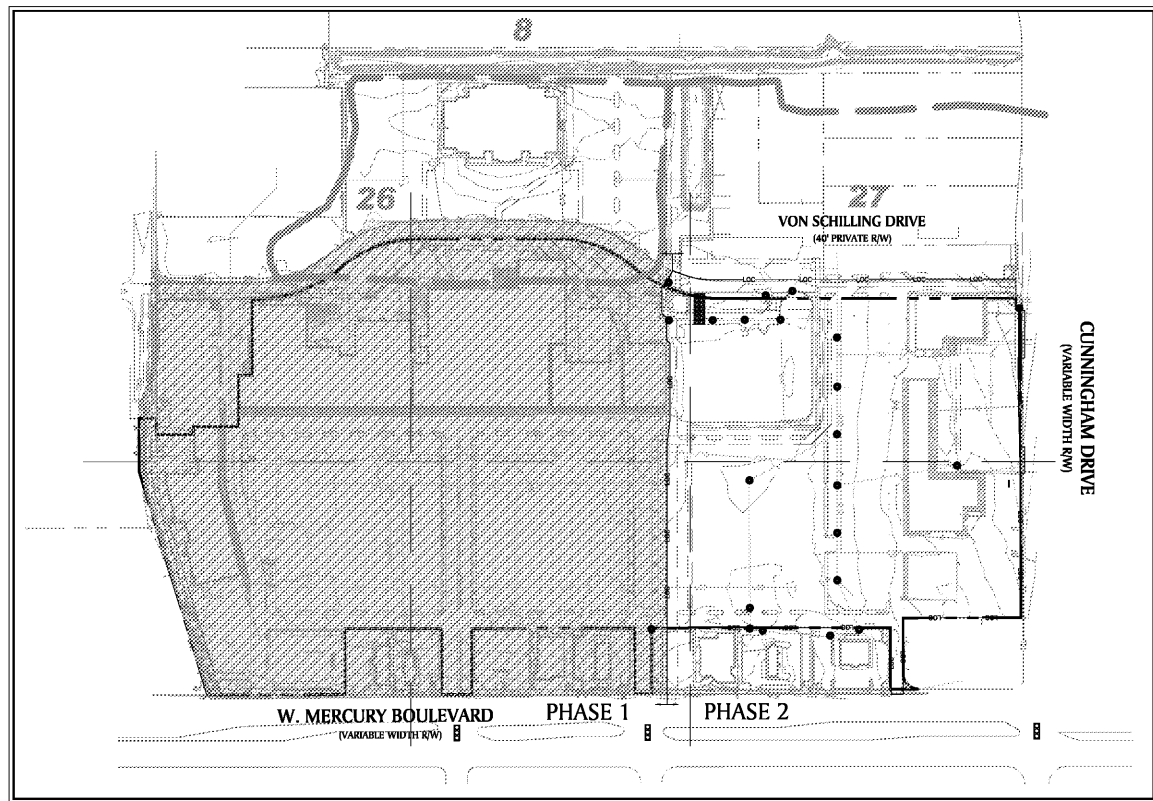
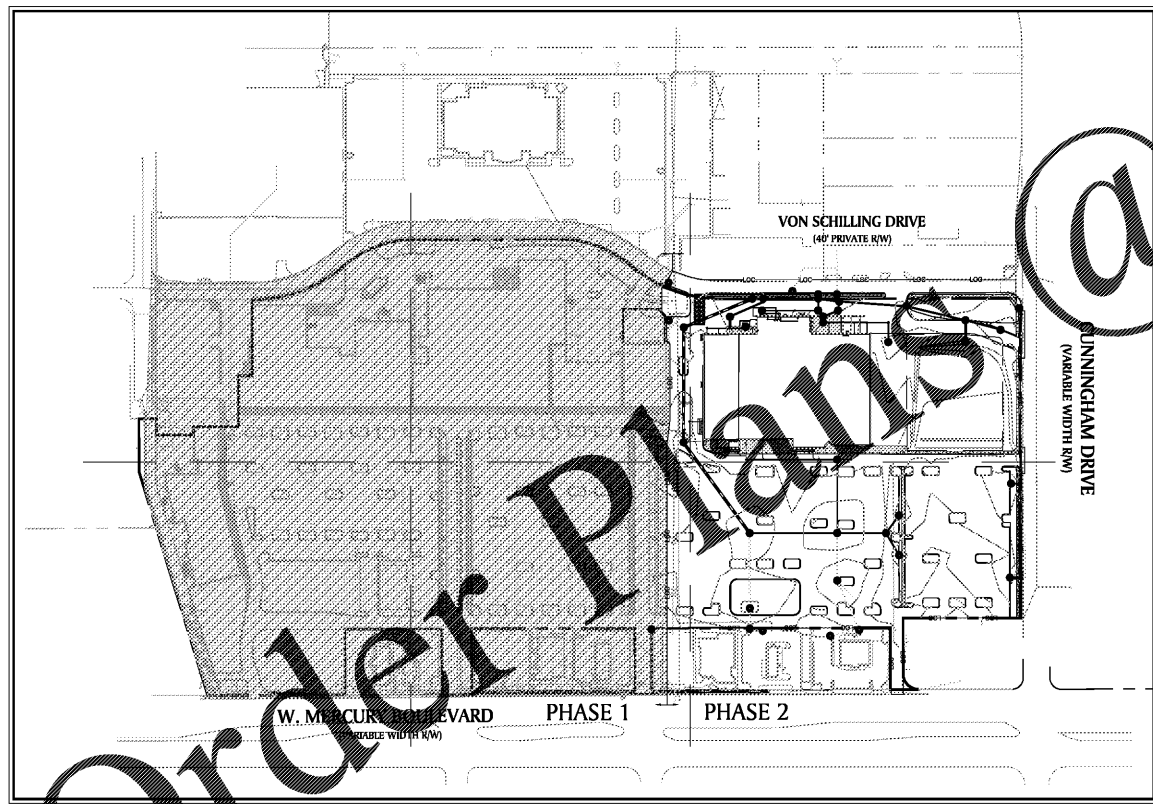
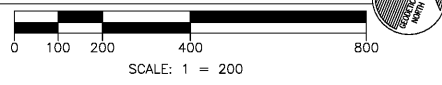


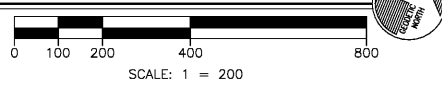
DATE PLOTTED: 10/26/16 10:58 AM PROJECT: RIVERPOINTE PLAZA PHASE 2 EROSION CONTROL PLAN SHEET: EROSION CONTROL NARRATIVE



PRE DEVELOPMENT DRAINAGE MAP



POST DEVELOPMENT DRAINAGE MAP



EROSION & SEDIMENT CONTROL NARRATIVE:

RIVERPOINTE PLAZA
CITY OF HAMPTON, VIRGINIA

PROJECT DESCRIPTION:
LOCATED IN HAMPTON, VIRGINIA, THE OVERALL PROJECT IS LOCATED ON WEST MERCURY BLVD., AND IS BOUNDED BY CUNNINGHAM DRIVE TO THE EAST, ENFIELD DRIVE TO THE WEST AND VON SCHILLING DRIVE TO THE NORTH. THE TOTAL SITE IS APPROXIMATELY 37.80 ACRES. THE TOTAL PROJECT AREA FOR PHASE 2 IS 13.74 ACRES AND THE DISTURBED AREA IS 14.55 ACRES. PHASE 2 CONSISTS OF THE EASTERN HALF OF THE PROJECT SITE. THIS SUBMITTAL PROPOSES THE REMEDIATION OF PORTIONS OF THE SITE PAVING, ROAD, THE REMOVAL OF IMPERVIOUS PAVEMENT AND THE ADDITION OF GREEN SPACE, INSTALLATION OF ASSOCIATED UTILITIES, AND ASSOCIATED EROSION CONTROL MEASURES. OUR PROPOSED REDEVELOPMENT WILL INCREASE THE AMOUNT OF PERVIOUS GREENSPACE ON-SITE, AS WELL AS KEEP THE EXISTING DRAINAGE PATTERNS INTACT. DUE TO THE INCREASE IN PERVIOUS GREENSPACE NO ADDITIONAL DETENTION WILL BE REQUIRED. HOWEVER, WE ARE STILL REQUIRED TO PROVIDE WATER QUALITY TREATMENT FOR PHOSPHORUS LOAD REDUCTION FOR ON-SITE AREAS THAT WILL BE DISTURBED, (CONSTRUCTION OR DEMOLITION THAT EXPOSES SOIL).

EXISTING SITE CONDITIONS:
CURRENTLY THE SITE CONSISTS OF MOSTLY IMPERVIOUS COVER, BUILDINGS, PARKING AREA, AND SIDEWALK. THE SITE DRAINS IN A GENERAL NORTHERLY DIRECTION AND DISCHARGES TO AN EXISTING DRAINAGE DITCH IN THE REAR OF THE CAFE CINEMA SITE.

ADJACENT PROPERTY:
THE SUBJECT PARCEL IS BOUNDED BY WEST MERCURY BOULEVARD TO THE SOUTH, CUNNINGHAM DRIVE TO THE EAST, ENFIELD DRIVE TO THE WEST AND VON SCHILLING DRIVE TO THE NORTH. ADJACENT PROPERTY SHALL NOT BE ADVERSELY AFFECTED BY CONSTRUCTION ACTIVITIES EXCEPT TO THE IN WATER, SEWER AND STORM WATER CONNECTIONS.

OFF-SITE AREAS:
OFF-SITE LAND DISTURBANCE WILL OCCUR AS NECESSARY TO IMPROVE THE DEVELOPMENT. OFF-SITE LAND DISTURBANCE IN THE PORTION OF ENFIELD DRIVE HAS BEEN INCLUDED IN PERMIT LIMITS AS NECESSARY TO COMPLETE GRADING AND CURB RELOCATION TO CREATE PARCEL 5. EROSION AND SEDIMENT CONTROL MEASURES WERE ADDED AS A PRECAUTION TO HELP CAPTURE SEDIMENT BEFORE IT ENTERS THE STORM SYSTEM OR LEAVES THE SITE.

SOILS:
TEST BORINGS WERE OBTAINED AND ANALYZED IN THE GEOTECHNICAL REPORT PREPARED BY ENGINEERING & TESTING SERVICES, INC. ON SEPTEMBER 3, 2015. THERE ARE NO AREAS CREATING POTENTIALLY SERIOUS EROSION PROBLEMS ON THIS PROJECT. REFER TO THE GEOTECH REPORT FOR DEMOLITION AND CONSTRUCTION REQUIREMENTS.

EROSION AND SEDIMENT CONTROL MEASURES:
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

STRUCTURAL PRACTICES:

3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE
DEFINITION - A STABILIZED STONE PAD WITH A FILTER FABRIC UNDERLINER LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.
PURPOSE - TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PAVED PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.
MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND. REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

3.04 STRAW BALE BARRIER
DEFINITION - A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED STRAW BALES.
PURPOSES
1. TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS OF LIMITED EXTENT IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
2. TO DECREASE THE VELOCITY OF SHEET FLOWS.
MAINTENANCE
1. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DURING PROLONGED RAINFALL.
2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTS.
3. REPAIRS TO DAMAGED BALE REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED BEFORE THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BALE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

3.05 SILT FENCE
DEFINITION - A TEMPORARY SEDIMENT BARRIER CONSISTING OF A SYNTHETIC FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED.
PURPOSES
1. TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
2. TO DECREASE THE VELOCITY OF SHEET FLOWS AND LOW-TO-MODERATE LEVEL CHANNEL FLOWS.
MAINTENANCE
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING.
3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
5. 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.

3.07 STORM DRAIN INLET PROTECTION
DEFINITION - A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET.
PURPOSE - TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.
MAINTENANCE
1. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
2. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

3.31 TEMPORARY SEEDING
DEFINITION - THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS.
PURPOSES
1. 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.
2. 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.

3.32 PERMANENT SEEDING
DEFINITION - THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS BY PLANTING SEED.
PURPOSES
1. TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS.
2. TO PERMANENTLY STABILIZE DISTURBED AREAS IN A MANNER THAT IS ECONOMICALLY ADAPTABLE TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.
3. TO IMPROVE WILDLIFE HABITAT.
4. TO ENHANCE NATURAL BEAUTY.

3.35 MULCHING
DEFINITION - APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE.
PURPOSES
1. TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND REDUCING THE VELOCITY OF OVERLAND FLOW.
2. TO FOSTER THE GROWTH OF VEGETATION BY INCREASING AVAILABLE MOISTURE AND PREVENTING INSULATION AGAINST EXTREME HEAT AND COLD.
MAINTENANCE - ALL MULCHES AND SOIL COVERSINGS SHOULD BE INSPECTED PERIODICALLY (PARTICULARLY AFTER RAINSTORMS) TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, ADDITIONAL MULCH SHOULD BE APPLIED. NETS AND MATS SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, RE-INSTALL NETTING OR MATTING AS NECESSARY. AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH, INSPECTIONS SHOULD TAKE PLACE UP UNTIL GRASSES ARE FIRMLY ESTABLISHED, WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE; REPAIR AS NEEDED.

3.39 DUST CONTROL
DEFINITION - REDUCING SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES.
PURPOSE - TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

STOCKPILING
TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT SHALL RESULT. STABILIZE OR STOCKPILE IN ACCORDANCE WITH MS #2. SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 2:1. PERIMETER CONTROLS MUST BE PLACED AROUND THE STOCKPILE IMMEDIATELY UPON THE STOCKPILE, IN ACCORDANCE WITH STD. & SPEC. 3.31. TOPSOIL SEEDING IF IT REMAINS DOMINANT FOR LONGER THAN 30 DAYS (REFER TO MS #1 AND MS #2).

PERMANENT STABILIZATION
THE SITE WILL BE STABILIZED WITH GRASS, CONCRETE AND ASPHALT PAVING COVERING MOST OF THE SITE. THE REMAINING AREAS WILL BE STABILIZED WITH PERMANENT SEEDS AS SHOWN ON THE LANDSCAPE PLAN AND PHASE II EROSION CONTROL PLAN SHEET.

SEQUENCE OF CONSTRUCTION

1. RECEIPT OF ALL REQUIRED PERMITS, A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED WITH THE EROSION CONTROL INSPECTOR AS REQUIRED.
2. INSTALL CONSTRUCTION ENTRANCE, STRAW BALE BARRIER, AND CULVERT INLET PROTECTION.
3. UPON FINALIZING DEMOLITION, INSTALL CURB, RAMP SYSTEMS, CURB, ASPHALT, AND SIDEWALKS.
ALL DISTURBED AREAS WHICH ARE NOT DESIGNATED FOR PAVING, UTILITY OR STRUCTURAL USES SHALL BE PROTECTED FOR NO LONGER THAN 7 DAYS. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM COVER OF 4" OF TOPSOIL (TOPSOIL SEEDING IN ACCORDANCE TO VDOT SPEC. 602) AND SHALL BE SEEDING/FILTERED/ETC. IN ACCORDANCE WITH THE TABLES 3.31-8 AND 3.32-E FROM THIS PLAN.

QUALITY TRENCHES

- a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- b. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- c. EFFLUENT FROM DOWNEATER OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT-TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- d. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- e. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER.
- f. APPLICABLE SAFETY CHAPTERS SHALL BE COMPLIED WITH.

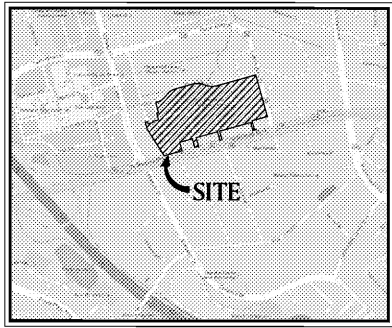
| EROSION CONTROL LEGEND | | | | | |
|------------------------|----------------------|------------|------|---------------------------------------------------------------|------------|
| CODE | PRACTICE | MAP SYMBOL | CODE | PRACTICE | MAP SYMBOL |
| TS | TEMPORARY SEEDING | (TS) | P | TEMPORARY INLET SEDIMENT TRAP (EXCAVATED INLET SEDIMENT TRAP) | (P) |
| PS | PERMANENT VEGETATION | (PS) | P | TEMPORARY INLET SEDIMENT TRAP (CURB INLET PROTECTION) | (P) |
| CE | CONSTRUCTION EXIT | (CE) | STB | STRAW BALE BARRIER | (STB) |
| | | | | LIMITS OF CONSTRUCTION | (---) |

EROSION CONTROL NOTES

1. CONTRACTOR IS TO ADHERE TO THE EROSION AND SEDIMENT CONTROL REGULATIONS OF THE "VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK", LATEST EDITION.
2. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
3. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
4. CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS AND IN THE SPECIFICATIONS.
5. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
6. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIP-RAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
7. HAY BALES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROPERTY LIMITS.
8. GEOTECHNICAL ENGINEER SHALL CERTIFY THAT ALL FILL AREAS ARE TO A MINIMUM 98% COMPACTION.
9. ADDITIONAL EROSION CONTROL DEVICES SHALL BE USED AS REQUIRED.
10. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, DETENTION PONDS AND DETENTION POND OUTLET STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
11. THE CONSTRUCTION PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD OUTSIDE THE LIMITS OF CONSTRUCTION. MUD TRACKING OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE SWEEPED DAILY.
12. WHENEVER SEDIMENT-LADEN WATER IS REMOVED FROM A CONSTRUCTION SITE BY MEANS OF PUMPING A TEMPORARY SETTLING & FILTERING DEVICE SHALL BE USED TO FILTER THE SEDIMENT-LADEN WATER PRIOR TO THE WATER BEING DUMPED TO OFF-SITE.

TABLE 6-1 GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ES-1: Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations 4VAC50-30-1 Erosion and Sediment Control Regulations.
- ES-2: The plan approving authority must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activity, and one week prior to the final inspection.
- ES-3: All erosion and sediment control measures are to be placed prior to or as the first step in clearing.
- ES-4: A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.
- ES-5: Prior to commencing land disturbing activities in areas other than indicated on these plans (including, but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the owner for review and approval by the plan approving authority.
- ES-6: The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.
- ES-7: All disturbed areas are to drain to approved sediment control measures at all times during land disturbing activities and during site development until final stabilization is achieved.
- ES-8: During dewatering operations, water will be pumped into an approved filtering device.
- ES-9: The contractor shall inspect all erosion control measures periodically and after each runoff-producing rainfall event. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately.



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PROJECT:
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1048 & 1050 W. MERCURY BLVD.
HAMPTON, VIRGINIA 23666

FOR:
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2743 PERIMETER PARKWAY
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AUGUSTA, GA 30909
PH. (706) 854-6714

| REVISIONS | | |
|-----------|-----------------|--|
| 10.04.16 | CITY COMMENTS | |
| 10.13.16 | CITY COMMENTS | |
| 11.01.18 | CLIENT COMMENTS | |

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EROSION CONTROL NARRATIVE