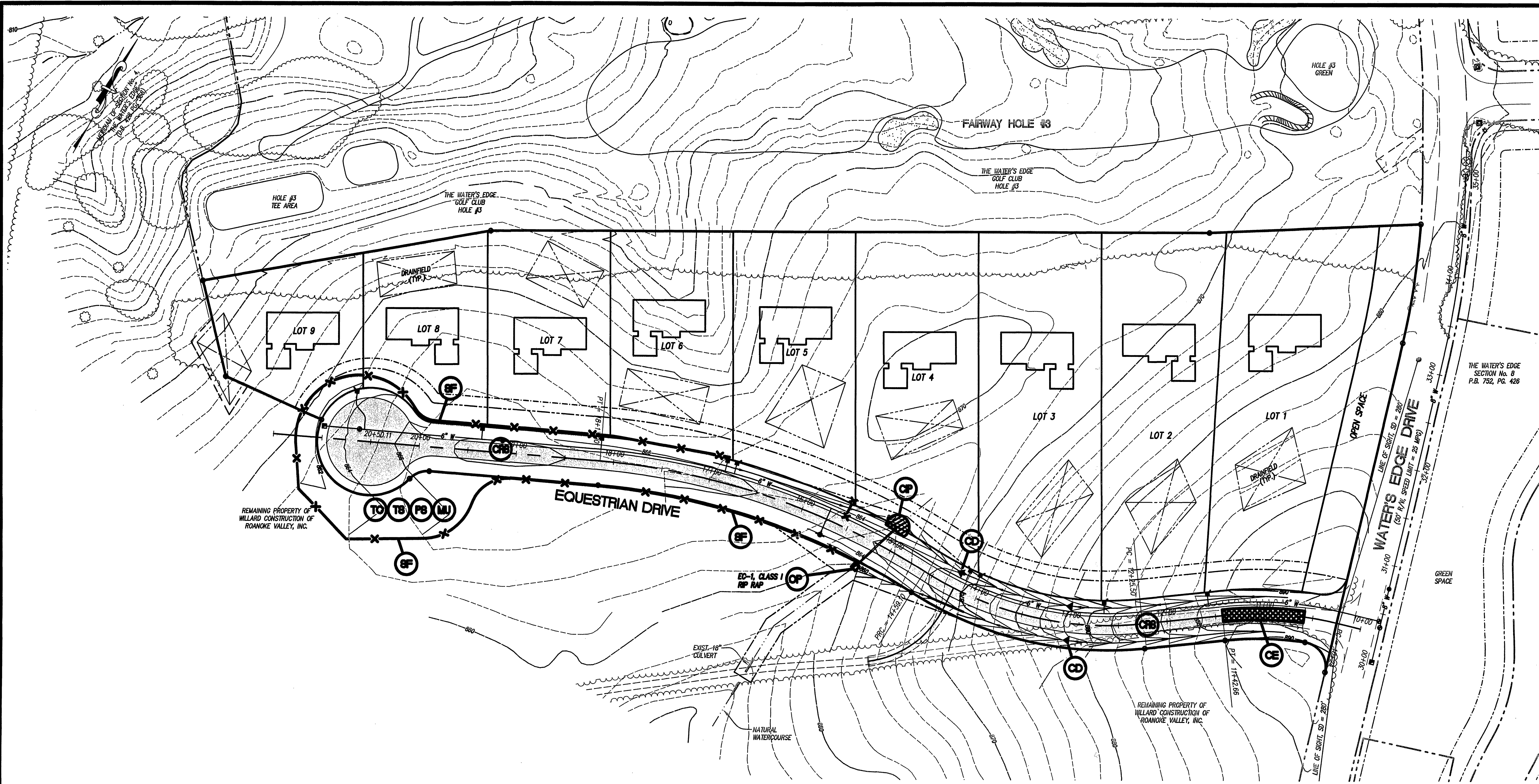


06384comp01-07-ec01.plt



EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF CONSTRUCTION OF THE ROAD, DRAINAGE, AND UTILITIES FOR A NINE (9) LOT RESIDENTIAL SUBDIVISION. TOTAL DISTURBED AREA IS APPROXIMATELY 1.0 ACRES.

EXISTING SITE CONDITIONS
THE SITE IS MOSTLY WOODED WITH MILD SLOPES, BUT THERE IS AN OPEN GRASSY RIDGE AS WELL. SOME DRAINAGE IS DIRECTED TO A SWALE RUNNING NORTH TO SOUTH. OTHER DRAINAGE SHEET FLOWS OFF THE RIDGE IN ALL DIRECTIONS.

ADJACENT AREAS
THIS DEVELOPMENT IS BORDERED TO THE NORTH BY WATER'S EDGE GOLF CLUB, HOLE #3 FAIRWAY, TO THE EAST BY WATER'S EDGE DRIVE, AND TO THE SOUTH AND WEST BY VACANT LAND A PART OF AN EQUESTRIAN FACILITY.

OFFSITE AREAS
NO OFFSITE FILL OR BORROW AREAS ARE ASSOCIATED WITH THIS PROJECT. SHOULD ANY OFFSITE FILL OR BORROW AREAS BECOME NECESSARY A SEPARATE EROSION AND SEDIMENT CONTROL PLAN WITH MEASURES MAY BE REQUIRED BY FRANKLIN COUNTY.

SOILS
SOILS INFORMATION IS BASED ON AN INSPECTION OF THE SOIL SURVEY OF FRANKLIN COUNTY AND HAS NOT BEEN FIELD VERIFIED. THE ONSITE SOILS FALL INTO TWO DIFFERENT UNITS. THE UNITS ARE THE CLIFFORD FINE SANDY LOAM - MAP SYMBOLS 7C (8 TO 15% SLOPES) AND 7D (15 TO 25% SLOPES).

CLIFFORD FINE SANDY LOAM, 8 TO 15% SLOPES (MAP SYMBOL 7C), 15 TO 25% SLOPES (MAP SYMBOL 7D)
THE TYPICAL PROFILE FOR CLIFFORD SOILS IS AS FOLLOWS: 0 TO 9 INCHES - FINE SANDY LOAM, 7 TO 84 INCHES - CLAY LOAM, 54 TO 62 INCHES - CLAY LOAM, 62 TO 82 INCHES - FINE SANDY LOAM. THE SOIL HAS MODERATE EROSION POTENTIAL AND IS WELL DRAINED.

SILT FENCE (3.01) - SILT FENCE WILL BE INSTALLED AT THE LOWER ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.

CULVERT INLET PROTECTION (3.08) - CULVERT INLET PROTECTION SHALL BE INSTALLED TO PREVENT SEDIMENT FROM ENTERING, ACCUMULATING IN AND BEING TRANSFERRED DOWNSTREAM BY THE CULVERT.

OUTLET PROTECTION (3.10) - OUTLET PROTECTION SHALL BE INSTALLED TO PREVENT SCOUR AT THE CULVERT OUTLET.

ROCK CHECK DAMS (3.20) - ROCK CHECK DAMS SHALL BE INSTALLED TO REDUCE THE VELOCITY OF CONCENTRATED STORMWATER FLOWS TO REDUCE EROSION IN DITCHES.

TOPSOILING (3.30) - TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR FUTURE USE. TOPSOIL STOCKPILES SHALL BE PROTECTED BY SILT FENCE INSTALLED ALONG THE DOWNHILL SIDES AROUND THE STOCKPILE. TOPSOIL SHALL BE UNIFORMLY SPREAD OVER DISTURBED AREAS PRIOR TO PERMANENT SEEDING.

TEMPORARY SEEDING (3.31) - TEMPORARY SEEDING SHALL BE APPLIED TO TEMPORARY DIVERSION DIKES, TOPSOIL STOCKPILES, AND ALL AREAS TO BE ROUGH GRADED, BUT NOT FINISHED GRADED DURING THE INITIAL PHASE OF CONSTRUCTION. TEMPORARY SEEDING SHALL BE FAST GERMINATING, TEMPORARY VEGETATION AND INSTALLED IMMEDIATELY FOLLOWING GRADING OR INSTALLATION IF A TEMPORARY MEASURE. SEE ALSO MINIMUM STANDARDS.

PERMANENT SEEDING (3.32) - PERMANENT SEEDING SHALL BE INSTALLED ON ALL DISTURBED AREAS OF THE SITE NOT OTHERWISE STABILIZED.

MULCHING (3.35) - ALL DISTURBED AREAS SHALL BE MULCHED AFTER SEEDING. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE OF FIBER MULCH OVER THE SEEDING AREA.

STORMWATER MANAGEMENT
NO STORMWATER MANAGEMENT IS PROPOSED FOR THIS PROJECT. POST DEVELOPMENT RUNOFF WILL FLOW INTO AN ADEQUATE CHANNEL TO SMITH MOUNTAIN LAKE.

MAINTENANCE
ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. IN PARTICULAR:

CONSTRUCTION SEQUENCE

1. THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER (RLD) SHALL BE NAMED AND THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM DCR. COPIES OF ALL THIS INFORMATION SHALL BE PROVIDED TO FRANKLIN COUNTY.
2. NO OFFSITE BORROW OR FILL AREAS ARE ANTICIPATED WITH THIS DEVELOPMENT OR COVERED WITH THESE DEVELOPMENT PLANS. HOWEVER IF DURING CONSTRUCTION, IT IS DETERMINED THAT THEY ARE REQUIRED, THE LOCATION OF THOSE OFFSITE FILL OR BORROW AREAS SHALL BE PROVIDED TO FRANKLIN COUNTY. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THESE AREAS.
3. INSTALL THE CONSTRUCTION ENTRANCE AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
4. INSTALL SILT FENCE PRIOR TO GRADING OPERATIONS BEGINNING IN THOSE AFFECTED AREAS.
5. INSTALL CULVERT A-B AS GRADING PERMITS WITH CULVERT INLET PROTECTION AND OUTLET PROTECTION.
6. INSTALL CONSTRUCTION ROAD STABILIZATION AS SOON AS THE ROAD IS AT SUBGRADE.
7. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.

CRITICAL AREAS
IT IS CRITICAL FOR THE CONTRACTOR TO PREVENT SEDIMENT FROM BEING TRANSFERRED TO THE WATER'S EDGE GOLF CLUB HOLE #3 FAIRWAY.

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.

CONSTRUCTION ROAD STABILIZATION (3.03) - CONSTRUCTION ROAD STABILIZATION WILL BE TO MINIMIZE EROSION WITHIN THE TEMPORARY CONSTRUCTION ROAD.

1. 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.
2. THE CONSTRUCTION ENTRANCE WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED, OR REPLACED.
3. DIVERSIONS AND STORMWATER CONVEYANCE CHANNELS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP, BREACHES, AND DIKE INTEGRITY. IF DEFICIENCIES IN THE DIVERSIONS OR CHANNELS ARE FOUND, THEY SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.
4. ALL SEEDING AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEED AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.

NO.	TITLE	KEY	SYMBOL
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE	
3.03	CONSTRUCTION ROAD STABILIZATION	CRS	
3.05	SILT FENCE	SF	
3.08	CULVERT INLET PROTECTION	CIP	
3.18	OUTLET PROTECTION	OP	
3.20	ROCK CHECK DAMS	RD	
3.29	SURFACE ROUGHENING	SR	
3.30	TOPSOILING	TS	
3.31	TEMPORARY SEEDING	TP	
3.32	PERMANENT SEEDING	PS	
3.35	MULCHING	MU	

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

4664 BRAMBLETON AVENUE
P.O. BOX 206669
ROANOKE, VIRGINIA 24018

PHONE: (540) 774-4411
FAX: (540) 773-9445
E-MAIL: MAIL@LUMSDENPC.COM

JOHN E. CONNER
John Conner
Lic. No. 042055
6/13/08
PROFESSIONAL ENGINEER

EROSION AND SEDIMENT CONTROL PLAN

SECTION No. 9
THE WATER'S EDGE
PREPARED FOR
WILLARD CONSTRUCTION OF ROANOKE VALLEY, INC.
UNION HALL MAGISTERIAL DISTRICT
FRANKLIN COUNTY, VIRGINIA

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE: JUNE 13, 2008

SCALE: 1" = 50'

COMMISSION NO.: 2006-384

SHEET 7 OF 9

w:\drawings\2006\06384\eng_06384comp01.dwg