

# EROSION & SEDIMENT CONTROL NOTES



## PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT AND ACCESS ROAD AND A FUEL FARM ROAD TO SERVE FUTURE DOMINION ENERGY DEVELOPMENTS ADJACENT TO THE PROJECT AREA. THE DOMINION ACCESS ROAD WILL CONNECT EAST SIDE LANE WITH AN EXISTING PARKING LOT AND THUNDERBOLT STREET. THUNDERBOLT DRIVE WILL BE PARTIALLY DEMOLISHED AS SHOWN ON THE PLANS. THE FUEL FARM ROAD WILL CONNECT AS A LOOP ON EITHER END TO THUNDERBOLT STREET. THE TOTAL LAND DISTURBANCE FOR THIS PROJECT IS APPROXIMATELY 5.26 ACRES.

## EXISTING SITE CONDITIONS:

EXISTING THUNDERBOLT STREET AND THE DHL ACCESS ROAD ARE CURRENTLY THE ONLY ACTIVE FACILITIES CARRYING RELATIVELY LOW TRAFFIC VOLUMES INTO THE PROJECT SITE. THUNDERBOLT DRIVE, WHICH RUNS PERPENDICULAR TO THE PROPOSED ACCESS ROAD, WILL BE PARTIALLY DEMOLISHED AS SHOWN ON THE PLANS. THE PROJECT WILL TAKE PLACE ENTIRELY WITHIN RICHMOND INTERNATIONAL AIRPORT PROPERTY. EXISTING SLOPES ADJACENT TO CONSTRUCTION ARE GENERALLY FLAT (0%-2%). THERE SHALL BE NO UNNECESSARY DESTRUCTION OF VEGETATION IN AREAS THAT DO NOT FALL WITHIN THE LIMITS OF DISTURBANCE. SEE EROSION AND SEDIMENT CONTROL PLANS FOR THE LIMITS OF DISTURBANCE.

## ADJACENT PROPERTY:

THE SURROUNDING PROPERTY IS COMPRISED OF AIRPORT FACILITIES AND INDUSTRIAL DEVELOPMENT. OFFSITE DISTURBANCES NOT SHOWN IN THE PLANS SHOULD BE KEPT TO AN ABSOLUTE MINIMUM.

## SOILS:

THE SOILS WITHIN THE PROJECT LIMITS ARE PRIMARILY COMPRISED OF LYNCHBURG FINE SANDY LOAM.

## OFF-SITE AREAS:

THERE ARE NO OFF-SITE DISTURBANCES ASSOCIATED WITH THIS PROJECT.

## CRITICAL EROSION AREAS:

CRITICAL AREAS ARE AS FOLLOWS:

- ALL ADJACENT AND CONNECTING ROADS FOR THE LENGTH OF THE PROJECT. CONTRACTOR MUST KEEP EXISTING ROADS FROM BUILD-UP OF SOIL.
- 2:1 SLOPES SHALL BE PROTECTED WITH EC-2 MATTING TO PREVENT EROSION

## EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

## PHASE I - EROSION & SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION:

- SCHEDULE A PRECONSTRUCTION MEETING, GIVE A 48-HOUR NOTIFICATION OF THE PRECONSTRUCTION MEETING AND A CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) MUST BE PRESENT AT THE MEETING. A VDOT LAND-USE PERMIT IS REQUIRED PRIOR TO ISSUANCE OF A LAND DISTURBANCE PERMIT. IF CONSTRUCTION DOES NOT COMMENCE FOR 180 DAYS FOLLOWING THE PRE-CON. MEETING OR IF THE PROJECT IS DORMANT FOR 180 DAYS AT ANY TIME, A NEW PRE-CON. MEETING IS REQUIRED PRIOR TO RESUMING CONSTRUCTION.
- PROVIDE MINIMAL DISTURBANCE TO INSTALL SILT FENCE AND SAFETY FENCE AS SHOWN ON THE PLANS. TAKE SPECIAL CARE TO KEEP SOIL BUILD-UP FROM ENTERING DOWNSTREAM OUTFALLS.
- INSTALL INLET PROTECTION AS REQUIRED FOR EXISTING INLETS.
- INSTALL CONSTRUCTION ENTRANCES IN LOCATIONS SHOWN ON THE PLANS.
- INSTALL DIVERSION DIKES AS DESCRIBED ON THE PLANS.
- ENSURE ALL EROSION CONTROL MEASURES ARE IN GOOD WORKING ORDER AND ARE FUNCTIONING AS INTENDED PRIOR TO FURTHER LAND DISTURBANCE. IF IT IS NOTICED THAT E&S MEASURES ARE NOT PROVIDING ADEQUATE PROTECTION, INSTALL ADDITIONAL MEASURES IMMEDIATELY AN/OR CONTACT ENGINEER FOR GUIDANCE.
- ONCE PRELIMINARY E&S MEASURES ARE INSTALLED, CLEAR AND GRUB AS INDICATED IN THE PLANS. MAINTAIN ACCESS ALONG EXISTING ROADS AT ALL TIMES.
- TEMPORARY GRADING AND SEEDING IS REQUIRED WITHIN 7 DAYS OF DISTURBANCE FOR ALL AREAS WHICH ARE NOT TO BE ACTIVELY CONSTRUCTED UPON WITHIN 14 DAYS OF INITIAL DISTURBANCE.
- LAND DISTURBANCE OUTSIDE THE PRELIMINARY LIMITS OF DISTURBANCE MAY NOT OCCUR UNTIL THE INITIAL ESC MEASURES INSTALLATION HAS BEEN APPROVED BY THE ENVIRONMENTAL INSPECTOR.
- ONCE PHASE I IS COMPLETED, THE ENVIRONMENTAL INSPECTOR SHALL INSPECT AND GRANT APPROVAL TO PROCEED TO PHASE II OF THE E&S PLAN.

## PHASE II - EROSION & SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION:

- UPON COMPLETION OF PHASE I EROSION CONTROL MEASURES AND ONCE THE ENVIRONMENTAL INSPECTOR HAS GRANTED APPROVAL, COMMENCE PHASE II EROSION CONTROL PLAN.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THAT WHICH IS DESCRIBED IN THIS PLAN AND THE CONTRACTOR SHALL AVOID DISTURBING AREAS THAT WILL REMAIN DORMANT (UNDISTURBED) FOR GREATER THAN THIRTY (30) DAYS. ENSURE POSITIVE DRAINAGE AT ALL TIMES.
- COMMENCE ROUGH GRADING AS REQUIRED FOR PROPOSED PAVEMENT CONSTRUCTION. ROCK CHECK DAMS SHALL BE INSTALLED AS SHOWN ON THE PLANS UPON DITCH GRADING.
- THE SITE SHALL BE PERMANENTLY STABILIZED AFTER ALL GRADING HAS BEEN COMPLETED BY SEEDING ALL DENUDED AREAS. ALL DIVERSIONS MUST BE SEEDED AND MULCHED IMMEDIATELY UPON CONSTRUCTION.
- INSTALL PROPOSED DRAINAGE STRUCTURES AND INSTALL INLET PROTECTION FOR PROPOSED FACILITIES AS DENOTED ON THE PLANS. MAINTAIN SILT FENCE AND SAFETY FENCE AT ALL TIMES AS DENOTED ON THE PLANS.

## PHASE II - EROSION & SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION (CONTINUED):

- FINE GRADE ROADS, INSTALL CURB AND GUTTER, INSTALL STONE BASE FOR ROAD CONSTRUCTION AND ANY INTERMEDIATE AND/OR TOP COURSES OF ASPHALT ONCE FINAL GRADES ARE REACHED.
- THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND ESTABLISHING LAYDOWN AREAS AS NEEDED. THESE LAYDOWN AREAS ARE ONLY TO BE USED FOR STORAGE OF EQUIPMENT AND CONSTRUCTION MATERIALS ONLY, NOT FOR STOCKPILING EARTH OR SOIL. THE LAYDOWN AREAS MUST BE APPROVED BY THE ENV. INSPECTOR AND HAVE ALL NECESSARY ESC MEASURES INSTALLED.
- UPON CONSTRUCTION COMPLETION, THE CONTRACTOR MUST CONTACT THE ENVIRONMENTAL INSPECTOR FOR EROSION CONTROL INSPECTION OF SLOPE STABILITY. EROSION CONTROL MEASURES MAY NOT BE REMOVED WITHOUT AUTHORIZATION BY THE ENVIRONMENTAL INSPECTOR.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUESTED BY THE ENVIRONMENTAL INSPECTOR AT ANY TIME DURING LAND DISTURBANCE. NO EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENVIRONMENTAL INSPECTOR.

## MINIMUM STANDARDS

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

- 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.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR 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 AREAS LESS THAN THREE ACRES.
  - SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- 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. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED WITH NONERODIBLE COVER MATERIALS.
- WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

## MINIMUM STANDARDS (CONTINUED)

- THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
  - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
  - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
  - EFFLUENT FROM DEWATERING 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.
  - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
  - RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
  - APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- 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. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:
  - CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSIS AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.
  - ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
    - THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION.
    - NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR FREQUENCY STORM TO VERIFY THAT THE STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.
    - ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR FREQUENCY STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
    - PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR FREQUENCY STORM TO VERIFY THAT THE STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
  - IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
    - IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR FREQUENCY STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR FREQUENCY STORM WILL NOT CAUSE EROSION TO THE CHANNEL, BED OR BANKS; OR
    - IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR FREQUENCY STORM IS CONTAINED WITHIN THE APPURTENANCES; OR
    - DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL.
    - PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION/RETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.

## MINIMUM STANDARDS (CONTINUED)

- (CONTINUED):
  - IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS IN A RESIDENTIAL SUBDIVISION DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE RESIDENTIAL SUBDIVISION DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE SUBDIVISION DEVELOPMENT SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
  - PROPOSED COMMERCIAL OR INDUSTRIAL SUBDIVISIONS SHALL APPLY THESE STORMWATER MANAGEMENT CRITERIA TO THE DEVELOPMENT AS A WHOLE, HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE SUBDIVISION DEVELOPMENT SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

**REFER TO SHEETS 2D(5) - 2D(8)  
FOR EROSION CONTROL LEGEND**

## EROSION & SEDIMENT CONTROL QUANTITIES

TEMPORARY SILT FENCE	4200 LF
SUPER SILT FENCE	350 LF
TEMPORARY SAFETY FENCE	1175 LF
LIMITS OF DISTURBANCE	5.40 AC
INLET PROTECTION	18 EA
CULVERT INLET PROTECTION	5 EA
OUTLET PROTECTION	1 EA
ROCK CHECK DAMS	5 EA
SILT FENCE BREAKS	10 EA
SLOPE STABILIZATION EC-2 TYPE 1	450 SY
CONSTRUCTION ENTRANCE	5 EA
PERMANENT SEEDING	4.50 AC

**NOTE:**  
1. CONTRACTOR MUST KEEP EXISTING ROADS AND DOWNSTREAM OUTFALLS FREE FROM EXCESS SOIL.

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Site Development | Residential | Infrastructure | Technology

**EAST RAMP 3 ACCESS ROAD**  
HENRICO COUNTY - VIRGINIA

**EROSION & SEDIMENT CONTROL NOTES & DETAILS**

JOB NO.  
40930.001

SHEET NO.  
02D(01)

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