

EROSION SEDIMENT CONTROL PLAN
FOR THE
ROCKINGHAM BRF 0126(12) PROJECT

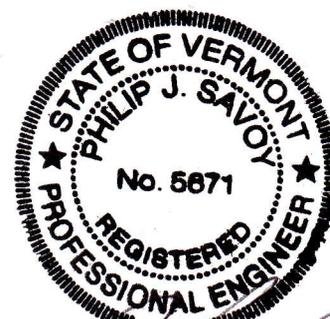


PREPARED BY:

COLD RIVER BRIDGES, LLC
10 LANBRO LANE
WALPOLE, NH 03608

REVIEWED BY:
SAVOY ENGINEERING

October 15th 2014



Philip J. Savoy
10-15-14

1-EROSION CONTROL NARRATIVE:

This project consists of the replacement of Bridge # 11R on Vermont 121 spanning the Saxtons River located 4.1 miles west of the Junction of Route 5. The project will replace the superstructure with new abutments on piles and rehab of the piers. The project will be constructed on the existing alignment and completed in 2 phases.

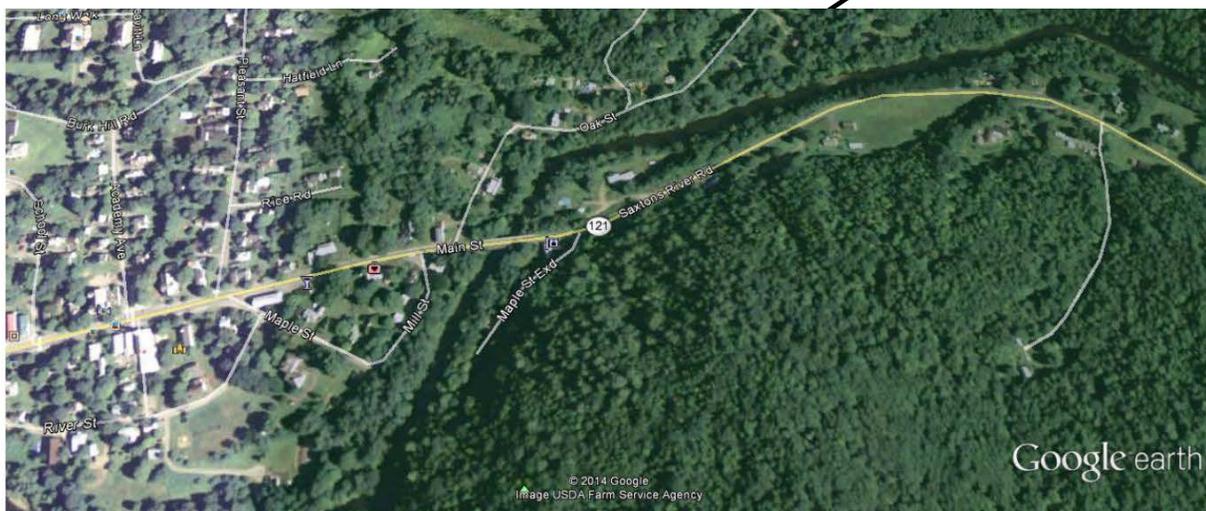
No changes have been made to the Erosion and Sediment control plan as shown in the contract documents. These plan sheets will be utilized as Cold River Bridges, LLC Erosion and Sediment Control Plan. It is not anticipated that any dewatering will be required, for the purpose of unanticipated dewatering a silt bag detail has been shown.

Special Winter Construction Conditions: The Rockingham BRF 0126(12) is scheduled to work during the winter period of October 15th 2014 to April 1st 2015. During this period minimal soil disturbance will be exposed. The Town of Rockingham is responsible for snow-removal during the contract. A snow removal plan will not be needed. The following conditions will apply.

1. Install silt fence before ground is frozen.
2. Drainage structures shall be kept open and free from snow and debris.
3. Apply mulch at twice the standard rate with 80-90 % cover on all disturbed areas.
4. Disturbed areas shall be covered within 24 hours of a forecasted storm event.

Rockingham BRF 0126(12)

Project Location Map



Google earth

feet 1000
meters 500



1.5-Project Phasing and Schedule

Task Name	Duration	Start	Finish
FIELD CONSTRUCTION TASK	11 days	Fri 10/31/14	Fri 11/14/14
MOBILIZATION	5 days	Fri 10/31/14	Thu 11/6/14
ESC MEASURES	1 day	Fri 11/7/14	Fri 11/7/14
TRAFFIC CONTROL	5 days	Mon 11/10/14	Fri 11/14/14
INSTALL LIGHTS PHASE I	3 days	Mon 11/10/14	Wed 11/12/14
TEMP LINE STRIPE	1 day	Thu 11/13/14	Thu 11/13/14
BARRIER	1 day	Fri 11/14/14	Fri 11/14/14
REMOVAL OF STRUCTURE PHASE I DECK	5 days	Mon 11/17/14	Fri 11/21/14
TEMP SHEET-PILE-PHASE I	4 days	Mon 11/24/14	Thu 11/27/14
STRUCTURE EXCAVATION/REMOVAL	5 days	Fri 11/28/14	Thu 12/4/14
PILES ABUT 1 PHASE I	5 days	Fri 12/5/14	Thu 12/11/14
CONCRETE/R-BAR ABUTMENT 1 PHASE 1	8 days	Fri 12/12/14	Tue 12/23/14
CURE ABUTMENT 1	7 edays?	Tue 12/23/14	Tue 12/30/14
BACKFILL AND STONE PHASE 1 ABUT 1	4 days	Wed 12/31/14	Mon 1/5/15
TEMP SHEET-PILE PHASE 1 ABUT 2	4 days	Wed 12/31/14	Mon 1/5/15
STRUCTURE EXCAVATION/REMOVAL	5 days	Fri 12/12/14	Thu 12/18/14
PILES ABUTMENT II PHASE 1	5 days	Fri 12/19/14	Thu 12/25/14
HOLIDAY PERIOD	6 days	Thu 12/25/14	Thu 1/1/15
CONCRETE/R-BAR ABUTMENT II PHASE 1	8 days	Fri 1/2/15	Tue 1/13/15
CURE ABUTMENT II PHASE 1	7 edays	Tue 1/13/15	Tue 1/20/15
BACKFILL AND STONE PHASE 1 ABUT II	4 days	Wed 1/21/15	Mon 1/26/15
PIER WORK-BRIDGE SEATS	10 days	Mon 3/16/15	Fri 3/27/15
PREP WORK FOR NEXT BEAM ERECTION PHASE 1	20 days	Thu 3/5/15	Wed 4/1/15
NEXT BEAM ERECTION	2 days	Thu 4/2/15	Fri 4/3/15
FORM DIAPHRAMS AND CLOSURE STRIPS PHASE 1	10 days	Mon 4/6/15	Fri 4/17/15
POUR DIAPHRAGMS AND CLOSURE STRIPS PHASE 1	1 day	Mon 4/20/15	Mon 4/20/15
FORM AND POUR BRIDGE RAIL-PHASE 1	7 days	Tue 4/21/15	Wed 4/29/15
CURE BRIDGE RAIL-PHASE 1	7 days	Wed 4/29/15	Wed 5/6/15
ROADWORK PHASE I	6 days	Thu 4/30/15	Thu 5/7/15
MEMBRANE AND PAVE PHASE I	2 days	Fri 5/8/15	Mon 5/11/15
INSTALL BRIDGE RAIL/GRAIL-PHASE 1	2 days	Thu 5/7/15	Fri 5/8/15
SWITCH TRAFFIC PHASE II	1 day	Mon 5/11/15	Mon 5/11/15
REMOVAL OF STRUCTURE PHASE II DECK	5 days	Tue 5/12/15	Mon 5/18/15
TEMP SHEET-PILE-PHASE II	2 days	Tue 5/19/15	Wed 5/20/15
STRUCTURE EXCAVATION/REMOVAL	4 days	Thu 5/21/15	Tue 5/26/15
PILES ABUT 1 PHASE II	4 days	Wed 5/27/15	Mon 6/1/15
CONCRETE/R-BAR ABUTMENT 1 PHASE II	8 days	Tue 6/2/15	Thu 6/11/15
CURE ABUTMENT 2	7 days	Thu 6/11/15	Thu 6/18/15
BACKFILL AND STONE PHASE II ABUT 1	4 days	Fri 6/19/15	Wed 6/24/15

ROCKINGHAM BRF 0126 (12)

TEMP SHEET-PILE PHASE II ABUT 2	4 days	Thu 6/25/15	Tue 6/30/15
STRUCTURE EXCAVATION/REMOVAL	5 days	Wed 7/1/15	Tue 7/7/15
PILES ABUTMENT II PHASE II	5 days	Wed 7/8/15	Tue 7/14/15
CONCRETE/R-BAR ABUTMENT II PHASE II	8 days	Wed 7/15/15	Fri 7/24/15
CURE ABUTMENT II PHASE II	7 days	Fri 7/24/15	Fri 7/31/15
BACKFILL AND STONE PHASE I ABUT II	4 days	Mon 8/3/15	Thu 8/6/15
PIER WORK-BRIDGE SEATS	10 days	Fri 8/7/15	Thu 8/20/15
PREP WORK FOR NEXT BEAM ERECTION PHASE II	10 days	Fri 8/21/15	Thu 9/3/15
NEXT BEAM ERECTION	4 days	Fri 9/4/15	Wed 9/9/15
FORM diaphragms AND CLOSURE STRIPS PHASE II	10 days	Thu 9/10/15	Wed 9/23/15
POUR diaphragms AND CLOSURE STRIPS PHASE II	1 day	Thu 9/24/15	Thu 9/24/15
6 HR CLOSURE CENTER CLOSURE POUR	0.5 days	Fri 9/25/15	Fri 9/25/15
FORM AND POUR BRIDGE RAIL-PHASE II	7 days	Fri 9/25/15	Tue 10/6/15
CURE BRIDGE RAIL-PHASE II	7 days	Tue 10/6/15	Tue 10/13/15
INSTALL BRIDGE RAIL/GRAIL-PHASE II	3 days	Tue 10/13/15	Fri 10/16/15
ROAD WORK PHASE II	6 days	Thu 9/24/15	Thu 10/1/15
MEMBRANE AND PAVE PHASE II	3 days	Tue 10/6/15	Fri 10/9/15
PLUG JOINTS	2 days	Fri 10/9/15	Tue 10/13/15
FINAL STRIPING	1 day	Tue 10/13/15	Wed 10/14/15

1.5.2-Off Site Activities

The project field office will be located at # 5 RT 121 in an existing office building, this location does not require a submittal. Staging areas will also be on the RT 121 property on an existing gravel parking areas. The lot is located adjacent to the office building is currently used and will not require any earth disturbance. An exemption form will be submitted to the Resident Engineer.

The Waste area for this project will be the Town Garage located on RT 103 in Rockingham. The material will be stockpiled for future use. An exemption form will be submitted to the Resident Engineer.

1.5.3-Updates

If necessary any field changes or updates to The EPSC plan will be submitted to the Resident Engineer in the form of an updated narrative including sketches as needed.

1.6. On-site plan coordinator/weekly inspections

Chad Contaldi is a project manager for Cold River Bridges, LLC and will be the plan coordinator and will be responsible for completing an inspection of all construction activities at least once every 7 days and with 24 hours of a significant storm event causing storm water to leave the site. A copy of the VTRANS Contractors Check List and ESCP Plan inspection report are included as part of the plan.

On site Superintendent for Cold River Bridges, LLC will be Josh Martin. Josh has worked as a bridge supervisor for the past 10 years and has full authority to stop construction and ensure that the project is completed following the requirements of the Erosion and Sediment Control Plan.

1.6.1 Emergency Contact Numbers

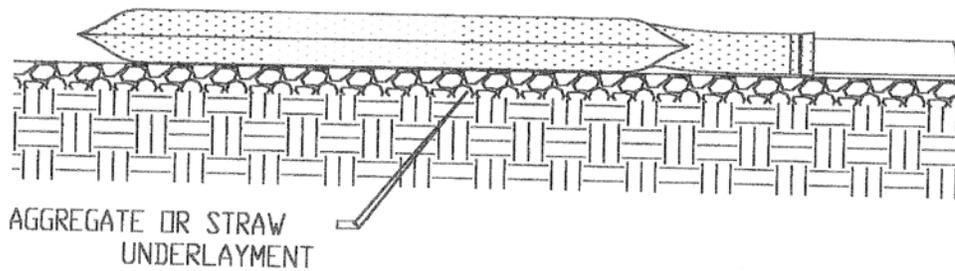
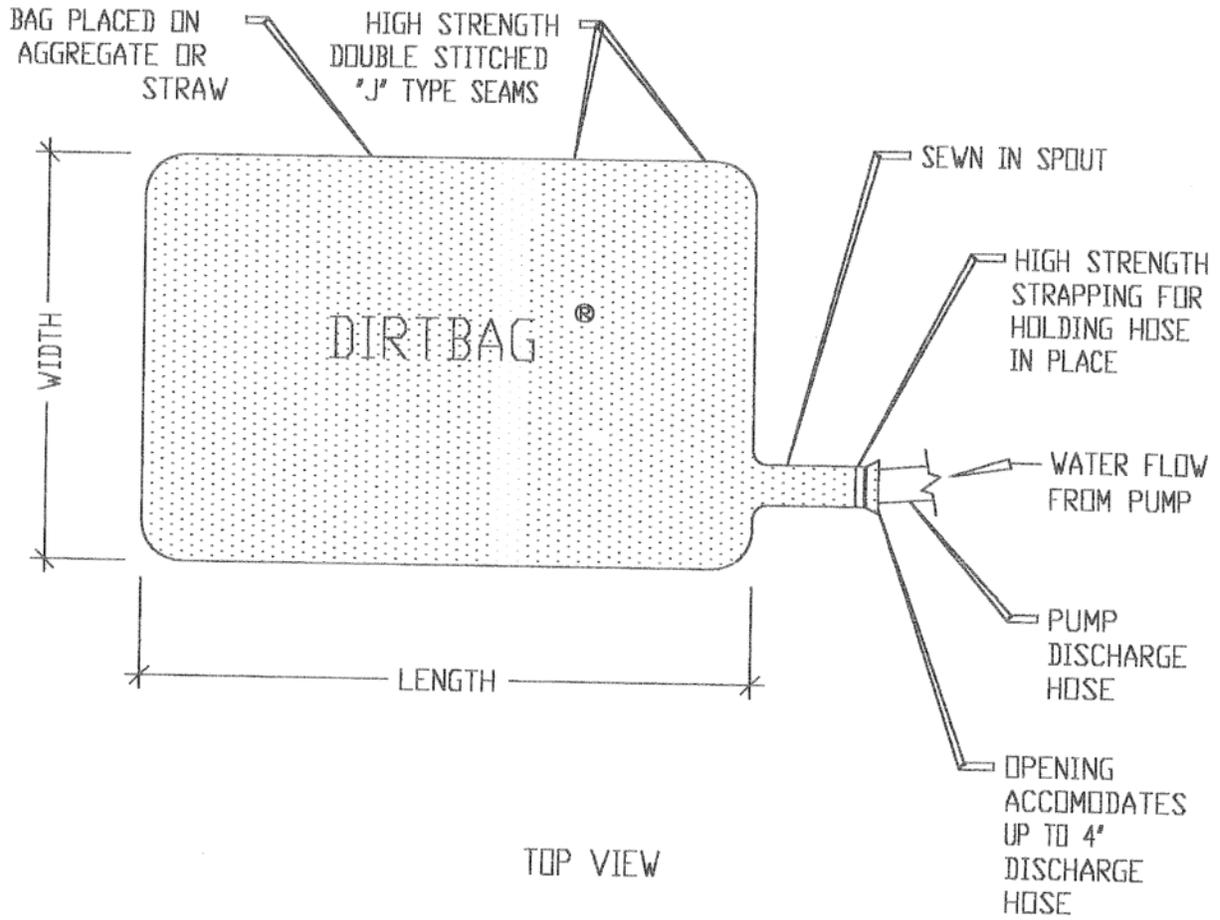
Chad Contaldi- 802-355-1898

Josh Martin- 603-443-0812

1.6.2 Plan Preparer and reviewer

Chad Contaldi has prepared this plan under the direction of Phil Savoy of Savoy Engineering. Chad has pre-prepared numerous plans for Vermont AOT projects under the direction of Savoy Engineering. Chad has degrees in Civil Engineering and Construction Management and has been working for 15 years in the Construction Field. Chad is also working towards earning his CPESC certification.

Phil Savoy of Savoy of Savoy Engineering located in Westminster Vermont is an accomplished engineer who has worked with Cold River Bridges on numerous projects including the Waterford St. Johnsbury IM MEB (32) project and the reconstruction of the Historic Bartonville Covered Bridge project.



EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF THE BRIDGE ON STATE ROUTE 121 SPANNING OVER THE BODY OF WATER KNOWN AS SAXTONS RIVER IN THE TOWN OF ROCKINGHAM. WORK WILL INVOLVE REPLACEMENT OF BOTH ABUTMENTS AND THE BRIDGE SUPERSTRUCTURE ON THE EXISTING ALIGNMENT. EXISTING ABUTMENTS WILL BE PARTIALLY REMOVED TO THE LIMITS SHOWN ON THE EARTHWORK TYPICAL SECTION SHEET. ALSO INCLUDED WILL BE RELATED CHANNEL AND APPROACH WORK. THE LENGTH OF THE PROJECT IS APPROXIMATELY 243 FEET ALONG VT ROUTE 121. THE SITE IS LOCATED, BASED ON NAD 83/92 AT 233073.66 N, 1639680.82 E (POINT HVCTRL #2- SEE TIE SHEET).

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 TO VTRANS ENVIRONMENTAL SECTION FOR APPROVAL, 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 17,067 SF (0.39 ACRES).

IT IS ANTICIPATED THAT THE PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY, EXISTING ROADS, UTILITIES

THE TOPOGRAPHY SURROUNDING THE PROJECT SITE CONSISTS MOSTLY OF LIGHTLY WOODED AREAS AND RESIDENTIAL PROPERTIES WITH WELL ESTABLISHED LAWNS. PORTIONS NEAR THE WATER BODY INCLUDE LIGHTLY WOODED AREAS WITH MODERATE SLOPES. THE GENERAL TOPOGRAPHY OF THE AREA SLOPES FROM THE SOUTH TO THE NORTH. ALL ROAD SURFACES IN THE PROJECT AREA ARE BITUMINOUS CONCRETE PAVEMENT. THERE IS ONE COMMERCIAL BUILDING AND ONE RESIDENTIAL BUILDING ON THE SOUTH AND NORTH SIDES OF THE EAST APPROACH ROADWAY RESPECTIVELY. THERE IS ONE RESIDENTIAL BUILDING ON EACH SIDE OF THE WEST APPROACH ROADWAY.

THERE ARE OVERHEAD ELECTRICAL AND TELEPHONE LINES ON THE EAST AND WEST ENDS OF THE PROJECT THAT SPAN THE FULL LENGTH OF THE BRIDGE ON THE NORTH SIDE. OVERHEAD LINES ALSO CROSS ROUTE 121 ON THE EAST AND WEST ENDS OF THE PROJECT.

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 SAXTONS RIVER. THE STREAM IS CHARACTERIZED AS STRAIGHT TO SINUOUS, ALLUVIAL, PROBABLY INCISED AND STABLE WITH A GRAVEL AND COBBLE STREAMBED. THERE IS ALSO AN UNNAMED STREAM NEAR THE NORTHWEST CORNER OF THE BRIDGE.

THE FOLLOWING DESCRIPTIONS ARE FOR THE EXISTING SITE PLANS: SURFACE DRAINAGE FROM STATE ROUTE 121 FLOWS DOWN EXISTING VEGETATED AND WOODED SIDESLOPES AND INTO SAXTONS RIVER.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS MOSTLY OF LIGHTLY WOODED AREAS. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS REQUIRED FOR REPLACEMENT OF THE EXISTING BRIDGE. 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 WINDHAM, VERMONT. SOILS ON THE PROJECT SITE ARE:

THROUGHOUT THE PROJECT THE SOIL TYPE IS QUONSET AND WARWICK, 2 TO 8 PERCENT SLOPE, "K FACTOR" = 0.16. THE EROSION HAZARD IS "LOW" DUE TO ITS K FACTOR.

1.2.4 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: SAXTONS RIVER IS DEFINED AS ESSENTIAL FISH HABITAT.
 HISTORICAL OR ARCHAEOLOGICAL AREAS: THERE ARE SEVERAL AREAS OF ARCHAEOLOGICAL SIGNIFICANCE ON BOTH THE EAST AND WEST ENDS OF THE PROJECT. THE WEST BANK OF THE RIVER IS A NATIONAL REGISTERED LANDMARK DESIGNATED HISTORIC VILLAGE DISTRICT.
 PRIME AGRICULTURE LAND: NO
 THREATENED AND ENDANGERED SPECIES: NO
 WATER RESOURCE: SAXTONS RIVER AND UNNAMED BROOK
 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 FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. 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 CONSISTS 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.

THE SITE BOUNDARIES SHALL BE PHYSICALLY MARKED. THE CONTRACTOR MAY CHOOSE PROJECT DEMARCATION FENCING (PDF) AND/OR BARRIER FENCE TO MARK THE 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 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 OR AS NECESSARY.

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. STONE FILL WILL BE USED TO STABILIZE THE STREAMBED SLOPES AROUND 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.

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 NOT ANTICIPATED.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

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.

COLD RIVER BRIDGES, LLC
 10 IAMBRO IANE
 WALPOLE, NH
 TEL 603-756-9300 FAX 603-756-9303

ROCKINGHAM BRF 0126(12)

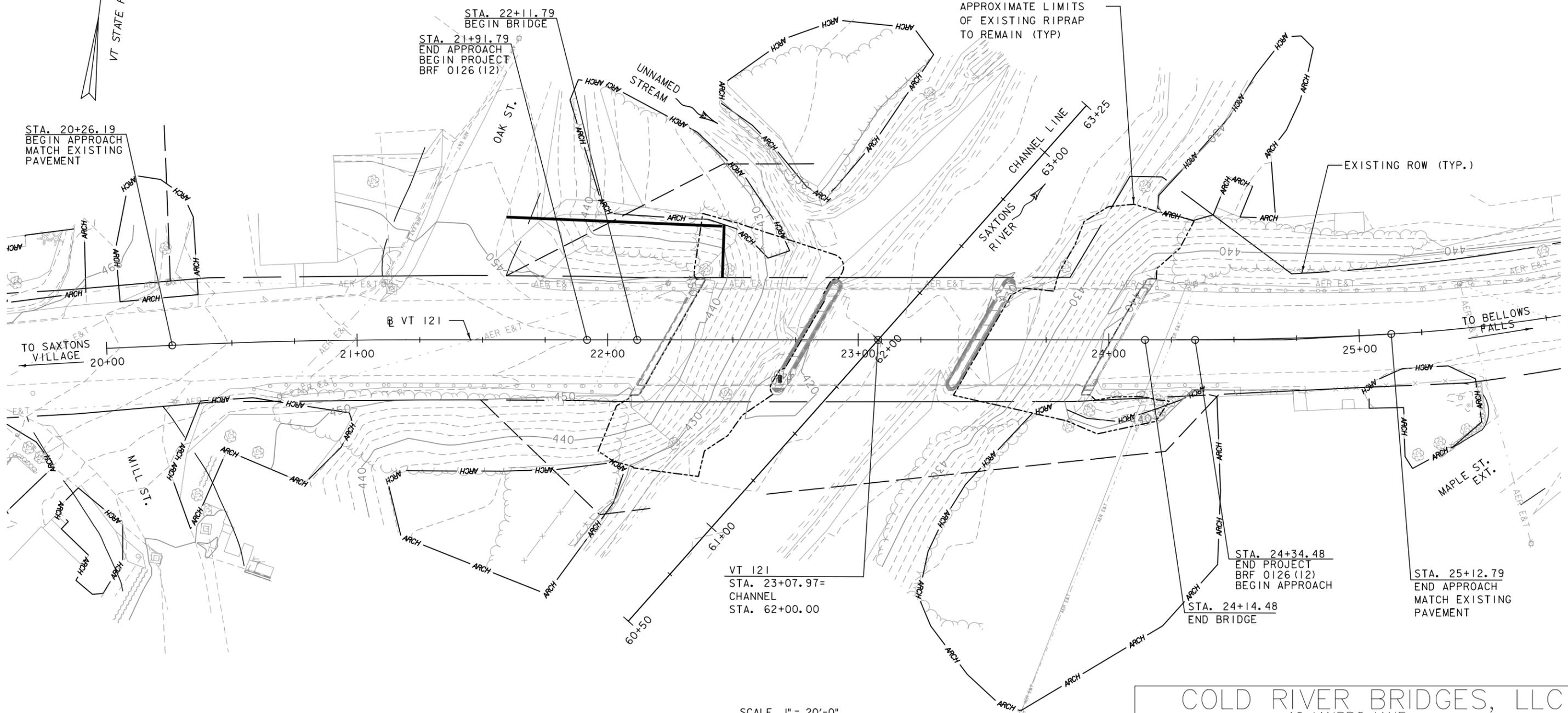
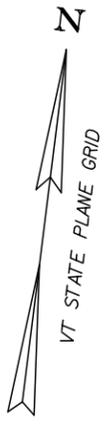
ESCP PLAN NOTES

SHEET NUMBER

1

DATE:

scale: NTS



STA. 20+26.19
BEGIN APPROACH
MATCH EXISTING
PAVEMENT

STA. 21+91.79
END APPROACH
BEGIN PROJECT
BRF 0126 (12)

STA. 22+11.79
BEGIN BRIDGE

APPROXIMATE LIMITS
OF EXISTING RIPRAP
TO REMAIN (TYP)

EXISTING ROW (TYP.)

TO SAXTONS
VILLAGE
20+00

TO BELLOWS
FALLS

MILL ST.

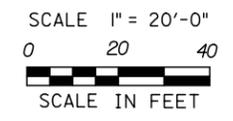
MAPLE ST.
EXT.

VT 121
STA. 23+07.97=
CHANNEL
STA. 62+00.00

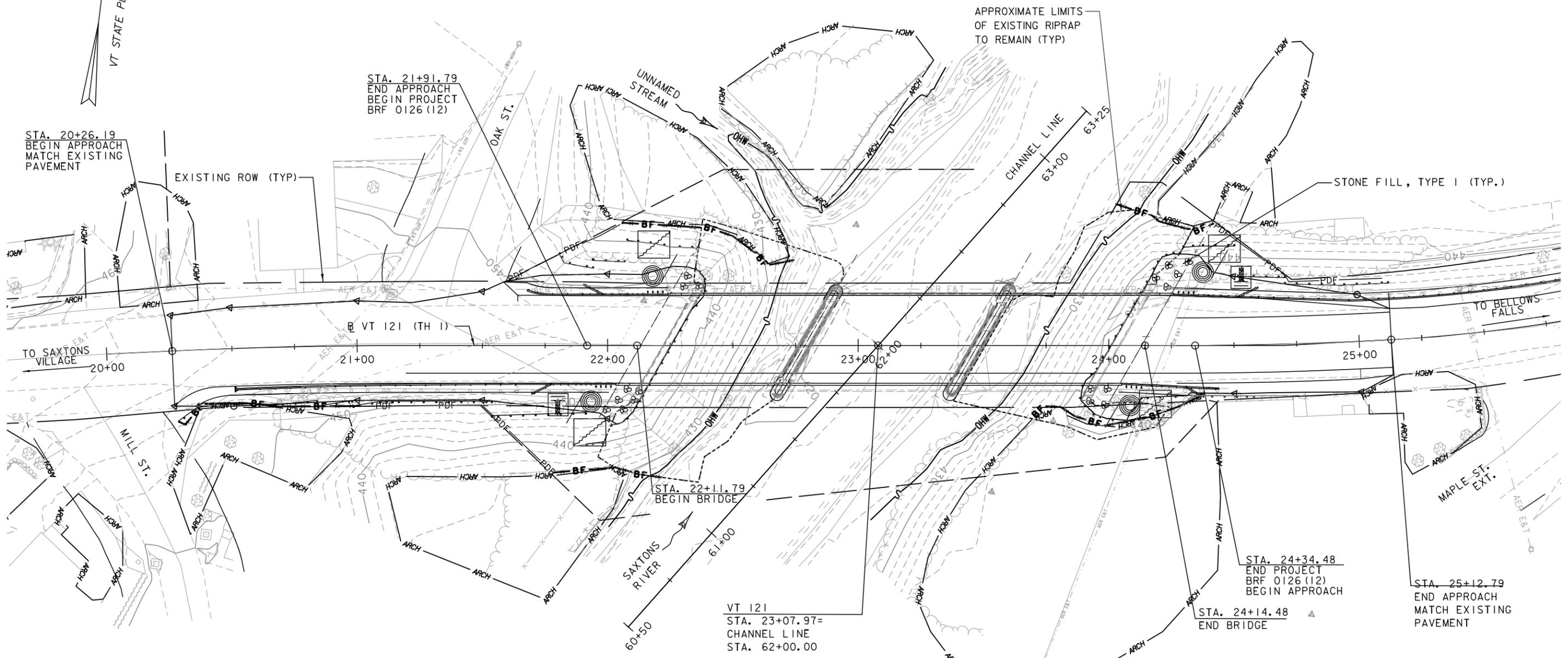
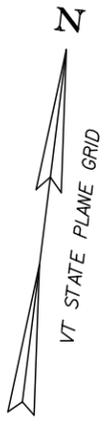
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END PROJECT
BRF 0126 (12)
BEGIN APPROACH

STA. 24+14.48
END BRIDGE

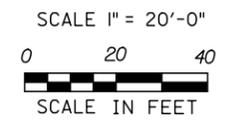
STA. 25+12.79
END APPROACH
MATCH EXISTING
PAVEMENT



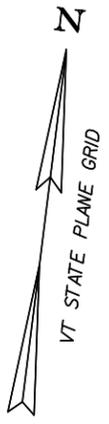
COLD RIVER BRIDGES, LLC 10 IANBRO IANE WALPOLE, NH TEL 603-756-9300 FAX 603-756-9303	
Rockingham BRF 0126 (12)	
ESCP PLAN EXISTING CONDITIONS	SHEET NUMBER 2
DATE:	SCALE: NTS



- LEGEND:
-  STABILIZED CONSTRUCTION ENTRANCE (AS NEEDED)
 -  SURFACE ROUGHENING



<p>COLD RIVER BRIDGES, LLC 10 IANBRO IANE WALPOLE, NH TEL 603-756-9300 FAX 603-756-9303</p>	
<p>ROCKINGHAM BRF 0126(12)</p>	
<p>ESCP PLAN CONSTRUCTION PLANS</p>	<p>SHEET NUMBER 3</p>
DATE:	SCALE: NTS



STA. 20+26.19
BEGIN APPROACH
MATCH EXISTING
PAVEMENT

STA. 21+91.79
END APPROACH
BEGIN PROJECT
BRF 0126 (12)

EXISTING
ROW (TYP.)

OAK ST.

UNNAMED
STREAM

CHANNEL LINE
63+00

VT RTE 121
TO SAXTONS VILLAGE

VT 121 (TH 1)

VT RTE 121
TO BELLOWS FALL

20+00

21+00

22+00

23+00

24+00

25+00

MILL ST.

STA. 22+11.79
BEGIN BRIDGE

SAXTONS
RIVER

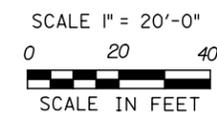
STONE FILL,
TYPE I (TYP.)

STA. 24+34.48
END PROJECT
BRF 0126 (12)
BEGIN APPROACH

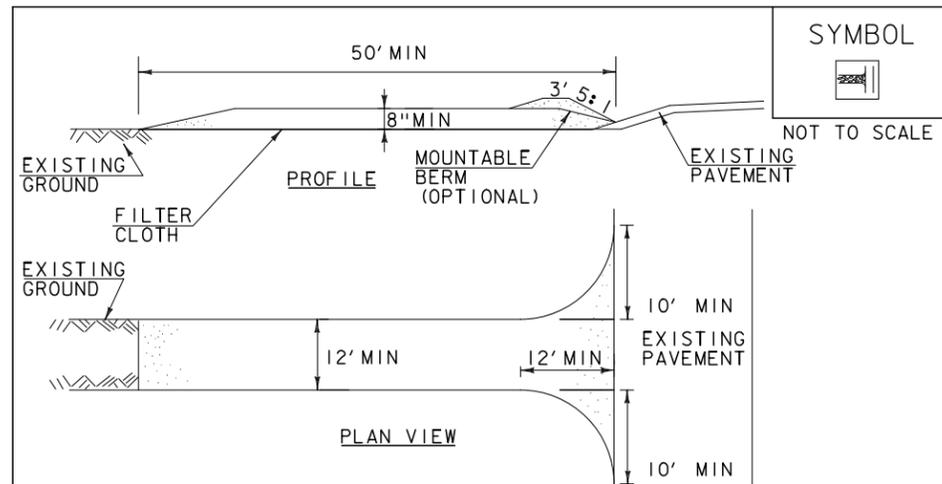
STA. 25+12.79
END APPROACH
MATCH EXISTING
PAVEMENT

VT 121
STA. 23+07.97=
CHANNEL LINE
STA. 62+00.00

STA. 24+14.48
END BRIDGE



COLD RIVER BRIDGES, LLC 10 IANBRO IANE WALPOLE, NH TEL 603-756-9300 FAX 603-756-9303	
ROCKINGHAM BRF 0126(12)	
ESCP PLAN FINAL CONDITIONS	SHEET NUMBER 4
DATE:	SCALE: NTS



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' 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.

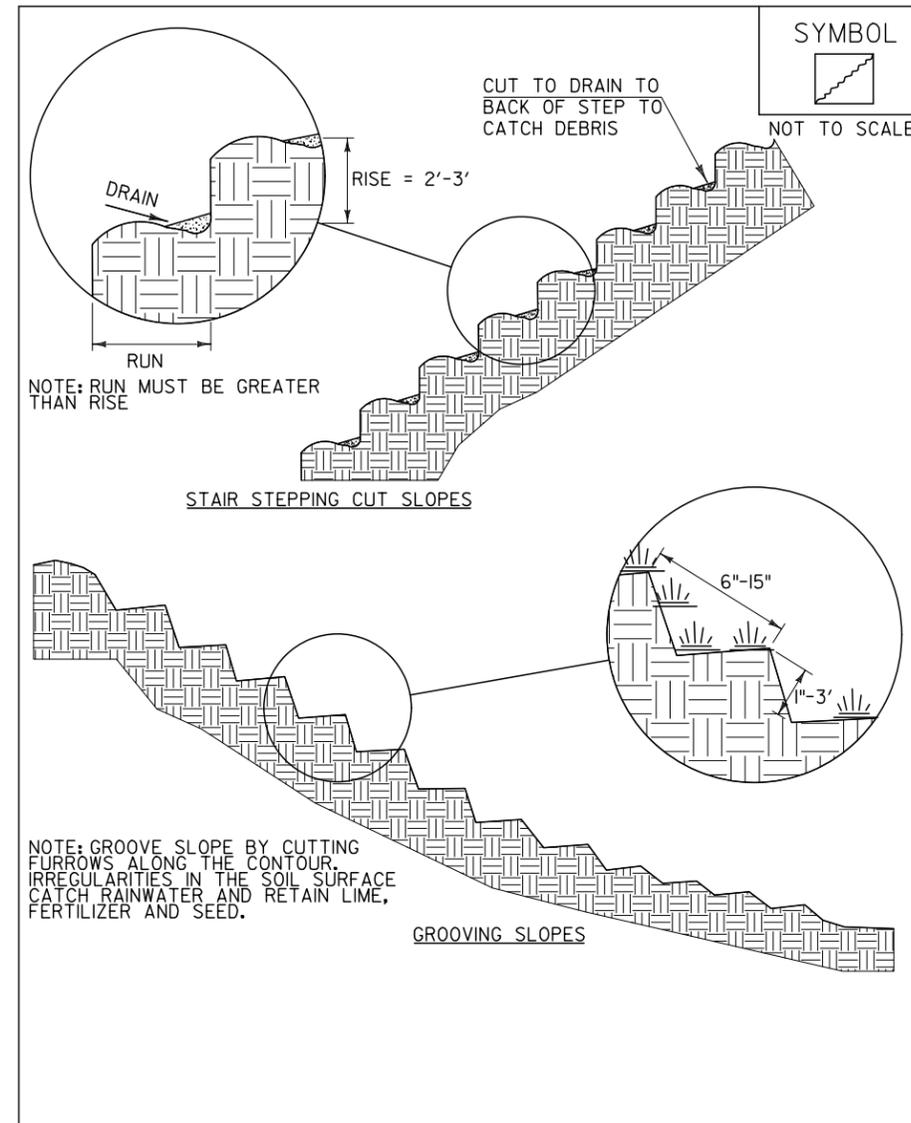
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

SYMBOL



NOT TO SCALE



SYMBOL



NOT TO SCALE

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.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

COLD RIVER BRIDGES, LLC
10 IANBRO IANE
TEL 603-756-9300 WALPOLE, NH FAX 603-756-9303

ROCKINGHAM BRF (12)

ESCP PLAN

SHEET NUMBER

6

DATE: scale: NTS

VAOT RURAL AREA MIX					
		LBS/AC			
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
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					
		LBS/AC			
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
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

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ROCKINGHAM BRF 0126 (12)

ESCP PLAN

SHEET NUMBER

7

DATE: scale: NTS