

Alpine Construction, LLC
Erosion Prevention & Sediment Control Plan

Bennington BRF 1000 (16)
Prepared by

Alpine Construction, LLC
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In association with

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For

Vermont Agency of Transportation

October 27, 2014
Revision January 27, 2015

Project Plan: Soil Erosion and Sediment Control Plan
Project: Bennington BRF 1000 (16)
Prepared by: Daniel McCarty, PE for Alpine Construction, LLC
Date: January 26, 2015
Submitted to: The Vermont Agency of Transportation

1. EPSC Narrative

1.1. Project Description

The Bennington BRF 1000 (16) project contemplates the phased removal and replacement of this bridge over the Roaring Branch. Access to the work area below the bridge will be via access roads which will be located at the southeast and northwest abutments.

Access below the bridge to service construction activity is expected but not in the main river channel. Access will be limited to those areas that are typically above the main river channel; therefore dry. A review of the existing site conditions indicates that this access will not require installation of temporary fills below the OHW level. In the event of high flows, material and equipment will be removed from this area.

In stream work, primarily associated with the installation of rip rap at the base of the piers will be completed consistent with Contract EPSC Plan during the summer of 2015 or 2016 and within ANR Permit's authorized timeframes of July 1st to October 1st and while occupying only ½ of the river at any time.

Staging areas for the work will be located on the north and south approaches to the bridge. With the temporary work trailers and engineer's trailer located at the south end of the bridge.

Finally, an onsite meeting was held with Jaron Borg of ANR to review the proposed work. The minutes from that meeting are included in Appendix 4.

Offsite activity submittals have been provided to and approved by VTRANS for the staging area and access road on the southeast end of the bridge and the access road on the southwest end of the bridge, and are attached in Appendix 5.

1.2. Modifications to Contract Erosion Prevention Sediment Control ("EPSC") Plan

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Modifications to the Contract EPSC are not anticipated, at this time, except as noted below.

A stone access road will be installed on the northwest side of the project as shown on the attached plans in lieu of the northeast side the bridge to reduce impacts to an adjacent business. The northwest access road was reviewed by the COE and an amendment authorizing the change from the original plan was issued and is included as Appendix 6.

1.3. Description of Work

Temporary Bracing System

The work shall proceed initially with the installation of temporary bracing system under the bridge deck to support the cantilevered section of the existing bridge deck to facilitate single lane traffic during Phase 1 construction. This work will be completed using suspended rolling scaffold.

Bridge Rehabilitation – Phase 1 - Downstream (South) Span

The Phase 1 bridge work will be completed sequentially for each bridge span, proceed as follows:

- Install temporary deck bracing system.
- Saw cut existing deck.
- Remove existing pavement.
- For removal of concrete deck in the area between bridge piers, wood decking will be installed between the existing steel beams to capture potential falling concrete debris during the deck removal. Installation of the wood decking will be completed using suspended rolling scaffold. The concrete decking in this area will be saw cut and removed in panels.

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- Deck removal between pier and abutment will be with a hoe ram with some debris falling to the area below and removed.
- Installation of new bridge beams with concrete deck.
- Complete concrete approaches, guide rails and sub-base course of pavement.
- Installation of rip rap at the pier locations and the corresponding extension of the cofferdams into the river channel is expected to take place during the summer 2015 within the permitted time frames.

Bridge Rehabilitation – Phase 2 - Downstream (North) Span

- Remove existing pavement.
- Removal of concrete deck and existing bridge beams.
- Installation of new bridge beams with concrete deck.
- Complete concrete approaches, guide rails and sub-base course of pavement.

In-stream Work

The in stream work for placement of rip rap at existing pier locations and repair of concrete surfaces on existing piers will be completed during the summer of 2015 or 2106 as allowed on the stream permit. The work will proceed with installation of the cofferdam around one pier. Heavy rip rap will be installed and concrete repairs completed. Once all the work on the first pier is completed, the cofferdam and temporary fills will be removed and the work will proceed on the second pier.

Cofferdam designs are expected to consist of bulk sand bags with a poly liner extending around the pier in river channel. The cofferdam design details will be provided at a later time.

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1.4. Waste and Borrow Areas

- Waste Disposal

The waste area for excavated gravels and soils will be at Town of Bennington, 900 Houghton Lane, Bennington, VT 05633

The location is currently approved for storage for gravel, aggregate, concrete and pavement.

- Borrow Area

The borrow material will be from Peckham Materials at 114 Farmers Inn Road, Hoosick Falls, NY 12090

Offsite Activity Exemption Records for these locations are included in Appendix 7.

1.5. Contact Information

1.5.1. Onsite Plan Coordinator

The onsite plan coordinator shall be Mr. Guy Henke. Mr. Henke is the project construction superintendent and has overall responsibility and authority to ensure that the project is constructed according to the plans and specifications and the erosion prevention and sediment control features are installed prior to initiating each phase of work and maintained throughout the course of the project as described above. Mr. Henke mobile job site phone number is (518) 222-0821.

Mr. Henke has overseen the construction many projects with the Vermont Agency of Transportation including the most recent project in Pawlet, VT. In all cases Mr. Henke has been designated as the Onsite Plan Coordinator.

1.5.2. Plan Preparer

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The plan preparer is Mr. Daniel McCarty, PE, a registered professional engineer in the State of Vermont. Mr. McCarty has significant design and construction experience in the development, implementation and maintenance of erosion prevention and sediment control plans. Mr. McCarty was directly involved in the development of plans for the following construction and operating projects:

- Newfane BHF 0106 (4) S
- Tunbridge BRO 1444 (39)
- Stratton STP CULV (12)
- Middlebury BHO 1445 (33)
- Woodstock BHO 1444 (52)
- Pawlet/Rupert RREW

Mr. McCarty's contact information is as follows:

Daniel McCarty, PE
Professional Engineering Services
21 Maya Drive
Saratoga Springs, NY 12831
jmccarty2@nycap.rr.com

2. Erosion Prevention and Sediment Control Plan

2.1. EPSC measures at bridge (Appendix 3)

- Installation of PDF.
- Installation of silt fence on approaches to bridge.
- Installation of stone check dam, if required.

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2.2. EPSC for Stockpiles and Staging Areas

General material will not be stockpiled on site. All material identified for removal will be excavated directly into trucks and transported to the waste disposal area, identified in Section 1.4.

2.3. Chart of Inspections

The EPSC Plan is meant as a guideline for preventing erosion and controlling sediment transport. Any changes to the EPSC shall be noted on the plans, in the weekly inspection report, and reported to the appropriate authority in a timely manner.

The on-site plan coordinator shall maintain daily inspections and rainfall event logs documenting the condition of the erosion prevention and sediment control features.

After critical rainfall events Mr. Henke will inspect the project site and verify the integrity of the temporary EPSC.

In the event any EPSC Features are determined to be deficient, immediate action will be taken to correct that deficiency. Any corrective action will be appropriately noted in the weekly inspection reports.

See Appendix 2 for Sample Weekly Inspection Report

2.4. Onsite Coordinator's Contact Information

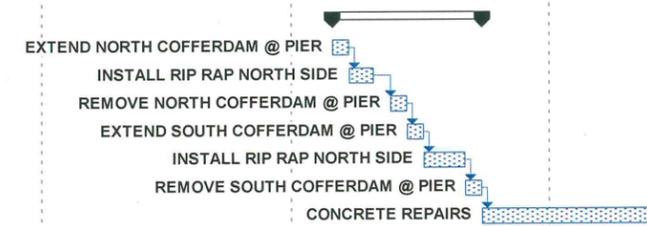
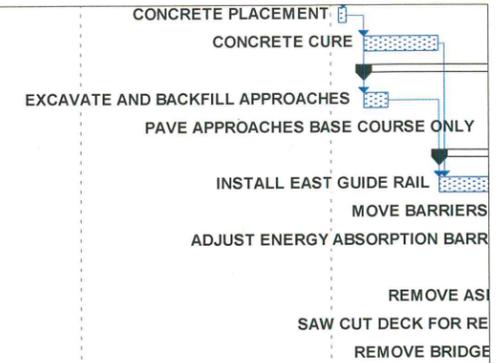
The onsite plan coordinator is Mr. Guy Henke. Mr. Henke is available via cell phone at (518) 222-0821 or email at acllcmilton@hotmail.com.

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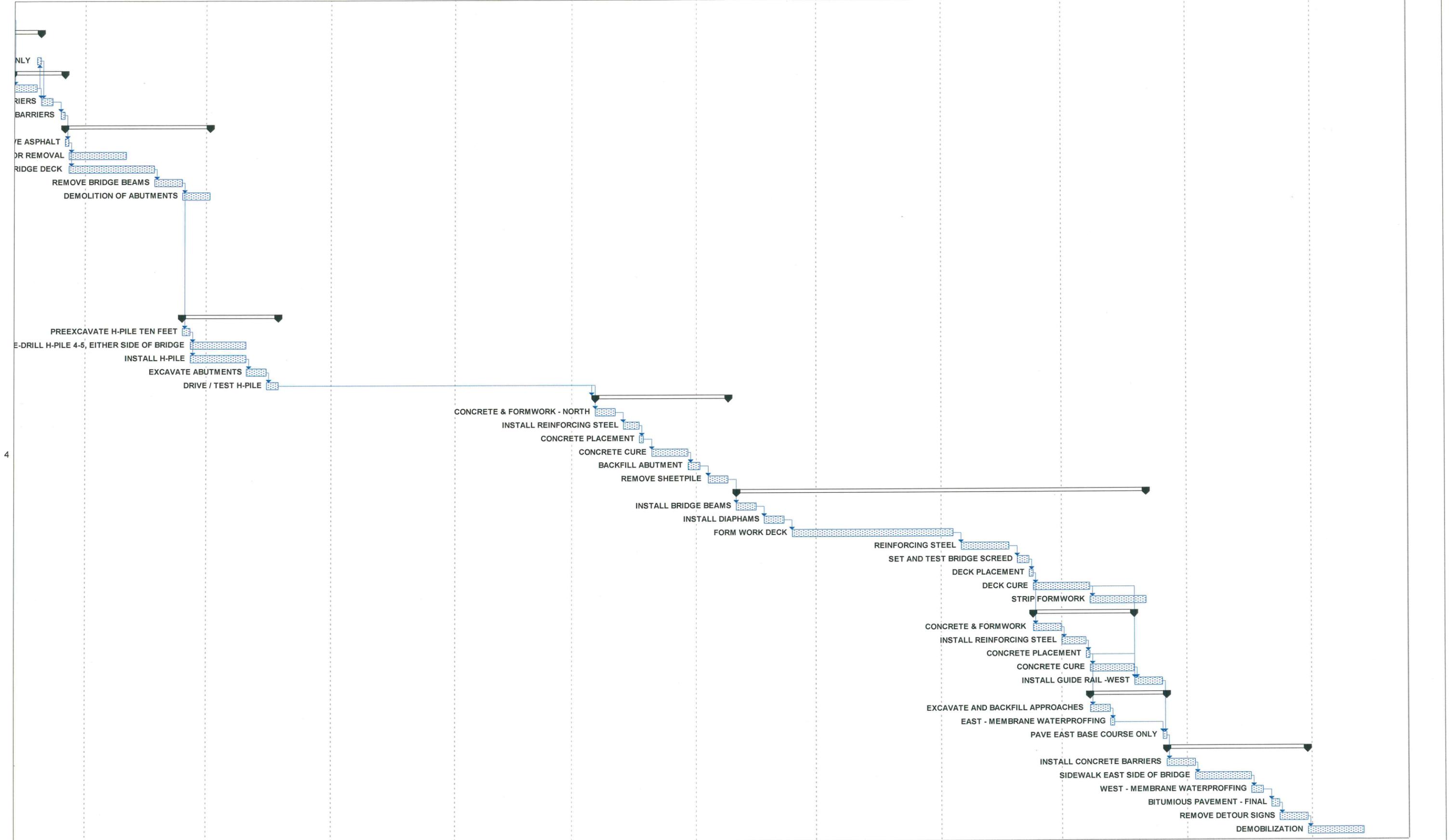
APPENDIX 1

Project Schedule

59	CONCRETE PLACEMENT
60	CONCRETE CURE
61	APPROACHES
62	EXCAVATE AND BACKFILL APPROACHES
63	PAVE APPROACHES BASE COURSE ONLY
64	DETOUR PHASE 2
65	INSTALL EAST GUIDE RAIL
66	MOVE BARRIERS
67	ADJUST ENERGY ABSORPTION BARRIERS
68	BRIDGE DEMOLITION - PHASE 2
69	REMOVE ASPHALT
70	SAW CUT DECK FOR REMOVAL
71	REMOVE BRIDGE DECK
72	REMOVE BRIDGE BEAMS
73	DEMOLITION OF ABUTMENTS
74	INSTALL RIP RAP
75	EXTEND NORTH COFFERDAM @ PIER
76	INSTALL RIP RAP NORTH SIDE
77	REMOVE NORTH COFFERDAM @ PIER
78	EXTEND SOUTH COFFERDAM @ PIER
79	INSTALL RIP RAP NORTH SIDE
80	REMOVE SOUTH COFFERDAM @ PIER
81	CONCRETE REPAIRS
82	INSTALL H-PILE SUPPORT
83	PREEXCAVATE H-PILE TEN FEET
84	PRE-DRILL H-PILE 4-5, EITHER SIDE OF BRID
85	INSTALL H-PILE
86	EXCAVATE ABUTMENTS
87	DRIVE / TEST H-PILE
88	CONCRETE ABUTMENT / PILE CAP
89	CONCRETE & FORMWORK - NORTH
90	INSTALL REINFORCING STEEL
91	CONCRETE PLACEMENT
92	CONCRETE CURE
93	BACKFILL ABUTMENT
94	REMOVE SHEETPILE
95	BRIDGE DECK WEST
96	INSTALL BRIDGE BEAMS
97	INSTALL DIAPHAMS
98	FORM WORK DECK
99	REINFORCING STEEL
100	SET AND TEST BRIDGE SCREED
101	DECK PLACEMENT
102	DECK CURE
103	STRIP FORMWORK
104	CONCRETE APPROACH SLABS - EAST
105	CONCRETE & FORMWORK
106	INSTALL REINFORCING STEEL
107	CONCRETE PLACEMENT
108	CONCRETE CURE
109	INSTALL GUIDE RAIL -WEST
110	APPROACHES
111	EXCAVATE AND BACKFILL APPROACHES
112	EAST - MEMBRANE WATERPROFFING
113	PAVE EAST BASE COURSE ONLY
114	DETOUR PHASE 4
115	INSTALL CONCRETE BARRIERS
116	SIDEWALK EAST SIDE OF BRIDGE
117	WEST - MEMBRANE WATERPROFFING
118	BITUMIOUS PAVEMENT - FINAL
119	REMOVE DETOUR SIGNS
120	DEMOBILIZATION



PRE-DRILL



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APPENDIX 2

Weekly Inspection Report



EPSC Plan Inspection Report (Non-Jurisdictional and Low Risk Projects)

Project Name:			Date:		Time Since Last Storm:
Inspector:			On-Site Coordinator: (signature required)		

Measure Inspected	Y	N	STA/Off	Corrective Action (CA) Required	Date CA Occurred
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Boundary Limits

Site boundary markers are up and visible					
Disturbance is only occurring within marked boundaries					

Disturbance Area Limit

Only acreage listed on <i>Authorization to Discharge</i> is disturbed at one time					
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Stabilized Construction Entrance/Exit

Off site tracking of sediment prevented					
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Sediment Barriers

Measure has been installed properly and is functioning as designed					
Accumulated sediment < 1/2 height of measure					

Diversions

Upland stormwater is diverted around the work area					
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Channelized Runoff

Check structures are in place, extend the width of the channel, and have capacity to retain sediment in the next storm event					
Channels are stable with no erosion					

Exposed Soils Stabilization

Seed and mulch, and/or matting placed in accordance w/ permit requirements and/or Specifications					
Soil is seeded and mulched or covered in erosion matting within 48 hours of final grade					

Winter Stabilization

After Sept. 15' all disturbed areas are seeded & mulched to 3" deep or covered w/ matting					
For ongoing construction, exposed soil is mulched prior to forecasted events					

Dewatering Treatment

Measure is preventing a discharge of turbid water from leaving the site					
Accumulated sediment is removed to allow sufficient treatment					

* Additional Measures and Discharges shall be reported on the back side of this form.



EPSC Plan Inspection Report (Non-Jurisdictional and Low Risk Projects)

Measure Inspected	Y	N	STA/Off	Corrective Action	Date Taken
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Additional Measures					

Discharges Noted

* If there is a discharge of visibly discolored stormwater from the construction site to waters of the state, the On-Site Plan Coordinator shall inform the Resident Engineer and take corrective action and report the discharge in accordance with Section 6.1 of Permit 3-9020.

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APPENDIX 3

Drawing Showing Sediment Control Measures

EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF BRIDGE #57 ON BENMONT AVENUE SPANNING 268 FEET OVER THE BODY OF WATER KNOWN AS ROARING BRANCH IN THE TOWN OF BENNINGTON. THE PROJECT BEGINS AT A POINT APPROXIMATELY 0.08 MILES NORTH OF HUNT STREET AND EXTENDS NORTHERLY FOR 0.06 MILES. WORK WILL INVOLVE REMOVAL OF EXISTING SUPERSTRUCTURE, PARTIAL REMOVAL OF EXISTING ABUTMENTS, CONSTRUCTION OF NEW ABUTMENTS AND CONSTRUCTION OF THE BRIDGE SUPERSTRUCTURE ON THE EXISTING ALIGNMENT. ALSO INCLUDED WILL BE RELATED CHANNEL, PIER REPAIR AND APPROACH WORK.

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA AS SHOWN ON THE ATTACHED EPSC PLAN. THE AREA OF DISTURBANCE DOES NOT INCLUDE WASTE, BORROW AND STAGING AREAS. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE LOCATION OF THE WASTE, BORROW AND STAGING AREAS, AS WELL AS THE MATERIAL STOCKPILE, REFUELING AND MAINTENANCE AREAS. A MAP SHALL BE ATTACHED IF NECESSARY.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 28,970 SQUARE FEET (0.67 ACRES).

IT IS ANTICIPATED THAT THE PROJECT WILL LAST TWO CONSTRUCTION SEASONS.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY, EXISTING ROADS, UTILITIES

THE TOPOGRAPHY SURROUNDING THE PROJECT SITE IS MOSTLY FLAT AND CONSISTS MOSTLY OF LIGHTLY WOODED AREAS AND COMMERCIAL PROPERTIES WITH PAVED SURFACES AND WELL ESTABLISHED LAWNS. PORTIONS NEAR THE WATER BODY INCLUDE LIGHTLY WOODED AREAS WITH SHALLOW SLOPES. THE GENERAL TOPOGRAPHY OF THE AREA SLOPES FROM THE EAST TO THE WEST. ALL ROAD SURFACES IN THE PROJECT AREA ARE BITUMINOUS CONCRETE PAVEMENT. COMMERCIAL DEVELOPED PROPERTIES BORDER THE BRIDGE IN ALL 4 APPROACH CORNERS.

THERE ARE OVERHEAD ELECTRICAL LINES ALONG THE SOUTH APPROACH AND OVERHEAD ELECTRICAL & CABLE LINES AT THE NORTH APPROACH. BURIED FIBER OPTIC LINES EXIST THROUGHOUT THE PROJECT AND ARE SUPPORTED BY THE EXISTING BRIDGE. THERE IS BURIED SEWER WEST OF THE EXISTING BRIDGE THAT RUNS BENEATH ROARING BRANCH NEAR THE MOUTH OF THE WALLOOMSAC RIVER. THERE IS ALSO A WATER LINE ON THE SOUTH WEST SIDE OF THE PROJECT THAT SERVICES A COMMERCIAL PROPERTY.

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

THE BRIDGE SPANS THE BODY OF WATER KNOWN AS ROARING BRANCH. THE STREAM IS CLASSIFIED AS SINUOUS AND IN THE REACH INFLUENCED BY THE BRIDGE IS CHANNELIZED AND STRAIGHT, BOUNDARIES ARE ALLUVIAL, AND STREAM BANKS ARE HIGH WITH LITTLE TO NO FLOOD PLAIN. THE STREAM BED CONSISTS OF COARSE SAND, GRAVEL AND COBBLE. THE TRIBUTARY AREA AT THE BRIDGE IS 41.4 SQUARE MILES. CONSTRUCTION OF THE NEW BRIDGE WILL REQUIRE SOME TEMPORARY AND PERMANENT IMPACTS TO ROARING BRANCH. THE PROJECT IS ALSO ADJACENT TO THE WALLOOMSAC RIVER. THE WALLOOMSAC RIVER IS APPROXIMATELY 42 FEET FROM THE NEAREST LOCATION WHERE THE PROJECT IS ANTICIPATED TO DISTURB EXISTING SOILS.

THE FOLLOWING DESCRIPTIONS ARE FOR THE EXISTING SITE PLANS: SURFACE DRAINAGE FROM BENMONT AVENUE FLOWS DOWN EXISTING VEGETATED AND WOODED SIDESLOPES AND INTO ROARING BRANCH.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF WELL ESTABLISHED LAWNS AND LIGHTLY WOODED AREAS. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS REQUIRED FOR REPLACEMENT OF THE EXISTING BRIDGE AND TEMPORARY ACCESS TO THE EXISTING PIERS. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES OR REPLACED WITH STONE FILL.

1.2.4 SOILS

SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE FOR THE COUNTY OF BENNINGTON, VERMONT. SOILS ON THE PROJECT SITE ARE:

ON THE SOUTH SIDE OF ROARING BRANCH THE SOIL TYPE IS UDIPSAMMENTS, 0 TO 3 PERCENT SLOPE, "K FACTOR" = 0.10. THE EROSION HAZARD IS "LOW" DUE TO ITS K FACTOR.

ON THE NORTH SIDE OF ROARING BRANCH THE SOIL TYPE IS POOTATUCK, FINE SANDY LOAM, GENTLY SLOPING, "K FACTOR" = 0.20. THE EROSION HAZARD IS "SLIGHT" DUE TO ITS K FACTOR.

1.2.4 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHAEOLOGICAL AREAS: NO
PRIME AGRICULTURE LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: ROARING BRANCH AND WALLOOMSAC RIVER
WETLANDS: NO

1.3 RISK EVALUATION

THE PROJECT DOES NOT FALL UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT TO AVOID SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES.

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTOR'S PROGRESS SCHEDULE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHOULD BE INSTALLED PRIOR TO ANY UPSLOPE WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

DIVERSION OF UPLAND RUNOFF NOT ANTICIPATED.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

THE USE OF STONE CHECK DAMS IS NOT ANTICIPATED FOR THIS PROJECT.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS.

SEED AND MULCH WILL BE USED AS PERMANENT CONTROLS TO STABILIZE EXPOSED SOIL. RIPRAP AND STONE FILL WILL BE USED TO STABILIZE THE SLOPES AND STREAMBED AROUND PIERS AND ABUTMENTS.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

SHOULD EARTH DISTURBANCE NEED TO BE PERFORMED DURING THE WINTER, A WINTER EROSION AND SEDIMENT CONTROL PLAN DESCRIBING ALTERNATIVE STABILIZATION METHODS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO AUGUST 15 FOR APPROVAL.

1.4.10 STABILIZE SOIL AT FINAL GRADE

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

SEED, MULCH, FERTILIZER, AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

TREATMENT OF DEWATERING COFFERDAM IS ANTICIPATED. A LOCATION FOR THE TREATMENT HAS BEEN PROPOSED AND IS SHOWN ON THE PLANS. THE SPECIFIC MEANS FOR TREATMENT OF DISCHARGE SHALL BE PROVIDED BY THE CONTRACTOR. PAYMENT FOR TREATMENT OF DISCHARGE WILL BE PAID FOR UNDER CONTRACT ITEM 653.45.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

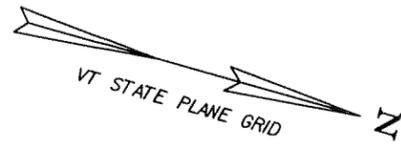
1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTIONS 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PROJECT NAME: BENNINGTON
PROJECT NUMBER: BRF 1000(16)

FILE NAME: z88J087bdr_epscn.dgn
PROJECT LEADER: R. HEBERT
DESIGNED BY: S. AMOROSO
EPSC NARRATIVE

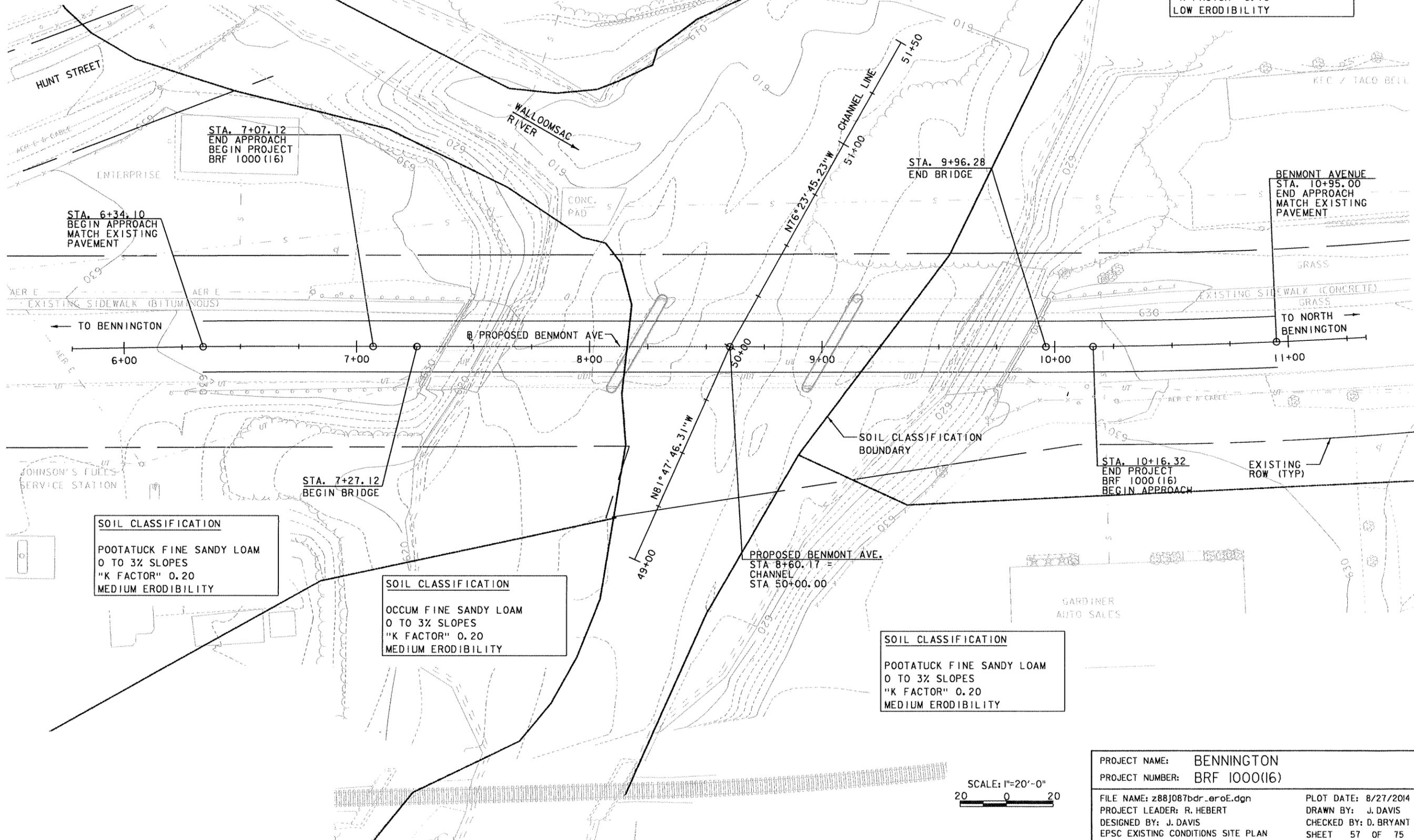
PLOT DATE: 8/7/2014
DRAWN BY: S. AMOROSO
CHECKED BY: D. BRYANT
SHEET 56 OF 75



SOIL CLASSIFICATION
 STOCKBRIDGE LOAM
 8 TO 15% SLOPES
 "K FACTOR" 0.28
 MEDIUM ERODIBILITY

SOIL CLASSIFICATION
 UDIPSAMMENTS AND UDORTHENTS
 GENTLY SLOPING
 "K FACTOR" 0.10
 LOW ERODIBILITY

ROARING
 BRANCH



HUNT STREET

STA. 7+07.12
 END APPROACH
 BEGIN PROJECT
 BRF 1000 (16)

STA. 6+34.10
 BEGIN APPROACH
 MATCH EXISTING
 PAVEMENT

EXISTING SIDEWALK (BITUMINOUS)

TO BENNINGTON

6+00

7+00

8+00

9+00

10+00

11+00

PROPOSED BENMONT AVE

STA. 7+27.12
 BEGIN BRIDGE

SOIL CLASSIFICATION
 POOTATUCK FINE SANDY LOAM
 0 TO 3% SLOPES
 "K FACTOR" 0.20
 MEDIUM ERODIBILITY

SOIL CLASSIFICATION
 OCCUM FINE SANDY LOAM
 0 TO 3% SLOPES
 "K FACTOR" 0.20
 MEDIUM ERODIBILITY

PROPOSED BENMONT AVE.
 STA. 8+60.17 =
 CHANNEL
 STA. 50+00.00

SOIL CLASSIFICATION
 POOTATUCK FINE SANDY LOAM
 0 TO 3% SLOPES
 "K FACTOR" 0.20
 MEDIUM ERODIBILITY

STA. 9+96.28
 END BRIDGE

BENMONT AVENUE
 STA. 10+95.00
 END APPROACH
 MATCH EXISTING
 PAVEMENT

GRASS

EXISTING SIDEWALK (CONCRETE)

GRASS

TO NORTH
 BENNINGTON

STA. 10+16.32
 END PROJECT
 BRF 1000 (16)
 BEGIN APPROACH

EXISTING
 ROW (TYP)

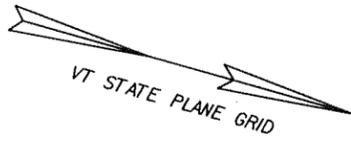
GARDINER
 AUTO SALES

SCALE: 1"=20'-0"
 20 0 20

PROJECT NAME: BENNINGTON
 PROJECT NUMBER: BRF 1000(16)

FILE NAME: z88J087bdr_eroE.dgn
 PROJECT LEADER: R. HEBERT
 DESIGNED BY: J. DAVIS
 EPSC EXISTING CONDITIONS SITE PLAN

PLOT DATE: 8/27/2014
 DRAWN BY: J. DAVIS
 CHECKED BY: D. BRYANT
 SHEET 57 OF 75



Note: North and South Cofferdam PE Designs will be submitted at a later time.

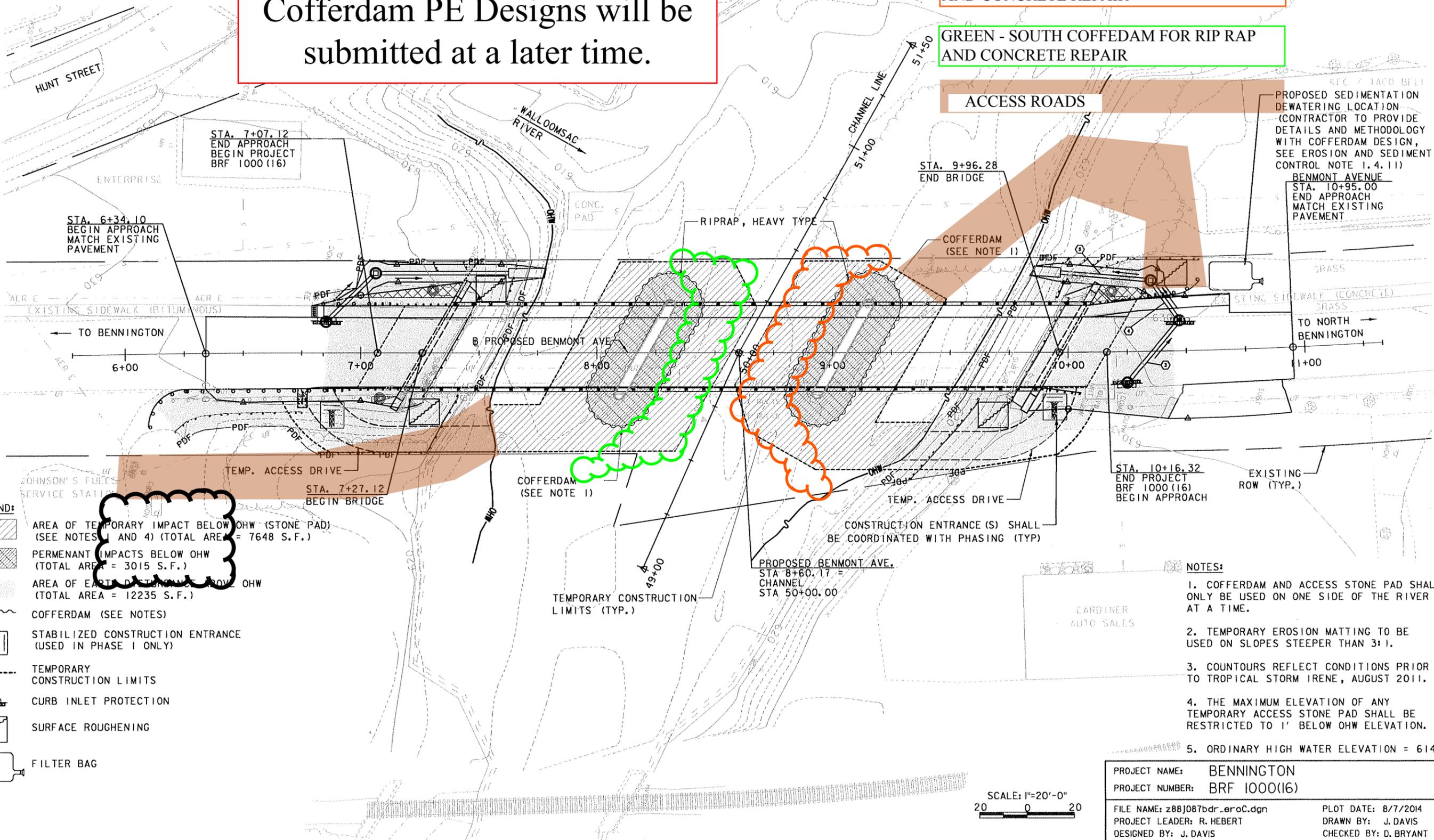
BLACK BOLD - CONTRACTORS / ENGINEERS TRAILER LOCATION

ORANGE - NORTH COFFEDAM FOR RIP RAP AND CONCRETE REPAIR

GREEN - SOUTH COFFEDAM FOR RIP RAP AND CONCRETE REPAIR

ACCESS ROADS

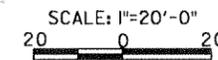
PROPOSED SEDIMENTATION DEWATERING LOCATION (CONTRACTOR TO PROVIDE DETAILS AND METHODOLOGY WITH COFFERDAM DESIGN, SEE EROSION AND SEDIMENT CONTROL NOTE 1.4.11)
BENMONT AVENUE
STA. 10+95.00
END APPROACH
MATCH EXISTING PAVEMENT



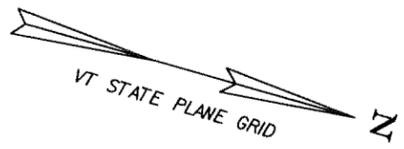
LEGEND:

- AREA OF TEMPORARY IMPACT BELOW OHW (STONE PAD) (SEE NOTES 1 AND 4) (TOTAL AREA = 7648 S.F.)
- PERMANENT IMPACTS BELOW OHW (TOTAL AREA = 3015 S.F.)
- AREA OF EARTH DISTURBANCE ABOVE OHW (TOTAL AREA = 12235 S.F.)
- COFFERDAM (SEE NOTES)
- STABILIZED CONSTRUCTION ENTRANCE (USED IN PHASE 1 ONLY)
- TEMPORARY CONSTRUCTION LIMITS
- CURB INLET PROTECTION
- SURFACE ROUGHENING
- FILTER BAG

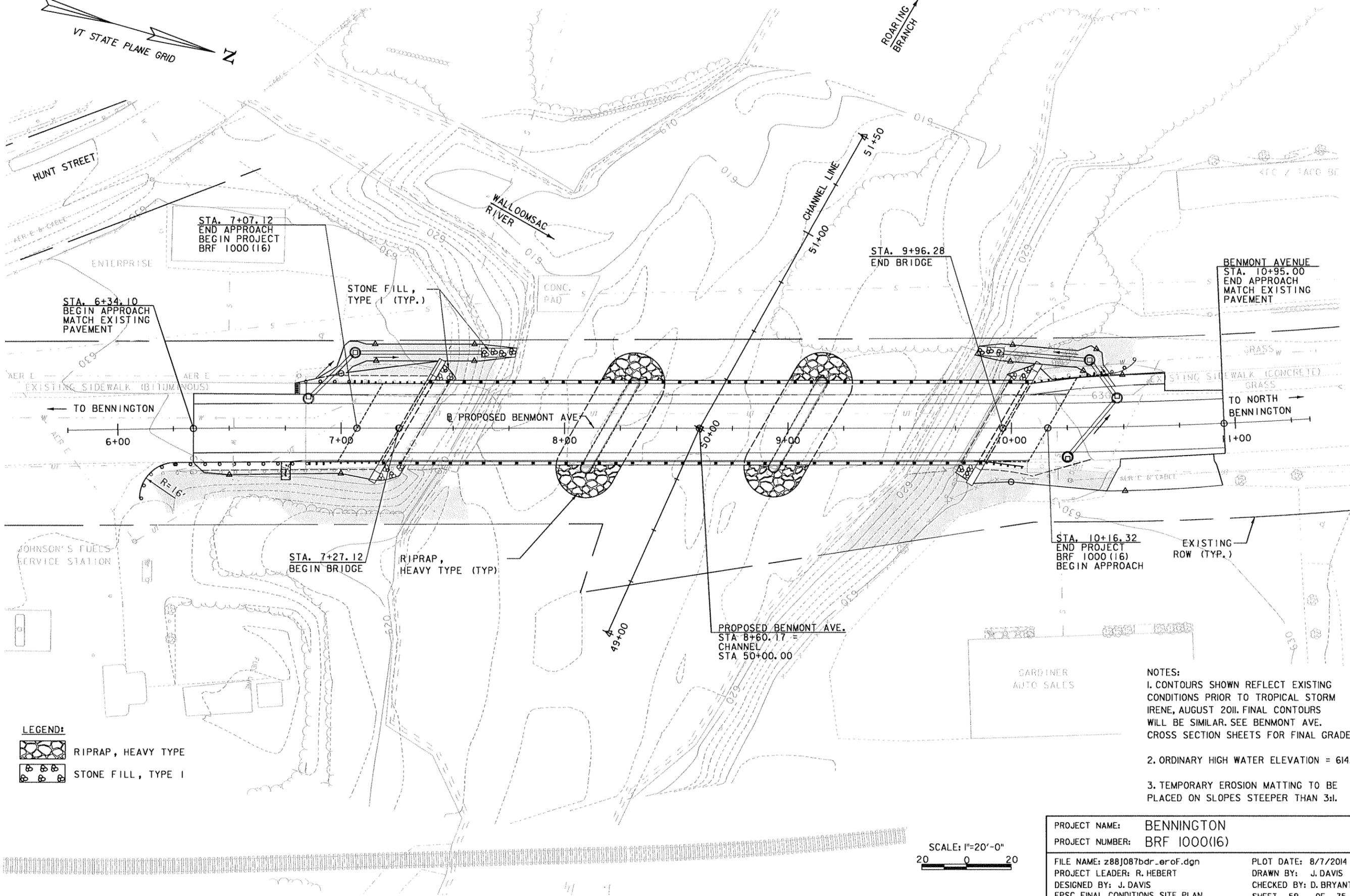
- NOTES:**
1. COFFERDAM AND ACCESS STONE PAD SHALL ONLY BE USED ON ONE SIDE OF THE RIVER AT A TIME.
 2. TEMPORARY EROSION MATTING TO BE USED ON SLOPES STEEPER THAN 3:1.
 3. COUNTOURS REFLECT CONDITIONS PRIOR TO TROPICAL STORM IRENE, AUGUST 2011.
 4. THE MAXIMUM ELEVATION OF ANY TEMPORARY ACCESS STONE PAD SHALL BE RESTRICTED TO 1' BELOW OHW ELEVATION.
 5. ORDINARY HIGH WATER ELEVATION = 614.7.



PROJECT NAME:	BENNINGTON	PLOT DATE:	8/7/2014
PROJECT NUMBER:	BRF 1000(16)	DRAWN BY:	J. DAVIS
FILE NAME:	z88j087bdr_eroC.dgn	CHECKED BY:	D. BRYANT
DESIGNED BY:	J. DAVIS	SHEET	58 OF 75
EPSC SITE PLAN			



ROARING
BRANCH



STA. 7+07.12
END APPROACH
BEGIN PROJECT
BRF 1000 (16)

STA. 6+34.10
BEGIN APPROACH
MATCH EXISTING
PAVEMENT

STONE FILL,
TYPE 1 (TYP.)

CONC.
PAD

STA. 9+96.28
END BRIDGE

BENMONT AVENUE
STA. 10+95.00
END APPROACH
MATCH EXISTING
PAVEMENT

TO BENNINGTON
6+00

PROPOSED BENMONT AVE.

TO NORTH
BENNINGTON
11+00

STA. 7+27.12
BEGIN BRIDGE

RIPRAP,
HEAVY TYPE (TYP.)

STA. 10+16.32
END PROJECT
BRF 1000 (16)
BEGIN APPROACH

EXISTING
ROW (TYP.)

PROPOSED BENMONT AVE.
STA 8+60.17 =
CHANNEL
STA 50+00.00

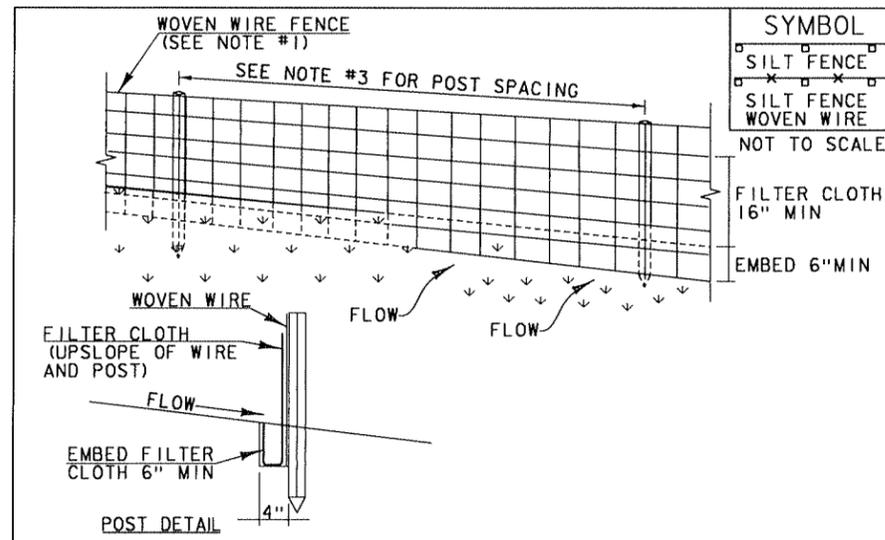
GARDINER
AUTO SALES

- NOTES:
1. CONTOURS SHOWN REFLECT EXISTING CONDITIONS PRIOR TO TROPICAL STORM IRENE, AUGUST 2011. FINAL CONTOURS WILL BE SIMILAR. SEE BENMONT AVE. CROSS SECTION SHEETS FOR FINAL GRADES.
 2. ORDINARY HIGH WATER ELEVATION = 614.7.
 3. TEMPORARY EROSION MATTING TO BE PLACED ON SLOPES STEEPER THAN 3:1.

- LEGEND:
- RIPRAP, HEAVY TYPE
 - STONE FILL, TYPE 1

SCALE: 1"=20'-0"
20 0 20

PROJECT NAME:	BENNINGTON	PLOT DATE:	8/7/2014
PROJECT NUMBER:	BRF 1000(16)	DRAWN BY:	J. DAVIS
FILE NAME:	z88j087bdr_erof.dgn	CHECKED BY:	D. BRYANT
PROJECT LEADER:	R. HEBERT	SHEET	59 OF 75
DESIGNED BY:	J. DAVIS		
EPSC FINAL CONDITIONS SITE PLAN			



SYMBOL	
[Symbol]	SILT FENCE
[Symbol]	SILT FENCE WOVEN WIRE

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

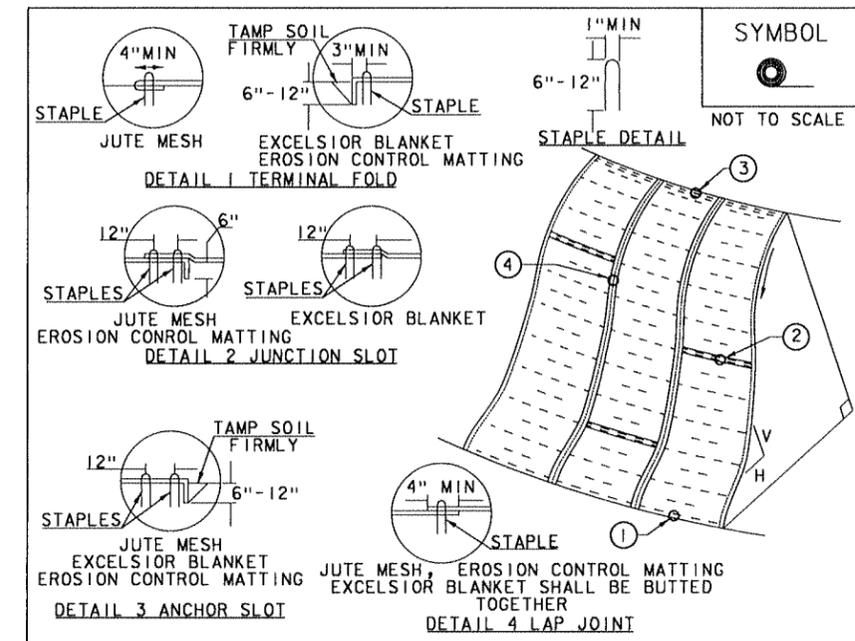
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF



SYMBOL	
[Symbol]	NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

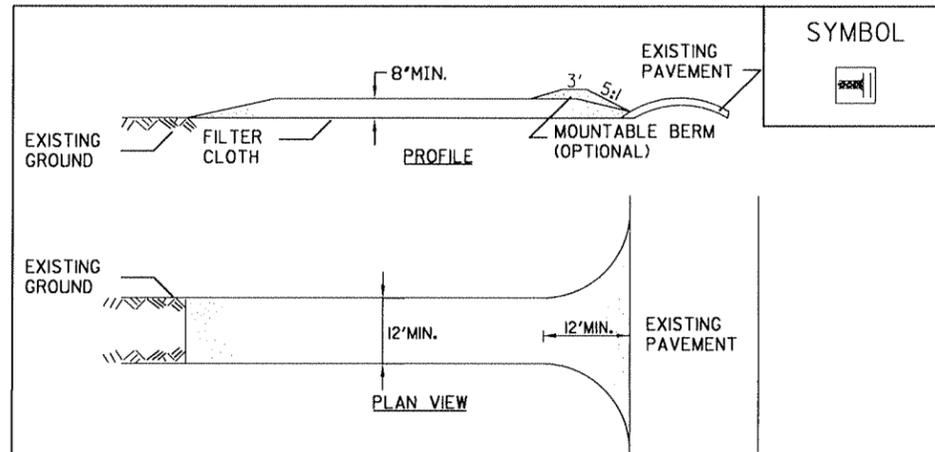
ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

PROJECT NAME:	BENNINGTON	PLOT DATE:	8/7/2014
PROJECT NUMBER:	BRF 1000(16)	DRAWN BY:	D. BRYANT
FILE NAME:	z88J087bdr_erodet.dgn	CHECKED BY:	D. BURHANS
PROJECT LEADER:	R. HEBERT	SHEET	60 OF 75
DESIGNED BY:	D. BRYANT		
EPSC DETAIL SHEET 1 OF 4			



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH APPLIES).
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**STABILIZED
CONSTRUCTION
ENTRANCE**

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
653.35 VEHICLE TRACKING PAD

REVISIONS	
FEBRUARY 9, 2007	WHF
MARCH 8, 2007	JMF

VAOT RURAL AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
42.5%	34	68	CREEPING RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

SOIL AMENDMENT GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	FOLLOW	PELLETIZED	FOLLOW
500 LBS/AC	MANUFACTURER	2 TONS/AC	MANUFACTURER

CONSTRUCTION GUIDANCE

1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

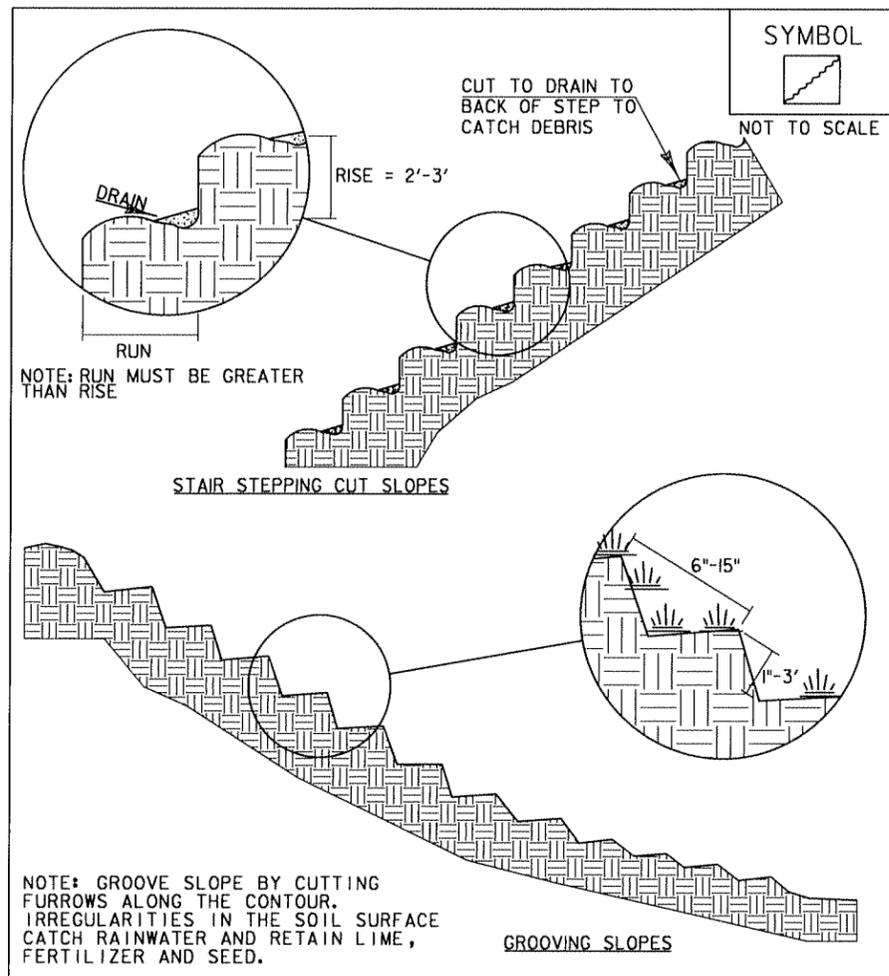
ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

REVISIONS	
JUNE 23, 2009	WHF
JANUARY 15, 2010	WHF
FEBRUARY 16, 2011	WHF

PROJECT NAME: BENNINGTON
PROJECT NUMBER: BRF 1000(I6)

FILE NAME: z88j087bdr_erodet.dgn PLOT DATE: 8/7/2014
PROJECT LEADER: R. HEBERT DRAWN BY: D. BRYANT
DESIGNED BY: D. BRYANT CHECKED BY: D. BURHANS
EPSC DETAIL SHEET 2 OF 4 SHEET 61 OF 75



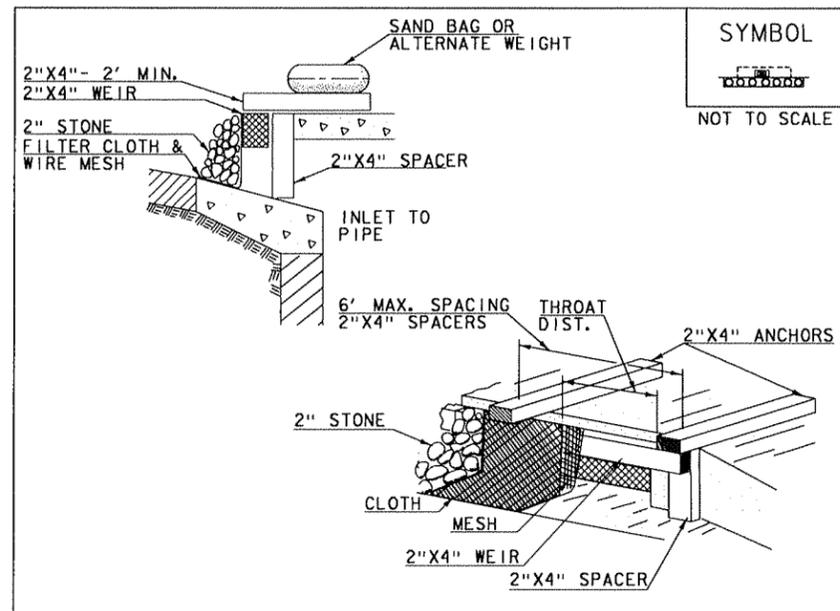
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
 ORIGINALLY DEVELOPED BY USDA-NRCS
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SURFACE ROUGHENING

NOTES:
 REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR
 EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM
 THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL
 GUIDANCE.

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE
 CONTRACT



- CONSTRUCTION SPECIFICATIONS**
1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85.
 2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
 3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30" MINIMUM WIDTH WITH A LENGTH 4' LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2"x 4" WEIR.
 4. THE WEIR SHALL BE SECURELY NAILED TO 2"x 4" SPACERS 9" LONG SPACED NO MORE THAN 6' APART.
 5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2"x 4" ANCHORS 2' LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
 6. MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
 ORIGINALLY DEVELOPED BY USDA-NRCS
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

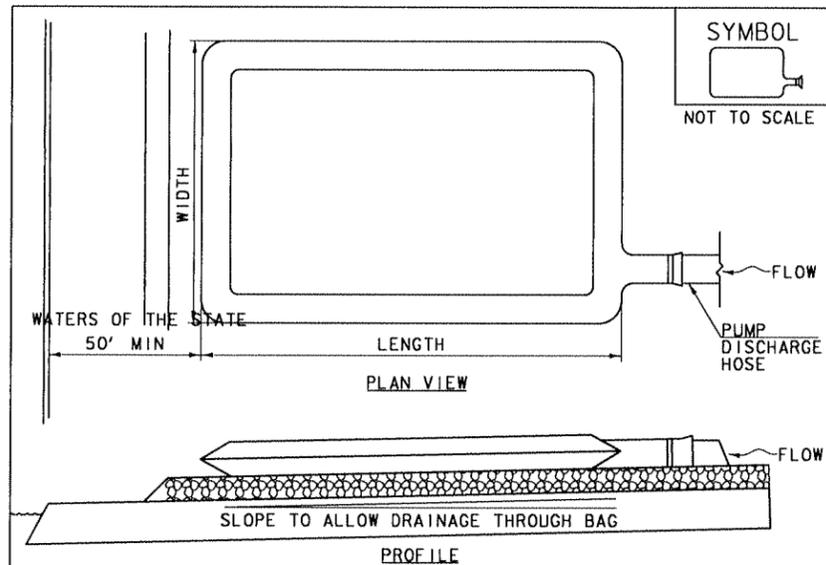
CURB DROP INLET PROTECTION

NOTES:
 REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR
 EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM
 THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL
 GUIDANCE.

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH
 SECTION 653 FOR INLET PROTECTION DEVICE, TYPE 1 (PAY
 ITEM 653.40).

PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	BRF 1000(16)
FILE NAME:	z88j087bdr_erodet.dgn
PROJECT LEADER:	R. HEBERT
DESIGNED BY:	D. BRYANT
EPSC DETAIL SHEET	3 OF 4
PLOT DATE:	8/7/2014
DRAWN BY:	D. BRYANT
CHECKED BY:	D. BURHANS
SHEET	62 OF 75



CONSTRUCTION SPECIFICATIONS

1. THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
2. FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
3. FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAYBALES TO INCREASE FILTRATION EFFICIENCY.
4. FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
6. A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
7. FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR FILTER BAG (PAY ITEM 653.45) AND AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: BENNINGTON
PROJECT NUMBER: BRF 1000(I6)

FILE NAME: z88J087bdr_erodet.dgn PLOT DATE: 8/7/2014
PROJECT LEADER: R. HEBERT DRAWN BY: D. BRYANT
DESIGNED BY: D. BRYANT CHECKED BY: D. BURHANS
EPSC DETAIL SHEET 4 OF 4 SHEET 63 OF 75

Project Plan: Soil Erosion and Sediment Control Plan
Project: Bennington BRF 1000 (16)
Prepared by: Daniel McCarty, PE for Alpine Construction, LLC
Date: January 26, 2015
Submitted to: The Vermont Agency of Transportation

APPENDIX 4

ANR Meeting Minutes

Alpine Construction, LLC

Meeting Minutes

Project: Bennington BRF 1000 (16)
Date & Time: November 7, 2014, 11:00 -11:30 am
Meeting Location: Bridge Project Site
Attendees: John Conley – Alpine Construction, LLC
William Patenaude – Alpine Construction, LLC
Jaron Borg – ANR
Sara Andrew – EIV
Paul Kuehn – URS Corp
Purpose of Meeting: Review proposed river work operations and EPSC plan with ANR representative.

Summary of Items Reviewed:

1. Work from pier to abutment on either side of the bridge is acceptable out of season as long as the area is isolated from flowing water. Ok per Jason Borg
2. Installation of material between the pier and abutment is acceptable as long as all the material is removed at the end of the project. Ok per Jason Borg
3. Installation of access roads to the area under the bridge from the northwest and southeast sides of the bridge is acceptable as long as appropriate agreements are in place. The Road material should be stone fill. The following was also noted: ① the proposed northwest access road is a change from the contract plans which show an access road on the northeast side of the bridge; ② the proposed access road on the southeast side of the bridge extends further to the east than shown on the contract plans. Ok per Jason Borg
4. Demolition of the bridge deck concrete between the pier and abutment can be hoe ram with material falling to the area below as long as the material is removed and the area is isolated from flowing water. Ok per Jason Borg
5. Demolition of the bridge deck between pairs should be saw cut and panelized with plywood decking between beams to capture potential falling debris. Ok per Jason Borg
6. Placement of the concrete pump (including concrete trucks) in the area between the pier and abutment for concrete deck placement is acceptable. Ok per Jason Borg
7. Placement of crane in the area between the pier and abutment for steel beam removal and installation is acceptable. Ok per Jason Borg
8. ANR representative – Jason Borg noted the river/creek was flashy and equipment should not be left for extended periods or where the weather forecast suggests heavy rains.
9. Installation of rip rap between piers should be within permitted timeframes.
10. The engineer's office trailer and contractor's office trailer will be located in the grass area adjacent to the gas station on the southeast side of the bridge. The property owner has requested that trailers not be located on the pavement.

APPENDIX 5

Offsite Activity Submittals - Approved

OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Bennington BRF 1000(16) **Proposed Area Name:** Apollo Industries

Waste (NAD83, meters) Borrow Staging Other (Access Rd) X: 442683.43 Y: 43876.61

Natural Resource Review Reviewer: Glenn Gingras, Vtrans Biologist

Accepted Rejected Date 1-7-15 Signature [Signature]

Comments _____

Cultural Resource Review Reviewer: Jen Russell, Vtrans Archaeology Officer

Accepted Rejected Date 1-7-15 Signature [Signature]

Comments Area was reviewed as part of the original project and found to exhibit heavy disturbance. Not arch sensitive.

The Site has been REJECTED for use at this time

The Contractor is advised to:

- Seek another site for use
- Hire an Environmental firm to _____
- Hire an Archeological consultant to clear Section 106 issues

This site has been ACCEPTED (Site does not warrant any special conditions)

This site has been ACCEPTED with the following conditions:

- Maintain a minimum buffer of _____ feet from _____
- Orange fencing must be installed to protect nearby resources _____
- Materials must be placed on geotextile fabric
- Use of this site must comply with applicable local/state/federal permitting regulations including but not limited to:
Any fill placement below O&W will need to be included in an agreement with COE. Please cc
- Please contact the Construction Environmental Engineer prior to use of this site.
- Other: Tree clearing should be kept to a minimum. Glenn Gingras or correspond

The VT ANR Low Risk Site Handbook for EPSC measures should be used as a minimum measure for best management practices at waste, borrow and staging sites.

A copy of this Review has been faxed to the Resident Engineer/District Tech Yes No

A copy of this Review has been delivered to the Construction Env Eng (CEE) Yes No

This clearance is for the Natural and Cultural Resources Only.

Bennington BRF 1000(16) Access & Staging Apollo Industries

1:736



0000.0000.0000.0100.014
Miles

proposed access road and trailer staging

Source: Esri, DigitalGlobe, GeoEye, Earthstar, USDA, USGS, AEX, Getmapping, Aerotech, IGN, User Community

Map created by J. Russell
PDD-Environmental Section
on 1-7-15

OFF-SITE ACTIVITY SUBMITTAL

VTTrans Engineering & Construction Division

- This form is to be completed in its entirety by the Contractor/District Tech when proposing any waste, borrow, or staging area or any work outside the defined Contract construction limits.
- Submit to Karen Spooner: karen.spooner@state.vt.us, Phone: (802)828-2169, Fax: (802)828-2334, VTTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (c) of the VTTrans Standard Specifications For Construction) for review once the application is administratively complete.

received
1.5.15

SUBMITTAL INFORMATION

Project Name/District: BENNINGTON BRIF 1000(16) Contractor/District Tech: ALPINE CONSTRUCTION L.L.C.
 Contact: William P. PATEMAN Phone: 515-695-6153 Fax: 515-695-6624 E-mail: WPATEMAN@ALPINECONSTRUCTION.COM
 Resident Engineer: RON LEMARE Phone: 802-793-8163 Fax: RON.LEMARE@STATE.VT.US

PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

Waste Borrow ~~Staging~~ ~~Staging~~ Other (ex. dewatering location): ACCESS ROAD
 Material: Type (asphalt, concrete, earthen, etc.) ROCK Quantity (yds³) 450 yds
 Total Area of Land Disturbance (sq ft) 1800 SF
 Additional Info: Contractor + Engineers trailers

LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

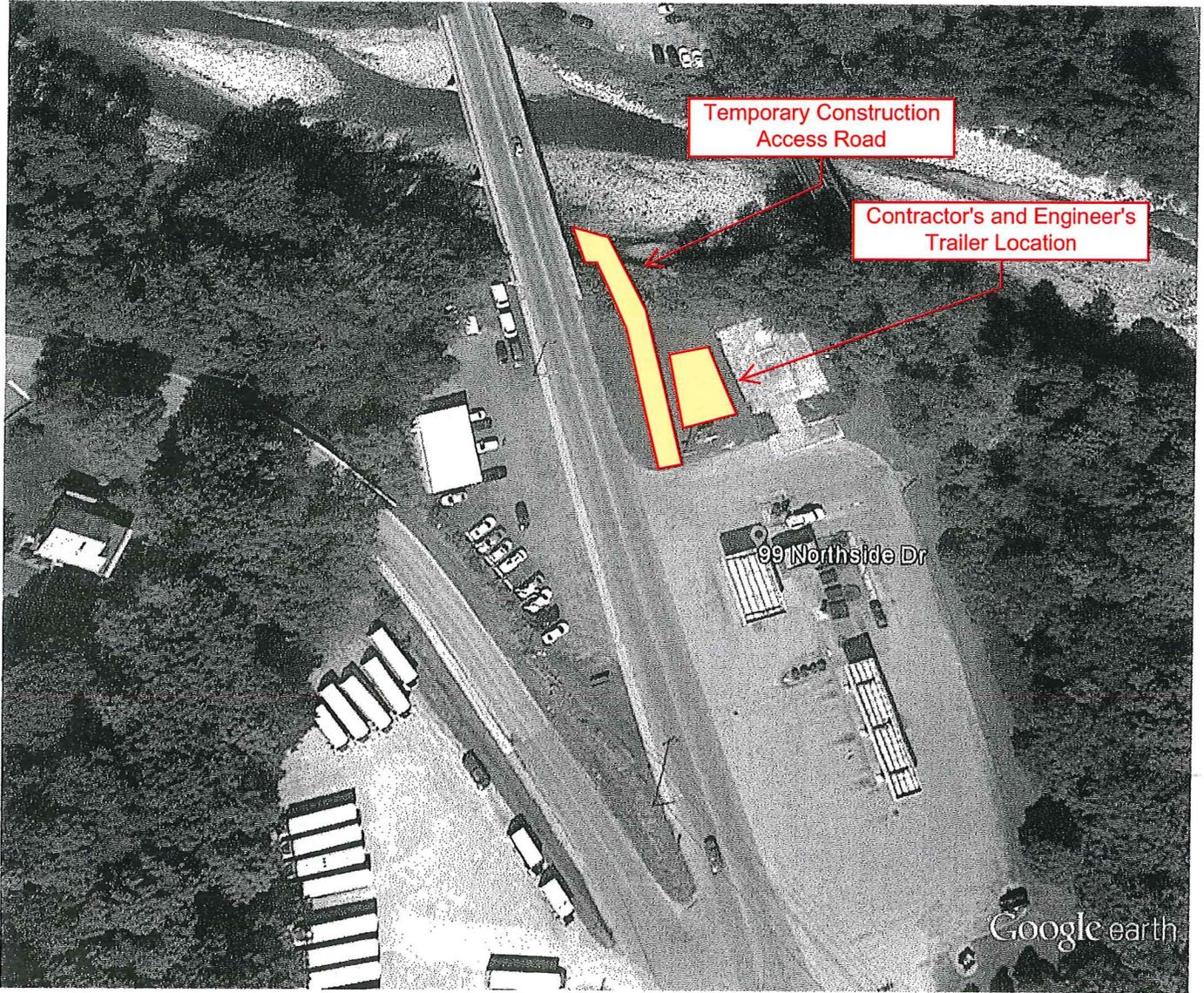
Name: APOLLO INDUSTRIES INC. Address: 99 NORTHSIDE DRIVE, BENNINGTON VT Phone: 802-345-5247
 Print Name
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: GAS STATION
 Are there other users of this site? Yes No
 Known past uses: _____
 Location Map (must be USGS Geological Survey Map (7.5'))
 Sketch of Area: North arrow Approx scale Recognizable features
 Permit Info:
 Act 250 Permit Exists? Yes No If Yes, # _____ Copy Enclosed? _____
 List of Other Existing Permits: _____

*sketch
Rec'd 1/5/15.*

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, WALTER FREED, warrant that the information in the above permit application is
 Landowner/Facility Manager Signature Walter Freed
 to the use of the proposed area by ALPINE CONSTRUCTION L.L.C. as shown on the attached sketch. If acting as the agent of
 Name of Contractor
 the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
 Date: 11/24/2014

This clearance is for the Natural and Cultural Resources Only.

x = 442683.43 y = 43876.61



Temporary Construction
Access Road

Contractor's and Engineer's
Trailer Location

99 Northside Dr

Google earth

Google earth

feet
meters



200

90



received
1.5.15

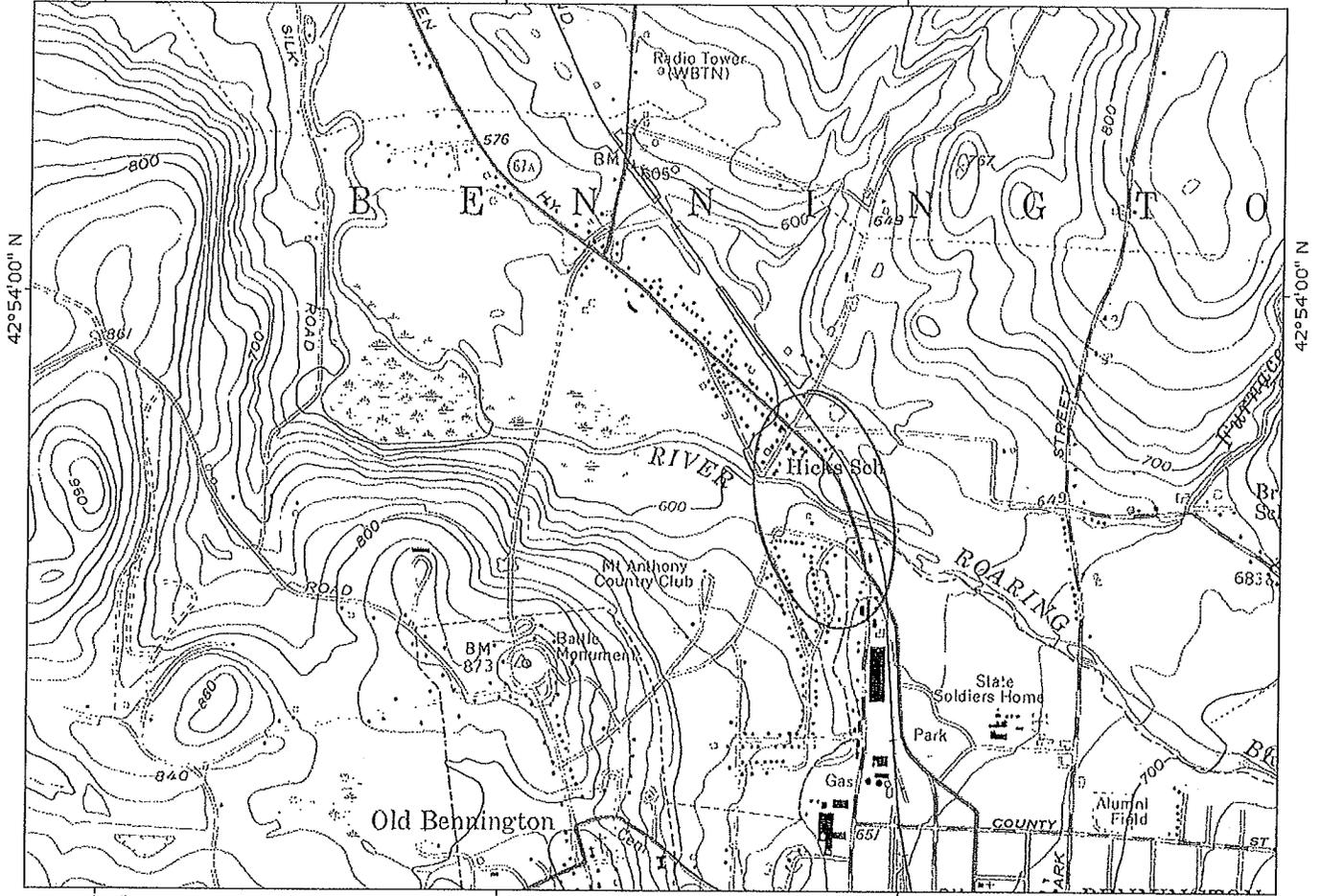


Google earth

feet
meters



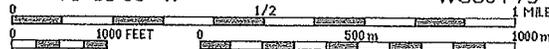
TOPO! map printed on 10/30/14 from "Svermont.tpo" and "Untitled.tpg"
73°14'00" W 73°13'00" W WGS84 73°12'00" W



73°14'00" W

73°13'00" W

WGS84 73°12'00" W



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Note: North and South Cofferdam PE Designs will be submitted at a later time.

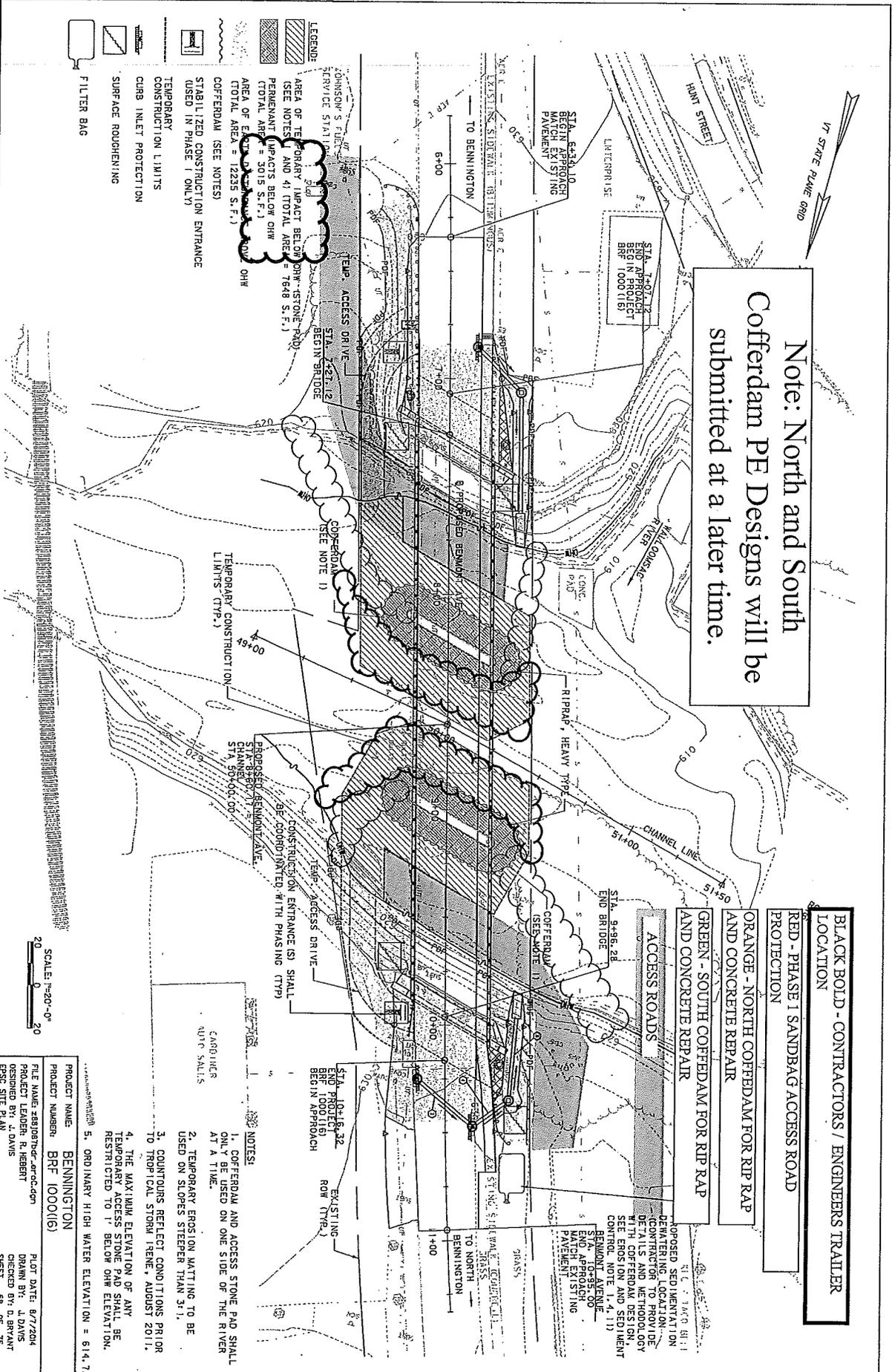
BLACK BOLD - CONTRACTORS / ENGINEERS TRAILER LOCATION

RED - PHASE I SANDBAG ACCESS ROAD PROTECTION

ORANGE - NORTH COFFEDAM FOR RIP RAP AND CONCRETE REPAIR

GREEN - SOUTH COFFEDAM FOR RIP RAP AND CONCRETE REPAIR

ACCESS ROADS



- LEGEND:**
- AREA OF TEMPORARY IMPACT BELOW OHW (SEE NOTES AND 4) TOTAL AREA = 7848 S.F.)
 - PERMANENT IMPACTS BELOW OHW (TOTAL AREA = 3015 S.F.)
 - AREA OF EROSION CONTROL (TOTAL AREA = 12235 S.F.)
 - COFFERDAM (SEE NOTES)
 - STABILIZED CONSTRUCTION ENTRANCE USED IN PHASE I ONLY
 - TEMPORARY CONSTRUCTION LIMITS
 - CURB INLET PROTECTION
 - SURFACE ROUGHENING
 - FILTER BAG

AREA OF TEMPORARY IMPACT BELOW OHW (SEE NOTES AND 4) TOTAL AREA = 7848 S.F.)

PERMANENT IMPACTS BELOW OHW (TOTAL AREA = 3015 S.F.)

AREA OF EROSION CONTROL (TOTAL AREA = 12235 S.F.)

COFFERDAM (SEE NOTES)

STABILIZED CONSTRUCTION ENTRANCE USED IN PHASE I ONLY

TEMPORARY CONSTRUCTION LIMITS

CURB INLET PROTECTION

SURFACE ROUGHENING

FILTER BAG

SCALE: 1"=20'-0"

0 20

PROJECT NAME: BENNINGTON

PROJECT NUMBER: BRF 1000(I)6

FILE NAME: z881087d-c-dc-dcn

PROJECT LEADER: R. HEBERT

DESIGNED BY: J. DAVIS

EPSC SITE PLAN

PLOT DATE: 8/7/2014

DRAWN BY: J. DAVIS

CHECKED BY: D. BRYANT

SHEET 58 OF 75

- NOTES:**
1. COFFERDAM AND ACCESS STONE PAD SHALL ONLY BE USED ON ONE SIDE OF THE RIVER AT A TIME.
 2. TEMPORARY EROSION MATTING TO BE USED ON SLOPES STEEPER THAN 3:1.
 3. COUNTERS REFLECT CONDITIONS PRIOR TO TROPICAL STORM IRENE, AUGUST 2011.
 4. THE MAXIMUM ELEVATION OF ANY TEMPORARY ACCESS STONE PAD SHALL BE RESTRICTED TO 1' BELOW OHW ELEVATION.
 5. ORDINARY HIGH WATER ELEVATION = 614.7.







OFF-SITE ACTIVITY REVIEW



VTRANS ENVIRONMENTAL RESOURCE REVIEW

Project/District Name: Bennington BRF 1000(16) Proposed Area Name: Hospitality Syracuse d/b/a Taco Bell/KFC property

Waste (NAD83, meters) Borrow Staging Other (Access Rd) X: 44263.96 Y: 43935.35

Natural Resource Review Reviewer: Glenn Gingras, Vtrans Biologist

Accepted Rejected Date 1-7-15 Signature Glenn Gingras

Comments See below conditions.

Cultural Resource Review Reviewer: Jen Russell, Vtrans Archaeology Officer

Accepted Rejected Date 1-7-15 Signature Jen Russell

Comments A Phase 1 study was conducted here in 2007. No arch sites were found and the area exhibited heavy disturbance.

The Site has been REJECTED for use at this time

The Contractor is advised to:

Seek another site for use

Hire an Environmental firm to _____

Hire an Archeological consultant to clear Section 106 issues

This site has been ACCEPTED (Site does not warrant any special conditions)

This site has been ACCEPTED with the following conditions:

Maintain a minimum buffer of _____ feet from _____

Orange fencing must be installed to protect nearby resources _____

Materials must be placed on geotextile fabric

Use of this site must comply with applicable local/state/federal permitting regulations including but not limited to:
Must Amend US COE Permit if Additional fill below OTW is required. Please

Please contact the Construction Environmental Engineer prior to use of this site.

Other: Tree clearing should be kept to a minimum. CC to Glenn Gingras on correspondence.

The VT ANR Low Risk Site Handbook for EPSC measures should be used as a minimum measure for best management practices at waste, borrow and staging sites.

A copy of this Review has been faxed to the Resident Engineer/District Tech Yes No

A copy of this Review has been delivered to the Construction Env Eng (CEE) Yes No

This clearance is for the Natural and Cultural Resources Only.

Bennington BRF 1000(16)
Access & Staging
Taco Bell & KFC



1:884

000020545.009.0139.018
Miles

proposed access road

Source: Esri, DigitalGlobe, GeoEye, EA
USDA, USGS, AEX, Getmapping, Aero
User, Community

Map created by J. Russell
PDD-Environmental Section
on 1-7-15

OFF-SITE ACTIVITY SUBMITTAL



- This form is to be completed in its entirety by the Contractor/District Tech when proposing any waste, borrow, or staging area or any work outside the defined Contract construction limits.
- Submit to Karen Spooner: karen.spooner@state.vt.us, Phone: (802)828-2169, Fax: (802)828-2334, VTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (c) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.

Received
1-5-15

SUBMITTAL INFORMATION

Project Name/District: BEAUMONT TOWN BIR 1070(16) Contractor/District Tech: ALPINE CONSTRUCTION L.L.C.
 Contact: William P. PATEMAN Phone: 513-695-6159 ^{Ext 3} Fax: 513-695-6124 E-mail: W.PATEMAN@ALPINECONSTRUCTION.BIZ
 Resident Engineer: RON LEMAREC Phone: 802-793-8163 Fax: 500.1EMAREC@STATE.VT.US

PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

Waste Borrow ~~Staging~~ Other (ex. dewatering location): ACCESS ROAD
 Material: Type (asphalt, concrete, earthen, etc.) ROCK Quantity (yds³) 45 yds
 Total Area of Land Disturbance (sq ft) 1200 SF
 Additional Info: _____

LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

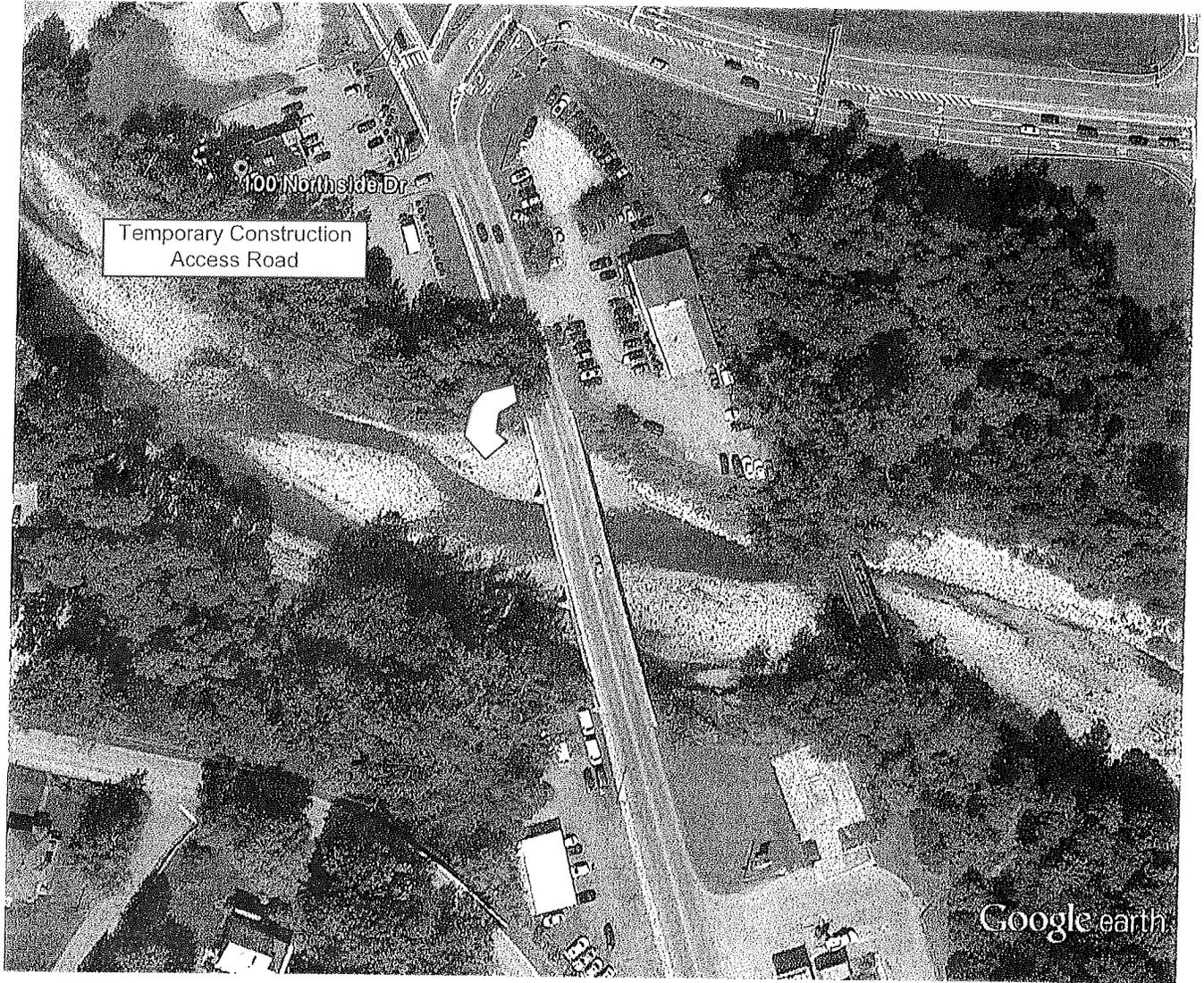
Name: Hospitality Systems Address: 100 Northville Drive Phone: 315-457-1957
 Print Name Doris A Taco Bell/CFE Bennington VT 05201
 Private Residential/Commercial Town/State Owned Facility Other
 Additional Info: Used as Taco Bell/CFE
 Are there other users of this site? Yes No
 Known past uses: _____
 Location Map (must be USGS Geological Survey Map (7.5'))
 Sketch of Area: North arrow Approx scale Recognizable features
 Permit Info:
 Act 250 Permit Exists? Yes No If Yes, # _____ Copy Enclosed? Yes No
 List of Other Existing Permits: _____

Sketch
Rec'd 1/5/15

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
 I, [Signature], warrant that the information in the above permit application is accurate.
 Landowner/Facility Manager Signature
 to the use of the proposed area by ALPINE CONSTRUCTION L.L.C. as shown on the attached sketch. If acting as the agent or
 Name of Contractor
 the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
 Date: 1/5/2015

This clearance is for the Natural and Cultural Resources Only.

X = 442632
Y = 439353



Google earth

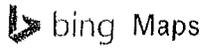


received
1.5.15



Google earth

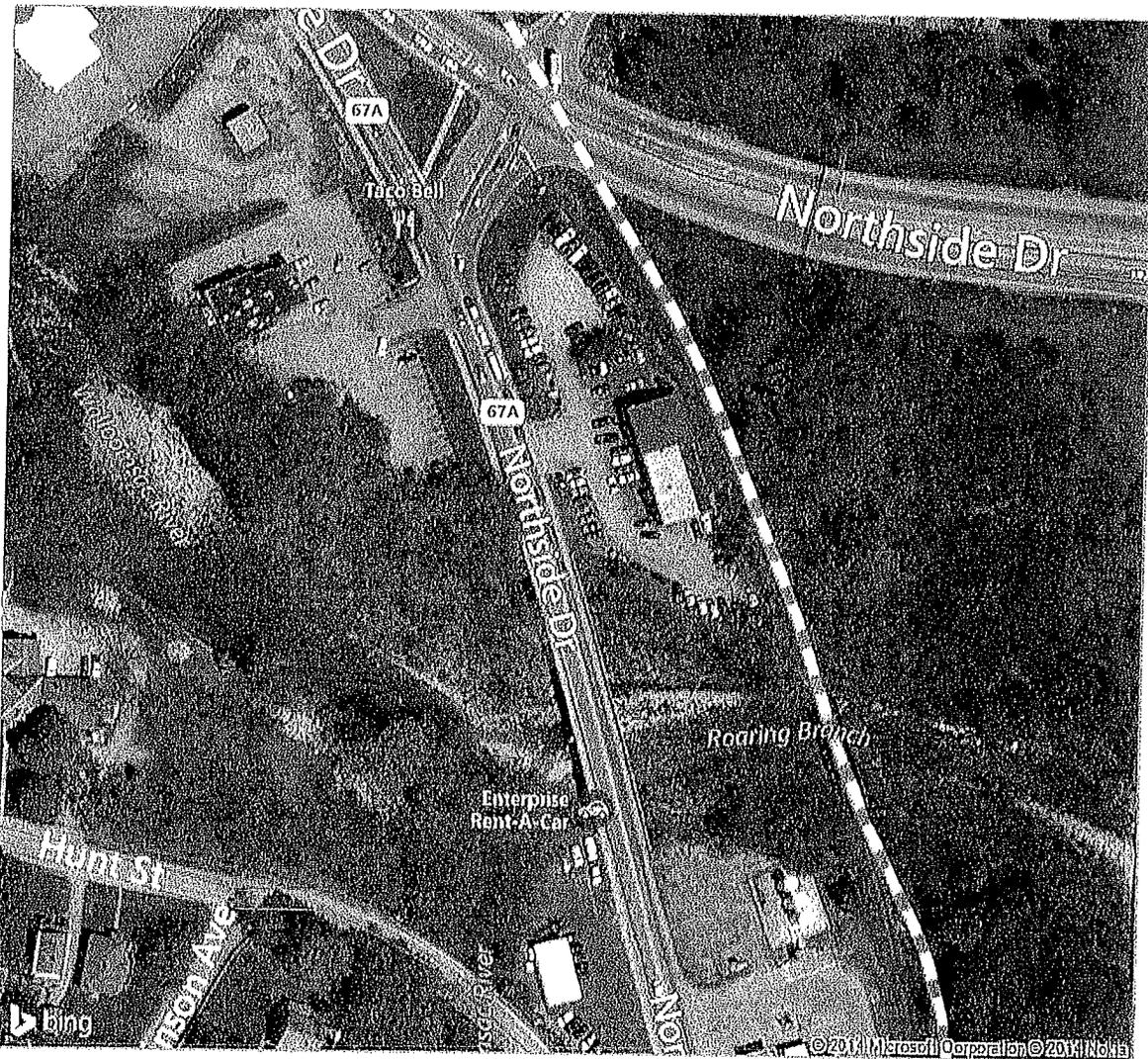
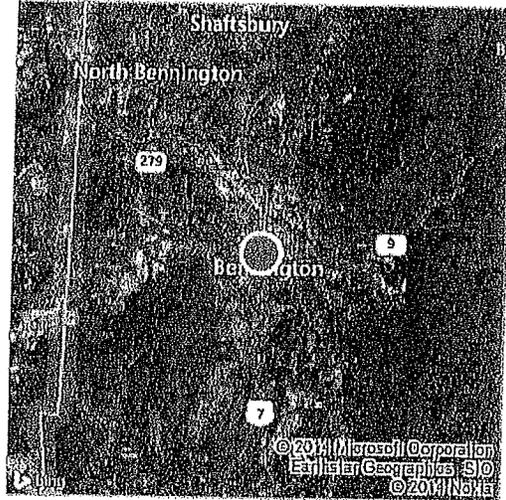




Benmont Ave, Bennington, VT 05201

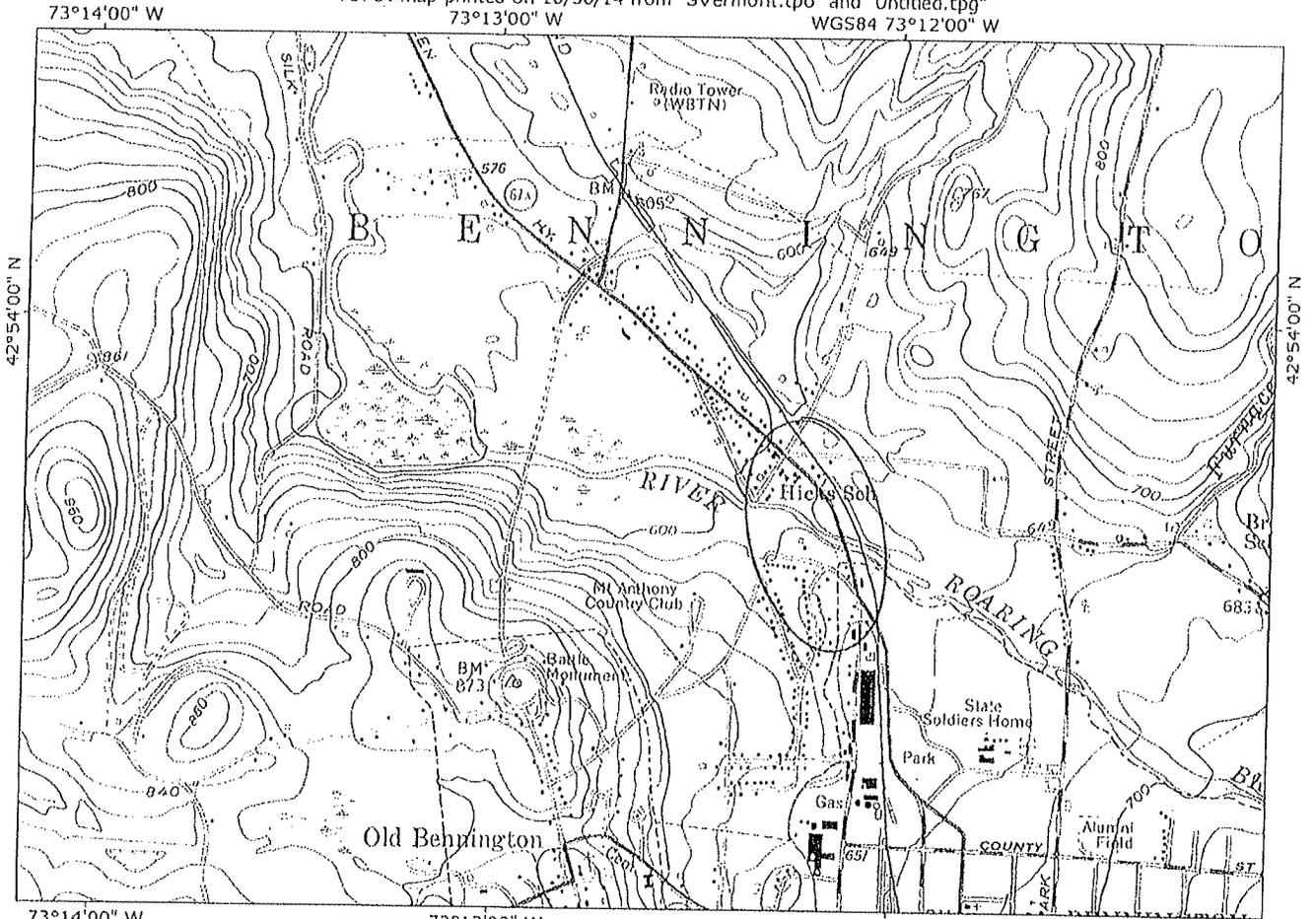
My Notes

On the go? Use m.bing.com to find maps, directions, businesses, and more

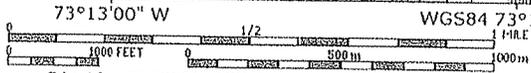


 Bird's eye view maps can't be printed, so another map view has been substituted.

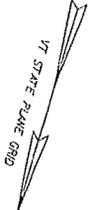
TOPO! map printed on 10/30/14 from "Svermont.tpo" and "Untitled.tpg"
WGS84 73°12'00" W



73°14'00" W
42°54'00" N
MAGNETIC NORTH
15°



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Note: North and South Cofferdam PE Designs will be submitted at a later time.

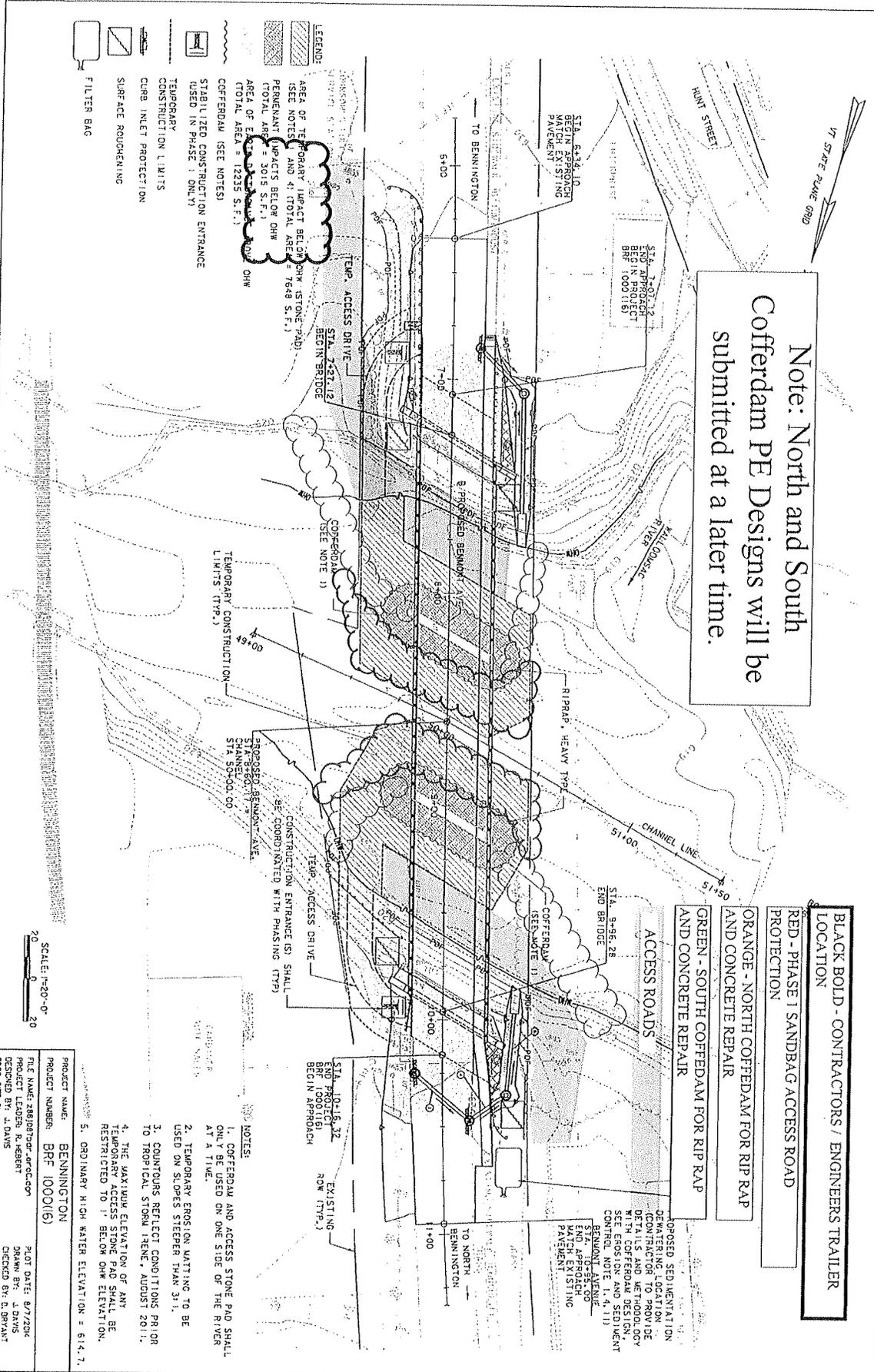
BLACK BOLD - CONTRACTORS / ENGINEERS TRAILER LOCATION

RED - PHASE 1 SANDBAG ACCESS ROAD PROTECTION

ORANGE - NORTH COFFEDAM FOR RIP RAP AND CONCRETE REPAIR

GREEN - SOUTH COFFEDAM FOR RIP RAP AND CONCRETE REPAIR

ACCESS ROADS



AREA OF TEMPORARY IMPACT BELOW STONE PAD (SEE NOTES) TOTAL AREA = 7648 S.F.)

AREA OF PERMANENT IMPACTS BELOW OHR (TOTAL AREA = 3015 S.F.)

AREA OF EXISTING SAND BAG PROTECTION (TOTAL AREA = 12235 S.F.)

TEMPORARY CONSTRUCTION LIMITS (TYP.)

ENDEPOSED SEDIMENTATION CHANNEL STA. 50+00.00

CONSTRUCTION ENTRANCE (S) SHALL BE COORDINATED WITH PHASING (TYP)

STA. 10+15.32 EXISTING ROW (TYP.)

STA. 10+00.00 END BRIDGE

- NOTES:**
1. COFFEDAM AND ACCESS STONE PAD SHALL ONLY BE USED ON ONE SIDE OF THE RIVER AT A TIME.
 2. TEMPORARY EROSION MATTING TO BE USED ON SLOPES STEEPER THAN 3:1.
 3. COUNTOURS REFLECT CONDITIONS PRIOR TO TROPICAL STORM IRMIE, AUGUST 2011.
 4. THE MAXIMUM ELEVATION OF ANY TEMPORARY ACCESS SHALL BE RESTRICTED TO 1' BELOW OHR ELEVATION.
 5. ORDINARY HIGH WATER ELEVATION = 614.7.

PROJECT NAME: **BENNINGTON**

PROJECT NUMBER: **BRF 1000(6)**

FILE NAME: Z8180304.dwg

PROJECT LEADER: R. KEHRER

DESIGNED BY: J. DAVIS

EPSC SITE PLAN

PLOT DATE: 8/7/20K

DRAWN BY: D. DRYAN

CHECKED BY: D. DRYAN

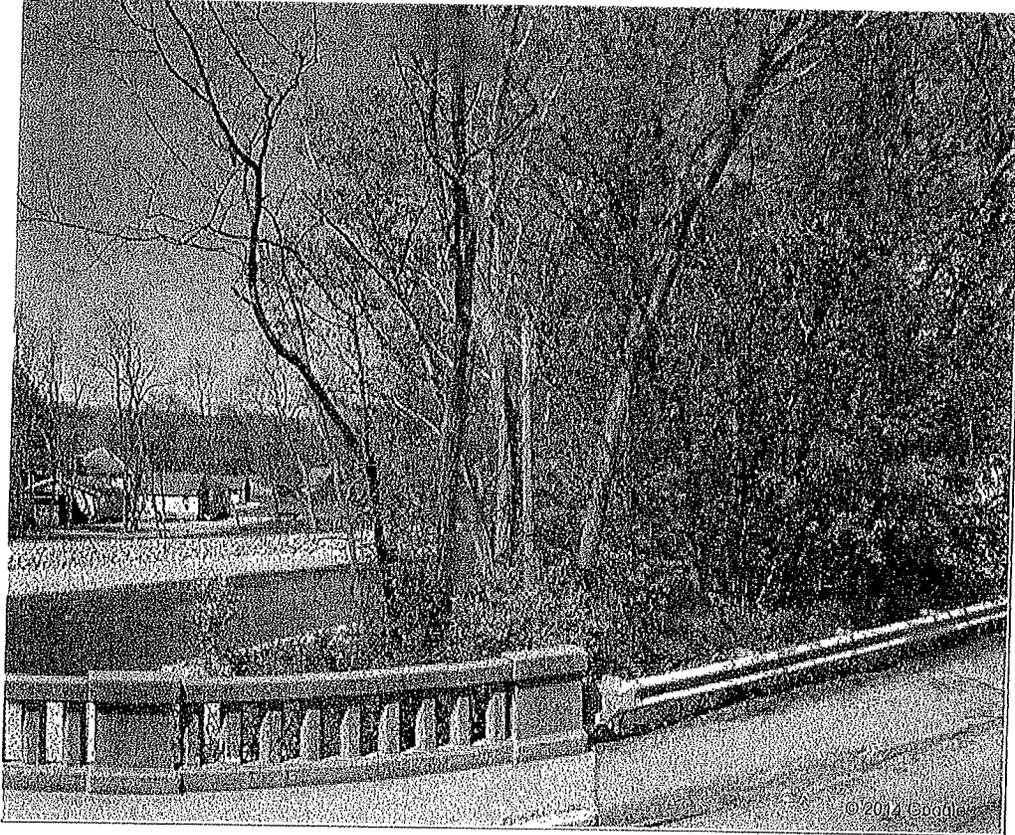
SHEET: 58 OF 75

SCALE: 1"=20'-0"

Google

Address **98 Northside Dr**

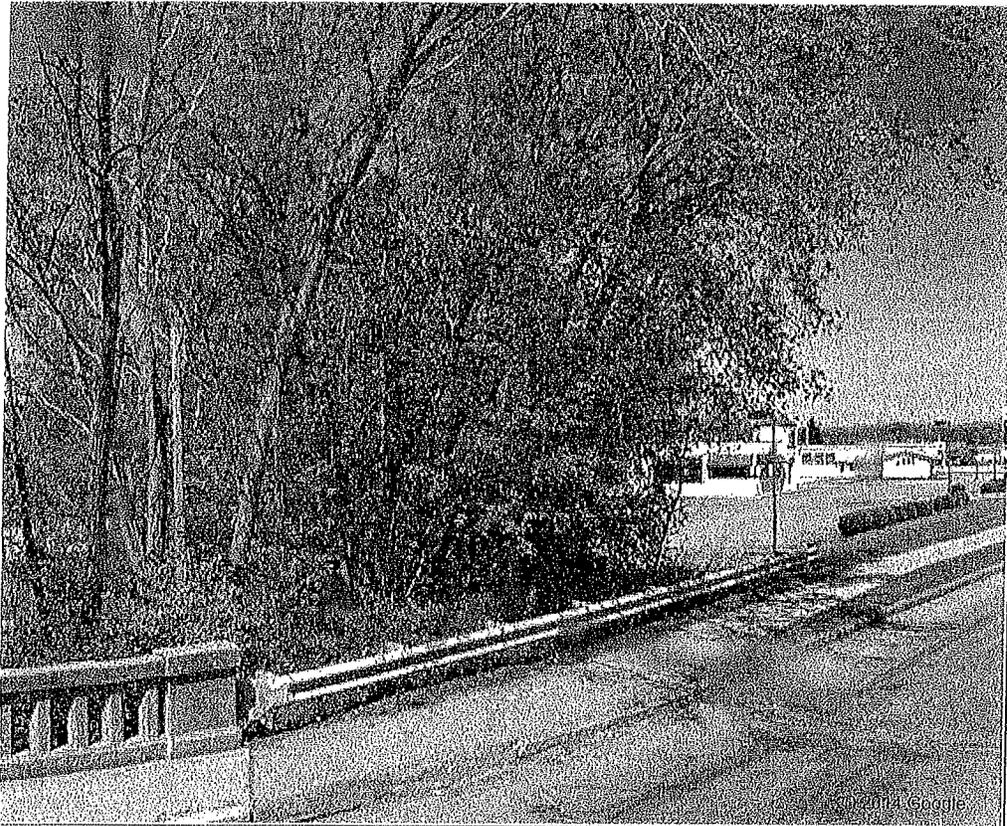
Address is approximate



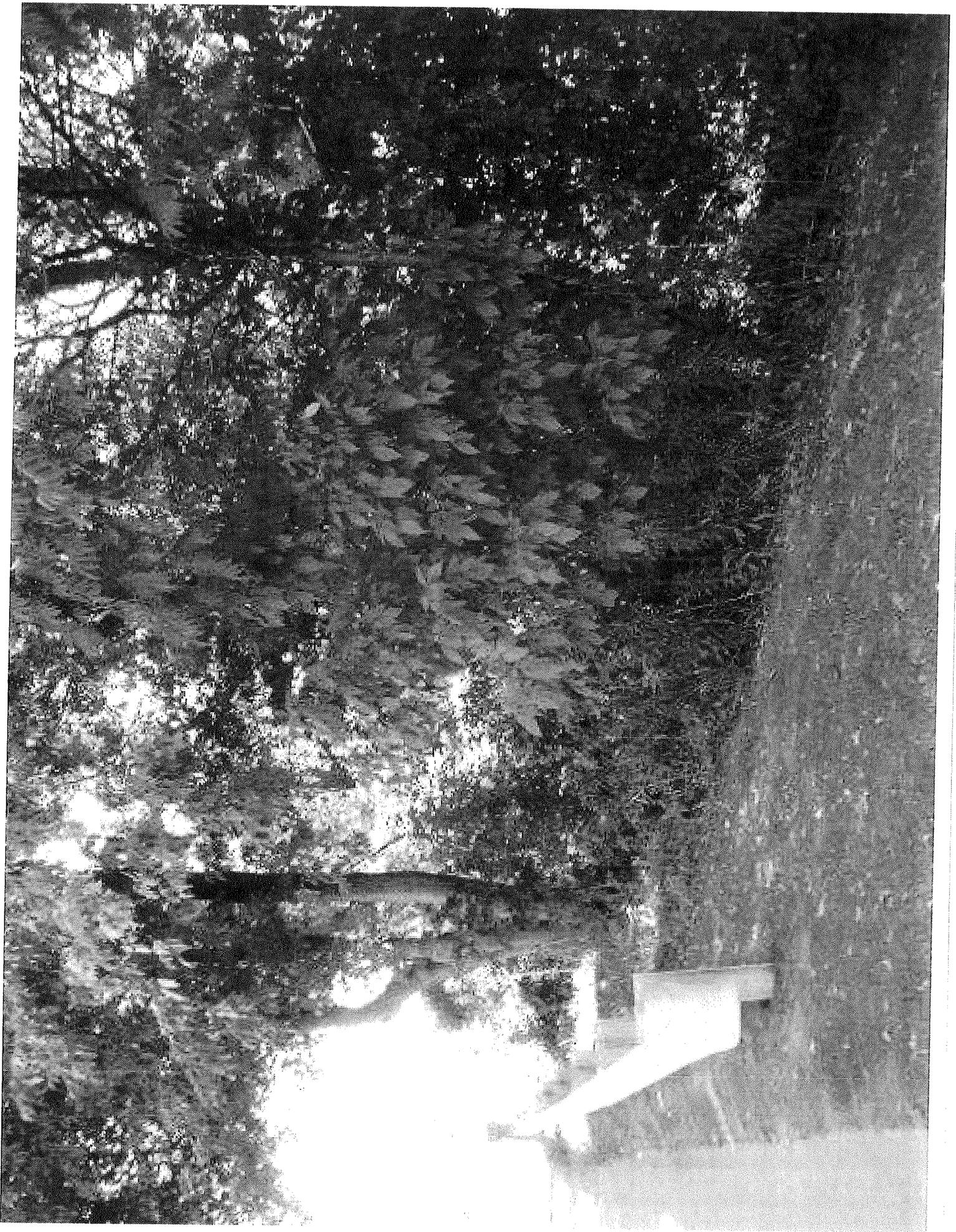
Google

Address **98 Northside Dr**

Address is approximate







APPENDIX 6

COE Permit Amendment



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

January 15, 2015

Regulatory Division
CENAE-R-PEC-61
Permit Number: NAE-2013-0966-M1

Mr. Glenn Gingras
Transportation Biologist
Vermont Agency of Transportation
One National Life Drive
Montpelier, Vermont 05633-5001
Glenn.Gingras@state.vt.us

Dear Mr. Gingras:

In accordance with Alpine Construction's recent request on your behalf, your Department of the Army permit, number NAE-2013-0966, is hereby amended. This work is located at Bridge No. 57 crossing of the Roaring Branch on Belmont Avenue in Bennington, Vermont. The work is shown on the enclosed plan, in one sheet, entitled "BENNINGTON BRF 1000(16)", dated "8/7/2014; Rev. Jan. 2015" and is described as follows:

Relocate the temporary access road for the north pier to the west side of the structure. The relocated access road will impact an additional 800 sq. ft. (0.018 acre) of river bottom below OHW.

The following special condition is also added to the permit:

The maximum surface elevation of any temporary cofferdam and/or access pad/road shall be 1' below the OHW elevation.

Your attention is also directed to the following special condition of the original permit: The temporary cofferdam and stone access pad to facilitate work on each pier shall be placed on one side of the river at a time. At no time shall more than one half of the river channel be occupied by an access pad and cofferdam.

The conditions of the original permit remain in full force and effect.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey

Please contact Marty Abair of my staff at (802) 872-2893 if you have any questions.

Sincerely,


Frank J. DelGiudice
Chief, Permits & Enforcement Branch
Regulatory Division

Attachments

Copies furnished:

Mr. Bill Farley

William.Farley@state.vt.us

Mr. John Conley

jconley@alpineconstruction.biz

Mr. Josh Carvajal

Joshua.Carvajal@state.vt.us

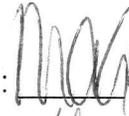
MFR: Permit #NAE-2013-0966 authorized the placement of fill in a total of about 10,663 sq. ft. (0.24 acre) of the Roaring Branch in conjunction with the replacement, on existing alignment, of Bridge No. 57 on Belmont Avenue in Bennington, Vermont. The work will involve the permanent placement of fill in 3015 sq. ft. (0.07 acre) of river bottom (below OHW), and the temporary placement of fill in 7648 sq. ft. (0.18 acre) of river bottom (below OHW). Temporary fills will be placed to access the existing piers. Temporary fills and cofferdams will be used on one side of the river at a time. Temporary fills will be removed in their entirety upon project completion and the area restored to pre-construction conditions.

The contract has been awarded and the contractor proposes to relocate the temporary access road for the north pier to the west side of the structure. The relocated access road will impact an additional 800 sq. ft. (0.018 acre) of river bottom below OHW. Total impacts of the project will increase to 11,463 sq. ft. (0.26 acre).

We have also added the following special condition to the permit to ensure the potential for flooding during unexpected high flows is minimized to the extent practicable: The maximum surface elevation of any temporary cofferdam and/or access pad/road shall be 1' below the OHW elevation.

There has been no other change in circumstances since issuance of the original permit.

SR. PROJECT MANAGER:

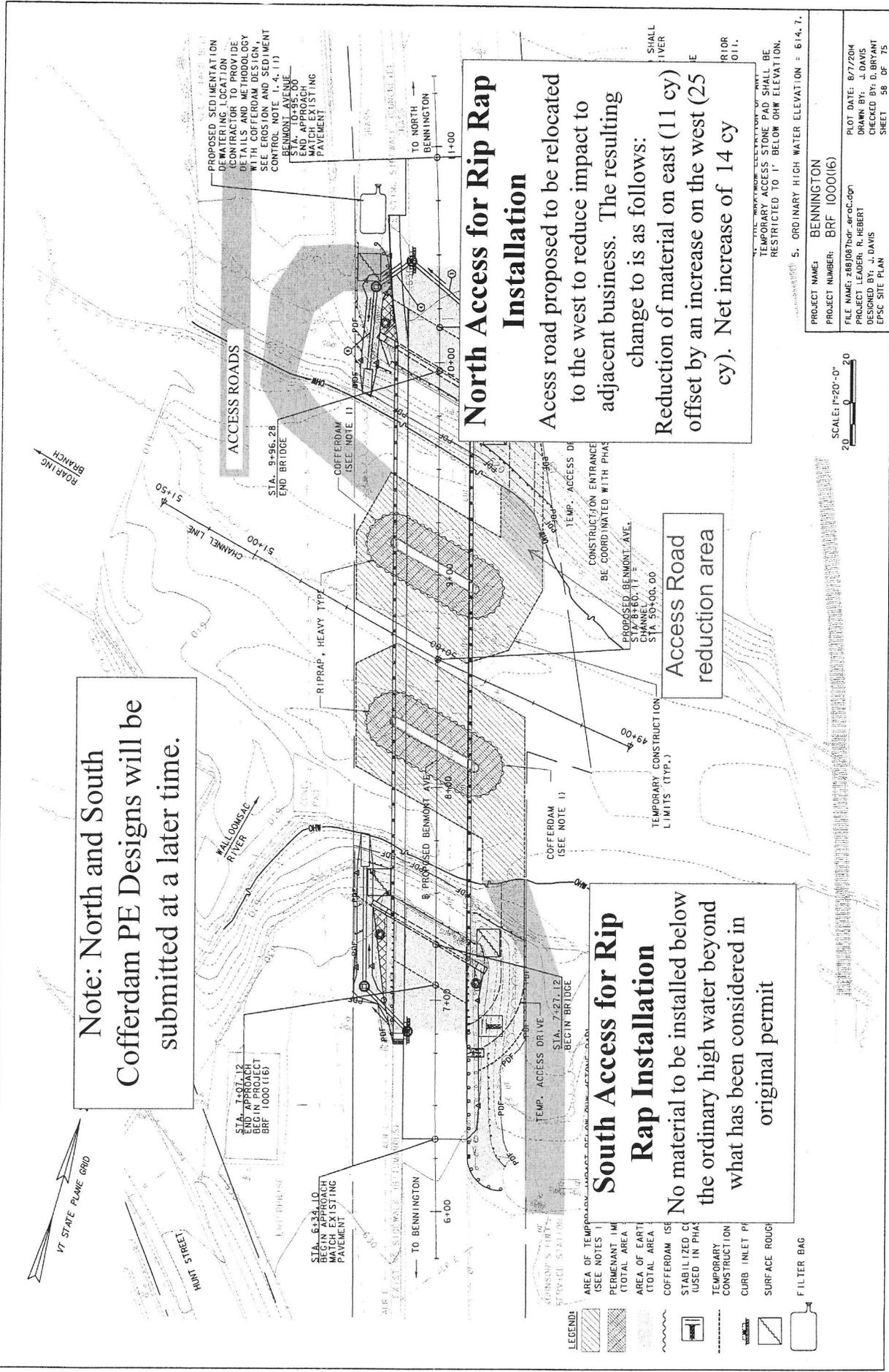


BRANCH CHIEF:





Note: North and South Cofferdam PE Designs will be submitted at a later time.



North Access for Rip Rap Installation
 Access road proposed to be relocated to the west to reduce impact to adjacent business. The resulting change to is as follows:
 Reduction of material on east (11 cy) offset by an increase on the west (25 cy). Net increase of 14 cy

Access Road reduction area

South Access for Rip Rap Installation
 No material to be installed below the ordinary high water beyond what has been considered in original permit

PROJECT NAME: BENNINGTON
 PROJECT NUMBER: BRF 1000(16)
 FILE NAME: z881087bdc-ppc.dwg
 PROJECT LEADER: R. HEBERT
 DESIGNED BY: J. DAVIS
 CHECKED BY: D. BRYANT
 SHEET 58 OF 75

SCALE: 1"=20'-0"

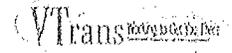
Rev. Jan. 2015

ORDINARY HIGH WATER ELEVATION = 614.7.
 TEMPORARY ACCESS STONE PAD SHALL BE RESTRICTED TO 1' BELOW OHW ELEVATION.

APPENDIX 7

Offsite Activity Exemption Records

OFF-SITE ACTIVITY EXEMPTION RECORD



To be completed by the Contractor and filed with the Resident Engineer.
Check the appropriate exemption category from the boxes below.

Plant #33 Shaftsbury VT

Staging Area Exemptions

The placement of construction trailers, equipment, and/or non-erodible materials

- On existing paved or gravel surfaces which will not require any additional earth disturbance

Borrow Site Exemptions

- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits

Waste Disposal Exemptions

- The use of project generated Solid Wastes to build the same project, or another project owned by the same entity
- Batch plants for recycling of materials and subsequent re-use
- The disposal of any (erodible or non-erodible) materials in an existing shed at any public transportation facility to which the material will be stored for later re-use
- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits
- The disposal of hazardous materials at a facility which has been reviewed and approved by the Agency's Hazardous Materials Specialist

Project Name: BEUNINGTON BRP 1080 (16)

Proposed Area Name: 1296 VT. RT 7A Shaftsbury VT 05267

Landowner Signature: _____

Act 250 Permit # (for Existing, In-use sites) _____

Act 250 Grandfathered Signature [Signature] GM Vermont Operations
(Owner or authorized representative)

OFF-SITE ACTIVITY EXEMPTION RECORD

VTrans vermont.gov

To be completed by the Contractor and filed with the Resident Engineer.
Check the appropriate exemption category from the boxes below.

Plant #50 Hoosick Quarry

Staging Area Exemptions

The placement of construction trailers, equipment, and/or non-erodible materials

- On existing paved or gravel surfaces which will not require any additional earth disturbance

Borrow Site Exemptions

- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits

Waste Disposal Exemptions

- The use of project generated Solid Wastes to build the same project, or another project owned by the same entity
- Batch plants for recycling of materials and subsequent re-use
- The disposal of any (erodible or non-erodible) materials in an existing shed at any public transportation facility to which the material will be stored for later re-use
- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits
- The disposal of hazardous materials at a facility which has been reviewed and approved by the Agency's Hazardous Materials Specialist

Project Name: BENNINGTON BRP 1000 (16)

Proposed Area Name: 114 FARMERS INN ROAD, HOOSICK FALLS, N.Y. 12040

Landowner Signature: *Guian Rut*

Act 250 Permit # (for Existing, In-use sites) 4-3828-00058-00001 MLS # 40670

Act 250 Grandfathered Signature _____
(Owner or authorized representative)-