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## 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.

**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 (3.02)** - 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 UTILIZED TO CONDUCT CONCENTRATED STORMWATER RUNOFF DOWN STEEP SLOPES TO PREVENT EROSION OF THE SLOPE.

**OUTLET PROTECTION (3.18)** - OUTLET PROTECTION WILL BE INSTALLED TO PREVENT EROSION AND SCOUR AT THE OUTLET ENDS OF CULVERTS.

**ROCK CHECK DAMS (3.20)** - ROCK CHECK DAMS WILL BE INSTALLED TO PREVENT EROSION AND VELOCITY WITHIN DRAINAGE DITCHES.

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

**PERMANENT STABILIZATION**  
ALL DISTURBED AREAS ON SITE MUST RECEIVE PERMANENT SEEDING. FOR PERMANENT SEEDING SPECIFICATIONS PLEASE SEE THE EROSION AND SEDIMENT CONTROL DETAIL SHEET.

## STORMWATER MANAGEMENT

STORMWATER MANAGEMENT FOR THIS DEVELOPMENT IS ACHIEVED THROUGH A PRIVATE, ABOVE GROUND, STORMWATER MANAGEMENT FACILITY.

## CONSTRUCTION SEQUENCE

- CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL BE NAMED AT AND ATTEND THE PRE-CONSTRUCTION MEETING AND PROVIDE A COPY OF HIS RLD CERTIFICATE THEREAT.
- CONTRACTOR SHALL APPLY FOR DEQ LAND DISTURBANCE PERMIT AT LEAST TWO (2) DAYS PRIOR TO LAND DISTURBANCE AND PROVIDE ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT COPY OF SAID PERMIT WITHIN FIVE (5) DAYS OF ISSUANCE.
- INSTALL CONSTRUCTION ENTRANCE AS THE FIRST STEP IN THE CONSTRUCTION PROCESS FOLLOWED BY TEMPORARY DIVERSION DIKES. AS SOON AS TEMPORARY DIVERSION DIKES ARE IN PLACE THE TEMPORARY SEDIMENT TRAPS SHALL BE INSTALLED.
- AREAS TO BE CUT AND FILLED ARE TO BE CLEARED AND GRADED IN PHASES. THIS PHASING WILL BE DONE TO MINIMIZE THE LENGTH OF TIME AREAS ARE SUBJECT TO EROSION. ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS IN THE AFFECTED AREAS.
- INSTALL INLET PROTECTION AND OUTLET PROTECTION ALONG WITH STORM DRAIN CONSTRUCTION. THE TEMPORARY 24" PIPE CONNECTING STRUCTURES A2 AND V2 SHALL BE INSTALLED WITH STRUCTURES A2 AND V2. THE TEMPORARY 24" CONCRETE PIPE SHALL BE REMOVED ONCE THE STORMWATER MANAGEMENT POND AREA IS STABILIZED BY VEGETATION. CULVERT INLET PROTECTION SHALL BE INSTALLED AS SHOWN WHEN THE TEMPORARY 24" PIPE IS REMOVED.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED WITH IMPROVEMENTS OR ESTABLISHED VEGETATION.

## MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BI-WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. ACCUMULATED SEDIMENT AT TRAPPING MEASURES SHALL BE ROUTINELY REMOVED.

ALL DITCHES, SWALES, AND NATURAL WATERCOURSES DOWNSTREAM OF THIS PROJECT SHALL BE FIELD INSPECTED DURING AND AFTER CONSTRUCTION BY THE RLD TO ENSURE COMPLIANCE WITH DCR'S MS-19. IF EROSION OR SCOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTIVE MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND THEN TEMPORARY MEASURES PROPERLY REMOVED.

## EROSION AND SEDIMENT CONTROL NARRATIVE

**PROJECT DESCRIPTION:**  
THIS PROJECT IS LOCATED OFF GOLDEN DRIVE IN ROANOKE COUNTY AND ADJOINING "WEDGWOOD", SECTION NO.1. THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A NEW, 28 UNIT, SINGLE FAMILY DETACHED, RESIDENTIAL DEVELOPMENT. APPROXIMATELY 10.2 ACRES OF LAND WILL BE DISTURBED WITH THIS PROJECT.

**EXISTING SITE CONDITIONS:**  
THE SITE IS RELATIVELY OPEN, GENERALLY MILD SLOPING (2% - 13%), WITH SOME STEEP SLOPE AREAS SOUTHEAST (25% - 47%). VEGETATION IS PRIMARILY OPEN WITH MODERATE BRUSH AND TREES LOCATED AROUND THE CREEK. THE ENTIRE SITE DRAINS INTO AN UNNAMED TRIBUTARY OF GLADE CREEK. THIS DEVELOPMENT WILL NOT ALTER THIS DRAINAGE PATTERN. A HEC-2 FLOOD PLAN ANALYSIS IS INCLUDED WITH THE APPROVED DEVELOPMENT PLANS FOR "WEDGWOOD", SEC. NO.1.

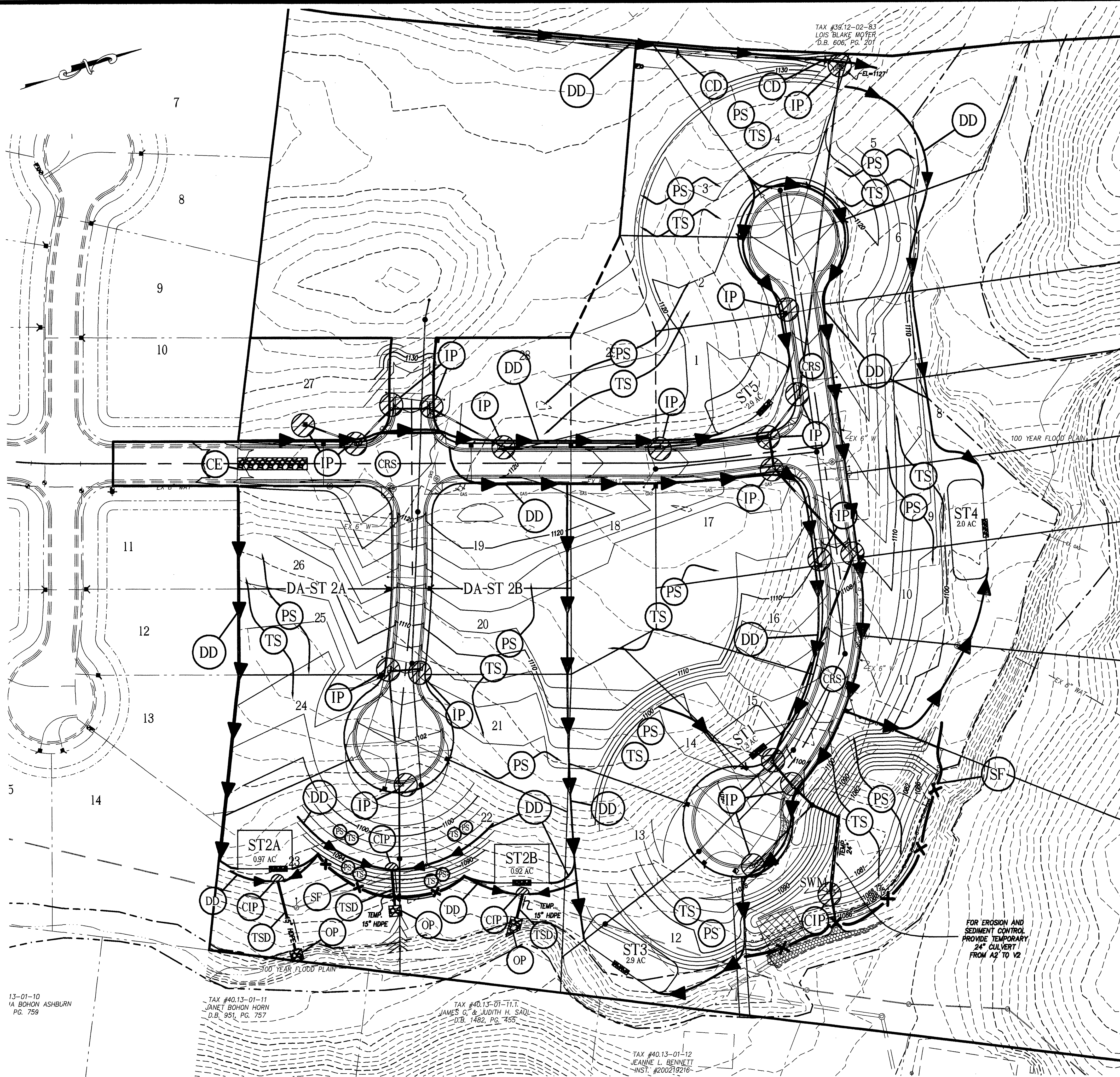
**ADJACENT AREAS:**  
THIS DEVELOPMENT IS BORDERED ON THE NORTH, EAST, AND WEST BY RESIDENTIAL PROPERTY AND TO THE SOUTH BY EAST RUTLAND ROAD.

**OFF-SITE AREAS:**  
THE LOCATION OF ALL OFFSITE BORROW OR FILL 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.

...CONTINUED ON SHEET 13 OF 13.

## LEGEND

ITEM	EXISTING	PROPOSED
Pavement	---	---
Concrete Curb and Gutter	---	---
Storm Drain Line	---	---
Sanitary Sewer Manhole	⊙	⊙
Sanitary Sewer Line	---	---
Waterline	---	---
Light Pole	☆	☆
Overhead Electric Line	---	---
Overhead Telephone Line	---	---
Index Contours	---	---
Intermediate Contours	---	---



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

**LA**

PHONE: (540) 774-4411  
FAX: (540) 772-9445  
P.O. BOX 20669  
ROANOKE, VIRGINIA 24018  
E-MAIL: MAIL@LUMSDENPC.COM

COMMISSIONER OF PROFESSIONAL ENGINEERS  
THOMAS C. DALE  
No. 033002  
12/1/05

**EROSION AND SEDIMENT CONTROL PLAN**

SECTION No. 2  
**WEDGWOOD**  
PREPARED FOR  
**STRAUSS DEVELOPMENT CORPORATION**  
HOLLINS MAGISTERIAL DISTRICT  
ROANOKE COUNTY, VIRGINIA

NO.	DATE	REVISIONS	DESCRIPTION
1	12-7-05	ADDED TEMP. SED. TRAPS 2A & 2B	
2			
3			
4			
5			

DATE: July 27, 2005

SCALE: 1" = 50'

COMMISSION NO.: 05-013

SHEET 12 OF 13

BENCHMARK: PK NAIL SET IN AEP UTILITY POLE #207-002  
STATION 13+84.59, 102.62' RT  
ELEVATION = 1082.93

WVWA ID# 60PHHM