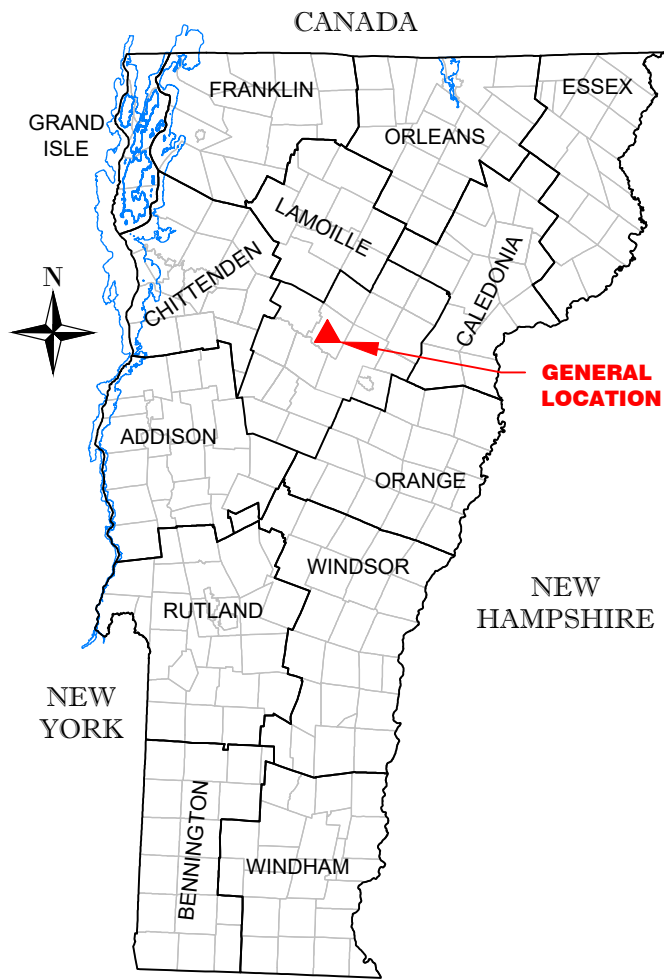
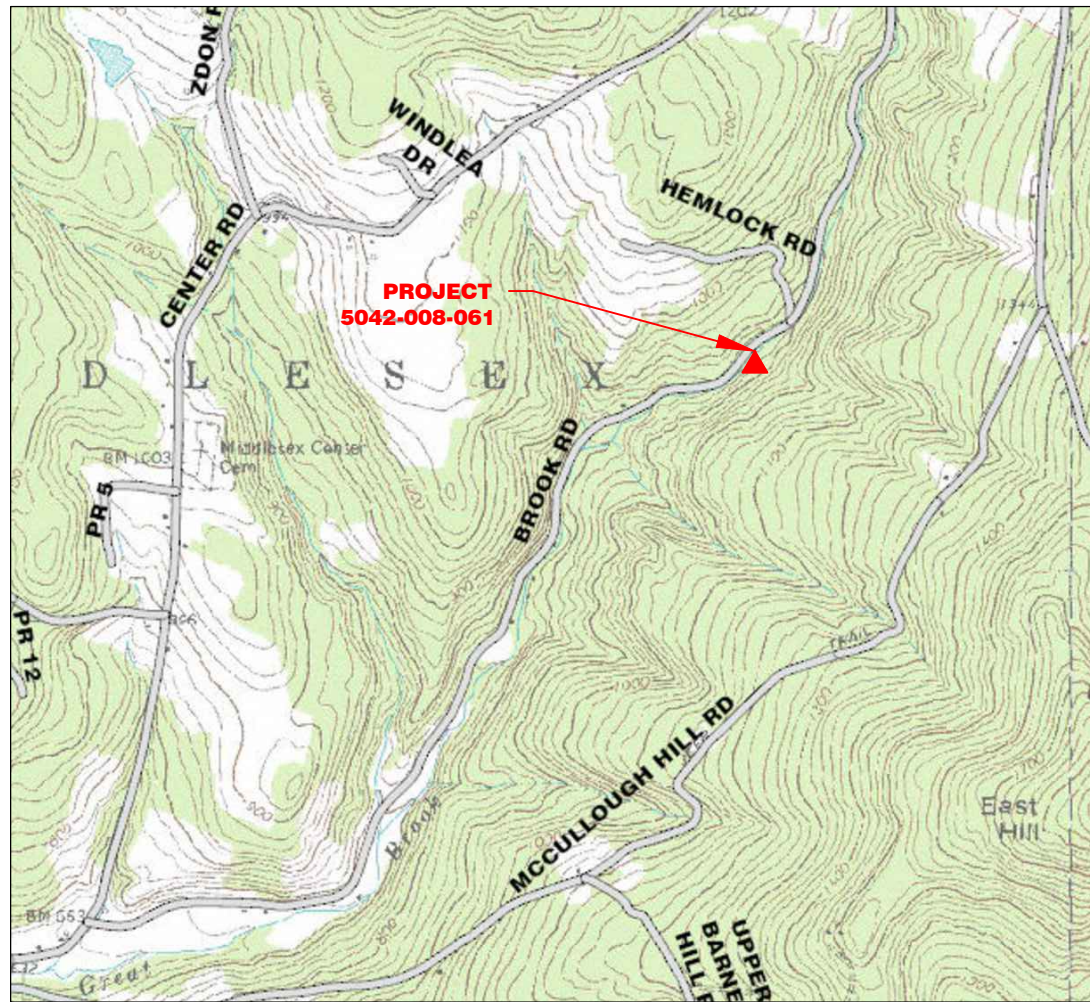


EWP PROJECT 5042-008-061 STREAMBANK PROTECTION 255 BROOK ROAD, MIDDLESEX



MASSACHUSETTS

GENERAL LOCATION MAP
(NOT TO SCALE)



LOCATION MAP
(SCALE: 1" = 2,000')

TOTAL PROJECT LENGTH $\approx$ 255'
RIPRAP REVETMENT LENGTH $\approx$ 230'

**ROBERT
THOMPSON**

Digitally signed by ROBERT
THOMPSON
Date: 2026.06.17 06:31:52
-04'00'

APPROVER DIGITAL SIGNATURE

NO.	DATE	BY	DESCRIPTION
REVISIONS			

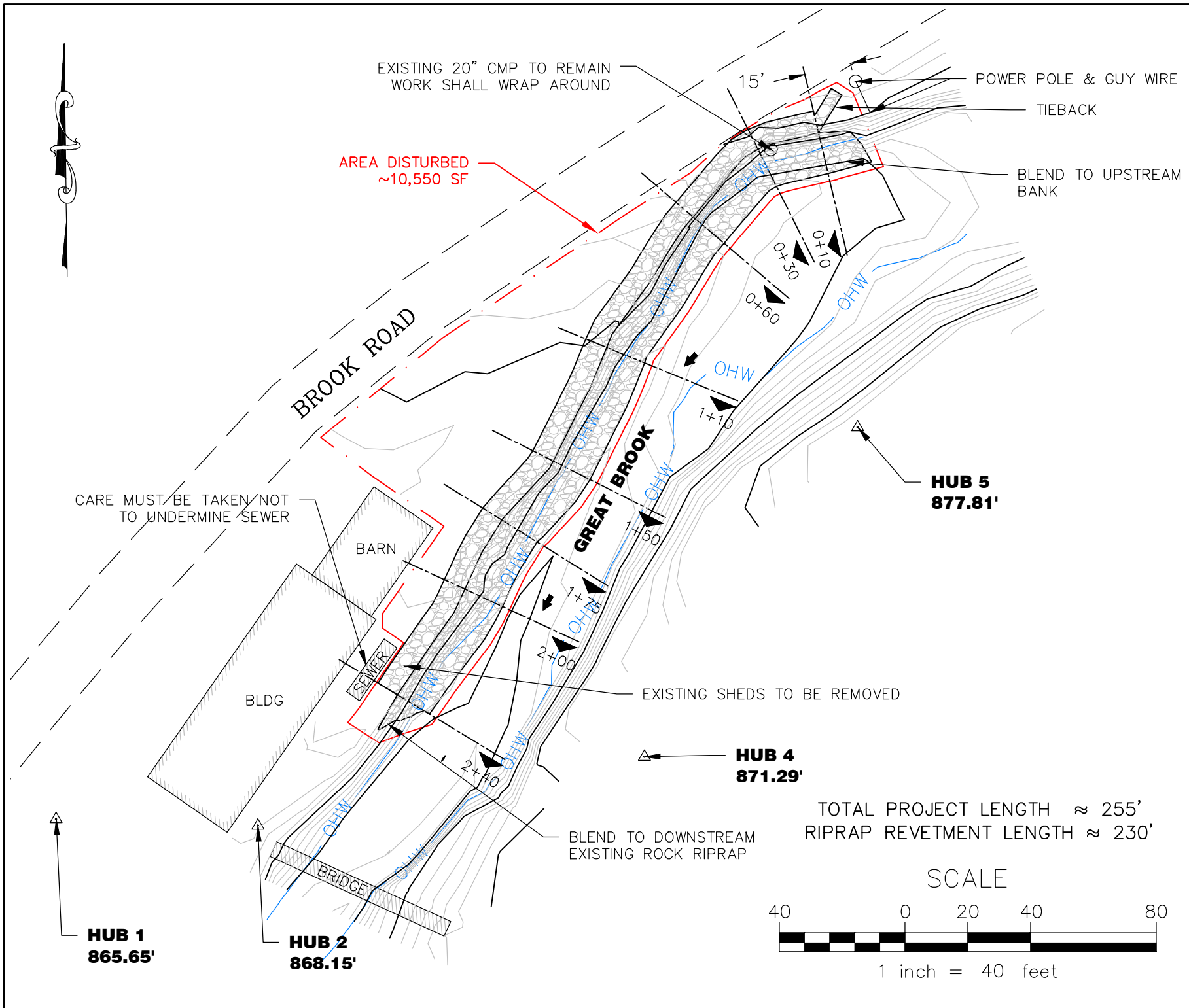
Date	6/26
Designed	SIB
Drawn	SIB
Checked	R. Thompson
Approved by	R. Thompson



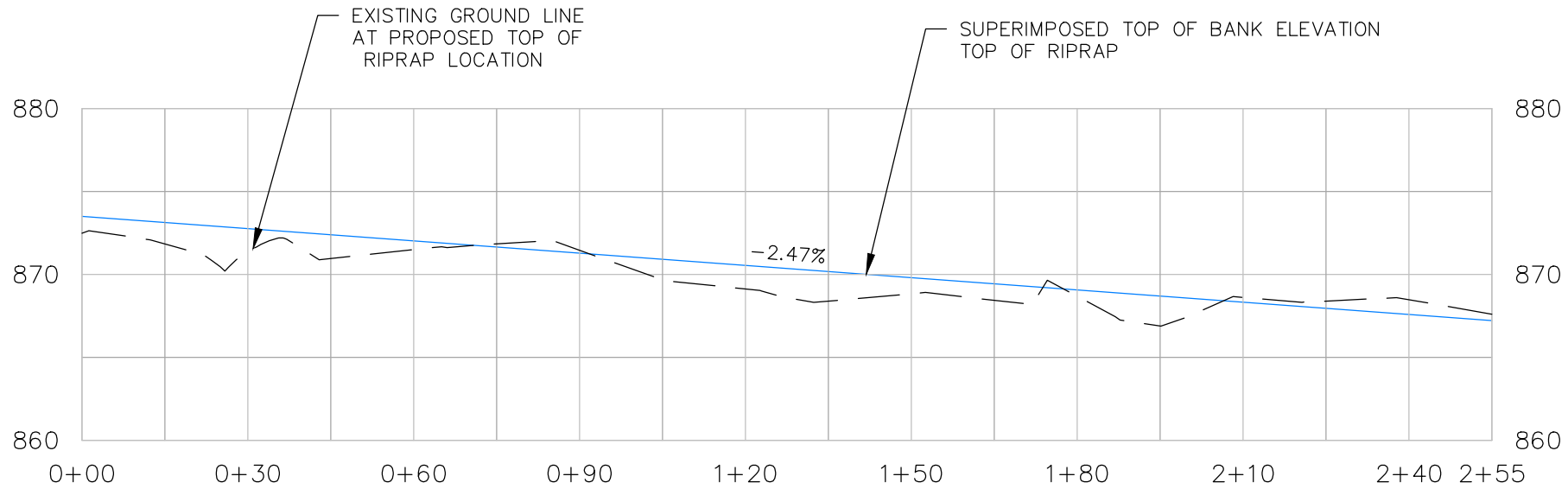
HAZARD CLASS SIGNIFICANT	JOB CLASS VI
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EWP PROJECT 5042-008-061
STREAMBANK PROTECTION
TOWN OF MIDDLESEX
LOCATION MAP
VERMONT
MIDDLESEX

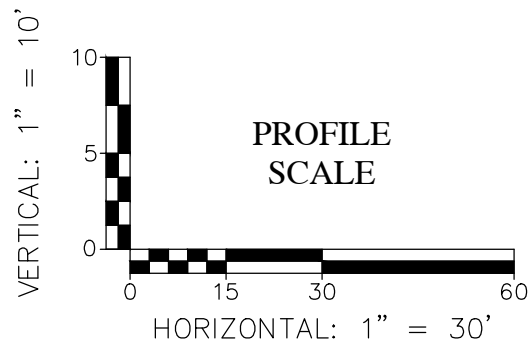
File Name
DSR Number 5042-008-061
Sheet 1 of 12



EWP PROJECT 5042-008-061 STREAMBANK PROTECTION TOWN OF MIDDLESEX PLAN VIEW W/O AERIAL		HAZARD CLASS SIGNIFICANT	 United States Department of Agriculture	Designed	SIB	Date	6/26
MIDDLESEX VERMONT				Drawn	SIB	6/26	
JOB CLASS VI		Natural Resources Conservation Service		Checked	R. Thompson	6/2026	
File Name				Approved by	R. Thompson	6/2026	
DSR Number							
5042-008-061							
Sheet 3 of 12							



RIPRAP PROFILE



Date	6/26
Designed	SIB
Drawn	SIB
Checked	R. Thompson
Approved by	R. Thompson
Date	6/26
Checked	6/2026
Approved by	6/2026

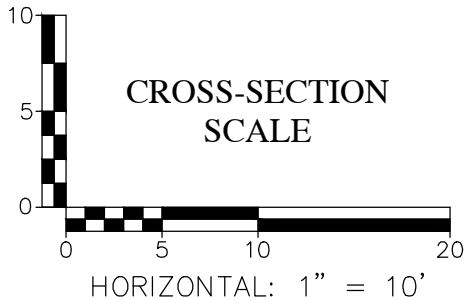
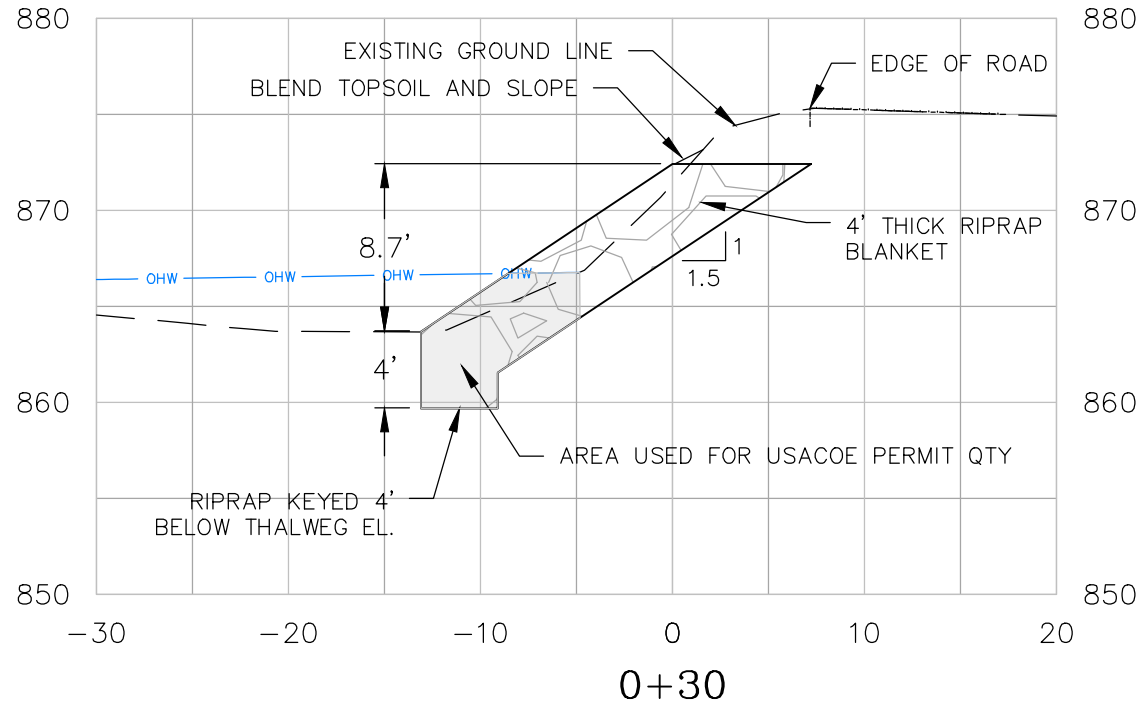
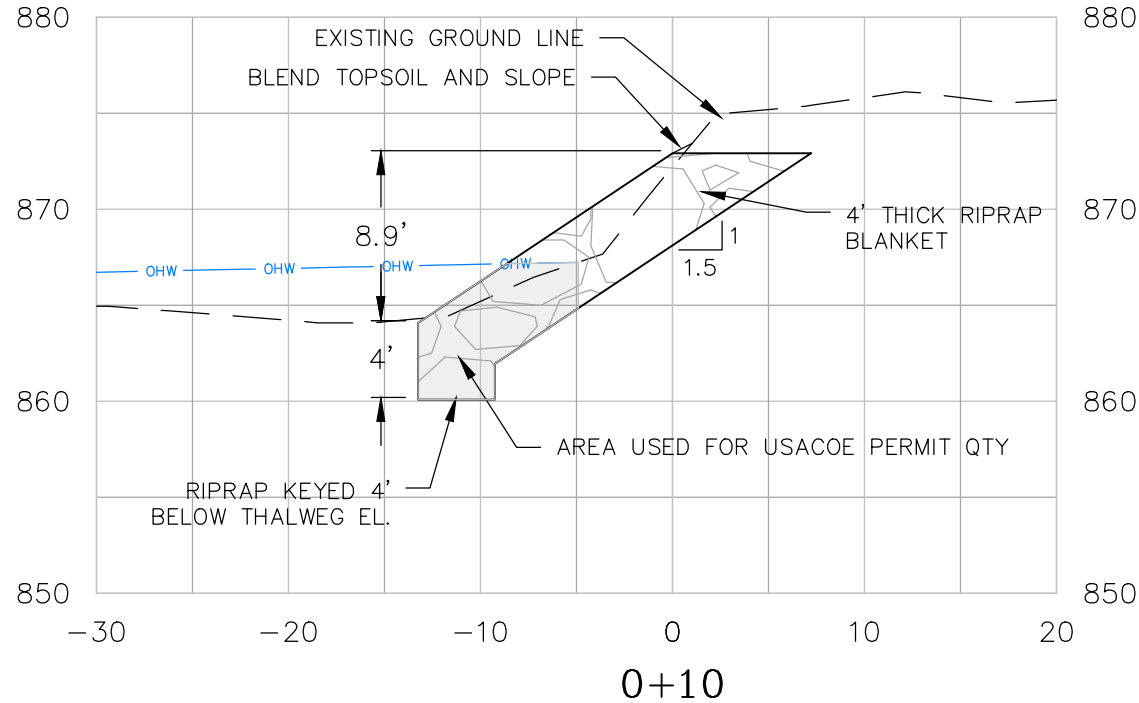
USDA United States Department of Agriculture	Natural Resources Conservation Service
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HAZARD CLASS SIGNIFICANT	JOB CLASS VI
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EWP PROJECT 5042-008-061 STREAMBANK PROTECTION TOWN OF MIDDLESEX PROFILE	VERMONT MIDDLESEX
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File Name
DSR Number 5042-008-061
Sheet 4 of 12

VERTICAL: 1" = 10'



Date	6/26
Designed	SIB
Drawn	SIB
Checked	R. Thompson
Approved by	R. Thompson

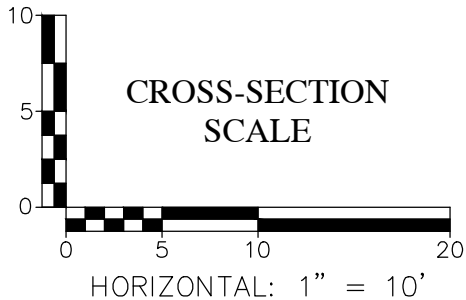
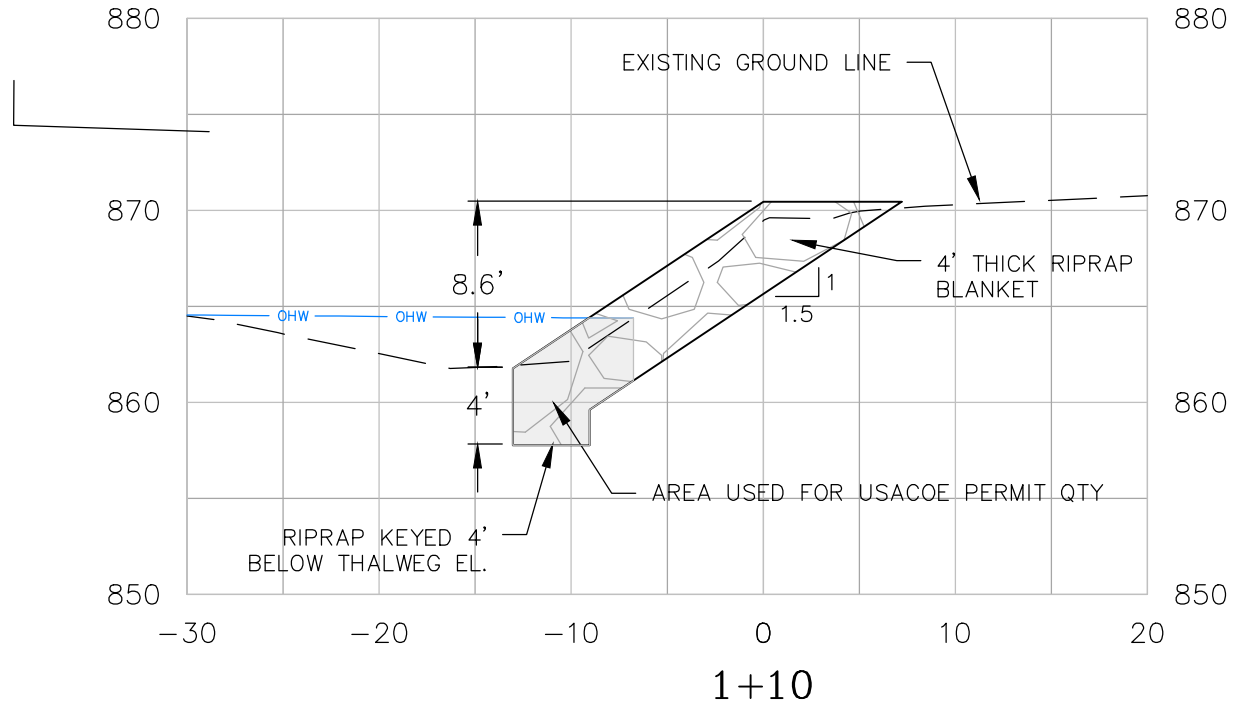
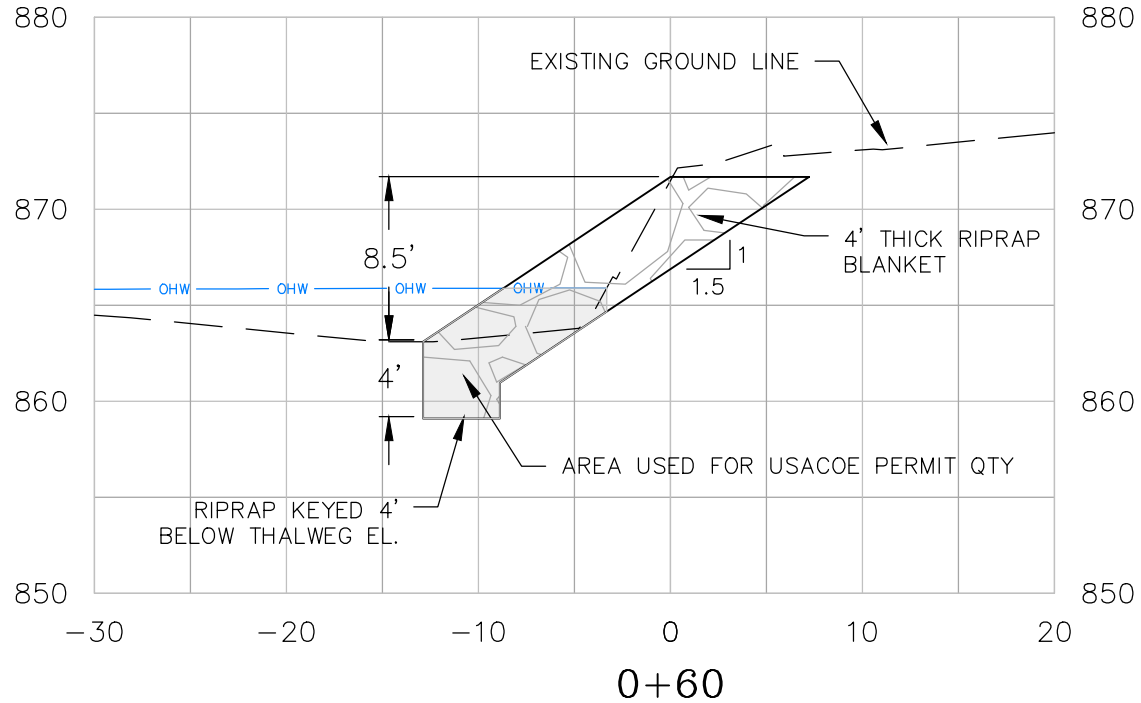
USDA United States Department of Agriculture

Natural Resources Conservation Service

HAZARD CLASS SIGNIFICANT
JOB CLASS VI

EWP PROJECT 5042-008-061 STREAMBANK PROTECTION TOWN OF MIDDLESEX CROSS SECTIONS (1)	VERMONT MIDDLESEX
File Name	
DSR Number 5042-008-061	
Sheet 5 of 12	

VERTICAL: 1" = 10'



Date	6/26
Designed	SIB
Drawn	SIB
Checked	R. Thompson
Approved by	R. Thompson
	6/2026
	6/2026

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HAZARD CLASS
SIGNIFICANT

JOB CLASS
VI

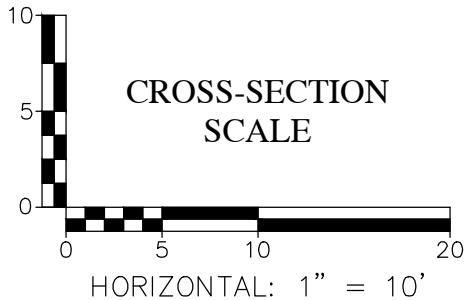
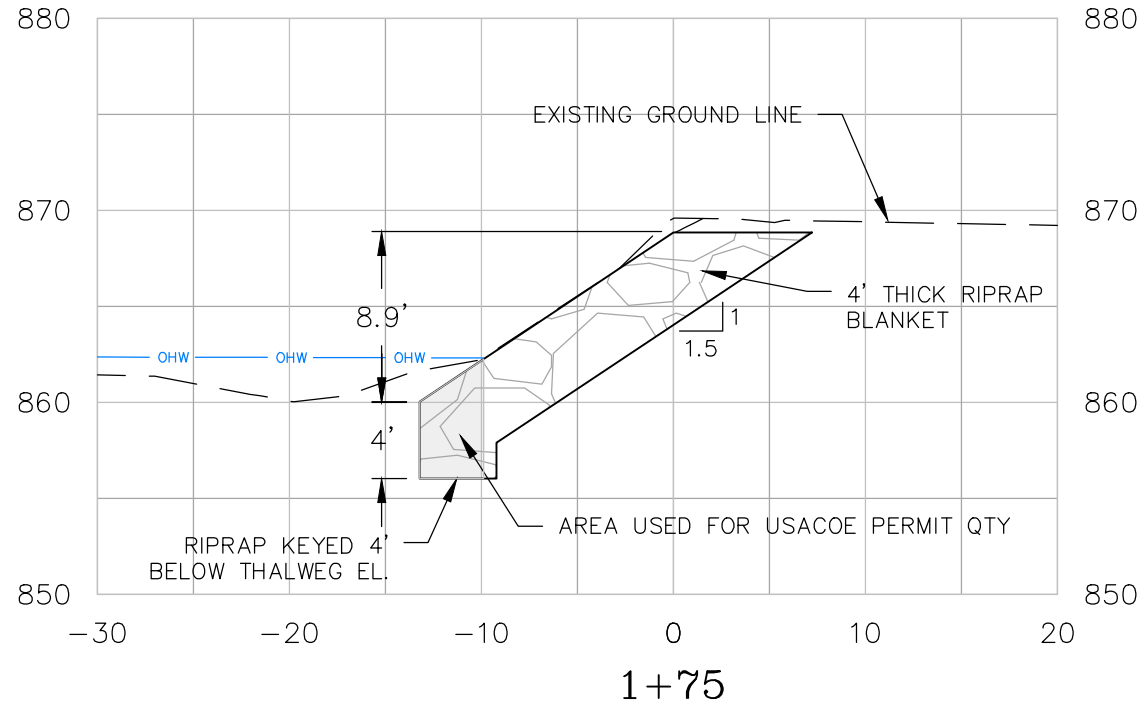
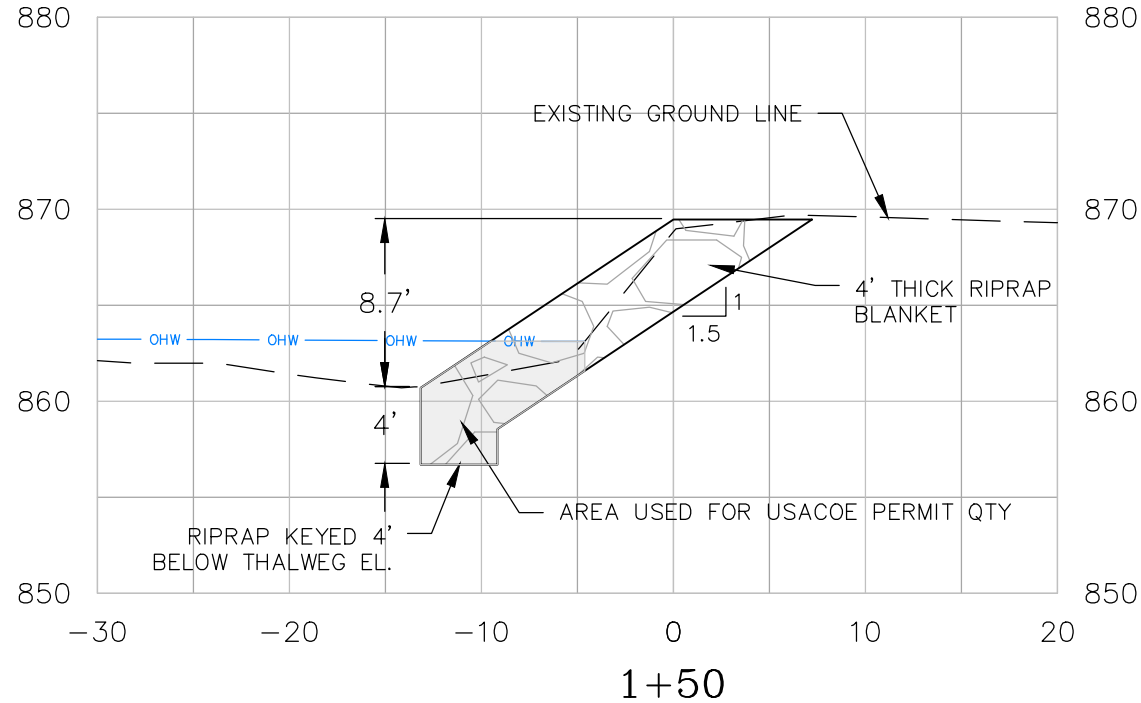
EWP PROJECT 5042-008-061
STREAMBANK PROTECTION
TOWN OF MIDDLESEX
CROSS SECTIONS (2)

VERMONT

MIDDLESEX

File Name
DSR Number 5042-008-061
Sheet 6 of 12

VERTICAL: 1" = 10'



Date	6/26
Designed	SIB
Drawn	SIB
Checked	R. Thompson
Approved by	R. Thompson
	6/2026
	6/2026



HAZARD CLASS
SIGNIFICANT

JOB CLASS
VI

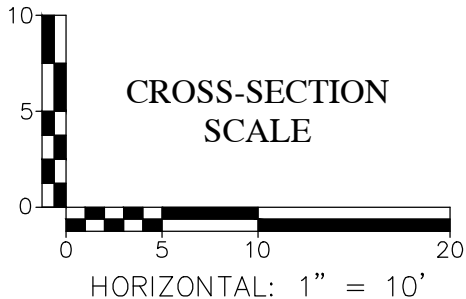
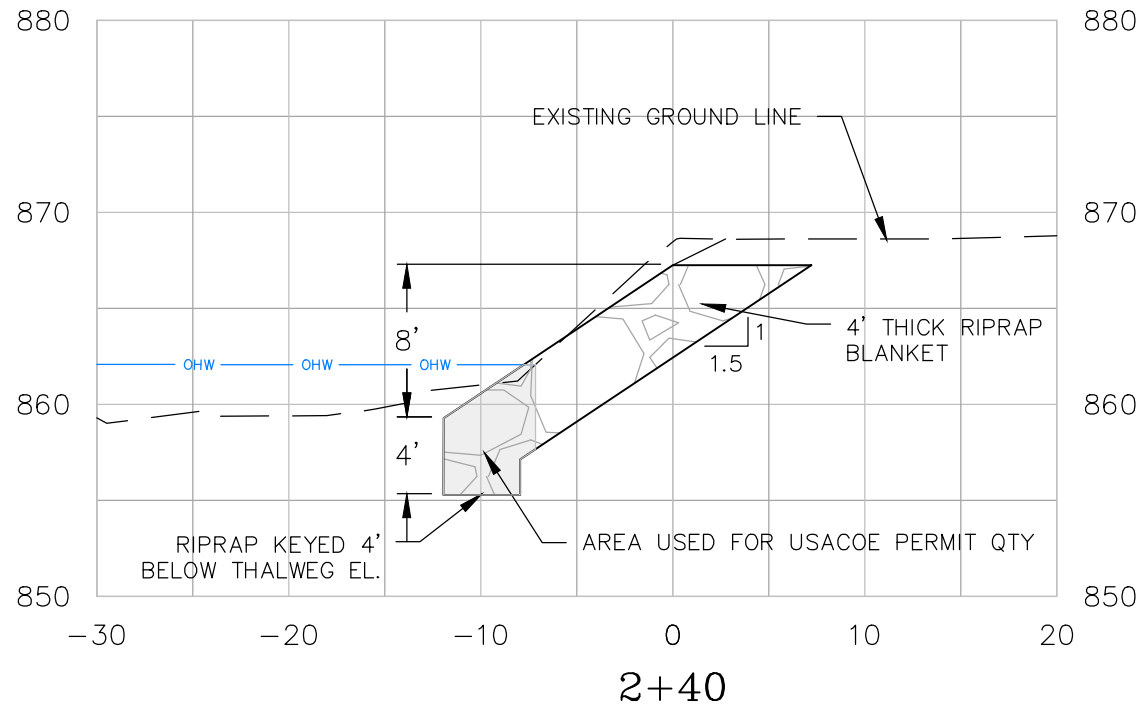
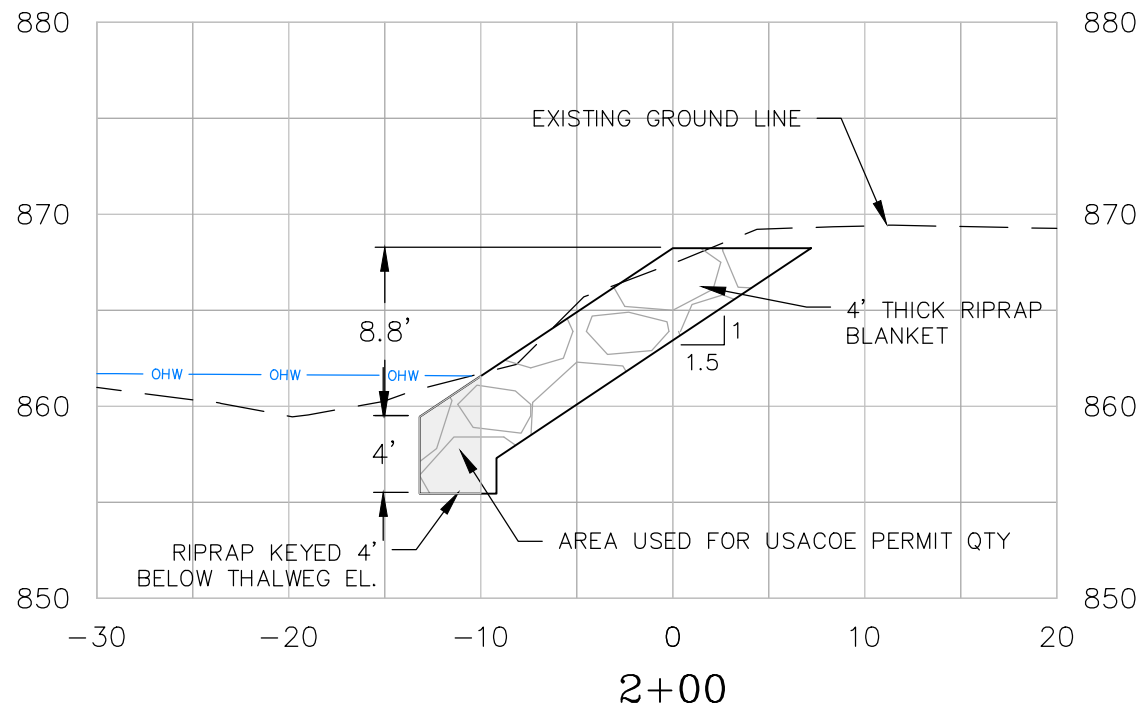
EWP PROJECT 5042-008-061
STREAMBANK PROTECTION
TOWN OF MIDDLESEX
CROSS SECTIONS (3)

VERMONT

MIDDLESEX

File Name
DSR Number 5042-008-061
Sheet 7 of 12

VERTICAL: 1" = 10'



Date	6/26
Designed	SIB
Drawn	SIB
Checked	R. Thompson
Approved by	R. Thompson

USDA **United States Department of Agriculture**

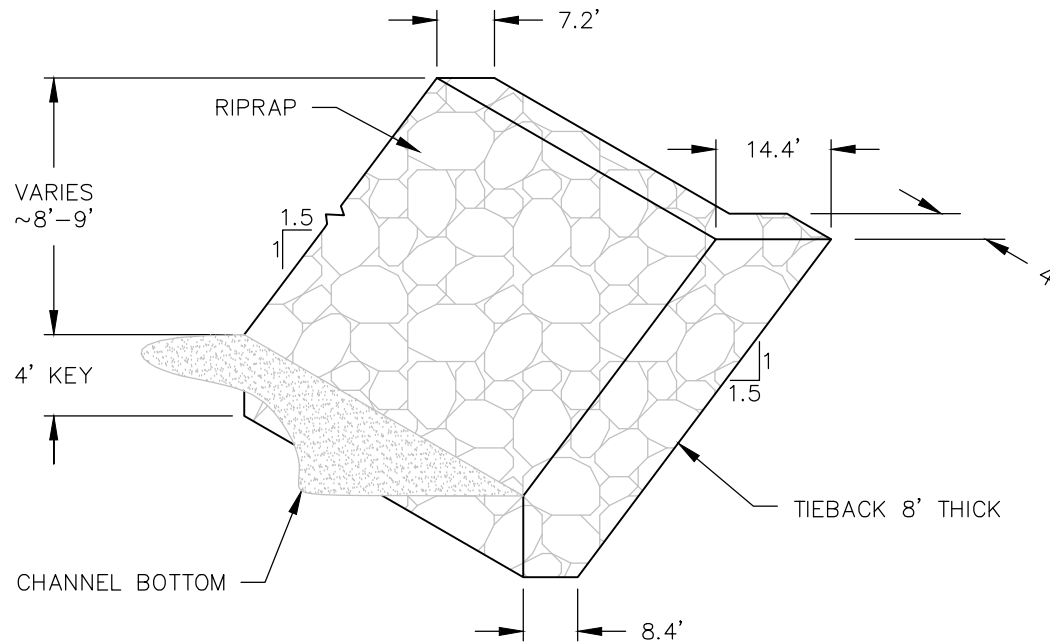
Natural Resources Conservation Service

HAZARD CLASS SIGNIFICANT	JOB CLASS VI
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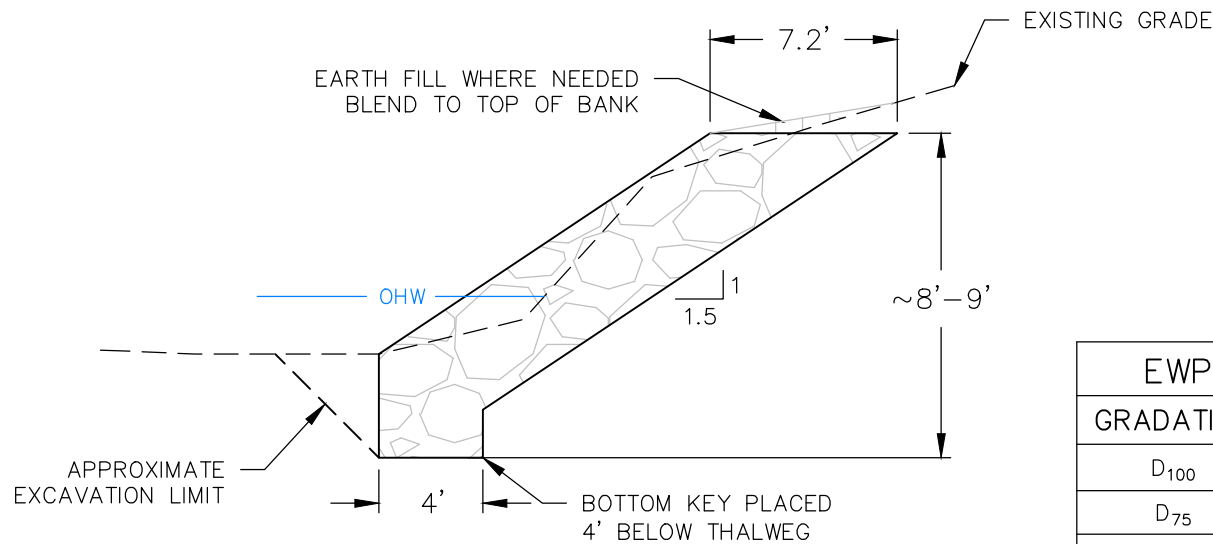
EWP PROJECT 5042-008-061
STREAMBANK PROTECTION
TOWN OF MIDDLESEX
CROSS SECTIONS (4)

MIDDLESEX VERMONT

File Name
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○ VERTICAL KEY TIEBACK DETAIL
(NOT TO SCALE)



○ TYPICAL RIPRAP SECTION
(NOT TO SCALE)

EWP 4' RIPRAP	
GRADATION	SIZE
D ₁₀₀	48"
D ₇₅	41"
D ₅₀	31"
D ₁₀	14"

Date 6/26
Designed SIB
Drawn SIB
Checked R. Thompson
Approved by R. Thompson

United States Department of Agriculture
USDA
Natural Resources Conservation Service

HAZARD CLASS SIGNIFICANT
JOB CLASS VI

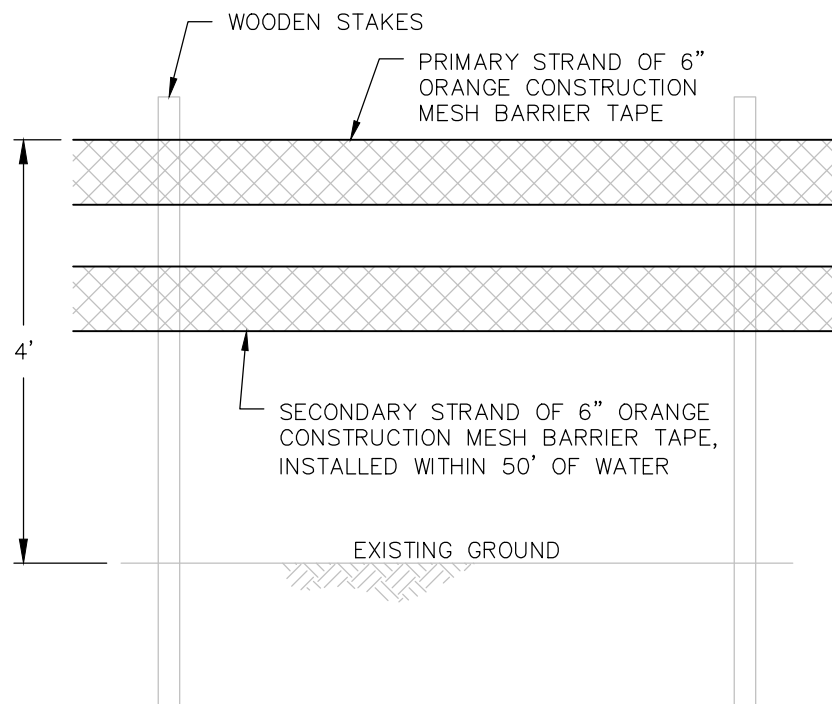
EWP PROJECT 5042-008-061
STREAMBANK PROTECTION
TOWN OF MIDDLESEX
TYPICALS
VERMONT
MIDDLESEX

File Name
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VT DEC – EROSION PREVENTION AND SETTLEMENT CONTROL (EPSC) REQUIREMENTS

SEE "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" HANDBOOK

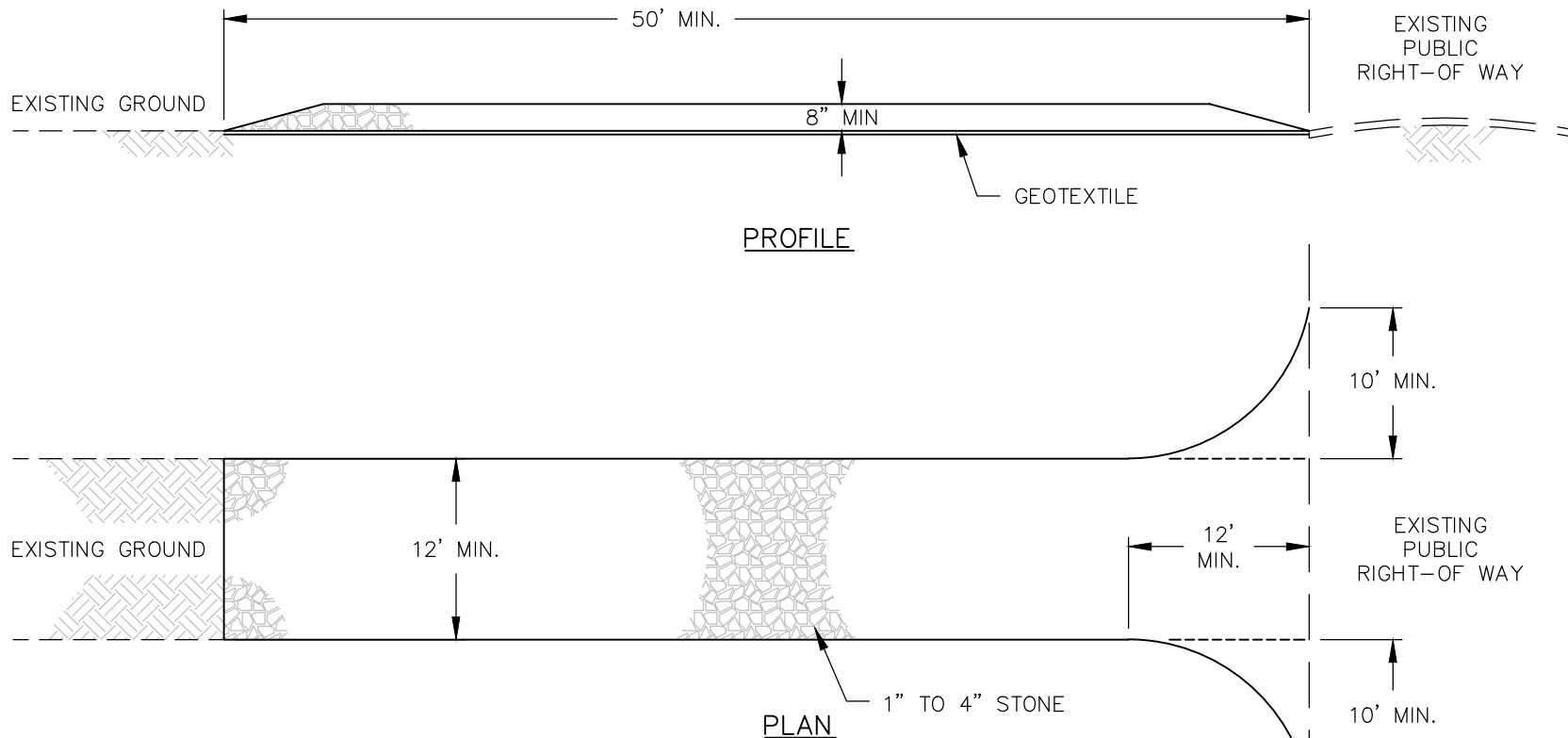
1. DEMARCATe APPROVED LIMITS OF DISTURBANCE – UTILIZING HIGH VISIBILITY PERIMETER FENCING, BARRIER TAPE OR FLAGGING TIED TO TREES AND/OR STAKES. (LOW RISK SITE HANDBOOK PAGES 3–4 AND DETAIL BELOW)
2. POLLUTION PREVENTION – LIMIT EXPOSURE OR RAINFALL AND STORMWATER TO MATERIALS ON SITE THAT MAY CREATE A DISCHARGE OF POLLUTANTS. (LOW RISK SITE HANDBOOK PAGES 5–6)
3. LIMIT THE CONCURRENT EARTH DISTURBANCE TO AS LITTLE AS POSSIBLE, NOT TO EXCEED THE AMOUNT APPROVED IN THE EPSC AUTHORIZATION. (LOW RISK SITE HANDBOOK PAGES 7–8)
4. SITE STABILIZATION – ALL DISTURBED AREAS SHALL HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF THE INITIAL DISTURBANCE, EXCEPT: (LOW RISK SITE HANDBOOK PAGES 9–12)
 - 4.1. STABILIZATION IS NOT REQUIRED IN SELF CONTAINED EXCAVATIONS
 - 4.2. IF RUNOFF PRODUCING PRECIPITATION IS NOT FORECASTED AND CONSTRUCTION ACTIVITIES WILL CONTINUE WITHIN 24 HRS.
5. STABILIZED CONSTRUCTION ACCESS – CONSTRUCT A STONE CONSTRUCTION ACCESS TO PREVENT SEDIMENT FROM BEING TRACKED INTO THE ROADWAY (LOW RISK SITE HANDBOOK PAGES 14–16 AND DETAIL BELOW)
6. INSTALL PERIMETER CONTROLS – SILT FENCE, EROSION CONTROL BERMS, FILTER SOCKS OR STRAW WATTLES SHALL BE INSTALLED (WHEN APPROPRIATE) ON THE DOWNHILL SIDE OF CONSTRUCTION. (LOW RISK SITE HANDBOOK PAGES 21–32 AND DETAILS BELOW)
7. FOLLOW WINTER CONSTRUCTION PRACTICES (OCT 15 – APRIL 15), IF APPLICABLE (LOW RISK SITE HANDBOOK PAGES 49–54)
8. INSTALL PERMANENT CONTROLS – FINAL STABILIZATION.



LIMIT OF DISTURBANCE DEMARCATION (NOT TO SCALE)

NOTE: FOR OTHER DEMARCATION OPTIONS
SEE EPSC LOW RISK HANDBOOK.

Date		Designed	VT DEC	Drawn	MJL	Checked	R. Thompson	Approved by	R. Thompson
							6/2026		6/2026
		United States Department of Agriculture Natural Resources Conservation Service							
HAZARD CLASS		SIGNIFICANT							
JOB CLASS		VI							
EWP PROJECT 5042-008-061 STREAMBANK PROTECTION TOWN OF MIDDLESEX EPSC NOTES & DETAILS		VERMONT MIDDLESEX							
File Name									
DSR Number 5042-008-061									
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CONSTRUCTION NOTES

1. STONE SIZE SHALL BE BETWEEN 1" TO 4".
2. THE CONSTRUCTED ENTRANCE MUST MEET OR EXCEED THE MINIMUM DIMENSIONS AND MATERIAL SPECIFICATIONS SHOWN.
3. APPROPRIATE TRANSITIONS BETWEEN THE ENTRANCE AND THE RIGHTS-OF-WAY MUST BE USED.
4. GEOTEXTILE FABRIC MUST BE CLASS IV WOVEN AND MEET OR EXCEED MATERIAL SPECIFICATIONS LISTED IN TABLE 1 OF CONSTRUCTION SPEC 54.
5. ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE TRANSPORTATION OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE OCCASIONAL CLEANOUT AND REPAIR OF ENTRANCE.
6. WHEN NECESSARY, WHEELS SHALL BE CLEANED OF SEDIMENT AND DEBRIS TO MINIMIZE TRACKING OF SUCH ONTO PUBLIC RIGHTS-OF-WAY. ANY SEDIMENT TRACKED, SPILLED, OR WASHED ONTO THE RIGHTS-OF-WAY MUST BE CLEANED OFF IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE (NOT TO SCALE)

Date		VT DEC	08/2022	6/2026	6/2026
Designed		Drawn	Checked	Approved by	
R. Thompson		R. Thompson	R. Thompson	R. Thompson	
HAZARD CLASS SIGNIFICANT		JOB CLASS VI			
EWP PROJECT 5042-008-061 STREAMBANK PROTECTION TOWN OF MIDDLESEX EPSC CONSTRUCTION ENTRANCE MIDDLESEX VERMONT					
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United States
Department of
Agriculture
USDA
Natural Resources
Conservation Service

CONSTRUCTION NOTES

1. IT IS THE SPONSORS RESPONSIBILITY TO OBTAIN ALL PERMITS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO FOLLOW ALL PERMIT REQUIREMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKEOUT OF THE WORK, AND MEETING GRADES AND ELEVATIONS REQUIRED BY THE DRAWINGS.
4. NOTIFY THE DIG SAFE CENTER AT (888) 344-7233 AT LEAST 48 HOURS BEFORE STARTING EXCAVATION WORK.
5. ALL WORK WILL BE DONE IN ACCORDANCE WITH ALL OSHA AND VOSHA RULES AND REGULATIONS.
6. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE SPONSOR MAPS DESIGNATING EACH PROPOSED DISPOSAL AREA. THE AREAS MARKED ON THE MAPS WILL REQUIRE NEPA, CULTURAL RESOURCE, AND BAT HABITAT REVIEWS. TO BE COMPLETED BY NRCS.
 - a. MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR FLOODPLAIN WITH ELEVATIONS BELOW THE 100 YEAR FLOOD.
6. CONTRACTOR SHALL DESIGNATE THE SOURCE OF RIPRAP AND PROVIDE EVIDENCE OF THE SOURCE ACCEPTABILITY TO THE ON SITE NRCS REPRESENTATIVE AT LEAST 24 HOURS IN ADVANCE OF DELIVERY. UNDER NO CIRCUMSTANCES SHALL THE ROCK USED CONTAIN SERPENTINE OR ASBESTOS
7. INSTALL 4' FOOT THICK RIPRAP REVETMENT WITH A 4' KEY.
8. ALL AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL OR GRUBBING MATERIAL APPLIED, AND SEEDED AND MULCHED.

3" OF TOPSOIL SHALL BE APPLIED TO AREAS CURRENTLY MOWED. 3" OF TOPSOIL OR 6" OF GRUBBING MATERIAL MAY BE APPLIED IN OTHER AREAS DISTURBED BY CONSTRUCTION.

SEED MIX SHALL CONSIST OF THE FOLLOWING SPECIES AND APPLICATION RATES:

CREeping RED FESCUE	15 LBS/AC
KENTUCKY BLUEGRASS	15 LBS/AC.
REDTOP (OPTIONAL)	2 LBS/AC.
WHITE CLOVER	4 LBS/AC.

STRAW MULCH SHALL BE APPLIED AT A RATE OF 90 LBS/1,000 SF.

GRUBBING MATERIAL SHALL CONSIST OF GRUBBED OR STRIPPED EARTH MATERIAL CONTAINING ROOTS OF NATIVE STREAM BANK VEGETATION.

GRUBBING MATERIAL, FROM OUTSIDE OF THE PROJECT LIMITS, SHALL NOT CONTAIN ANY INVASIVE PLANT MATERIAL FOUND ON THE STATE INVASIVE PLANT LIST (vtinvasives.org) OR FEDERAL/STATE NOXIOUS WEED LISTS ON FILE WITH THE VERMONT AGENCY OF AGRICULTURE, FOOD, AND MARKETS (SEE CONSTRUCTION SPECIFICATION 11, PAGE 11 FOR WEB ADDRESS

9. ALL ITEMS SHALL BE CONSTRUCTED ACCORDING TO DESIGN SHEETS. CHANGES MUST BE APPROVED BY NRCS AND SPONSOR.



QUANTITIES FOR U.S.A.C.E. PERMIT

USACOE CONDITION	QUANTITY	UNITS	PERMIT?
Length of Riprap below OHW >500 Feet	240	LF	NO
Volume of Riprap below OHW >1.0 CY/Foot	0.834	CY/Foot	NO
USACOE Permit Required?			NO

APPROXIMATE QUANTITIES

NO.	ITEMS	QUANTITY	UNITS	SPECIFICATION
1	EXCAVATION	685	CY	11
2	RIPRAP, 4FT THICK	815	CY	44
3	TOPSOIL	2	CY	
4	SEEDING	0.25	AC	52-7B

NOTES:

- EXCAVATION IS SUBSIDIARY TO RIPRAP. ASSUMES A 1.5:1 SLOPE OUTSIDE THE RIPRAP LIMITS
- TOPSOIL IS SUBSIDIARY TO SEEDING & MULCHING.

Date	6/26	SIB	6/26	Checked	R. Thompson	Approved by	R. Thompson
United States Department of Agriculture				Natural Resources Conservation Service			
HAZARD CLASS SIGNIFICANT				JOB CLASS VI			
EWP PROJECT 5042-008-061 STREAMBANK PROTECTION TOWN OF MIDDLESEX NOTES & BOM							
VERMONT							
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