

EROSION CONTROL NARRATIVE

DESCRIPTION OF PROJECT

THIS PROJECT INVOLVES THE CONSTRUCTION OF A TRAFFIC SIGNAL SYSTEM LOCATED AT THE INTERSECTIONS OF VT.78 AND ROBIN HOOD DRIVE IN THE TOWN OF SWANTON.

IT IS ANTICIPATED THIS PROJECT WILL LAST ONE SEASON.

TOTAL DISTURBED AREA IS 7600 SQUARE FEET OR .15 ACRES. THIS AREA DOES NOT INCLUDE THE WASTE, BORROW AND STAGING AREAS. THESE AREAS ARE GOING TO BE 1.5 ACRES +/-.

THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE LOCATION OF THE WASTE, BORROW AND STAGING AREA. ALSO THE MATERIAL STOCKPILE, REFUELING AND MAINTENANCE AREAS. THEY ARE TO ATTACH A MAP IF NECESSARY.

SITE INVENTORY & ANALYSIS

OFF SITE DRAINAGE CHARACTERISTICS:

INSIDE OF THE STATE RIGHT-OF-WAY AND THE PROPERTIES SURROUNDING THE PROJECT CONSIST OF ESTABLISHED VEGETATION OF GRASSES AND WOODED AREAS.

DRAINAGE, WATERWAYS, BODIES OF WATER:

AREA DRAINAGE IS CONVEYED VIA GRASS SURFACES, CLOSED DRAINAGE SYSTEM, CULVERTS AND DITCHES.

THE FOLLOWING DESCRIPTIONS ARE FOR THE EXISTING SITE PLAN:
SURFACE DRAINAGE FROM BROWN ROAD IS CONVEYED VIA A CLOSED DRAINAGE SYSTEM THAT FLOWS WEST ALONG THE NORTH SIDE OF VT. 78.

DRAINAGE FLOWS FROM THE MISSISQUOI STREET AREA VIA A CULVERT UNDER ROUTE 78 AT STATION 15+39 INTO A DITCH THAT FLOWS SOUTH ALONG ROBIN HOOD DRIVE.

DRAINAGE FLOWS FROM THE NORTHWEST AREA OF THE PROJECT FROM STATION 15+50 ~ 21+05 RT. VIA A NUMBER OF CULVERTS THAT DRAIN INTO A DROP INLET AT STATION 18+55 RT. IT FLOWS UNDER ROUTE 78 INTO A DITCH ON THE LEFT SIDE OF RT 78. IT THEN FLOWS WEST INTO THE SAME DITCH THAT THE PIPE AT ST. 15+39 FLOWS INTO. THIS DITCH ALSO COLLECTS WATER FROM THE RT. SIDE OF RT. 78.

TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES:

THE GENERAL TOPOGRAPHY OF THE AREA IS BASICALLY FLAT WITH A SLIGHT SLOPE TO THE WEST.

ALL ROAD SURFACES IN THE PROJECT AREA ARE BITUMINOUS CONCRETE PAVEMENT.

THIS PROJECT IS LOCATED IN THE VILLAGE AND TOWN OF SWANTON WHICH IS A MORE URBAN TYPE AREA. THERE ARE MANY SMALL BUSINESS BUILDINGS ADJACENT TO THE ROADWAY. ALL ELECTRICAL UTILITIES ARE LOCATED ABOVE GROUND WITH A MAJOR DISTRIBUTION LINE CROSSING THE PROJECT.

VEGETATION:

VEGETATION ALONG ALL OF THE ROADWAYS CONSISTS OF RESIDENTIAL LAWNS AND SIDEWALKS WITH A DISPERSION OF SHRUBS, HARDWOOD AND SOFT WOOD TREES.

SOILS:

THE SOIL TYPE IN THE VICINITY OF THE BEGINNING OF THE PROJECT TO ROBIN HOOD DRIVE IS WIDSOR LOAMY FINE SAND 0 TO 3 PERCENT SLOPE. FROM ROBIN HOOD DRIVE TO END OF PROJECT IS MISSISQUOI LOAMY FINE SAND 0 TO 3 PERCENT SLOPE.

SENSITIVE RESOURCE AREAS:

AS PER JONN LEPORE (TRANSPORTATION BIOLOGIST) MEMO DATED JANUARY 11, 2005 THERE ARE NO IMPACT ON ANY WETLAND, WATERCOURSE, RARE/THREATENED/ENDANGERED SPECIES, AGRICULTURAL SOILS, FLOODPLAINS, FISHERIES OR DEER WINTERING AREAS.

PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES:

THERE ARE NO NATURAL OR MAN-MADE WATER FEATURES ON THIS PROJECT.

GENERAL EROSION & SEDIMENT CONTROL GUIDELINES

GENERAL EROSION CONTROL PLANS ARE INTENDED AS A GUIDE FOR PREVENTING SOIL EROSION AND CONTROLLING SEDIMENT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE DURATION OF THE PROJECT TO CONTROL EROSION AND MINIMIZE THE SEDIMENTATION OF THE RECEIVING WATERS.

AN ALTERNATE TEMPORARY EROSION CONTROL PLAN WILL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE AGENCY OF TRANSPORTATION.

THE CONTRACTOR WILL USE OTHER TEMPORARY OR PERMANENT EROSION CONTROL DEVICES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION AND AS DIRECTED BY THE RESIDENT ENGINEER. SEE SECTION 105.23 OF THE 2001 VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE CONTRACTOR SHALL COORDINATE THE INSTALLATION, USE, AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES WITH CONSTRUCTION ACTIVITIES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION AND SEDIMENT CONTROL. THE CONTRACTOR SHALL EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES AS CONSTRUCTION ACTIVITIES PROCEED.

THE RESIDENT ENGINEER MAY DIRECT THE INSTALLATION OF CERTAIN EROSION CONTROL MEASURES IN ORDER TO AVOID POTENTIAL EROSION PROBLEMS, OR TO RESPOND TO STORM EVENTS OR DAMAGE BY CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SEQUENCED IN THE "SPECIFIC GUIDELINES", OR AS DIRECTED BY THE RESIDENT ENGINEER. THE TYPE, SIZE, AND LOCATION OF ANY EROSION CONTROL DEVICES SHALL NOT BE CHANGED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE RESIDENT ENGINEER. ANY APPROVED CHANGES SHALL BE NOTED ON THE EROSION CONTROL PLANS AND DISCUSSED IN THE WEEKLY REPORT. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RAINFALL EVENT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED EROSION CONTROL MEASURES IMMEDIATELY. ALL EROSION CONTROL MEASURES THAT TRAP SEDIMENT, SUCH AS SEDIMENT BASINS, SHALL BE CLEANED OUT WHEN THEIR CAPACITY REACHES 50%.

THE RESIDENT ENGINEER'S APPROVAL SHALL BE OBTAINED PRIOR TO INSTALLING ANY EROSION CONTROL NOT SPECIFIED IN THE EROSION CONTROL PLANS. HOWEVER, IN EMERGENCY SITUATIONS WHERE THE RESIDENT ENGINEER IS NOT IMMEDIATELY AVAILABLE, THE CONTRACTOR SHOULD REPAIR OR INSTALL THE EROSION CONTROLS AS HE/SHE DEEMS NECESSARY AND REPORT THE INCIDENT TO THE RESIDENT ENGINEER AS SOON AS PRACTICAL.

THE CONTRACTOR SHALL CONTROL ALL SEDIMENT-LADEN RUNOFF GENERATED WITHIN THE PROJECT SITE.

IN GENERAL, PRESERVE EXISTING VEGETATION, SHRUBS, AND TREES WHENEVER POSSIBLE.

IF USED, SILT FENCE SHALL BE PLACED AT THE TOES OF ALL FILL SLOPES AND SHALL BE CONSTRUCTED SO THAT FLOWS CANNOT BYPASS THE ENDS. AREAS DIRECTLY BELOW (DOWNHILL) OF THE SILT FENCES MUST BE UNDISTURBED AND VEGETATED.

STRAW MATTING WILL BE INSTALLED AS SOON AS PRACTICAL ON ALL CUT & FILL SLOPES.

AS CONSTRUCTION PROGRESSES, IMPLEMENTATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE ON-SITE COORDINATOR AND AS APPROVED BY THE RESIDENT ENGINEER.

THE PROJECT COMPLETION DATE HAS BEEN SET FOR MID-OCTOBER. TO ENSURE THAT THE ESTABLISHMENT OF PERMANENT VEGETATION WILL OCCUR DURING THE GROWING SEASON, SEEDING SHOULD OCCUR PRIOR TO SEPTEMBER 15. THEREFORE, WINTER STABILIZATION METHODS WILL NOT BE SHOWN ON THE PLANS OR DESCRIBED IN THE NARRATIVE.

INFORMATION REQUIRED BY THE CONTRACTOR PRIOR TO CONSTRUCTION

MUCH OF THE INFORMATION SHOWN ON THE EROSION CONTROL PLANS AND DESCRIBED IN THIS NARRATIVE IS GENERAL IN NATURE. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PLAN THAT IS SPECIFIC TO HIS/HER SCHEDULE AND CONSTRUCTION METHODS. THE FOLLOWING LIST OUTLINES SOME OF THE SPECIFIC INFORMATION THAT SHOULD BE SUBMITTED WITH THE CONTRACTOR'S EPSCP:

LOCATION OF WASTE, BORROW AND STAGING AREAS, MATERIAL STOCKPILES, REFUELING AND MAINTENANCE AREAS (ATTACH MAP IF NECESSARY)

DISCUSSION AND ADDITIONAL DETAILS NEEDED FOR PROTECTION AND STABILIZATION

PROPOSED MODIFICATIONS AS REQUIRED TO THESE EROSION AND SEDIMENT CONTROL PLANS

PROPOSED DATES ASSOCIATED WITH JOB MILESTONES AS INDICATED ON THE SEQUENCE CONSISTENT WITH PROJECT CPM SCHEDULE

NARRATIVE (RE: TEMPORARY SEEDING AND MULCHING / STABILIZATION)

DETAILS FOR EROSION CONTROL METHODS

NAME, ADDRESS, PHONE NUMBER AND BASIC QUALIFICATIONS OF "ON-SITE COORDINATOR"

PROJECT NAME:	SWANTON
PROJECT NUMBER:	STPG ST 036-1(II)
FILE NAME:	traffic/00b150/db150tit.dgn
PROJECT LEADER:	B. NYQUIST
DESIGNED BY:	G. MEUNIER
	tb150ecl.i
PLOT DATE:	19-APR-2006
DRAWN BY:	G. MEUNIER
CHECKED BY:	G. MEUNIER
	SHEET 25 OF 45