Exhibit SAD1-3(Rev.2)

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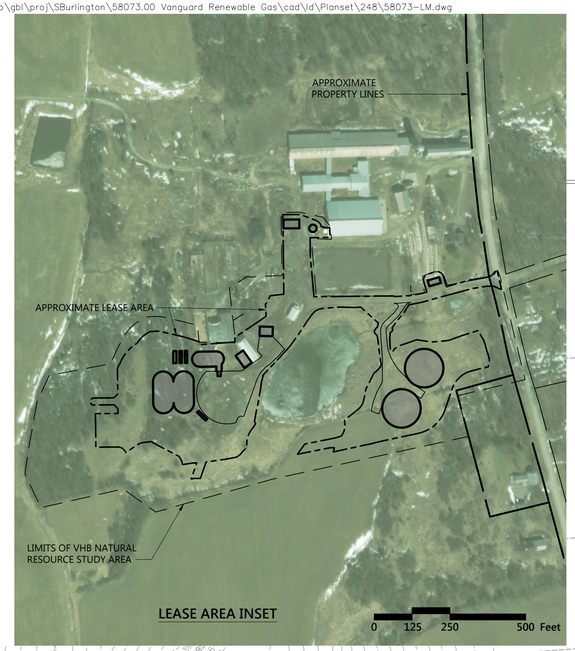

LEGEND

- EFFLUENT LINE
- FEEDSTOCK LINE
- GAS LINE
- MINOR CONTOUR
- MAJOR CONTOUR
- APPROXIMATE PROPERTY LINE
- WETLAND BOUNDARY
- WETLAND BUFFER
- RIPARIAN BUFFER
- STREAM
- EDGE OF GRAVEL
- LIMIT OF DISTURBANCE
- EXISTING TREELINE

0 25 50 100 Feet

Goodrich Farm / Salisbury AD1

615 Shard Villa Road
Salisbury, Vermont

No.	Revision	Date	Appvd.

Designed by TAS | Checked by PBS

Issued for — Date

Revised 248 Submittal — Feb. 6, 2019

Not Approved for Construction

Drawing Title

Final Project Design Site Plan

Drawing Number

C-1.01

Sheet of

Project Number

58073.00

NOTE:

1. LOCATIONS OF PREVIOUSLY CONSTRUCTED SUBSURFACE UTILITIES BASED UPON AS-BUILT UTILITY PLAN DATED 2014/10/09 BY DEWOLFE ENGINEERING ASSOCIATES.
2. EXISTING CONTOUR DATA SHOWN IS BASED UPON A COMPILATION OF EXISTING AVAILABLE LIDAR DATA AND A TOPOGRAPHIC SURVEY BY VHB, IN JUNE 2018.
3. THE "APPROXIMATE LEASE AREA" SHOWN INCLUDES SALISBURY AD1'S NON-EXCLUSIVE ACCESS RIGHTS TO THE FARM'S EXISTING ROADS, AND TO OTHER FARM LANDS NEEDED FOR CONSTRUCTION AND OPERATION OF THE PROJECT.

General

1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
3. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

Erosion Control

1. CONTRACTOR ACTIVITIES SHALL ADHERE TO THIS SITE PLAN SET, THE CONDITIONS OF THE CONSTRUCTION STORMWATER DISCHARGE PERMIT ISSUED FOR THIS PROJECT, THE VERMONT EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE (2006), AND THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL (2006, AMENDED 2008).
2. EPSC MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES WITH THE EXCEPTION OF EARTH DISTURBANCE THAT MAY RESULT FROM ACCESSING THE AREA(S) WITH EQUIPMENT IN ORDER TO INSTALL THOSE EPSC MEASURES. TEMPORARY EPSC MEASURES INTENDED TO TRAP SEDIMENT SHALL BE INSTALLED AS A FIRST STEP IN EARTH DISTURBING ACTIVITIES AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE EARTH DISTURBANCE TAKES PLACE, WITH THE EXCEPTION OF THOSE EARTH DISTURBING ACTIVITIES THAT ARE NECESSARY TO INSTALL MEASURES.
3. PROPOSED CHANGES TO THE EPSC PLAN SHALL BE APPROVED BY THE PERMITTEE OR HIS/HER DESIGNEE PRIOR TO IMPLEMENTATION.
4. PERMISSION MUST BE GRANTED BY VT DEC PRIOR TO USE OF ANY SUPPORT ACTIVITIES OCCURRING OUTSIDE OF THE APPROVED PROJECT BOUNDARIES. THIS INCLUDES USE OF OFF-SITE WASTE AND BORROW AREAS.
5. ALL PARTIES ASSOCIATED WITH CONSTRUCTION ACTIVITIES WHO MEET EITHER OF THE FOLLOWING TWO CRITERIA OF "PRINCIPAL OPERATOR"' MUST OBTAIN COVERAGE UNDER THE CONSTRUCTION STORMWATER DISCHARGE PERMIT FOR THE PROJECT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES BY THAT OPERATOR:
   a. THE PARTY HAS OPERATIONAL CONTROL OVER CONSTRUCTION PLANS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE ABILITY TO MAKE MODIFICATIONS TO THOSE PLANS AND SPECIFICATIONS; OR
   b. THE PARTY HAS CONTINUOUS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE PROJECT THAT ARE NECESSARY TO ENSURE COMPLIANCE WITH AN EPSC PLAN FOR THE SITE OR OTHER PERMIT CONDITIONS (E.G., THEY ARE AUTHORIZED TO DIRECT WORKERS AT A SITE TO CARRY OUT ACTIVITIES REQUIRED BY THE EPSC PLAN OR COMPLY WITH OTHER PERMIT CONDITIONS).

Construction EPSC Notes:

1. EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED TO THE EXTENT PRACTICABLE.
2. A VEGETATED BUFFER SHALL BE MAINTAINED FOR WATER RESOURCES (E.G., WETLANDS AND STREAMS) TO THE EXTENT PRACTICABLE.
3. TO THE EXTENT PRACTICABLE, SURFACE FLOW SHALL BE DIVERTED AWAY FROM EXPOSED SOILS AND WATER RESOURCES. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
4. RESOURCE AREAS (E.G. STREAMS) WITHIN THE PROJECT AREA SHALL BE FLAGGED PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES OCCURRING WITHIN CLOSE PROXIMITY TO THOSE AREAS.
5. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH A SEDIMENT TRAPPING DEVICE AND DISCHARGED IN A MANNER THAT DOES NOT RESULT IN IMPACTS TO WATER QUALITY OR CONTRIBUTE TO EROSION. SEE DETAILS FOR MORE INFORMATION.
6. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO THE OTHER APPLICABLE CRITERIA:
   a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
   b. EXCAVATED MATERIAL SHALL BE PLACED IN UPLAND AREAS ON THE UPHILL SIDE OF THE TRENCHES, WHERE FEASIBLE.
7. SEDIMENT REMOVED FROM SEDIMENT CONTROL PRACTICES SHALL BE DISPOSED OF IN AN UPLAND AREA WITH STABILIZATION FOLLOWING DISPOSAL OF MATERIAL.
8. IN ADVANCE OF FORECASTED RAINFALL OR SNOWMELT, EPSC MEASURES THAT ARE LOCATED IN AREAS OF ACTIVE EARTH DISTURBANCE SHALL BE INSPECTED AND REPAIRED, AS NEEDED.
9. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. DUST CONTROL SHALL BE HANDLED VIA WATER OR CALCIUM CHLORIDE APPLICATION TO ROADWAYS AND OTHER AREAS WHERE DUST MAY BE GENERATED.
10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE REGULARLY MAINTAINED TO CONTROL EQUIPMENT AND VEHICLES FROM TRACKING MATERIAL OFF SITE.
11. STUMPING AND GRUBBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROJECTS CONSTRUCTION STORMWATER DISCHARGE PERMIT AND EPSC PLAN.
12. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS SHALL COMPLY WITH THE FOLLOWING:

    CONSTRUCTION DEMARCATION:

    a. CONSTRUCTION DEMARCATION TO BE INSTALLED ALONG PERIMETER OF LIMITS OF DISTURBANCE PER THE EPSC PLANS
    b. WITHIN 50 FEET OF RESOURCE AREA, DEMARCATION MUST INCLUDE:
       - 2 TO 3 ROWS OF STAKED (OR STAPLED) 3-INCH (MIN.) ORANGE BARRIER MESH TAPE OR,
       - ORANGE CONSTRUCTION FENCE, OR
       - ORANGE SNOW FENCE
    c. WHEN GREATER THAN 50 FEET FROM A WATER RESOURCE AREA, DEMARCATION MAY INCLUDE:
       - ONE ROW OF STAKED (OR STAPLED)3-INCH (MIN.) ORANGE BARRIER MESH TAPE OR,
       - ORANGE CONSTRUCTION FENCE, OR
       - ORANGE SNOW FENCE

    PERIMETER CONTROLS:

    a. PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SEDIMENT RUNOFF AND/OR SOIL EROSION.
    b. PERIMETER CONTROLS ARE NOT TO CROSS ACTIVE ACCESS ROUTES OR PERENNIAL FLOW PATHS (E.G. A STREAM).
    c. PARTICULAR CARE IS TO BE TAKEN WHEN INSTALLING PERIMETER CONTROLS IN A WETLAND.
    d. WITHIN 50 FEET OF A WATER RESOURCE AREA, PERIMETER CONTROLS MUST INCLUDE:
       - REINFORCED SILT FENCE - TO BE REINFORCED WITH WIRE MESH, STAKED HAYBALES, OR STAKED FIBER ROLLS.
    e. WHEN GREATER THAN 50 FEET FROM A WATER RESOURCE AREA, PERIMETER CONTROLS MAY INCLUDE:
       - SILT FENCE (NON-REINFORCED), OR
       - STAKED FIBER ROLLS
    f. IN SOME AREAS WHERE THE GROUND SURFACE IS LEVEL AND THERE ARE NO PATHWAYS (E.G., DITCHES OR RUTS) THAT COULD TRANSPORT RUNOFF FROM THE PROJECT AREA, INSTALLATION OF PERIMETER CONTROLS MAY NOT BE NECESSARY PER APPROVAL BY THE ON-SITE PLAN COORDINATOR (OSPC).
    g.
    k. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

13. LIMITS OF DISTURBANCE DEMARCATION FOR AN AREA SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES. AN EXCEPTION IS EARTH DISTURBANCE THAT MAY BE NEEDED TO ACCESS THAT AREA TO INSTALL THE DEMARCATION MEASURE.

Pre-construction and Permitting Notes:

1. THE NAME AND DAYTIME PHONE NUMBER OF THE OSPC SHALL BE PROVIDED IN WRITING TO VT DEC PRIOR TO THE START OF CONSTRUCTION.
2. THE NOTICE OF AUTHORIZATION (NOA) ISSUED BY VT DEC SHALL BE POSTED IN A LOCATION THAT IS VISIBLE TO THE PUBLIC (E.G., NEAR THE CONSTRUCTION ENTRANCE).
3. A COPY OF THE EPSC PLAN SHALL BE MAINTAINED ON-SITE DURING NORMAL WORKING HOURS FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE OF FINAL STABILIZATION. THE EPSC PLAN SHALL BE MADE AVAILABLE TO VT DEC UPON REQUEST.

Winter Construction Notes:

1. WINTER CONSTRUCTION SEASON IS DEFINED BY VT DEC AS OCTOBER 15 TO APRIL 15.
2. THE FOLLOWING WINTER CONSTRUCTION CONDITIONS APPLY TO THOSE CONSTRUCTION ACTIVITIES INVOLVING EARTH DISTURBANCE BETWEEN OCTOBER 15 AND APRIL 15:
   a. FOR AREAS STABILIZED BY VEGETATION, SEED SHALL BE APPLIED NO LATER THAN SEPTEMBER 15.
   b. MULCH SHALL BE APPLIED AT DOUBLE THE REGULAR CONSTRUCTION SEASON RATE OR ROUGHLY 2 INCHES OF MULCH WITH 80 TO 90% COVER (SEE MULCH DETAIL). MULCH SHALL BE TRACKED IN OR STABILIZED WITH NETTING.
   c. ENLARGE ACCESS POINTS AS PERMITTABLE TO PROVIDE SPACE FOR SNOW STOCKPILING..
   d. LIMITS OF DISTURBANCE SHALL BE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK, AS NEEDED.
   e. CLEARED SNOW SHALL BE PLACED DOWN GRADIENT OF ALL AREAS OF DISTURBANCE WHERE FEASIBLE.
   f. SNOW SHALL NOT BE PLACED IN STORMWATER TREATMENT STRUCTURES. (E.G. BASINS)
   g. TO THE EXTENT PRACTICABLE, A MINIMUM 25-FOOT BUFFER FROM PERIMETER CONTROLS (E.G., SILT FENCE) SHALL BE MAINTAINED TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.
   h. FOR AREAS OF DISTURBANCE WITHIN 100 FEET OF A RECEIVING WATER, SILT FENCE SHALL BE REINFORCED OR ELSE REPLACED WITH PERIMETER DIKES, SWALES, OR OTHER PRACTICES RESISTANT TO THE FORCES OF SNOW LOADS.
   i. DRAINAGE STRUCTURES ARE TO BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS AS DETERMINED BY THE ON SITE PROJECT COORDINATOR.
   j. EPSC MEASURES THAT REQUIRE SOIL DISTURBANCE TO INSTALL (E.G., SILT FENCE) SHALL BE INSTALLED PRIOR TO GROUND FREEZING.
   k. SNOW AND ICE SHALL BE REMOVED TO LESS THAN 1 INCH THICKNESS PRIOR TO STABILIZATION.
   l. A 10 TO 20-FOOT WIDE STONE PAD SHALL BE USED IN AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED (E.G., AROUND THE PERIMETER OF A BUILDING, WHERE APPLICABLE.
   m. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A SNOWMELT EVENT, AREAS OF DISTURBED SOIL SHALL BE STABILIZED AT THE END OF EACH WORKDAY, UNLESS
      I. WORK IS TO CONTINUE WITHIN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST OF THE NEXT 24 HOURS OR
      II. WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E., NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G., UTILITY TRENCHES).

Temporary and Final Stabilization Notes:

1. DURING REGULAR CONSTRUCTION SEASON, ALL AREAS OF EARTH DISTURBANCE MUST BE STABILIZED WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS INITIAL 14-DAY PERIOD, ALL EARTH DISTURBANCE AREAS MUST BE STABILIZED ON A DAILY BASIS, WITH THE FOLLOWING EXCEPTIONS:
   a. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE WITHIN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS.
   b. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E., NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G., UTILITY TRENCHES).
2. DURING "WINTER CONSTRUCTION," (OCTOBER 15 TO APRIL 15) DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH DAY, WITH THE FOLLOWING EXCEPTIONS:
   a. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
   b. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E., NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G., UTILITY TRENCHES).
3. DISTURBANCE ACTIVITIES MUST BE COORDINATED TO ENSURE THAT THE ALLOWABLE CONCURRENT EARTH DISTURBANCE IS NOT EXCEEDED. THE MAXIMUM AREA OF EARTH DISTURBANCE THAT IS ALLOWED AT ANY ONE TIME IS 5.0 ACRES.
4. WORK IS TO PROCEED INCREMENTALLY, WITH STABILIZATION OCCURRING IMMEDIATELY FOLLOWING COMPLETION OF AN INDIVIDUAL AREA (E.G. ONE BUILDING PAD OR PARKING AREA)
   TEMPORARY SOIL STABILIZATION SHALL BE ACHIEVED BY MULCH, SEED AND MULCH, HYDROSEEDING WITH MULCH TACKIFIER, SOD, STONE, AND/OR ROLLED EROSION CONTROL PRODUCTS (E.G., EROSION CONTROL BLANKET). MULCH SHALL BE COMPRISED OF STRAW, HAY, COMPOST, WOOD CHIPS, WOOD STUMP GRINDINGS, AND/OR EROSION CONTROL MIX.
5. PERMANENT STABILIZATION SHALL BE ACHIEVED BY 70% VEGETATION COVER, STONE, ASPHALT, BEDROCK, OR OTHER PERMANENT MATERIAL THAT PROVIDES COMPLETE COVER OF EXPOSED SOILS.
6. AREAS THAT HAVE REACHED TEMPORARY OR FINAL STABILIZATION SHALL NOT BE CONSIDERED PART OF TOTAL AREA OF EARTH DISTURBANCE.
7. APPROPRIATE SEED MIX SHALL BE APPLIED TO DESIGNATED AREAS PER THE SEED DETAIL SPECIFICATIONS. FOR AN AREA TO BE STABILIZED FOR WINTER BY VEGETATED COVER, SEEDING MUST BE COMPLETED BY SEPTEMBER 15.
8. AREAS TO BE STABILIZED FOR WINTER THAT DO NOT HAVE ESTABLISHED VEGETATION BY OCTOBER 15 SHALL BE STABILIZED BY ANCHORED MULCH AT THE WINTER APPLICATION RATE, OR OTHER APPROVED STABILIZATION MEASURES (E.G., ROLLED EROSION CONTROL PRODUCT). DORMANT SEEDING WITH WINTER RYE IS RECOMMENDED.
9. ALL FINAL GRADE SLOPES 3H:1V AND STEEPER SHALL BE STABILIZED WITH EROSION CONTROL MATTING.
10. ALL TEMPORARY EPSC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY EPSC MEASURES ARE NO LONGER NEEDED.

ON-SITE PLAN COORDINATOR (OSPC) Requirements:

1. EPSC INSPECTION, MONITORING, AND REPORTING ARE REQUIRED PER THE CONDITIONS OF GENERAL PERMIT 3-9020 STIPULATIONS FOR MODERATE RISK SITES OR FOR PROJECTS COVERED BY AN INDIVIDUAL CONSTRUCTION STORMWATER DISCHARGE PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROLS THAT MINIMIZE OR ELIMINATE POLLUTANTS IN STORMWATER DISCHARGE.
2. INSPECTIONS CONDUCTED BY THE OSPC OR HIS/HER DESIGNEE SHALL COVER ALL AREAS OF THE SITE THAT ARE BEING ACTIVELY DISTURBED BY CONSTRUCTION OR CONSTRUCTION-RELATED ACTIVITIES, INCLUDING AREAS THAT HAVE BEEN TEMPORARILY STABILIZED.
3. INSPECTIONS BY THE OSPC SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, WITH ADDITIONAL INSPECTION FREQUENCY REQUIRED FOR RAIN EVENTS, WINTER CONSTRUCTION, AND VISIBLE DISCHARGES PER THE CONDITIONS OF PART 6 OF GENERAL PERMIT 3-9020 OR AS REQUIRED BY THE INDIVIDUAL CONSTRUCTION STORMWATER DISCHARGE PERMIT. A WRITTEN REPORT SHALL BE COMPLETED FOR EACH INSPECTION AND SIGNED BY THE OSPC. ALL REPORTS ARE TO BE MAINTAINED ON SITE AND MADE AVAILABLE TO STATE DEC REPRESENTATIVES UPON REQUEST. SEE SECTION 6.2 (G) OF GENERAL PERMIT 3-9020 OR THE CONDITIONS OF THE INDIVIDUAL CONSTRUCTION STORMWATER DISCHARGE PERMIT FOR INSPECTION REPORT REQUIREMENTS.
4. IF VISIBLY DISCOLORED STORMWATER RUNS OFF THE CONSTRUCTION SITE OR RUNS OFF THE CONSTRUCTION SITE AND DISCHARGES TO RECEIVING WATERS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CORRECT THE DISCHARGE, INCLUDING MAINTAINING EXISTING EPSC MEASURES, AND INSTALLING SUPPLEMENTAL EPSC MEASURES.
5. THE OSPC DESIGNATED TO THE PROJECT (AND HIS/HER DESIGNEE) SHALL:
   a. REVIEW VT DEC'S "ON-SITE PLAN COORDINATOR MANUAL",
   b. BE ON-SITE ON A DAILY BASIS (OR HAVE A DESIGNEE THAT IS ON SITE WHEN HE/SHE CANNOT BE),
   c. BE DIRECTLY RESPONSIBLE FOR ON-SITE IMPLEMENTATION OF THE EPSC PLAN,
   d. BE KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EPSC,
   e. POSSESS THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY,
   f. POSSESS THE SKILLS TO ASSESS THE EFFECTIVENESS OF EPSC MEASURES SELECTED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY,
   g. POSSESS THE SKILLS AND EQUIPMENT TO CONDUCT TURBIDITY MONITORING PURSUANT TO THE CONSTRUCTION STORMWATER DISCHARGE PERMIT, AND
   h. HAVE THE AUTHORITY TO STOP AND/OR MODIFY CONSTRUCTION ACTIVITIES AS NECESSARY TO COMPLY WITH THE EPSC PLAN AND THE CONSTRUCTION STORMWATER DISCHARGE PERMIT.
6. ALL PROPOSED CHANGES TO THE EPSC PLAN MUST BE APPROVED BY THE OSPC OR HIS/HER DESIGNEE, AND THE OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO IMPLEMENTATION. THE PLAN DESIGNER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) PRIOR TO IMPLEMENTATION, AND BE CONSIDERED MINOR AMENDMENTS AS DEFINED IN THE OSPC HANDBOOK. ALL MINOR AMENDMENTS ARE TO BE RECORDED USING THE MINOR AMENDMENT RECORD FORM AND MARKED ON THE MASTER OSPC PLAN SET. ALL MODIFICATIONS THAT FALL OUTSIDE OF THE MINOR AMENDMENT DEFINITION MUST BE APPROVED BY VT-DEC.
7. DURING THE REGULAR CONSTRUCTION SEASON (APRIL 15 TO OCT 15), THE OSPC OR HIS/HER DESIGNEE SHALL CONDUCT INSPECTIONS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HRS FOLLOWING A STORM EVENT RESULTING IN DISCHARGE OF STORMWATER FROM THE CONSTRUCTION SITE.
8. DURING THE WINTER CONSTRUCTION SEASON (OCT 15 TO APRIL 15), THE OSPC OR HIS/HER DESIGNEE SHALL CONDUCT INSPECTIONS ON A DAILY BASIS DURING ACTIVE EARTHWORK.
9. THE OSPC AND HIS/HER DESIGNEE(S) SHALL FOLLOW TURBIDITY MONITORING PROTOCOLS OUTLINED IN VT DEC'S "MONITORING OF TURBIDITY IN STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES" MANUAL.
10. OSPC INSPECTIONS SHALL BE DOCUMENTED USING THE VT DEC INSPECTION REPORT FORM OR A VT DEC-ACCEPTED INSPECTION REPORT FORM.
11. OSPC INSPECTION REPORTS SHALL BE MAINTAINED ON-SITE FOR THE DURATION OF THE PROJECT AND MADE AVAILABLE TO VT DEC UPON REQUEST.

EPSC Narrative:

PROJECT DESCRIPTION

THE EPSC PLAN HAS BEEN PREPARED USING GENERAL PERMIT 3-9020, PART 4.1(C) AND APPENDIX B OF THE GENERAL PERMIT 3-9020 HAS BEEN USED AS GUIDANCE IN PREPARING THE NARRATIVE. THE FOLLOWING SECTIONS (1) THROUGH (13) ADDRESS REQUIRED EPSC PLAN NARRATIVE ELEMENTS IN THE ORDER THAT THEY ARE PRESENTED IN APPENDIX B OF GENERAL PERMIT 3-9020.

1. **PROJECT TYPE AND DESCRIPTION**
   THE PROPOSED PROJECT WILL INVOLVE THE CONSTRUCTION OF A NEW ANAEROBIC DIGESTING FACILITY AT THE EXISTING GOODRICH FARM IN SALISBURY, VT.
2. **MAJOR PROJECT COMPONENTS**
   MAJOR PROJECT COMPONENTS INCLUDE: GRADING; EXPANSION OF AN EXISTING FARM ACCESS ROAD; STORMWATER MANAGEMENT SYSTEM; BUILDING CONSTRUCTION; CONSTRUCTION OF 2 ANAEROBIC DIGESTERS; NUTRIENT STORAGE TANKS; UTILITIES ASSOCIATED WITH THE DIGESTERS OPERATION; FINAL SITE GRADING; AND CLEANUP. PROPOSED EARTH DISTURBANCE THAT RESULTS FROM CONSTRUCTION ACTIVITIES SHALL BE KEPT TO A MINIMUM, WITH EPSC MEASURES SHALL BE INSTALLED PER THE EPSC PLAN PRIOR TO UPSLOPE DISTURBANCE.
3. **TOTAL EARTH DISTURBANCE**
   THE TOTAL ANTICIPATED AREA OF DISTURBANCE ASSOCIATED WITH THE PROJECT IS 8.6 ACRES. CONSTRUCTION AND STABILIZATION SHALL BE CONDUCTED PURSUANT TO THE EPSC PLAN.
4. **SEQUENCE OF MAJOR PROJECT COMPONENTS**
   THE OVERALL SEQUENCE OF CONSTRUCTION WILL GENERALLY OCCUR AS FOLLOWS PER THE PERMITTED EPSC PLAN:
   a. INSTALLATION OF PROJECT DEMARCATION FLAGGING
   b. INSTALLATION OF EPSC MEASURES IN WORK AREA(S) TO BE DISTURBED
   c. TEMPORARY SITE GRADING AND CONSTRUCTION OF ACCESS ROADS
   d. INSTALLATION OF FACILITY COMPONENTS AND CORRESPONDING UTILITIES
   e. FINAL GRADING, STABILIZATION, AND SITE CLEANUP
5. **MAXIMUM CONCURRENT EARTH DISTURBANCE**
   THE TOTAL MAXIMUM ALLOWABLE CONCURRENT EARTH DISTURBANCE IS 5 ACRES, WHILE IMPLEMENTING THE PERMITTED EPSC PLAN TO MINIMIZE POTENTIAL FOR EROSION AND SEDIMENT TRANSPORT ASSOCIATED WITH OPEN AREAS.
6. **VEGETATED BUFFERS**
   SOME AREAS OF THE PROJECT WILL DISCHARGE TO VEGETATIVE BUFFERS >50 FT PRIOR TO REACHING A WATER OF THE STATE; HOWEVER, SINCE A PORTION OF THE PROJECT WILL NOT DISCHARGE ACROSS VEGETATIVE BUFFERS >50' THIS METHOD IS NOT PROPOSED TO BE UTILIZED TO SUPPLEMENT STRUCTURAL EPSC MEASURES.
7. **DURATION OF EXPOSED SOILS**
   THE TOTAL DURATION OF EXPOSED SOIL WILL BE 14 DAYS FROM INITIAL DISTURBANCE. WHILE IMPLEMENTING THE PERMITTED EPSC PLAN TO TEMPORARILY OR PERMANENTLY STABILIZE AREAS AS SOON AS PRACTICABLE.
8. **RECEIVING WATERS**
   THE PROJECT DISCHARGES TO UNNAMED WETLAND TRIBUTARY AND UNNAMED TRIBUTARY TO THE OTTER CREEK.
9. **DRAINAGE AREAS AND SOIL TYPES**
   RUNOFF FROM THE PROJECT LEAVES THE SITE AT FIVE POINTS.
   a. DRAINAGE AREA 1 (0.74 ACRES) FARMINGTON EXTREMELY ROCKY SILT LOAM & VERGENNES CLAY
      CONSISTS TEMPORARY CONSTRUCTION IMPACTS FOR THE LAYDOWN OF SITE COMPONENTS IN A STABILIZED AREA AND FINAL SITE GRADING. DISCHARGES FROM THIS AREA SHALL SHEET FLOW APPROXIMATELY 3,000 FEET ACROSS MODERATE SLOPES COMPRISED OF FARM LAND AND WOODED VEGETATION BEFORE REACHING OTTER CREEK.
   b. DRAINAGE AREA 2 (3.04 ACRES) FARMINGTON EXTREMELY ROCKY SILT LOAM, VERGENNES CLAY, AND COVINGTON AND PANTON SILT CLAYS
      CONSISTS OF THE MAIN FACILITY WORK IN THIS AREA INCLUDES THE CONSTRUCTION OF THE FACILITY COMPONENTS, SUPPORT BUILDINGS, UTILITIES, STORMWATER MANAGEMENT TREATMENT PRACTICE AND CONVEYANCE, AND SITE ACCESS AND VEHICLE TURN AROUND AND PARKING. DISCHARGES FROM THIS AREA WILL FLOW TO THE SOUTHERN SEGMENT CLASS II WETLAND 2018-2 VIA A TEMPORARY SEDIMENT TRAP WITH A STONE OUTLET.
   c. DRAINAGE AREA 3 (0.61 ACRES) FARMINGTON EXTREMELY ROCKY SILT LOAM AND VERGENNES CLAY
      CONSISTS OF GRADING DOWN SLOPE OF THE MAIN FACILITY WORK. DISCHARGES FROM THIS AREA GENERALLY SHEET FLOW <50 FEET ACROSS MODERATE TO STEEP SLOPES COMPRISED OF WELL ESTABLISHED GRASS BEFORE REACHING THE SOUTH SEGMENT CLASS II WETLAND 2018-2.
   d. DRAINAGE AREA 4 (1.85 ACRES) FARMINGTON EXTREMELY ROCKY SILT LOAM AND VERGENNES CLAY
      CONSISTS OF CONSTRICTION OF SITE ACCESS, FACILITY UTILITIES, AND SUPPORT BUILDINGS/PROCESS COMPONENTS. DISCHARGES FROM THIS AREA WILL GENERALLY SHEET FLOW ACROSS A VEGETATED BUFFER <50 FEET COMPRISED OF WELL ESTABLISHED GRASS BEFORE REACHING THE NORTHERN SEGMENT OF CLASS II WETLAND 2018-2.
   e. DRAINAGE AREA 5 (2.36 ACRES) FARMINGTON EXTREMELY ROCKY SILT LOAM AND VERGENNES CLAY
      CONSISTS OF CONSTRUCTION OF 2 STORAGE TANKS, VEHICLE ACCESS, AND STORMWATER MANAGEMENT TREATMENT PRACTICE AND CONVEYANCES. DISCHARGES FROM THIS AREA WILL FLOW INTO THE MIDDLE SEGMENT OF CLASS II WETLAND 2018-2 VIA A TEMPORARY SEDIMENT TRAP WITH A STONE OUTLET.
10. **STREAM CROSSINGS**
    THERE ARE NO PLANNED NEW STREAM CROSSINGS. REPLACEMENT OF THE EXISTING STREAM CROSSING CULVERT SHALL OCCUR DURING DRY PERIODS WITH NO PRECIPITATION FORECAST FOR THE DURATION OF THE ANTICIPATED WORK. FINAL STABILIZATION OF THE CULVERT AREA INCLUDING STONE SCOUR PROTECTION SHALL OCCUR PRIOR TO THE NEXT FORECAST PRECIPITATION EVENT
11. **WETLAND IMPACTS**
    THERE ARE 560 SF OF PERMANENT WETLAND IMPACTS, 10325 SF OF PERMANENT BUFFER IMPACTS, AND 5590 TEMPORARY BUFFER IMPACTS TO BOTH CLASS II WETLANDS 2018-1 AND 2018-2.
12. **OFF-SITE WASTE AND BORROW AREAS**
    THE PROJECT IS EXPECTED TO NEED TO BE A FILL SITE AND TO IMPORT MATERIAL THAT IS ANTICIPATED TO BE SUPPLIED FROM EXISTING BORROW PITS AND WILL BE GRANULAR BORROW AND ENGINEERED FILL.

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Salisbury, Vermont

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Issued for | Date

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Drawing Title

Erosion Prevention and Sediment Control Notes

Drawing Number

C5.01

Sheet of

Project Number
58073.00

NOTE:

1. ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS SHEET SHALL BE INSTALLED PRIOR TO DISTURBING EARTH IN ANY OTHER AREA OF THE PROJECT.

Erosion Control Legend

Proposed

- REINFORCED SILT FENCE
- STANDARD SILT FENCE
- LIMIT OF WORK/PROJECT DEMARCATION BARRIER
- CONSTRUCTION EXIT
- LAYDOWN AREA

SOUTH LAGOON (EXISTING)

LIMIT OF DISTURBANCE (TYP.)

LIMITS OF VHB NATURAL RESOURCE STUDY AREA

WETLAND/ RIPARIAN BUFFER

CONSTRUCTION ENTRANCE (TYP)

UNUSED DUG WELL

CLASS II WETLAND 2018-2

INTERMITTENT STREAM 2018-SC-2

CLASS II WETLAND 2018-1

TEMPORARY SWALE (TYP)

DRIVEWAY CULVERT

TEMPORARY SWALE (TYP)

AREA 'A": START WORK IN THIS AREA (DA-1, DA-2, DA-3, AND DA-4) AND PROVIDE TEMPORARY OR PERMANENT STABILIZATION SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.

TEMPORARY CULVERT FOR ACCESS TO LAYDOWN ~~AND STAGING AREA~~

LAYDOWN AND STAGING AREA (TYP)

SILT FENCE (TYP)

REINFORCED SILT FENCE WITHIN 50' OF NATURAL RESOURCES (TYP)

8" PERF. PIPE

WETLAND/ RIPARIAN BUFFER

PIPE OUTLET SEDIMENT TRAP (ST1)
MIN. BOTTOM AREA 5,100 SF
HEIGHT TO STONE OVERFLOW 3 FT.
MIN. WIDTH OF STONE OVERFLOW 12 FT.

INTERMITTENT STREAM 2018-SC-1

LIMITS OF VHB NATURAL RESOURCE STUDY AREA

WETLAND/ RIPARIAN BUFFER

TEMPORARY SWALE (TYP)

PIPE OUTLET SEDIMENT TRAP (ST2)
MIN. BOTTOM AREA 1,065 SF
HEIGHT TO STONE OVERFLOW 4 FT.

TEMPORARY SWALE (TYP)

AREA "B": DO NOT START EARTH DISTURBANCE IN THIS AREA (DA-5) UNTIL TEMPORARY OR PERMANENT STABILIZATION IS PROVIDED FOR A PORTION OR THE ENTIRETY OF AREA 'A' SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.

LIMIT OF DISTURBANCE AND PROJECT DEMARCATION (BARRIER MESH TAPE/ROPE OR CONSTRUCTION SNOW FENCE TYP)

0 25 50 100 Feet

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FUTURE GOODRICH FARM SILAGE BUNKERS

EXISTING COW BARN

EXISTING FARM HOUSE

EXISTING CONCRETE SILAGE CONTAINMENT

FUTURE BARN LOCATION FOR GOODRICH FARM

SOUTH LAGOON (EXISTING)

WETLAND/ RIPARIAN BUFFER

Shard Villa Road

LIMIT OF DISTURBANCE (TYP.)

LIMITS OF VHB NATURAL RESOURCE STUDY AREA

DA-4

EXISTING GRAVEL DRIVE

UNUSED DUG WELL

CLASS II WETLAND 2018-2

INTERMITTENT STREAM 2018-SC-2

CLASS II WETLAND 2018-1

EXISTING CONCRETE SILAGE CONTAINMENT

EXISTING 2-STORY FARM BUILDINGS

DA-1

DA-2

AREA 'A": START WORK IN THIS AREA (DA-1, DA-2, DA-3, AND DA-4) AND PROVIDE TEMPORARY OR PERMANENT STABILIZATION SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.

BLOCK AND GRAVEL DROP INLET PROTECTION WITH SILT SOCK SEDIMENT TRAP (TYP)

SLOPE AWAY FROM TOP OF EMBANKMENT AND TOWARD CATCHBASIN IN CENTER OF PAVEMENT.

8" PERF. PIPE

8" SOLID PIPE

DA-3

WETLAND/ RIPARIAN BUFFER

PIPE OUTLET SEDIMENT TRAP (ST1)
MIN. BOTTOM AREA 5,100 SF
HEIGHT TO STONE OVERFLOW 3 FT.
MIN. WIDTH OF STONE OVERFLOW 12 FT.

INTERMITTENT STREAM 2018-SC-1

LIMITS OF VHB NATURAL RESOURCE STUDY AREA

WETLAND/ RIPARIAN BUFFER

DA-5

LIMIT OF DISTURBANCE AND PROJECT DEMARCATION (TYP)

PIPE OUTLET SEDIMENT TRAP (ST2)
MIN. BOTTOM AREA 1,065 SF
HEIGHT TO STONE OVERFLOW 4 FT.

AREA 'B": DO NOT START EARTH DISTURBANCE IN THIS AREA (DA-5) UNTIL TEMPORARY OR PERMANENT STABILIZATION IS PROVIDED FOR A PORTION OR THE ENTIRETY OF AREA 'A' SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.

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Construction Drainage Area Map

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Erosion Control Legend

Proposed

- REINFORCED SILT FENCE
- STANDARD SILT FENCE
- LIMIT OF WORK/PROJECT DEMARCATION BARRIER
- CONSTRUCTION EXIT
- LAYDOWN AREA

FUTURE GOODRICH FARM SILAGE BUNKERS
MANURE SEPARATION BUILDING
MANURE STORAGE TANK
EXISTING COW BARN
EXISTING FARM HOUSE
FUTURE BARN LOCATION FOR GOODRICH FARM
EXISTING CONCRETE SILAGE CONTAINMENT
SOUTH LAGOON (EXISTING)
VERMONT GAS METERING AND REGULATING STATION FINAL LOCATION TBD
WETLAND/ RIPARIAN BUFFER
Shard Villa Road
LIMIT OF DISTURBANCE (TYP.)
CONSTRUCTION ENTRANCE (TYP)
EXISTING GRAVEL DRIVE
LIMITS OF VHB NATURAL RESOURCE STUDY AREA
NUTRIENT MANAGEMENT BUILDING AND CAKE STORAGE AREA
NUTRIENT CAKE STORAGE AREA (3) - 40 YARD COVERED DUMPSTERS
UNUSED DUG WELL
CLASS II WETLAND 2018-2
INTERMITTENT STREAM 2018-SC-2
CLASS II WETLAND 2018-1
EXISTING 2-STORY FARM BUILDING
BIOGAS UPGRADER
HYDROLYZER
TEMPORARY SWALE (TYP)
DRIVEWAY CULVERT
NUTRIENT STORAGE TANK 2.5M GAL-123' DIA (OPEN-TOP TANK, NOT STORMWATER JURISDICTIONAL)
AREA 'A':START WORK IN THIS AREA (DA-1, DA-2, DA-3, AND DA-4) AND PROVIDE TEMPORARY OR PERMANENT STABILIZATION SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.
VEHICLE TURNAROUND
WETLAND/ RIPARIAN BUFFER
TEMPORARY SWALE (TYP)
TEMPORARY CULVERT FOR ACCESS TO LAYDOWN ~~AND STAGING~~ AREA
LAYDOWN AND STAGING AREA (TYP)
LAB/OFFICE BUILDING
NUTRIENT STORAGE TANK 2.5M GAL-123' DIA (OPEN-TOP TANK, NOT STORMWATER JURISDICTIONAL)
STONE OUTLET SEDIMENT TRAP (ST2)
TEMPORARY SWALE (TYP)
8" PERF. STONE OUTLET SEDIMENT TRAP (ST1)
8" PERF. PIPE
SILT FENCE (TYP)
REINFORCED SILT FENCE WITHIN 50' OF NATURAL RESOURCES (TYP)
WETLAND/ RIPARIAN BUFFER
AREA 'B': DO NOT START EARTH DISTURBANCE IN THIS AREA (DA-5) UNTIL TEMPORARY OR PERMANENT STABILIZATION IS PROVIDED FOR A PORTION OR THE ENTIRETY OF AREA 'A' SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.
INTERMITTENT STREAM 2018-SC-1
LIMITS OF VHB NATURAL RESOURCE STUDY AREA

NOTE:
SEDIMENT TRAPS SHALL BE CONVERTED TO GRAVEL TREATMENT WETLANDS ONLY AFTER ALL CONTRIBUTING DRAINAGE AREAS HAVE RECEIVED FINAL STABILIZATION

0 25 50 100 Feet

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BUILDING FOOTPRINT

COMPACTED GRAVEL DRIVEWAYS AND ACCESS ROADS

GRASS COVERED GRAVEL MAINTENANCE ROAD

STORMWATER TREATMENT PRACTICES WITH ROLLED EROSION CONTROL PRODUCT

GRASSED AREAS WITH ROLLED EROSION CONTROL PRODUCT

ALL OTHER AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND GRASSED AREAS SHALL MEET THE POST CONSTRUCTION SOIL DEPTH AND QUALITY REQUIREMENT OF THE 2017 VERMONT STORMWATER MANAGEMENT MANUAL RULE, OR LATEST ISSUANCE.

FUTURE GOODRICH FARM SILAGE BUNKERS
EXISTING COW BARN
MANURE SEPARATION BUILDING
MANURE STORAGE TANK
EXISTING FARM HOUSE
FUTURE BARN LOCATION FOR GOODRICH FARM
EXISTING CONCRETE SILAGE CONTAINMENT
SOUTH LAGOON (EXISTING)
VERMONT GAS METERING AND REGULATING STATION FINAL LOCATION TBD
WETLAND/ RIPARIAN BUFFER
Shard Villa Road
LIMIT OF DISTURBANCE (TYP.)
EXISTING GRAVEL DRIVE
LIMITS OF VHB NATURAL RESOURCE STUDY AREA
CHECKDAM, TYPICAL (18" HIGH w/ ONE CHECK DAM ALONG SWALE FOR EVERY 18" CHANGE IN ELEVATION)
NUTRIENT MANAGEMENT BUILDING AND CAKE STORAGE AREA
NUTRIENT CAKE STORAGE AREA (3) - 40 YARD COVERED DUMPSTERS
UNUSED DUG WELL
CLASS II WETLAND 2018-2
INTERMITTENT STREAM 2018-SC-2
CLASS II WETLAND 2018-1
CHECKDAM, TYPICAL (18" HIGH w/ ONE CHECK DAM ALONG SWALE FOR EVERY 18" CHANGE IN ELEVATION)
HYDROLYZER
PROPOSED BUILDINGS (TYP)
BIOGAS UPGRADER
COMPACTED GRAVEL (TYP)
COMPACTED GRAVEL (TYP)
NUTRIENT STORAGE TANK 2.5M GAL-123' DIA (OPEN-TOP TANK, NOT STORMWATER JURISDICTIONAL)
ROLLED EROSION CONTROL PRODUCT ON SLOPE
WETLAND/ RIPARIAN BUFFER
AREA 'A"-START WORK IN THIS AREA (DA-1, DA-2, DA-3, AND DA-4) AND PROVIDE TEMPORARY OR PERMANENT STABILIZATION SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.
VEHICLE TURNAROUND
GRASS COVERED GRAVEL PATH
LAB/OFFICE BUILDING
CHECKDAM, TYPICAL (18" HIGH w/ ONE CHECK DAM ALONG SWALE FOR EVERY 18" CHANGE IN ELEVATION)
8" SOLID PIPE
STORMWATER TREATMENT PRACTICE (TYP)
8" PERF. PIPE
8" PERF. PIPE
WETLAND/ RIPARIAN BUFFER
AREA 'B": DO NOT START EARTH DISTURBANCE IN THIS AREA (DA-5) UNTIL TEMPORARY OR PERMANENT STABILIZATION IS PROVIDED FOR A PORTION OR THE ENTIRETY OF AREA 'A' SO THAT THE TOTAL CONCURRENT EARTH DISTURBANCE IS LESS THAN 5 ACRES.
CHECKDAM, TYPICAL (18" HIGH w/ ONE CHECK DAM ALONG SWALE FOR EVERY 18" CHANGE IN ELEVATION)
INTERMITTENT STREAM 2018-SC-1
LIMITS OF VHB NATURAL RESOURCE STUDY AREA

0 25 50 100 Feet

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Final Stabilization and Post-Construction Plan

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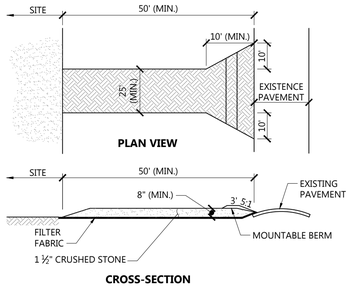


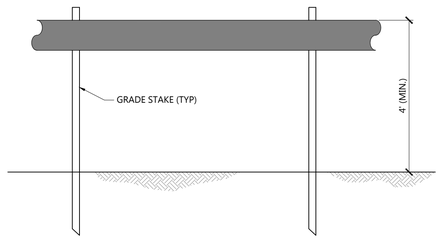
NOTES

1. AGGREGATE SIZE: USE A MATRIX OF 1 TO 4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH: NOT LESS THAN 50 FEET (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH APPLIES)
3. THICKNESS: NOT LESS THAN EIGHT (8) INCHES
4. WIDTH: TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT MINIMUM IF THERE IS ONLY ONE ACCESS TO THE SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE
6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION EXITS SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

Stabilized Construction Exit

1/16

N.T.S. Source: VHB LD_682-VT



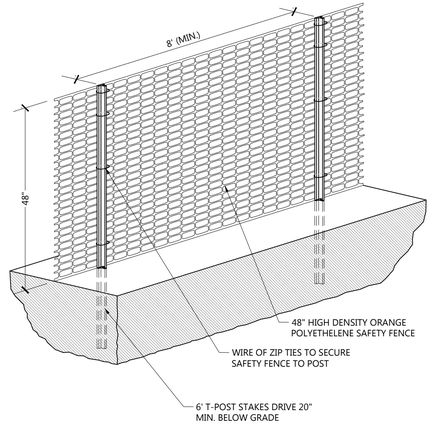
NOTES

1. BARRIER MESH TAPE OR ROPE SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT AREA TO DEMARCATE THE LIMIT OF DISTURBANCE. NO EARTHWORK OR STORAGE OF MATERIALS SHALL BE CONDUCTED BEYOND THIS LIMIT WITHOUT PRIOR APPROVAL FROM THE OSPC.
2. USE 3" ORANGE BARRIER MESH TAPE OR 1/2" YELLOW POLYPROPYLENE ROPE.
3. WITHIN 50' OF WATER RESOURCE AREAS, USE 2-3 ROWS OF TAPE OR ROPE. BEYOND 50' OF WATER RESOURCE AREAS USE 1 ROW OF TAPE OR ROPE.
4. TAPE OR ROPE MAY BE FASTENED TO STAKES, TREES, OR OTHER APPROPRIATE FIXED OBJECTS.
5. PROJECT DEMARCATION SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). PROJECT DEMARCATION MAY CROSS RESOURCES AREAS WITH EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
6. PROJECT DEMARCATION SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

Project Demarcation - Barrier Mesh Tape or Rope

08/16

N.T.S. Source: VHB LD_VT



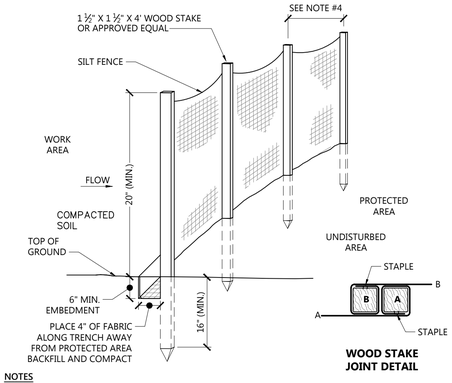
NOTES

1. CONSTRUCTION/SNOW FENCE SHALL BE INSTALLED WITHIN 50' OF A WATER RESOURCE, (STREAM, BROOK, LAKE, POND, ETC.) UNLESS THE AREA IS DENSELY WOODED, IN WHICH CASE 2 TO 3 ROWS OF ORANGE BARRIER MESH TAPE OR ROPE MAY BE USED.
2. CONSTRUCTION/SNOW FENCE SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). CONSTRUCTION/SNOW FENCE MAY CROSS RESOURCE AREAS WITH THE EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
3. CONSTRUCTION/SNOW FENCE SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

Construction/Snow Fence

08/16

N.T.S. Source: VHB LD_651-VT



NOTES

1. WOVEN WIRE FENCE REINFORCEMENT IS REQUIRED WITHIN 50 FT UPSLOPE OF RECEIVING WATERS.
2. WHERE REQUIRED FENCE SHALL BE WOVEN WIRE, MIN. 14 GAUGE WITH A 6" MESH OPENING SHALL BE USED.
3. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUIVALENT.
4. POST SPACING FOR WIRE BACKED FENCE SHALL BE 10 FT. MAX. FOR FILTER CLOTH FENCE WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4 FT. FOR FILTER CLOTH FENCE WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6 FT.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6 INCHES AND FOLDED.
6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.
8. SILT FENCE SHALL NOT BE USED TO DEMARCATE LIMITS OF DISTURBANCE.
9. AREA DRAINING TO SILT FENCE SHALL NOT EXCEED ¼ ACRE PER 100 LF

Silt Fence/ Reinforced Silt Fence Barrier

08/16

N.T.S. Source: VHB LD_650-VT

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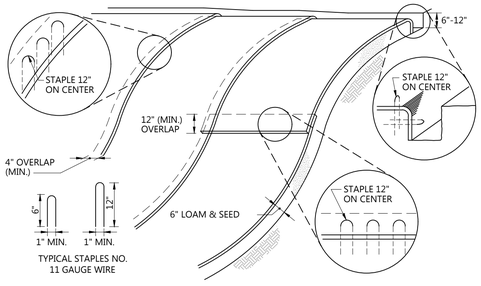


NOTES

1. SILT FENCE SHALL BE INSTALLED IN SHORTER RUNS WITH "J-HOOKS" TO AVOID CONCENTRATION OF FLOWS AT ONE LOCATION BY TRAPPING RUNOFF AT MULTIPLE POINTS ALONG A SLOPE.
2. MINIMUM WIDTH OF J-HOOK RECOMMENDED AT 20 FT WITH A DEPTH OF 10 FT. WHERE SPACE IS LIMITED (E.G., ALONG NARROW RIGHTS OF WAY), NARROWER HOOKS CAN BE USED WITH A HIGHER SPACING FREQUENCY.
3. START DOWN-GRADIENT SILT FENCE LINE AS CLOSE AS POSSIBLE TO UP-GRADIENT J-HOOK.

Installation of "J-Hooks" on Slopes

08/16

N.T.S. Source: VHB LD_VT

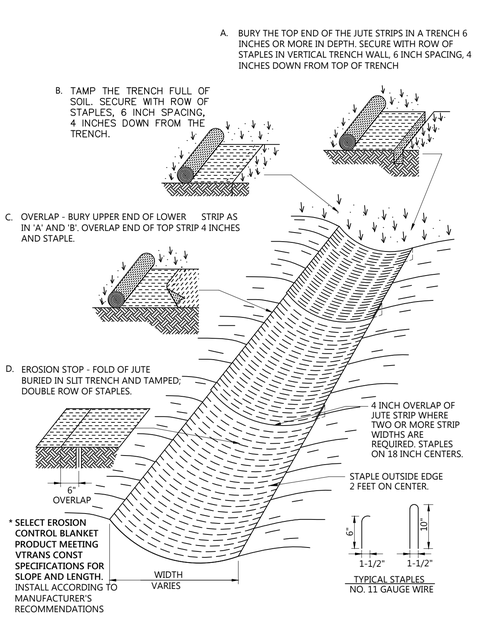
NOTES

1. APPLY TO SLOPES 3H:1V OR GREATER AND WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. INSTALL EROSION CONTROL BLANKET THAT MEETS VTRANS CONST SPECIFICATIONS FOR SLOPE AND LENGTH.
3. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
4. APPLY TOP SOIL, FERTILIZER, LIME AND SEED PRIOR TO PLACING MATTING.
5. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'x225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'x150' ROLL OF MATERIAL.
6. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION PREVENTION AND SEDIMENT CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE, DO NOT STRETCH AND ENSURE CLOSE CONTACT WITH THE GROUND SURFACE..
7. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.
8. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" TO 12" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
9. ROLL THE BLANKET DOWN IN THE DIRECTION OF THE WATER FLOW.
10. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4" OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
11. WHEN BLANKETS MUST BE SPLICED, PLACE UPPER BLANKET END OVER LOWER END WITH 12" (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.

Erosion Control Blanket Slope Installation

08/16

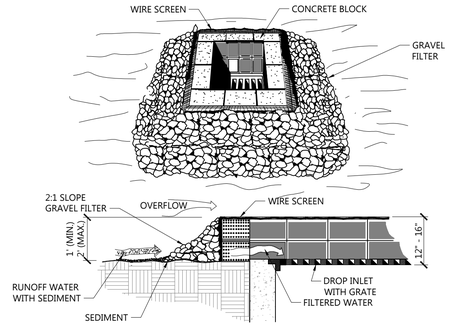
N.T.S. Source: VHB LD_703-VT



Erosion Control Blanket Swale Installation

08/16

N.T.S. Source: VHB LD_681-VT



NOTES

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW THE REST OF THE INLET AND BLOCKS SHALL BE PLACED AGAINST THE INLET FOR SUPPORT.
2. CONCRETE BLOCKS SHOULD BE PLACED LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF EACH BLOCK SHOULD BE ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED DEPENDING ON THE DESIGN BY STACKING VARIOUS COMBINATIONS OF DIFFERENT SIZED BLOCKS. THE BARRIER SHOULD BE A MINIMUM OF 12 INCHES HIGH AND A MAXIMUM OF 16 INCHES HIGH.
3. HARDWARE CLOTH OR ½" WIRE MESH SHOULD BE PLACED OVER THE OPENINGS OF THE CONCRETE BLOCKS AND EXTENDED AT LEAST 12 INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCK.
4. USE CLEAN STONE OR GRAVEL ½" TO ¾" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2H:1V SLOPE OR FLATTER.
5. A 1 FOOT THICK LAYER OF FILTER STONE WILL BE PLACED AGAINST THE 3" STONE.
6. MAXIMUM DRAINAGE AREA PER SEDIMENT TRAP IS 1 ACRE.
7. INSTALL MARSH MAT OR APPROVED EQUAL AT ALL CATCH BASIN GRATES.
8. BLOCK AND STONE INLET PROTECTION REQUIRED AT ALL CATCH BASIN INLETS WHERE THE FINISHED GRADE IS WITHIN 6" OF THE RIM OF THE STRUCTURE OR FRAME.

Block and Gravel Drop Inlet Protection (Paved Areas)

1/16

N.T.S. Source: VHB LD_676-VT

Goodrich Farm / Salisbury AD1

615 Shard Villa Road
Salisbury, Vermont

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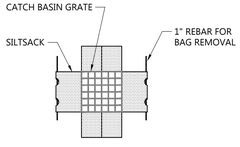
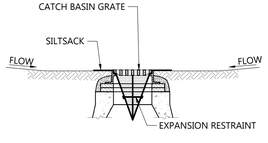
Drawing Number: C6.01

Sheet of

Project Number: 58073.00



PLAN VIEW



SECTION VIEW

NOTES

1. INSTALL SILTSACK IN ADDITION TO ANY OTHER INLET PROTECTION ON ALL CATCH BASINS.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

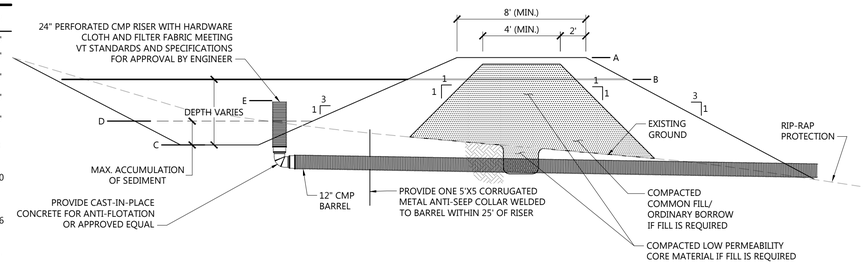
Siltsack Sediment Trap

1/16

N.T.S. Source: VHB LD_674

CALCULATIONS AND DIMENSIONS TABLE

DESIGNATION	ST1	ST2
A	399'	410'
B	398'	409'
C	395'	405'
D	396'	406'
E	398'	409'
DRAINAGE AREA (ACRE)	3.0	2.3
VOLUME REQUIRED (MIN. 3,600 CF PER ACRE)	10,800 CF	8,280 CF
VOLUME PROVIDED	22,800 CF	8,326 CF
BARREL DIAMETER	24"	24"



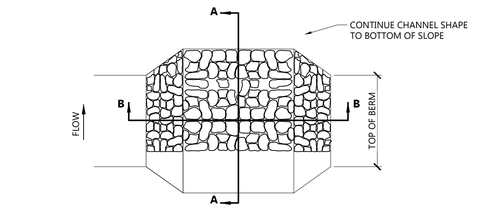
NOTES

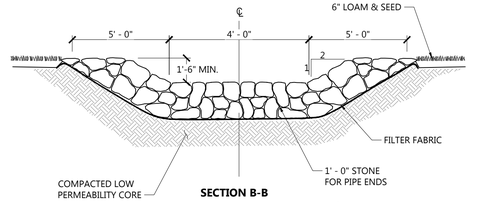
1. CLEAR, GRUB AND STRIP AREA UNDER EMBANKMENT OF ANY VEGETATION AND ROOT MAT. CLEAR THE POOL AREA OF WOODY VEGETATION.
2. ALL TEMPORARY FILL SLOPES SHALL BE 2"1 OR FLATTER; CUT SLOPES 1:1 OR FLATTER AND MEET OSHA REQUIREMENTS.
3. UNDERLYING SOILS SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL.
4. CONSTRUCT THE EMBANKMENT WITH FILL MATERIAL FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. COMPACT THE EMBANKMENT BY TRAVERSING WITH EQUIPMENT DURING CONSTRUCTION. LOW PERMEABILITY CORE MATERIAL IS CONTINUOUS FOR THE FULL LENGTH OF THE EMBANKMENT. CORE MATERIAL SHALL HAVE A PERMEABILITY OF LESS THAN 1X10^-5 INCHES PER HOUR. RELATIVELY PERVIOUS MATERIALS SUCH AS SAND OR GRAVEL (CLASSIFIED BY U.C.S. AS GW, GP, SW, & SP) SHALL NOT BE PLACED IN THE EMBANKMENT.HAND COMPACT FILL MATERIAL AROUND THE PIPE SPILLWAY IN FOUR INCH LAYERS. PLACE A MINIMUM OF TWO FEET OF HAND COMPACTED BACKFILL OVER THE PIPE PRIOR BEFORE CROSSING THE PIPE WITH CONSTRUCTION EQUIPMENT.
5. WHERE PIPES PENETRATE THE LOW PERMEABILITY CORE, PIPE SHALL BE BEDDED IN THE LOW PERMEABILITY CORE MATERIAL.
6. FILL SHALL BE PLACED AND COMPACTED IN CONTINUOUS LIFTS WITH A THICKNESS NOT GREATER THAN 8 INCHES.
7. DURING CONSTRUCTION OF THE CUTOFF TRENCH THE TRENCH SHALL BE DEWATERED DURING PLACEMENT OF FILL.
8. THE EMBANKMENT SHALL BE STABILIZED IMMEDIATELY FOLLOWING THE CONSTRUCTION AND IN NO CASE SHALL THE EMBANKMENT REMAIN UNSTABILIZED FOR MORE THEN SEVEN (7) DAYS.
9. VOLUME SEDIMENT STORAGE SHALL BE 3,600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
10. CHECK TEMPORARY SEDIMENT BASINS AFTER PERIODS OF SIGNIFICANT RUNOFF, AND INSPECT EMBANKMENT FOR PIPING AND SETTLEMENT.
11. REMOVE SEDIMENT AND RESTORE BASIN TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP (MAX) OR AS INDICATED IN THE DETAIL. DEPOSIT SEDIMENT THAT IS REMOVED IN A SUITABLE AREA AND STABILIZE.
12. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
13. PERFORATE THE TOP TWO-THIRDS OF THE RISER WITH ONE INCH DIAMETER HOLES OR SLITS SPACED SIX INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF PIPE CORRUGATIONS. NO HOLES WILL BE ALLOWED WITHIN SIX INCHES OF THE HORIZONTAL BARREL.
14. THE RISER SHALL BE WRAPPED WITH ONE-QUARTER TO ONE-HALF INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH HAVING AN EQUIVALENT SIEVE SIZE OF 40-80. EXTEND THE FILTER CLOTH SIX INCHES ABOVE THE HIGHEST HOLE AND SIX INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, OVER-LAP, FOLD AND STAPLE FILETER CLOTH TOGETHER TO PREVENT BYPASS.
15. HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE WITH STRAPS OR CONNECTING BANDS. PLACE STRAPS AT THE TOP AND BOTTOM OF THE CLOTH.
16. ANCHOR THE RISER WITH A 12 THICK CONCRETE BASE TO PREVENT FLOTATION. EMBED THE PIPE RISER A MIMIMU OF NINE INCHES.
17. INSPECT AND REPAIR THE BASIN AFTER EACH RAIN EVENT OR AS NEEDED.
18. ONCE THE CONTRIBUTING DRAINAGE AREA TO THE SEDIMENT BASIN HAS BEEN PROPERLY STABILIZED, THE EMBANKMENT AND RESULTING SEDIMENT DEPOSITS ARE TO BE LEVELED OR OTHERWISE DISPOSED OF IN ACCORDANCE WITH THE SEDIMENT CONTROL PLAN.

Temporary Pipe Outlet Sediment Trap Detail

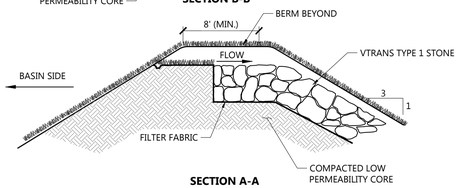
10/17

N.T.S. Source: VHB LD_VT





SECTION B-B

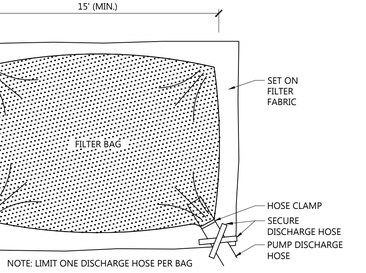


SECTION A-A

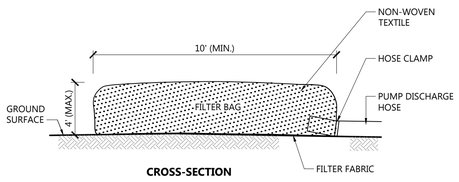
Overflow Stone Spillway

1/16

N.T.S. Source: VHB REV LD_161



PLAN VIEW



CROSS-SECTION

NOTES

1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. CONTRACTOR MAY PROPOSE ALTERNATE DEWATERING SYSTEM FOR REVIEW AND APPROVAL

Dewatering Filter Bag

1/16

N.T.S. Source: VHB LD_691

MULCH MATERIAL AND APPLICATION

MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ-FT	PER ACRE	DEPTH OF APPLICATION
WOOD CHIPS OR SHAVINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 – 900 LBS	10 – 20 TONS	2" – 7"
WOOD FIBER CELLULOSE (PARTIALLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS	N/A
GRAVEL, CRUSHED STONE	WASHED; SIZE 2B OR 3A – 1 1/2"	9 CY	405 CY	3"
HAY OR STRAW	AIR-DRIED; FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS	90 – 100 LBS, 2–3 BALES	2 TONS (100–120 BALES)	COVER ABOUT 90% SURFACE
Erosion Control Mix	WELL-GRADED MIXTURE OF PARTICLE SIZES, ORGANIC CONTENT BETWEEN 80–100% DRY WEIGHT, PARTICLE SIZE SHALL PASS 6" SCREEN (100%)	*Slopes 3(Hz.):1(Vert.) = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. **Slopes between 3(Hz.):1(Vert.) and 2(Hz.):1(Vert.) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. ***Slopes steeper than 2(Hz.):1(Vert.) applicability to specific site and mulch depth to be reviewed and approved prior to use by OPSC or EPSC Specialist		

1. APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL FOR MULCH TO BLOW AWAY.
2. MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES. (SEEDS OR SEEDLINGS)
3. TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.
4. OTHER THAN EROSION CONTROL MIX, MULCH IS NOT TO BE INSTALLED ON SLOPES > 3:1.

Mulching Notes and Specifications

08/16

N.T.S. Source: VHB LD_VT

TEMPORARY SEEDING

1. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE.
2. SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
3. AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
4. MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
5. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.

PERMANENT SEEDING

1. SEE SEEDDING SPECIFICATIONS FOR RECOMMENDED SEED MIXES. USE RIPARIAN AND WETLAND SEEDING MIX WITHIN 50 FEET OF STREAM CROSSINGS AND IN DISTURBED WETLAND AREAS. USE UPLAND NATURAL COMMUNITY MIX WITHIN AREAS IDENTIFIED AS SIGNIFICANT NATURAL COMMUNITIES. USE PERMANENT SEEDING MIX FOR ALL OTHER DISTURBED UPLAND AREAS. SEE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR ADDITIONAL SEED MIXTURES.
2. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE; CHISELING OR DISKING MAY BE NEEDED IF SOIL IS COMPACTED.
3. SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
4. PERMANENT SEEDING TO OCCUR PRIOR TO SEPTEMBER 15TH UNLESS WEATHER PERMITS SEEDING BEYOND SEPTEMBER 15TH.
5. AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
6. MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
7. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.
8. IRRIGATION MAY BE NEEDED TO FACILITATE GRASS GROWTH AND ESTABLISH ADEQUATE GRASS COVER.

TEMPORARY SEEDING MIX

TYPE	SEASON	RATE (LBS/ACRE)
RYEGRASS (ANNUAL OR PERENNIAL)	APRIL 15 – SEPTEMBER 15	20
"AROOSTOOK" WINTER RYE	SEPTEMBER 15 – APRIL 15	90

PERMANENT SEEDING MIX*

TYPE	SEASON	RATE (LBS/ACRE)
BIRDSFOOT TREFOIL(1)**	APRIL 15 – SEPTEMBER 15	5
COMMON WHITE CLOVER (1)**	APRIL 15 – SEPTEMBER 15	8
TALL FESCUE (2)	APRIL 15 – SEPTEMBER 15	10
REDTOP (3)	APRIL 15 – SEPTEMBER 15	2
RYEGRASS (PERENNIAL) (3)	APRIL 15 – SEPTEMBER 15	5

*PERMANENT SEEDING MIX IS A COMBINATION OF BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER PLUS TALL FESCUE PLUS REDTOP OR RYEGRASS (PERENNIAL). I.E. PERMANENT SEEDING MIX = (1) + (2) + (3). (SEE PAGE 4.27 OF THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.) ** ADD INOCULANT IMMEDIATELY PRIOR TO SEEDING

Seeding Notes and Specifications

08/16

N.T.S. Source: VHB LD_VT

vhb.com

vhb

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Goodrich Farm / Salisbury AD1

615 Shard Villa Road
Salisbury, Vermont

No.	Revision	Date	Appvd.

Designed by TAS Checked by PBS

Issued for Date

Revised 248 Submittal Feb. 6, 2019

Not Approved for Construction

Drawing Title

Erosion Prevention and Sediment Control Details 2

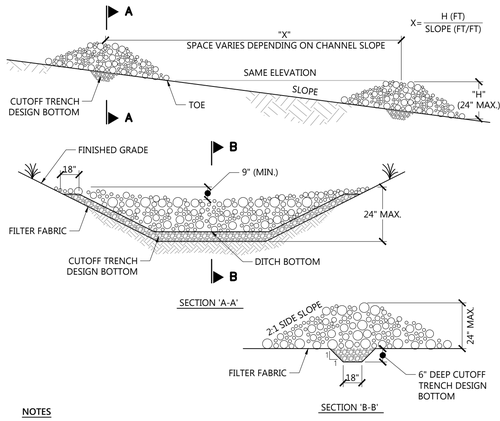
Drawing Number

C6.02

Sheet of

Project Number

58073.00



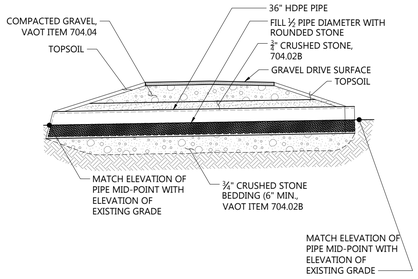
NOTES

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN USING A WELL GRADED STONE MATRIX 2 TO 9 INCHES IN SIZE.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA ABOVE CHECK DAM SHALL NOT EXCEED 2 AC.

Stone Check Dam

08/16

N.T.S. Source: VHB LD_VT



36" Stream Culvert (1/2 Embedded)

1/16

N.T.S. Source: - REV LD_

vhb.com

vhb

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No.	Revision	Date	Appvd.

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Issued for: Revised 248 Submittal

Date: Feb. 6, 2019

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Drawing Title

Erosion Prevention and Sediment Control Details 3

Drawing Number

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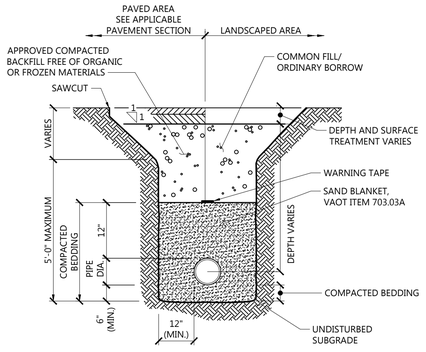
Sheet of

Project Number
58073.00



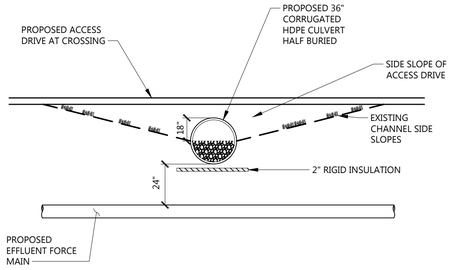
NOTES

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
3. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS, AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE.
4. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER THE PIPE TO ENSURE PIPE IS NOT DAMAGED

Force Main Trench

11/18

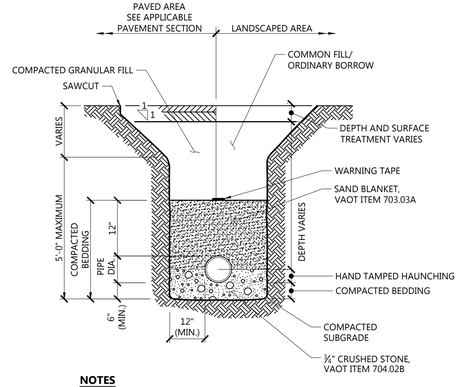
N.T.S. Source: VHB LD



Force Main Crossing At Culvert

11/18

N.T.S. Source: VHB LD



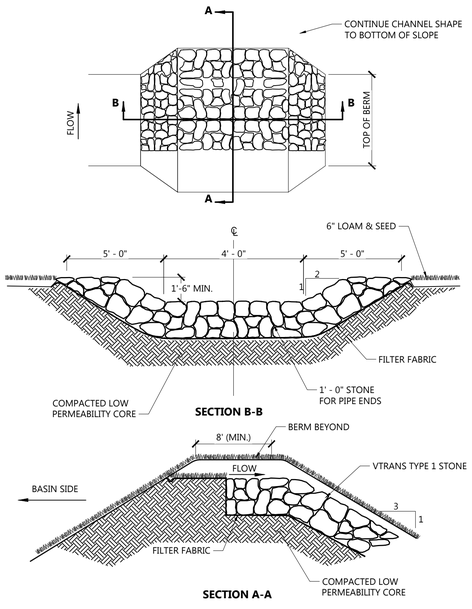
NOTES

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
3. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS, AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE.
4. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER THE PIPE TO ENSURE PIPE IS NOT DAMAGED

Typical Utility Trench Detail

1/16

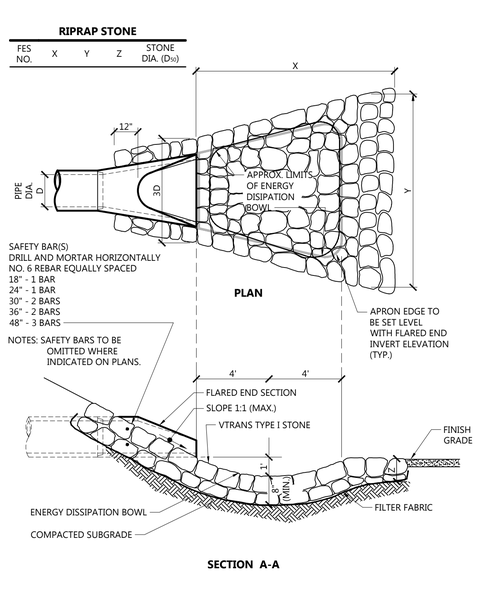
N.T.S. Source: VHB REV LD_



Overflow Stone Spillway

1/16

N.T.S. Source: VHB REV LD_161



Flared End Section (FES) with Stone Protection

1/16

N.T.S. Source: VHB LD_134

vhb.com

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No.	Revision	Date	Appvd.

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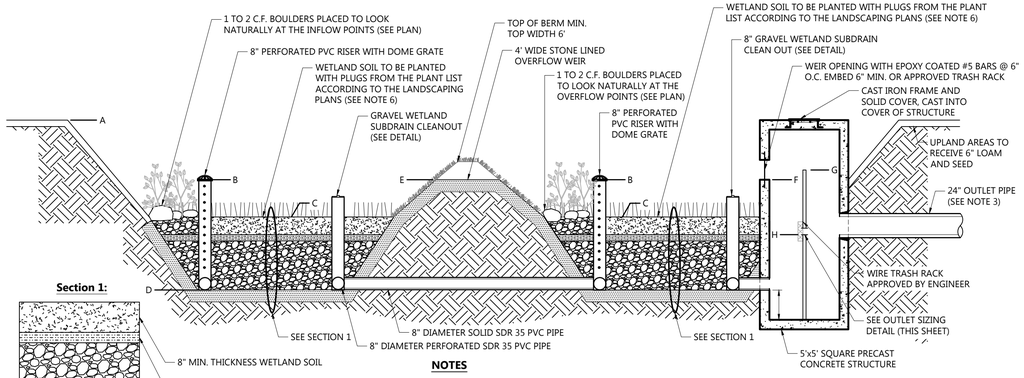
Drawing Title: Site Details

Drawing Number: C7.01

Sheet of

Project Number: 58073.00



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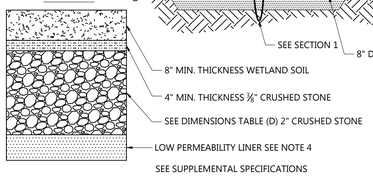

DIMENSIONS TABLE

DESIGNATION	A	B	C	D	E	F	G	H
GW1	399.00	396.50	395.00	391.00	396.50	396.35	397.10	394.75
GW2	411.00	408.50	407.00	403.00	-	405.55	409.30	406.50

NOTES

1. SIDE SLOPES SHALL BE 3:1 MAX. 2% MIN.
2. PVC DRAIN PIPES SHALL CONFORM TO ASTM F810. PERFORATIONS, WHEN APPLICABLE, SHALL BE 3/4" HOLES ON 5" CENTERS AND IN THREE ROWS 120° APART.
3. PIPE INVERTS, STRUCTURE LOCATIONS, AND CLEANOUT LOCATIONS AS SPECIFIED PER PLAN
4. ACCEPTABLE LOW PERMEABILITY LINERS ARE A 6 TO 12 INCH COMPACTED LAYER OF CLAY SOILS WITH A MINIMUM 15% PASSING THE #200 SIEVE AND MAXIMUM PERMEABILITY OF $1X10^{-5}$ CM/SEC DETERMINED BY LAB TESTING OR EITHER A 30 MIL POLY-LINER, INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
5. WHERE PIPES PENETRATE THE LOW PERMEABILITY SOIL, PIPE SHALL BE BEDDED IN THE LOW PERMEABILITY MATERIAL.
6. SEE PLANTING PLAN FOR PLANT TYPES AND SEED MIX.
7. NO WOODY VEGETATION >2 INCHES IN DIAMETER SHALL BE PLANTED OR ALLOWED TO GROW ON THE DAM, WITHIN 15 FEET OF THE DAM OR THE TOE OF THE EMBANKMENT, OR WITHIN 25 OF A PRINCIPAL SPILLWAY OUTLET.

Gravel Wetland Species Specifications:

TEMPORARY & PERMANENT SEEDING IN UPLAND AREA:

1. SEE SHEET 6.02 IN INDC PERMITTING SET FOR TEMPORARY (EPSC) AND PERMANENT SEEDING IN UPLAND AREA.

GRAVEL WETLAND BASIN SEEDING

1. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE.
2. SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
3. AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
4. MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
5. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE; CHISELING OR DISKING MAY BE NEEDED IF SOIL IS COMPACTED.
6. PERMANENT SEEDING TO OCCUR PRIOR TO SEPTEMBER 15TH UNLESS WEATHER PERMITS SEEDING BEYOND SEPTEMBER 15TH.
7. IRRIGATION MAY BE NEEDED TO FACILITATE GROWTH AND ESTABLISH ADEQUATE GRASS COVER.
8. WETLAND SEED MIXTURE SPECIES COMPOSITION: AMERICAN BUR-REED (SPARGANIUM AMERICANUM), BROAD-FRUITED BUR-REED (SPARGANIUM EURYCARPUM), PICKERELWEED (PONTEDERIA CORDATA), WILD RICE (ZIZANIA SP.), BROADLEAF ARROWHEAD (SAGITTARIA LATIFOLIA), RICE CUTGRASS (LEERSIA ORYZOIDES), NORTHERN WATER PLANTAIN (ALISMA SUBCORDATUM), SWEETFLAG (ACORUS AMERICANUS), LONG-HAIR SEDGE (CAREX COMOSA), NODDING SEDGE (CAREX CRINITA), SHALLOW SEDGE (CAREX LURIDA), RATTLESNAKE MANNAGRASS (GLYCERIA CANADENSIS), FOWL MANNAGRASS (GLYCERIA STRIATA), SOFTSTEM BULRUSH (SCHOENOPLECTUS TABERNAEMONTANI).
9. APPLY 18 LBS PER ACRE OF WETLAND SEED MIXTURE.
10. COVER WETLAND SEED MIXTURE ON BOTTOM OF GRAVEL WETLAND BASIN EROSION CONTROL BLANKET AND ANCHOR IN PLACE.

Gravel Wetland (Multiple Bays)

1/16

N.T.S. Source: VHB LD_160

Supplemental Specifications:

WETLAND SOIL SHALL BE A LOW HYDRAULIC CONDUCTIVE SOIL (0.1-0.01 FT/DAY = 3.5x10^-5 CM/SEC TO 3.5x10^-6 CM/SEC). THE SOIL SHALL CONSIST OF COMPOST, SAND, AND SOME FINE SOILS WITH A 15% OR GREATER ORGANIC MATTER AND A MAXIMUM OF 15% CLAY CONTENT. WETLAND SOILS MAY BE PREPARED BY AMENDING NATURAL TOPSOIL WITH PEAT MOSS OR LEAF MOLD, AT A RATIO OF 75% SOIL TO 25% ORGANIC MATERIAL BY VOLUME. THE RESULTING SOIL MIX SHALL HAVE A PH RANGE OF 5.2 TO 7.0 AND BE FREE OF LARGE STONES, STUMPS. LARGE STICKS, SHRUBS, OR OTHER LITTER.

3/8-INCH CRUSHED STONE SHALL BE COMPOSED OF DURABLE CRUSHED ROCK CONSISTING OF ANGULAR FRAGMENTS, FREE FROM DETRIMENTAL QUANTITY OF THIN, FLAT, ELONGATED PIECES. THE CRUSHED STONE SHALL BE FREE FROM CLAY, LOAM, OR DELETERIOUS MATERIALS. THE CRUSHED STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3/8 INCH	90 - 100
No. 4	30 - 50
No. 8	5 - 20
No. 16	0 - 5

2-INCH CRUSHED STONE SHALL BE COMPOSED OF DURABLE CRUSHED ROCK CONSISTING OF ANGULAR FRAGMENTS, FREE FROM DETRIMENTAL QUANTITY OF THIN, FLAT, ELONGATED PIECES. THE CRUSHED STONE SHALL BE FREE FROM CLAY, LOAM, OR DELETERIOUS MATERIALS. THE CRUSHED STONE SHALL CONFORM TO THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
2 INCH	90 - 100
1 1/4 INCH	25 - 50
3/4 INCH	0 - 15
1/2 INCH	0 - 5

LOW PERMEABILITY SOIL SHALL BE A CLAY SOIL WITH MINIMUM 15% PASSING THE No. 200 SIEVE. SOIL SHALL BE PLACED AND COMPACTED IN A MANNER TO PROVIDE AN IN-SITU PERMEABILITY RATE OF NOT MORE THAN 1.0x10^-5 CM/SEC.

Quality Assurance:

THE OWNER SHALL DESIGNATE AN ENGINEER OR REPRESENTATIVE (WITH EXPERIENCE IN WETLAND DESIGN OR CONSTRUCTION) TO BE ON THE SITE DURING INSTALLATION OF THE WETLAND. THE REPRESENTATIVE SHALL OBSERVE WORK, INCLUDING EXCAVATION, SOIL PLACEMENT, EROSION CONTROL, FINAL GRADING AND PLANTING. THE REPRESENTATIVE WILL OBSERVE CONSTRUCTION MATERIALS, PLANT MATERIALS, SOILS, AND EROSION CONTROL MEASURES TO BE PLACED IN THIS AREA. THE ACTUAL LOCATIONS AND SPACING OF PLANTS MUST BE AS SHOWN ON THE PLANS OR AS INSTRUCTED BY THE REPRESENTATIVE.

PLANTING OPERATIONS SHALL BE PERFORMED BY EXPERIENCED PERSONNEL UNDER COMPETENT SUPERVISION. EDUCATION, EXPERIENCE AND CERTIFICATION OR LICENSE BY APPROPRIATE ORGANIZATION MAY BE REVIEWED TO EVALUATE COMPETENCE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER OF THE START OF WORK REQUIRING OVERSIGHT BY THE ENGINEER/REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT THE ENGINEER/REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTION. AT A MINIMUM THE WETLAND SHALL BE INSPECTED AT THE FOLLOWING STAGES OF CONSTRUCTION:

1. ENGINEER/REPRESENTATIVE INSPECTION AND ACCEPTANCE IS REQUIRED UPON ESTABLISHMENT OF SUBGRADE, PRIOR TO INSTALLATION OF LOW PERMEABILITY SOIL LINER.
2. ENGINEER/REPRESENTATIVE INSPECTION AND ACCEPTANCE IS REQUIRED AFTER INSTALLATION OF LOW PERMEABILITY SOIL LINER AND SUBDRAIN PIPING, PRIOR TO PLACEMENT OF CRUSHED STONE AND WETLAND SOIL.
3. INSPECTION AND ACCEPTANCE IS REQUIRED BY ENGINEER/REPRESENTATIVE AFTER PLACEMENT OF CRUSHED STONE, WETLAND SOIL, BERMS AND OVERFLOW WEIRS, PRIOR TO SEEDING AND PLANTING.
4. CONTRACTOR SHALL NOTIFY ENGINEER/REPRESENTATIVE ONCE PLANTING AND SEEDING OF WETLANDS IS COMPLETE AND STABILIZED. FOLLOWING FINAL STABILIZATION AND WITHIN 24 HOURS OF A RAIN STORM OF 0.5 INCH OR GREATER THE ENGINEER/REPRESENTATIVE SHALL INSPECT THE GRAVEL WETLAND FOR FINAL ACCEPTANCE.
5. INSPECTION AND ACCEPTANCES IS REQUIRED BY REPRESENTATIVE AFTER PLANTINGS ARE ESTABLISHED

ONCE FINAL ACCEPTANCE OF THE WETLANDS IS ISSUED IN WRITING THE GRAVEL WETLAND SHALL BE MAINTAINED BY THE OWNER OR OWNER'S DESIGNEE IN ACCORDANCE WITH A STORMWATER LONG TERM OPERATIONS AND MAINTENANCE PLAN.

POST-CONSTRUCTION SOIL DEPTH AND QUALITY REQUIREMENTS

THESE REQUIREMENTS APPLY TO ALL DISTURBED AREAS WITHIN THE LIMITS OF THE SITE WHICH ARE NOT COVERED BY AN IMPERVIOUS SURFACE, INCORPORATED INTO A STRUCTURAL STORMWATER TREATMENT PRACTICE, OR ENGINEERED AS STRUCTURAL FILL ONCE DEVELOPMENT IS COMPLETE. FOR THIS PROJECT THESE AREAS INCLUDE THE DISCONNECTION AREAS AND FILTER STRIP AND AREAS DISTURBED DURING ROAD AND UTILITY INSTALLATION. IT IS ASSUMED THAT INSTALLATION OF THE ARRAY AND FENCING WILL BE DONE WITH LOW-PRESSURE EQUIPMENT AND IN A MANNER THAT MINIMIZES VEHICLE TRAVEL OVER UNDISTURBED AREAS. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER TURF AREAS. ANY AREAS NOT DESCRIBED ABOVE WHICH ARE DISTURBED OR COMPACTED DURING CONSTRUCTION SHALL ALSO BE SUBJECT TO THESE REQUIREMENTS.

ALTERNATIVELY TO LEAVING EXISTING TOPSOIL IN PLACE WITHOUT DISTURBING OR COMPACTING IT, THERE ARE THREE METHODS THAT MAY BE USED TO SATISFY THESE REQUIREMENTS.

1. AMEND EXISTING TOPSOIL IN PLACE
   - SCARIFY OR TILL SUBSOILS TO 4 INCHES OF DEPTH OR TO THE DEPTH NEEDED TO ACHIEVE A TOTAL DEPTH OF 8 INCHES OF UNCOMPACTED SOIL AFTER A CALCULATED AMOUNT OF AMENDMENT IS ADDED.
   - AMEND THE SOIL TO MEET THE ORGANIC CONTENT REQUIREMENTS. ORGANIC MATERIAL MAY BE PLACED AT A PRE-APPROVED RATE OF 1 INCH WITH AN ORGANIC MATTER CONTENT OF 40-65% AND ROTOTILLED INTO 3 INCHES OF SOIL OR AT A CALCULATED RATE ROTOTILLED INTO A DEPTH OF SOIL NEEDED TO ACHIEVE 4 INCHES OF SETTLED SOIL AT 4% ORGANIC CONTENT.

2. REMOVE AND STOCKPILE EXISTING TOPSOIL DURING GRADING
   - TOPSOIL SHOULD BE STOCKPILED ON SITE IN A CONTROLLED AREA AT LEAST 50 FEET FROM SURFACE WATERS, WETLANDS, FLOODPLAINS, OR OTHER CRITICAL RESOURCE AREAS.
   - SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4 INCHES. EXCEPT FOR WITHIN THE DRIP LINE OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION.
   - STOCKPILED TOPSOIL SHALL ALSO BE AMENDED, IF NEEDED, TO MEET THE ORGANIC CONTENT REQUIREMENTS IDENTIFIED ABOVE.
   - REPLACE STOCKPILED TOPSOIL PRIOR TO PLANTING AND RAKE TO LEVEL, REMOVING ANY SURFACE ROCKS LARGER THAN 2 INCHES IN DIAMETER.
   - WATER OR ROLL SOILS IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.

3. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH
   - SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4 INCHES. EXCEPT FOR WITHIN THE DRIP LINE OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION.
   - PLACE 4 INCHES OF IMPORTED TOPSOIL MIX THAT CONTAINS 4% ORGANIC MATTER. SOILS USED IN THE MIX SHALL BE SAND OR SANDY LOAM AS DEFINED BY THE USDA.
   - RAKE TO LEVEL, REMOVING ANY SURFACE ROCKS GREATER THAN 2 INCHES IN DIAMETER.
   - WATER OR ROLL SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND EXECUTING A PLAN FOR VERIFYING THAT THESE AREAS HAVE MET THIS STANDARD. THIS PLAN SHOULD INCLUDE A MINIMUM OF 9 TEST HOLES PER ACRE OF AREA SUBJECT TO THIS STANDARD. THESE TEST HOLES SHALL BE EXCAVATED TO 8 INCHES USING ONLY A SHOVEL DRIVEN SOLELY BY THE WEIGHT OF THE INSPECTOR AND SHALL BE A MINIMUM OF 50 FEET APART.

COMPOST SHALL MEET THE DEFINITION OF "COMPOST" OR MEET THE CONTAMINANT STANDARDS IN THE VERMONT SOLID WASTE MANAGEMENT RULES. IF EXCEPTIONAL QUALITY (EQ) BIOSOLIDS ARE USED AS A SOIL AMENDMENT, THEY SHALL NOT COMPRISE NO MORE THAN 35% OF THE TOTAL VOLUME OF SOIL, AND SHALL BE WELL MIXED BEFORE OR DURING APPLICATION.

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Salisbury, Vermont

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Designed by TAS Checked by PBS

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Not Approved for Construction

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Site Details

Drawing Number

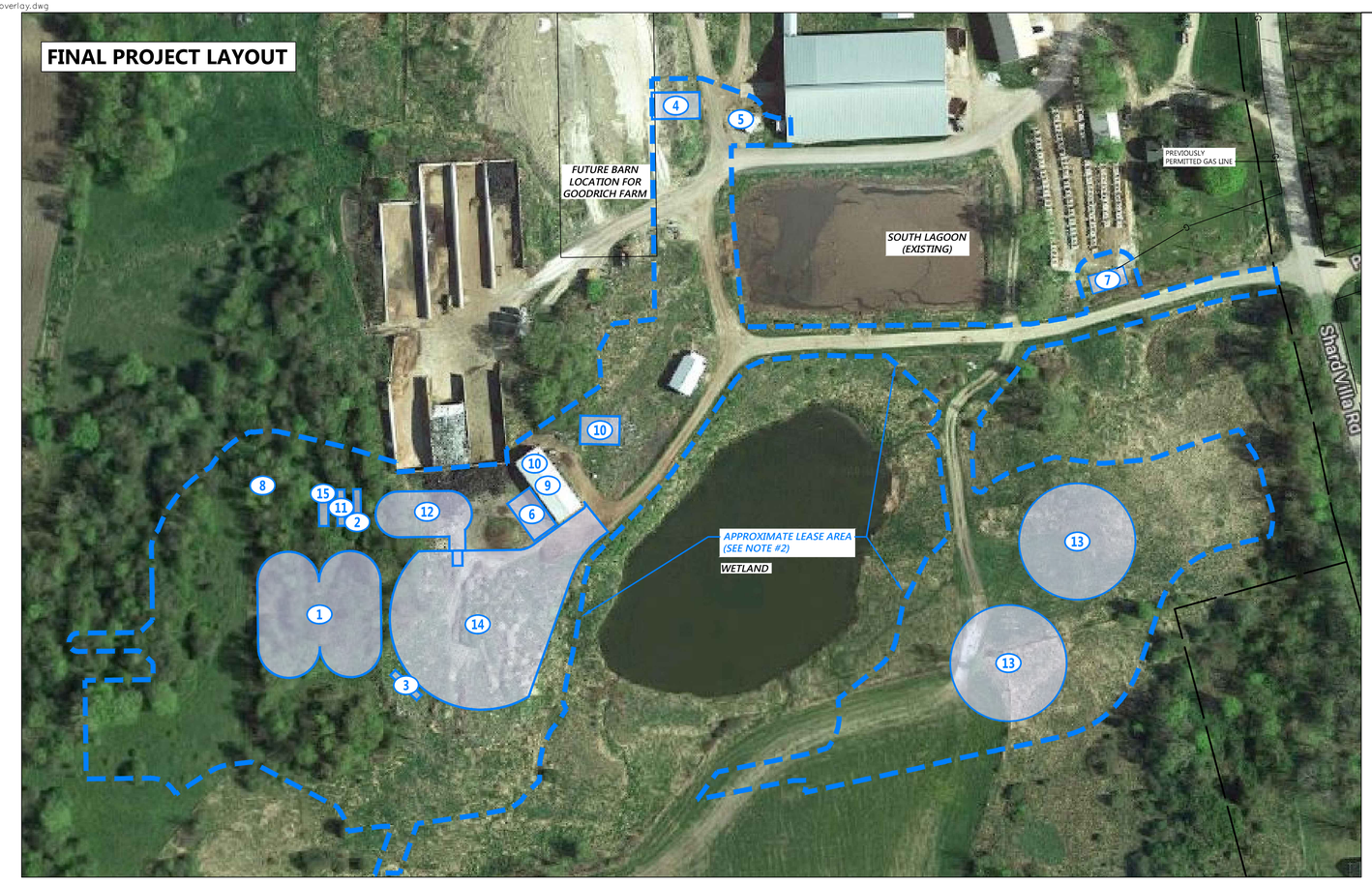
C7.02

Sheet of

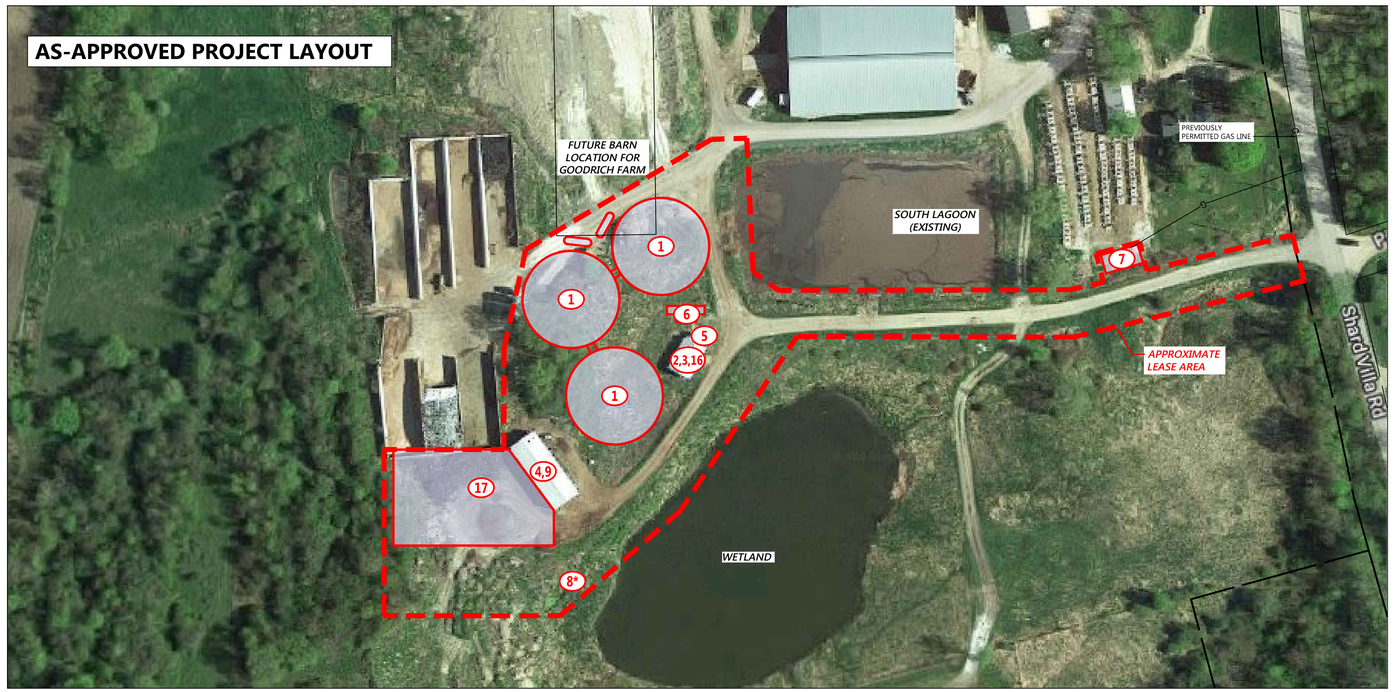
Project Number

58073.00

FINAL PROJECT LAYOUT



AS-APPROVED PROJECT LAYOUT



NOTES:

1. NOT ALL FACILITY ELEMENTS LISTED ARE PRESENT ON BOTH THE CURRENT AND PREVIOUS FACILITY LAYOUT.
2. THE "APPROXIMATE LEASE AREA" SHOWN INCLUDES SALISBURY AD1'S NON-EXCLUSIVE ACCESS RIGHTS TO THE FARM'S EXISTING ROADS, AND TO OTHER FARM LANDS NEEDED FOR CONSTRUCTION AND OPERATION OF THE PROJECT.

* ASSUMED LOCATION

LEGEND

- PROPERTY LINE
- AS-APPROVED PROJECT LAYOUT
- FINAL PROJECT LAYOUT

OCCUR ON BOTH LAYOUTS		*OCCUR ON FINAL LAYOUT ONLY*	
1	DIGESTER(S)	10	NUTRIENT CAKE STORAGE AREA
2	UTILITY BUILDING	11	CHP BUILDING
3	OFFICE/LAB	12	HYDROLYZER
4	SEPARATOR BUILDING	13	NUTRIENT STORAGE TANK
5	MANURE TANK	14	TRUCK TURNAROUND
6	BIOGAS UPGRADER	15	BACK UP GENERATOR
7	VT GAS METERING STATION	*OCCUR ON AS-APPROVED LAYOUT ONLY*	
8	FLARE	16	EXISTING PUMP HOUSE
9	NUTRIENT MANAGEMENT BUILDING	17	COMPOST PAD

0 40 80 160 Feet

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