

EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

PROJECT IS LOCATED IN THE TOWN OF CAMBRIDGE, COUNTY OF LAMOILLE, ON VT ROUTE 108, BEGINNING AT APPROXIMATELY MILE MARKER 7.84 AND EXTENDING NORTHERLY 0.11 MILES TO MILE MARKER 7.95.

THIS PROJECT INVOLVES DIRECTIONAL BORING, DRAIN CURTAIN, UNDERDRAIN, DRAINAGE STRUCTURES, SUBBASE, PAVEMENT, GUARDRAIL AND OTHER RELATED ITEMS.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 0.75 ACRES EXCLUDING WASTE, BORROW AND STAGING AREAS.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST LESS THAN TWO CONSTRUCTION SEASONS.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

THE PROJECT SITE CONSISTS OF PAVEMENT, MEDIUM UPHILL SLOPES AND STEEP DOWNHILL SLOPES. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE HAS DITCHING AND SIX INCH UNDERDRAIN THAT WILL COLLECT WATER TO THE DROP INLET THEN CARRIED BY AN 18 INCH PIPE TO THE UNNAMED TRIBUTARY. AN EIGHT INCH UNDERDRAIN WITHIN THE DRAIN CURTAIN WILL REDUCE THE EXISTING WATER TABLE; THIS SITE WILL COLLECT MEDIUM OFF SITE RUNOFF.

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

WATER IS COLLECTED FROM ROADWAY DITCHING AND DRAIN CURTAIN THAT ULTIMATELY DRAINS TO AN UNNAMED TRIBUTARY TO THE BREWSTER RIVER. THE PROJECT SITE IS APPROXIMATELY 225 FEET FROM THE BREWSTER RIVER. NO WETLANDS ARE WITHIN THE PROJECT AREA.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE TOPOGRAPHY OF THE WORK AREA IS IN A RURAL SETTING WITH MEDIUM UPHILL SLOPES AND STEEP DOWNHILL SLOPES. VT ROUTE 108 RUNS THROUGH THE PROJECT WITH HOUSES SOUTH AND NORTH OF THE PROJECT AREA. OVERHEAD UTILITIES ARE WITHIN THE PROJECT AREA BUT WILL NOT BE IN CONFLICT WITH CONSTRUCTION.

1.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF GRADUAL TO STEEP GRASS SIDE SLOPES INCLUDING TREES.

1.2.5 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF LAMOILLE, VERMONT. SOILS ON THE PROJECT SITE ARE

MUNAME - SOIL NAME, SLOPE, K
BERKSHIRE AND MARLOW SOILS, 15 TO 50 PERCENT SLOPES, k=0.24

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MEDIUM EROSION POTENTIAL; 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.6 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: UNNAMED TRIBUTARY TO THE BREWSTER RIVER.
WETLANDS: NO

1.3 RISK EVALUATION

THIS 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, THEN 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 WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION CONTROLS.

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

1.4.1 MARK SITE BOUNDARIES

PROJECT DEMARCATION FENCING, DENOTED ON THE PLANS AS -PDF- IS USED TO DELINEATE THE LIMIT THE CONTRACTOR CAN WORK TO WITH CONSTRUCTION EQUIPMENT. INSIDE THIS LIMIT, THE AREA CAN BE DISTURBED.

1.4.2 LIMIT DISTURBANCE AREA

EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION PROCEEDS. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ENGINEER.

1.4.3 STABILIZE CONSTRUCTION EXIT

NOT APPLICABLE

1.4.4 INSTALL SILT FENCE

SILT FENCE WILL BE INSTALLED ON THE DOWN HILL SLOPE SIDE BEHIND THE EXISTING GUARDRAIL.

1.4.5 DIVERT UPLAND RUNOFF

UPLAND RUNOFF WILL BE DIVERTED DOWN GRADE BY TEMPORARY AND EXISTING DITCH. DOWN HILL SIDE SLOPE RUNOFF FROM THE ROADWAY WILL BE DIVERTED BY SILT FENCE.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

TEMPORARY CHECK DAM WILL BE CONSTRUCTED FOR UPLAND RUNOFF.

1.4.7 CONSTRUCT PERMANENT CONTROLS

TYPE II STONE PAD FROM THE PIPE OUTLETS THROUGH THE UNNAMED TRIBUTARY ENDING AT THE CONSTRUCTION LIMITS ALONG WITH TYPE I STONE FOR DITCHING.

1.4.8 STABILIZE EXPOSED SOILS

SEED, MULCH AND TEMPORARY EROSION MATTING

SEEDING AND MULCHING SHALL BE USED TO STABILIZE ALL DISTURBED AREAS. THESE DISTURBED AREAS SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

SEEDING, MULCHING, TEMPORARY EROSION MATTING OR STONE FILL SHALL BE USED TO STABILIZE ALL SLOPES >3:1. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

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

SEED AND MULCH

SEEDING AND MULCHING SHALL BE USED TO STABILIZE ALL DISTURBED AREAS. THESE DISTURBED AREAS SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

1.4.11 DE-WATERING ACTIVITIES

DRAIN CURTAIN INSTALLATION WILL BE DEWATERED INTO EXISTING/TEMPORARY DITCH LINE WHICH WILL RUN TO A TEMPORARY CHECK DAM. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL MEASURES.

1.4.12 INSPECT YOUR SITE

THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND AFTER EVERY RAIN EVENT OR SNOW MELT THAT RESULTS IN A DISCHARGE FROM THE SITE.

EPSC NARRATIVE

PROJECT NAME:	CAMBRIDGE		
PROJECT NUMBER:	STP 0235(9)		
FILE NAME:	d087c152_frm.DGN	PLOT DATE:	28-JUL-2009
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