

TEMPORARY SEDIMENT TRAP DATA					(Ho)		(H)	BOTTOM DIMS.								
STRUCTURE (ST)	DRAINAGE AREA (ACRES)	DRY/WET STORAGE (CY)		WEIR LENGTH (FT.)	WEIR HEIGHT (FT.)	EMBANKMENT WIDTH (FT.)	BERM HEIGHT (FT.)	TRAP WIDTH (FT.)	TRAP LENGTH (FT.)	TRAP DEPTH (FT.)	BOTTOM TRAP INV. ELEV.	EXCAVATED WET DEPTH	OUTLET STONE BASE ELEV.	DRY DEPTH	STONE CREST ELEV.	BERM EMBANK. ELEV.
		REQ'D	DESIGN													
A	1.40	94/94	96/96	10	1.3	2.5	2.3	22	59	2.3	1184.0	2	1186.0	1.3	1187.3	1188.3

FIELD REVISION #1 AS OUTLINED (7/12/18):
1. ADDED BORROW AREA.



Job # 17-0149-03
Date: 12-Jul-18
By: JPA

Roanoke County - ESC Cost Estimate (Borrow Area)

Item	Unit	Unit Price	Price
Construction Entrance	1 EA	\$1,200.00	\$1,200.00
Silt Fence	660 LF	\$4.00	\$2,640.00
Wire Backed Silt Fence	LF	\$6.00	\$0.00
Inlet Protection	EA	\$150.00	\$0.00
Temporary Diversion Dike	530 LF	\$5.00	\$2,650.00
Temporary Fill Diversion	LF	\$5.00	\$0.00
Sediment Trap	1 EA	\$1,500.00	\$1,500.00
Check Dam	EA	\$100.00	\$0.00
Permanent Seeding	74000 SF	\$0.05	\$3,700.00
Temporary Seeding	74000 SF	\$0.04	\$2,960.00
Blanket Matting	SF	\$0.25	\$0.00
Construction Road Stabilization	SF	\$0.35	\$0.00
Outlet Protection	EA	\$250.00	\$0.00
Sediment Basin	EA	\$5,000.00	\$0.00
Culvert Inlet Protection	EA	\$400.00	\$0.00
Right of Way Diversion	LF	\$10.00	\$0.00
Temporary Slope Drain	LF	\$15.00	\$0.00
Level Spreader	EA	\$150.00	\$0.00
Topsoil	CY	\$12.50	\$0.00
Temporary Stream Crossing	EA	\$1,500.00	\$0.00
Tree Protection	EA	\$100.00	\$0.00
Total			\$14,650.00
10% Contingency			\$1,465.00
Total ESC Surety Amount			\$16,115.00

GENERAL GRADING NOTES:

- THE CONTRACTOR SHALL REVIEW THE EROSION & SEDIMENT CONTROL NARRATIVE FOR PHASING OF EROSION & SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL COMPLY WITH LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF THE SITE. REFER TO THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK FOR DETAILS AND SPECIFICATIONS OF THOSE EROSION CONTROL ITEMS FOUND ON THESE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE ALL GRADING, GENERAL EXCAVATION, AND FINISH GRADING AS INDICATED ON THE DRAWINGS. WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES.
- A DEQ VSMP PERMIT IS REQUIRED FOR THIS PROJECT. A COPY OF THE DEQ PERMIT, STORMWATER POLLUTION PREVENTION PLAN, AND MAINTENANCE LOGS SHALL BE KEPT ON SITE AND AVAILABLE FOR REVIEW AS REQUESTED.
- ALL EARTH SLOPES AND DENUDED AREAS SHALL BE SEEDED AND MULCHED AS REQUIRED FOR STABILIZATION. 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. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

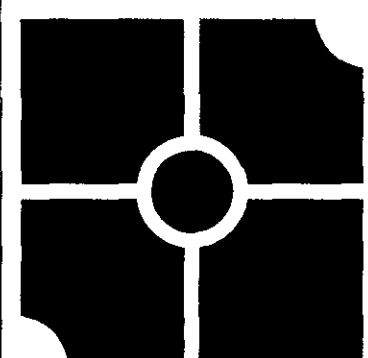
EROSION AND SEDIMENT CONTROL MEASURES:

PROVIDE THE FOLLOWING:

- CE CONSTRUCTION ENTRANCE MEETING VA ESCH STD. & SPEC. 3.02
- SF SILT FENCE MEETING VA ESCH STD. & SPEC. 3.05
- DD DIVERSION DIKE MEETING VA ESCH STD. & SPEC. 3.09
- TS SEDIMENT TRAP MEETING VA ESCH STD. & SPEC. 3.13
- TO TOPSOILING MEETING VA ESCH STD. & SPEC. 3.30
- TS TEMPORARY SEEDING MEETING VA ESCH STD. & SPEC. 3.31
- PS PERMANENT SEEDING MEETING VA ESCH STD. & SPEC. 3.32
- MU MULCHING MEETING VA ESCH STD. & SPEC. 3.35
- BM SOIL STABILIZING BLANKETS MEETING VA ESCH STD. & SPEC. 3.36
- DC DUST CONTROL MEETING VA ESCH STD. & SPEC. 3.39

BORROW AREA PHASE II EROSION AND SEDIMENT CONTROL MEASURES / CONSTRUCTION SEQUENCE:

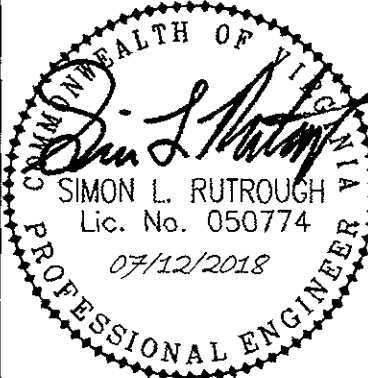
- CONSTRUCTION WILL BE SEQUENCED TO INSTALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DEMOLITION.
- CONTRACTOR SHALL VERIFY/INSTALL CONSTRUCTION ENTRANCE AS SHOWN ON PLANS. CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE PER VA ESCH STD. & SPEC. 3.02.
 - AFTER THE INITIAL MEASURES ARE INSTALLED, THE CONTRACTOR MAY BEGIN GRADING.
 - CONTRACTOR SHALL MAINTAIN THE CLEARED ACCESS ROAD AS NECESSARY FOR TRUCK TRAFFIC AND TO LIMIT EROSION/SEDIMENT DISCHARGE. CONSTRUCTION ROAD STABILIZATION (CRS) MAY BE USED AS NECESSARY. IF CONSTRUCTION ROAD STABILIZATION (CRS) IS UTILIZED IT SHALL BE REMOVED AT THE END OF THE PROJECT. AT THE END OF THE PROJECT THE CLEARED ACCESS PATH SHALL BE RETURNED TO EXISTING GRADE AND SEEDED.
 - TOPSOIL STOCKPILING IS ANTICIPATED FOR THIS PROJECT AND IS SHOWN. IF ADDITIONAL TOPSOIL AREAS ARE REQUIRED, THEN THE SUITABLE LOCATIONS ARE TO BE DETERMINED BY THE CONTRACTOR. SILT FENCE SHALL BE PLACED AROUND THE PERIMETER OF THE STOCKPILE. TEMPORARY SEEDING MEASURES APPLY TO STOCKPILES. STOCKPILE SHALL BE WITHIN DELINEATED LIMITS OF DISTURBANCE.
 - THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AROUND THE SITE. ANY PERIMETER EROSION CONTROL MEASURES THAT ARE DAMAGED SHALL BE REPAIRED TO CONTROL SEDIMENT LADEN RUNOFF FROM ENTERING ADJACENT PROPERTIES AND/OR STREAMS AND SWALES.
 - ONCE THE SITE HAS BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY BE REMOVED AND THOSE AREAS BROUGHT TO FINAL GRADE AND STABILIZED. THE CONTRACTOR SHALL COORDINATE WITH LOCAL AUTHORITY PRIOR TO REMOVING THE EROSION AND SEDIMENT CONTROL MEASURES. ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. ALL ESC MEASURES TO BE ALTERED OR REMOVED REQUIRE LOCAL AUTHORITY APPROVAL.
 - THE SILT FENCE AND CULVERT INLET PROTECTION SHALL BE REMOVED FROM THE PROJECT ONCE ALL DISTURBED AREAS ARE STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED. THE USE OF A FILTER DEVICE SHALL BE USED TO DEWATER SEDIMENT LADEN WATER.



parker
DESIGN GROUP

2122 Carolina Ave. SW
Roanoke, VA 24014
Ph: 540-387-1153
Fax: 540-389-5767
1915-B W. Cary Street
Richmond, VA 23220
Phone: 804-358-2947
Fax: 804-359-9645
www.parkerdg.com

This document is the property of Parker Design Group (PDG) and may not be reproduced or used without the express permission of PDG. Any reuse of these documents without authorization of PDG will be at the sole risk of the individual or entity utilizing said documents.



**Warehouse Expansion
for Blue Ridge Beverage**
4446 Barley Drive
Roanoke County, Virginia

REVISIONS:

Address 1st Review Comments
12 February 2018
Field Revision #1: Borrow Site
02 July 2018
Address County Comments to FR#1
12 July 2018

DESIGNED BY: JLK

DRAWN BY: JLK

CHECKED BY: SLR

DATE:
11 December 2017

SHEET TITLE:
BORROW SITE
GRADING & ESC

SCALE:
1" = 40'

SHEET NO.

C12