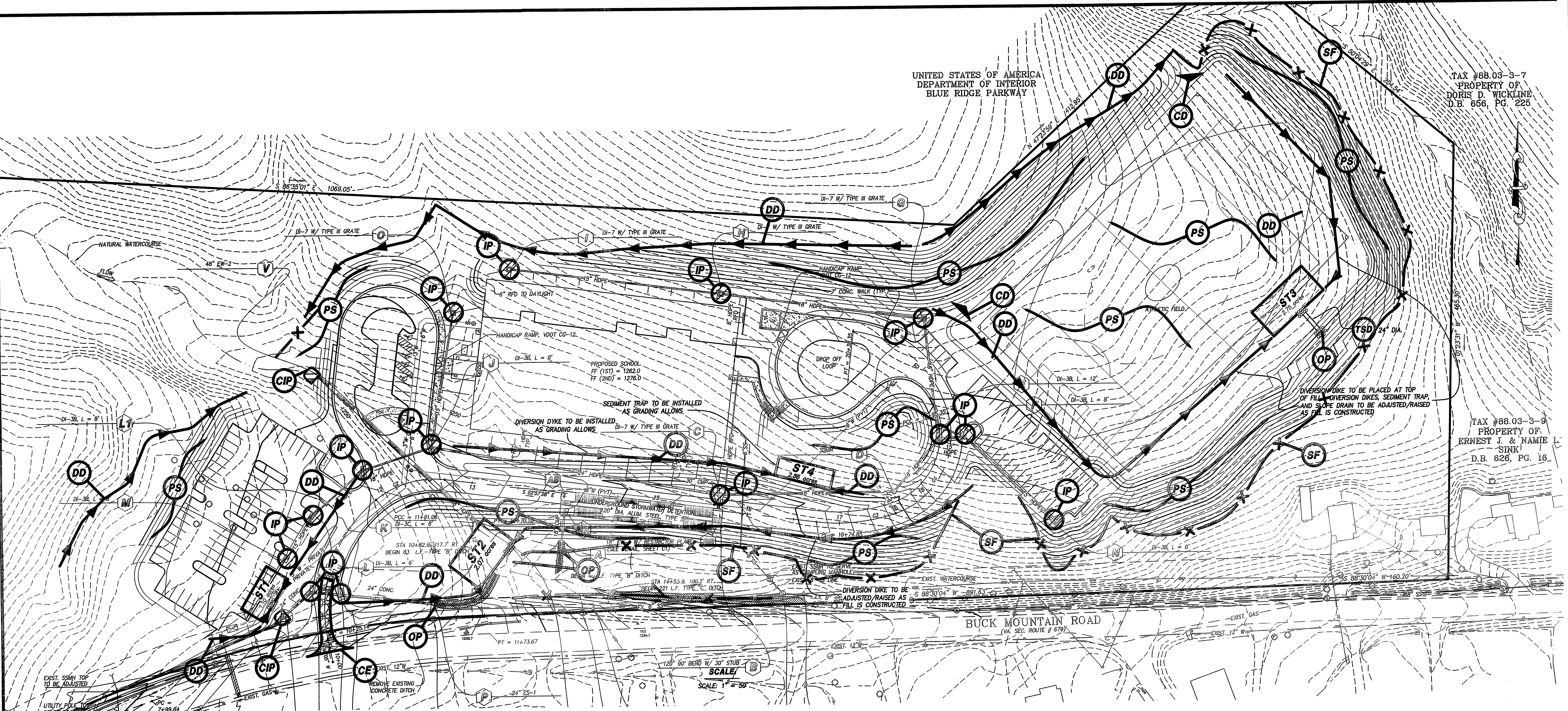




EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A SCHOOL SITE WITH ASSOCIATED PARKING, ATHLETIC FIELD, STORM DRAIN SYSTEM, WATER SYSTEM, STORM WATER MANAGEMENT FACILITY, AND SANITARY SEWER SYSTEM.

EXISTING SITE CONDITIONS:
THIS SITE IS STEEP SLOPED DRAINING SOUTH TO AN EXISTING GRASSED DITCH ALONG THE NORTH SIDE OF BUCK MOUNTAIN ROAD.

ADJACENT AREAS:
THIS DEVELOPMENT IS BORDERED ON THE EAST AND WEST BY RESIDENTIAL PROPERTY, TO THE NORTH BY THE U.S. DEPT. OF INTERIOR BLUE RIDGE PARKWAY, AND TO THE SOUTH BY THE BUCK MOUNTAIN ROAD RIGHT-OF-WAY.

OFFSITE AREAS:
NO OFFSITE FILL OR BORROW SITES ARE COVERED BY THIS EROSION AND SEDIMENT CONTROL PLAN.

EROSION AND SEDIMENT CONTROL MEASURES:
CONSTRUCTION ENTRANCE (3.02) - A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING ROADS.

SILT FENCE (3.05) - SILT FENCE WILL BE INSTALLED AT THE LOWER ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.

INLET PROTECTION (3.07) - INLET PROTECTION WILL BE INSTALLED AT EACH STORM DRAIN INLET TO MINIMIZE THE AMOUNT OF SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.

CULVERT INLET PROTECTION (3.08) - CULVERT INLET PROTECTION WILL BE INSTALLED AT THE INLET END OF CULVERTS TO MINIMIZE SEDIMENT LADEN RUNOFF FROM ENTERING THE CULVERT.

DIVERSION DIKE (3.09) - DIVERSION DIKES WILL BE INSTALLED TO DIVERT OFFSITE RUNOFF AROUND THE CONSTRUCTION AREA AND ALSO TO DIVERT SEDIMENT LADEN RUNOFF INTO THE SEDIMENT TRAPS.

TEMPORARY SEDIMENT TRAPS (3.13) - SEDIMENT TRAPS WILL BE UTILIZED TO ALLOW SEDIMENT TO SETTLE OUT OF RUNOFF PRIOR TO EXITING THE SITE.

TEMPORARY SLOPE DRAIN (3.15) - TEMPORARY SLOPE DRAINS WILL BE INSTALLED TO TEMPORARILY CONDUCT CONCENTRATED STORMWATER RUNOFF SAFELY DOWN THE FACE OF A CUT OR FILL SLOPE WITHOUT CAUSING EROSION ON OR BELOW THE SLOPE.

OUTLET PROTECTION (3.18) - OUTLET PROTECTION WILL BE INSTALLED AT THE OUTLET ENDS OF ALL CULVERT SYSTEMS TO PREVENT SCOUR AND DOWNSTREAM EROSION.

PERMANENT STABILIZATION:
ALL AREAS ON-SITE WHICH WILL NOT RECEIVE BUILDINGS OR PAVEMENT MUST RECEIVE PERMANENT SEEDING AS SOON AS THOSE AREAS REACH FINAL GRADE. FOR PERMANENT SEEDING SPECIFICATIONS PLEASE SEE SHEET 9 OF 9.

STORMWATER MANAGEMENT:
THE DEVELOPMENT OF THIS PROPERTY WILL RESULT IN A NET INCREASE IN RUNOFF. A PRIVATE STORMWATER MANAGEMENT FACILITY IS PROPOSED WITH RELEASE RATES IN ACCORDANCE WITH ROANOKE COUNTY STORMWATER MANAGEMENT STANDARDS. PLEASE SEE STORMWATER MANAGEMENT CALCULATIONS.

MAINTENANCE:
ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR:

1. THE SEDIMENT TRAP WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. CLEAN OUT AS NECESSARY TO MAINTAIN DESIGN VOLUMES.
2. OUTLET PROTECTION WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED OR REPLACED.
3. THE SILT FENCE WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT BUILDUP REACHES THE MIDWAY POINT OF THE SILT FENCE.
4. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.

CONSTRUCTION SEQUENCE

1. INSTALL THE CONSTRUCTION ENTRANCE, THE DIVERSION DIKES ALONG THE UPPER PORTIONS OF THE CONSTRUCTION SITE, AND THE SILT FENCE ALONG THE LOWER PORTIONS OF THE CONSTRUCTION SITE AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
2. NEXT, INSTALL THE STORM DRAIN CULVERT FROM "V" TO "U" ALONG WITH THE ASSOCIATED INLET AND OUTLET PROTECTION.
3. NEXT, INSTALL SEDIMENT TRAP NUMBER TWO (2) ALONG WITH ITS ASSOCIATED DIVERSION DIKES.
4. INSTALL SEDIMENT TRAPS NUMBER 1, 3, AND 4 ALONG WITH THEIR ASSOCIATED DIVERSION DIKES PRIOR TO GRADING OPERATIONS BEGINNING IN THOSE AREAS.
5. INLET AND OUTLET PROTECTION SHALL BE INSTALLED ALONG WITH THE STORM DRAIN INSTALLATION.
6. ONCE SITE HAS BEEN BROUGHT TO FINAL GRADE, THOSE AREAS THAT ARE NOT TO RECEIVE BUILDINGS OR PAVEMENT SHALL BE SEEDING IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS.
7. ONCE SITE HAS BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY BE REMOVED AND THOSE AREAS RESTABILIZED WITH PERMANENT SEEDING.

NOTE: THE LOCATION OF ALL OFF-SITE FILL AREAS OR BORROW AREAS ASSOCIATED WITH THIS CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY COMMUNITY DEVELOPMENT. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THESE AREAS.

SEE EROSION AND SEDIMENT CONTROL
PLAN APPROVED ON 31 MARCH 2005
WITH ATTACHED TEMPORARY
STREAM CROSSING DETAIL

FOR EROSION AND SEDIMENT
CONTROL PURPOSES ONLY

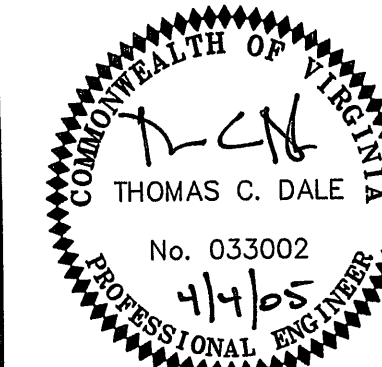


LUMSDEN ASSOCIATES, P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA

4664 BRAMBLETON AVENUE
P.O. BOX 20669
ROANOKE, VIRGINIA 24018

PHONE: (540) 774-4411
FAX: (540) 772-9445
E-MAIL: MAIL@LUMSDENPC.COM

FAITH CHRISTIAN SCHOOL
ROANOKE COUNTY, VIRGINIA



EROSION AND SEDIMENT CONTROL PLAN

PROJECT ARCHITECT

COMMISSION NUMBER

03-082

REVISED

8 MARCH 2005
4 APRIL 2005

DATE

6 JAN. 2005

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