**ONLY INSTALL AS SHOWN ON SHEET IF WETLAND PERMITS HAVE NOT BEEN OBTAINED BY TIME OF DISTURBANCE

EROSION CONTROL SEQUENCE OF CONSTRUCTION - PHASE II

1. THE PHASE I EROSION CONTROL MEASURES MUST REMAIN IN PLACE AND OPERATIONAL THROUGHOUT PHASE II.
2. BEGIN ROUGH GRADING OPERATIONS. MAINTAIN DIVERSIONS AND DRAINAGE PATTERNS TO TRAPS AND BASINS.
3. TEMPORARY SEED AND STABILIZE ANY AREAS LEFT DENUDED DURING CONSTRUCTION. PROVIDE SLOPE STABILIZATION FOR ALL FILL SLOPES. ANY SLOPES STEEPER THAN 3:1 ARE TO BE HYDROSEEDED WITH SLOPEMASTER OR APPROVED ALTERNATE.
4. BEGIN STORM SEWER CONSTRUCTION. COORDINATE UTILITY CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANIES AS NEEDED DURING CONSTRUCTION.
5. ADD INLET PROTECTION MEASURES ONTO THE STORM SEWER STRUCTURES AS THEY ARE INSTALLED.
6. COMPLETE GRADING OPERATIONS, STORM SEWER INSTALLATION, CURB AND GUTTER, PAVING, AND ALL ASSOCIATED SITE WORK.
7. INSTALL DESIGNATED SILT FENCE IN FUTURE PAVILION AREA IMMEDIATELY UPON REACHING FINAL GRADE.
8. SEDIMENT TRAPS AND BASINS SHALL REMAIN IN PLACE UNTIL ALL ON SITE CONTRIBUTING AREAS ARE STABILIZED.
9. ONCE THE SITE IS STABILIZED AND AT THE APPROVAL OF THE FRANKLIN COUNTY ENVIRONMENTAL ENGINEERING INSPECTOR, DEWATER AND CLOSE OUT THE TEMPORARY SEDIMENT TRAPS.
10. PLACE TOPSOIL ON GRASS AREAS AND SEED AREAS.
11. CLEAN OUT ANY ACCUMULATED SEDIMENT FROM THE OUTLET PROTECTION AND REDRESS RIP-RAP. ALL SILT MUST BE REMOVED FROM SEDIMENT BASIN PRIOR TO CONVERSION TO THE STORMWATER MANAGEMENT BMP.
12. THE STORMWATER/BMP FACILITY MUST BE OBSERVED DURING CONSTRUCTION AND BE CERTIFIED BY A PROFESSIONAL ENGINEER PRIOR TO RELEASE OF THE BMP PERFORMANCE BOND.
13. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL MEASURE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL MANUAL AFTER RECEIVING APPROVAL TO DO SO FROM FRANKLIN COUNTY EROSION CONTROL INSPECTOR.
14. BMP CERTIFICATION MUST BE CERTIFIED PRIOR TO COMPLETION OF THE PROJECT, AND CERTIFICATION DOCUMENTATION MUST INCLUDE THE FOLLOWING:
    a. AS-BUILT SURVEY OF THE FACILITY.
    b. CERTIFICATION FORM PROVIDING AS-BUILT ELEVATIONS/DIMENSIONS OF BMP.
    c. ELEMENTS (INCLUDING, BUT NOT LIMITED TO: UNDERDRAINS, GRAVEL LAYER, MEDIA LAYER, MULCH, OUTFALL STRUCTURE, GRAVEL DIAPHRAGM, ETC.).
    d. CERTIFICATION FORM PROVIDING AS-BUILT VOLUMES FOR STORMWATER QUALITY AND QUANTITY (1-, 2-, 10-, AND 100-YEAR, AS APPLICABLE).
    e. PHOTOGRAPHIC DOCUMENTATION SHALL BE PROVIDED WHICH COVERS THE CONSTRUCTION/INSTALLATION PROCESS.
    f. THE CERTIFICATION DOCUMENTATION MUST BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER, CERTIFIED LAND SURVEYOR, OR ARCHITECT.

NOTES

- 3:1 AND FLATTER: HYDROSEED WITH GRASS MIX PER LAWNS & GRASS MIX PER LAWNS & GRASSES SPECIFICATIONS, APPLY BIM TYPE-1 MATTING (NON-PLASTIC) COMPLYING WITH SPECIFICATIONS, IF OUTSIDE THE GROWING SEASON.
- STEEPER: HYDROSEED WITH SLOPEMASTER OR APPROVED EQUIVALENT; APPLY BIM TYPE-1 MATTING (NON-PLASTIC) COMPLYING WITH SPECIFICATIONS.

PHASE II EROSION & SEDIMENT CONTROL LEGEND

IP	INLET PROTECTION	3.07
PS	PERMANENT SEEDING	3.32
SM	SOIL STABILIZATION	3.36
OP	OUTLET PROTECTION	3.18
EW	E&S WORK AREA	
DD	DIVERSION DIKE	3.09
DV	DIVERSION	3.10
SD	SLOPE DRAIN	3.15
SF	SILT FENCE	3.05
TS	TEMPORARY SEEDING	3.31
	HYDROSEED COVER	

* VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER

CONVERSION OF SEDIMENT BASINS TO PERMANENT WET PONDS

1. REFER TO BMP PLANS & STORMWATER MANAGEMENT DETAIL DRAWINGS FOR PERMANENT WET PONDS #1 AND #2.
2. CONVERSION FROM SEDIMENT BASINS TO PERMANENT WET PONDS CAN START AFTER UPLAND AREAS HAVE BEEN STABILIZED AND THE PERMANENT STORM SEWER SYSTEM IS ACTIVATED.
3. NOTIFY THE E&S INSPECTOR PRIOR TO CONVERSION.
4. FLUSH CONTRIBUTING STORM SEWER SYSTEM.
5. DEWATER SEDIMENT BASINS USING A FILTER BAG.
6. REMOVE SEDIMENT FROM BASIN AND DISPOSE ACCORDING TO STATE SPECIFICATIONS.
7. INSTALL FOREBAY AS INDICATED ON BMP PLAN DRAWINGS.

**NOTE: IF WETLAND IMPACT #2 (SHOWN ON PHASING DRAWING C0.01) IS NOT ISSUED AT THE TIME OF CONSTRUCTION ACTIVITIES AT THE MEGA PAD SITE, THEN REFER TO THIS DRAWING. IF WETLAND IMPACT #2 IS ISSUED, THEN REFER TO DRAWING C3.12

25' EMERGENCY SPILLWAY
HYDROSEED SLOPES STEEPER THAN 3:1 w/ SLOPEMASTER OR APPROVED ALTERNATE
TSD
DV
EXTEND RIPRAP OUTLET TO TOP OF STREAM BANK (TYP)
30" TEMPORARY SLOPE DRAIN
SB1
SAF
SEDIMENT BASIN TOP ELEVATION 1134'
SEDIMENT BASIN BOTTOM ELEVATION 1120'
15' WIDE GRAVEL ACCESS ROAD
SF
TS
B/M
INSTALL GATE IN SAFETY FENCE FOR ACCESS TO BASIN
PS
FUTURE PROJECT MAC TO BE BY OTHERS
IP
DRAINAGE AREA TO SEDIMENT TRAP #7 = 2.18 AC
DRAINAGE AREA TO SEDIMENT TRAP #6 = 2.50 AC
SWL EL 1153.15'
SWALE #2 TO BMP BOTTOM WIDTH = 4'; 4:1 SIDES; AVG 2' DEPTH @1% SLOPE
CHECKDAMS (TYP.) EVERY 100 FT
HP 1161.9'
SWALE #3 TO INLET 2-20 DA = 4.96 ac RCN = 70 Q_{10} = 10.90 cfs V_2 = 1.85 fps
SWL EL 1158.1'
SEDIMENT TRAP #6 TOP ELEVATION 1156', BOTTOM ELEVATION 1152'
DRAINAGE AREA TO SEDIMENT BASIN #2 = 17.05 AC
DD
HYDROSEED SLOPES STEEPER THAN 3:1 w/ SLOPEMASTER OR APPROVED ALTERNATE
INSTALL GATE IN SAFETY FENCE FOR ACCESS TO BASIN
SEDIMENT BASIN TOP ELEVATION 1090'
SB2
SEDIMENT BASIN BOTTOM ELEVATION 1079'
ST6
ST7
ST5
SEDIMENT TRAP #5 TOP ELEVATION 1154', BOTTOM ELEVATION 1150'
SEDIMENT TRAP #7 TOP ELEVATION 1157', BOTTOM ELEVATION 1153'
SEDIMENT TRAP #4, INSTALLED IN PHASE 1 STEP 2, TO BE FILLED DURING THIS PHASE
SEDIMENT TRAP #2 INSTALLED IN PHASE 1 STEP 2, TO BE FILLED DURING THIS PHASE

SCALE 1"=80'
0
80'
NORTH

COMMONWEALTH OF VIRGINIA
Kevin A. Pennock
KEVIN ANTHONY PENNOCK
Lic. No. 37023
09-28-2017
PROFESSIONAL ENGINEER

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DATE	REVISION DESCRIPTION
07/14/2017	ISSUE FOR BID
08/09/2017	ADDENDUM NO. 3
08/09/2017	ADDENDUM NO. 4
08/21/2017	ADDENDUM NO. 8
09/15/2017	REVISIONS PER VDOT COMMENTS
09/28/2017	REVISIONS PER COUNTY FOR BORROW AREA

DATE 07/14/2017

TIMMONS GROUP

SUMMIT VIEW BUSINESS PARK PHASE 1
FRANKLIN COUNTY, VA
PHASE 2 EROSION & SEDIMENT CONTROL PLAN - NO PERMIT

DRAWN BY D.O.
DESIGNED BY R.S.
CHECKED BY K.P.
SCALE 1" = 80'
JOB NO. 39176
SHEET NO. C3.12b

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