

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION

1. TO COMPENSATE FOR UNAVOIDABLE WETLAND IMPACTS ASSOCIATED WITH THE US ROUTE 2 CABOT-DANVILLE PROJECT, THE VERMONT AGENCY OF TRANSPORTATION IS PROPOSING TO CREATE A WETLAND/NATURAL AREA IN THE FORMER GRAVEL PIT OFF OF COBURN ROAD IN EAST MONTPELIER, VERMONT.
2. THE TOTAL SITE IS 78 ACRES, 3.25 ACRES OF WHICH INCLUDES THE RIVER, AND LANDS LOCATED ON THE WEST SIDE OF THE WINOOSKI RIVER WHICH WILL NOT INVOLVE DISTURBANCE, BUT WILL BE PRESERVED. THE ABANDONED GRAVEL PIT, LOCATED ON THE EAST SIDE OF THE RIVER COMPRISES APPROXIMATELY 45.5 ACRES.
3. THE TOTAL DISTURBANCE ASSOCIATED WITH CONSTRUCTION OF THIS PROJECT IS APPROXIMATELY 14 ACRES.
4. THE PROJECT RECEIVING WATER IS THE WINOOSKI RIVER.
5. SOILS THROUGHOUT THE PROJECT ARE CLASSIFIED BY THE NRCS AS "100 PITS, SAND AND PITS, GRAVEL". THE ASSOCIATED K-FACTOR IS 0.17 TO 0.15.
6. A SOIL WASTE AND STAGING AREA HAS BEEN IDENTIFIED FOR USE BY THIS PROJECT AND SEGMENT ONE OF THE US ROUTE 2 CABOT-DANVILLE PROJECT IN A 6+/- ACRE AREA OF LAND LOCATED AT THE NORTH END OF THE SITE.
7. IT IS NOT EXPECTED THAT CONSTRUCTION ACTIVITIES WILL CONTINUE INTO THE WINTER CONSTRUCTION SEASON FOR ANY OF THE THREE PHASES OF CONSTRUCTION. WINTER CONSTRUCTION INCLUDES THE PERIOD FROM OCTOBER 15 TO APRIL 15.

CONSTRUCTION SEQUENCE

1. THE MITIGATION SITE WILL BE CONSTRUCTED IN THREE PHASES OVER THREE CONSTRUCTION SEASONS.
2. EACH PHASE OF THIS CONTRACT WILL COMPLETE THE MITIGATION SITE IN ITS ENTIRETY (EARTHWORK AND PLANTING) WITHIN THE LIMITS OF THE RESPECTIVE PHASE AS FOLLOWS, INCLUSIVE OF THE FILL DISPOSAL AREAS:

YEAR	STATION
1	0+00 TO 5+00 +/-
2	16+00 TO 31+00
3	COMPLETION OF PLANTINGS
3. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN AT ANY GIVEN POINT IN TIME.
4. A GENERAL SEQUENCE FOR EACH MAJOR PHASE OF CONSTRUCTION IS AS FOLLOWS:
 - * ESTABLISH PERIMETER CONTROLS
 - * BEGIN CUT & FILL OPERATIONS, GENERALLY WORKING FROM SOUTH TO NORTH
 - * PLACE SOIL AMENDMENTS TO ACHIEVE FINAL GRADES
 - * CONCURRENTLY INSTALL TEMPORARY OR PERMANENT STABILIZATION MEASURES AS WORK PROGRESSES
 - * COMPLETE PERMANENT STABILIZATION MEASURES/LANDSCAPING

CONTRACTOR RESPONSIBILITIES, LIMITATIONS & PROHIBITIONS

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AMEND/UPDATE ALL PLANS AND EXISTING PERMITS WHEN ADDING DETAILED CONSTRUCTION PHASING OR ADDITIONAL WASTE/BORROW/STAGING AREAS, OR OTHER MODIFICATIONS THAT MAY DEVIATE FROM THE APPROVED EPSC PLAN AS DIRECTED BY THE RESIDENT ENGINEER.
2. FURNISH, INSTALL, INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL MATERIALS IN CONJUNCTION WITH THE GENERAL CLEARING, GRADING AND EXCAVATION OF THE SITE.
3. AVOID ALL LAND DISTURBANCES WITHIN 50 FEET OF THE WINOOSKI RIVER, MEASURED FROM THE TOP OF BANK, EXCEPT WHERE NECESSARY FOR THE PLACEMENT OF PLANTINGS, AND COMPONENTS OF STORMWATER MANAGEMENT SYSTEMS WHICH BY NECESSITY MUST BE LOCATED IN THIS ZONE.
4. AVOID ALL LAND DISTURBANCES WITHIN 50 FEET OF THE OHGW ELEVATION OF THE NORTH POND, EXCEPT WHERE NECESSARY FOR THE INSTALLATION OF SILT FENCE AND CONSTRUCTION ACTIVITIES DEFINED IN THE PROJECT PLANS.
5. CONTRACTOR TO MAINTAIN THE RIPARIAN BUFFER ZONE IN ITS NATURAL CONDITION.

6. DISPOSE OF SEDIMENTS AND OTHER POLLUTANTS THAT HAVE BEEN COLLECTED AND REMOVED IN THE COURSES OF STORMWATER TREATMENT IN A MANNER THAT WILL NOT RESULT IN THE SEDIMENTS AND POLLUTANTS ENTERING WATERS OF THE STATE. DISPOSAL SITES REQUIRE RELATIVELY LEVEL TERRAIN WITH AN ISOLATION DISTANCE OF AT LEAST 100 FEET FROM ANY SURFACE WATERS, INCLUDING WETLANDS.
7. OFF-SITE DISCHARGES OF ANY MATERIAL OTHER THAN STORMWATER, SUCH AS VEHICLE AND EQUIPMENT MAINTENANCE SPILLS, FUELS, WASH WATER, CONSTRUCTION DEBRIS, OIL, WET CONCRETE (INCLUDING WASHOUT WATER FROM CONCRETE BATCH TRUCKS OR EQUIPMENT USED TO MIX CONCRETE), AND OTHER SUBSTANCES, ARE PROHIBITED.
8. SILT FENCE SHALL NOT BE UTILIZED IN AREAS OF CONCENTRATED FLOWS, SUCH AS CHANNELS OR DITCHES.
9. DISPOSAL OF SEDIMENT IN A WETLAND, THE WINOOSKI RIVER OR THE NORTH POND IS PROHIBITED. THE FAILURE TO PROMPTLY ABATE THE DISCHARGE OF SEDIMENT OR ANY OTHER WASTE WHICH CAUSES A VISIBLE DISCOLORATION OF SURFACE WATERS (INCLUDING WETLANDS), OR IS FOUND TO BE VIOLATING WATER QUALITY STANDARDS BASED ON MONITORING, IS PROHIBITED. PRIOR AUTHORIZATION OF RESIDENT ENGINEER IS REQUIRED FOR ANY CORRECTIVE ACTION IN A WETLAND
10. THE MAXIMUM AREA OF DISTURBED EXPOSED SOIL AT ANY POINT IN TIME SHALL NOT EXCEED 5 ACRES.
11. CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SEQUENCING AND PHASING SCHEDULE/PLAN TO THE ENGINEER FOR APPROVAL AT OR PRIOR TO THE PRECONSTRUCTION MEETING.

PRECONSTRUCTION NOTES

1. CONTRACTOR TO ESTABLISH LIMITS OF SOIL DISTURBANCE, LOCATION(S) OF SOIL STOCKPILES, CONSTRUCTION STAGING AREAS, STORAGE AREAS, REFUELING AND MAINTENANCE AREAS. LIMITS TO BE DEMARCATED WITH PROJECT DEMARCATION FENCING (PDF) WHICH CONSISTS OF 4 INCH WIDE TAPE ATTACHED TO STAKES, SPACED AT REGULAR INTERVALS.
2. CONTRACTOR TO ESTABLISH AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES (ALONG THE WINOOSKI RIVER, AND NORTH POND) WITH BARRIER FENCING (SNOW FENCING).
3. COMPLETE STABILIZATION OF SITE CONCURRENTLY WITH COMPLETION OF FINAL GRADING.
4. THE CONTRACTOR SHALL UTILIZE THE EXISTING ENTRANCE AREA OFF TH-16 (COBURN ROAD) TO ACCESS THE SITE DURING THE CONSTRUCTION PERIOD. AN ENTRANCE STABILIZATION PAD WILL BE CONSTRUCTED AT THE ENTRANCE.
5. CONCURRENT WITH CONSTRUCTION OF THE STABILIZED ENTRANCE, THE CONTRACTOR SHALL INSTALL A 6 FOOT HIGH CHAIN LINK FENCE WITH STEEL POSTS AND 24 FOOT WIDE LOCKING ACCESS GATE AT THE CONSTRUCTION ENTRANCE TO SECURE ACCESS TO THE SITE IN ACCORDANCE WITH STANDARD DRAWINGS F-2 AND F-4 AND AS DIRECTED BY ENGINEER.
6. ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMITS OF CONSTRUCTION AS IDENTIFIED ON THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
7. THE EXISTING ACCESS OFF US ROUTE 2 WILL BE USED FOR VAST ACCESS ONLY. THE ACCESS WILL BE UPGRADED AS SHOWN ON THE PLANS. FOUR- FOOT CHAIN LINK FENCE SHALL BE ADDED AT THE SOUTHWESTERN END OF THE EXISTING DRIVE GATE AS SHOWN ON THE PLANS IN ACCORDANCE WITH STANDARD DRAWINGS F-2 AND F-4 AND AS DIRECTED BY THE ENGINEER.
8. THE ENGINEER SHALL STAKE OUT THROUGH FIELD SURVEY THE LOCATION OF ALL PLANTING AND SEEDING AREAS, USING THE STATIONS AND OFFSETS AND COORDINATES PROVIDED ON THE LANDSCAPE PLANS. THE ENGINEER IN CONSULTATION WITH THE AGENCY'S FIELD NATURALIST, MAY ADJUST THE STAKES, AS APPROPRIATE PRIOR TO INSTALLATION.

CONSTRUCTION SEQUENCE

1. STABILIZED CONSTRUCTION ENTRANCES OR VEHICLE TRACKING PADS WILL BE UTILIZED TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY OR STREETS.
2. VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILER OR OTHER HIGH TRAFFIC AREAS SHALL BE EXISTING GRAVEL SURFACE. FOLLOWING COMPLETION OF CONSTRUCTION, NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TOP SOILED, TILLED, RAKED, SEEDED AND MULCHED.
3. ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH SILT FENCE OR OTHER ACCEPTABLE SEDIMENT BARRIER.
4. CONSTRUCTION HAUL ROADS SHALL BE MAINTAINED WITH A STABLE SURFACE. IN THE EVENT THAT A PORTION OF THE HAUL ROADS IS DEEMED UNSTABLE, THE CONTRACTOR SHALL IMPLEMENT STABILIZATION MEASURES, AS DIRECTED BY THE RESIDENT ENGINEER. THE EXISTING INTERNAL ROADWAY SHALL BE USED TO THE EXTENT POSSIBLE DURING CONSTRUCTION, AND REMOVED PRIOR TO COMPLETION OF THE PROJECT.

5. EROSION MATTING SHALL BE PLACED CONCURRENTLY WITH FINAL GRADING, WHERE INDICATED ON THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER OR ON-SITE PLAN COORDINATOR.
6. WEATHER CONDITIONS WILL BE MONITORED DURING THE CONSTRUCTION SEASON. IF AN EXTENDED RAIN PERIOD OR HEAVY RAIN IS PREDICTED AND IT IS DETERMINED NECESSARY BY THE RESIDENT ENGINEER, WORK MAY BE SUSPENDED OR LIMITED DURING THE STORM.
7. A LIST OF THE EXPECTED EPSC MEASURES AND THE LOCATIONS THAT THEY WILL BE EMPLOYED ARE OUTLINED IN THE FOLLOWING TABLE. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ON-SITE PLAN COORDINATOR OR THE RESIDENT ENGINEER, DEPENDING UPON ACTUAL FIELD CONDITIONS ENCOUNTERED.

PROJECT DEMARCATION FENCING	PROJECT-WIDE (SEE PLANS FOR LOCATIONS)
BARRIER FENCING	PROJECT-WIDE (SEE PLANS FOR LOCATIONS)
SILT FENCE	PROJECT-WIDE (SEE PLANS FOR LOCATIONS)
SEED, MULCH & MATTING	PROJECT-WIDE (SEE PLANS FOR LOCATIONS)
VEHICLE TRACKING PADS	(SEE PLANS FOR LOCATIONS)
SURFACE ROUGHENING	AS NEEDED, WHERE DEEMED APPROPRIATE
SOIL AMENDMENTS	EMBANKMENTS
ROLLED ECP	PROJECT-WIDE
STABILIZED CONSTRUCTION ROAD	SLOPES IN EXCESS OF 3:1
	EXISTING INTERIOR ROADWAY

STABILIZATION NOTES

1. SEED AND MULCH WILL BE USED FOR BOTH PERMANENT AND TEMPORARY STABILIZATION MEASURES. ROLLED EROSION CONTROL PRODUCT (RECP) WILL BE USED IN PLACE OF MULCH FOR SLOPES GREATER THAN 1V:3H. MULCH WILL BE APPLIED AT THE STANDARD APPLICATION RATE SHOWN ON THE LANDSCAPE PLANS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. SOIL STOCKPILES AND DISTURBED AREAS THAT WILL NOT BE WORKED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED WITH MULCH/RECP WITHIN 48 HOURS.
3. SOIL STOCKPILES AND DISTURBED AREAS THAT WILL NOT BE WORKED FOR MORE THAN 30 DAYS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH/RECP WITHIN 48 HOURS.
4. EXPOSED AREAS THAT HAVE ACHIEVED FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 48 HOURS.
5. IN AREAS WHERE VEGETATIVE COVER WILL PROVIDE PERMANENT STABILIZATION, SEEDING TO BE COMPLETED BETWEEN APRIL 15 AND SEPTEMBER 15 OR AS OTHERWISE DIRECTED IN THE LANDSCAPE PLANS.

INSPECTION & MONITORING NOTES

1. CONTRACTOR TO CONDUCT INSPECTIONS AND MONITORING IN ACCORDANCE WITH SPECIAL PROVISIONS AND SPECIFIC PERMIT REQUIREMENTS.
2. THE CONTRACTOR SHALL KEEP TWO (2) TURBIDITY MONITORS ONSITE AND HAVE PERSONNEL ON HAND THAT ARE TRAINED IN THEIR OPERATION.

WINTER CONSTRUCTION REQUIREMENTS

1. NO CONSTRUCTION ACTIVITIES SHALL OCCUR DURING THE WINTER PERIOD BETWEEN OCTOBER 15 AND APRIL 15 UNLESS APPROVED BY THE RESIDENT ENGINEER AND ANR.

PROJECT NAME:	CABOT-DANVILLE	
PROJECT NUMBER:	FEGC F 028-3(26)	
FILE NAME:	xd079GN.dgn	PLOT DATE:
PROJECT LEADER:	C.W. BRODIE	DRAWN BY:
DESIGNED BY:	C.W. BRODIE	CHECKED BY:
EROSION CONTROL NARRATIVE		SHEET
		220
		OF
		250