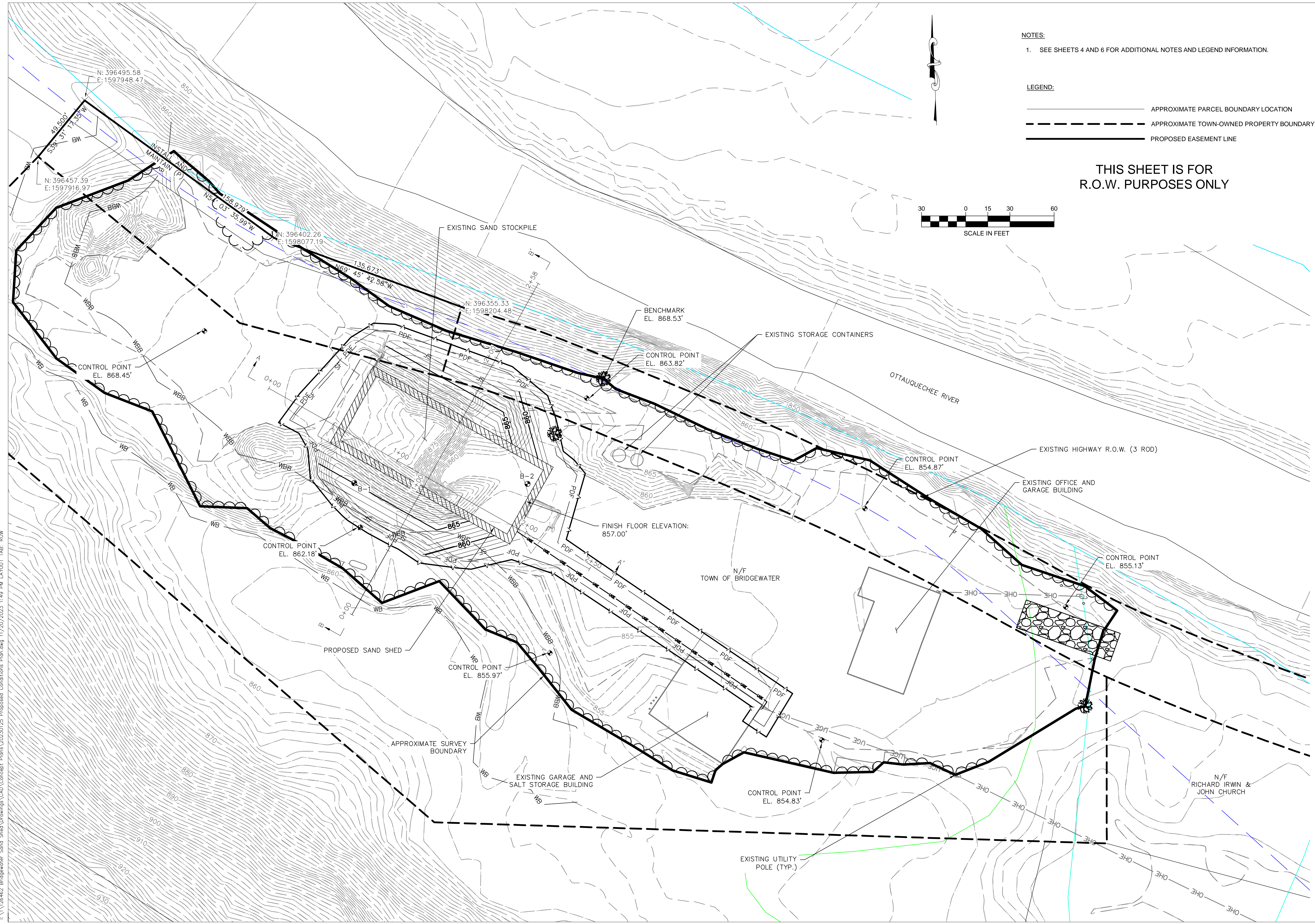
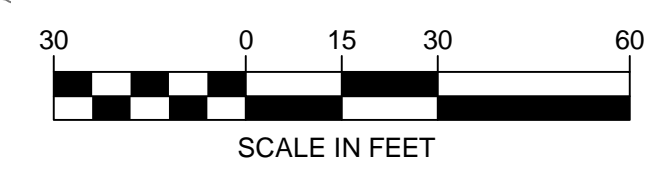
SHEET 10 OF 10

NOTES:  
1. SEE SHEETS 4 AND 6 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

LEGEND:  

 APPROXIMATE PARCEL BOUNDARY LOCATION  
 APPROXIMATE TOWN-OWNED PROPERTY BOUNDARY  
 PROPOSED EASEMENT LINE

THIS SHEET IS FOR  
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