

VTrans Fall 2022 Transportation Alternatives (TA) Grant Application

Thoroughly read the *Vermont Transportation Alternatives Fall 2022 Application Guide* 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 in hand or by e-mail by December 14, 2022.** Please e-mail the completed application to: Scott.robertson@vermont.gov

Ripton Sand Shed	802-388-2266
(Project Name/Title)	(Phone)
Alison Joseph Dickinson	ajdickinson@riptonvt.org
(Municipality contact person responsible	(e-mail address)
for the management of this project)	\$ 144,000
Ripton	Amount of Federal Funds requested (no more
(Town)	than 80% of the project cost estimate).
05766	\$36,000
(Zip Code)	Amount of Local Match. Example:
	Federal Award = \$300,000 (80% of total)
PO Box 10, Ripton VT 05766	Local Match = \$75,000 (20% of total)
(Mailing Address)	Total Project Cost = \$375,000 (100% of the total)
County: Addison Town/Village/City: Ripton	
Specific location, street, or road: 333 Peddlers B	Bridge RD (TH2) and Lincoln Rd (TH1)
Regional Planning Commission: Addison County	Regional Planning Commission
If a linear project, what is the length in feet? No	t linear
	ntation that you have notified the VTrans District ant to apply for TA funding and have provided them
Project type being applied for:	Scoping ⊠ Design/Construction

The municipality understands t Program funds will take roughly					
construction (as pointed out in		•	vv phases phor to	•	No □
Does this project have a previo	usly completed scoping or	feasibility stud	ly?	Yes ⊠	No 🗆
Note: Attach a map(s) of the project a benefits from the proposed impowntown, village or growth ce boundary of the designated are	provement. If the project inter, clearly indicate the r	is within or adj elationship of	acent to a design the proposed pro	ated	
Fiscal Information:					
Accounting System	Automated ⊠ N	Manual 🗆	Combination		
SAM Unique Identifier <u># x</u>	KH5NE3BJJY5				
Fiscal Year End Month June					
Property Ownership: Property this project. If the proposed project is on pripurchase, easement, or eminenthe "Uniform Act", then the mu	vate property that will nee t domain (includes tempo inicipality is committed to	ed to be acquir rary constructi	red by the Munici on rights) in acco ight of <i>eminent d</i>	pality thr rdance w	ough vith
acquire the rights to construct t Funding:	he project if necessary.		Yes 🗆	No □	i
Does this project already have ϵ	existing funding? If so, ple	ase describe.	Yes ⊠	No □	
Yes, the project has funding thro grant award of \$356,000 federa		•	mwater Mitigatio	on progra	m
Will you accept an award less th	nan you applied for?		Yes ⊠	No □	
scope will be reduced.	hether local funds will be If the project scope is to b would accept partial fund	e reduced, des	•		-
Local funds will be used	to make up the shortfall.	2			
A support letter from the gover acknowledgement and source of for construction projects is requ support attached?	of the local match and com nired (must be dated within	mitment to fu n 1 year of the	ture maintenance	erespons	
	Yes ⊠	No □			

Regional	Planning	Commission	Letter of	Support:
		901111111111111111111111111111111111111		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 🛛

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.)

Construction of a 72' x 140' covered sand shed on a town-owned parcel on TH1 and removal of the existing sand pile from a Zone A floodplain. This project was funded by a FY19 Municipal Highway and Stormwater Mitigation Program grant, but additional funds are needed for construction.

No 🗌

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 completed to date. (10 points max.)

The construction plans, specifications, and bid documents are complete and transferred to VTrans. A copy of the plans and cost estimate are attached.

Full Contract Plan Set Ripton STP MM 19(18).pdf

Ripton-Sand & Salt Shed Bid Document.Complete 12.05.2022.pdf

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

Yes, the need to store road sand in an environmentally sensitive way is documented in the Ripton Town Plan. It is also documented in planning commission meeting minutes and town reports, and in correspondence from the regional planning commission.

4. Does this project benefit a State Designated Center per the link below (i.e., downtowns, villages, or neighborhood growth centers recognized by the Vermont Department of Economic, Housing and Community Development? (10 Points Max.)

http://maps.vermont.gov/ACCD/PlanningAtlas/index.html?viewer=PlanningAtlas

 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)	<i>\$</i> 0
Right-of-way / Acquisition (ROW) (appraisals, land acquisition and legal fees)	\$0
Construction (construction costs with reasonable contingency)	\$ 119,000
Construction Engineering (cost to provide inspection during construction)	\$ 11,900
Municipal Project Management Costs (minimum of 10% of total PE, ROW and Construction Phases).	\$ 13,079
Total Project Cost	\$ 143,869
Addition Funding Comments: (ex. Total and additional fund	ing for existing projects)
Funding in place: Remaining funds in Grant Agreement CA0559 Ripton STP MM	\$385,557 19(18)
Select the eligibility category below (A, B, C or D) that best fi	ts your project and answer the

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.

Selected Category C

- ☐ C. Environmental Mitigation Activity Related to Stormwater and Highways
 - i. Please describe how this application provides environmental mitigation relating to stormwater and highways. (10 points max.)

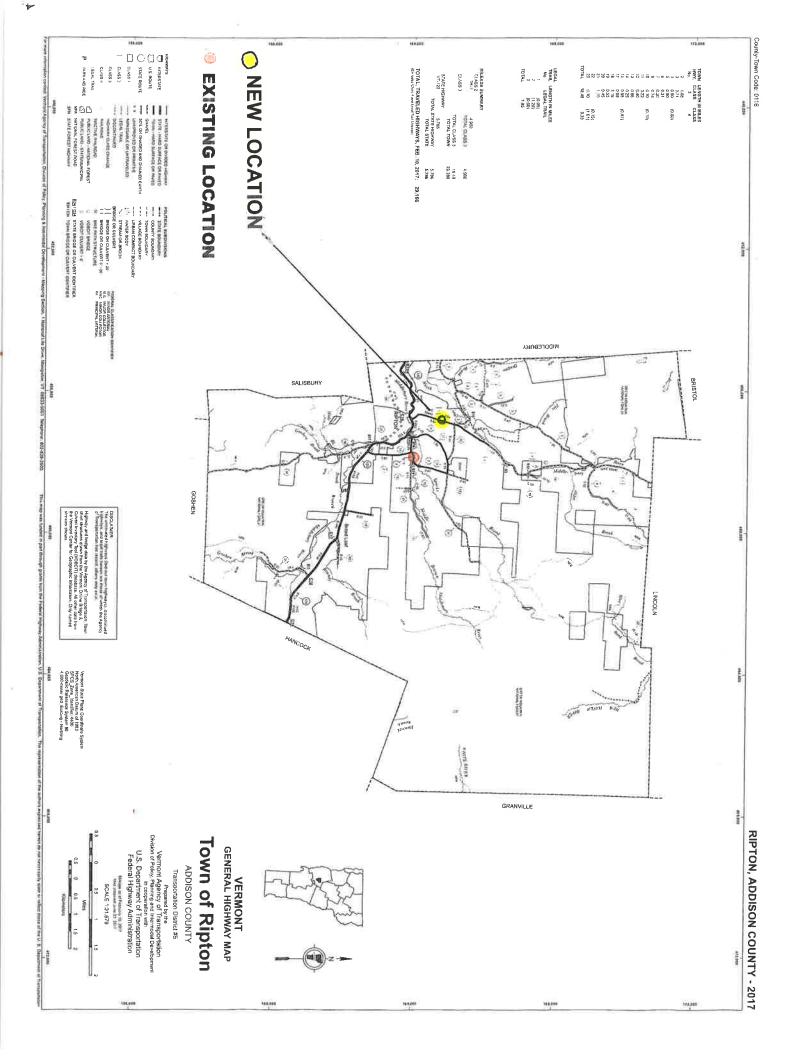
Damage and sand loss at the existing location is documented in several FEMA events including 2000, 2011, and 2017 when large amounts of sand washed away from the site. Erosion from the site happens in even small storms. Moving the sand pile and its related trucking and equipment activity from the floodplain will prevent and abate a repetitive pollution problem, reduce sediment flow into waters leading to Lake Champlain, and allow for floodplain restoration and better stormwater management.

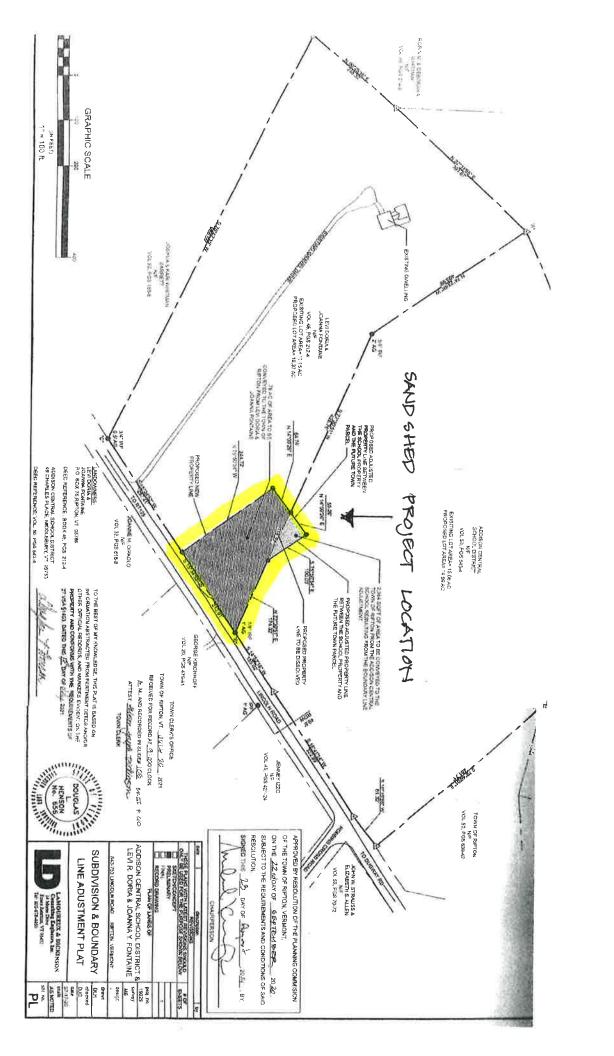
ii. What information or data is provided to substantiate the current stormwater problem and associated environmental impacts? (10 points max.)

Photos, damage history from FEMA eligible storm events, maps including the FEMAA FIRM map, and Addison County Riverwatch Collaborative sampling results regarding turbidity are provided to substantiate the problem and environmental impact. The site is in a Zone A floodplain and floods repeatedly. A fire station that was at the site was relocated with FEMA funds after flooding. On Dec. 7, 2022, Enforcement Officer Gary Urich of the VT Dept. of Environmental Conservation investigated a complaint about the sand pile eroding into the river.

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.)

To quote ACRPC Executive Director, Adam Lougee, "Moving the piles to a better location away from the river that can appropriately store sand and salt just makes sense." The existing sand pile site erodes into the Middlebury River, flowing to Otter Creek and Lake Champlain. Removing the sand/salt pile and related activity and returning the site to vegetation solves a water quality problem. Studies for the management of the Middlebury River Corridor support this approach, as do the Town's efforts to secure and restore floodplain areas. Storage in an enclosed shed keeps the sand/salt erosion and water contamination problem from repeating. Handling and maintaining the sand pile in a an environmentally safe way will be easier with an enclosed storage shed. Photos and maps are attached.





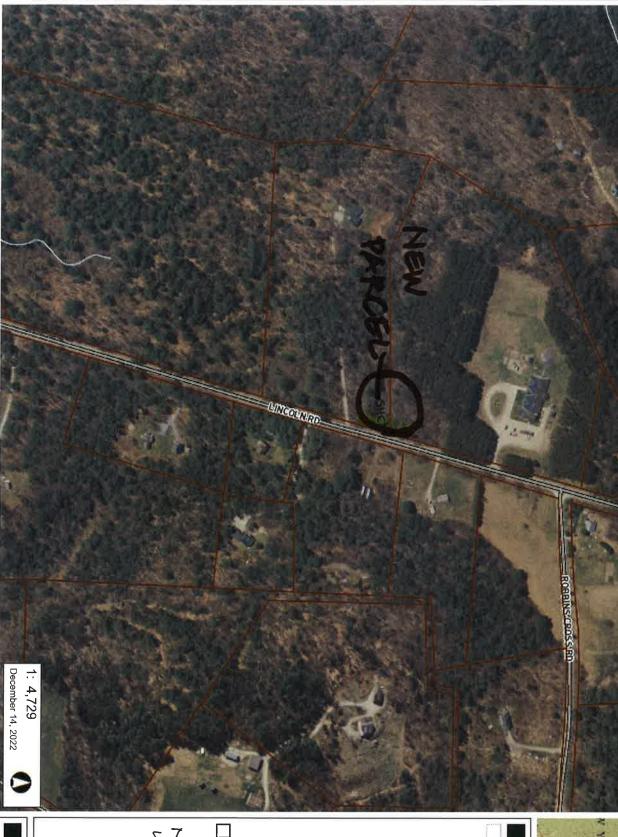


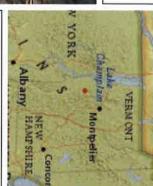


Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov





_EGEND

Parcels (standardized) Roads

Interstate

US Highway; 1

State Highway

Town Highway (Class 1)

Town Highway (Class 2,3)

Town Highway (Class 4)

State Forest Trail

Legal Trail National Forest Trail

Private Road/Driveway

Proposed Roads

Stream/River

Stream

Intermittent Stream

☐ Town Boundary

NEW SAND SHED LOCATION

NOTES

Map created using ANR's Natural Resources Atlas

© Vermont Agency of Natural Resources

THIS MAP IS NOT TO BE USED FOR NAVIGATION

394 Ft.

1cm =

47 Meters

120.00

240.0 Meters

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map

WGS_1984_Web_Mercator_Auxiliary_Sphere

240.0

Town of Ripton Selectboard

PO Box 10 1311 Route 125 Ripton VT 05766 802-388-2266

To:

Vermont Agency of Transportation

Date:

: December 12, 2022

Re:

Vermont Transportation Alternative Grant Application Fall 2022

The Ripton Selectboard is fully committed to meeting the local match requirement and future maintenance responsibility for the construction of the sand shed described in the Town's application to the Transportation Alternatives Grant Program. We have already purchased land and completed engineering for the sand shed with a SFY 2019 Municipal Highway and Stormwater Mitigation Program grant. Unfortunately we have a shortfall greater than \$130,000 for the estimated construction cost. We are eager (desperate even) to complete the project and move our winter sand pile from an open site in a floodplain next to a river to an enclosed shed. We appreciate your consideration, the assistance received to date, and offer our complete commitment.

Sincerely,

Laureen Cox, Chair

Timothy Hanson

Giles Hoyler

Ripton Selectboard



Alison Joseph Dickinson <ajdickinson@riptonvt.org>

Ripton sand shed project

Adam Lougee <alougee@acrpc.org>

To: Alison Joseph Dickinson <ajdickinson@riptonvt.org>

Cc: Mike Winslow < mwinslow@acrpc.org>

Fri, Dec 9, 2022 at 1:44 PM

Hi Alison:

This email constitutes ACRPC's continued support for Ripton's Salt shed application. Please re-attach our previous letter of support. This application should be even stronger since you have already secured a significant portion of the funding for the shed and this is needed to get to construction.

Best,

Adam

On Fri, Dec 9, 2022 at 12:58 PM Alison Joseph Dickinson <a idickinson@riptonvt.org> wrote: [Quoted text hidden]

Addison County

Regional Planning Commission

Adam G. Lougee, Executive Director Addison County Regional Planning Commission 14 Seminary Street Middlebury, Vermont 05753 (802) 388 -3141 Office (802) 233-5420 Cell alougee@acrpc.org

Addison County Regional Planning Commission

14 Seminary Street

Middlebury, VT 05753 www.acrpc.orgPhone: 802.388.3141 Fax: 802.388.0038

July 13, 2018

Alison Joseph Dickinson
Town Administrator, Clerk, Lister
Town of Ripton
802-388-2266
PO Box 10
Ripton VT 05766
ajdickinson@riptonvt.org

Re: Support of Ripton's Grant Application to re-locate and build a new sand and salt facilities.

Dear Alison:

This letter constitutes the support of the Addison County Regional Planning Commission of the Town of Ripton's application to for funding to move its current salt and sand piles away from the Middlebury River.

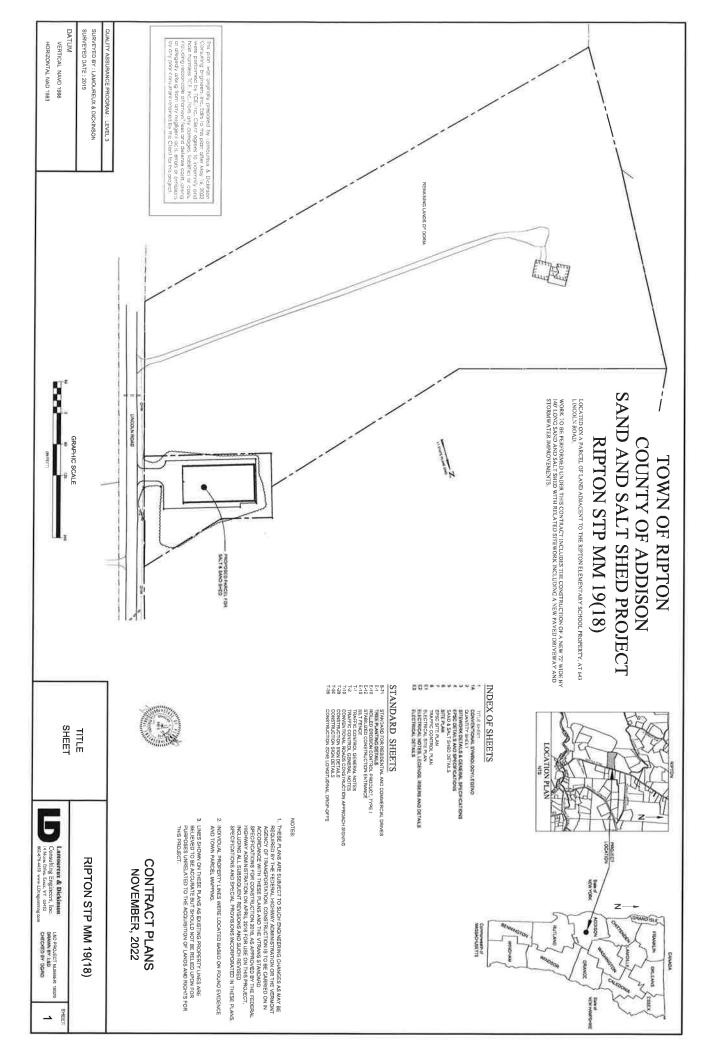
Contamination of rivers and streams with road sand and salt is a significant concern. Ripton's current sand and salt storage area sits right on the Middlebury River and consistently erodes directly into the river. Moving the piles to a better location away from the river that can appropriately store sand and salt just makes sense.

The Addison County Regional Planning Commission is in full support of Ripton's request for funding to improve water quality in the Middlebury River by moving and improving its salt and sand facilities.

Sincerely,

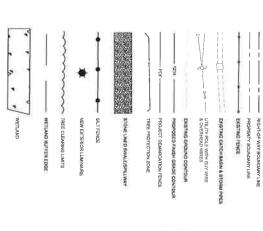
Adam G. Lougee,

Executive Director



LEGEND

NEW UG UTILITIES



SURVEY CONTROL POINT EXISTING SIGN NEW SIGN EXISTING TREE/SHRUB NEW PAVEMENT PROPERTY CORNER PREMION FOUND



CONTRACT PLANS NOVEMBER, 2022

This plan was originally prepared by lamayurus, a Deckinan Carauling Engineer, Inc. Edits, or the plan are an industry to, 2022 were performed by 1°CE (no. Cubert angree in industry) and told bramless (T.E.) have from any personal industries or costs, and including accordate afforcings) (less angles) existed so, and in an including accordate afforcings) (less angles) existed (primary ingligent) at the original containers by any prior consultant reliabled by the Client I of this project.

CONVENTIONAL SYMBOLOGY-LEGEND



L&D PROJECT NUMBER: 19028 DRAWN BY: L&D CHECKED BY DG/RD

RIPTON STP MM 19(18)

Ź

STATE OF VERMONT AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

		-													
		I													
														I	
		1	1												
		1	1												
		I	1												
		I													
					I										
															I
		1													
		I													
		I	+		1										
			+		1										
		I													
			900.045	SHECAL PROVISION (Salt & Sand Shed)	S	-					1				
											+			1	
			529.008	SPECIAL PROVISION (Light Pole & Lumnaire Assembly)	EACH	-			-						
		1	1												
			678.23	WEST CONDUCT TO THE PROPERTY OF THE PROPERTY O	F.	126			126						
] T	0.000	10.000	-							3			
		I			0				_						
			658.20	EVERCHEN THEIS	EACH	10	6					Ī			Ī
			3												Ī
		1	653.55	PROJECT DBJM PCATOW/PACE	두	781			781						
		<u> </u>	croos	AND CONTROL OF STREET	2										
					2	2		4			1				
			653.20	ROLLED EROSION CONTROL PRODUCT, TYPE I	SY	185		185						t	
		1	663 10	NOTWAN.	TON	0.5		2.0							
		I	20,000	SCHOOL SC	-						-				
		I	3		b							1		1	
			45136	10%01	ą	140		140						+	Ī
] T	05120	AGRICULTURAL LIMESTONE	101	9		0.1							
		I	103,14	227	100										
						3		689				Ī			
			651.15	SEED 65	1.0	25		22							
			ľ												
	I	1	549 84	GEOTEXTILE FOR FLIER CURTAN	YS	77		7							
		<u> </u>	0.003	PA SANDESIGNATURE OF THE PROPERTY OF THE PROPE	ay.	4			41.					1	
					ž	4						I		İ	I
			11.6	GEGTEXTLE FOR REACHED SEPARATOR	57	1947			1947					İ	
			1000												
	1	1	1414	TRAFFIC CONTROL ALL-NOLLISIVE	LS	9			-						
		<u> </u>	100.77	MODERA ION	150						-				
		L		76 176 766 776 776					1	I		Ī		l	
			630.15	FLAGGERS 83	ň	50			IIO			I			Ī
		 	0.00												
	_	 	-	STOWER TYPE	Q	G.			i i			Ī			
			609.10	DUST CONTROL WITH WATER 60	WOM:	0.5			0\$			Ī			I
		 	20.000												
		<u> </u>	-		4										
			408.50	PROCEAGUSTNERT, ASPART (CONDIT (NA.81)	1.0	-									
] T	405.33	SOUND STANDARD STANDA	100	8			á						
									87.2						T
			301.25	OSCWO 38-WO TLAWD CHARLO DO 38-WHITE	Q	310			111						
	1		204.20	HEROHOCAVATONO SARTH	Q	27			11		+				
											-	 -			Ī
			20.00	GRANTAH BORDM	Q	300			320						
			703 15	COMMONIBICAVATION	Q	1000			:000		+	I	ļ		Ī
			301 44		900	24			z		+			Ì	I
			201 10	O SHIP SHALLE DAY SERLI TATOADA DAST NO SUND STANDS	Si	•			-						
		_	1		╀	t						Ī		t	I
SWBLI	QUANTITIES	no carlos	TEW NUMBER #	(TEAS)	AL UNIT	GRAND FINAL	acally . Mon-	Empo Control	Amany						
DETAILED SUMMARY OF QUANTITIES				DESCRIPTIONS		I COMPA				Contract of the Contract of th	The second second	- Common			
				rame Analysis Later		PATAI				PSHINAMA	SHIMMARY OF ESTIMATED QUANTITIES	BVWWRIS			
				Handa Barana	0		l i								



PACIFICATIONS RIPTON STP MM 19(18)
THE MAIL PACE COLUMN OF THE MAIL PACE COLUM

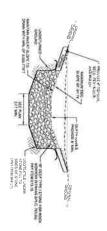
GENERAL CONSTRUCTION SPECIFICATIONS

- ALL WORK AND MATERALS SYALL BE IN ACCORDANCE WITH THE VERMONT AGENCY OF TRANSPORTATION STANDAGD SPECIFICATIONS FOR CONSTRUCTION 2018 AND ITS LATTEST REVISIONS, THE MANUAL ON UNIFORM. TRAFFIC CONTROL DEVICES (2008 EDITION) AND THESE PLANS
- THE CONTINUED REWALL CONTACT ALL UTILITIES BILLIONS
 EXCAVATION TO YEARTY THE LOCATION OF ANY UNDERGROUND LINES.
 THE CONTINUE THE LANGE THE TOWN OF
 EXTENSION THE TOWN OF
- CATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE MANGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR WHEREON THE CONTRACTOR SHALL CONNECT OR TALLUTURES TO THE MAGEST SOURCE THROUGH TON WITH UTILITY OWNER.
- HE CONNACION SUAL DE RESPONDENT (DE L'EXLANDE HAT THE NAVACE, DE L'ANTE L'EXTREMENT L'EXTREMENT DE L'EX-TREMENT STREET, NAVALUE L'EXTREMENT DE L'EX-TREMENT STREET, DE DONCES MICH. DOVER BRODUIT (THE 1-FAV ITEM 608 D. AS REQUIRED OR AS DIRECTED BY THE RESIDENT ENDINEER.

TURF ESTABLISHMENT SPECIFICATIONS

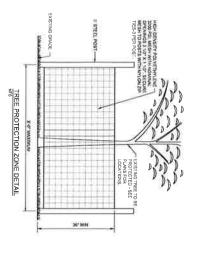
- USE VAOT RURAL AREA SEED MIX AS INDICATED BELOW FOR ALL NON-PAVED AREAS DISTURBED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PERFORM A SOIL TEST OF THE SUFFRIED TOPSOIL AND SUBMIT IT TO THE BUNINEER FOR APPROVED TOPSOIL SHALL BE EVALUATED. FERTILIZER ANDIORI LINE SHALL ONLY BE APPLIED IF THE RESULTS OF THE SOIL TESTS MODIFIED FOR THEM.
- HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 50% GROUND COVER OR AS DIRECTED BY THE ENGINEER. PAID AS ITEM 653:10
- APPROVED TOPSOIL TO BE USED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, PAID AS ITEM AS A
- TURF ESTABLISHMENT: SEED FERTILIZER, LIME AND MULCH SHALL BE PLACED BETWEEN APRIL 1S AND SEPTEMBER 15 TO ENSURE A VIGOROUS GROWTH OF GRASS

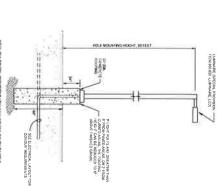
AAME	SCIENTEK NAME	ACOUNTY ALL	LBS/AG BRONDCAST HYDROSEED	ST HYDROSEED	AK20	ALLA
SYCKE I FOR DWEEDING	Fostura robra var rubra	27.5%	11.0	۵	ş	5
ATT EISCHT	Feature avaidances	26,500	22.4		5	3
ND TOP	Agrasia provida	30%			5	5
MHALL COOMEN	Intoleum repona	work		é	3	28%
SSMSSSA STAN	anagene enters	104	- 1		7	35%
	1000	ij	E	ń		



SHAD OF MATCH

TYPICAL STONE LINED SPILLWAY





POLE MOUNTED LUMINAIRE DETAIL

ALLOWS EXTEND CRAVEL SUBBASE TO DAYLIGHT

MODE.
4-THE CONTRACTOR SHALL AND DISCOMPACTING THE NATIVE SOLIS IN THE AREA OF THE INFILTRATION BASHING AND INFILTRATION BASHING THE AREA DETERMINED TO THE INFILTRATION BASHING THE BASHING DURING CONSTITUCTION.

AND INFINITE OF THE INFILTRATION BASHING THE B

STORMWATER INFILTRATION BASIN

USE NATIVE SOIL IN AREAS WHERE FILL IS NEEDED TO REACH SUBGRADE ELEVATION (PAY SUBSIDIARY TO COMMON EXCAVATION PAY TEM 20,115)

& SPECIFICATIONS

MANCO. 1. IM ALL AGAIS WHERE LINSTABLE UNSUTABLE SUBGIADE SOLS AME PRESENT, THE SUBGRADE SYALL BE VOER-DICAVATED 24: TO REMOVE THE LINSUTABLE MATERIAL, AND BACKS LLED WITH GRANLLAR BORROW OR SELECT MATTER MATERIAL. TYPICAL PAVEMENT AREA CROSS SECTION



Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Marse Drive, Essex, VT 05452
802-878-4450 www.LDengunering.com

CHECKED BY DOWN

RIPTON STP MM 19(18)

PRIGHT OF THE START OF CONSTRUCTION, INSTALL TEMPORARY TREE PROTECTION, ZONE 1772] FENCE IN LOCALIONS SHOWN OF FLANS FOR THEE AND PLANT PROTECTION TPZ FENCE SHALL BE PLACED AT THE EXPLORED TO THEE TRANSPORT OF THE SHEET.

TREE AND PLANT PROTECTION

TP2. FENCE SHALL PROTECT EMBITING TREES, SHAUBS AND OTHER VEGETATION THROUGHOUT CONSTITUCTION AGAINST CUTTING REPARKING OR SHAUNING OF ADDITING SKINNING AND BRUSSING OF BANK SWOTHERING OF TREES BY STOCHELING CONSTRUCTION MITERIALS OR EXCAVATED MITERIALS, EXCESS PROT OR VEHICLING TASHES, OF TREES BY STOCHELING CONSTRUCTION MITERIALS OR EXCAVATED MITERIALS, EXCESS

WHERE TEMPORARY CLEARANCE IS NEEDED DURING CONSTRUCTION THAT MAY CONFLICT WITH EXISTING TREES, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.

WHEN EXCAVATION IS TO OCCUR IN CLOSE PROXIMITY TO EXISTING TREES, ROOT PRUNING SHALL BE DOWN PRICE TO CONSTRUCTION, ROOTS SHALL BE CREANLY DUT, INTHIC GUTS TO THE DEPTH OF THE REQUIRED EXCAVATION, WHEN COMPLETED, REPLACE SOIL IN THE TRENCH AREA

ROOTS EMPOUNTERED DURING EXCANATION IN THE VIGINITY OF TREE PROTECTION ZONES SAFALL BE ROOTS EMPOUNTERED DURING EXCANATION IN THE VIGINITY OF TREE PROTECTION ZONES EXPOSED ELEMANY CUT AND PROTECTED DURING CONSTRUCTION OPERATIONS. TREFORM TROOTS FROM DRYNG OUT UNIT, THEY ROOTS WITH A DOUBLE LAYER OF DAMPENED BURLAY TO PREVENT ROOTS FROM DRYNG OUT UNIT, THEY CAN BE COVERED WITH SOIL, COVERT ROOTS WITH SOIL AS SOON AS POSSIBLE EXHAUNCH BURLAY.

WATER EXISTING TREES AND OTHER VEGETATION TO REMAIN WITHIN LIMITS OF CONTRACT WORK AS REQUIRED TO MAINTAIN THEIR HEALTH DURING THE COURSE OF CONSTRUCTION OPERATIONS.

IF ANY TREES OR SHRIUSS DESIGNATED TO BE SAVED ARE DAMAGED AND REPLACEMENT IS REQUIRED.
TREES OR SHRIUSS CHEEN THE SAME SPECIES AND YMBERTY SHALL BET INMISSED AND PARTED BY THE
OWNTRACTOR, THE TOTAL INCH DIMMETER OF THE REPLACEMENT TREES OR SHRUBS SHALL EQUAL THE
DAMAETER OF THE TREE OR SHRUB TO BETERPLACED.

PRUNNO OF EXISTING THEES, AS IDENTHEED ON THE PLANS, SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL SOCIETY OF ARBRICULTURES. THEE PRUNNING GUIDEUWES, THE ANSI AGOD PRUNING STANDARD AND THE MOST RECENT EDITION OF ANSI 27:23.1,

IF UNDERGROUND UTILITIES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED OR BORED UNDER THE TREE.

REMOVE TEMPORARY PROTECTION DEVICES AND FACILITIES INSTALLED DURING COURSE OF WORK AFTER COMPLETION OF ALL WORK AND RESTORE PLANT PROTECTION AREAS TO THEIR ORIGINAL CONDITION.

In splan was orginally prepared by Lamouleau, & Dackboom Consulting Engineer in the Stift or this boan after May 14, 2022 where principles of the Consulting Engineer in the Consulting Engineer in the Consulting Consultin

1.3 PROJECT DESCRIPTION EPSC PLAN NARRATIVE

THIS PROJECT INCLUDES NEW DRIVEWAY AND BUILDING CONSTRUCTION AND STORMWATER BUP CONSTRUCTION, DREAMAGE AND RELATED TERMS. THE AREA OF DISTURBANCE INCLUDES LIMITS OF WATH DETURBANCE WITHIN THE WASCEL MEET.

THE TOTAL AREA OF BETWEENING AS SHOWN ON THE ATTACHED EPILSE PLAN IS APPROXIMATELY.

1.2 SITE INVENTORY IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

13.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA IS MODERATE TO STEEP VIDETATED SLOPES, THE STORMWATER DESIGN INVOLVES GRADE CHANGES TO THE EXSTING TOPOGRAPHY:

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THE VEGETATION WITHE PROJECT AREA CONSISTS PRIMARLY OF MATURE TREES. "HE MAPAT TO VEGETATION WITHER TREES "HE MAPAT TO VEGETATION WITH SET OF THE WAYCH IS DIRECTLY A PRECIDED WOONSTRUCTION OF THE WEARD FROM SULDING, AND STORMWATER FATURES, MONAMER WOULS SURFACES WILL BE ESTABLISHED WHIT SET MONADED SEED AND MULICIPE PRACTICES. HIS PROLECT IS LOCATED IN AN UPLAND AREA. WITH A CLASS 2 WETLAND TO THE SOUTH.
HIS PROLECT IS LOCATED IN AN UPLAND AREA. WITH A CLASS 2 WETLAND TO THE SOUTH.
WORTH ON THE SCHOOL PROPERTY WHERE IT INFILTRATES INTO THE WELL DRAMED SOILS.

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF ADDISON, VERMONT, SOILS ON THE PROJECT SITE ARE AS FOLLOWS

COLTON GRAVELLY SANDY LOAM 0-3% SLOPES (K-FACTOR OF 0.1)

THE SOILS ARE CONSIDERED TO HAVE A LOW ERIOSION POTENTIAL

NOTE: K-FACTORS, GENERALLY INDICATE THE FOLLOWING: 0 01 - 0 23 = LOW EROSION POTENTIAL 0 24 - 0 38 = MODERATE EROSION POTENTIAL 0 37 - HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CENTICH, MERTATS: NO
CENTICH, MERTATS: NO
METHER CARCILL TURN, LAND THE COLLTON SOAL ACRE CONSIDERED STATEWIDE AG SOILS
THEALTHED AND BIOLAMERED SPECES NO
METHALED AND ENLOWERED SPECES NO
WETHATE SEDURCE MAY.

1,3 RISK EVALUATION

THIS PROJECT FALLS INCRET THE JURISDICTION OF GENERAL REBRIT "\$4025 OD 8 TOMMWITE RUNCHE FROM CONSTRUCTION STIES FOR COWNISK PROJECTS. ANY WOD FICKNIONS TO THE PROJECT THAT INCREASE THE RISK TO EMPROVMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE FERMITTING.

1.4 EROSION PREVENTION AND SEDMENT CONTROL

ERGISION CONTROL, PLANS ARE WANT AS A COUDUME FOR PRESENTING ERGORA AND NIROLAND SERVING THE WANTE OF THE PROJECT TO MINING THE SERVING THE WANTE OF THE PROJECT TO MINING THE SERVING THE WANTE OF THE PROJECT TO MINING THE WANTE OF THE WANT

MEASURES SHALL BE REGILVALY MANYTAINED AND SHALL BE CHECKED FOR SEIDIMENT D-UP, SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE JECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS WHERE CONSTRUCTION EQUIPMENT CAN ACCESS THE PROJECT SHALL HAVE PROJECT DEMARCATION FENCING (PDF).

LA LAMIT CRITICAL MATA.

PROFENTAN INTIAL SCILL EROSCOUR SY MININUENCE THE EXPOSED AREA IS MUCH MORE EFFECTIVE
THAN TERMINUE FROODER SEZIMENT. EMPT ORSITURATED.

CONSTRUCTION PROFESSOR SO VON, YOFENION, DUE PARTH AS RECESSARY. THIS CANUMIT THE AREA.

THAT MILL ER STRUMELD AND EXPOSED TO BERGSON, EMPC DY TEMPORATE CONSTRUCTION

STANDLE TO MORE PROFESSOR SEN AND EXPOSETIVE STANGES AS PASSES CHANGEL TO READERT WHICH

MILL ORDINATION MAY SEN STRUCTION OF THE PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR DESCRIPTION OF THE PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND PROFESSOR OF THE PERMIT

AUTHORIZATION MAY SENSOR SORGERS AND PROFESSOR OF THE PERMIT

14.1 SITE BYTRANCEIENT STABILICATION 14.1 SITE BYTRANCEIENT STABILICH HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTAL FOR RUNOFF ENTERING RECEIVING WATERS

ALINSTALL SEDMENT BARRENS EDMENT BARRENS SPALL BE UTILAZED TO INTERCEPT RUNDEF AND ALLOW SUSPENDED SEDMENT O SETTLE OUT THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK

(AS DIVERT UPLAND RUNDER THE OVERTHE RESENTED FROM ABOVE THE DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNDER FROM ABOVE THE CONSTRUCTION AND DIRECT IT RACOUND THE DISTURBED AREA SO THAT CLEAN WATER DDES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOLS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLATI THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY

AG SLOW DOWN CHANNEL ZED RUNDER.
CHEOK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE
POTENTIAL OF CONCENTRATED FLOW IN CHANNELS

"A CONSTRUCT PERMANENT CONTROLS
PERMANENT STORMWATCH CONTROL DEVICES SHALL BE INSTRUCED AS SHOWN ON THE FLANS AND
IN ACCORDANCE WITH REMIT CONDITIONS, PERMANENT STORMWATER TREATMENT CONTROLS
INCLUDE A STORMWATER INFILTRATION BASIN AND STABILIZED OUTFALL

ALLAÉS JOE EL ZE ELPOSED SOILS DURING CONSTRUCTION
ALLAÉS GO: DISTRUACE MUST FLAVE TEMPORATES (FAUELIZATION IN PLACE WITHIN 48 HOURS
OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION CENERAL PERMIT 9-0020
AUTHORIZATION.

AGE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MUICHING SHALL TALZED ON A REGULAR BASIS, BIODEGRADABLE EROSIGNIC OWN FOLK MATTING OM AM INALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1.3.

".4.4 WINTER STABLEATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND

NTO WINTER (OCTOBER 15 THROUGH APRIL 15) REFER TO THE LOW RISK SITE HANDBOOK FOR THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE

SEED MILOH FERTILIZER AND LIME SHALL BE USED TO EST/BALISH FERMANENT VEGETATON, FOR SLOPES STEEDER THAM 13 BOOGEGANDRIE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED NOSTEAD OF MILICH NO SLOPES GRENTER THAN 12 ANE EMTICIPATED

1.441 DE-MAYTERING ACTIVITIES

NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

A.4.2) MERCHY YOUR SITE
NOSECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION
CLIMEDAL REBUIL ALTHORIZATION STRUCKTIONS

1.4 SEQUENCE AND STAGNAC THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VITRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.3 CONSTRUCTION SEQUENCE
INSTALL ALL EROSION PREVENTION AND SEDIMEN
CONSTRUCTION

23 OFF-SITE ACTIVITIES ADDITION 10 THE CONSTRUCTION CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS HALL FOLLOW SPECIFICATION 105 25-105 29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

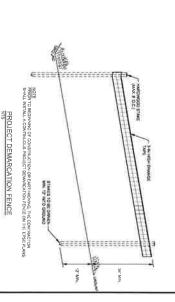
1.53 UPDATES

STUMP DISPOSAL SPECIFICATIONS

THE STUMPS, BRUSH, AND EXCESS UNSUTTABLE EARTH WILL BE DISPOSED OF AT A STATE-APPROVED LAACHEL. IF ON-SITE STUMP DISPOSAL IS INFLEMENTED THE FOLLOWING DUCT IN TEACH, I THE FOLLOWING DUCT IN TEACH, I THE FOLLOWING DUCT IN TEACH, I THE FOLLOWING DUCT IN TEACH, I THE FOLLOWING DUCT IN TEACH, I THE FOLLOWING DUCT IN TEACH, I THE FOLLOWING DUCT IN TEACH DUCT.

- WHENEVER POSSIBLE, STUMP DISPOSAL SITES SHOULD BE LOCATED ON NEARLY LEVEL TO MODERATELY SLOPING LANDS (SLOPES LESS THAN 12%).
- DISPOSAL SITES WILL NOT BE LOCATED IN OR WITHIN 100 FEET OF FLOWING WATERCOURSES OR STREAMS OR IN ACTIVELY ERODING GUILLIES.
- DISPOSAL SITES SHALL NOT BE LOCATED IN FLOODED OR FLOOD-PRONE LANDS, MARSHES, OR OTHER ADUITER RECHARGE AREAS.
- STUMPS WILL BE PLACED ON THE SITE IN A SINGLE LIFT PRIOR TO BACKFILLING, WHEN ADDITIONAL STUMPS ARE TO BE DEPOSITED ON THE SAME SITE, EACH SUCCESSIVE LAYER OR LIFT OF STUMPS WILL BE BACKFILLED.
- STUMPS DEPOSITED IN DRAINAGEWAYS OR DEPRESSIONS SHALL BE BACKFILLED AND BERMED SO AS TO DIVERT OVERLAND FLOWS FROM THE DISPOSAL AREA
- A MINIMUM OF TWO FEET (2') OF OVERBURDEN WILL BE PLACED OVER ALL DISPOSAL SITES
- TREES GUT FOR THIS PROJECT SHALL BE HANDLED IN ACCORDANCE WITH THE EMERLAD ASH BORER SPECIAL PROVISION FOUND IN THE BID DOCUMENTS

This plan was objictly prepared by Loncureau & Dickhool Consulting Spanies Nr. Cells to the plan of the May 16, 2022 were performed by 10°C. Inc. Client appeal to indiaminity and hold homness (1°C. Inc. Client appeals to be or costs. Including reasonable all armys' fees and delenne costs, coiled including reasonable all armys' fees and delenne costs, coiled an allegady acide (for may regispert acids, army or omissions. By any prior consultant relatined by the Client for this project.



SEE VTRANS STANDARD SHEETS E-10, E-12, AND E-15 FOR ADDTIONAL EPSC DETAILS AND REQUIREMENTS.



CONTRACT PLANS NOVEMBER, 2022

EPSC DETAILS & SPECIFICATIONS



Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Mune Drive, Esser, VT 05452
802-878-4450 www.LDengueering.com

RIPTON STP MM 19(18)

19029

4

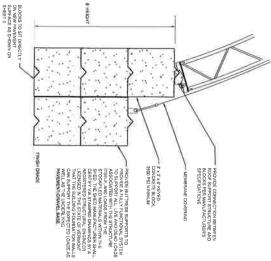
BUILDING REQUIREMENTS

- STRUCTURE TYPE: PREFABRICATED MEMBRANE COVERED TRUSS STRUCTURE
- 2. GOVERNO BUILDING COOK 18C 2018
- MINIMUM ROOF LOADS (BASED ON COMMERCIAL LOW HAZARD USE/OCCUPANCY)

祖田報

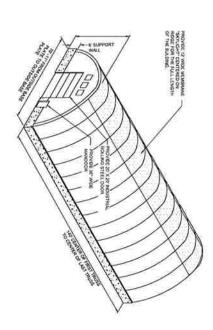
- MIN DESIGN DEAD LOADS: 21 PSF MIN COLLATERAL LOAD: 0.25 PSF MIN LIVE LOAD: 12 PSF MIN SNOW LOAD: 60 PSF MIP SNOW LOAD: 60 PSF MIP STANCE FACTOR: 0 B CI = 1 2
- * WHO DESKN
- BASIC ULT WATE WIND SPEED, 105 MPH
 WIND EXPOSURE: C
 BASICICLADING: 1
 BASICICLADING: 1
 ROOT HEIGHT, 40 NOMINAL
 DESIGN ENCLOSURE PARTIALLY ENCLOSED
- 5 SEISMIC DESIGN
- ST CAME ACTOR S
- MECHANIC COLOR: TO BE SELECTED BY THE TOWN OF REPTON AFTER AWARD OF THE CONTROL THAT HE HALD NOW ANALYSACL MERIS. WORKIN A WAR WHILE FELL MANUS FROM A WAR AND FERENT MANUS FUTURERS WHILE DIFFERENT CONTROL SEAL MANUS DIFFERENT AWARD FOR THE MEDICAL TOWN THE MEDICAL SEAL WARD AND THE FULL LENGTH OF THE RIDGELNE. OPHORIS REMERANCE ALONG THE FULL LENGTH OF THE RIDGELNE.

SEE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND SPECIFICATIONS FOR THE STRUCTURE





LIKENESS OF PROPOSED SAND & SALT SHED BUILDING



SHED DIMENSIONAL DETAIL

- DIMENSIONS ABOVE ARE BASED ON A PROPRIETARY MANUFACTUREZ AND MAY VARY THE EXTERIOR NOMINAL DIMENSIONS OF THE SHED SHALL BE 72" BY 140".
- THE FLOOR OF THE SHED SHALL BE SUPERPAVE BITUM/BYOUS PAVEMENT MEETING THE TYPICAL PAVEMENT AREA CROSS-SECTION: SHOWN ON SHEET 3.

CONTRACT PLANS NOVEMBER, 2022

SAND & SALT SHED DETAILS

RIPTON STP MM 19(18)

& SPECIFICATIONS

This pan was adjanally pregated by Lamaceux & Balderiaar Cansulfing gippieses in F. Edit is the blan after May 14, 2022, were performed by TCE, Inc. Client against in indemnify and hald harmess (T.E. Inc. (prim any domings, lichelities or costs, and any expension of the provision of the provision of the provision of the provision of a legislative area of the provision of a legislative area for any edisplant acts, areas to combising by any prior consultant instances to combising by any prior consultant instances or the provision of the provision

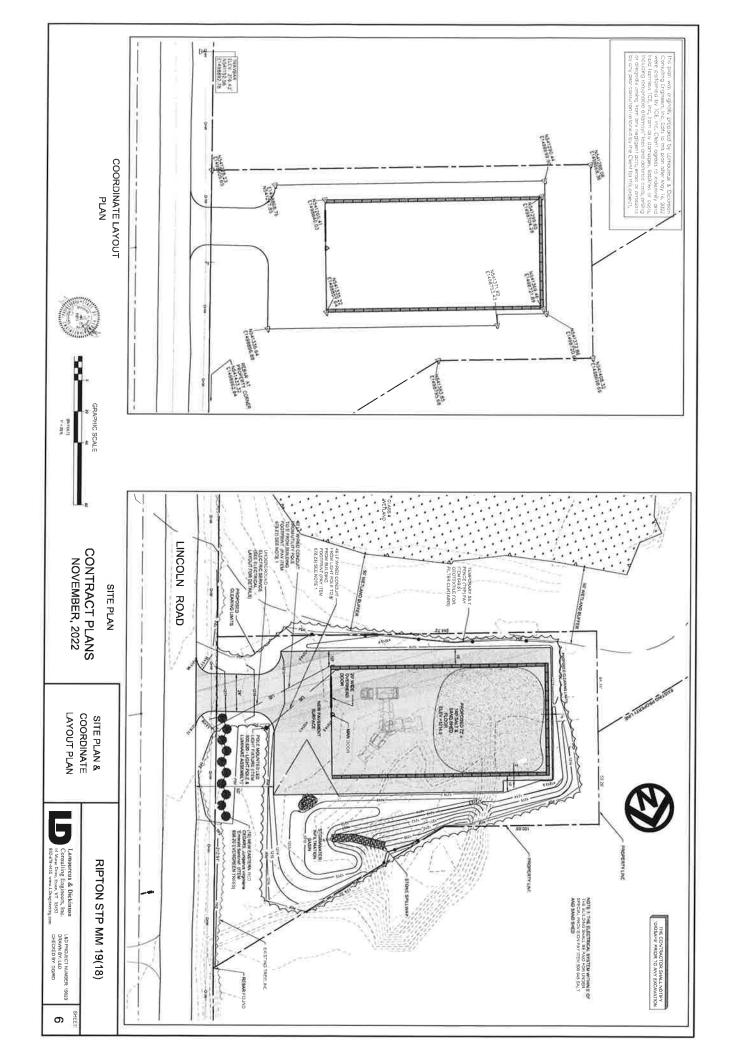
1. CONCRETE BLOCK MATERIALS SHALL BE ADPROVED BY BUSINEER,
2. WHERE FRASBILE BLOCK LYNOUT SHALL BE SLOFT HAT THE VERTICAL,
JOIN'S ALONG EACH COLURES OF BLOCK SHALL BE DOFFSET WITH THE JOIN'S
ALONG ADJACHET COLURES.
BLOCK CONNECTION OBTALS ARE PETCHALL ONLY AND MAY WARY
DEPENDAG ONS TROUTTER MANUFACTURES.

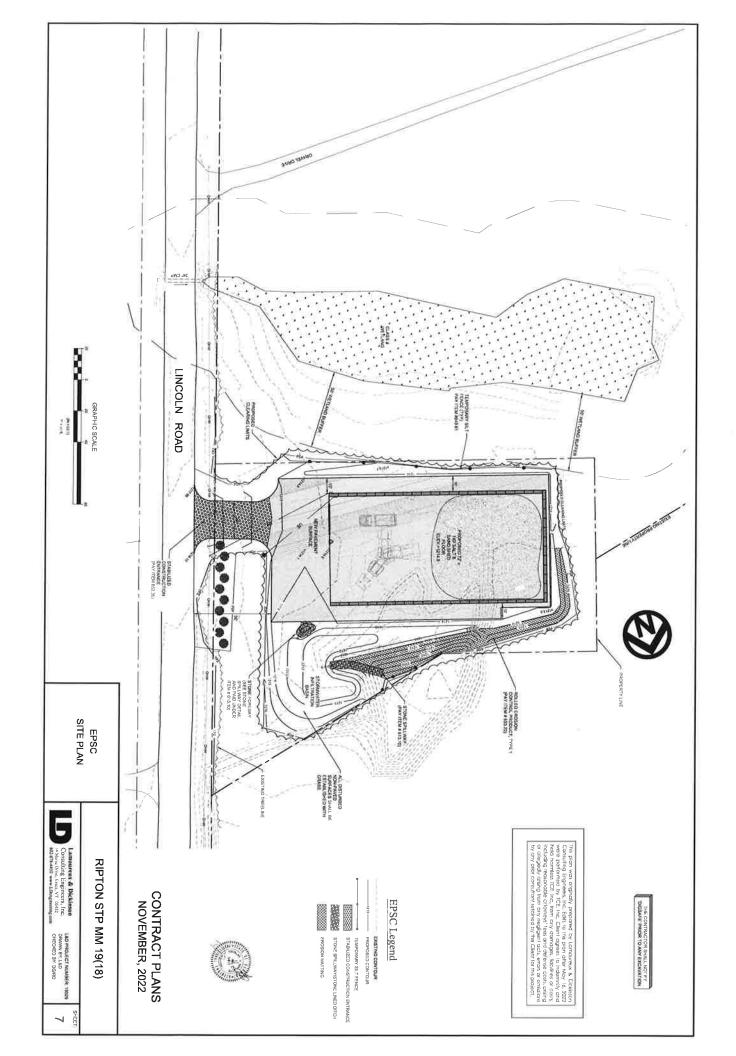
SHED WALL CROSS-SECTION

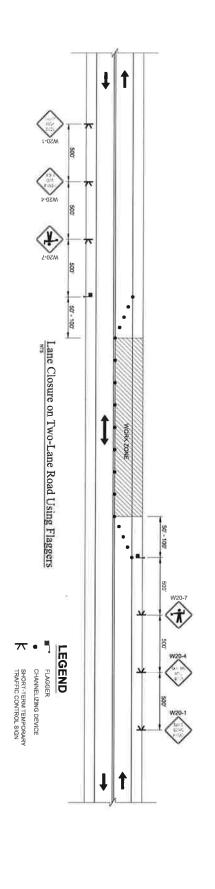
Lamoureux & Dickinson Consulting Engineers, Inc. 14 Mone Drive, Essex, VT 05452 802-478-4450 www.LDenghertog.com

CHECKED BY DOWND

G







- TRAFFIC CONTROL NOTES

 1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPROPRIATE VITANUS

 E 8T SERIES STANDARD DEPARMINGS MOD THE CURRENT EDITION OF THE MANUAL
 ON UNHERBIN TRAFFIC CONTROL DEPARES (MUTCO), AND ITS LATEST REVISIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING, ERECTING AND MAINTAINING DEDICES FOR THE PLANNED METHODS OF OPERATION IN CONFORMANCE WITH THE MUTCD.
- WORK ON THIS PROJECT, OR ANY SEPARATE ACTIVITY THEREIN, SHALL NOT START UNTIL ALL REQUIRED SIGNS AND WARNING DEVICES ARE INSTALLED.
- NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT. THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCES, AND CORNER SIGHT DISTANCES FROM DRIVES AND TOWN HIGHWAYS.
- ALL TEMPORARY TRAFFIC CONTROL SIGNS SHOWN ON THIS SHEET ARE SHORT-TERM SIGNS AND SHALL BE ERECTED DURING CONSTRUCTION PERIODS AND REMOVED AT THE END OF THE WORK DAY.
- THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES OR COORDINATE EMERGENCY ROUTES PRIOR TO THE START OF CONSTRUCTION.
- ALL REASONABLE EFFORTS SHALL BE MADE TO ACCOMODATE PEDESTRIAN TRAVEL AT ALL TIMES, THIS CAN INCLUDE, BUT IS NOT, MITED TO A DEDICATED PEDESTRIAN ESCORE (NOT PENASEER ON DUTY) SEGNIGE, MOD PEDESTRIAN CHARLEDING DEVICE WALKNAYS THAT MEET ADA REQUIREMENTS.
- THE CONSTRACTOR SHALL NOT PLACE OBSTACLES, EQUIPMENT, CONSTRUCTION MATERIALS, TRAFFIC CONTROL DEVICES, ETC., SO THAT THEY MAY ENCROACH INTO A BICYCLE PATH OF TRAVEL SUCH AS A BICYCLE LANE OR PATH.



CONTRACT PLANS NOVEMBER, 2022

In plan was aginally prepared by Lamouteus, & Dictivisaria. Consulting displaces inc. Edits in this plan after May 11, 2022. were principled by 11 CE. Inc. Clien lagress to indemnity and hold harmless (TE. In. (prin any domages, leakille or cast), recluding reasonable attempt less and advises acuts, activing a chilegelly activity (nor may heighber lack; proxip acuts). By any prior consultant leathers by the Clien for this poject.

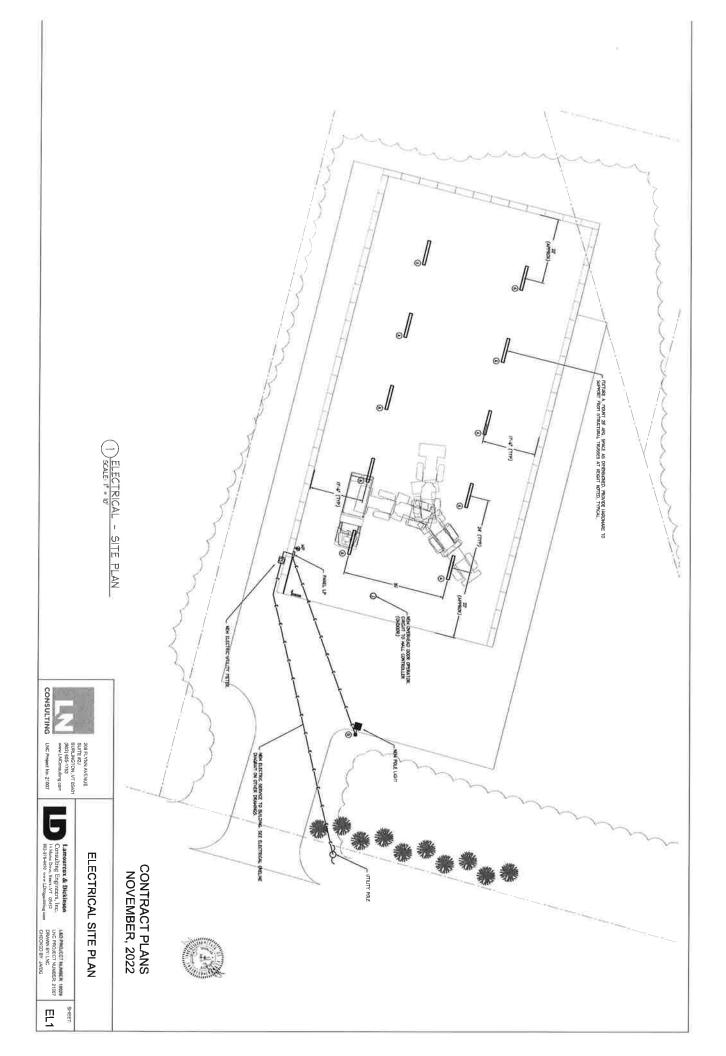
RIPTON STP MM 19(18)

5 Lamoureux & Dickinson
Consulting Engineers, Inc.,
14 Mora: Drive, Essex, VT 05452
802-878-4450 www.LDenguarering.com

TRAFFIC CONTROL PLAN

CHECKED BY DOWND

 ∞



-	mm (ii)	THE MAIN	· NON P	WA.A	BANK		SULPHY SELLS	CREDEN
JUNCTION BOX	עחעוז אבופג	ERIFORM TOWNER OF RECOMMENDE	OTE LOWLED FROM EXCUSE	SKUCHT FRANK FORTING	BLANK INDICATES ABYOVE GRADE	ELECTRIC EQUIPMENT SIZES VARY,	PERM	

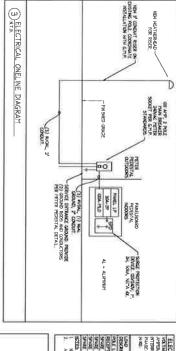
THE PRODUCTION THE FINDS CHARGE SERVING AND HELD (MPROX) (B) SEE PRESENTATIONS (C) SEE PRESENTATION SEE NOTE A SEECUL SEE NOTE A SEECUL SEE NOTE A SEECUL SEE NOTE A SEECUL SEE NOTE A SEECUL SEE NOTE A SEECUL SEE NOTE A SEECUL SEE NOTE A SEECUL SEE NOTE A SECUL F	TING SCHEDULE					
SEE NOTE A BELIAM AR IN LED (APPROX) (20V	Ē	NOTABORIO	LWG 4 LCCET	(AP(5)	VALIS	ш
- BB W LED (APPROX) (20V	⊚	8' LED VAPORTIGHT	SEE NOTE 4 BELON	ASI M LED	120V	COORDINATE EXACT LOCATIONS IN FIELD TO ACCUSTODATE CONFRESSORS. PROVIDE INTEGRAL OCCUPANCY/PHOTOEYE SENSORS, COLD MEATH-REMIET LOCATION
	0	SEL SECRETARIOS		(ADDROOK)	VQC)	AND OCCUPANCY SENSOR TO DIPOTURAL OFF LIGHT.

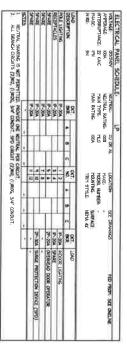
PROVICE ALL MANDAGE SCALEST FOR PAINTING CONFIGURES TO THE CONFIGURES ASSECT THESE TOURING SCALESTAND DATE CALCULAR FOR ALL TRUTINES IS TO BE CONFIGURED IN FIELD.

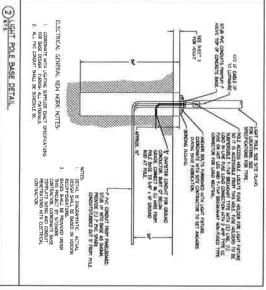
RECORDED MANUEL SCALESTAND DATE CALCULAR FOR ALL TRUTINES IS TO BE CONFIGURED IN FIELD.

RECORDED MANUEL SCALESTAND DATE CALCULAR FOR ALL TRUTINES ASSECTION FOR ASSECTION FOR ASSECTI

-444







LUTATI HY WAY (ESPANA DI JAMPOTI, YSSY) EMAT LATAT NO DIREGIOS OF FEDERAL TO ACCUTEDATE ALL COMPETE ALL CADITI SHALE EX-CADALS O IN-CADATICAGAT ACES.

ELECTRICAL GENERAL NOTES:

ELECTRICAL SPECIFICATIONS:

- ALL CODUCTS REMATIONS FOR BLAN TO ADOF GRAND SHALL HAVE DEVISION ALL DOTTONS TRANSPORNED BLANCE OF THE ADDRESS

71-

CONTRACT PLANS NOVEMBER, 2022

OTTRICAL ELECTRICAL CONDUIT TRENCH DETAIL

ELECTRICAL GENERAL NEW WORK NOTES:

ALL ARCING

ALL INDER GROWND CONDUITS SHALL BE SCHEDULE NO PYC.
HUDER GROWN D. LYCH DEATH OF 24*
BELDH GROVE ALL INDERGROWND DUCT DANKES SHALL BE FIELD
COREDINATED NITH HEN AND EXSTING UTILITIES

BACKFILL HETH NATIVE SOIL

24 (HARTLE)

MAGNETIC MARNING TAPE-

STATES TO CAST WARRY

SCHEDULE BO PVC CONCUST

ELECTRICAL NOTES, LEGENDS, RISERS AND DETAILS

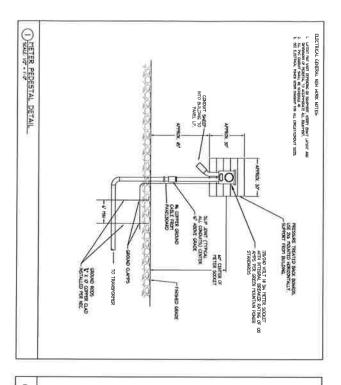
Consulting Engineers, Inc.
14 Mone Dave, Essey VT 05452
802-675-4450 www.LDenguisering.vum

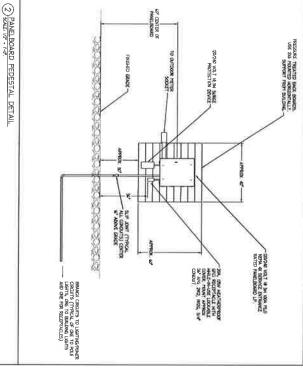
208 FLYNN AVENUE SUITE #23 BURLINGTON, VT 05401 (802) 665-1753 www.LNConsulting.com LNC Project No. 21007

CONSULTING

LAD PROJECT NUMBER: 1609
UNC PROJECT NUMBER: 21007
DRAWN BY: LNC
CHECKED BY: JACOG









CONTRACT PLANS NOVEMBER, 2022



Lamoureux & Dickinson

Consulting Brigmons, Inc.
14 Man Proc. Ear. VI 1952.
15 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
16 Polymon Ear. VI 1952.
17 Polymon Ear. VI 1952.
17 Polymon Ear. VI 1952.
18 Polymon Ear. VI 1952.
18 Polymon Ear. VI 1952.
18 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1952.
19 Polymon Ear. VI 1

CONSULTING

208 FLYNN AVENUE SUITE #2J BURLINGTON, VT 05401 (802) 655-1753 www.LNConsuling.com LNC Project No. 21007

EL3

Estimate FINAL

Estimated Cost:\$468,029.11

Contingency: 0.00%

Estimated Total: \$468,029.11

Conceptual Plans

Base Date: 07/13/21

Spec Year: 18

Unit System: E

Work Type: BUILDING CONSTRUCTION

Highway Type: LOCAL

Urban/Rural Type: RURAL

Season: CONSTRUCTION (APRIL 15th - OCTOBER 15th)

County: RIPTON

Latitude of Midpoint: 441456

Longitude of Midpoint: 724454

District: NW

Federal Project Number: Ripton STP MM 19(18)

State Project Number:

Estimate Type: FINAL PLANS

Prepared by NDS on 07/13/21 Checked by DJG on 07/13/21 Line # Item Number

Description Supplemental Description Group 1011: Facility 0005 201.10 1.000 LS \$5,000.00000 \$5,000.00 CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS 0006 201.15 24.000 EACH \$300,00000 \$7,200.00 REMOVING MEDIUM TREES 204.20 CY 0007 27.000 \$79.81323 \$2,154.96 TRENCH EXCAVATION OF EARTH 0009 203.15 1,090.000 CY \$15.77389 \$17,193.54 COMMON EXCAVATION 0011 203.32 320.000 CY \$28.95957 \$9,267.06 **GRANULAR BORROW** 0014 301.25 811.000 CY \$36.26158 \$29,408.14 SUBBASE OF CRUSHED GRAVEL, COARSE GRADED 0015 406.35 438.000 TON \$150.00000 \$65,700.00 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT 0019 609.10 0.500 MGAL \$43.00000 \$21.50 **DUST CONTROL WITH WATER** 0020 613.10 15.000 CY \$55.00000 \$825.00 STONE FILL, TYPE I 0028 630.15 80.000 HR \$40.00000 \$3,200.00 **FLAGGERS** 0029 635.11 1.000 LS \$39,000.00000 \$39,000.00 MOBILIZATION/DEMOBILIZATION 641.11 1.000 LS \$1,000.00000 \$1,000.00 TRAFFIC CONTROL, ALL-INCLUSIVE 0031 649.11 1,947.000 SY \$3.24704 \$6,321.99 GEOTEXTILE FOR ROADBED SEPARATOR 608.30 \$65,00000 0032 8.000 HR \$520.00 POWER BROOM RENTAL, TYPE I 0033 649.31 SY 31.000 \$6.02459 \$186.76 GEOTEXTILE UNDER STONE FILL 0034 653.55 781.000 LF \$1,15545 \$902.41 PROJECT DEMARCATION FENCE 656.85 0039 LS 1.000 \$1,000.00000 \$1,000.00 TREE PROTECTION 0041 678.23 126.000 LF \$25.63159 \$3,229.58 WIRED CONDUIT 900.620 0042 1.000 **EACH** \$4,750.00000 \$4,750.00 SPECIAL PROVISION (Light Pole & Luminaire Assembly) 900.645 1.000 0043 LS \$255,000.00000 \$255,000.00 SPECIAL PROVISION

1.000

LU

\$1.00000

Quantity Units Unit Price

(Salt & Sand Shed) 0055 406.50

PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)

\$1.00

Extension

Sti	mate:	FI	NAL
-04	maio.		14/7

Line # Item Number

Description Supplemental Description	<u> waaninty</u>	Onits	Ontrice	Extension
			-	Total for Group 1011:\$451,881.94
Group 1015: Erosion Control				
0045 651.15 SEED	32.000	LB	\$7.53230	\$241.03
0046 651.18 FERTILIZER	132.000	LB	\$3.07743	\$406.22
0047 651.20 AGRICULTURAL LIMESTONE	0.100	TON	\$759.89242	\$75.99
0048 651.35 TOPSOIL	140.000	CY	\$58.95809	\$8,254.13
0049 653.02 MONITORING EPSC PLAN	8.000	HR	\$40.00000	\$320.00
0050 653.10 HAY MULCH	0.500	TON	\$500.00000	\$250.00
0051 653.20 ROLLED EROSION CONTROL PRODUCT, TYPE I	185.000	SY	\$2.41516	\$446.80
0053 653.35 STABILIZED CONSTRUCTION ENTRANCE	31.000	CY	\$67.44735	\$2,090.87
0054 649.61 GEOTEXTILE FOR FILTER CURTAIN	77.000	SY	\$15.39234	\$1,185.21
				Total for Group 1015:\$13,270.25
Group 1016: Facility - Non-Participating				

10.000 EACH \$287.69202

Quantity Units Unit Price

Total for Group 1016:\$2,876.92

0056 656.20

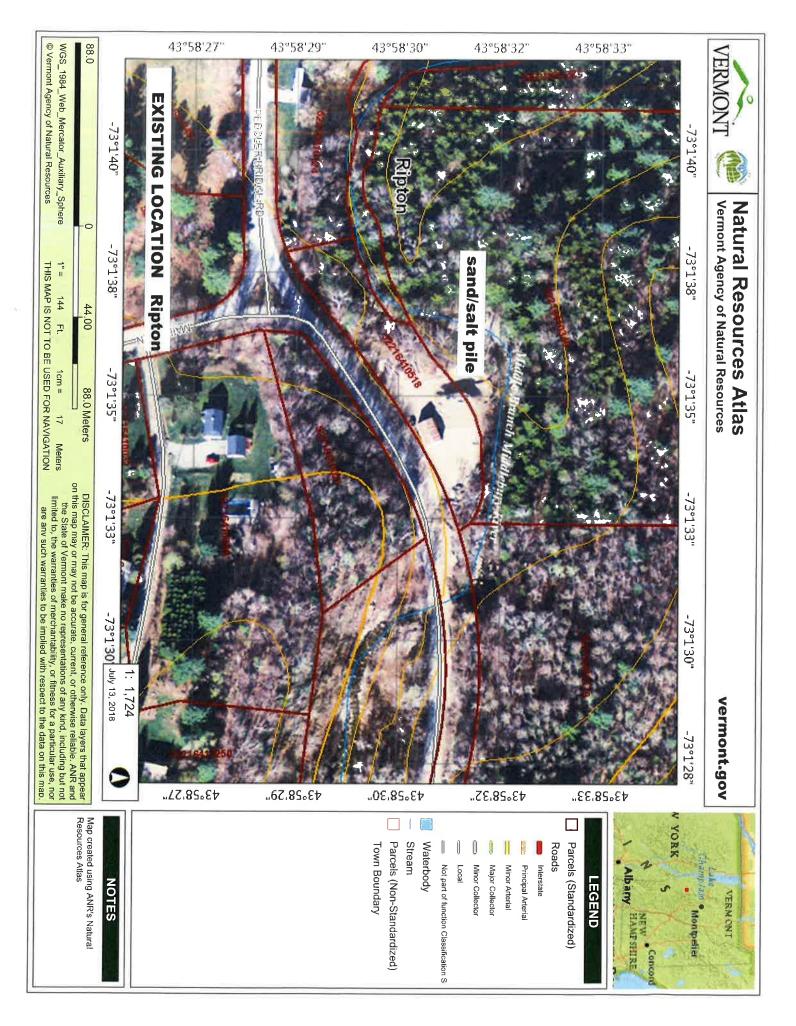
EVERGREEN TREES

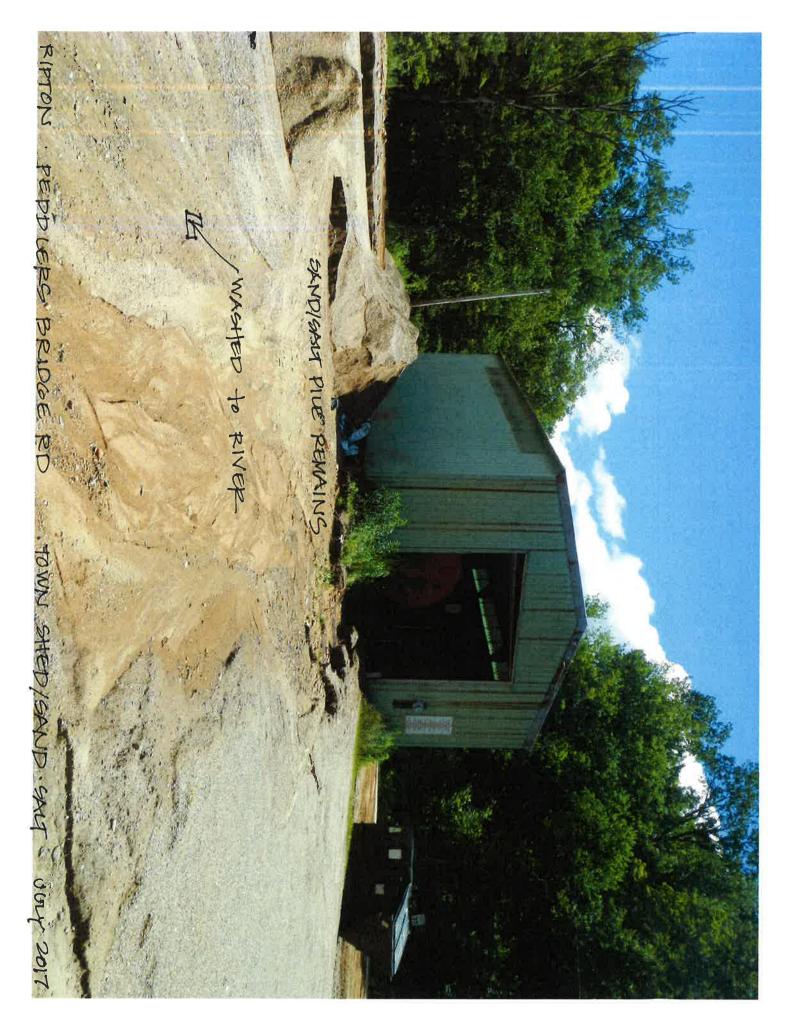
\$2,876.92

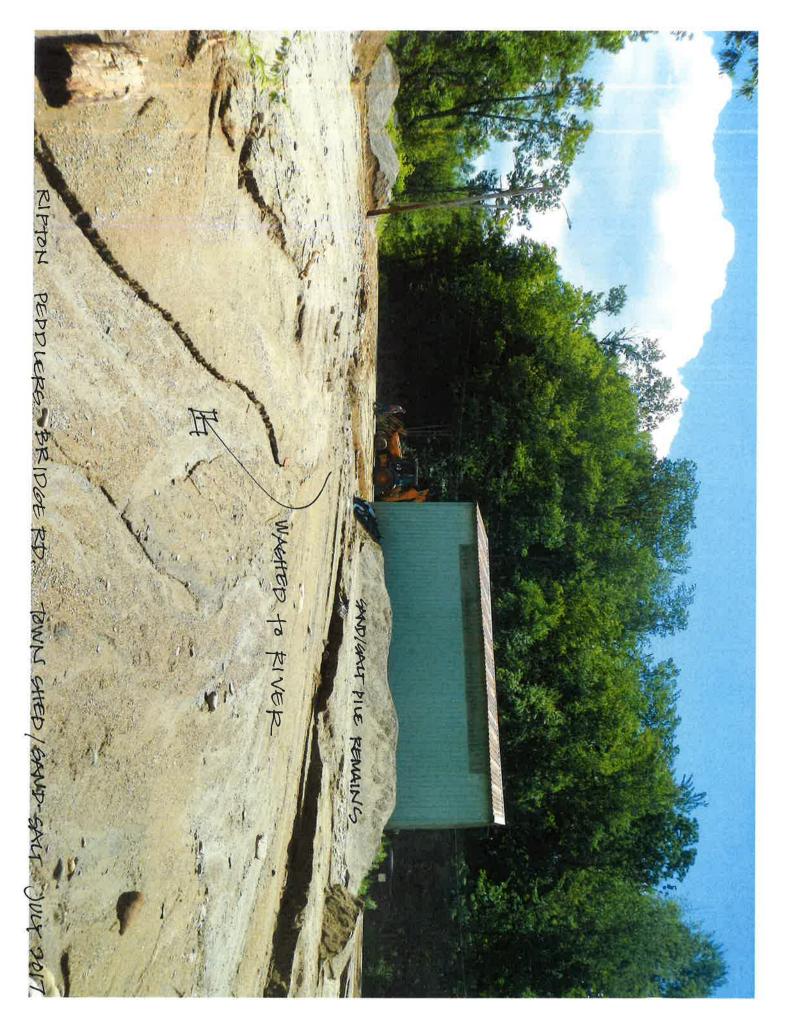
Extension

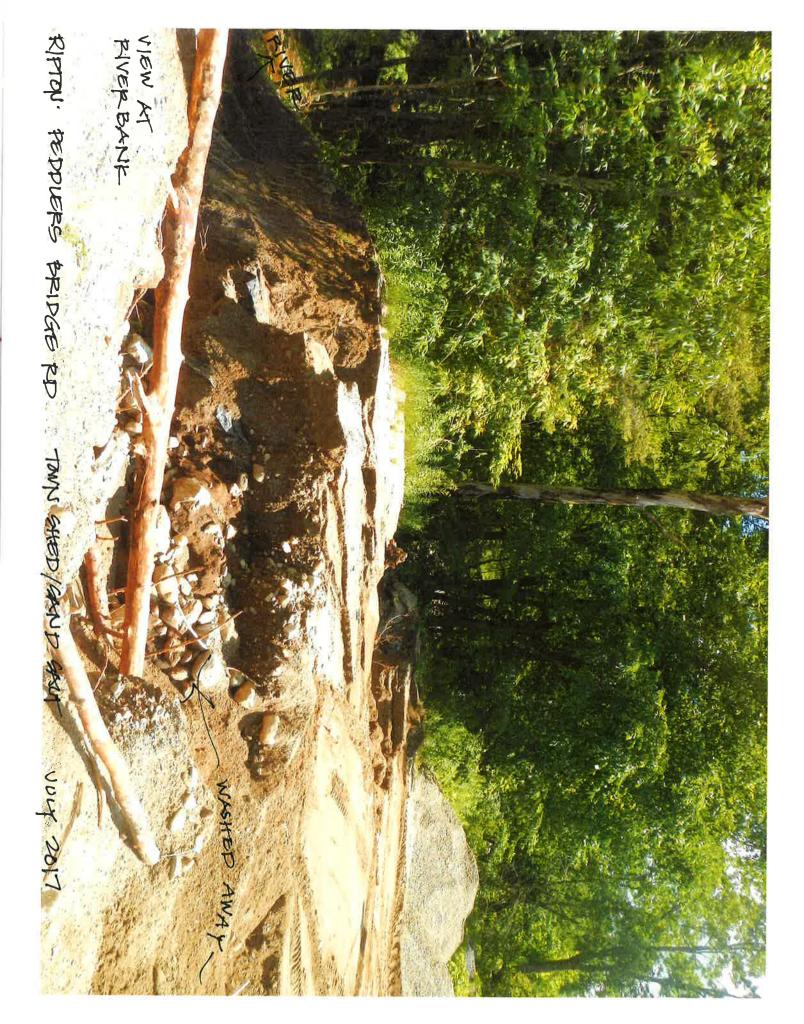
EXISTING LOCATION Ripton sand/salt pile

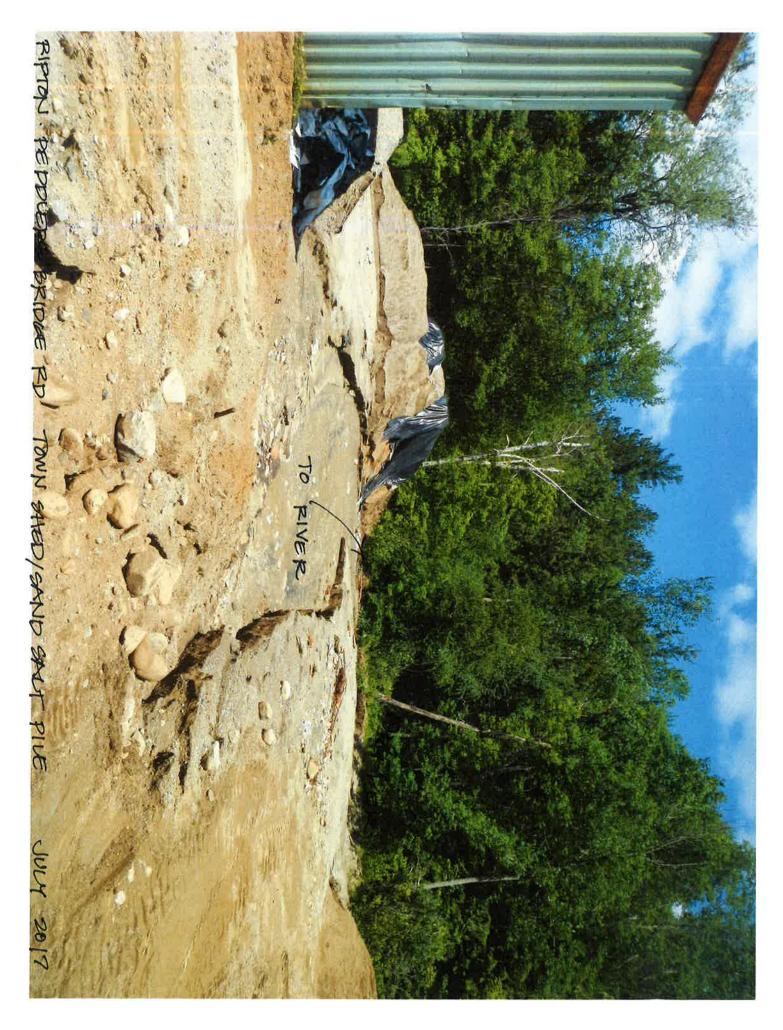
JOINS 09 ZONE C ZONE C Green Mountain National Forest -ZONE A ZONE A 90 SNIOF JOINS 14 ZONE C Green Mountain National Forest ZONE A ZONE C Green Mountain National Forest ZONE C Green Mountain National Forest JOINS 11 APPROXIMATE SCALE federal emergency management agency TOWN OF RIPTON, VT (ADDISON CO.) 5 FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 500010 B EFFECTIVE DATE SEPTEMBER 18, 1985













2011 FLOOD DAMAGE

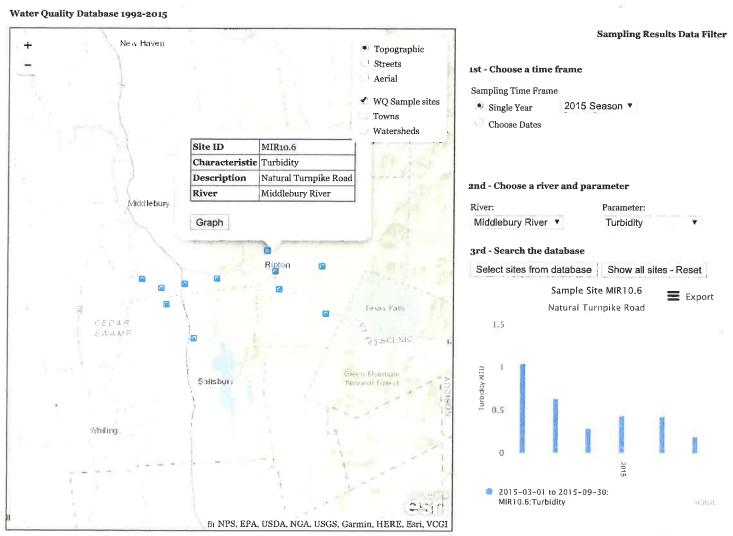


2000 FLOOD PHOTO

Supplemental Information: Ripton application

The Addison County River Watch Collaborative samples water quality at a site in the Middle Branch of the Middlebury River near Billings Bridge on Natural Turnpike in Ripton. This site is downstream of the town sand/salt pile on Peddlers Bridge Road. The sample site is also downstream of Sparks Brook which joins the river below the town sand/salt pile. The most recent graph publicly available showing turbidity measures at the sample site is below.

Addison County River Watch Collaborative



ACRWC Summary Reports by year and watershed

Addison County River Watch Collaborative Home

Addison County Regional Planning Commission | 14 Seminary Street Middlebury, VT 05753 | 802.388.3141 |

Supplemental Information: Ripton application

Summary of Declared Disasters 1973-2017

From Town of Ripton, Vermont Single Jurisdiction Update All-Hazards Mitigation Plan

1.6. Community Risk Assessment

In Ripton, the interviews for the 2013 plan indicated that the following hazards should be listed as High or Medium-High in terms of likelihood –Power Failure, Flooding, High Winds, Landslide, Lightning, HazMat (Transportation Accidents), Structure Fire, Wildfire, and Winter Storm. In terms of Vulnerability, the town rated these hazards as High or Medium-High –Flooding, Landslide, HazMat, Wildfire, Winter Storm and Earthquake. Hazards that rated as high total risk include Flooding, Landslide, HazMat, Wildfire, and Winter Storm. (see complete HIRA table for Ripton at Annex E.)

A 2017 reassessment of Ripton's hazards and risks by the hazard mitigation committee indicated that Flash Flood, High Wind and Ice Storm still comprise the greatest concerns in town. Of lesser concern yet still of elevated priority were Inundation Flooding and Severe Snow events. These 5 hazards are profiled to a greater extent in 1.6.1. Remaining hazards assessed including Dam Failure, Lightning Strike, Hail, Tornado, Drought, Wildfire, Earthquake, Infectious Disease, Insect-borne Illness, Invasive species, Extreme temperature, HazMat Spill, Highway Accident, Structure Fire and Rockslide were considered of lesser concern to committee members and were not profiled in depth. Given the actual expenses the community has incurred since 1973, (See Table #1 Below), the committee's assessment closely mirrors its disaster experience.

Date	Description	Dec. #	County Cost	Ripton
7/6/1973	Storms, Flooding, Landslides	DR397	\$ Unavailable	Unknown
8/5/1976	Storms, High Winds, Flooding	DR518	\$ Unavailable	Unknown
9/6/1977	Drought	EM3053	\$ Unavailable	Unknown
8/4-5/1989	Severe Storms, Flooding	DR840	\$ 31,033	Unknown
4/24-5/26/1993	Flooding, Heavy Rain, Snowfall	DR990	\$ 17,639	Unknown
1/19-2/2/1996	Storms, Flooding	DR1101	\$ 130,529	Unknown
1/6-16/1998	Ice Storms	DR1201	\$ 662,388	Unknown
7/17-8/17/1998	Severe Storms and Flooding	DR1228	\$2,146,484	Unknown
7/14-18/2000	Severe Storms and Flooding	DR1336	\$738,127.27	\$634,807.93
3/5-7/2001	Snowstorm	EM3167	\$ 138,333.08	\$3556.10
8/12-9/12/2004	Severe Storms and Flooding	DR1559	\$430,551.00	\$0.00
6/14-17/2008	Severe Storms and Flooding	DR1778	\$1,114,515.70	\$796,179.40
7/21-8/12/2008	Severe Storms and Flooding	DR1790	\$2,273,481.42	\$252,394.96
4/23-5/9/2011	Severe Storms and Flooding	DR1995	\$384,416.53	\$0.00
8/26-9/2/2011	Hurricane Irene	EM3338	\$ Unavailable	Unknown
8/27-9/2/2011	Tropical Storm Irene	DR4022	\$1,175,911.2	\$125,267.29
5/29/2012	Storm, Tornado & Flooding	DR4066	\$172,847.70	\$31,099.30
12/9-13/2014	Severe Winter Storm	DR4207	\$184,715.05	\$22,745.53
6/9/2015	Severe Storm/Flooding	DR4232	\$893,310.63	\$0.00
10/29-30/2017	Severe Storm/Flooding	DR4356		Unknown

Supplemental Information: Ripton application

Summary of damage at the town shed, sand/salt pile site through 2102

The site washed-out again in 2017, approximately 200 yards of sand lost.

FY 2014 Transportation Planning Study Request Town of Ripton

Peddlers Bridge Road (TH#2) armored water crossings

roads, such as at two Peddlers Bridge Road culverts. The Peddler Bridge Road project did not meet FEMA Hazard Mitigation Program Summary: Armored water crossings were suggested by FEMA staff as a potential solution for the problem of storm water overflow on town

benefit:cost criteria for funding and construction. However, we hope to study the idea and produce a model for regional use.

shed and damages the site. It is proposed that a relief channel (armored water crossing) could accommodate overflow and prevent damage to the road and town shed site. Damage History: This chart shows the damage history at one culvert (B13) where the culvert over-tops, erodes the road, flows through the town

1954	1976				2000		2003			2008						2011	2012			Year
flood	flood	damage	equip.	road, bldg.,	flood –	The Agency of	Hydraulic stu-	damage	and shed	flood - road	away	pile washed	winter sand	damage,	and shed	flood - road	repair		of event	Description
\$5,803.00	\$800.00	(fire station replacement)	\$385,000+	(road and culvert only)	\$4,198.00	The Agency of Natural Resources did not permit the relief culvert; would only permit a bridge	Hydraulic study completed - culvert in good condition. \$51,300 Structures grant awarded			\$8,045.00						\$9,018.42	\$26,001.50			Cost of repairs
3					u	nit the relief	ondition. \$5			2							2		function	Loss of
culvert				repair	road & headwall	culvert; would only pern	1,300 Structures grant aw			road repair						1954	Inlet only 2012	repair	date or last major	Construction
						it a bridge.	arded for a relief culvert.						bottom has holes and rust.	good in 2003. In fall 2011 the	Headwall is gone. Culvert was	5 years	Inlet headwall repair and riprap			Useful life
																2016			necessary	Next point \$

Town of Ripton
Planning Commission
P.O. Box 10
Ripton VT 05766

Alison Joseph Ripton Selectboard Clerk P. O. Box 10 Ripton VT 05766

July 11, 2018

Dear Alison,

The Town of Ripton is in great need of a new sand and salt shed. Ripton has relied for years on an open-air pile in a floodplain on the only town-owned parcel that is remotely suitable for a sand and salt pile. Having seen and, as Ripton residents helped pay for repairs to, the flood damage caused by runoff on the sand and salt pile from increasingly strong and frequent storms, I and the other members of the Ripton Planning Commission voted at our monthly meeting on July 10, 2018 to support the SFY 2019 Environmental Mitigation Grant Application by the Town of Ripton Selectboard to purchase land that is suitable for a shed for sand and salt storage. The reduction in the amount of salt and sand entering the Middlebury River annually will significantly improve water quality in the Middlebury River.

Sincerely yours,

Warren King, Chair Ripton Planning Commission

CONTINUED SUPPORT CONFIRMED AT THE DEC. 125, 2022 PLANNING COMMISSION MEETING.

Hosking, Dick Jul 11, 2018 (2 days ago)

Via Email

I have seen the damage that occurs at the present location and District 5 endorses the moving of the Salt/Sand storage to a location and facility that will prevent impacts to the environment.

Richard Hosking

Vermont Agency of Transportation

District 5 Project Manager

189 Troy Avenue

Colchester, VT 05446

- (P) 802-654-1722
- (F) 802-655-6642



Ripton Transportation Alternatives Grant Application

Alison Joseph Dickinson <ajdickinson@riptonvt.org>
To: "Sanderson, Brian" <Brian.Sanderson@vermont.gov>

Wed, Dec 14, 2022 at 12:55 PM

Hello Brian,

The estimated construction cost for the sand shed project we talked about during your recent visit to Ripton exceeds our available funds. We are applying for a Transportation Alternatives grant to help make up the shortfall. I hope you will support our application.

Thank you,

Alison

Alison Joseph Dickinson
Town Administrator, Clerk, Lister, Municipal Project Manager
Town of Ripton
802-388-2266
PO Box 10
Ripton VT 05766
ajdickinson@riptonvt.org

Emails to this address are public record, with the exception of attorney/client correspondence.

but we were fold it warn't necessary.

- thank you