Stormwater Pollution Prevention Plan

T&L Commercial Development

Construction General Permit # VAR10#437

SWPPP developed by: DEQ Design & Associates

Operator: Smalltown Consultants

August 30, 2024

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Static Documentation

Active Documentation

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES (VAR10)

PERMIT #: VAR10#437 _____
PLAN/ID #:

Application type. (CHOOSE ONE)
☒ **NEW PERMIT ISSUANCE**
☐ **MODIFICATION WITH ACREAGE INCREASE: Permit # _____**
☐ **MODIFICATION WITHOUT ACREAGE INCREASE: Permit # _____**
☐ **EXISTING PERMIT REISSUANCE: Permit # _____**

Section I. Operator/Permittee/Billing Information.

A. Construction Activity Operator (Permittee). The person or entity that is applying for permit coverage and will have operational control over construction activities to ensure compliance with the general permit. A person with signatory authority for this operator must sign the certification in Section V (per Part III.K of the VAR10 Permit).	
Operator Name:	Smalltown Consultants
Contact person:	Ken Harper
Address:	Main Street
City, State and Zip Code:	Smalltown, Virginia 23220
Phone Number:	804-555-9801
Primary and CC Email(s):	Kharper@smalltownconsultants.com
State Corporation Commission Entity Number (if applicable):	
B. Electronic correspondence. To receive an emailed coverage letter or to pay by credit card, you must choose **YES** and include a valid email. May we transmit correspondence electronically? **YES ☒ NO ☐**	

Section II. Construction Activity Information.

A. Include a legible site map showing the location of the existing or proposed land-disturbing activities for which the operator is seeking permit coverage, the limits of land disturbance, construction entrances, construction support activities, and all waterbodies receiving stormwater discharges from the construction site.	
B. Project site location information.	
Construction Activity Name:	T&L Commercial Development
Address:	1111 Landry Lane
City and/or County and Zip Code:	Small County 24000
Construction Activity Entrance Location (description or street address):	Construction entrance will be along Landry Lane near the headwaters of Harper Creek
Latitude and Longitude (6-digit, decimal degrees format, e.g. 37.1234, -78.1234):	37.5452, -77.4422
C. Acreage totals for all land-disturbing activities to be included under this permit coverage. Report to the nearest one-hundredth of an acre.	
Total area of the construction site (including off-site area):	6.7 acres
Estimated area to be disturbed by the construction activity (on-site only):	3.2 acres
Off-site estimated area to be disturbed (if applicable; please also refer to Section III):	N/A
D. Construction Activity Status:	**FEDERAL ☐ STATE ☐ PUBLIC ☐ PRIVATE ☒**
E. Nature of the Construction Activity Description (i.e. commercial, industrial, residential, agricultural, utility, solar, linear, stream restoration, etc.):	Commercial office building

F. Municipal Separate Storm Sewer System (MS4) name(s) (if the construction activity is discharging to an MS4):	N/A
G. Estimated Construction Activity Dates.	
Start Date:	09/15/2024
Completion Date:	10/30/2025
H. Is this construction activity part of a larger common Plan of development or sale?	**YES ☒ NO ☐**

I. 6th Order Hydrologic Unit Code (HUC) and Receiving Water Name(s). Include additional areas on a separate page.

HUC	NAME(S) OF RECEIVING WATER WWATERBODY
02080202 – JU74	Harper Creek

Section III. Off-site Support Activity Location Information.

List all off-site support activities and excavated material disposal areas being utilized for this project. Include additional areas on a separate page.

Off-site Activity Name:	N/A
Address:	
City or County:	
Off-site Activity Entrance Location (description or street address):	
Latitude and Longitude (6-digit, decimal degrees format, e.g., 37.1234, -78.1234):	
Is this off-site activity an excavated material disposal area?	**YES ☐ NO ☐**
If this off-site activity is an excavated material disposal area, list the contents of the excavated fill material:	
Will a separate VPDES permit cover this off-site activity?	**YES ☐ Permit #**_____ **NO ☐**

Section IV. Other Information.

A. A Stormwater Pollution Prevention Plan (SWPPP) must be prepared in accordance with the requirements of the General VPDES Permit for Discharges of Stormwater from construction activities prior to submitting the registration statement. By signing the registration statement, the operator certifies the SWPPP has been prepared.	
B. Has an Erosion and Sediment Control Plan been submitted to the VESC Authority for review?	**YES ☒ NO☐**
Erosion and Sediment Control Plan Approval Date: (for the estimated area to be disturbed; MM/DD/YYYY)	04/22/2024
C. Has land-disturbance commenced?	**YES ☐ NO ☒**
D. Standards and Specifications. If this project is utilizing approved Standards and Specifications (S&S), attach the completed S&S Entity Form.	
E. Will nutrient credits be used to comply with the water quality design criteria requirements (9VAC25-875-580)? **YES ☒ NO ☐** (If yes, please include a copy of the letter of availability from an appropriate nutrient bank that nonpoint source nutrient credits are available.)	

Section V. Certification. A person representing the operator as identified in Section I.A and meeting the requirements of Part III.K of 9VAC25-880-70 must physically sign this certification. A typed signature is not acceptable. Please note that operator is defined in 9VAC25-875-20 as follows:

> *"Operator" means the owner or operator of any facility or activity subject to the VESMA and this chapter. In the context of stormwater associated with a large or small construction activity, "operator" means any person associated with a construction project that meets either of the following two criteria: (i) the person has direct operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications or (ii) the person has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit or VESMP authority permit conditions (i.e., the person is authorized to direct workers at a site to carry out activities required by the stormwater pollution prevention plan or comply with other permit conditions). In the context of stormwater discharges from an MS4, "operator" means the operator of the regulated MS4 system.*

9VAC25-880-70. Part III.K. Signatory requirements. All registration statements shall be signed as follows:

a. "For a corporation: by a responsible corporate officer. For the purpose of this chapter, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this chapter, a principal executive officer of a public agency includes (i) the chief executive officer of the agency or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency."

Certification: "I certify under penalty of law that I have read and understand this registration statement and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Printed Name: Ken Harper

Signature (signed in ink): Ken Harper

Date Signed: 8/20/24

Section VI. Submittal Instructions. Submit this form to the VESMP Authority. If the locality is the VESMP Authority, please send your registration statement submittal directly to the locality; do NOT send this form to DEQ. A list of local VESMP Authorities is available here: VESMP Authorities.

If DEQ is the VESMP Authority, please send to:

Department of Environmental Quality
Office of Stormwater Management Suite 1400
PO Box 1105
Richmond VA 23218
constructiongp@deq.virginia.gov

If the locality is the VESMP Authority, please send to:

The Local VESMP Authority *(insert address below):*

Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219
P.O. Box 1105, Richmond, Virginia 23218
(800) 592-5482
www.deq.virginia.gov

Travis A. Voyles
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

VAR10#437
August 27, 2024

Smalltown Consultants
ATTN: Ken Harper
Main Street Smalltown, Virginia 23220
Kharper@smalltownconsultants.com

RE: Coverage under the VPDES Construction General Permit (VAR10)
General Permit Number **VAR10#437**
T&L Commercial Development
Private commercial office building
Smalltown, VA Small County 24000

Dear Mr. Harper:

The Virginia Department of Environmental Quality (DEQ) has reviewed your Registration Statement received complete on **8/20/2024** and determined that the proposed **3.7 acre** land-disturbing activity is covered under the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10). The effective date of your coverage under this general permit is July 1, 2024 or the date of this letter, whichever is later. A copy of the general permit may be obtained at the following link:
https://law.lis.virginia.gov/admincode/title9/agency25/chapter880/section70/.

The general permit contains the conditions of coverage and Stormwater Pollution Prevention Plan (SWPPP) requirements. Please print the general permit and read it carefully as you will be responsible for compliance with all permit conditions. Coverage under this construction general permit does not relieve the operator of complying with all other federal, state, or local laws and regulations.

Our records indicate that your site may discharge to waters identified as impaired or exceptional. Please see below for additional requirements:

1. Does this proposed land-disturbing activity discharge to a surface water identified as impaired in the 2022 § 305(b)/303(d) Water Quality Assessment Integrated Report for Benthic Macroinvertebrates Bioassessments or for which a TMDL wasteload allocation has been established and approved prior to the term of the general permit for (i) sediment or a sediment-

related parameter or (ii) nutrients, including all surface waters within the Chesapeake Bay Watershed? **YES.** If YES, then the following general permit (Part I B 4 a) and SWPPP requirements (Part II B 5 and Part II B 8) must be implemented for the land-disturbing activity:

- Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site;
- Nutrients (e.g., fertilizers) shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events;
- Inspections shall be conducted at a frequency of (i) at least once every four (4) business days or (ii) at least once every (5) business days and no later than 24 hours following a measurable storm event. In the event that a measurable storm event occurs when there are more than 24 hours between business days, the inspection shall be conducted on the next business day; and
- Representative inspections used by utility line installation, pipeline construction, or other similar linear construction activities shall inspect all outfalls; and
- Implement the requirements for construction dewatering discharges as outlined in Part II B 8.

2. Does this proposed land-disturbing activity discharge to a surface water identified as impaired in the 2022 § 305(b)/303(d) Water Quality Assessment Integrated Report or for which a TMDL wasteload allocation has been established and approved prior to the term of the general permit for polychlorinated biphenyl (PCB)? **NO**. If YES, then the following general permit (Part I B 4 b) and SWPPP requirements (Part II B 6) must be implemented for the land-disturbing activity **if** the construction activity involves the demolition of structures (i) equal to or greater than 10,000 square feet and (ii) built or renovated on or before January 1, 1980:
   - Implement an approved erosion and sediment control plan;
   - Dispose of PCB-contaminated materials in compliance with applicable state, federal, and local requirements to minimize the exposure of PCB-containing building materials;
   - Inspections shall be conducted at a frequency of (i) at least once every four (4) business days or (ii) at least once every (5) business days and no later than 24 hours following a measurable storm event. In the event that a measurable storm event occurs when there are more than 24 hours between business days, the inspection shall be conducted on the next business day; and
   - Representative inspections used by utility line installation, pipeline construction, or other similar linear construction activities shall inspect all outfalls.

3. Does this proposed land-disturbing activity discharge to an exceptional water identified in 9VAC25-260-30 A 3 c? **NO.** If YES, then the following general permit (Part I B 5) and SWPPP requirements (Part II B 7 and Part II B 8) must be implemented for the land-disturbing activity:
   - Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site;
   - Nutrients (e.g., fertilizers) shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events;
   - Inspections shall be conducted at a frequency of (i) at least once every four (4) business days or (ii) at least once every (5) business days and no later than 24 hours following a

measurable storm event. In the event that a measurable storm event occurs when there are more than 24 hours between business days, the inspection shall be conducted on the next business day; and

- Representative inspections used by utility line installation, pipeline construction, or other similar linear construction activities shall inspect all outfalls; and
- Implement the requirements for construction dewatering discharges as outlined in Part II B 8.

The general permit requires that you submit a complete Notice of Termination packet no later than 30 days after meeting one or more of the termination conditions set forth in the general permit (Part I F). In accordance with the Virginia Erosion and Stormwater Management Regulation (9VAC25-875-1420), an annual permit maintenance fee may be required until coverage under this general permit has been terminated. If you are required to pay an annual permit maintenance fee, you will receive an invoice from the appropriate Virginia Erosion and Stormwater Management authority or DEQ when acting in the capacity of the Virginia Stormwater Management Program authority.

The general permit will expire on June 30, 2029. The conditions of the general permit require that you submit a new registration statement at least 90 days prior to that date if you wish to continue coverage under the general permit unless permission for a later date has been granted by the Board. Permission cannot be granted to submit the registration statement after the expiration date of the general permit.

If you have any questions about this permit, please contact the DEQ Office of Stormwater Management at ConstructionGP@deq.virginia.gov.

Sincerely,

Rebeccah Rochet, P.E.
Deputy Director
Division of Water Permitting

Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

www.deq.virginia.gov

General Permit No.: VAR10

Effective Date: July 1, 2024

Expiration Date: June 30, 2029

GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA EROSION AND STORMWATER MANAGEMENT PROGRAM AND THE VIRGINIA EROSION AND STORMWATER MANAGEMENT ACT

In compliance with the provisions of the Clean Water Act, as amended, and pursuant to the Virginia Erosion and Stormwater Management Act and regulations adopted pursuant thereto, operators of construction activities are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those specifically named in State Water Control Board regulations that prohibit such discharges.

The authorized discharge shall be in accordance with the registration statement filed with the Department of Environmental Quality, this cover page, Part I - Discharge Authorization and Special Conditions, Part II - Stormwater Pollution Prevention Plan, and Part III - Conditions Applicable to All VPDES Permits as set forth in this general permit.

For stormwater discharge associated with a small construction activity of a single-family detached residential structure, within or outside a common plan of development or sale, the authorized discharge shall be in accordance with this cover page, Part I - Discharge Authorization and Special Conditions, Part II - Stormwater Pollution Prevention Plan, and Part III - Conditions Applicable to All VPDES Permits as set forth in this general permit.

1 Project Description

T & L Commercial Development is proposing to develop a 6.7 acre vacant lot. The lot is located in Small County at 1111 Landry Lane. The project includes the construction of one 20,000 SF office building. Two travel lanes connect two separate parking lots, one on either side of the office building to Landry Lane. An employee picnic area is located at the rear of the office building and connected to the western parking lot. The McCutcheon Pedestrian plaza and outdoor walkways connect various entrances to the building and parking lots. The parking lots provide a total of 70 parking spaces. The total traffic average daily trips to the site is estimated to be 100.

The office park is intended to meet the needs of a functioning business while also offering places for employees to enjoy the outdoors. Providing the patio area adjacent to an open turf area and meadow allow for a more aesthetically open and natural place for employees to escape the office if only for a few minutes. The site is zoned B-2 and the development is a by-right development with no special provisions or waivers. The adjacent properties to the east, north, and west are all vacant and forested.

2 Existing Site Conditions

The vast majority of the existing site is a grassed, open field, with a small portion along the northern edge of the property that is forested. There is approximately 5.8 acres of fair conditioned open space and 0.9 acres of forest. The site is on moderate slopes, with an average slope of 7% sloping mostly down to Landry Lane, with the eastern and western edges draining to either side. The soils are predominantly Hydrologic Soil Group (HSG) C soils, as indicated by the NRCS Websoil Survey, which indicates moderately well drained soils. Specifically they are classified as Codorus silt loam (43%) and Delanco loam (57%).

There are no known wetlands or streams on-site, however the southern edge of the property along Landry Lane drains through an existing 18” RCP pipe under the road to an existing stream, called Harper Creek. Harper Creek is an intermittent stream and is in poor condition, with a down cutting

LEGEND:

- PROJECT LIMITS
- APPROXIMATE STREAM CHANNEL LIMITS
- PROPOSED DRAINAGE AREA
- EXISTING TOPOGRAPHY
- PROPOSED GRADING
- EXISTING CULVERT
- EXISTING SOIL LIMITS (MI)
- PROPOSED PARKING LOT
- PROPOSED SIDEWALK
- PROPOSED TREELINE
- PROPOSED CONSTRUCTION ENTRANCE (CE)
- PROPOSED SILT FENCE (SF)
- PROPOSED DIVERSION DIKE (DD)
- PROPOSED INLET PROTECTION (IP)
- PROPOSED SEDIMENT TRAP (ST)
- PROPOSED TEMPORARY SEEDING (TS)
- PROPOSED BLANKET MATTING (BM)

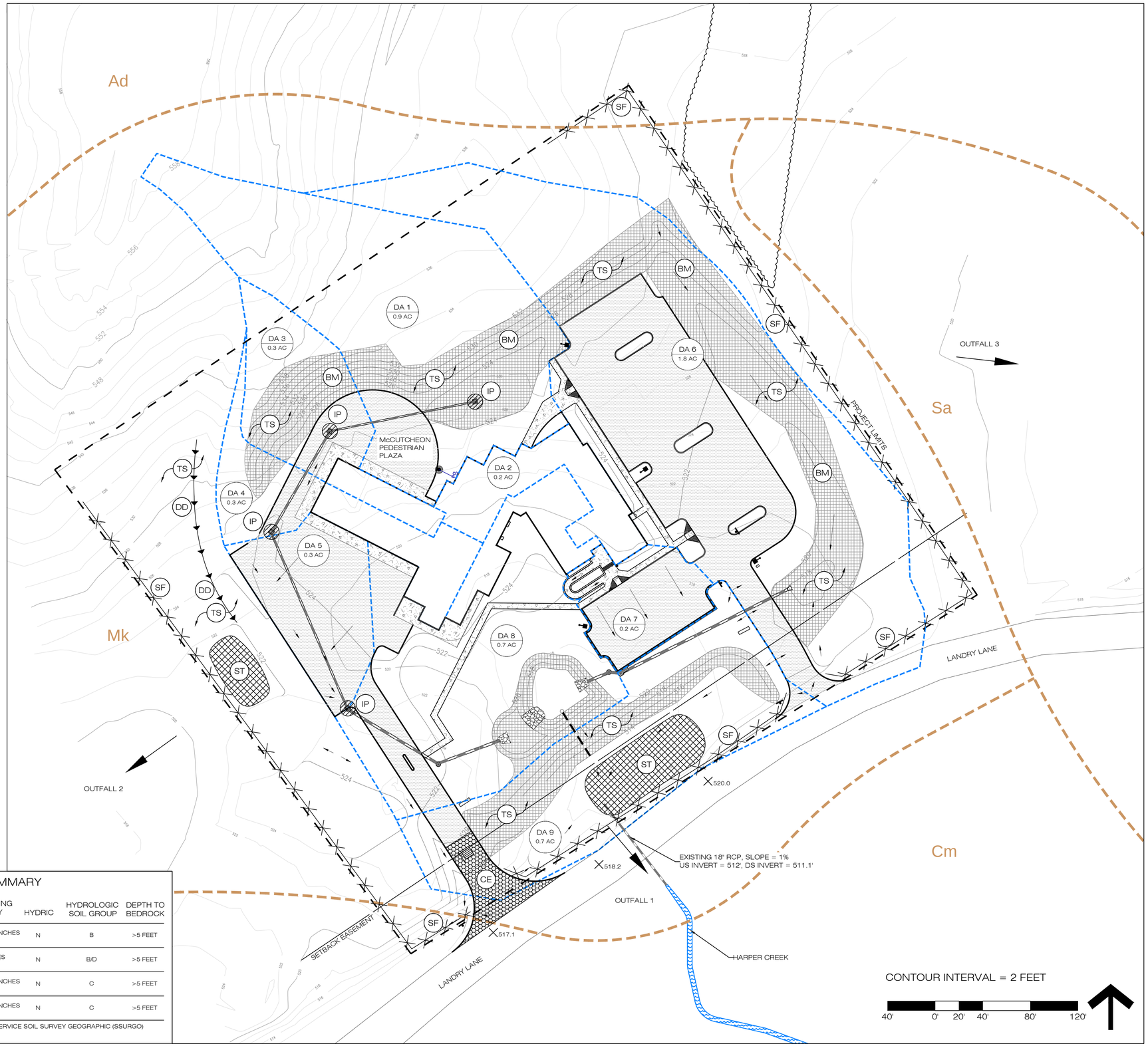
PROPOSED PROJECT AREA DATA:

PROJECT AREA	6.7 ACRES ±
OPEN SPACE (PROJECT LIMITS)	3.50 ACRES ±
MANAGED TURF (PROJECT LIMITS)	1.25 ACRES ±
IMPERVIOUS (PROJECT LIMITS)	1.95 ACRES ±
CURVE NUMBER	79

SOIL SERIES SUMMARY

MAP SYMBOL	SOIL NAME	SLOPE (%)	DRAINAGE	WATER TABLE/FLOODING FREQUENCY	HYDRIC	HYDROLOGIC SOIL GROUP	DEPTH TO BEDROCK
Ad	APPLING FINE SANDY LOAM	2 - 7	WELL DRAINED	MORE THAN 80 INCHES	N	B	>5 FEET
Cm	CHEWACLA SILT LOAM	0 - 2	SOMEWHAT POORLY DRAINED	6 - 18 INCHES	N	B/D	>5 FEET
Mk	MECKLENBURG LOAM	2 - 7	WELL DRAINED	MORE THAN 80 INCHES	N	C	>5 FEET
Sa	SENECA FINE SANDY LOAM	2 - 7	MODERATELY WELL DRAINED	MORE THAN 80 INCHES	N	C	>5 FEET

SOURCE: U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE SOIL SURVEY GEOGRAPHIC (SSURGO) DATABASE FOR THE PRINCE EDWARD COUNTY, VIRGINIA



VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

APRIL 2014

SMALLTOWN, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

SITE PLANNING DIVISION

T&L COMMERCIAL DEVELOPMENT
EROSION & SEDIMENT CONTROL PLAN

DEQ TRAINING CASE STUDY

SHEET 5

SCALE 1"=40'

DESIGNED BY: K PROPST
DRAFTED BY: K PROPST
CHECKED BY: J SMITH

REVISIONS	DESCRIPTION	BY	APPROVED	DATE
1	APPROVED BY SITE PLANNING DIVISION			

EROSION AND SEDIMENT CONTROL PLAN
T & L DEVELOPMENT

APPLICANT

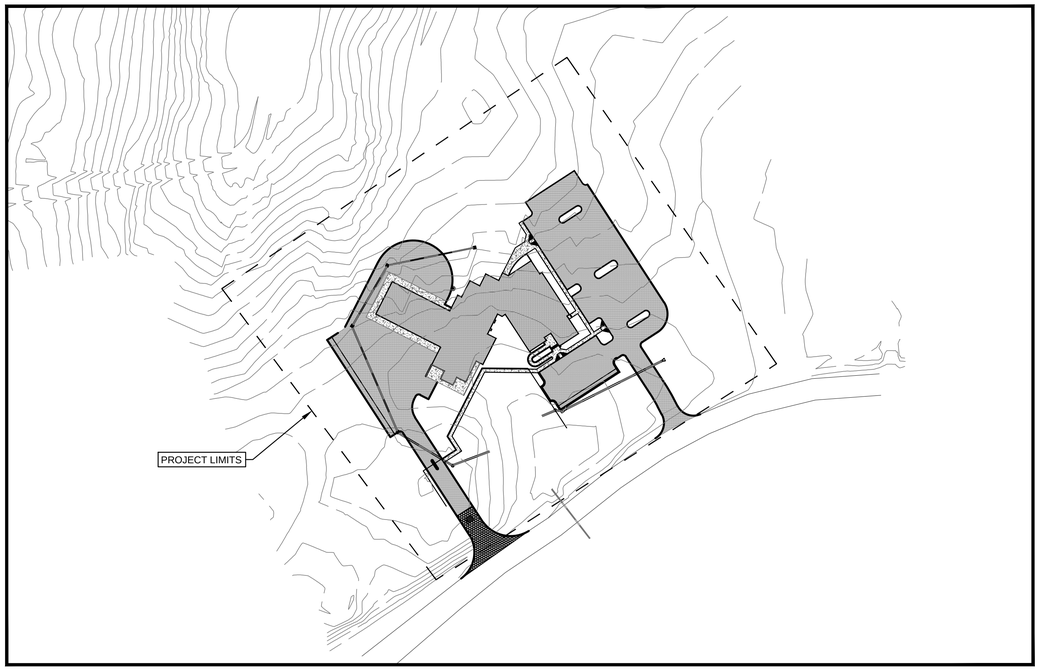
SMALLTOWN CONSULTANTS
SMALLTOWN, VA.
ATTN: KEN HARPER

BASE INFORMATION

VA DEQ

STATISTICAL DATA

PROJECT LIMITS (APPROXIMATE)	6.7 ACRES ±
OPEN SPACE (PROJECT LIMITS)	
MANAGED TURF (PROJECT LIMITS)	
IMPERVIOUS (PROJECT LIMITS)	



PROJECT NARRATIVE:

THE PURPOSE OF THIS STORMWATER AND EROSION AND SEDIMENT CONTROL PLAN IS TO PROVIDE SPECIFICATION ON MANAGEMENT OF STORMWATER RUNOFF DURING AND AFTER CONSTRUCTION ACTIVITIES. THIS PLAN IS MEANT TO DEPICT EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT DESIGN ONLY.

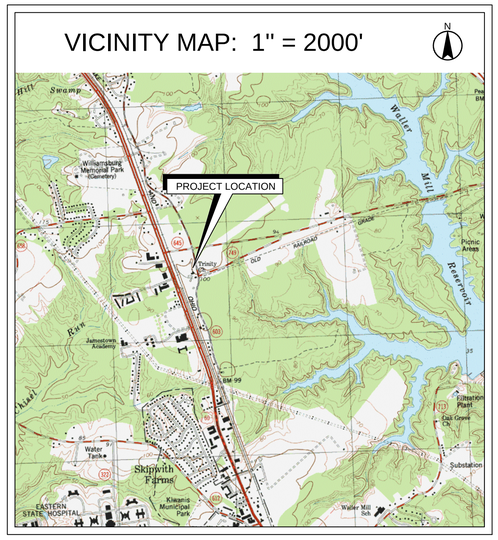
THIS PROJECT INCLUDES CLEARING EXISTING LOT AND THE CONSTRUCTION OF A NEW MULTI-STORY OFFICE COMPLEX AND PARKING. ACCORDING TO THE FLOOD INSURANCE RATING MAP (FIRM), THERE ARE NO BASE FLOOD ELEVATIONS (BFE) FOR THIS SITE.

THE PRIMARY OBJECTIVE OF THIS DESIGN IS TO MINIMIZE ENVIRONMENTAL DISTURBANCE TO THE MAXIMUM EXTENT PRACTICABLE AND MEET LOCAL REQUIREMENTS FOR STORMWATER QUANTITY AND QUALITY CONTROL.

LOW IMPACT DEVELOPMENT (LID) TECHNIQUES AND STORMWATER BEST MANAGEMENT PRACTICES (BMPs) SUCH AS BIORETENTION AND PERMEABLE PAVEMENTS ARE PROPOSED TO MEET THESE OBJECTIVES.

SHEET INDEX

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY



DATE: 4/2/2024
FIRST SUBMITTAL

REVISIONS:

DATE	DATE

APRIL 2014

SMALLTOWN, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

SITE PLANNING DIVISION

T&L COMMERCIAL DEVELOPMENT
COVER

DEQ TRAINING CASE STUDY

SCALE 1"=40'

DESIGNED BY: K PROPST
DRAFTED BY: K PROPST
CHECKED BY: J SMITH

SHEET 1

REVISIONS	DESCRIPTION	BY	APPROVED	DATE
1	APPROVED BY SITE PLANNING DIVISION			

EROSION AND SEDIMENT CONTROL NARRATIVE:

THE PURPOSE OF THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE TO PRECLUDE THE TRANSPORT OF SEDIMENTS RESULTING FROM CONSTRUCTION ACTIVITIES FROM ENTERING ONTO ADJACENT PROPERTIES AND STATE WATERS. IF FIELD INSPECTION REVEALS THE INADEQUACY OF THE PLAN TO CONFINE SEDIMENT TO THE PROJECT SITE, ALL APPROPRIATE MODIFICATIONS WILL BE MADE TO CORRECT ANY PLAN DEFICIENCIES.

PROJECT DESCRIPTION

A DEVELOPER IN SMALLTOWN, VIRIGINIA IS PROPOSING TO CONSTRUCT AN OFFICE PARK ON EXISTING DENUDED LAND. THIS PROJECT INCLUDES THE CLEARING AND GRADING OF THE LAND ALONG WITH THE CONSTRUCTION OF THE OFFICE PARK. THIS PROJECT IS PART OF THE DEVELOPER'S EFFORTS TO INCREASE COMMERCIAL BUSINESS IN SMALLTOWN.

THE PROJECT INCLUDES APPROXIMATELY 6.7 ACRES OF LAND DISTURBANCE.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION, 1992. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL APPLICABLE MEASURES CONTAINED THEREIN THAT MAY BE PERTINENT TO THIS PROJECT THESE STANDARDS WILL APPLY IN ADDITION TO THE PROVISIONS OF THE APPROVED PLAN.

2. PRIOR TO INITIATING LAND-DISTURBING ACTIVITIES, THE NAME OF A RESPONSIBLE LAND-DISTURBER SHALL BE PROVIDED. THE CONTACTS LISTED ON THE COVER SHEET SHALL SERVE AS THE PROJECT RESPONSIBLE LAND DISTURBER FOR PLANNING PURPOSES. THE RESPONSIBLE LAND-DISTURBER SHALL BE AN INDIVIDUAL WHO HOLDS A VALID CERTIFICATION OF COMPETENCE ISSUED BY THE VIRGINIA DEPARTMENT OF CONSERVATION AND IS DEFINED AS THE PERSON IN CHARGE OF AND RESPONSIBLE FOR CARRYING OUT THE LAND-DISTURBING ACTIVITY. IF THE PERSON DESIGNATED AS RESPONSIBLE LAND-DISTURBER CHANGES BETWEEN THE TIME OF PLAN APPROVAL AND THE SCHEDULED PRECONSTRUCTION MEETING, THE APPROPRIATE PARTIES SHALL BE INFORMED OF THE CHANGE, IN WRITING, 24 HOURS IN ADVANCE OF THE PRECONSTRUCTION MEETING. THE PROJECT SWPPP NOTEBOOK SHALL ALSO BE UPDATED ACCORDINGLY.

3. A PRECONSTRUCTION MEETING SHALL BE HELD ON SITE BETWEEN THE PROJECT ENGINEER, THE EROSION AND SEDIMENT CONTROL INSPECTOR, THE RESPONSIBLE LAND-DISTURBER, AND THE CONTRACTOR PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION FOR APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING. THE DESIGNATED RESPONSIBLE LAND-DISTURBER IS REQUIRED TO ATTEND THE PRECONSTRUCTION MEETING FOR THE PROJECT.

4. THE CONSTRUCTION COORDINATOR AND/OR EROSION AND SEDIMENT CONTROL INSPECTORS HAVE THE AUTHORITY TO REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROLS IN AREAS WHERE FIELD CONDITIONS DICTATE THAT THE PLAN NEEDS TO BE MODIFIED.

5. QUALIFIED PERSONNEL SHALL PROVIDE AND DOCUMENT SWPPP INSPECTIONS AT THE FOLLOWING FREQUENCY: ONCE EVERY 10 BUSINESS DAYS AND NO LATER THAN 48 HOURS FOLLOWING A MEASURABLE STORM EVENT, OR A MINIMUM OF ONCE EVERY 5 BUSINESS DAYS. CONSTRUCTION ACTIVITIES THAT DISCHARGE TO IMPAIRED WATERS, SURFACE WATERS WITH A TMDL APPROVED, OR EXCEPTIONAL WATERS (AS DEFINED IN THE SWPPP) SHALL BE INSPECTED A MINIMUM OF EVERY 5 BUSINESS DAYS AND NO LATER THAN 48 HOURS FOLLOWING A MEASURABLE STORM EVENT, OR A MINIMUM OF EVERY 4 BUSINESS DAYS.

6. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS FROM PUBLIC ROADS SHALL BE PROTECTED BY A TEMPORARY CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS. AN ENTRANCE PERMIT FROM VDOT IS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN STATE RIGHT-OF-WAYS. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE THOROUGHLY CLEANED AT THE END OF EACH DAY (STD. & SPEC 3.02).

7. SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON-SITE MUST BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER INSTALLATION. PERIODIC INSPECTIONS OF THE EROSION CONTROL MEASURES BY THE OWNER OR OWNERS REPRESENTATIVE SHALL BE MADE TO ASSESS THEIR CONDITION. ANY NECESSARY MAINTENANCE OF THE MEASURES SHALL BE ACCOMPLISHED IMMEDIATELY AND SHALL INCLUDE THE REPAIR MEASURES DAMAGED BY ANY SUBCONTRACTOR.

8. SEDIMENT CONTROL MEASURES MAY REQUIRE MINOR FIELD ADJUSTMENTS AT TIME OF CONSTRUCTION TO ENSURE THEIR INTENDED PURPOSE IS ACCOMPLISHED. APPROVAL WILL BE REQUIRED FOR DEVIATIONS FROM THE APPROVED PLANS.

9. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO ALL DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

10. AN APPROPRIATE DEWATERING STRUCTURE (STD. & SPEC. 3.26) SHALL BE EMPLOYED WHEREVER DEWATERING IS NECESSARY TO REMOVE WATER FROM EVACUATED AREAS OR WHEREVER ELSE DISCHARGE OF SEDIMENT LADEN WATER IS EXPECTED

11. IF DISTURBED AREA STABILIZATION IS TO BE ACCOMPLISHED DURING THE MONTHS OF DECEMBER, JANUARY, OR FEBRUARY, STABILIZATION SHALL CONSIST OF MULCHING (STD. & SPEC 3.32). SEEDING WILL THEN TAKE PLACE AS SOON AS THE SEASON PERMITS.

12. THE TERM SEEDING, FINAL VEGETATIVE COVER OR STABILIZATION ON THIS PLAN SHALL MEAN THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF A STABLE GROUND COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF SEED, LIME, AND FERTILIZER (STD. &SPEC. 3.32).

13. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. ALL SLOPES STEEPER THAN 3:1, OR AS OTHERWISE INCLUDED IN THIS PLAN, SHALL REQUIRE THE USE OF EROSION CONTROL BLANKETS AND MATTING TO AID IN THE ESTABLISHMENT OF A VEGETATIVE COVER. INSTALLATION SHALL BE IN ACCORDANCE WITH, STD. & SPEC. 3.36, SOIL STABILIZATION BLANKETS AND MATTING AND MANUFACTURERS INSTRUCTIONS.

14. TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. TRAPPED SEDIMENT SHALL BE SPREAD, SEEDED AND MULCHED. AFTER THE PROJECT AND STABILIZATION IS COMPLETE, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS.

CONTROL MEASURES

ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, SECOND EDITION, 1992 (VESCH). THE FOLLOWING PRACTICES ARE PROPOSED:

TEMPORARY STONE CONSTRUCTION ENTRANCE, CE (VESCH STD. & SPEC. 3.02) – TEMPORARY STONE CONSTRUCTION ENTRANCES SHALL BE USED AT SELECT POINTS OF INGRESS AND EGRESS FROM PUBLIC ROADWAYS TO STABILIZE THE ACCESS POINT AND MINIMIZE THE TRANSPORT OF SEDIMENT OFFSITE. OTHER ENTRANCES MAY CONSIST OF TIMBER MATS ALONE, AS SPECIFIED HEREIN. GRAVEL CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED OF VDOT #1 COARSE AGGREGATE OR LARGER AS SPECIFIED HEREIN. A MINIMUM OF 6-INCHES THICK, AND A MINIMUM OF 70 FEET LONG. A LAYER OF FILTER CLOTH SHALL BE PLACED UNDERNEATH THE STONE TO SEPARATE THE STONE FROM THE UNDERLYING SOILS. AN OPTIONAL WASH RACK MAY BE USED IF CONDITIONS REQUIRE IT, WITH A SEDIMENT TRAP PLACED TO COLLECT RUNOFF FROM THE WASH RACK. IN SOME CASES WHERE CONSTRUCTION ACCESS IS LIMITED, THE PLAN MAY CALL FOR TIMBER MAT CONSTRUCTION ENTRANCES TO AVOID LAND DISTURBING TO CONSTRUCT THE CE.THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODICALLY TOPDRESSING THE ENTRANCE WITH ADDITIONAL STONE OR WASHING THE EXISTING STONE.

SILT FENCE, SF (VESCH STD. & SPEC. 3.05) - SILT FENCE SHALL BE USED TO PROVIDE SEDIMENT TRAPPING AT SPECIFIED LOCATIONS MAINLY AT SENSITIVE AREAS WHERE TOWER CONSTRUCTION IS TO OCCUR.SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. CLOSE ATTENTION SHALL BE PAID TO REPAIR DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE, THE FABRIC SHALL BE REPLACED PROMPTLY.

INLET PROTECTION (VESCH STD. & SPEC. 3.07)

A SEDIMENT FILTER INSTALLED AROUND THE GRATED DROP INLET TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM DUE TO EQUIPMENT TRAFFIC DURING CONSTRUCTION PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. THE INLET PROTECTION SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT.

SOIL STABILIZATION BLANKETS AND MATTING (VESCH STD. & SPEC. 3.36)

THE INSTALLATION OF A PROTECTIVE COVERING (BLANKET) OR A SOIL STABILIZATION MAT ON A PREPARED PLANTING AREA OF A STEEP SLOPE, CHANNEL, OR SHORELINE. BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAIN TO FOR EROSION OR UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUT OR BREAKAGE OCCURS, REINSTALL THE MATERIAL. BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAIN TO FOR EROSION OR UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUT OR BREAKAGE OCCURS, REINSTALL THE MATERIAL.

DIVERSION DIKE (VESCH STD. & SPEC. 3.09)

TO DIVERT STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM UNPROTECTED AREAS AND SLOPES TO A STABILIZED OUTLET. TO DIVERT SEDIMENT-LADEN RUNOFF FROM A DISTURBED AREA TO A SEDIMENT-TRAPPING FACILITY SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN.

SEDIMENT TRAP (VESCH STD. & SPEC. 3.13)

A TEMPORARY PONDING AREA FORMED BY CONSTRUCTING AN EARTHEN EMBANKMENT WITH A STONE OUTLET. TO DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT.

TEMPORARY SEEDING (VESCH STD. & SPEC. 3.31)

THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS. TO REDUCE EROSION AND SEDIMENTATION BY STABILIZING DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 14 DAYS. TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM OR OFF-SITE AREAS, AND TO PROVIDE PROTECTION TO BARE SOILS EXPOSED DURING CONSTRUCTION UNTIL PERMANENT VEGETATION OR OTHER EROSION CONTROL MEASURES CAN BE ESTABLISHED.

LIMITS OF DISTURBANCE

1. PRIOR TO CONSTRUCTION, TIMBER ACTIVITIES WILL OCCUR WITHIN THE LIMITS OF CLEARING. ALL CLEARING WILL LEAVE THE ROOT MASS INTACT AND THE SOIL UNDISTURBED AND IS NOT CONSIDERED A LAND DISTURBING ACTIVITY. SELECT AREAS WILL REQUIRE ADDITIONAL PRECAUTIONS THROUGH HAND CLEARING ALONE. USE WOOD CHIPS IN UPLANDS AS GROUND COVER AFTER CLEARING.
2. LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO THE TOWER WORK AREAS AND ACCESS ROUTES IDENTIFIED ON THESE PLANS.
3. SITE DEMOLITION, UTILITY CONSTRAINTS, ASPHALT REPAIRS, OR ANY OTHER SITE FEATURES OTHER THAN E&S ARE NOT ADDRESSED HEREIN BUT SHALL BE ADDRESSED BY OTHERS AS NEEDED.
4. ALL CONSTRUCTION ACTIVITIES WITHIN THE FEMA FLOODPLAIN (APPROXIMATE LIMITS SHOWN HEREIN) OR OTHER FLOOD MANAGEMENT AREAS, SHALL AVOID FILL ABOVE EXISTING GRADES, OR PROPER ADVANCED COORDINATION WITH THE ENGINEER AND AGENCIES SHALL OCCUR TO AUTHORIZE WORK.
5. CONSTRUCTION ROAD STABILIZATION WITHIN CONSERVATION EASEMENTS TO BE COORDINATED WITH CONSERVATION EASEMENT HOLDERS.

CONSTRUCTION SEQUENCE

1. HOLD A PRECONSTRUCTION MEETING ONSITE BETWEEN THE CONSTRUCTION COORDINATOR, CONTRACTOR(S) AND INSPECTOR.
2. INSTALL CONSTRUCTION ENTRANCES AND CONSTRUCTION ROAD STABILIZATION.
3. PERFORM CLEARING AS NEEDED FOR CONSTRUCTION ACCESS.
4. INSTALL ESC MEASURES PRIOR TO ANY LAND DISTURBING ACTIVITIES.
5. PERFORM BUILDING AND PARKING LOT CONSTRUCTION.
6. PERFORM CONTINUOUS TEMPORARY AND/OR PERMANENT SITE REHABILITATION PER THE NOTES HEREIN.

CONTRACTOR RESPONSIBILITY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE MEASURES TO PROVIDE EROSION AND SEDIMENT CONTROL BOTH WITHIN AND OUTSIDE THE PROPERTY LIMITS. THE CONTRACTOR SHALL FOLLOW A POLICY OF KEEPING LAND DISTURBING ACTIVITIES TO A MINIMUM, CONSISTENT WITH GOOD CONSTRUCTION PRACTICES AND LONG-TERM ENVIRONMENTAL CONSIDERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY STABILIZATION OF ALL AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES UNTIL FINAL REHABILITATION AND STABILIZATION IS COMPLETE.

MINIMUM STANDARDS

MS-1 STABILIZATION OF DENUDED AREAS - PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

MS-2 STABILIZATION OF SOIL STOCKPILES - DURING CONSTRUCTION, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.

MS-3 ESTABLISHMENT OF PERMANENT VEGETATION - A PERMANENT VEGETATIVE COVER (>80%) SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED

MS-4 TIMING AND STABILIZATION OF SEDIMENT TRAPPING MEASURES - SEDIMENT TRAPS, SILT FENCE, STRAW WATTLES AND ALL OTHER SEDIMENT BARRIERS, SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE

MS-5 STABILIZATION OF SEDIMENT TRAPPING MEASURES - STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION

MS-6 SEDIMENT BASINS - SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR THE BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE LESS THAN THREE (3) ACRES. SEDIMENT BASINS ARE NOT TYPICALLY USED BECAUSE THEY ARE GENERALLY NOT APPLICABLE FOR THE NATURE OF ELECTRIC TRANSMISSION LINE CONSTRUCTION ACTIVITIES.

MS-7 DESIGN, CONSTRUCTION, AND STABILIZATION OF CUT AND FILL SLOPES - CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT WILL MINIMIZE EROSION.

MS-8 CONCENTRATED RUNOFF CONTAINED IN ADEQUATE TEMPORARY OR PERMANENT CHANNEL - CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

MS-9 ADEQUATE DRAINAGE PROTECTION FROM WATER SEEPS - WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE, OR OTHER PROTECTION SHALL BE PROVIDED.

MS-10 STORM SEWER INLET PROTECTION - ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED AGAINST SEDIMENT-LADEN WATER.

MS-11 STABILIZATION OF ONSITE WATERWAYS AND OUTLETS - BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION SHALL BE INSTALLED. ONSITE STORMWATER CONVEYANCE CHANNELS ARE NOT TYPICALLY USED BECAUSE THEY ARE GENERALLY NOT APPLICABLE FOR THE NATURE OF THE ELECTRIC TRANSMISSION LINE CONSTRUCTION ACTIVITIES.

MS-12 WORK IN LIVE WATERCOURSE - WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT, AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.

MS-13 CROSSING LIVE WATERCOURSE - WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX (6) MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED ON NON-ERODIBLE MATERIAL SHALL BE PROVIDED.

MS-14 COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS FOR WORK IN LIVE WATERCOURSES - WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, ALL WORK MUST BE DONE IN SUCH A MANNER AS TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

MS-15 STABILIZATION OF WATERCOURSE BED AND BANKS - THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MS-16 UNDERGROUND UTILITY CONSTRUCTION - AT A MINIMUM, UNDERGROUND UTILITY LINES MUST BE INSTALLED USING THE FOLLOWING STANDARDS:

A) NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME. ANY TRENCH LENGTH VARIANCE WILL REQUIRE SEPARATE APPROVAL FROM DEQ;

B) EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES;

C) EFFLUENT FROM DEWATERING OPERATIONS SHALL BE APPROPRIATELY FILTERED AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFFSITE PROPERTY;

D) MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED TO MINIMIZE EROSION AND PROMOTE STABILIZATION;

STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPROPRIATE REGULATIONS

MS-17 CONSTRUCTION ACCESS ROADS - WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. ACCESS ROADS TO AND WITHIN THE PROPERTY LIMITS SHALL BE CONSTRUCTED OF A NON-ERODIBLE, PERMEABLE SURFACE AND SHALL NOT IMPEDE THE FLOW OF WATER. CONSTRUCTION OF ACCESS ROADS SHALL BE IN ACCORDANCE WITH THE PERMEABLE ACCESS ROAD AND ENTRANCE DETAIL PROVIDED IN APPENDIX B.

MS-18 DISPOSITION OF TEMPORARY MEASURES - ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION OR WHEN TEMPORARY MEASURES ARE NO LONGER NEEDED.

OFFSITE AREAS

OFFSITE AREAS TO BE DECIDED.

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

APRIL 2014

SMALLTOWN, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

SITE PLANNING DIVISION

T&L COMMERCIAL DEVELOPMENT
EROSION & SEDIMENT NOTES

DEQ TRAINING CASE STUDY

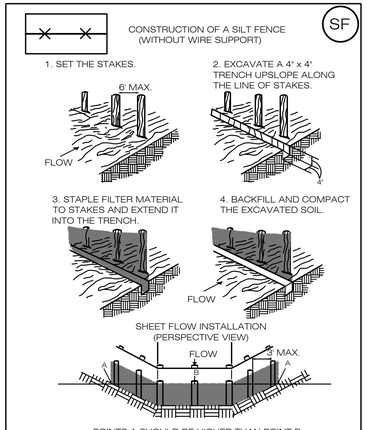
SCALE 1"=40'

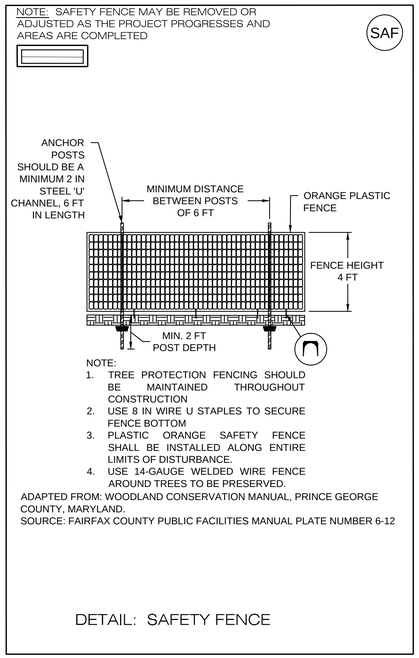
DESIGNED BY: K PROPST
DRAFTED BY: K PROPST
CHECKED BY: J SMITH

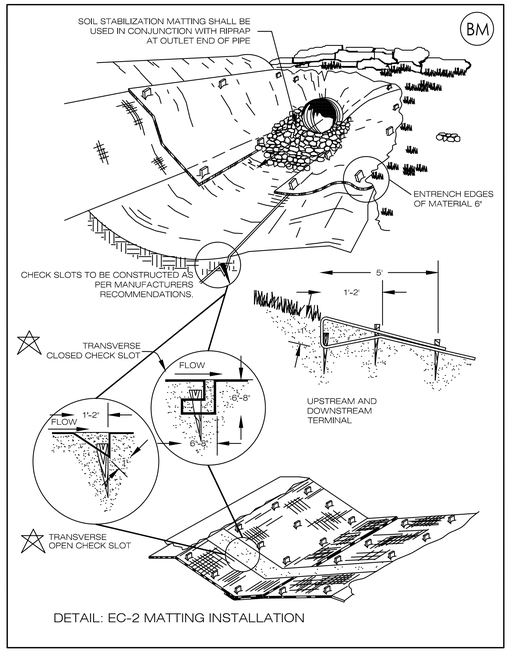
SHEET 6

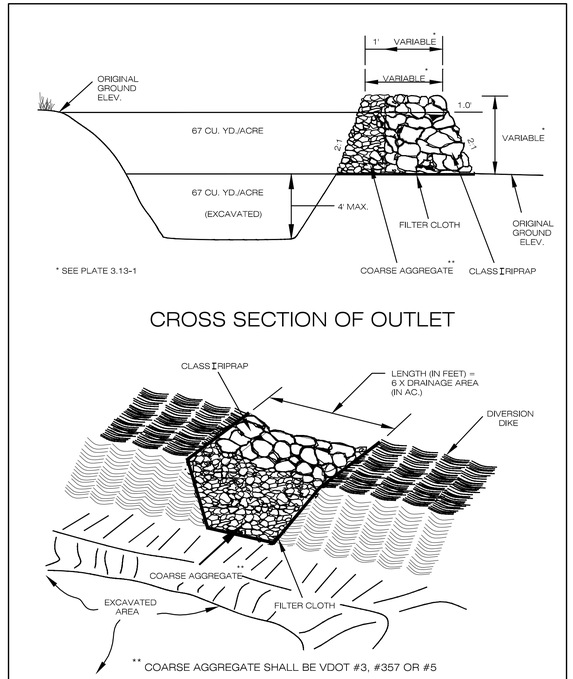
REVISIONS

NO	DESCRIPTION	BY	APPROVED	DATE
1	APPROVED BY SITE PLANNING DIVISION			









PERMANENT SEEDING:

TYPE OF SLOPE	SEED	TOTAL LBS PER ACRE
GENERAL SLOPE (3:1 OR LESS)	KENTUCKY 31 FESCUE RED TOP GRASS SEASONAL NURSE CROP**	128 LBS 2 LBS 20 LBS
LOW MAINTENANCE SLOPE (STEEPER THAN 3:1)	KENTUCKY 31 FESCUE RED TOP GRASS SEASONAL NURSE CROP** PARTRIDGE DEA	108 LBS 2 LBS 20 LBS 20 LBS

** USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW

MARCH, APRIL THROUGH MAY 15TH.....ANNUAL RYE
MAY 16TH THROUGH AUGUST 15TH.....FOXTAIL MILLET
AUGUST 16TH THROUGH SEPT, OCT.....ANNUAL RYE
NOVEMBER THROUGH FEBUARY.....WINTER RYE

TEMPORARY SEEDING:

PLANTING DATES	SPECIES	RATE (LBS/ACRE)
SEPT. 1 - FEB 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) OR CEREAL (WINTER) RYE (SECALE CEREALE)	50-100
FEB. 16 - APR. 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60-100
MAY 1 - AUG 31	GERMAN MILLET (SETARIA ITALICA)	50

DETAIL: PLANTING AND SEEDING

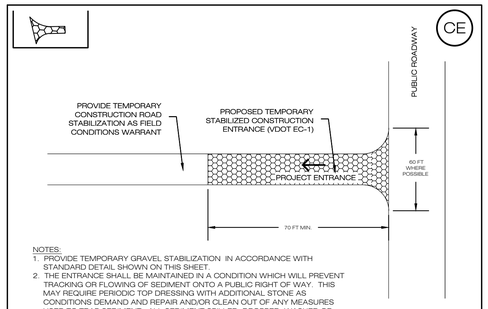
SEDIMENT TRAP CALCULATIONS

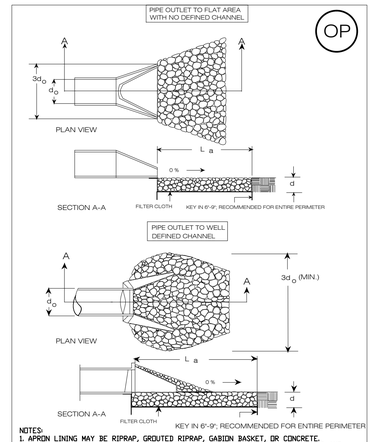
SEDIMENT TRAP OUTFALL 1
DA = 5.3 ACRES
REQUIRED STORAGE = 134 CY PER ACRE = 710.2 CY
WET STORAGE VOLUME = 0.85 X NORMAL POOL S.A. X WET DEPTH
THE REQUIRED WET S.A. = 355.1 CY / (0.85 X 4 FT) = 313.3 SY

DRY STORAGE VOLUME = [(NORMAL POOL S.A. + DRY STORAGE S.A.) /2] X DRY DEPTH
THE REQUIRED DRY S.A. = [2 X (355.1 CY / 3 FT)] - 313.3 SY = 396.9 SY

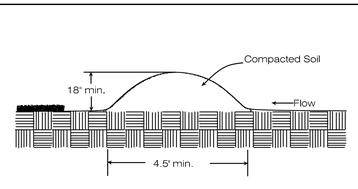
SEDIMENT TRAP OUTFALL 2
DA = 1.05 ACRES
REQUIRED STORAGE = 134 CY PER ACRE = 140.7 CY
WET STORAGE VOLUME = 0.85 X NORMAL POOL S.A. X WET DEPTH
THE REQUIRED WET S.A. = 70.35 CY / (0.85 X 4 FT) = 62.1 SY

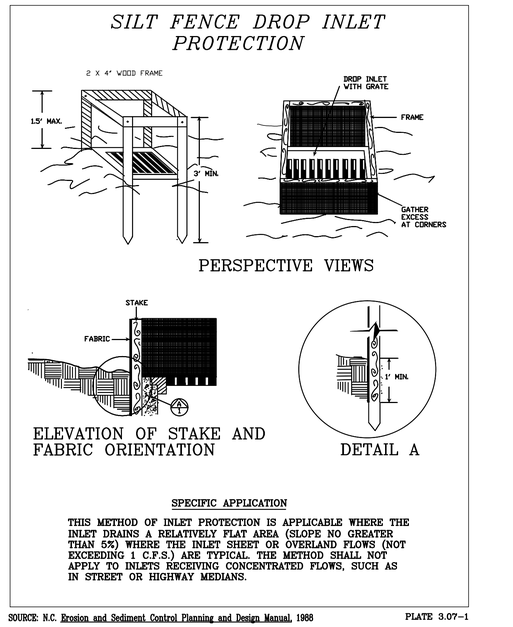
DRY STORAGE VOLUME = [(NORMAL POOL S.A. + DRY STORAGE S.A.) /2] X DRY DEPTH
THE REQUIRED DRY S.A. = [2 X (70.35 CY / 3 FT)] - 62.1 SY = 78.6 SY





SEDIMENT TRAP SUMMARY		
NODE	1	2
WET POOL S.A.	313.3 SY	62.1 SY
WET STORAGE EXCAVATION DEPTH	4 FT	4 FT
TOP OF WET STORAGE ELEVATION	514 FT	522 FT
BOTTOM OF WET SOTRAGE ELEVATION	510 FT	518 FT
TOP OF BANK HEIGHT	3 FT	3 FT
TOP OF BANK ELEVATION	517 FT	525 FT
OUTLET ELEVATION	516.8 FT	524.8 FT
MINIMUM WEIR LENGTH	31.8 FT	6.3 FT
MINIMUM EXCAVATION SIDE SLOPE	1:1	1:1
MINIMUM EMBANKMENT SIDE SLOPE	2:1	2:1
MINIMUM BERM TOP WIDTH	2.5 FT	2.5 FT





SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988 — PLATE 3.07-1

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

APRIL 2014

SMALLTOWN, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

SITE PLANNING DIVISION

T&L COMMERCIAL DEVELOPMENT
EROSION & SEDIMENT CONTROL DETAILS

DEQ TRAINING CASE STUDY

SHEET 7

SCALE 1"=40'
DESIGNED BY: K PROPST
DRAFTED BY: K PROPST
CHECKED BY: J SMITH

REVISIONS			
△	DESCRIPTION	BY	APPROVED / DATE
	APPROVED BY SITE PLANNING DIVISION		

Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Travis A. Voyles
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

8/11/2024

Smalltown Consultants
ATTN: Ken Harper
Main Street Smalltown, Virginia 23220
Transmitted via email: Kharper@smalltownconsultants.com

Re: T&L Commercial Development
Smalltown, Virginia
DEQ SWM #: [2024-#437]
Erosion and Stormwater Management (ESM) Plan Approval

Dear Mr. Harper:

The Department of Environmental Quality (DEQ) has reviewed the Erosion and Stormwater Management (ESM) Plan titled *T&L Commercial Development* and dated *6/26/24,* and revisions dates *7/18/24.* This plan was received on *June 27, 2024* in accordance with the *Virginia Erosion and Stormwater Management Act* and the *Virginia Erosion and attendant regulations*. The ESM Plan dated *June 26, 2024* and with the latest revision date of *July 18, 2024* is hereby approved and a copy is enclosed. **No changes may be made to the approved Plan without obtaining prior approval from DEQ.**

Additionally, approval of the Plan does not relieve the operator of complying with all other federal, state, or local laws and regulations, [Where DEQ is the VSMP Only: **including obtaining project-specific Erosion & Sediment Control (ESC) Plan approval from the Local County.** Please note that ESC Plan approval is required prior to obtaining coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10).**]**

IF NUTRIENT CREDITS ARE USED: In order for the DEQ Central Office Stormwater permitting staff to process your registration statement and issue Construction General Permit coverage for this project, please email a copy of the Affidavit of Sale for the purchase of nutrient credits to ConstructionGP@deq.virginia.gov and include the plan approval number [**2024-#437**] in the email. Land disturbance may not begin until you have received the permit coverage letter.]

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty (30) days from the date you received this decision within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Virginia Department of Environmental Quality.

It is the responsibility of the owner and/or operator to ensure that the project is constructed in accordance with the approved Plan and accompanying specifications. Upon completion of the project, the owner and/or operator will be required to submit a construction record drawing for all permanent stormwater management facilities (i.e., post-development best management practices) constructed in accordance with the approved Plan.

WHEN APPLICABLE*:* Prior to the commencement of construction, all land-disturbing activities equal to or greater than one acre, or less than one acre and part of a larger common plan of development or sale, must register for coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10). If not already submitted, a copy of the General Permit registration statement can be obtained from DEQ's website at the following location:

https://ris.dls.virginia.gov/uploads/9VAC25/forms/CGP%20Registration%20Statement%202019-20201215174140.pdf

WHEN APPLICABLE for Private Plans*:* DEQ acknowledges the receipt of the draft Stormwater Management Inspection & Maintenance Agreement for this project. Comments on this agreement will be provided under separate cover. Please note that the recordation of this agreement in the local land records will be required prior to submitting a Notice of Termination under the General Permit.]

Please contact Nick Shrewsbury at 804-965-4903 or nicholaus.shrewsbury@deq.virginia.gov if you have any questions about this letter.

Respectfully,

April Rhodes, Program Manager

Office of Stormwater Management
Virginia Department of Environmental Quality
(571)866-6091
April.Rhodes@deq.virginia.gov
1111 East Main Street, Suite 1400
Richmond, Virginia 23219

Contents

BMP Design Specifications List: **2024 Draft Stds & Specs - For Review**

Site Summary

Project Title: NA

Date: NA

Update Summary Sheet

Print Preview | Print

Site Land Cover Summary

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest (acres)	0.00	0.00	3.50	0.00	3.50	52
Mixed Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.00	1.25	0.00	1.25	19
Impervious Cover (acres)	0.00	0.00	1.95	0.00	1.95	29
					6.70	100

Site Tv and Land Cover Nutrient Loads

Site Rv	0.34
Treatment Volume (ft^3)	0
TP Load (lb/yr)	2.89
TN Load (lb/yr)	38.88

Total TP Load Reduction Required (lb/yr)	0.00

Site Compliance Summary

Total Runoff Volume Reduction (ft^3)	5,869
Total TP Load Reduction Achieved (lb/yr)	2.32
Total TN Load Reduction Achieved (lb/yr)	30.78
Remaining Post Development TP Load (lb/yr)	0.57
Remaining TP Load Reduction (lb/yr) Required	0.00

** TARGET TP REDUCTION EXCEEDED BY 1.17 LB/YEAR **

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest (acres)	3.50	0.00	0.00	0.00	0.00	3.50
Mixed Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	1.25	0.00	0.00	0.00	0.00	1.25
Impervious Cover (acres)	1.95	0.00	0.00	0.00	0.00	1.95
Total Area (acres)	**6.70**	**0.00**	**0.00**	**0.00**	**0.00**	**6.70**

Appendix B: Water Quantity Calculations

Existing Conditions:

Pre: $S = \frac{1000}{CN} - 10 = \frac{1000}{79} - 10 = 2.7\ in$

$$q_{pre} = \frac{(P - 0.2S)^2}{P + 0.8S} = \frac{\left(2.6 - (0.2 \times 2.7)\right)^2}{2.6 + (0.8 \times 2.7)} = 0.90\ in$$

$$V_{pre} = q \times A \times \frac{1}{12} = 0.90\ in\ \times 5.7\ Ac \times \frac{1ft}{12in} = \mathbf{0.43\ Acre - ft}$$

Proposed Conditions:

Post: $S = \frac{1000}{CN} - 10 = \frac{1000}{78} - 10 = 2.8\ in$

$$q_{post} = \frac{(P - 0.2S)^2}{P + 0.8S} = \frac{\left(2.6 - (0.2 \times 2.8)\right)^2}{2.6 + (0.8 \times 2.8)} = 0.86\ in$$

$$V_{post} = q \times A \times \frac{1}{12} = 0.86\ in\ \times 5.3\ Ac \times \frac{1ft}{12in} = \mathbf{0.38\ Acre - ft}$$

Energy Balance:

$$Q_{post} \leq Q_{pre}\left(\frac{V_{pre}}{V_{post}}\right)$$

$$= 3.6\left(\frac{0.43}{0.38}\right)$$

$$= 4.1\ cfs$$

Allowable Q_1 > Proposed Q_1

LEGEND:

- PROJECT LIMITS
- APPROXIMATE STREAM CHANNEL LIMITS
- PROPOSED DRAINAGE AREA
- EXISTING TOPOGRAPHY
- PROPOSED GRADING
- EXISTING CULVERT
- PROPOSED SITE BMP
- PROPOSED PARKING LOT
- PROPOSED SIDEWALK
- PROPOSED TREELINE

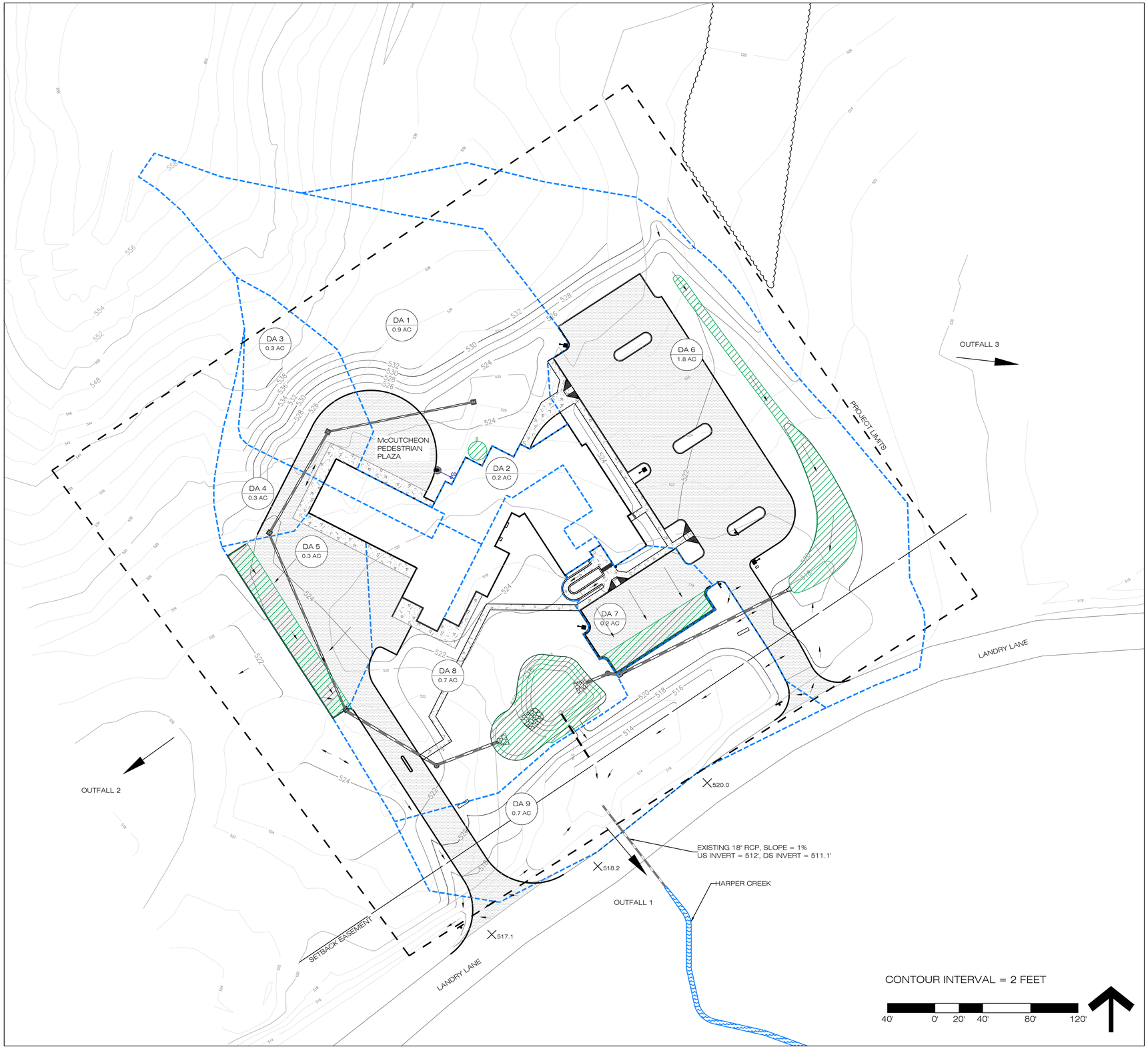
PROPOSED PROJECT AREA DATA:

PROJECT AREA	6.7 ACRES ±
OPEN SPACE (PROJECT LIMITS)	3.50 ACRES ±
MANAGED TURF (PROJECT LIMITS)	1.25 ACRES ±
IMPERVIOUS (PROJECT LIMITS)	1.95 ACRES ±
CURVE NUMBER	79

PROPOSED SITE DATA

DA	AREA (AC)	TREATED IN DA?	TREATMENT	IMPERVIOUS AREA (AC)	OPEN SPACE (AC)	MANAGED TURF (AC)
1	0.90	NO	-	0.10	0.75	0.05
2	0.20	YES	CISTERN	0.20	0.00	0.00
3	0.30	NO	-	0.1	0.20	0.00
4	0.27	NO	-	0.15	0.07	0.05
5	0.30	YES	PERM PAVEMENT	0.3	0.00	0.00
6	1.80	YES	DRY SWALE	0.65	0.65	0.50
7	0.20	YES	PERM. PAVEMENT	0.2	0.00	0.00
8	0.70	YES*	EXTENDED DETENTION	0.2	0.00	0.50
9	0.66	NO	-	0.05	0.46	0.15
TOTAL	5.3	-	-	1.95	2.13	1.25

NOTE: ASSUME 5 MINUTES FOR TIME OF CONCENTRATION FOR EACH WATERSHED. ASSUME ALL SOILS ARE "C."
*BIORETETNION IN DA 8 CAPTURES DRAINAGE FROM DA'S 1-7 AS WELL, THESE ADDITIONAL AREAS ARE NOT INCLUDED IN THE DA 8 AREA.



DEQ
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

APRIL 2014

SMALLTOWN, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

SITE PLANNING DIVISION

EXERCISE 5
T&L COMMERCIAL DEVELOPMENT
PROPOSED CONDITIONS

DEQ TRAINING CASE STUDY

SCALE 1"=40'

DESIGNED BY: K PROPST
DRAFTED BY: K PROPST
CHECKED BY: J SMITH

REVISIONS				
△#	DESCRIPTION	BY	APPROVED	DATE
	APPROVED BY SITE PLANNING DIVISION			

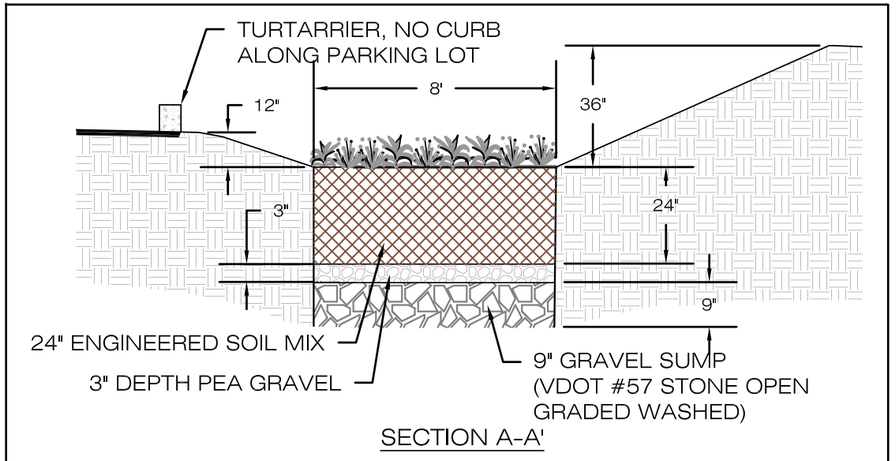
PROPOSED DRAINAGE AREA CHARACTERISTICS:
AREA = 1.9 ACRES
IMPERVIOUS ACREAGE = 0.65 ACRES
OPEN SPACE/ FOREST ACREAGE = 0.65 ACRES
MANAGED TURF ACREAGE = 0.50 ACRES
CURVE NUMBER: 81
TIME OF CONCENTRATION: 5 MINUTES
1 YR DISCHARGE = 2.33 CFS
2 YR DISCHARGE = 4.43 CFS
10 YR DISCHARGE = 9.13 CFS

PHOSPHOROUS REDUCTION CALCULATIONS:
LOAD TO BMP = 1.66 LBS
MASS LOADING EFFICIENCY = 76%
VOLUME TO BMP = 2642 C.F.
RUNOFF REDUCTION BY PRACTICE
=1,585 C.F
TOTAL LOAD REDUCTION BY PRACTICE
=1.26 LB/YR
TOTAL PHOSPHOROUS LOAD REMAINING
=0.40 LBS

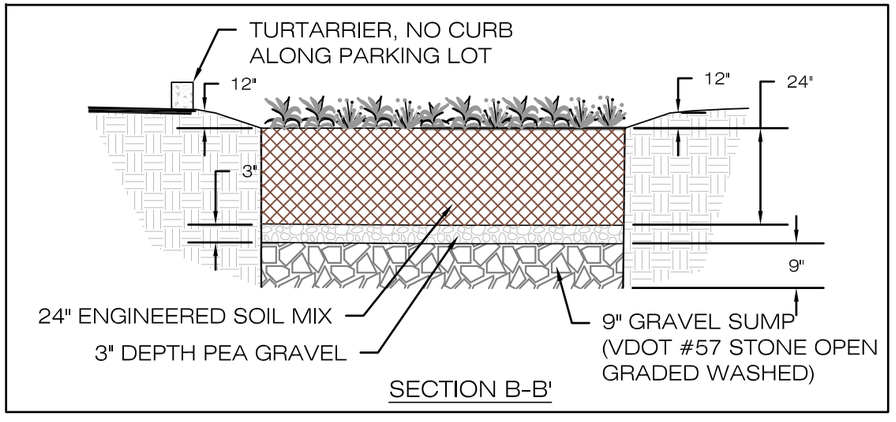
SIZING CALCULATIONS, DRY SWALE LEVEL 2:
POST DEVELOPMENT TREATMENT VOLUME REQUIRED
Tv=2,735 C.F.
SOIL MEDIA DEPTH = 24 IN
PEA GRAVEL = 3 IN
GRAVEL SUMP = 9 IN
STORAGE DEPTH = DEPTH x VOID RATIO
=(24X0.25)+(12X0.4) = 10.8 IN = 0.9 FT
DRY SWALE LEVEL 2 SURFACE AREA REQUIRED
=(1.1xTv)/ STORAGE DEPTH = 2,735/0.9 = 3,342 S.F.
SURFACE AREA PROVIDED = 4,782 S.F.
TREATMENT VOLUME PROVIDED = 4,303 C.F.

VELOCITY COMPUTATIONS:
CROSS-SECTION A-A' MODELED
SLOPE = 1.5%
DIMENSIONS:
SIDE SLOPES = 3:1, BOTTOM WIDTH = = 8'
DEPTH 10 YR = 0.42 FT
RH 10 YR = 0.37
SHEAR STRESS 10 YR = 0.35 LB/S.F.
VELOCITY 10 YR = 2.33 FT/S

VELOCITY AND SHEAR STRESSES MEET TURF AND VEGETATION ALLOWABLE VALUES



SECTION A-A'



SECTION B-B'

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

APRIL 2014

SMALLTOWN, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

SITE PLANNING DIVISION

EXERCISE 5
T&L COMMERCIAL DEVELOPMENT
DRY SWALE DESIGN

DEQ TRAINING CASE STUDY

SCALE 1"=40'
DESIGNED BY: K PROPST
DRAFTED BY: K PROPST
CHECKED BY: J SMITH

REVISIONS				
Δ#	DESCRIPTION	BY	APPROVED	DATE
	APPROVED BY SITE PLANNING DIVISION			

TOTAL MAXIMUM DAILY LOAD INFORMATION

In accordance with Parts II B.5, B.6, & B.7 of the *General VPDES Permit for Discharges of Stormwater from Construction Activities*, the SWPPP must:

1. Identify the impaired water(s) in the 2022 §305(b)/303(d) Water Quality Assessment Integrated Report for Benthic Macroinvertebrates Bioassessments, approved TMDL(s) for sediment or sediment-related parameter (i.e. total suspended solids or turbidity) or nutrients (i.e. nitrogen or phosphorus), pollutants of concern, and exceptional waters identified in 9VAC25-260-30.A.3.c; and
2. Provide clear direction that:
   a. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site;
   b. Nutrients shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events; and
   c. A modified inspection schedule shall be implemented in accordance with Part II G 2 a of the *General VPDES Permit for Discharges of Stormwater from Construction Activities.*
3. SWPPP requirements for discharges from construction activities to polychlorinated biphenyl (PCB) impaired waters, (i) identified as impaired in the 2022 305(b)/303(d) Water Quality Assessment Integrated Report or (ii) with an applicable TMDL wasteload allocation established prior to the term of the general permit for PCB. For construction activities that include the demolition of any structure of at least 10,000 square feet of floor space built or renovated before January 1, 1980, the operator shall:
   a. Identify impaired waters, approved TMDLs, and pollutant of concern in the SWPPP;
   b. Implement the approved erosion and sediment control plan in accordance with Part II B 2;
   c. Dispose of waste materials in compliance with applicable state, federal, and local requirements; and
   d. Implement a modified inspection schedule in accordance with Part II G 2 a.

Identification of the Construction-related Impaired Waters the Project Discharges Into

Waterbody discharging construction site	Location of site discharge point (Site description & Lat./Long.)	Pollutant of Concern/ Exceptional Water
Harper Creek	Pipe discharge from bioretention in south portion of site across Landry Ln. (*37.5452, -77.4422)*	Sediment/Nutrients

Identification of the Surface Waters discharging to conveyance systems within the Chesapeake Bay watershed

Watershed	Pollutants of Concern	Does the project discharge to the waterbody?
Chesapeake Bay	Phosphorus Nitrogen Sediment	X

IDENTIFICATION OF QUALIFIED PERSONNEL

In accordance with the *General VPDES Permit for Discharges of Stormwater from Construction Activities*, the individuals responsible for conducting on-site and off-site inspections must be identified. Individuals identified in this section of the SWPPP must be knowledgeable in the principles and practices of erosion and sediment and stormwater management controls, possess the skills to assess conditions at the construction site for the operator that could impact stormwater quality and quantity, and beginning July 1, 2025 shall hold an unexpired certification issued by either DEQ [Dual Inspector, Inspector for Erosion and Sediment Control and Stormwater Management, or Qualified Personnel), VDOT (Qualified Personnel Certificate), or EPA (Construction Inspections Training Course Certificate).

Print Name: Cammy Tohen

Company: T&L Development

Address: 1111 E Main St.

Phone #: 804-965-4903

Qualifications:

DEQ Certification # DCA0430

VDOT-QP Certification #_____

EPA Construction Certification #_____

Other:_____

Print Name: Mac Intyre

Company: T&L Development

Address: 1111 E Main St.

Phone #: 804-965-4903

Qualifications:

DEQ Certification # QP-001

VDOT-QP Certification #_____

EPA Construction Certification #_____

Other:_____

Duly Authorized Representative

In accordance with the *General VPDES Permit for Discharges of Stormwater from Construction Activities*, all reports required by this general permit, including SWPPPs, and other information requested by the board or the department shall be signed by a person described in Part III K 1 or by a duly authorized representative of that person. The individuals or positions duly authorized to sign inspection reports and/or amend this SWPPP must be identified here:

Print Name: Cammy Tohen

Title: Site Supervisor

Company: T&L Development

Phone #: 804-698-4171

I certify the individual or position named above has been duly authorized to sign inspection reports and/or amend or modify this SWPPP.

Operator Signature: Ken Harper Date: 9/1/2024

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Developed in compliance with:

General VPDES Permit for Discharges of Stormwater from Construction Activities (9VAC25-880)

Project Name: ____T&L Commercial Development_____

Permit number: VAR10#437_____

Under Part III K of the above referenced permit, any person signing a SWPPP document shall make the following statement:

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

OPERATOR

Name: _____Ken Harper_____

Signature: Ken Harper

Date: 8/20/24

Title:_____CEO_____ Company:_Smalltown Consultants__

POLLUTION PREVENTION PLAN INFORMATION

In accordance with Part II B.4 of the *General VPDES Permit for Discharges of Stormwater from Construction Activities*, the SWPPP must:

a. Identify potential pollutant-generating activities and pollutants expected to be exposed to stormwater;
b. Describe the location where the potential pollutant generating activity will occur;
c. Identify all authorized non-stormwater discharges that are or will be comingled with stormwater discharges from the construction activity, including any applicable support activity;
d. Identify the person responsible for implementing the pollution prevention practice(s) for each pollutant generating activity, if other than the person listed as the qualified personnel;
e. Describe pollution prevention procedures and practices that will be implemented to:
    1) Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks and other releases; and (ii) procedures for reporting leaks, spills, and other releases;
    2) Prevent the discharge of spilled or leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g., providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available);
    3) Prevent the discharge of soaps, detergents, solvents, and wash water from construction materials, including the cleanup of stucco, paint, form release oils, and curing compounds (e.g., providing (i) cover (e.g., plastic sheeting or temporary roofs) to prevent contact with stormwater; (ii) collection and proper disposal in a manner to contact with stormwater; and (iii) a similarly effective means designed to prevent discharge of these pollutants;
    4) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other types of washing (e.g., locating activities away from surface waters and stormwater

inlets or conveyance and directing wash waters to sediment basins/traps, using filtration devices such as filter bags or sand filters or using similarly effective controls);

5) Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin must be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes must be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes must be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters;
6) Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes, including (i) building products such as asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures; (ii) pesticides, herbicides, insecticides, fertilizers, and landscape materials; and (iii) construction and domestic wastes such as packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials;
7) Prevent discharges of fuels, oils, and other petroleum products, hazardous or toxic waste, and sanitary wastes; and
8) Address any other discharges from potential pollutant generating activity not addressed above, and
9) Minimize the exposure of waste materials to precipitation by closing or covering waste containers during precipitation events and at the end of the business day or implementing other similarly effective practices. Minimization of exposure is not required in cases where the exposure to precipitation will not result in a discharge of pollutants; and

f. Describe procedures for providing pollution prevention awareness of all applicable wastes, including any wash water, disposal practices, and applicable disposal locations of such wastes, to personnel in order to comply with the conditions of the GCP.

Table: Pollutant-Generating Activities, Potential Pollutants and Responsible Parties

Pollutant-Generating Activity/Pollutant(s) of Concern	**Location on Site** (or SWPPP site map)	**Responsible Party**	**Pollution Prevention Procedures/Practices**	**Responsible Contractor**
Fueling Operations/petroleum products	Site map page 1	Cammy Tohen	Spill kits located in all Fueling areas. Secondary containment berms used around all fuel storage tanks	T&L Development
Soaps, detergents, or solvents wash waters from/cleanup of stucco, paint, oils, or curing compounds	Site map page 1	Cammy Tohen	Cleanup areas located in staging area. Practices include cleanup containers for all wash waters	Briede Builders Inc.
Equipment and vehicle washing/sediment	Wheel wash at both CEs	Cammy Tohen	Vehicle wash water dewatered and filtered through filter bags	T&L Development
Concrete washout/wash water effluent	N/A	Cammy Tohen	Concrete wash water directed to leak-proof, lined washout pits	N/A
Construction material disposal/building product admixtures, landscape materials (pesticides, fertilizers, etc.), trash and building materials	Site map page 1	Cammy Tohen	Rolloff garbage bins located at staging and laydown area. Spill kits located in Fueling areas	Doug's Discount Rubbish Service
Portable toilets/Sanitary waste	Site map page 1	Cammy Tohen	2 portable toilets located in dedicated areas with available spill kits in adjacent Fueling areas	Shrews Sanitary Services (SSS)
Hazardous or toxic waste	N/A			
Additional activities:	N/A			

Table: Authorized Non-stormwater Discharges Anticipated from the Construction Activity or Support Activities

Authorized Non-stormwater Discharges	Check if applicable
Discharges from firefighting activities	___
Fire hydrant flushings	___
Waters used to wash vehicles or equipment where soaps, solvents, or detergents have not been used and the wash water has been filtered, settled, or similarly treated prior to discharge	_X_
Water used to control dust that has been filtered, settled, or similarly treated prior to discharge	_X_
Potable water sources, including uncontaminated waterline flushings	___
Routine external building wash down where soaps, solvents, or detergents have not been used and the wash water has been filtered, settled, or similarly treated prior to discharge	_X_
Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing); where soaps, solvents, or detergents have not been used; and where the wash water has been filtered, settled, or similarly treated prior to discharge	_X_
Uncontaminated air conditioning or compressor condensate	___
Uncontaminated ground water or spring water	___
Foundation or footing drains where flows are not contaminated with process materials such as solvents	___
Uncontaminated excavation dewatering, including dewatering of trenches and excavations that have been filtered, settled, or similarly treated prior to discharge	_X_
Landscape irrigation	_X_

In accordance with **Part II B 8 of the *General VPDES Permit for Discharges of Stormwater from Construction Activities (Construction General Permit or CGP)***, construction dewatering discharges to sediment impaired water or exceptional waters must be identified and turbidity of construction dewatering discharges measured by one of three benchmark options detailed below. Dewatering discharges of uncontaminated stormwater or groundwater from footers or foundations of a single-family detached residential structure are exempt from the requirements of this subdivision (8), provided that such discharges are not discharged directly to surface waters. For construction dewatering discharges to surface waters (i) identified as impaired in the 2022 §305(b)/303(d) Water Quality Assessment Integrated Report for Benthic Macroinvertebrates Bioassessments: (ii) with an applicable TMDL wasteload allocation established and approved prior to the term of this general permit for sediment or a sediment-related parameter (i.e. total suspended solids or turbidity), including all surface waters within the Chesapeake Bay Watershed; or (iii) identified in 9VAC20-260-30 A 3 c as an exceptional water, the operator shall undertake one of the following methods for controlling and documenting construction dewatering discharges:

Part II B 8:

A. Turbidity benchmark option 1:

(1) Identify the location of all construction dewatering discharges in the SWPPP;

(2) Select, install, implement, and maintain control measures at each dewatering location that minimize pollutants, including suspended solids, in construction dewatering discharges prior to discharging into a stormwater conveyance system or surface water; and

(3) Provide documentation in the SWPPP that:

(a) Sample frequency. At least one grab sample shall be collected from each construction dewatering discharge when the first discharge at that location occurs, daily thereafter until the dewatering discharge stops, and after any installation of new controls or routine maintenance activity of existing controls. An upstream grab sample shall be collected from the receiving stream;

(b) Sample timing. Grab samples of the construction dewatering discharge shall be collected during the first 15 minutes of the construction dewatering discharge and daily thereafter until the dewatering discharge stops. Upstream grab samples of the receiving stream shall be collected within 15 minutes of the corresponding construction dewatering discharge sample;

(c) Sample location. Grab samples shall be collected after the construction dewatering water has been filtered, settled, or similarly treated and prior to its discharge into a stormwater conveyance system or surface water;

(d) Test methods. Grab samples taken as required by this subdivision 8 shall be measured using a turbidity meter that reports results in nephelometric turbidity units (NTUs) or formazin turbidity units (FTUs), and a turbidity meter calibration verification shall be conducted prior to each day's use, consistent with manufacturer recommendations;

(e) Visual monitoring. All dewatering discharges shall be visually monitored for changes in the characterization of effluent discharge;

(f) Corrective action. If (i) any turbidity measurement of the construction dewatering discharge exceeds the upstream grab sample of the receiving stream by more than 50 NTUs/FTUs or (ii) visual monitoring indicates a change in the characterization of effluent discharge, corrective action shall be taken in accordance with Part II H 2 of the CGP; and

(g) Recordkeeping. Turbidity monitoring information (i.e., location, date, sample collection time, and turbidity measurement) and any necessary corrective actions taken shall be recorded in the SWPPP; or

B. Turbidity benchmark option 2:

(1) Identify the location of all construction dewatering discharges in the SWPPP;

(2) Select, install, implement, and maintain control measures at each dewatering location that minimize pollutants, including suspended solids, in construction dewatering discharges prior to discharging into a stormwater conveyance system or surface water; and

(3) Provide documentation in the SWPPP that:

(a) Sample frequency. At least one grab sample shall be collected from each construction dewatering discharge when the first discharge at that location occurs, daily thereafter until the dewatering discharge stops, and after any installation of new controls or routine maintenance activity of existing controls. Grab samples shall be tested to confirm a turbidity measurement of equal to or less than 150 NTUs/FTUs from the construction dewatering discharge;

(b) Sample timing. Grab samples of the construction dewatering discharge shall be collected during the first 15 minutes of the construction dewatering discharge and daily thereafter until the dewatering discharge stops;

(c) Sample location. Grab samples shall be collected after the construction dewatering water has been filtered, settled, or similarly treated and prior to its discharge into a stormwater conveyance system or surface water;

(d) Test methods. Grab samples taken as required by this subdivision 8 shall be measured using a turbidity meter that reports results in nephelometric turbidity units (NTUs) or formazin turbidity unit (FTUs), and [~~conduct~~] a turbidity meter calibration verification [shall be conducted] prior to each day's use, consistent with manufacturer recommendations;

(e) Visual monitoring. All dewatering discharges shall be visually monitored for changes in the characterization of effluent discharge;

(f) Corrective action. If (i) any turbidity measurement of the construction dewatering discharge exceeds 150 NTUs/FTUs or (ii) visual monitoring indicates a change in the characterization of effluent discharge, corrective action shall be taken in accordance with Part II H 2 of the CGP; and

(g) Recordkeeping. Turbidity monitoring information (i.e., location, date, sample collection time, and turbidity measurement) and any necessary corrective actions taken shall be recorded in the SWPPP; or

C. Turbidity benchmark option 3:

(1) Identify the location of all construction dewatering discharges in the SWPPP;

(2) Select, install, implement, and maintain control measures at each dewatering location that minimize pollutants, including suspended solids, in construction dewatering discharges prior to discharging into a stormwater conveyance system or surface water; and

(3) Provide documentation in the SWPPP that:

(a) Sample frequency. At least one grab sample shall be collected from each construction dewatering discharge when the first discharge at that location occurs, daily thereafter until the dewatering discharge stops, and after any installation of new controls or routine maintenance activity of existing controls. Grab samples shall be tested to confirm a turbidity measurement of equal to or less than 50 NTUs/FTUs, based on a weekly average, from the construction dewatering discharge;

(b) Sample timing. Grab samples of the construction dewatering discharge shall be collected during the first 15 minutes of the construction dewatering discharge and daily thereafter until the dewatering discharge stops:

(c) Sample location. Grab samples shall be collected after the construction dewatering water has been filtered, settled, or similarly treated and prior to its discharge into a stormwater conveyance system or surface water;

(d) Test methods. Grab samples taken as required by this subdivision 8 shall be measured using a turbidity meter that reports results in NTUs or FTUs, and a turbidity meter calibration verification shall be conducted prior to each day's use, consistent with manufacturer recommendations;

(e) Visual monitoring. All dewatering discharges shall be visually monitored for changes in the characterization of effluent discharge;

(f) Corrective action. If (i) the weekly average of the turbidity measurements of the construction dewatering discharge exceeds 50 NTUs/FTUs or (ii) visual monitoring indicates a change in the characterization of effluent discharge, corrective action shall be taken in accordance with Part II H 2 of the CGP. The weekly average is the sum of all turbidity samples taken during a monitoring week (starting on Monday and ending on Sunday) divided by the number of samples measures during that week; and

(g) Recordkeeping. Turbidity monitoring information (i.e., location, date, sample collection time, and turbidity measurement) and any necessary corrective actions taken shall be recorded in the SWPPP.

D. Request for alternative benchmark threshold:

(1) At any time prior to or during coverage under the CGP, a request may be submitted to the department to approve a benchmark that is higher than turbidity benchmark options 1, 2, and 3 if information is available demonstrating the higher number is the same as the receiving water's water quality standard for turbidity. To request approval of an alternate benchmark, the operator must submit the following to the department:

(a) The current turbidity water quality standard that applies to the receiving water; and

(b) Information on the natural or background turbidity level to determine the specific standard for the receiving water, including available data that can be used to establish the natural turbidity levels of the receiving water.

(2) The department will notify the operator of its decision on whether to approve the requested alternate benchmark within 30 days. Until the department approves an alternate benchmark, the operator is required to use the option 1, option 2, or option 3 turbidity benchmark and take any required corrective actions if an exceedance occurs.

Part II H. Corrective Actions:

1. Except as required in Part II H 2, the operator shall implement the corrective actions identified as a result of an inspection as soon as practicable but no later than five business days after discovery or a longer period as approved by the VESMP authority. If approval of a corrective action by a regulatory authority (e.g., VESMP authority, VESCP authority, or the department) is necessary, additional control measures shall be implemented to minimize pollutants in stormwater discharges until such approvals can be obtained. 2. When any turbidity measurement of the construction dewatering discharge exceeds the selected benchmark option or visual monitoring indicates a change in the characteristics of effluent discharge, as outlined in Part II B 8 of the CGP, the operator shall :

a. Immediately cease the construction dewatering discharge at the location that exceeds the turbidity benchmark or where visual monitoring indicates a change in the characterization of effluent discharge;

b. Determine whether the construction dewatering controls are operating effectively or need routine maintenance or if an additional or alternate control measure is necessary; and

c. Make any necessary adjustments, additions, repairs, or replacements to the construction dewatering controls.

Once these corrective action steps are completed and any necessary adjustments, additions, repairs, or replacements are made, the operator may resume its construction dewatering discharge and shall sample for turbidity within 15 minutes of the construction dewatering discharge commencing. No additional corrective action items are required beyond recording the results in the SWPPP.

3. The operator may be required to remove accumulated sediment deposits located outside of the construction site covered by this general permit as soon as practicable in order to minimize environmental impacts.

4. The operator shall notify the VESMP authority and the department as well as obtain all applicable federal, state, and local authorizations, approvals, and permits prior to the removal of sediments accumulated in surface waters, including wetlands.

Turbidity Benchmark Monitoring Data Table

Project Name: T&L Commercial Development	**Operator:** Ken Harper	**Permit (VAR10)#:** VAR10#437
Dewatering Activity (description and approximate location): Foundation dewatering – eastern part of project at building foundation	**Sample Location (description or outfall location):** Outfall 3 (east side of project)	
Turbidity Meter type (make and model): Foran T-100WL Portable White Light Meter	**Turbidity Benchmark Option (CGP #1, 2, or 3):** 2	

Sample Collection			**Turbidity Analysis**				
Name of Individual Collecting/Analyzing Grab Sample	**Date**	**Time**	**Turbidity Result**	**Sample Units: NTUs/FTUs**	**Meter Calibrated: Yes/No**	**Turbidity Limit Exceeded: Yes/No**	**Notes (including weather conditions)**
Mac Intyre	10/11/24	10:15am	37	NTU	Yes	No	Dewatering across vegetated area. Temp. 76F, light rain
Mac Intyre	10/12/24	8:30am	45	NTU	Yes	No	Temp. 71F, mostly cloudy
Mac Intyre	10/13/24	9:00am	41	NTU	Yes	No	Temp. 67F, clear

Turbidity Benchmark Monitoring Data Table

Project Name: T&L Commercial Development	**Operator:** Ken Harper	**Permit (VAR10)#:** VAR10#437
Dewatering Activity (description and approximate location): Sediment trap 2 dewatering – western side of project; ST 2 removal in progress	**Sample Location (description or outfall location):** Outfall 2 (west side of project)	
Turbidity Meter type (make and model): Foran T-100WL Portable White Light Meter	**Turbidity Benchmark Option (CGP #1, 2, or 3):** 2	

Sample Collection			**Turbidity Analysis**				
Name of Individual Collecting/Analyzing Grab Sample	**Date**	**Time**	**Turbidity Result**	**Sample Units: NTUs/FTUs**	**Meter Calibrated: Yes/No**	**Turbidity Limit Exceeded: Yes/No**	**Notes (including weather conditions)**
Mac Intyre	11/4/24	7:15am	84	NTU	Yes	No	Dewatering across vegetated area. Temp. 60F, moderate rain
Cammy Tohen	11/5/24	7:45am	115	NTU	Yes	No	Temp. 61F, overcast
Mac Intyre	11/6/24	10:00am	61	NTU	Yes	No	Temp. 66F, partly cloudy

Turbidity Benchmark Monitoring Data Table

Project Name: T&L Commercial Development	**Operator:** Ken Harper	**Permit (VAR10)#:** VAR10#437
Dewatering Activity (description and approximate location): Sediment trap 1 dewatering – western part of project; ST 1 removal in progress	**Sample Location (description or outfall location):** Harper Creek, downstream of site discharge point (Outfall 1)	
Turbidity Meter type (make and model): Foran T-100WL Portable White Light Meter	**Turbidity Benchmark Option (CGP #1, 2, or 3):** 2	

Sample Collection			**Turbidity Analysis**				
Name of Individual Collecting/Analyzing Grab Sample	**Date**	**Time**	**Turbidity Result**	**Sample Units: NTUs/FTUs**	**Meter Calibrated: Yes/No**	**Turbidity Limit Exceeded: Yes/No**	**Notes (including weather conditions)**
Mac Intyre	12/10/24	9:15am	97	NTU	Yes	No	Temp. 62F, clear
Cammy Tohen	12/11/24	7:00am	131	NTU	Yes	No	Temp. 48F, overcast
Cammy Tohen	12/12/24	8:30am	177	NTU	Yes	Yes	Corrective actions needed. Temp. 53F, partly cloudy
Mac Intyre	12/13/24	7:00am	111	NTU	Yes	No	Discharge back below threshold. Temp. 52F, clear

Qualified Personnel Inspection Report

Project: Industrial Park Design

Date: 10/31/24 Time of Inspection: 10:30am

Inspection Schedule:

Project discharges to impaired waters, surface waters with an applicable TMDL, or exceptional waters? (Section 5 of SWPPP)	Yes ☒	No ☐
If **No**, a *standard* inspection schedule will be conducted.	At least once every **5** business days ☐	At least once every **10** business days, or no later than 24 hours following a measurable storm event ☐
If **Yes**, a *modified* inspection schedule will be conducted.	At least once every **4** business days ☒	At least once every **5** business days, or no later than 24 hours following a measurable storm event ☐

Date and Rainfall amount of last measurable storm event (if applicable): N/A

Summarized findings of inspection:

Stabilization in the northeast section maturing well. Added more seed and straw to south sediment trap slopes where it was a little bare. Repaired sections of silt fence as needed, mostly in the southwest area of the site.

Locations of prohibited discharges:

One prohibited discharge discovered: An excavator on the east side of the site had a disconnected hydraulic line during site work. Fuel from the machine got onto the ground before the leak was discovered. Approximately 1-2 gallons of fuel were leaked. Spill kits were used to absorb the fuel on the ground then disposed of. The equipment was repaired so the leak shouldn't happen again.

Prohibited discharge information identified in Amendments, Modifications, and Updates section of SWPPP?

Yes	☒	No	☐	N/A	☐

Type and location of control measures that failed, proved inadequate or inappropriate for a particular location, or require maintenance at the time of inspection:

Type of control measure	Location	Issue with measure
Silt fence	Southwest perimeter	Sections sagging from stakes
Sediment trap	South near CE	Bare spots on slopes

Locations where any evidence the approved ESC plan was not properly implemented at the time of the inspection:

Location(s) where any additional control measure(s) needed:

Location	Additional Control Measure

List of Corrective Actions required as a result of this inspection, including any changes to the SWPPP, -and/or- Corrective Actions from a previous inspection that have not been implemented:

Silt fence sections repaired where needed. *Additional seed and straw applied to south ST.* *Discharge cleaned up and equipment repaired. Also, noted in AMUs.* *No items from a previous inspection to be corrected.*

This inspection identified ***No Incidents of Non-compliance***:

Yes ☐	No ☒

- If *Yes*, the Operator (or Duly Authorized Representative) signature below certifies this Inspection Report and the associated construction activity is in compliance with the SWPPP and the Construction General Permit.

Qualified Person:

Print: *Mac Intyre* Signature: *Mac Intyre*

Operator, or Delegated Authority:

Print: Cammy Tohen Signature: Cammy Tohen

Qualified Personnel Inspection Report

Project: Industrial Park Design

Date: 11/7/24 Time of Inspection: 9:15am

Inspection Schedule:

Project discharges to impaired waters, surface waters with an applicable TMDL, or exceptional waters? (Section 5 of SWPPP)	Yes ☒	No ☐
If **No**, a *standard* inspection schedule will be conducted.	At least once every **5** business days ☐	At least once every **10** business days, or no later than 24 hours following a measurable storm event ☐
If **Yes**, a *modified* inspection schedule will be conducted.	At least once every **4** business days ☒	At least once every **5** business days, or no later than 24 hours following a measurable storm event ☐

Date and Rainfall amount of last measurable storm event (if applicable): N/A

Summarized findings of inspection:

Concrete washout moved beside entrance. Equipment moved to east side of site to begin dry swale excavation. Western sediment trap being removed along with diversion dike. No issues observed during the inspection.

Locations of prohibited discharges:

No prohibited discharges observed.

Prohibited discharge information identified in Amendments, Modifications, and Updates section of SWPPP?

Yes	☐	No	☐	N/A	☒

Type and location of control measures that failed, proved inadequate or inappropriate for a particular location, or require maintenance at the time of inspection:

Type of control measure	Location	Issue with measure
N/A		

Locations where any evidence the approved ESC plan was not properly implemented at the time of the inspection:

ESC plan being followed

Location(s) where any additional control measure(s) needed:

Location	Additional Control Measure
N/A	

List of Corrective Actions required as a result of this inspection, including any changes to the SWPPP, -and/or- Corrective Actions from a previous inspection that have not been implemented:

No corrective action items on report. No changes to SWPPP. Previous corrective actions from 10/31/24 have been addressed and noted in the Inspections/Corrective Actions Log.

This inspection identified ***No Incidents of Non-compliance***:

Yes ☐	No ☒

- If *Yes*, the Operator (or Duly Authorized Representative) signature below certifies this Inspection Report and the associated construction activity is in compliance with the SWPPP and the Construction General Permit.

Qualified Person:

Print: Mac Intyre Signature: Mac Intyre

Operator, or Delegated Authority:

Print: Mac Intyre Signature: Mac Intyre

Qualified Personnel Inspection Report

Project: Industrial Park Design

Date: 11/13/24 Time of Inspection: 1:00pm

Inspection Schedule:

Project discharges to impaired waters, surface waters with an applicable TMDL, or exceptional waters? (Section 5 of SWPPP)	Yes ☒	No ☐
If **No**, a *standard* inspection schedule will be conducted.	At least once every **5** business days ☐	At least once every **10** business days, or no later than 24 hours following a measurable storm event ☐
If **Yes**, a *modified* inspection schedule will be conducted.	At least once every **4** business days ☒	At least once every **5** business days, or no later than 24 hours following a measurable storm event ☐

Date and Rainfall amount of last measurable storm event (if applicable): _____

Summarized findings of inspection:

Silt fence at eastern perimeter down from recent rainfall. Western sediment trap area stabilization maturing well but slowly. More seed and straw applied to the area. Silt fence in this same area down from rainfall. Bioretention excavation progressing, with erosion controls being installed as sections are completed. Small stockpile from excavation eroded the slopes into the adjacent ST #1. Some mud tracking onto the paved road from CE due to recent rain event. All storm sewer installed and areas backfilled/stabilized.

Locations of prohibited discharges:

No prohibited discharges observed on inspection.

Prohibited discharge information identified in Amendments, Modifications, and Updates section of SWPPP?

Yes	No	N/A
☐	☐	☒

Type and location of control measures that failed, proved inadequate or inappropriate for a particular location, or require maintenance at the time of inspection:

Type of control measure	Location	Issue with measure
Silt fence	Eastern perimeter (near dry swale), and western perimeter.	Down from rainfall
Sediment trap	Remaining ST at the south end of site.	Slope erosion
Construction entrance	South west section of site.	Mud tracking onto paved road.

Locations where any evidence the approved ESC plan was not properly implemented at the time of the inspection:

Silt fence not being installed around stormwater BMPs, but this was corrected. Now completed sections are getting all erosion controls installed as they are done.

Location(s) where any additional control measure(s) needed:

Location	Additional Control Measure
Western ST and DD removal areas.	Added more seed and straw.

List of Corrective Actions required as a result of this inspection, including any changes to the SWPPP, -and/or- Corrective Actions from a previous inspection that have not been implemented:

Silt fence sections repaired where needed along eastern and western perimeter. *Additional seed and straw applied to western ST and DD area.* *Erosion repaired on ST slopes and areas stabilized.* *Mud tracking from CE cleaned with street sweeper.*

This inspection identified ***No Incidents of Non-compliance***:

Yes ☐	No ☒

- If *Yes*, the Operator (or Duly Authorized Representative) signature below certifies this Inspection Report and the associated construction activity is in compliance with the SWPPP and the Construction General Permit.

Qualified Person:

Print: Mac Intyre Signature: Mac Intyre

Operator, or Delegated Authority:

Print: Cammy Tohen Signature: Cammy Tohen

Inspections/Corrective Action Log

Inspection Date	Corrective Actions Noted (*Y/N*)	Corrective Action Item	Completed Date
10/31/24 (*Thursday*)	Yes	Silt fence sections repaired where needed.	10/31/24
10/31/24	Yes	Bare slopes on big sediment trap. Additional seed and straw applied.	11/2/24
10/31/24	Yes	Prohibited discharge from an excavator hydraulic line break. The line was repaired, the spill was cleaned up with onsite spill kit. DEQ notified within 24 hours and report was sent to DEQ and county stormwater authority within 5 days.	11/9/24
11/7/24 (*Thursday*)	No	No corrective actions items noted on report.	N/A

11/13/24 (Wednesday)	Yes	Silt fence down along eastern perimeter, near dry swale excavation. Sections repaired as needed.	11/14/24
11/13/24	Yes	Erosion from small bioretention stockpile down the slope of the sediment trap. Sediment removed from ST, rills repaired and sections stabilized with seed and matting.	11/21/24
11/13/24	Yes	Mud tracking from CE onto the road. Mud removed from the road using a street sweeper.	11/14/24
11/13/24	Yes	Silt fence down along western perimeter prior to full area stabilization. Sections repaired along with added stabilization.	11/14/24

Stormwater Pollution Prevention Plan

Amendments, Modifications and Updates

In accordance with Part II C of the 2024 *General VPDES Permit for Discharges of Stormwater from Construction Activities*:

1. The operator or their designee shall amend the SWPPP whenever there is a change in the design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants to surface waters and that has not been previously addressed in the SWPPP.

2. The SWPPP must be amended if, during inspections or investigations by the operator's qualified personnel, or by local, state, or federal officials, it is determined that the existing control measures are ineffective in minimizing pollutants in discharges from the construction activity. Revisions to the SWPPP shall include additional or modified control measures designed and implemented to correct problems identified. If approval by the VESCP authority, VESMP authority, or department is necessary for the control measure, revisions to the SWPPP shall be completed no later than five business days following approval. Implementation of these additional of modified control measures must be accomplished as described in Part II H.

3. The SWPPP must clearly identify the contractor(s) that will implement and maintain each control measure identified in the SWPPP. The SWPPP shall be amended to identify any new contractor that will implement and maintain a control measure.

4. The operator or their designee shall update the SWPPP no later than five business days following any modification to its implementation. All modifications or updates to the SWPPP shall be noted and shall include the following items;

a. A record of dates when:

(1) Major grading activities occur;

(2) Construction activities temporarily or permanently cease on a portion of the construction site; and

(3) Stabilization measures are initiated.

b. Documentation of replaced or modified controls where periodic inspections or other information have indicated that the controls have been used inappropriately or incorrectly and where modified as soon as possible;

c. Areas that have reached final stabilization and where no further SWPPP inspection requirements apply;

d. All properties that are no longer under the legal control of the operator and the dates on which the operator no longer had legal control over each property;

e. The date of any prohibited discharges, the discharge volume released, and what actions were taken to minimize the impact of the release;

f. Measures taken to prevent the reoccurrence of any prohibited discharge; and

g. Measures taken to address any evidence identified as a result of an inspection.

5. Amendments, modifications, or updates to the SWPPP shall be signed in accordance with Part III K 2 and shall include the required certification in accordance with Part III K 4 of the *General VPDES Permit for Discharges of Stormwater from Construction Activities.*

SWPPP AMENDMENT, MODIFICATION AND UPDATE LOG

Date	Description of Amendment, Modification or Update	Responsible Contractor
9/2/24	Phase I clearing and grading began. Silt fence installation following closely.	Cammy Tohen
9/6/24	Sediment traps and diversion installed, and stabilization applied.	Cammy Tohen
9/10/24	Construction entrance moved to south corner of site. Approval by VESMP Authority 9/9/24. - *Ms. Authority*	Cammy Tohen
9/18/24	Rough grading operations at the north side of project began.	Cammy Tohen
9/20/24	Prohibited discharge; sediment discharge to off-site area during soil stockpile transportation on 9/19/24. DEQ notified and sediment cleaned per DEQ instruction. Written report sent to DEQ and VESMP.	Cammy Tohen
9/23/24	Storm sewer installation with inlet protection applied to all inlets at grade.	Cammy Tohen
9/30/24	Concrete washout pit installed prior to building foundation pour.	Cammy Tohen
10/1/24	Prohibited discharge; concrete washout outside of leak-proof container on 9/30/24. Concrete washout area repaired and all future washout operations to be done in washout area.	Cammy Tohen
Ken Harper		
Operator (or Duly Authorized Representative) Signature		

Date	Description of Amendment, Modification or Update	Responsible Contractor
10/3/24	Silt fence in southwest corner not containing runoff on-site on 9/27/24. Wire-backed SF installed as a replacement. Control specification added to the approved ESC plan. Approval by VESMP Authority 10/1/24. - *Ms. Authority*	Cammy Tohen
10/20/24	No construction activity planned in northeast corner until building pad is at final grade and dry swale installation can begin. Area temporarily stabilized until work in that area starts again. 10/18/24.	Cammy Tohen
11/1/24	Prohibited discharge: hydraulic line on excavator disconnected and fuel got onto the ground. Spill kits were used to clean area and the line was repaired.	Cammy Tohen
11/7/24	Dry swale excavation started. Sediment trap and diversion dike on west side of site removed with locality approval. Approval by VESMP Authority 10/1/24. - *Ms. Authority*	Cammy Tohen
11/11/24	Final storm pipes sections excavated and installed. Parking lot completed. Bioretention excavation started.	Cammy Tohen
11/19/24	Dry swale completed and area finally stabilized. Area protected with additional SF.	Cammy Tohen
11/28/24	Bioretention completed, stabilized, and area protected with SF. CWO removed.	Cammy Tohen
12/15/24	Sediment trap in south section no longer needed. Removed and area graded and final stabilization applied with locality approval. Approval by VESMP Authority 12/12/24. - *Ms. Authority*	Cammy Tohen
12/22/24	Site work complete. All pollution prevention measures removed, and final stabilization applied to remainder of site.	Cammy Tohen
Ken Harper		
Operator (or Duly Authorized Representative) Signature		