

LAYOUT 1/2/08 INSP 4 \_\_\_\_\_  
INSP 2 1/3/08 INSP 5 \_\_\_\_\_  
INSP 3 1/7/08 INSP 6 \_\_\_\_\_

ISSUE DATE: 11/28/07

APPROVAL DATE: 1/7/08

# PERMIT

P 527923

A 518599

TAX ID # 05447917

**ON-SITE SEWAGE DISPOSAL SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH**

FOGLES IS PERMITTED TO INSTALL ☒ ALTER ☐

ADDRESS: 580 Obrecht PHONE NUMBER: 410-795-5678

SUBDIVISION: Sheppard Manor LOT NUMBER: 13

ADDRESS: 4630 Sheppard Manor Dr. PROPERTY OWNER: Williamsburg Group LLC

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED ☐

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ COMPARTMENTED TANK REQUIRED ☒

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: \_\_\_\_\_

LINEAR FEET OF TRENCH REQUIRED: 188

TRENCHES:	Trench to be 2.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 8.0 feet below original grade. Effective area begins at 5.5 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Start distribution box as shown on plan.
NOTES:	Add a c/o line between house and tank

PLANS APPROVED: Sara Sappington DATE: 10/15/07

NOTE: PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS  
RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM  
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT  
CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

NOT TO SCALE

\* See separate sheet  
for As-Built.

ROAD

**TRENCH/DRAINFIELD DATA**

WIDTH 2' INLET 4' BOTTOM 8'  
NUMBER OF TRENCHES 3  
TOTAL LENGTH 186  
ABSORPTION AREA 342 + SW  
DISTRIBUTION BOX LEVEL Leaky  
DISTRIBUTION BOX BAFFLE Yes  
DISTRIBUTION BOX PORT Yes

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL Yes  
CAPACITY 2000 GAL  
SEAM LOC Top  
TANK LID DEPTH 2'  
BAFFLES Yes  
BAFFLE FILTER ---  
MANHOLE LOC Front/Rear  
6" PORT LOC ---  
WATERTIGHT TEST N/A  
SEPTIC TANK 2 LEVEL N/A  
CAPACITY --- GAL  
SEAM LOC ---  
TANK LID DEPTH ---  
BAFFLES ---  
BAFFLE FILTER ---  
MANHOLE LOC ---  
6" PORT LOC ---  
WATERTIGHT TEST ---

PRE-CONSTRUCTION 1/2/08 Contractor to install a 42', 62', 82' trenches  
on contour on highest part of easement. Keep tanks out of  
INSTALLATION swale. (KW) 1/3/08 open trench inspected on  
top tanks Tank set. OK to continue (KW)  
1/7/08 System complete. Baffles in tank. D box  
leaked. OK to backfill. (KW)

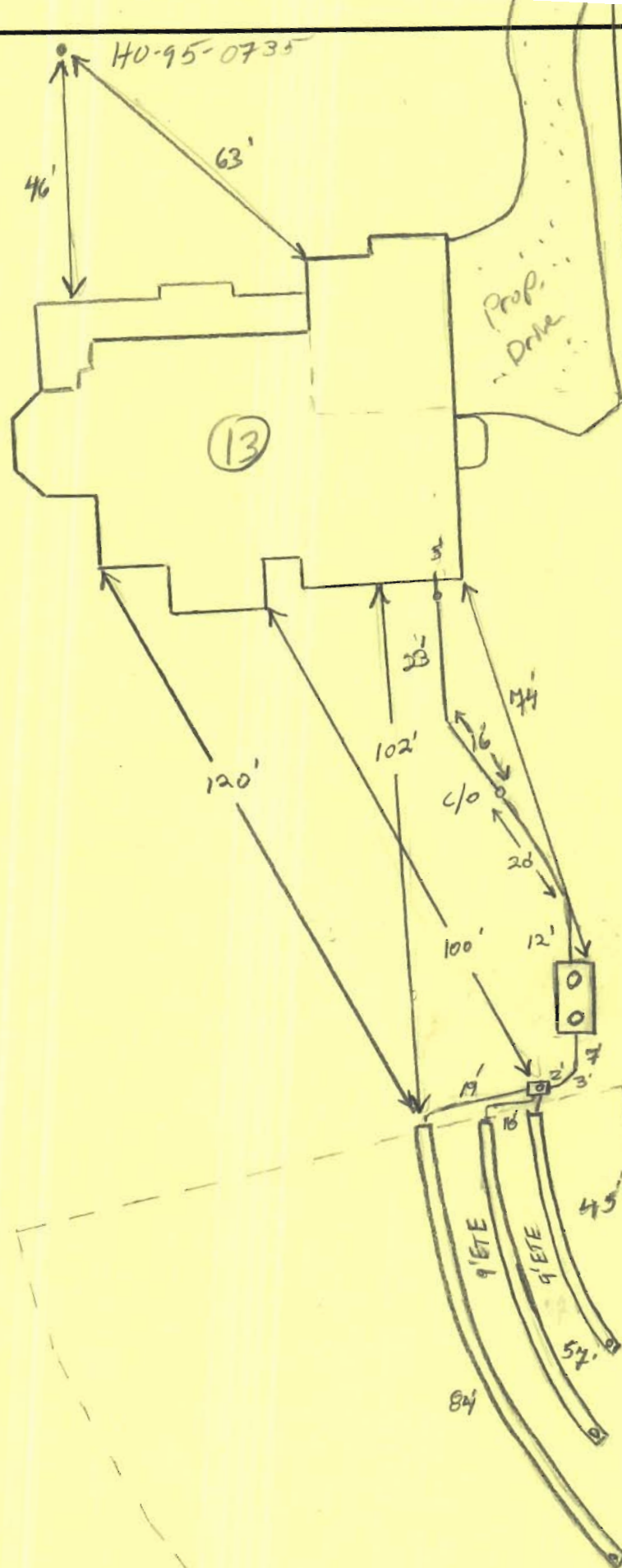
FINAL INSPECTOR

J. L. Wall

DATE OF APPROVAL

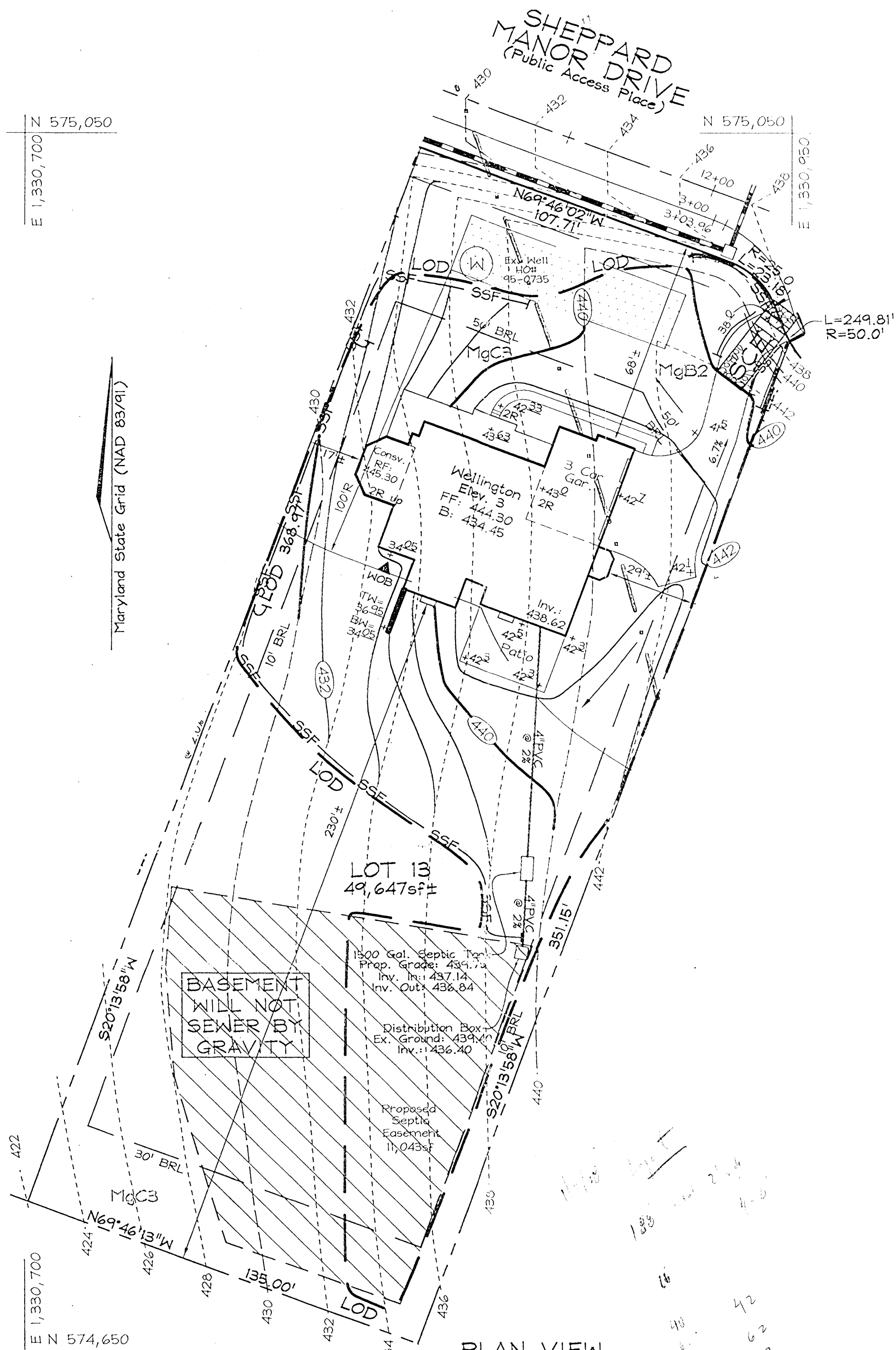
1/27/08





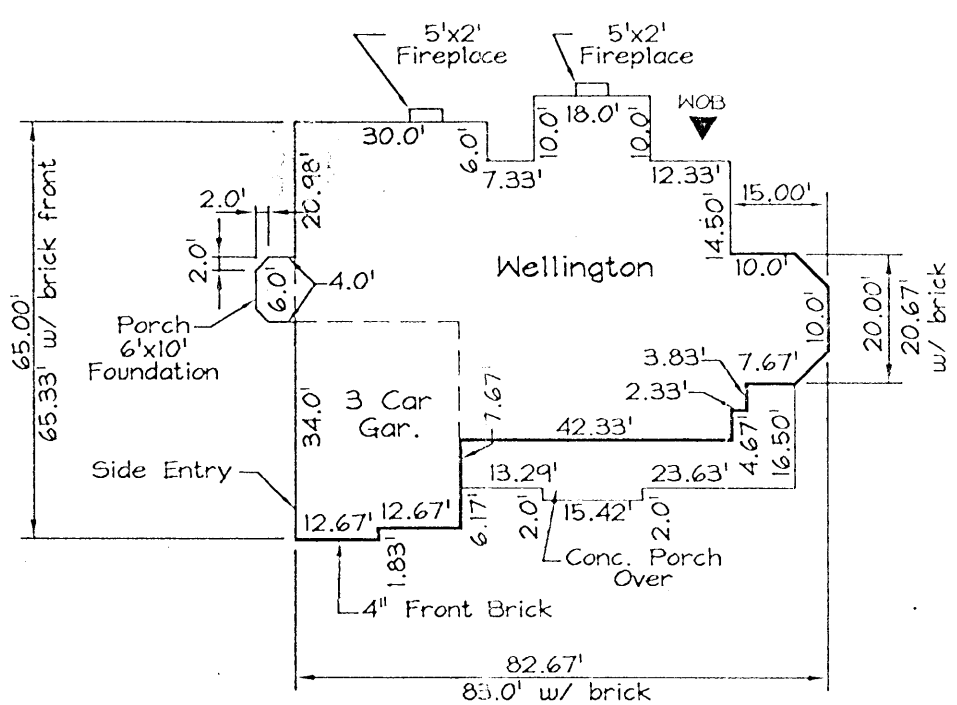






PLAN VIEW  
SCALE: 1"=30'

HOUSE TYPE  
NOT TO SCALE



## PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

**STANDARD PREPARATION:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (42 lbs./1000 s.f.) And 500 lbs. / acre (20.7 lbs./1000 s.f.) of 10-20-20 before seeding. Harrow or disc into upper 3 in. of soil.

**SEEDING:** Apply a mixture of Turf Type Tall fescue (20%) and Hard Fescue (20%) in accordance with seeding dates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding when within proper seeding dates.

**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of unrotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 tons/acre if a mulch anchoring tool is used.) Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a rate of 50 lbs. of wood fiber/100 gal. of water. Synthetic liquid binders such as Terra Tac II, Acrylic DLR (Aqua-Tack), DCA-70, Petroset and other approved equals may be used at rates recommended by the manufacturers.

Permanent Seeding Summary				Fertilizer Rate (10-20-20)		Lime Rate	
No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depth (in.)	N	P205	K20
1	Tall Fescue (80%)	120	3/1-5/15	0.5 in.	40 lb/acre (2.0 lb/1000 s.f.)	70 lb/acre (3.5 lb/1000 s.f.)	20 lb/acre (1.0 lb/1000 s.f.)
2	Hard Fescue (20%)	30	8/15-11/15	0.5 in.	20 lb/acre (1.0 lb/1000 s.f.)	40 lb/acre (2.0 lb/1000 s.f.)	10 lb/acre (0.5 lb/1000 s.f.)

## TEMPORARY SEEDING NOTES

**STANDARD PREPARATION:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (42 lbs./1000 s.f.) And 500 lbs. / acre (20.7 lbs./1000 s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. of soil.

**SEEDING:** Apply the Maryland State Highway approved seed mixture of Barley or Rye plus Fescue in accordance with seeding dates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.

**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of unrotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 tons/acre if a mulch anchoring tool is used.) Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a rate of 50 lbs. of wood fiber/100 gal. of water. Synthetic liquid binders such as Terra Tac II, Acrylic DLR (Aqua-Tack), DCA-70, Petroset and other approved equals may be used at rates recommended by the manufacturers.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

Temporary Seeding Summary				Fertilizer Rate (10-10-10)		Lime Rate	
No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depth (in.)	N	P205	K20
1	Barley or Rye plus Fescue	150 lbs. (3.5 lbs/1000 s.f.)	2/1-12/31	1/4 in.	600 lb/acre (3.0 lb/1000 s.f.)	2 tons/acre (1000 lb/1000 s.f.)	2 tons/acre (1000 lb/1000 s.f.)
2	Barley or Rye plus Fescue	150 lbs. (3.5 lbs/1000 s.f.)	3/15-10/31	1/2 in.	600 lb/acre (3.0 lb/1000 s.f.)	2 tons/acre (1000 lb/1000 s.f.)	2 tons/acre (1000 lb/1000 s.f.)

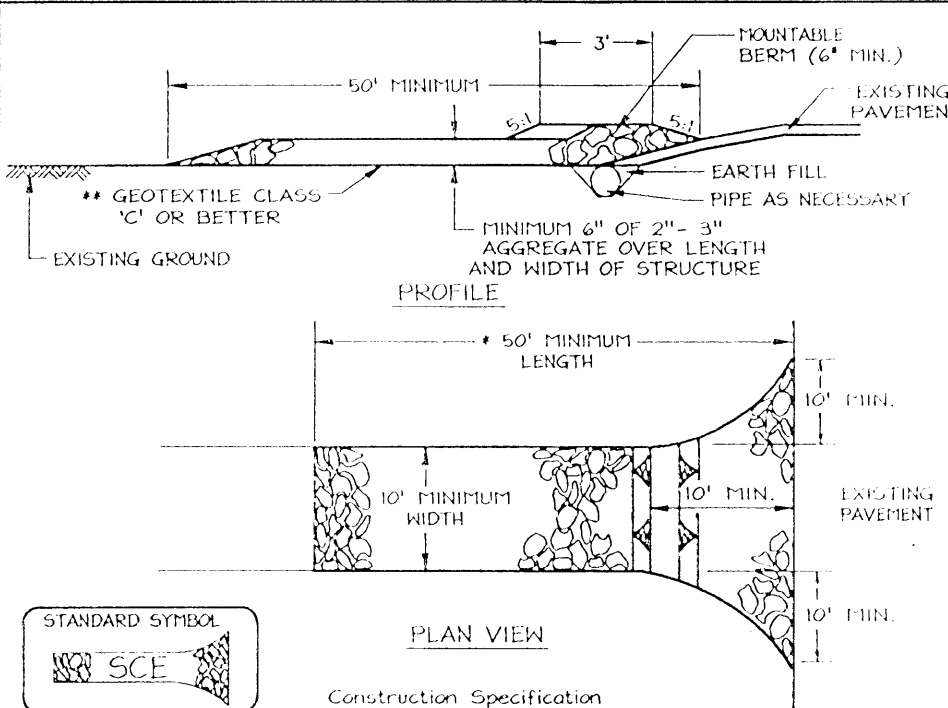
## SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permit, Sediment Control Division prior to the start of any construction (410-319-1955).
- All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, HOWARD COUNTY EROSION CONTROL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto. Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 

Total Area	1.140 Acres
Area Disturbed	0.694 Acres
Area to be seeded or paved	0.646 Acres
Area to be vegetatively stabilized	0.523 Acres
Total Cut	488 CY
Total Fill	1,245 CY

 Offsite waste/borrow area location:
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths, or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- Earthwork quantities are solely for the purpose of calculating fees.
- Contractor to verify all quantities prior to the start of construction.
- To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

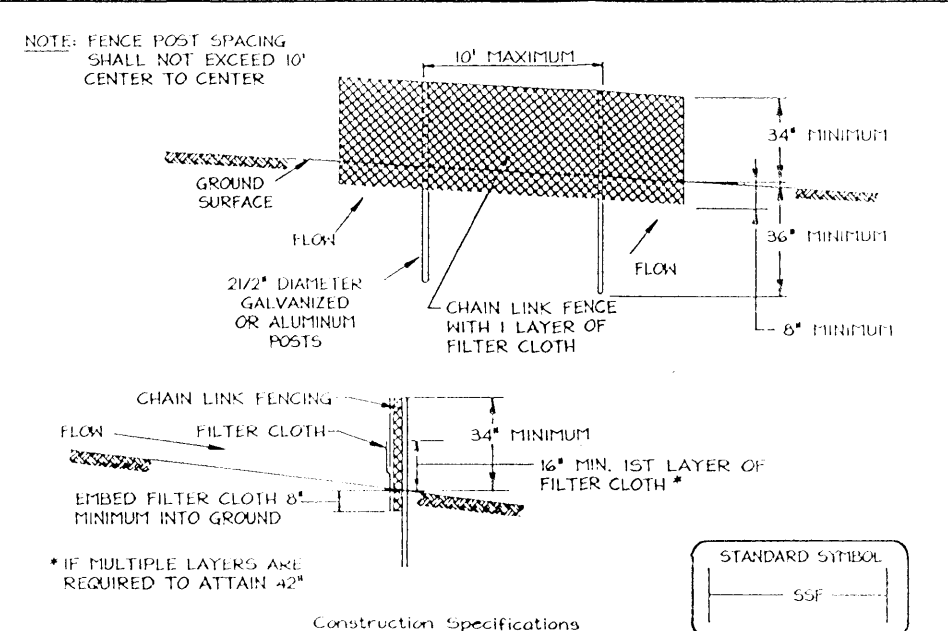
## DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Length - minimum of 50' (+ 30' for a single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipes installed through the stabilized construction entrance shall be protected with a maintainable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey, a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

## DETAIL 33 - SUPER SILT FENCE



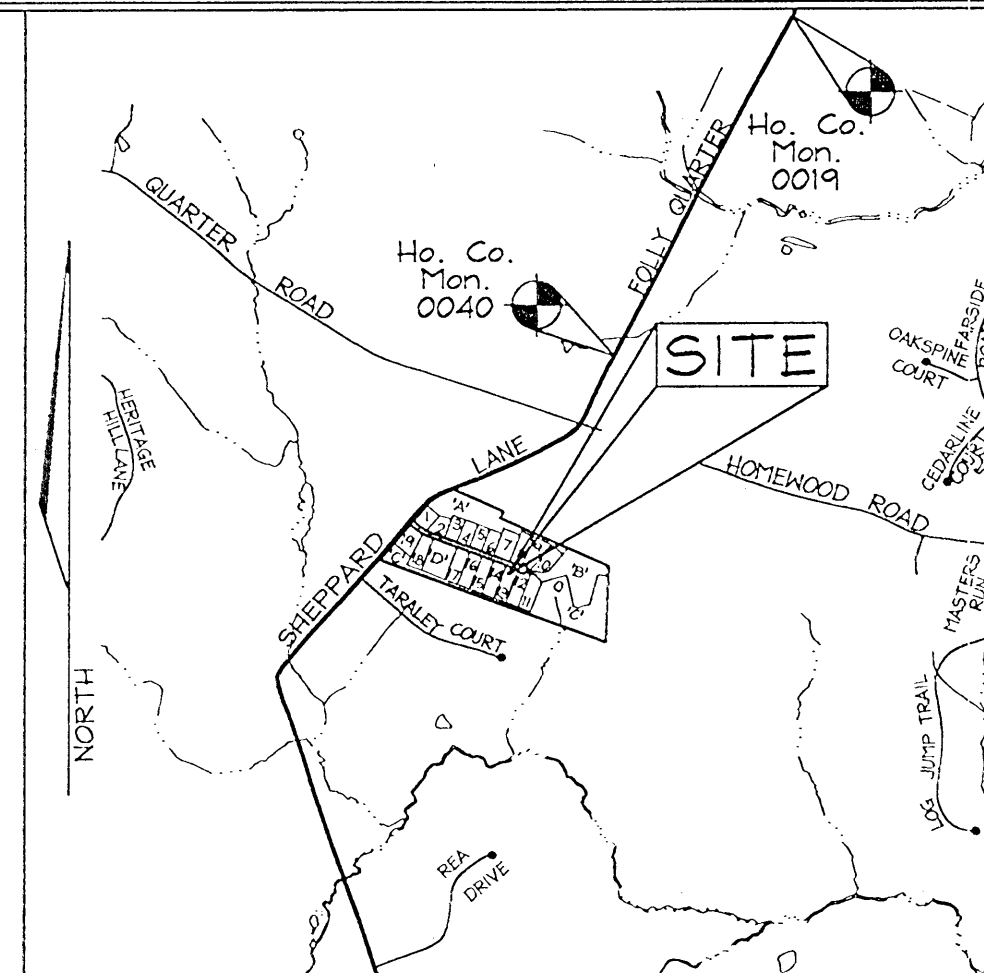
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid-section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and lapped.
- Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lb/in (min.)	Test: FHST 104
Tensile Modulus	20 lb/in (min.)	Test: FHST 104
Flow Rate	0.5 gal/ft Minute (max.)	Test: FHST 322
Filtering Efficiency	75% (min.)	Test: FHST 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

## LEGEND

- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Flow
- Tree Protection Fence
- Existing Trees to Remain
- Super Silt Fence
- Limit of Disturbance
- Soil Boundary



VICINITY MAP  
SCALE: 1"=2000'  
ADC MAP 10 E13, 14 E1

## BENCHMARKS

Sta. 0019	N 176,927.0394	E 406,505.1110	El.: 117.6061 (meters)
Sta. 0040	N 580,468.128	E 1,333,675.518	El.: 385.846 (feet)
	N 175,952.4260	E 405,995.1970	El.: 111.3465 (meters)
	N 577,270.584	E 1,332,002.575	El.: 365.309 (feet)

## GENERAL NOTES

- This property is zoned "RC-PD0" per the 02/02/04 Comprehensive Zoning Plan and the Comp Lite Zoning Regulations Amendments effective 07/28/06.
- Total area of property = 49,647 sq± or 1.140 Acs±
- Public water and private sewer will be used within this site.
- This area designates a private sewage easement, of at least 10,000 sq± as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to grant adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
- The septic fields are located on soil types BrC2, BrC3, MIB2, MIC2, MIC3, MID2 and MIB2 as per the soil survey of Howard County, Soils Map #4.
- On-site topography based on a Field Run Topographic Survey prepared by FSH Associates dated 1/12/04. Off-site and non-critical topography based on Howard County 1998 Aerial Topographic Surveys with five foot contours.
- Spill Material of Septic Trench Excavation shall be placed uphill of trench.
- Private water, and sewer will be used within this site.
- When digging septic trenches contractor shall place excavated material on the uphill side of the trench.

## SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Department of Inspections, License and Permits at (410) 313-1880 at least 24 hours before starting any work.
- Install Stabilized Construction Entrance.
- After receiving permission from the sediment control inspector, rough grade site and begin building construction.
- Construct driveway and finish building construction.
- Final grade site.
- Upon stabilization of all disturbed areas and with the permission of the Sediment Control Inspector, remove all sediment control measures and stabilize any remaining disturbed area.

## OWNER/DEVELOPER

WILLIAMSBURG GROUP LLC  
5485 Harpers Farm Road #200  
Columbia, Maryland 21044-3834  
Telephone: (410) 987-3802  
Fax: (410) 947-4358

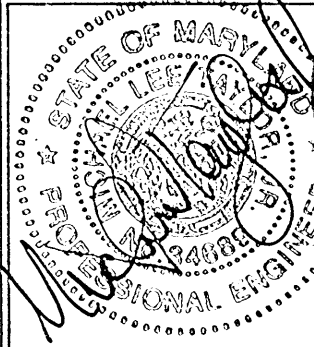
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## PLOT PLAN

SHEPPARD MANOR  
LOT 13

TAX MAP 39 GRIDS 01  
5TH ELECTION DISTRICT

PARCEL 268  
HOWARD COUNTY, MARYLAND



FSH Associates  
Engineers Planners Surveyors

6639 Howard Lane, Elkridge, MD 21075  
Tel: 410-567-5200 Fax: 410-796-1562  
E-mail: info@fshri.com

DESIGN BY: AY  
DRAWN BY: AY  
CHECKED BY: ZYF  
SCALE: As shown  
DATE: Aug. 16, 2007  
W.O. No.: 3160  
SHEET No.: 1 OF 1

## SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Bale silt loam	D
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
ChB2	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
GlD2	Glenelg loam, 15 to 25 percent slopes, moderately eroded	B
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC2	Manor gravelly loam, 8 to 15 percent slopes, severely eroded	B
MIB2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
MIE	Manor loam, 25 to 45 percent slopes	B

## PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #34689, Expiration Date: 7/08/2009.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
8/23/07  
DATE  
8/23/07  
DATE

ENGINEERS CERTIFICATE  
"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
8/23/07  
DATE  
8/23/07  
DATE

DEVELOPER'S CERTIFICATE  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AGREE TO SUBMIT TO AN ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
8-22-07  
DATE  
8-22-07  
DATE