

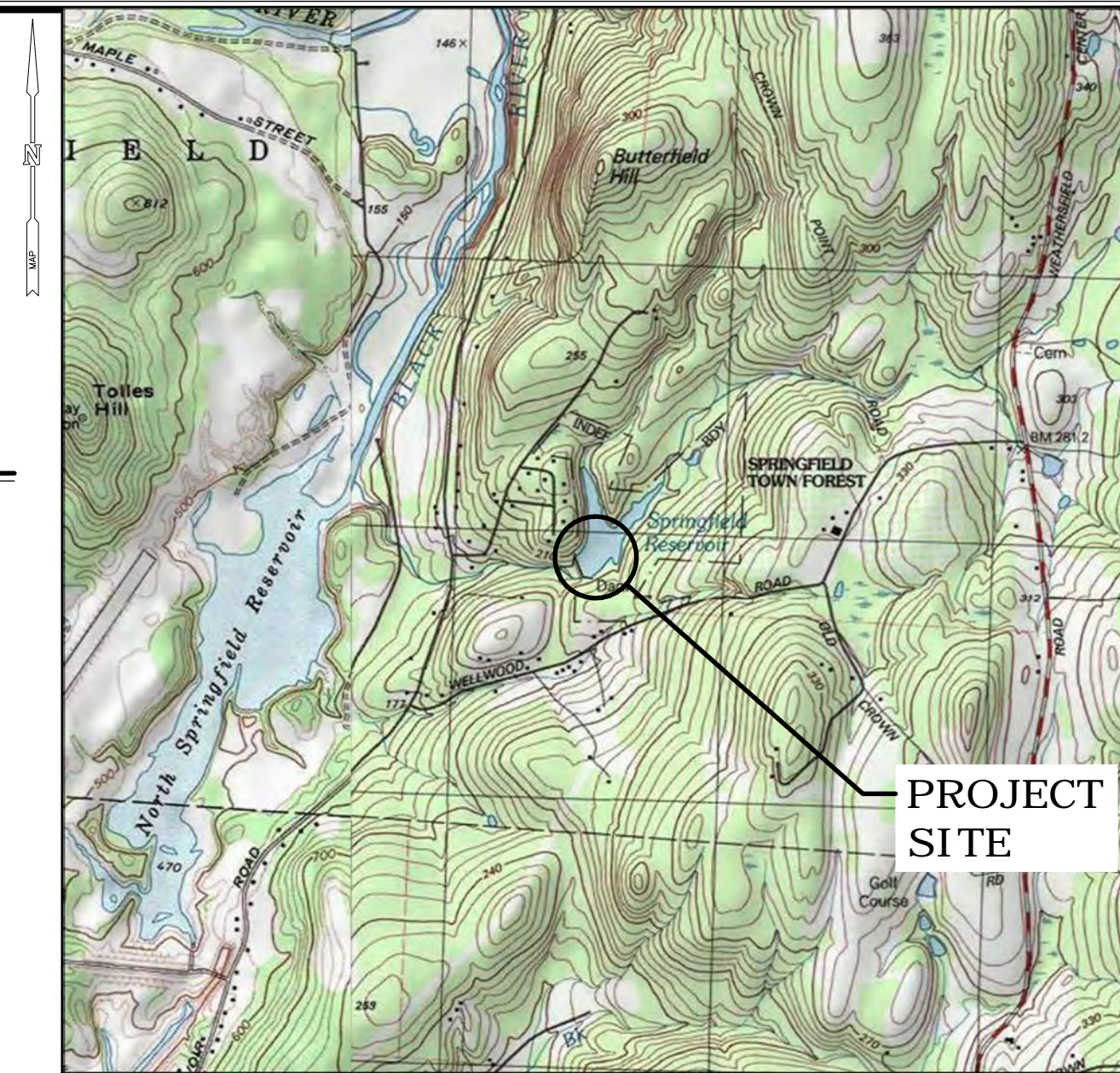
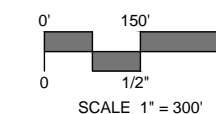
SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)

WELLWOOD ORCHARD RD
WEATHERSFIELD, VERMONT

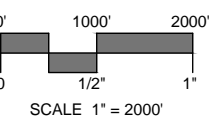
FINAL DESIGN (100%)
JANUARY 26, 2022



PROJECT SITE VICINITY MAP:



LOCATION MAP:



PREPARED FOR:

MOUNT ASCUTNEY REGIONAL COMMISSION
PO BOX 320
ASCUTNEY, VERMONT 05030



LIST OF DRAWINGS

NO.	NAME	TITLE
01	--	TITLE
02	SP1	SITE PLAN - EXISTING CONDITIONS
03	SP2	SITE PLAN - PROPOSED CONDITIONS
04	SP3	SITE PLAN - CONSTRUCTION ACCESS, SEQUENCE & WATER CONTROL
05	PRO	CHANNEL PROFILE
06	STR	STRUCTURE REMOVALS
07	XS	TYPICAL CROSS-SECTIONS
08	DET	DETAILS

PREPARED BY:



IN PARTNERSHIP WITH:



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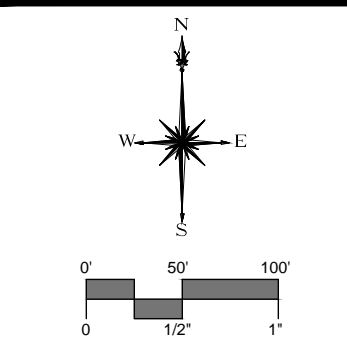
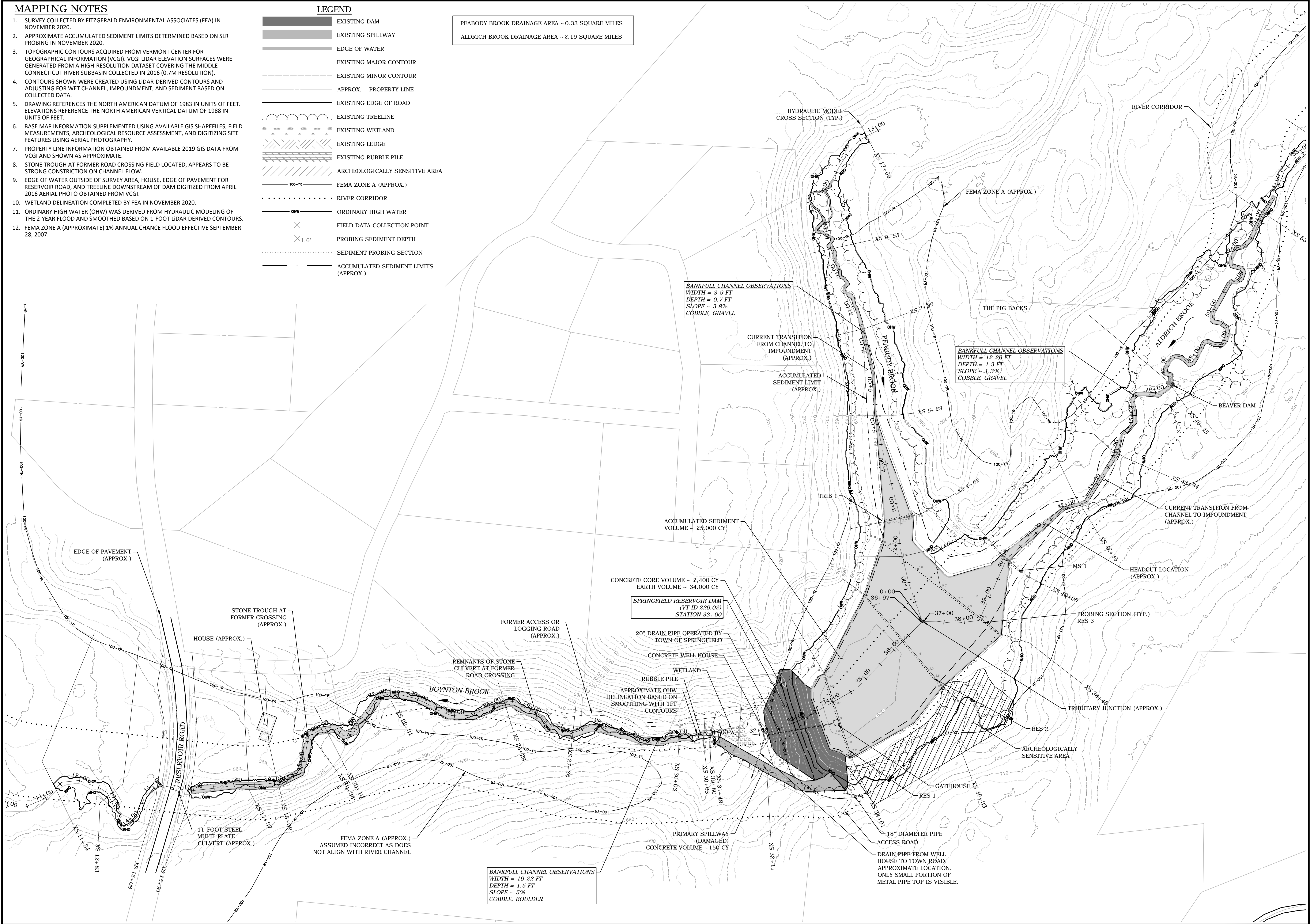
MAPPING NOTES

1. SURVEY COLLECTED BY FITZGERALD ENVIRONMENTAL ASSOCIATES (FEA) IN NOVEMBER 2020.
2. APPROXIMATE ACCUMULATED SEDIMENT LIMITS DETERMINED BASED ON SLR PROBING IN NOVEMBER 2020.
3. TOPOGRAPHIC CONTOURS ACQUIRED FROM VERMONT CENTER FOR GEOGRAPHICAL INFORMATION (VCGI). VCGI LIDAR ELEVATION SURFACES WERE GENERATED FROM A HIGH-RESOLUTION DATASET COVERING THE MIDDLE CONNECTICUT RIVER SUBBASIN COLLECTED IN 2016 (0.7M RESOLUTION).
4. CONTOURS SHOWN WERE CREATED USING LIDAR-DERIVED CONTOURS AND ADJUSTING FOR WET CHANNEL, IMPOUNDMENT, AND SEDIMENT BASED ON COLLECTED DATA.
5. DRAWING REFERENCES THE NORTH AMERICAN DATUM OF 1983 IN UNITS OF FEET. ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 IN UNITS OF FEET.
6. BASE MAP INFORMATION SUPPLEMENTED USING AVAILABLE GIS SHAPEFILES, FIELD MEASUREMENTS, ARCHEOLOGICAL RESOURCE ASSESSMENT, AND DIGITIZING SITE FEATURES USING AERIAL PHOTOGRAPHY.
7. PROPERTY LINE INFORMATION OBTAINED FROM AVAILABLE 2019 GIS DATA FROM VCGI AND SHOWN AS APPROXIMATE.
8. STONE TROUGH AT FORMER ROAD CROSSING FIELD LOCATED, APPEARS TO BE STRONG CONSTRICTION ON CHANNEL FLOW.
9. EDGE OF WATER OUTSIDE OF SURVEY AREA, HOUSE, EDGE OF PAVEMENT FOR RESERVOIR ROAD, AND TREELINE DOWNSTREAM OF DAM DIGITIZED FROM APRIL 2016 AERIAL PHOTO OBTAINED FROM VCGI.
10. WETLAND DELINEATION COMPLETED BY FEA IN NOVEMBER 2020.
11. ORDINARY HIGH WATER (OHW) WAS DERIVED FROM HYDRAULIC MODELING OF THE 2-YEAR FLOOD AND SMOOTHED BASED ON 1-FOOT LIDAR DERIVED CONTOURS.
12. FEMA ZONE A (APPROXIMATE) 1% ANNUAL CHANCE FLOOD EFFECTIVE SEPTEMBER 28, 2007.

LEGEND

- EXISTING DAM
- EXISTING SPILLWAY
- EDGE OF WATER
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- APPROX. PROPERTY LINE
- EXISTING EDGE OF ROAD
- EXISTING TREELINE
- EXISTING WETLAND
- EXISTING LEDGE
- EXISTING RUBBLE PILE
- ARCHEOLOGICALLY SENSITIVE AREA
- FEMA ZONE A (APPROX.)
- RIVER CORRIDOR
- ORDINARY HIGH WATER
- FIELD DATA COLLECTION POINT
- PROBING SEDIMENT DEPTH
- SEDIMENT PROBING SECTION
- ACCUMULATED SEDIMENT LIMITS (APPROX.)

PEABODY BROOK DRAINAGE AREA - 0.33 SQUARE MILES
ALDRICH BROOK DRAINAGE AREA - 2.19 SQUARE MILES



DESCRIPTION	DATE	BY

SITE PLAN - EXISTING CONDITIONS
SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
WELLWOOD ORCHARD RD
WEATHERFIELD, VERMONT

CMN	CMN	RKS
DESIGNED	DRAWN	CHECKED
SCALE 1" = 100'		
DATE JANUARY 26, 2022		
PROJECT NO. 5726-02		
SHEET NO. 2 OF 8		
SP1		

GENERAL NOTES

- THE PURPOSE OF THIS PROJECT IS TO REMOVE SPRINGFIELD RESERVOIR DAM ON WELLWOOD ORCHARD ROAD IN WEATHERSFIELD, VERMONT.
- THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "DIG SAFE" AT 1-888-DIG-SAFE (344-7233). THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DISTURB EXISTING UTILITIES.
- THE CONTRACTOR SHALL DESIGNATE A SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR AND HIS/HER JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLYING WITH THE JOB SPECIFICATIONS AND PERMIT REQUIREMENTS.
- ALL STORAGE AND ACCESS ROUTES, PEDESTRIAN FENCES/BARRIERS, AND LIMITS OF CLEARING SHALL BE FLAGGED BY CONTRACTOR PRIOR TO CONSTRUCTION AND APPROVED BY PROJECT ENGINEER.
- WORKING HOURS SHALL BE APPROVED BY PROJECT ENGINEER AND LANDOWNERS.
- NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES. AN EMERGENCY MANAGEMENT PLAN AND SPILL KIT WILL BE MAINTAINED ON SITE AT ALL TIMES. IN THE EVENT OF AN ACCIDENTAL RELEASE, IMMEDIATELY STOP CONSTRUCTION WORK, CONTAIN THE SPILL, AND NOTIFY THE TOWN, APPROPRIATE AUTHORITIES AND PROJECT ENGINEER. THE SPILL KIT MUST CONTAIN AT A MINIMUM A CONTAINMENT BOOM, STRAW OR OTHER ABSORBENT MATERIALS, AND BUCKETS.
- STORAGE AND/OR USE OF CHEMICALS, FUELS, OILS, GREASES, BITUMINOUS MATERIALS, SOLIDS, WASTE WASHINGS, AND CEMENT SHALL BE HANDLED APPROPRIATELY AS TO PREVENT LEACHING OR SURFACE RUNOFF INTO WETLANDS, WATERCOURSES, OR DRAINS. ALL APPROVED STORAGE FOR THESE MATERIALS MUST BE CONTAINED.
- EQUIPMENT SHALL BE REMOVED FROM THE RIVER PRIOR TO REFUELING. NO REFUELING OF EQUIPMENT ALLOWED IN THE WATER.
- ALL EQUIPMENT AND VEHICLES SHALL BE CLEANED PRIOR TO AND FOLLOWING CONSTRUCTION TO REDUCE THE POTENTIAL FOR SPREAD OF INVASIVE SPECIES AND SEDIMENT.
- THE PROJECT SITE IS SUBJECT TO FLOODING. THE CONTRACTOR SHALL MONITOR WEATHER FORECASTS AND STABILIZE THE CONSTRUCTION SITE AND REMOVE EQUIPMENT FROM FLOOD PRONE AREAS. ALL EQUIPMENT TO BE STORED ON HIGH GROUND.
- WORK SHOULD BE PERFORMED DURING LOW WATER.
- THERE SHALL BE NO CLAIMS FOR EXTRA COMPENSATION DUE TO DELAYS IN WATER CONTROL ASSOCIATED WITH HIGH WATER LEVELS FROM NATURAL EVENTS SUCH AS FLOODS.
- THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS, SIDEWALKS, AND WALKWAYS IN THE AREA FREE OF SOIL, MUD, AND CONSTRUCTION DEBRIS. CONSTRUCTION ENTRANCES MUST BE MAINTAINED AT EACH SITE ACCESS POINT. SEE PLANS AND DETAILS.

- CONTRACTOR MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL PERMITS THROUGHOUT DURATION OF PROJECT.
- ALL CONCRETE AND REINFORCING STEEL IS TO BE REMOVED FROM RIVER AND DISPOSED OF OR RECYCLED OFF SITE.
- PROPOSED LAYOUT, PROFILE, AND CROSS SECTIONS ARE TO BE STAKED BY THE CONTRACTOR AND REVIEWED BY THE PROJECT ENGINEER. FINAL DIMENSIONS WILL BE FINE-TUNED IN THE FIELD BY THE PROJECT ENGINEER.
- BEDROCK REMOVAL IS NOT PROPOSED. DO NOT REMOVE BEDROCK WITHOUT DIRECTION OF PROJECT ENGINEER.
- ANY MATERIAL EXPORTED OFF-SITE SHALL BE LEGALLY DISPOSED OF IN AN UPLAND LOCATION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR FINDING A SUITABLE RECIPIENT OF THE MATERIAL, GAINING REGULATORY APPROVAL FOR EXPORTED MATERIAL PLACEMENT IF NEEDED, AND HAULING.
- ALL AREAS SURROUNDING THE PROJECT SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED UPON COMPLETION OF CONSTRUCTION. THE RESTORATION OF THE SITE IS SUBJECT TO APPROVAL BY THE PROJECT ENGINEER AND LANDOWNER.
- FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PARTICIPATE IN A FINAL SITE INSPECTION WITH PROJECT ENGINEER FOR THE PURPOSE OF VERIFYING THAT THE PROJECT HAS BEEN COMPLETED ACCORDING TO THE CONSTRUCTION PLANS AND THE TERMS AND CONDITIONS OF THE CONTRACT.

SEDIMENT MANAGEMENT NOTES

- EXISTING SEDIMENT VOLUME ACCUMULATED BEHIND DAM = 25,000 CY. EXPECTED MECHANICAL REMOVAL VOLUME = +/- 9,000 CY OVER A CHANNEL LENGTH OF 1,000 FEET. REMAINING SEDIMENT EXPECTED TO NATURALLY ERODE DOWNSTREAM OR STABILIZE IN PLACE.
- PILOT CHANNEL DIMENSIONS WILL FOLLOW THE TYPICAL CROSS SECTION WITH CREATION OF A LOW FLOW CHANNEL AND LEAVING SEDIMENT TO FORM BARS WITHIN THE EXISTING CHANNEL.
- STOCKPILE NATURAL STREAM GRAVEL, COBBLES, AND BOULDERS TO REBUILD CHANNEL.
- STOCKPILE BOULDERS > 12" AND < 48" AND LOGS OR STUMPS FOR REUSE AS CHANNEL ROUGHNESS ELEMENTS WHEN RESTORING CHANNEL BED.
- TREES CLEARED OR LOGS ENCOUNTERED IN SEDIMENT TO BE REINSTALLED IN CHANNEL OR FLOODPLAIN.

OPERATION AND MAINTENANCE NOTES

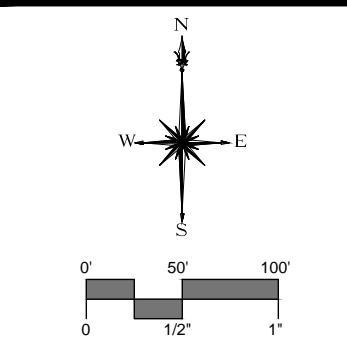
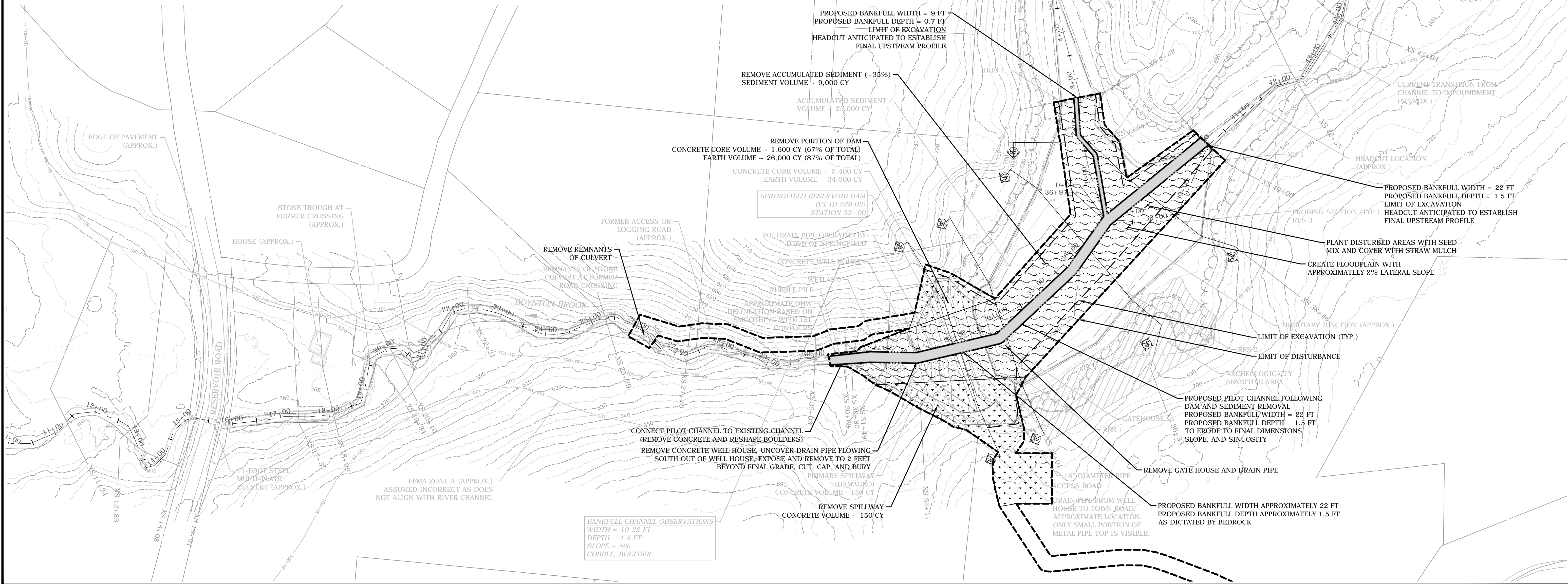
- DAM REMOVALS ARE INTENDED TO RESTORE STREAM DYNAMIC EQUILIBRIUM TO ALLOW THE STREAM TO MEANDER OVER TIME. THE CHANNEL WILL MOVE IN THE FUTURE.
- PLANTED VEGETATION IS TO BE MONITORED DURING THE GROWING SEASON FOR TWO YEARS TO EVALUATE A SUCCESSFUL VEGETATION ESTABLISHMENT OF 80% AERIAL COVERAGE.
- ANY AREAS OF POOR VEGETATIVE COVER SHALL BE REPLANTED ACCORDINGLY.

LEGEND

- PROPOSED EDGE OF WATER
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- APPROX. PROPERTY LINE
- EXISTING EDGE OF ROAD
- EXISTING TREELINE
- EXISTING WETLAND
- EXISTING LEDGE
- EXISTING RUBBLE PILE
- FEMA ZONE A (APPROX.)
- RIVER CORRIDOR
- ORDINARY HIGH WATER
- FIELD DATA COLLECTION POINT
- PROBING SEDIMENT DEPTH
- SEDIMENT PROBING SECTION
- ACCUMULATED SEDIMENT LIMITS (APPROX.)

SEED MIX LIST:

	Species	Application Rate	Area	Estimated Quantity
Vermont Wet Meadow Mix	Switchgrass (<i>Panicum virgatum</i>), Virginia wild rye (<i>Elymus virginicus</i>), Red fescue (<i>Festuca rubra</i>), Fox sedge (<i>Carex vulpinoidea</i>), Woolgrass (<i>Scirpus cyperinus</i>), Green bulrush (<i>Scirpus atrovirens</i>), Nodding bur-marigold (<i>Blitens cernua</i>), Boneset (<i>Eupatorium perfoliatum</i>), Joe-pye weed (<i>Eupatoriadelphus maculatus</i>), soft rush (<i>Juncus effusus</i>), Sensitive fern (<i>Onoclea sensibilis</i>), Blue vervain (<i>Verbena hastata</i>), New England aster (<i>Symphoricarum nova-angliae</i>)	35 Lbs. / Acre	2.8 Acres	96.5 Lbs.
New England Roadside Matrix Upland Seed Mix	Virginia Wild Rye (<i>Elymus virginicus</i>), Little Bluestem (<i>Schizachyrium scoparium</i>), Red Fescue (<i>Festuca rubra</i>), Big Bluestem (<i>Andropogon gerardii</i>), Indian Grass (<i>Sorghastrum nutans</i>), Switch Grass (<i>Panicum virgatum</i>), Partridge Pea (<i>Chamaecrista fasciculata</i>), Butterfly Milkweed (<i>Asclepias tuberosa</i>), Panicledleaf Tick Trefoil (<i>Desmodium paniculatum</i>), Beard Tongue (<i>Penstemon digitalis</i>), Black Eyed Susan (<i>Rudbeckia hirta</i>), Hollow-Stem Joe Pye Weed (<i>Eupatorium fistulosum/Eutrochium fistulosum</i>), Grey Dogwood (<i>Cornus racemosa</i>), Silky Dogwood (<i>Cornus amomum</i>), Staghorn Sumac (<i>Rhus typhina</i>)	35 Lbs. / Acre	1.1 Acres	39.2 Lbs.



DESCRIPTION	DATE	BY

SITE PLAN - PROPOSED CONDITIONS
SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
 WELLWOOD ORCHARD RD
 WEATHERSFIELD, VERMONT

CMN	CMN	RKS
DESIGNED	DRAWN	CHECKED
SCALE: 1" = 100'		
DATE: JANUARY 26, 2022		
PROJECT NO: 5726-02		
SHEET NO: 3 OF 8		
SP2		

EROSION CONTROL NOTES

1. THE SEDIMENT AND EROSION CONTROL PRACTICES IMPLEMENTED AS PART OF THE PROJECT SHALL BE IMPLEMENTED AND MAINTAINED ACCORDING TO "THE LOW RISK SITE HANDBOOK FOR EROSION PROTECTION AND SEDIMENT CONTROL" GUIDANCE DOCUMENT FROM THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION, WHERE APPLICABLE IN CONSULTATION WITH PROJECT ENGINEER.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
3. CLEARING OF NATIVE VEGETATION FOR CONSTRUCTION ACCESS SHOULD BE MINIMIZED.
4. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR WILL VERIFY THE MAINTENANCE WEEKLY AND AFTER RAIN EVENTS AND REPORT TO PROJECT ENGINEER.
6. THE PROJECT ENGINEER IS TO BE NOTIFIED IMMEDIATELY IF EXCESSIVE SEDIMENT EROSION TAKES PLACE, IF SIGNIFICANT FINE GRAIN SEDIMENT IS ENCOUNTERED OR IF POTENTIALLY CONTAMINATED SEDIMENTS ARE ENCOUNTERED (OILY, DARK COLOR, CHEMICAL ODOR).
7. PLAN AND PERFORM WORK FOR LOW FLOW PERIODS.
8. STOCKPILE AND STAGING LOCATIONS AS INDICATED ON THE PLANS AND AS APPROVED BY THE PROJECT ENGINEER, SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE. WETLANDS SHALL BE PROTECTED AND REMAIN UNDISTURBED THROUGHOUT THE DURATION OF THE PROJECT.
9. NO DISTURBED EARTH WILL REMAIN EXPOSED FOR MORE THAN SEVEN (7) CONSECUTIVE DAYS WITHOUT APPLYING TEMPORARY OR PERMANENT STABILIZATION MEASURES.
10. EXPOSED AREAS SHALL BE SEEDED AND MULCHED OR PROTECTED WITH EROSION CONTROL MATTING WITHIN 48 HOURS OF ACHIEVING FINAL GRADE.
11. ANY DISTURBED SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKET PER DIRECTION OF PROJECT ENGINEER. SEE DETAIL.

TRAFFIC MANAGEMENT NOTES

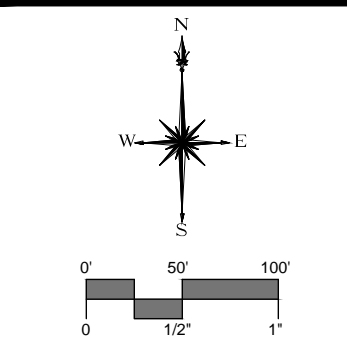
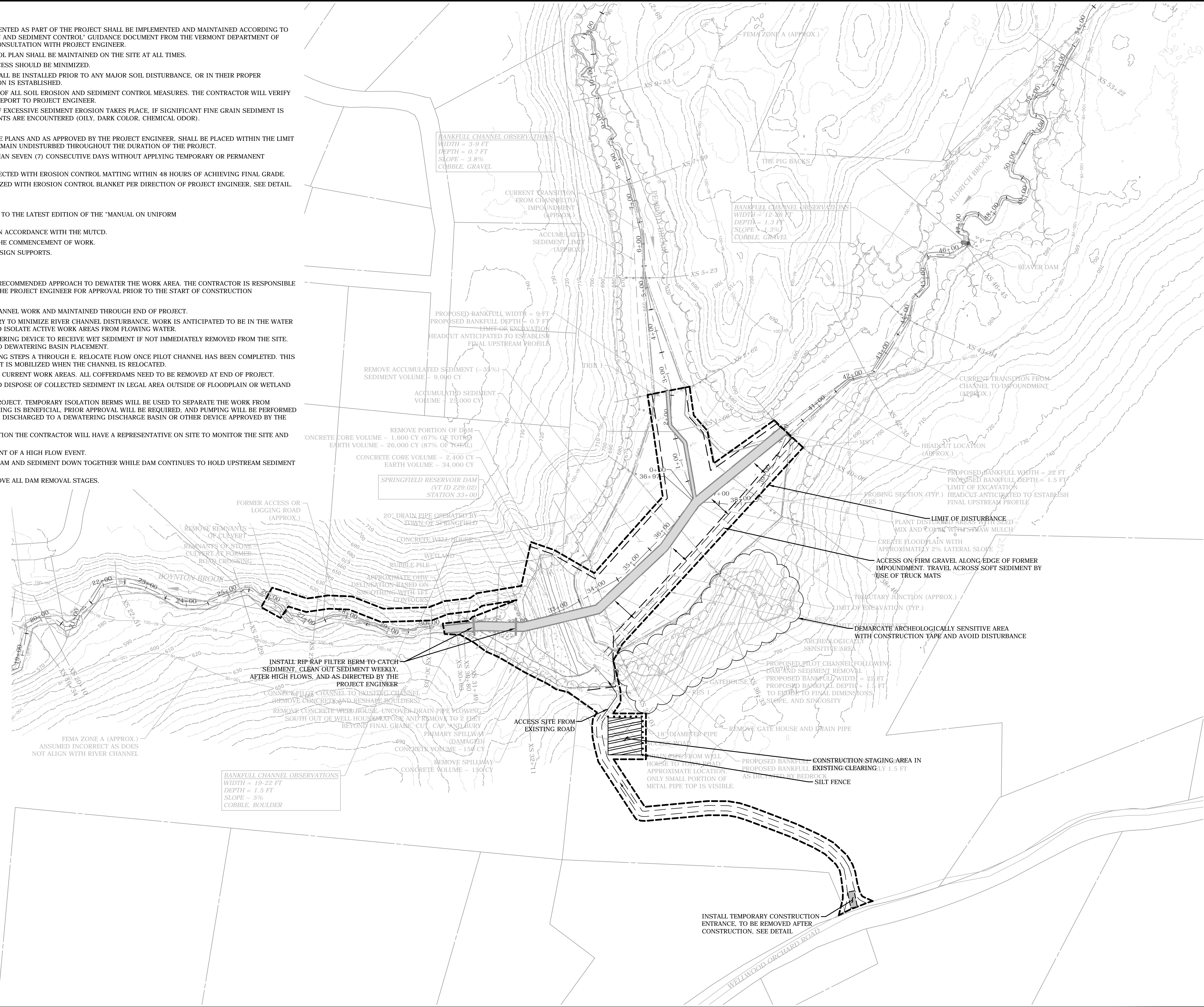
1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. ALL CONSTRUCTION SIGNS SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

WATER CONTROL PLAN

1. THE PROPOSED WATER CONTROL PLAN IS PROVIDED AS A RECOMMENDED APPROACH TO DEWATER THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PROPOSED WATER CONTROL PLAN TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION
2. BEGIN WORK DURING LOW WATER.
3. STONE FILTER BERM SHALL BE INSTALLED PRIOR TO IN-CHANNEL WORK AND MAINTAINED THROUGH END OF PROJECT.
4. AS MUCH WORK AS POSSIBLE IS TO BE COMPLETED IN THE DRY TO MINIMIZE RIVER CHANNEL DISTURBANCE. WORK IS ANTICIPATED TO BE IN THE WATER AT TIMES. ISOLATION BERMS OR OTHER BARRIERS SHOULD ISOLATE ACTIVE WORK AREAS FROM FLOWING WATER.
5. INSTALL DEWATERING BASIN OR OTHER APPROVED DEWATERING DEVICE TO RECEIVE WET SEDIMENT IF NOT IMMEDIATELY REMOVED FROM THE SITE. NO PERMANENT DISTURBANCE SHOULD TAKE PLACE DUE TO DEWATERING BASIN PLACEMENT.
6. FLOW TO BE MAINTAINED IN THE EXISTING CHANNEL DURING STEPS A THROUGH E. RELOCATE FLOW ONCE PILOT CHANNEL HAS BEEN COMPLETED. THIS APPROACH MINIMIZES THE FIRST FLUSH OF SEDIMENT THAT IS MOBILIZED WHEN THE CHANNEL IS RELOCATED.
7. COFFERDAMS MAY BE USED TO DIRECT WATER AWAY FROM CURRENT WORK AREAS. ALL COFFERDAMS NEED TO BE REMOVED AT END OF PROJECT.
8. REMOVE DEWATERING BASIN AND STONE FILTER BERM AND DISPOSE OF COLLECTED SEDIMENT IN LEGAL AREA OUTSIDE OF FLOODPLAIN OR WETLAND AREAS.
9. PUMPING IS NOT EXPECTED TO BE NECESSARY FOR THIS PROJECT. TEMPORARY ISOLATION BERMS WILL BE USED TO SEPARATE THE WORK FROM NORMAL LOW FLOW. SHOULD THE CONTRACTOR FEEL PUMPING IS BENEFICIAL, PRIOR APPROVAL WILL BE REQUIRED, AND PUMPING WILL BE PERFORMED AT THE CONTRACTORS EXPENSE. DIRTY WATER SHOULD BE DISCHARGED TO A DEWATERING DISCHARGE BASIN OR OTHER DEVICE APPROVED BY THE PROJECT ENGINEER.
10. IN THE EVENT OF A HIGH FLOW EVENT DURING CONSTRUCTION THE CONTRACTOR WILL HAVE A REPRESENTATIVE ON SITE TO MONITOR THE SITE AND REPORT TO PROJECT ENGINEER ON SITE CONDITIONS.
11. TEMPORARY STABILIZATION MAY BE REQUIRED IN THE EVENT OF A HIGH FLOW EVENT.
12. REMOVALS TO BE COMPLETED INCREMENTALLY TO BRING DAM AND SEDIMENT DOWN TOGETHER WHILE DAM CONTINUES TO HOLD UPSTREAM SEDIMENT IN PLACE.
13. THE PROJECT ENGINEER SHALL BE ON SITE FOR AND APPROVE ALL DAM REMOVAL STAGES.

LEGEND

- PROPOSED EDGE OF WATER
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- - - APPROX. PROPERTY LINE
- - - EXISTING EDGE OF ROAD
- - - EXISTING TREETLINE
- - - EXISTING WETLAND
- - - EXISTING LEDGE
- - - EXISTING RUBBLE PILE
- - - FEMA ZONE A (APPROX.)
- - - RIVER CORRIDOR
- - - ORDINARY HIGH WATER
- ⊗ FIELD DATA COLLECTION POINT
- ⊗ 1.6' PROBING SEDIMENT DEPTH
- - - SEDIMENT PROBING SECTION
- - - ACCUMULATED SEDIMENT LIMITS (APPROX.)



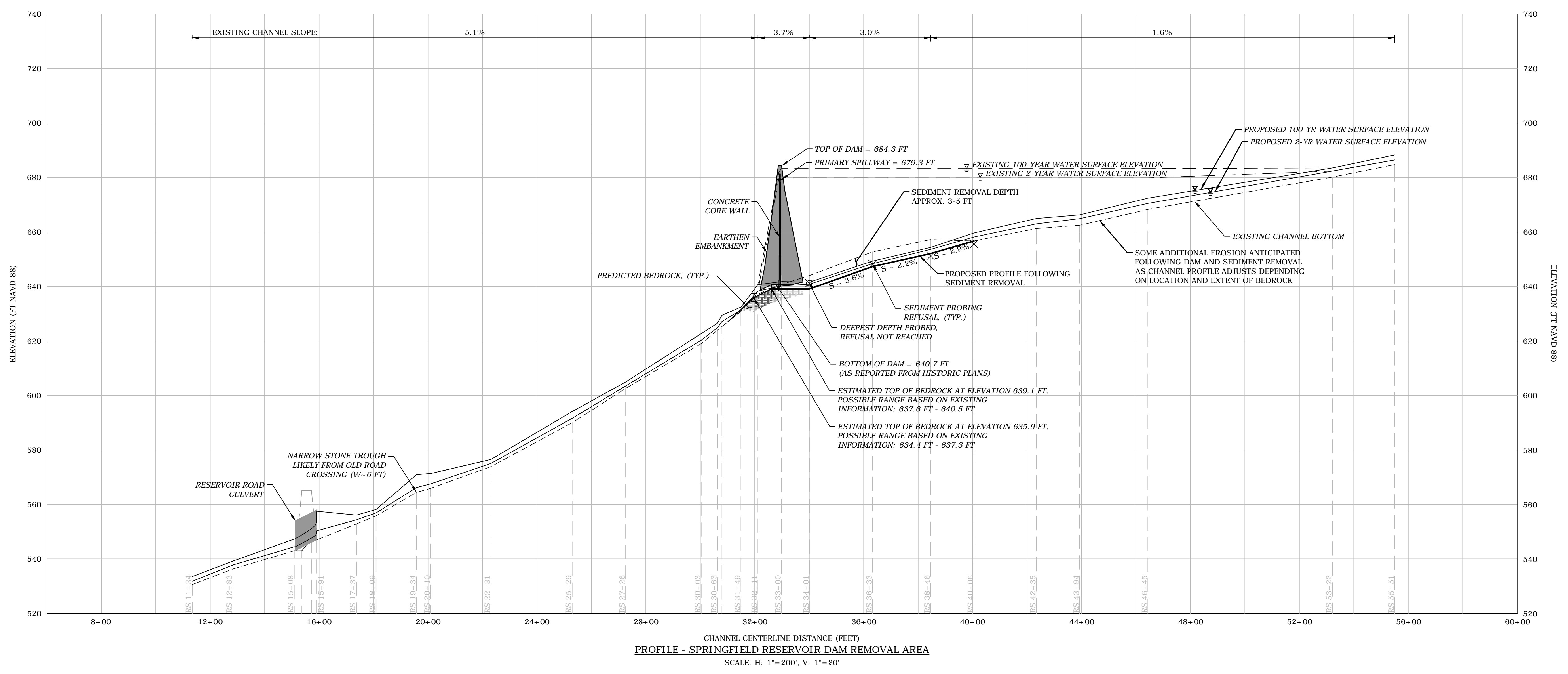
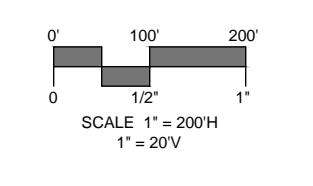
MILONE & MACBROOM
 NOW PART OF **SLR**
 88 REASBY DRIVE
 CHESTER, VT 05610
 203.271.1773
 WWW.MILONE-AND-MACBROOM.COM | SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - CONSTRUCTION ACCESS, SEQUENCE & WATER CONTROL
SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
 WELLWOOD ORCHARD RD
 WEATHERSFIELD, VERMONT

CMN DESIGNED	CMN DRAWN	RKS CHECKED
SCALE 1" = 100'		
DATE JANUARY 26, 2022		
PROJECT NO. 5726-02		
SHEET NO. 4 OF 8		
SP3		

1500 MAIN STREET
 WATERBURY, VT 05676
 802.882.8335
 WWW.MILONE.COM



CHANNEL CENTERLINE DISTANCE (FEET)
PROFILE - SPRINGFIELD RESERVOIR DAM REMOVAL AREA
 SCALE: H: 1"=200', V: 1"=20'



DESCRIPTION	DATE	BY

FINAL DESIGN (100%)

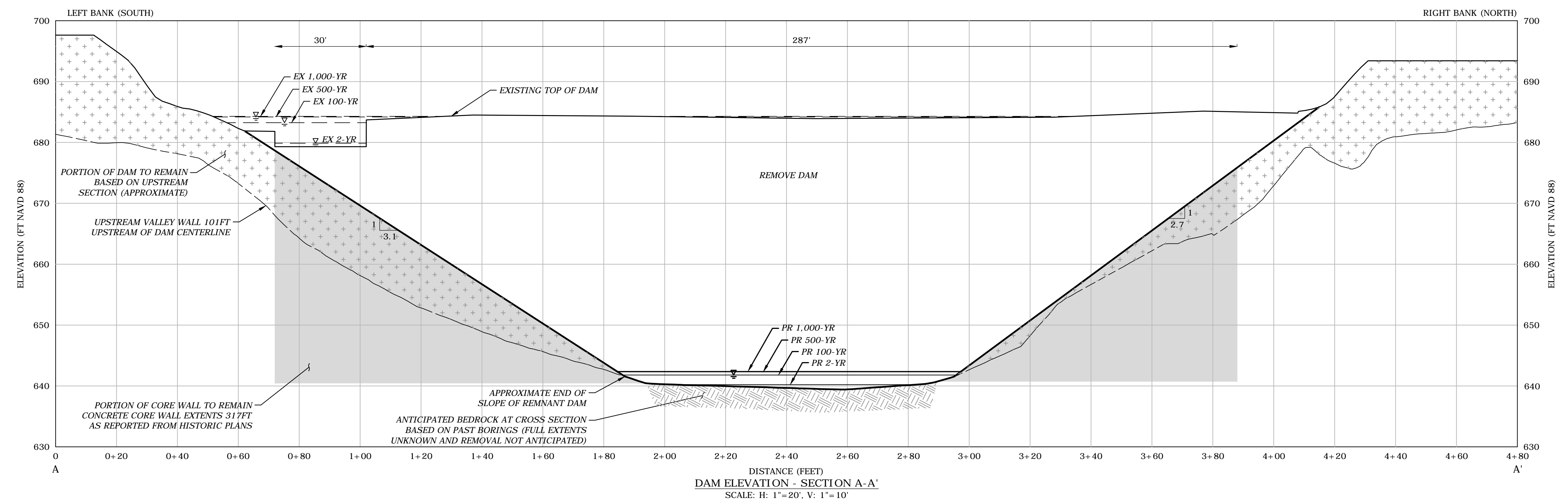
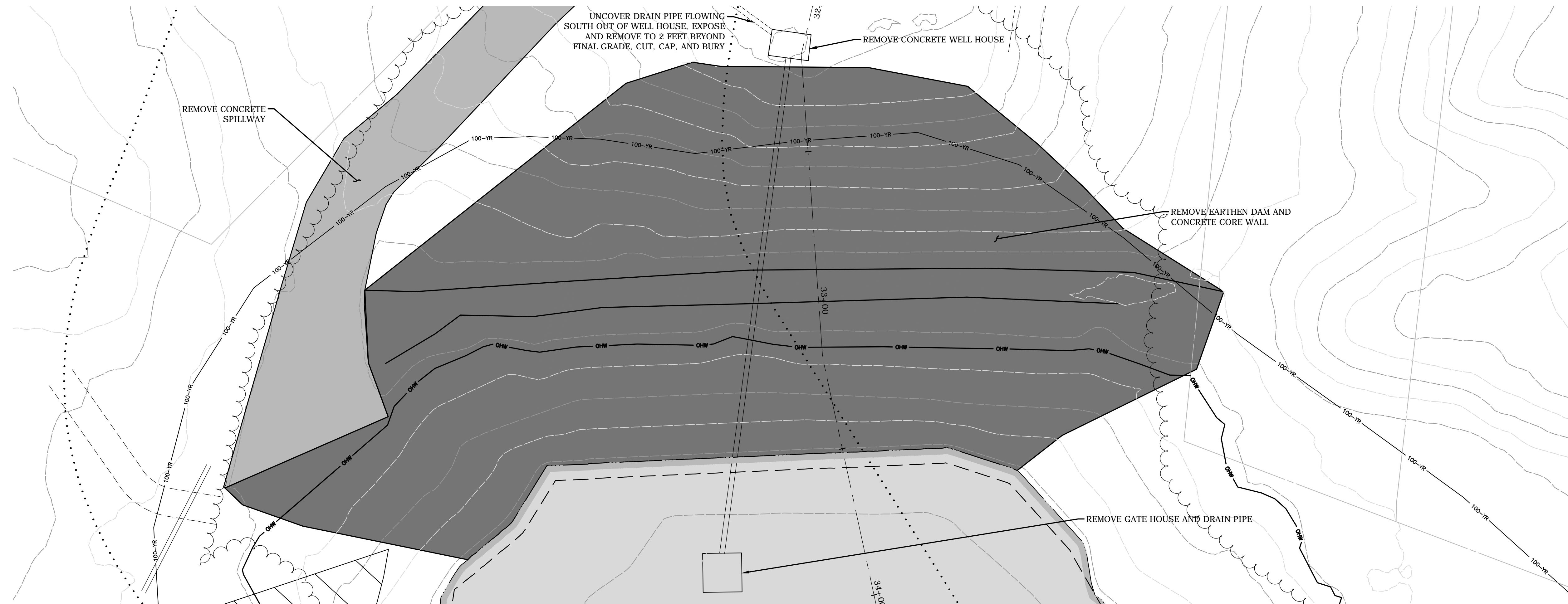
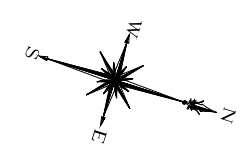
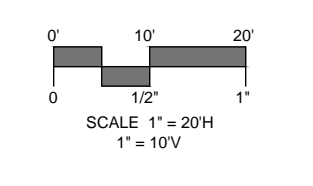
CHANNEL PROFILE
SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
 WELLWOOD ORCHARD RD
 WEATHERSFIELD, VERMONT

DESIGNED	CMN	RKS
DRAWN	CMN	CHECKED
SCALE		
1"=200' H		
1"=20' V		
DATE		
JANUARY 26, 2022		
PROJECT NO.		
5726-02		
SHEET NO.		
5 OF 8		

PRO

DAM REMOVAL NOTES

1. ELEVATION VIEWED LOOKING DOWNSTREAM.
2. SPRINGFIELD RESERVOIR DAM TO BE REMOVED DOWN TO BEDROCK.
 - 2.1. CONCRETE CORE: 1,600 CY (67% OF TOTAL 2,400 CY)
 - 2.2. EARTH: 26,000 CY (87% OF TOTAL 30,000 CY)
3. DO NOT REMOVE BEDROCK.



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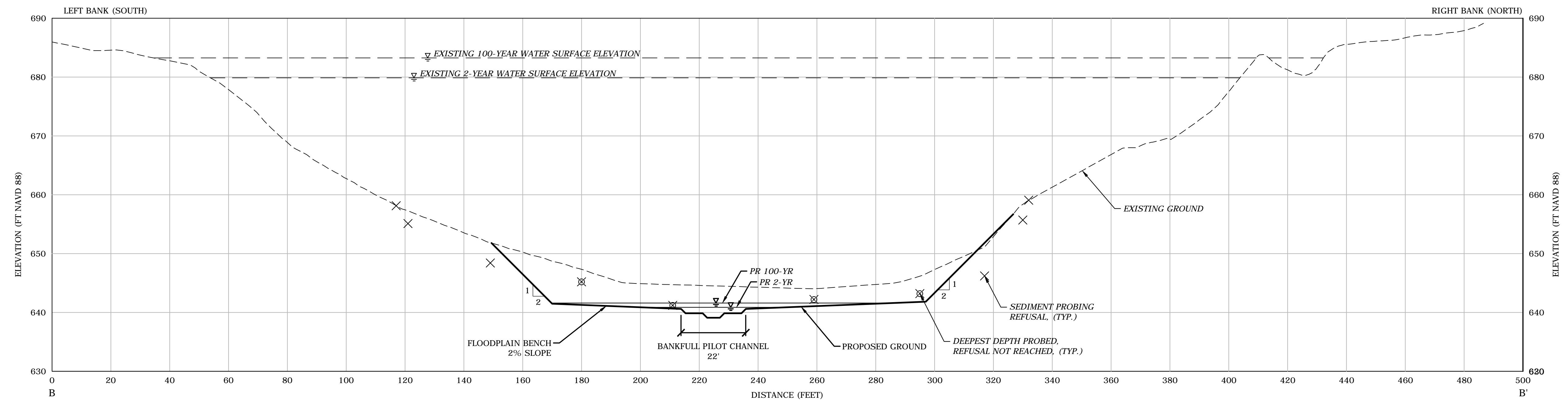
STRUCTURE REMOVALS
 SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
 WELLWOOD ORCHARD RD
 WEATHERSFIELD, VERMONT

DESIGNED	CMN	RKS
DRAWN	CMN	CHECKED
SCALE	1" = 20' H 1" = 10' V	
DATE	JANUARY 26, 2022	
PROJECT NO.	5726-02	
SHEET NO.	6 OF 8	

STR

SHEET 6 OF 8 - DAM REMOVAL NOTES
 PROJECT: SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
 DATE: JANUARY 26, 2022
 DRAWN BY: CMN
 CHECKED BY: RKS
 SCALE: H: 1" = 20', V: 1" = 10'

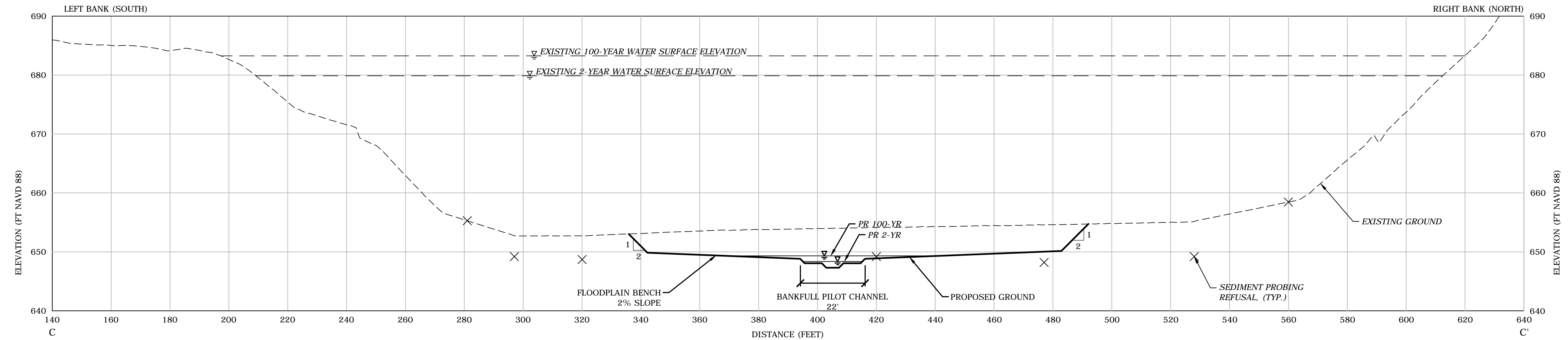
SHEET 7 OF 8
 PROJECT NO. 5726-02
 DATE: JANUARY 26, 2022
 SCALE: H: 1"=20', V: 1"=10'
 DRAWN BY: CMN
 CHECKED BY: RKS
 DESIGNED BY: CMN



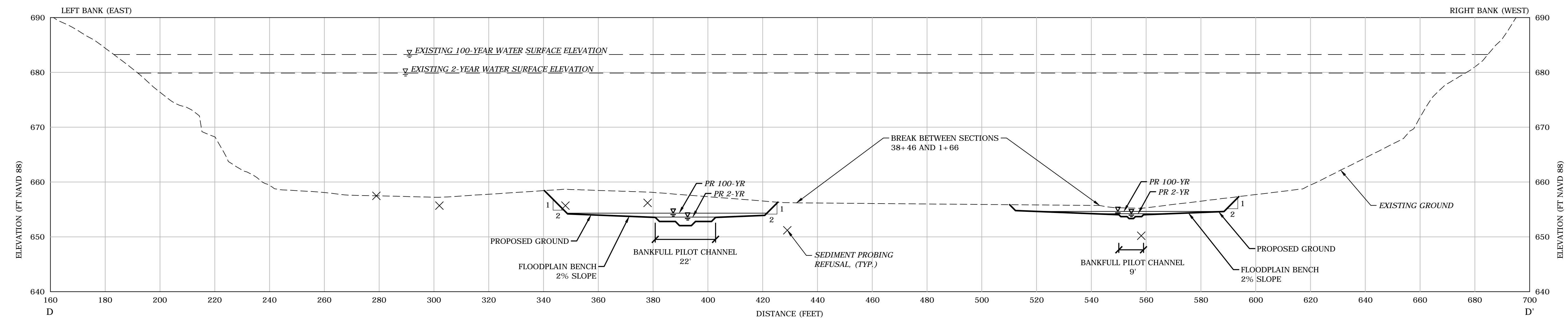
RS 34+01 - SECTION B-B'
 SCALE: H: 1"=20', V: 1"=10'

CROSS SECTION NOTES

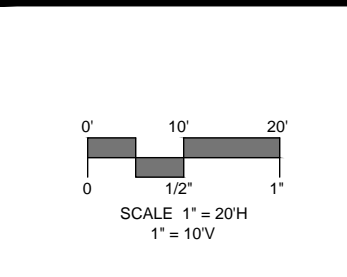
1. CROSS SECTIONS VIEWED LOOKING DOWNSTREAM.
2. CONSTRUCTED CHANNEL TO BE CONSTRUCTED USING NATIVE CHANNEL BED MATERIAL, OR BE COMPOSED OF EXISTING BEDROCK, WITH ROUGHNESS (SEE DETAILS).
3. CHANNEL TYPE (BEDROCK OR SEDIMENT) TO BE REFINED IN FIELD WITH PROJECT ENGINEER AFTER DEWATERING AND SEDIMENT REMOVAL.
4. **BEDROCK CHANNEL SECTIONS**
 - 4A. DO NOT ATTEMPT TO MATCH PROPOSED GRADING IN AREAS WHERE BEDROCK IS ENCOUNTERED
 - 4B. BEDROCK NOT TO BE REMOVED
 - 4C. LOW-FLOW CHANNEL SET BY BEDROCK
5. **RIVER SEDIMENT CHANNEL SECTIONS**
 - 5A. REFER TO RESTORED CHANNEL BED AND TYPICAL CHANNEL SECTION DETAILS
 - 5B. ALIGNMENT OF THE LOW-FLOW CHANNEL TO BE LOCATED IN THE FIELD DURING CONSTRUCTION BY THE PROJECT ENGINEER.



RS 36+33 - SECTION C-C'
 SCALE: H: 1"=20', V: 1"=10'



RS 38+46 & 1+66 - SECTION D-D'
 SCALE: H: 1"=20', V: 1"=10'



MILONE & MACBROOM
 NOW PART OF **SLR**
 150 WILKINSON STREET
 WATERBURY, VT 05676
 802.882.8335
 WWW.MMMINC.COM

DESCRIPTION	DATE	BY

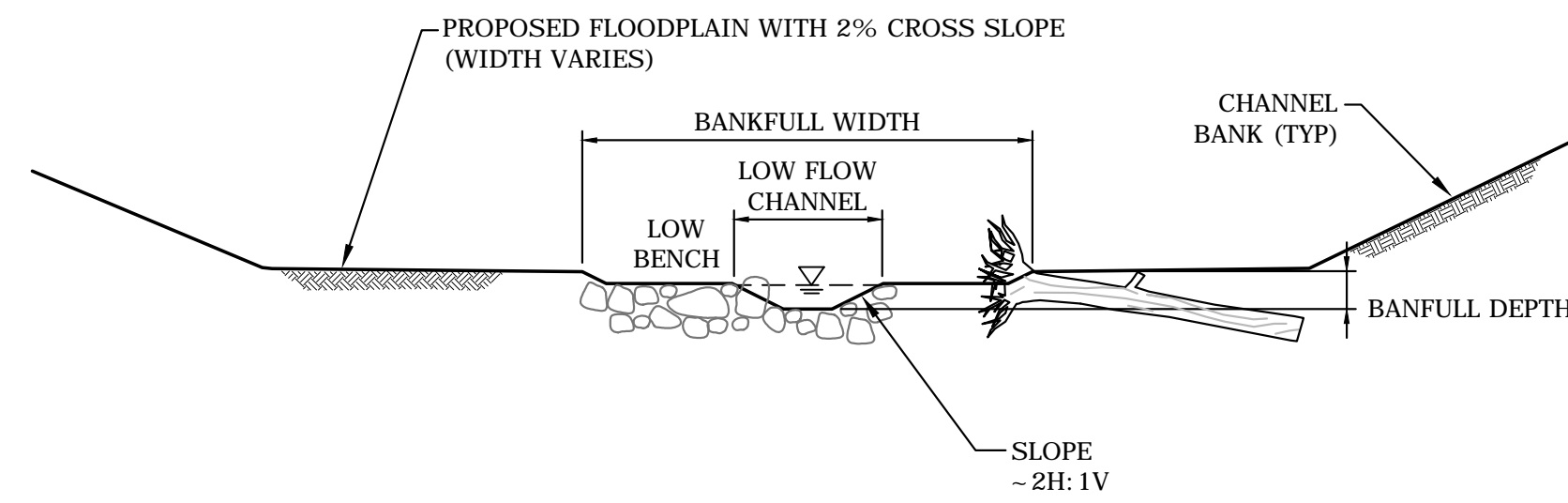
TYPICAL CROSS-SECTIONS
SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
WELLWOOD ORCHARD RD
WEATHERSFIELD, VERMONT
FINAL DESIGN (100%)

DESIGNED BY	CMN	RKS
DRAWN BY	CMN	CHECKED
SCALE	1"=20' H 1"=10' V	
DATE	JANUARY 26, 2022	
PROJECT NO.	5726-02	
SHEET NO.	7 OF 8	

XS

RIVER	CHANNEL TYPE	WIDTH (FEET)	DEPTH (FEET)
MAIN STEM	BANKFULL	22	1.5
MAIN STEM	LOW FLOW	7	0.75
TRIBUTARY	BANKFULL	9	0.7
TRIBUTARY	LOW FLOW	3	0.35

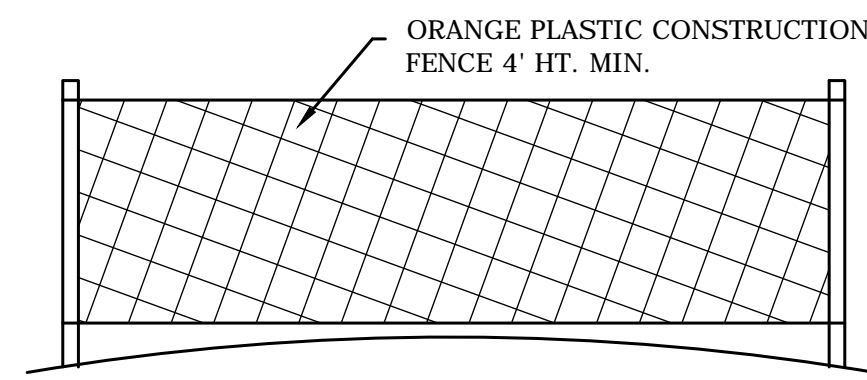
TYPICAL CHANNEL DIMENSIONS
NOT TO SCALE



NOTES:

1. SET LOW FLOW CHANNEL WIDTH TO APPROXIMATELY $\frac{1}{3}$ THE BANKFULL CHANNEL WIDTH.
2. SEE TYPICAL CHANNEL DIMENSIONS.
3. ALIGNMENT OF THE LOW FLOW CHANNEL TO BE LOCATED IN THE FIELD DURING CONSTRUCTION BY THE PROJECT ENGINEER.
4. PILOT CHANNEL TO BE CONSTRUCTED USING NATIVE CHANNEL BED MATERIAL. MAINTAIN ROUGH AND IRREGULAR CROSS SECTION AS POSSIBLE.
5. STOCKPILE AND INSTALL NATIVE GRAVEL, COBBLE, BOULDERS, AND LARGE WOOD.

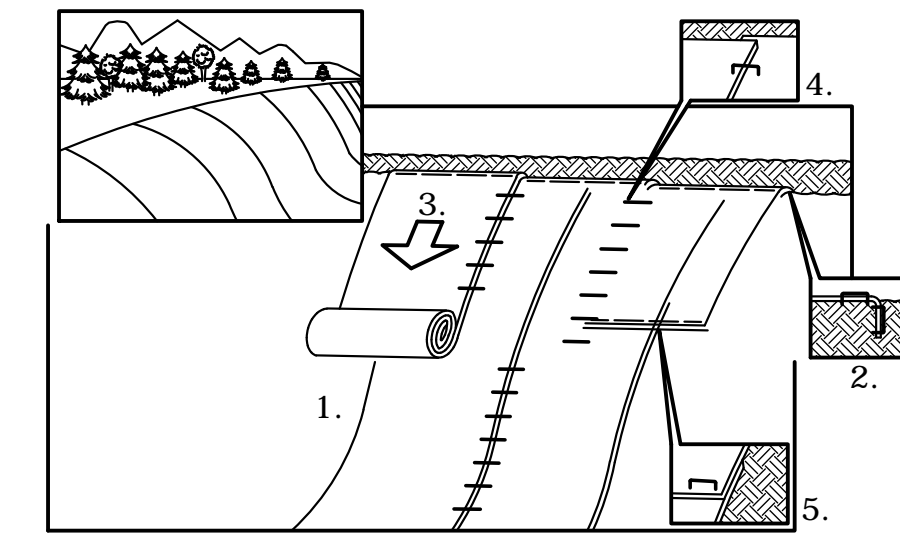
TYPICAL CHANNEL SECTION
NOT TO SCALE



NOTE:

1. CONTRACTOR SHALL COORDINATE TEMPORARY FENCE INSTALLATION WITH OWNERS REPRESENTATIVES.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVALS PRIOR TO CONSTRUCTION.

ORANGE CONSTRUCTION SAFETY FENCING
NOT TO SCALE

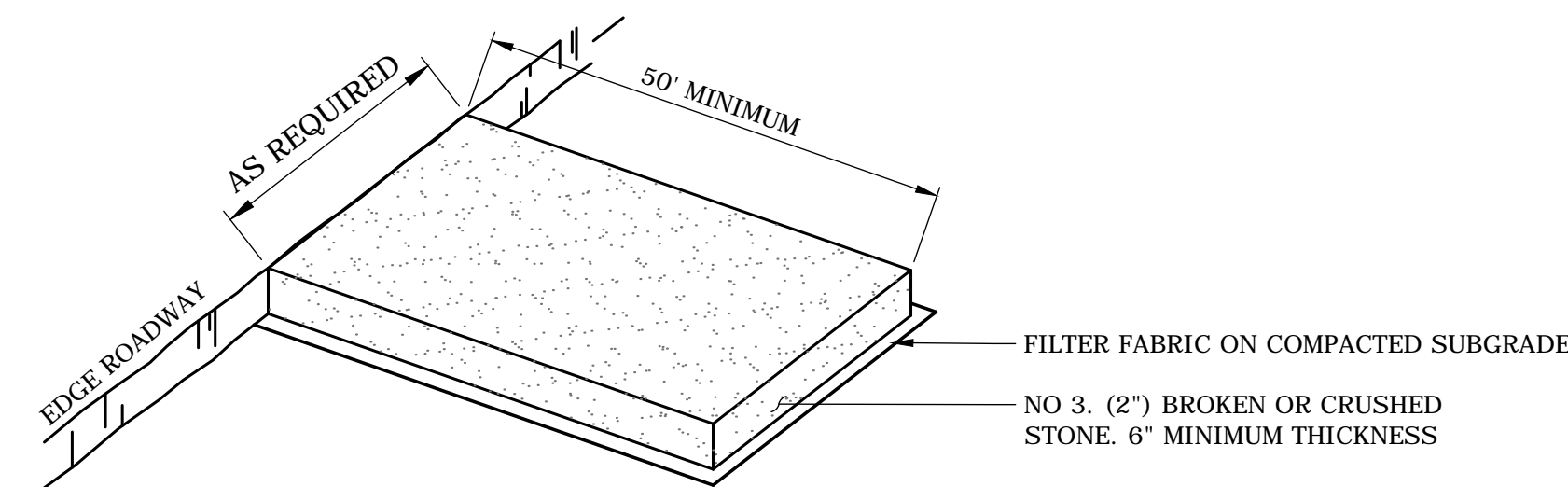


NOTES:

1. USE BIONET SHORT TERM BIODEGRADABLE EROSION CONTROL BLANKETS ITEM NUMBER S150BN, AS MANUFACTURED BY NORTH AMERICAN GREEN, 5401 ST. WENDEL-CYNTHIANA ROAD, POSEYVILLE, IN 47633, OR APPROVED EQUAL.
2. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING SCC225, DO NOT SEED PREPARED AREA. SCC225 MUST BE INSTALLED WITH PAPER SIDE DOWN.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
4. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
5. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
6. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.

REFER TO GENERAL STAPLE PATTERN GUIDE IN NORTH AMERICAN GREEN CATALOG FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

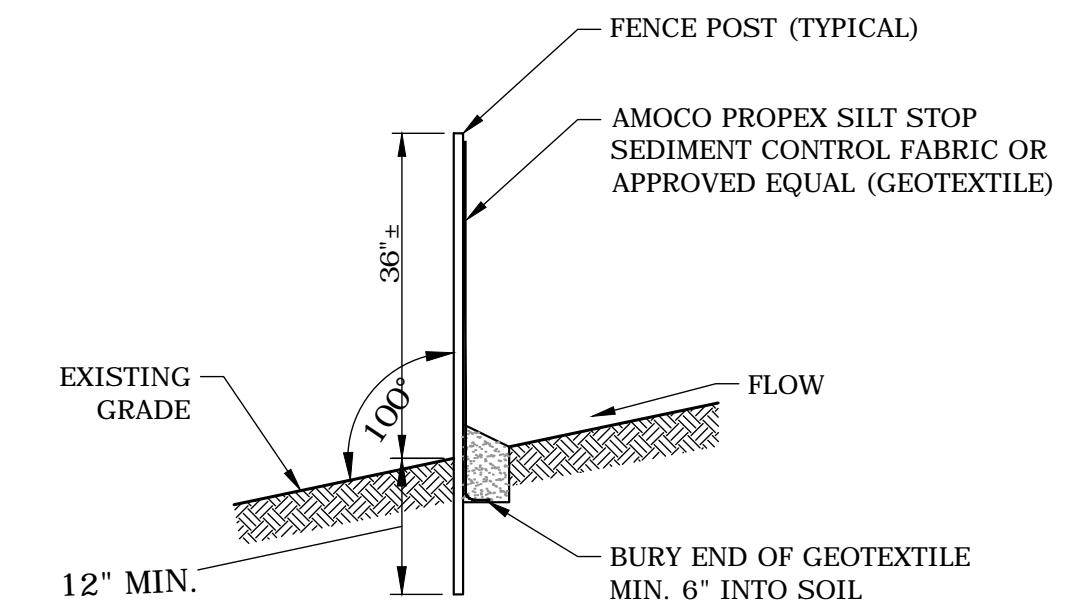
APPLICATION OF EROSION CONTROL BLANKET ON SLOPES
NOT TO SCALE



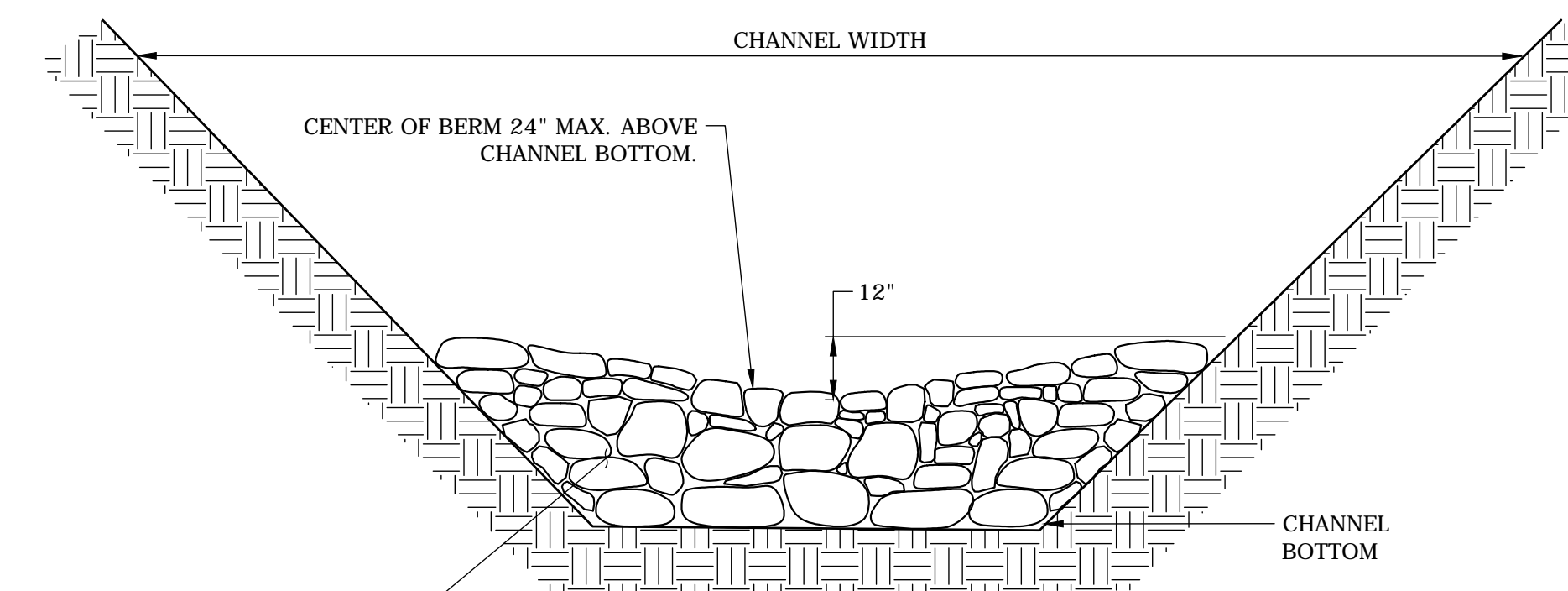
NOTES:

1. CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.

CONSTRUCTION ENTRANCE PAD
NOT TO SCALE



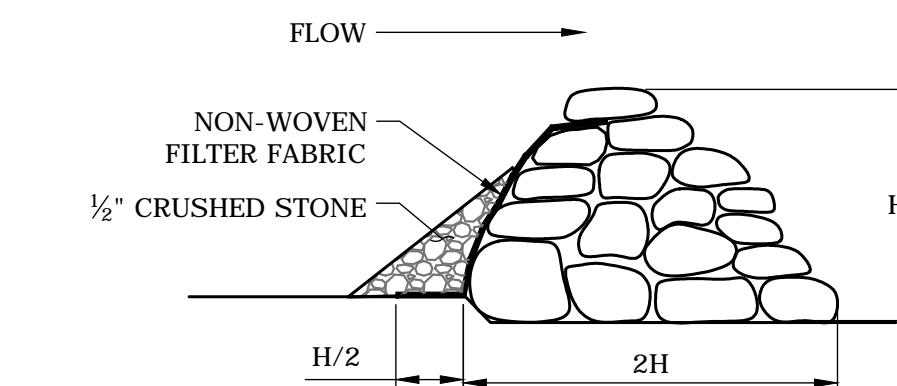
SEDIMENT FILTER FENCE
NOT TO SCALE



NOTES:

1. CHOKER STONES TO FILL VOIDS BETWEEN STONES
2. REMOVE PRIOR TO DEMOBILIZATION.

RIPRAP FILTER BERM
NOT TO SCALE



DESCRIPTION	DATE	BY	DWG
EROSION CONTROL BLANKET SPEC	3/11/2021		

FINAL DESIGN (100%)

DETAILS
SPRINGFIELD RESERVOIR DAM REMOVAL (VT # 229.02)
WELLWOOD ORCHARD RD
WEATHERSFIELD, VERMONT

RKS	CMN	RKS
DESIGNED	DRAWN	CHECKED
NOT TO SCALE		
JANUARY 26, 2022		
DATE		
5726-02		
PROJECT NO.		
8 OF 8		
SHEET NO.		

DET