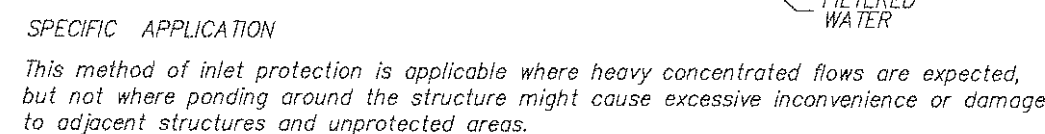
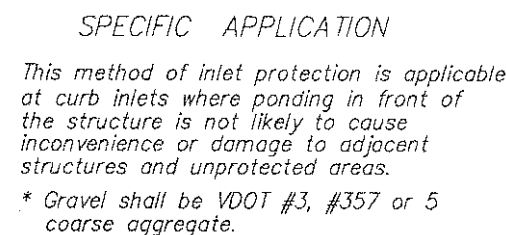
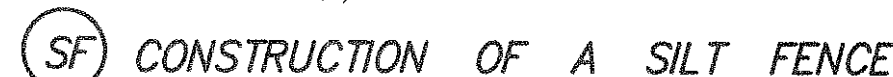
GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED.
4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.



\* Gravel shall be VDOT #3, #357 or #5 coarse aggregate.



## SOIL EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A NEW ± 7,500 SQ. FT. (FOOTPRINT AREA) BUILDING, RECONSTRUCT PORTIONS OF THE ACCESS ROADS, AND CONSTRUCT A NEW PARKING LOT FOR "VIRGINIA'S EXPLORE PARK", IN THE COUNTY OF ROANOKE, VIRGINIA.

EXISTING SITE CONDITIONS: THE SITE IS CURRENTLY GRASS, LANDSCAPING, AND BITUMINOUS PAVEMENT, THE MAJORITY OF WHICH DRAINS IN AN EASTERLY DIRECTION TO AN EXISTING STORM DRAIN SYSTEM WHICH DISCHARGES TO PREVIOUSLY CONSTRUCTED STORMWATER MANAGEMENT IMPOUNDMENT FACILITIES.

THE CONTRACTOR IS REQUIRED TO PLACE THE TEMPORARY SEDIMENTATION MEASURES IN A MANNER TO MAXIMIZE THEIR EFFECT, WITHOUT INTERFERING WITH PARK ACTIVITIES.  
ADJACENT PROPERTY: ALL SURROUNDING PROPERTY IS PART OF THE PARK.

CRITICAL AREAS: THE SILT FENCE BARRIERS SHALL BE REGULARLY INSPECTED AND CLEANED OR REPLACED AS REQUIRED.

INLET PROTECTION MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD, SUCH THAT SILTATION OF THE STORM DRAIN SYSTEM IS KEPT AT A MINIMUM.

DUST CONTROL MEASURES SHALL BE UTILIZED AS REQUIRED TO MINIMIZE AIRBORNE SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES, PARTICULARLY ADJOINING DWELLINGS.

EXISTING AND PROPOSED SLOPES SHALL BE PROTECTED FROM EROSION. UNDER NO CIRCUMSTANCES SHALL CONCENTRATED RUNOFF BE ALLOWED TO FLOW DOWN SLOPES, OR ONTO UN-PROTECTED AREAS. ALL RUNOFF SHALL BE TRANSPORTED TO THE TEMPORARY SEDIMENT BASINS VIA THE EXISTING STORM DRAINAGE SYSTEM.

PAVED AREAS NOT TO BE DISTURBED SHALL REMAIN IN A DUST AND MUD-FREE CONDITION AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. SHOULD OFF-SITE SEDIMENTATION OCCUR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETURN ALL AFFECTED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. ANY SEDIMENT SHALL BE RETURNED TO THE SITE, OR TO A COUNTY OF ROANOKE APPROVED AREA.

DISTURBED AREAS THAT ARE NOT TO BE PERMANENTLY STABILIZED WITHIN THIRTY (30) DAYS SHALL BE TEMPORARILY SEEDED IN ACCORDANCE WITH STANDARD AND SPEC. 3.31 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", THIRD EDITION.

1. THE CONSTRUCTION ENTRANCES SHALL BE CONTINUALLY MAINTAINED AND MONITORED FOR RUTTING, PUMPING, OR OTHER DELETERIOUS EFFECTS, AND SHALL BE REPAIRED, REPLACED, OR MODIFIED AS DIRECTED BY THE COUNTY INSPECTOR, TO INSURE THAT OFF-SITE SEDIMENTATION IS AVOIDED.
2. REGARDLESS OF FUTURE DEVELOPMENT PLANS, THE CONTRACTOR SHALL IMMEDIATELY INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS. THIS WORK SHALL BE COORDINATED IN ORDER OF THE WORK WHICH IS TO FOLLOW: CONTROL AT CENTERS OF FLOW, AND OTHER POINTS OF CONCENTRATION SHOWN SHALL BE CONSTRUCTED IN PLACE FIRST.
3. UNDER NO CIRCUMSTANCES SHALL SOIL EROSION CONTROL MEASURES BE REMOVED FROM THEIR INTENDED AREA, UNLESS AUTHORIZED BY THE COUNTY. THE CONTRACTOR SHALL INSURE THAT ALL MEASURES ARE FUNCTIONAL AT ALL TIMES, AND SHALL NOTIFY THE ENGINEER OF ANY PROBLEM AREAS THAT WILL REQUIRE ADDITIONAL MEASURES. AREAS SHOWN WITHIN THESE PLANS TO RECEIVE PERMANENT SEEDING SHALL BE SEEDED, FERTILIZED, MULCHED, AND WATERED AS DETAILED ON THIS SHEET. ALTERNATE SEEDING SPECIFICATIONS FOR SLOPES AND GENERAL AREAS MAY BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL MEASURES SHOWN HEREON SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION, BY ACCEPTING THIS SITE, THE CONTRACTOR IS ACKNOWLEDGING HIS UNDERSTANDING OF THESE REQUIREMENTS, AND AGREES TO UPHOLD THESE STANDARDS AND SPECIFICATIONS.
4. IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR:
  - A. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR FLOW OF MUD ONTO PAVED AREAS.
  - B. ALL SILT FENCE BARRIERS AND INLET PROTECTIONS SHALL BE CHECKED REGULARLY FOR UNDERMINING AND SEDIMENT BUILDUP.
  - C. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDING AS NEEDED.
5. THE SOIL EROSION CONTROL MEASURES INSTALLED FOR THIS CONTRACT SHALL REMAIN IN PLACE FOLLOWING CLOSE-OUT OF THE PHASE I CONSTRUCTION. THE GRADING CONTRACTOR WILL BE RESPONSIBLE FOR THE SOIL EROSION CONTROL ON THIS SITE UNTIL THE BUILDING CONTRACTOR HAS FORMALLY ACCEPTED THE SITE.

GENERAL COMMENTS:

1. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
2. THE COUNTY OF ROANOKE RESERVES THE RIGHT TO ADD TO, DELETE, OR OTHERWISE CHANGE EROSION CONTROL DEVICES AS MAY BE DEEMED NECESSARY BY WRITTEN NOTIFICATION TO THE CONTRACTOR.
3. NO WORK SHALL PROCEED ON THE SITE UNTIL THE PROPER AUTHORIZATION OR PERMIT HAS BEEN OBTAINED FROM THE COUNTY OF ROANOKE.
4. THE ENGINEER, CALDWELL WHITE ASSOCIATES, ASSUMES NO RESPONSIBILITY FOR ANY WORK BEING PERFORMED.

### SOIL EROSION CONTROL MEASURES

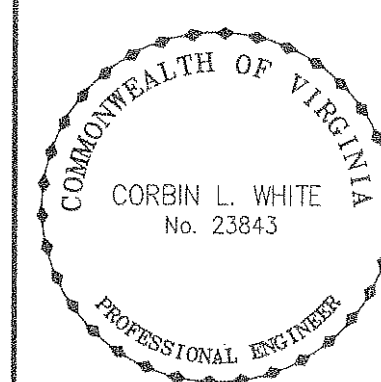
- |   |  |
|---|--|
| <p><b>SF SILT FENCE BARRIER</b><br/>SILT FENCE BARRIER SHALL BE PLACED BELOW ALL DENVED AREAS AS SHOWN ON THE EROSION CONTROL PLAN(S). THIS BARRIER SHALL BE INSPECTED AFTER EACH RUNOFF PRODUCING RAINFALL, AND SHALL BE CLEANED, REPAIRED, OR REPLACED AS REQUIRED.</p> | <p><b>CD ROCK CHECK DAMS</b><br/>STONE CHECK DAMS SHALL BE PROVIDED IN THE NEW DITCH LINES, TO REDUCE FLOW VELOCITIES, AND THEREFORE PREVENT DITCH-LINE EROSION.</p>   |
| <p><b>CE CONSTRUCTION ENTRANCE</b><br/>TWO STONE CONSTRUCTION ENTRANCES SHALL BE PROVIDED OFF OF EXISTING PAVEMENT. THESE ENTRANCES SHALL BE MAINTAINED SUCH THAT TRACKING OF MUD AND DIRT ONTO THE PAVED SURFACE IS HELD AT AN ABSOLUTE MINIMUM.</p>                     | <p><b>SPS CONSTRUCTION ROAD STABILIZATION</b><br/>THE MAIN ACCESS ROADS SHALL BE STABILIZED WITH 6" OF BASE STONE IMMEDIATELY UPON REACHING FINAL GRADE, TO REDUCE EROSION DUE TO SHEET FLOW RUNOFF AND DAMAGE TO SUBGRADE BY MOVEMENT OF CONSTRUCTION TRAFFIC.</p>  |
| <p><b>IP INLET PROTECTION</b><br/>ALL NEW AND EXISTING INLET STRUCTURES SHALL RECEIVE INLET PROTECTIVE MEASURES TO MINIMIZE INFILTRATION OF SEDIMENT INTO THE STORM DRAIN SYSTEM, AND ULTIMATELY THE RECEIVING CHANNELS.</p>  | <p><b>PS PERMANENT SEEDING</b><br/>ALL DENVED AREAS NOT TO RECEIVE HARD SURFACING SHALL BE PERMANENTLY SEEDDED WITHIN SEVEN DAYS OF FINAL GRADING OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANUAL FOR SEEDING MIXES TO BE USED ON THE PLAYING FIELDS. ALL SLOPES STEEPER THAN 3H:1V SHALL RECEIVE TYPE B SEEDING MIXTURE (LOW MAINTENANCE), AS SPECIFIED HEREON.</p> |
| <p><b>CIP CULVERT INLET PROTECTION</b><br/>STORM DRAIN CULVERTS SHALL RECEIVE CULVERT INLET PROTECTION, TO REDUCE FLOW VELOCITIES AND TRAP SEDIMENT AT THE INLET END OF THE CULVERTS.</p>   |  |

## SOIL EROSION CONTROL DETAILS


FOR  
BLUE RIDGE PARKWAY INTERPRETIVE CENTER

FOR  
VIRGINIA'S EXPLORE PARK

SITUATE OFF OF RUTROUGH ROAD AND THE BLUE RIDGE PARKWAY  
VINTON MAGISTERIAL DISTRICT  
COUNTY OF ROANOKE, VIRGINIA



Designed: C.L White  
 Drawn: C.L White  
 Checked: \_\_\_\_\_  
 Date: October 12, 1999  
 Scale: As Shown  
 Tax Parcel: 80.00-05-23  
 W.O. No.: 99-0040

  
**CALDWELL WHITE ASSOCIATES**  
ENGINEERS / SURVEYORS / PLANNERS  
1054 OLD COUNTRY CLUB ROAD  
P.O. BOX 6340  
ROANOKE, VIRGINIA 24017  
(540) 342-7094  
FAX: (540) 342-7099