

EROSION CONTROL NARRATIVE

THE CONTRACTOR SHALL INSTALL EROSION MATTING AND SEED AND MULCH ALL AREAS NOT ANTICIPATED TO BE WORKED ON FOR 21 DAYS OR MORE. TO ASSURE A VIGOROUS CATCH OF VEGETATIVE COVER, SEEDING AND MULCHING SHALL BE COMPLETED BY SEPTEMBER 15TH TO THE EXTENT POSSIBLE, OR AS DIRECTED BY THE RESIDENT ENGINEER. SEEDING MIXTURES AND RATES ARE SPECIFIED IN THE TYPICAL SECTIONS OF THE CONTRACT PLANS AND HAVE BEEN ADOPTED FROM THE 2003 DRAFT VERMONT HANDBOOK FOR SOIL EROSION AND SEDIMENT CONTROL ON CONSTRUCTION SITES FOR SEEDING MIXTURE TYPE 'E' AND TYPE 'C'. THE TYPE 'E' SEEDING MIXTURE WAS CHOSEN BASED ON ITS ANTICIPATED PERFORMANCE GIVEN THE EXISTING AND PROPOSED SOIL CONDITIONS (WELL DRAINED) AND USAGE ALONG EMBANKMENT AND CUT SLOPES. TYPE 'C' WAS CHOSEN BASED ON ITS ANTICIPATED PERFORMANCE IN THE GRASS DITCHES AND AREAS SUBJECT TO CONCENTRATED WATER FLOW. FERTILIZING AND LIME APPLICATION RATES ARE ALSO SPECIFIED IN THE TYPICAL SECTIONS. ALL SEDIMENT AND EROSION PREVENTION AND CONTROL MEASURES SHALL BE COMPLETED AND BE IN PLACE BEFORE THE CONTRACTOR CAN BEGIN ADDITIONAL WORK.

TO PREVENT CONSTRUCTION EQUIPMENT FROM UNNECESSARILY DISTURBING SOIL OR VEGETATION THE CONTRACTOR SHALL INSTALL PROJECT DEMARCATION FENCING (PDF) AS SHOWN ON THE PLANS; GENERALLY JUST BEYOND THE PROPOSED SILT-FENCE OR 10' OFF OF THE REQUIRED SOIL DISTURBANCE LIMIT IF SILT FENCE IS NOT PROPOSED. THE LIMITS OF THE PDF ARE SHOWN ON THE PLANS. THE PDF PROVIDES A PHYSICAL BOUNDARY THAT THE CONTRACTOR MUST NOT DISTURB BEYOND. THE PDF MUST BE INSTALLED AT THE BEGINNING OF THE PROJECT. WHENEVER DAMAGED; THE CONTRACTOR MUST IMMEDIATELY REPAIR OR REPLACE THE PDF.

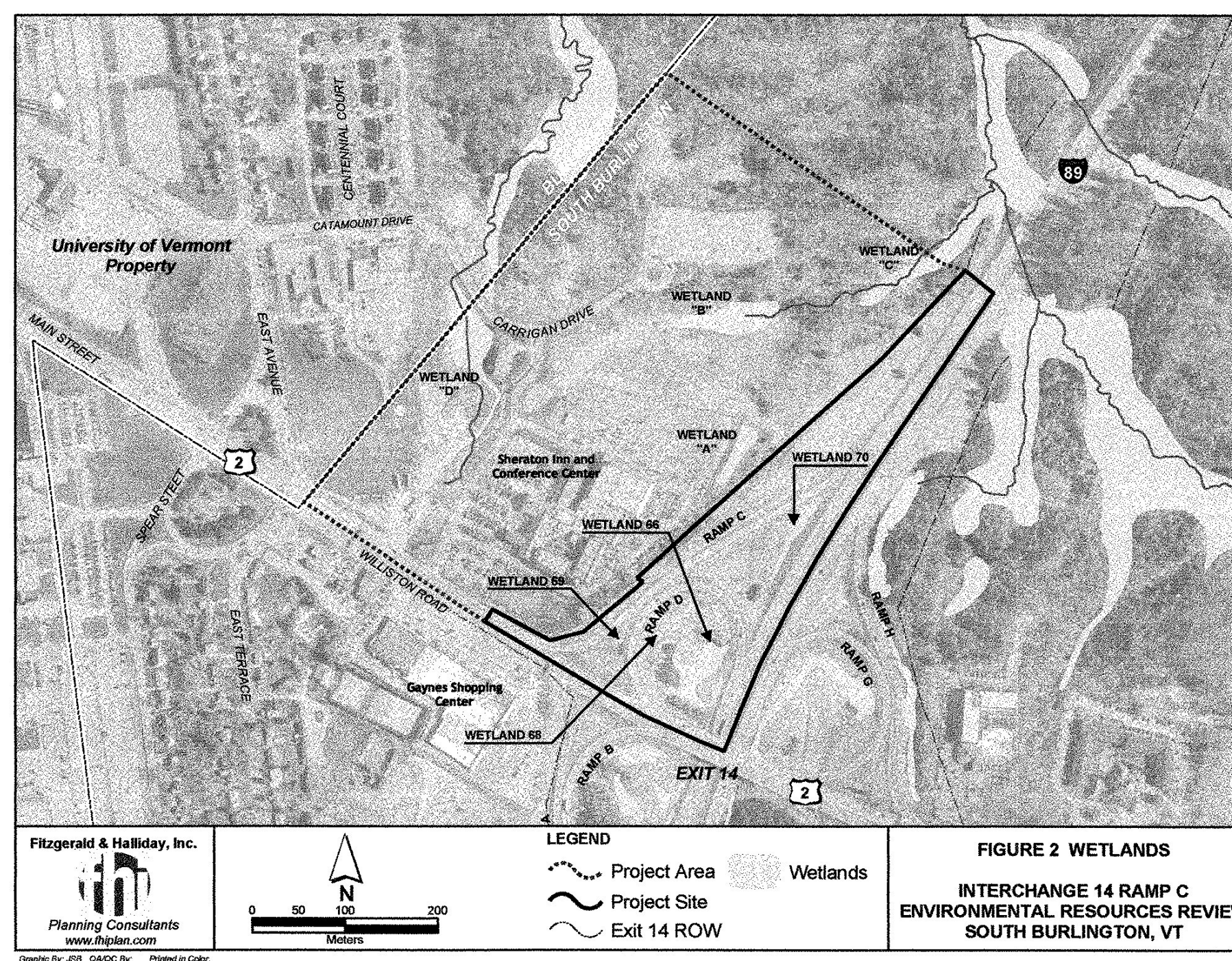
THE CONTRACTOR SHALL ALSO IMMEDIATELY ROUGHEN ALL DISTURBED SOIL SURFACES TO THE SATISFACTION OF THE RESIDENT ENGINEER BY THE USE OF TRACK DRIVEN BULLDOZERS, SHEEPSFOOT ROLLERS OR OTHER APPROVED METHODS. THE CONTRACTOR SHALL APPLY DUST CONTROL MEASURES OVER EXPOSED SURFACES NOT INTENDED TO BE VEGETATED. THE ON-SITE PLAN COORDINATOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND AS SOON AS POSSIBLE BUT NOT MORE THEN 24 HOURS AFTER ANY STORM EVENT.

AS DISCUSSED PREVIOUSLY, THE PROPOSED ROADWAY EMBANKMENTS ARE GENERALLY 4:1. WHERE EMBANKMENT OR CUT SLOPES ARE 3:1 OR GREATER AND WITHIN THE GRASS CHANNELS; EROSION MATTING IS PROPOSED. WHERE EMBANKMENT OR CUT SLOPES EXCEED 2:1, STONE FILL, TYPE II IS PROPOSED FOR SLOPE STABILIZATION AND EROSION PREVENTION. THE CONTRACT PLANS TYPICAL SECTIONS AND DETAIL SHEETS CONTAIN DETAILS OUTLINING THE PROPER INSTALLATION AND MAINTENANCE OF THESE MEASURES. THE CONTRACTOR SHALL BE REQUIRED TO SUPPLEMENT THE EROSION PREVENTION AND SEDIMENT CONTROL PLANS IN THE CONTRACT PLANS WITH SPECIFIC METHODS OF INSTALLATION AND PRODUCT LITERATURE AS NECESSARY FOR APPROVAL BY THE RESIDENT ENGINEER.

TEMPORARY STONE CHECK DAMS ARE PROPOSED ALONG THE PROPOSED ROADSIDE GRASS DITCHES TO REDUCE WATER VELOCITIES AND ALLOW ANY SUSPENDED SEDIMENTS TO FALL OUT OF SUSPENSION BEFORE THEY REACH THE DOWNSTREAM RESOURCE AREAS. TEMPORARY STONE CHECK DAMS ARE PROPOSED IN THE ROADSIDE DITCHES TO REDUCE WATER VELOCITIES AND REDUCE SCOUR SO THAT A HEALTHY CATCH OF VEGETATION CAN BE ESTABLISHED OR BEFORE THE STONE IS PLACED IN THE DITCH. THE TEMPORARY CHECK DAMS SHALL BE SPACED TO ALLOW SUSPENDED SEDIMENT TO FALL OUT OF SUSPENSION. ONCE THE VEGETATION IS ESTABLISHED OR THE STONE HAS BEEN PLACED THE TEMPORARY STONE CHECK DAMS SHALL BE REMOVED. THE CONSTRUCTION AND PLACEMENT OF THE TEMPORARY STONE CHECK DAMS SHALL BE IN ACCORDANCE WITH THE DETAILS IN THE CONTRACT PLANS TYPICAL DETAILS OR AS DIRECTED BY THE RESIDENT ENGINEER. PERMANENT STONE PADS WILL BE PLACED AT THE END OF DITCHES AND CULVERTS TO DISSIPATE ENERGY AND TO PROMOTE SHEET FLOW.

IN ACCORDANCE WITH THE TYPICAL DETAILS, SILT FENCE IS PROPOSED AT THE TOE OF ALL EMBANKMENT SLOPES AND IMMEDIATELY UP HILL OF PROPOSED DITCHES IN CUTS WHERE THE EXISTING EMBANKMENTS ARE DISTURBED. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL SILT FENCES AS NECESSARY AND REMOVE COLLECTED DEBRIS AND SEDIMENT WHEN NECESSARY OR AT REGULAR INTERVALS AS DEFINED IN THE MAINTENANCE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.

LASTLY, THE CONTRACTOR SHALL DESIGNATE AN ON-SITE EROSION CONTROL COORDINATOR WHO WILL BE RESPONSIBLE FOR THE MAINTENANCE, INSPECTION AND RECORDS PROGRAM FOR ALL CONTROL MEASURES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DEVELOPING A DETAILED EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND TIMETABLE WHICH WILL BE COORDINATED WITH THE ACTUAL PROJECT CONSTRUCTION SCHEDULE AND PHASING FOR REVIEW AND APPROVAL BY VTRANS. THE FINAL EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND TIMETABLE SHALL BE SUBMITTED AND APPROVED BEFORE THE CONTRACTOR CAN COMMENCE WORK.



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