

# EROSION CONTROL & MAINTENANCE PLAN NOTES

1. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STONE, PAVING AND/OR PERENNIAL VEGETATION THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. QUALIFIED RESPONSIBLE LAND DISTURBER SHALL INSPECT POLLUTION CONTROL MEASURES ONCE EACH BUSINESS DAY. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR DISCONTINUED. REPAIRS TO POLLUTION CONTROL MEASURES SHALL BE INSTALLED WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE SHALL REQUIRE INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION AREA.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY ANY CODE ENFORCEMENT AGENCY TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. AREAS TO BE TYPED TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ADJACENT AREAS. PUBLIC RIGHTS-OF-WAY, ADJACENT PRIVATE PROPERTY AND IMPROVED MATERIAL (ROADPARKING AREA SURFACE) IS ERODED OR OTHERWISE DAMAGED, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER.
6. REFER TO THE DETAILS FOR SILT FENCE CONSTRUCTION.
7. ALL SLOPES WHICH EXCEED 3:1 (H:V) SHALL UTILIZE CONTECH OR EQUIVALENT EROSION CONTROL MATS. PERMANENT MATS CS5 OR PROVIDED EQUAL MATS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION AND STANDARDS. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER.

# STAGE OF CONSTRUCTION NOTES

- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
1. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS.
  2. PRIOR TO ANY EARTH DISTURBANCE, CONTRACTOR TO CONTACT THE COUNTY AND DEQ TO SCHEDULE A PRE-CONSTRUCTION MEETING.
  3. CONTRACTOR SHALL CONTACT JURISDICTION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
  4. CONTRACTOR SHALL STAKE AND FLAG LIMITS OF CLEARING.
  5. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN).
  6. INSTALL PERIMETER EROSION CONTROL BARRIERS (SILT FENCE, SAFETY FENCE, AND TREE PROTECTION) (AS SHOWN). CONTRACTOR TO REMOVE TREES ONLY NECESSARY FOR INSTALLATION OF PERIMETER SEDIMENT CONTROLS.
  7. ONCE PERIMETER CONTROLS ARE IN PLACE, INSTALL PHASE I BERM ALONG EASTERN SITE FRONTAGE THAT IS TO BE BROUGHT UP TO PHASE I GRADES AS SHOWN.
  8. AFTER PHASE I BERM IS CONSTRUCTED AND STABILIZED, BEGIN CONSTRUCTION OF THE TEMPORARY SEDIMENT TRAP ST-1. SEDIMENT TRAP EMBANKMENTS SHALL RAISE WITH SITE ELEVATION UNTIL SITE REACHES FINAL GRADES. CONTRACTOR TO APPLY SOIL STABILIZATION BLANKETS AS NECESSARY TO SEDIMENT TRAP TO MINIMIZE EROSION.
  9. INSTALL UPSLOPE CLEANWATER DIVERSION DIKES AND SOIL STABILIZATION BLANKETS.
  10. AS SITE IS RAISED TO SUBGRADE ELEVATIONS, CONTRACTOR TO TAKE SPECIAL CARE TO PUMP POTENTIAL LOCATIONS FOR PONDING AS NEEDED. SEE PHASE I EROSION CONTROL PLAN FOR LOCATIONS.
  11. AS SITE IS RAISED TO SUBGRADE ELEVATIONS, CONTRACTOR TO UNIFORMLY RAISE SEDIMENT TRAP ST-1 STORAGE WITH SITE GRADES UNTIL SUBGRADE ELEVATIONS ARE REACHED.
  12. CONTRACTOR TO OBTAIN APPROVAL FROM COUNTY INSPECTOR OF PHASE I MEASURES PRIOR TO PROCEEDING.

- PHASE II - IMPORTANT: GC TO COMPLETE ALL STEPS IDENTIFIED IN PHASE I PRIOR TO BEGINNING WORK IN PHASE II.
1. ONCE ALL EAS MEASURES ARE IN PLACE, CONTRACTOR SHALL BEGIN TO GRADE THE SITE. PREPARING SUBGRADES AND MAKE ANY NECESSARY SOIL IMPROVEMENTS.
  2. ONCE SITE HAS BEEN GRADED TO SUBGRADE ELEVATIONS, CONTRACTOR TO START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
  3. TEMPORARILY STABILIZE THROUGHOUT CONSTRUCTION AND IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY. ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 7 DAYS OR MORE.
  4. AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED IMMEDIATELY AS THEY ARE BROUGHT TO FINAL GRADE.
  5. INSTALL UTILITIES, UNDERDRAINS, CURBS AND GUTTERS. CONTRACTOR TO INSTALL INLET, CULVERT AND OUTLET PROTECTION AS UTILITIES, UNDERDRAINS, CURBS AND GUTTERS ARE INSTALLED.
  6. ONCE A MAJORITY OF THE SITE HAS BEEN STABILIZED OR HAS STONE SUBBASE, CONTRACTOR TO REMOVE SEDIMENT TRAP AND BEGIN ROADWAY WIDENING. CONTRACTOR TO CONTACT VDOT INSPECTOR PRIOR TO STARTING ROADWAY WIDENING.
  7. PREPARE SITE FOR PAVING.
  8. PAVE SITE IN NECESSARY AREAS.
  9. INSTALL LANDSCAPE PLANTINGS IN ACCORDANCE WITH THE LANDSCAPE PLAN. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS, IF NECESSARY.
  10. ONCE SWM FACILITY IS CONSTRUCTED, THE ENTIRE STORM SYSTEM SHALL BE FLUSHED. CONTRACTOR TO REMOVE ANY MATERIAL FROM SYSTEM.
  11. NOTICE OF TERMINATION PACKAGE TO BE PREPARED AND SUBMITTED TO DEQ PRIOR TO A FINAL SITE INSPECTION.
  12. THE CONTRACTOR SHALL CONTACT SHENANDOAH COUNTY AND DEQ FOR A FINAL SITE INSPECTION CONFIRMING THAT THE SITE HAS BEEN FULLY STABILIZED AND ALL CONSTRUCTION HAS BEEN COMPLETED. THEN:
    - A. WITHIN 30 DAYS REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
    - B. REMOVE ALL TEMPORARY CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS AND DEBRIS FROM THE SITE.
    - C. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY MEASURES.
  13. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR SPECIFIC CONSTRUCTION RECOMMENDATIONS.

# CONSTRUCTION EGRESS NOTES

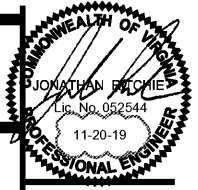
1. CONSTRUCTION EGRESS SHALL BE 12" MINIMUM WIDTH AND 75" MINIMUM LENGTH AND 6" MIN THICKNESS OF STONE (1.5"-3.5") COARSE AGGREGATE WITH GEOTEXTILE UNDERLINER. REFER TO CITY OR STATE FOR ANY ADDITIONAL REQUIREMENTS.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
3. WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN LOCATED PER CITY OR STATE REQUIREMENTS.

# PLAN REFERENCES

- REFER TO EROSION CONTROL DETAILS FOR ADDITIONAL EROSION NOTES & DETAILS.
- THIS PLAN TO BE UTILIZED FOR EROSION PURPOSES ONLY.

**BOHLER ENGINEERING**  
 28 BLACKWELL PARK LANE, SUITE 201 WARRENTON, VA 22186  
 PHONE: (540) 548-4500 FAX: (540) 548-0321

PROJECT No. V183204 SCALE: 1"=30'  
 DRAWN BY / CHECKED BY: DSH/JOR CAD I.D. SS2



**CRAIG A. SCHNEIDER, AIA**  
 ARCHITECT  
 1736 East Sunshine, Suite 417  
 Springfield, Missouri 65804  
 417.862.4558  
 Fax: 417.862.3265  
 e-mail: architect@estertyschneider.com

PROJECT:  
**NEW O'REILLY AUTO PARTS STORE**  
 U.S. HIGHWAY 11  
 STRASBURG, VA  
**EROSION CONTROL PLAN**

**O'Reilly AUTO PARTS**  
 CORPORATE OFFICES  
 233 SOUTH PATTERSON  
 SPRINGFIELD, MISSOURI 65802  
 (417) 862-2674 TELEPHONE

COMM # 4253  
 DATE: 11-2-18  
 REVISION DATE: 3-8-19  
 6-20-19  
 9-27-19  
 11-20-19

**C3.1**



**2 E&S CONTROL PLAN - PHASE I**  
 C3.1

**2 E&S CONTROL PLAN - PHASE II**  
 C3.1 SCALE: 1" = 30'

### VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES

NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF	[Symbol]	3.18	OUTLET PROTECTION	OP	[Symbol]
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	[Symbol]	3.20	ROCK CHECK DAMS	CD	[Symbol]
3.05	SILT FENCE	SF	[Symbol]	3.31	TEMPORARY SEEDING	TS	[Symbol]
3.07	STORM DRAIN INLET PROTECTION	IP	[Symbol]	3.32	PERMANENT SEEDING	PS	[Symbol]
3.08	CULVERT INLET PROTECTION	CIP	[Symbol]	3.35	MULCHING	MU	[Symbol]
3.09	TEMPORARY DIVERSION DIKE	DD	[Symbol]	3.38	SOIL STABILIZATION BLANKETS AND MATTING	BM	[Symbol]
3.13	TEMPORARY SEDIMENT TRAP	ST	[Symbol]	3.38	TREE PRESERVATION AND PROTECTION	TP	[Symbol]

**SOILS LEGEND**

XxX	SOILS TYPE
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**SOILS TABLE**

SYMBOL	SOIL NAME	SLOPES	K-FACTOR
9C	CARBO-ENDCAV COMPLEX	2 - 15%	5.9
49	PITS AND DUMPS	2 - 15%	D



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