

LAYOUT 10/16/07 INSP 4 10/18/07
INSP 2 10/17/07 INSP 5 10/19/07
INSP 3 10/17/07 INSP 6 _____

ISSUE DATE: 10/10/07

P 527852

APPROVAL DATE: 1/7/08 (KW)

A 526241

PERMIT

TAX ID # 03301117

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

John Gaske IS PERMITTED TO INSTALL ALTER

ADDRESS: PO Box 1247 SYKESVILLE 21784 PHONE NUMBER: 443-463-2754

SUBDIVISION: NELSON PROPERTY - (FORMERLY WEISENSEL) LOT NUMBER: 2-A

ADDRESS: 12384 HOWARD LODGE DR PROPERTY OWNER: GREG NELSON

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

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: _____

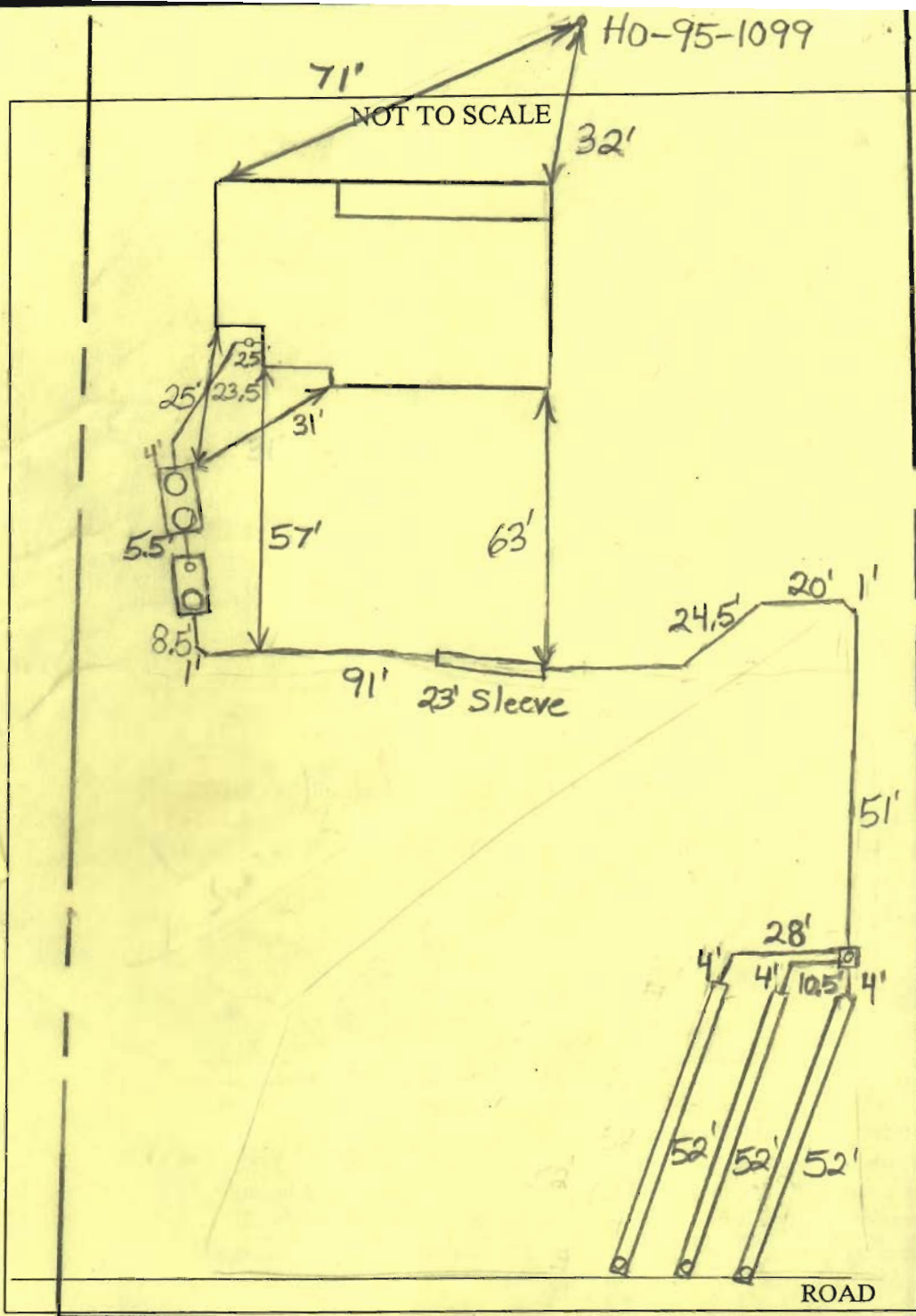
LINEAR FEET OF TRENCH REQUIRED: 155

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 6.0 feet below original grade. Effective area begins at 4.0 feet below original grade. 3.0 feet of stone below distribution pipe.
LOCATION:	Install as directed by HCHD at the pre-construction layout inspection. (3) 50+ trenches are recommended in the highest portion of the easement w/ distribution box near where shown on the approved permit plan (middle)
NOTES:	Pump line to be sleeved 12 feet on either side (24ft total) of the swale (drainage & utility easement). Do not put septic tanks in swale

PLANS APPROVED: Gabriel Creighton DATE: 7/25/07

- 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



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	6
NUMBER OF TRENCHES		3
TOTAL LENGTH		156'
ABSORPTION AREA		468 + Sidewall
DISTRIBUTION BOX LEVEL		Yes
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'-3'
BAFFLES	Yes <i>Babylon</i>
BAFFLE FILTER	No <i>2-Comp.</i>
MANHOLE LOC	Front + Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	Yes <i>Babylon</i>
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	0.5-1.5'
BAFFLES	Front
BAFFLE FILTER	No
MANHOLE LOC	Rear
6" PORT LOC	Front
WATERTIGHT TEST	No

PRE-CONSTRUCTION

10/16/07 Keep tanks 20' from house and out of swale, place D box @ highest area, start of first trench.

Install 3x 52' trenches on contour. Run away from house. (KW)
 10/17/07 Tanks set. (BB) 10/17/07 Tanks set. (BB) 10/18/07
 INSTALLATION: House connection made. Two trenches done. 10/18/07
 10/19/07 System finished O.K. to backfill. Need pump and alarm test. (BB) 1/7/08 P/A test good. Need to have pump set on block. (KW) 1/7/08 Block in place under pump.
 Sys. complete.

FINAL INSPECTOR

J. Wolf

DATE OF APPROVAL

1/7/08

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John L. Nelson #2446 DATE: 7/10/07
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY REQUIREMENTS, PERMITS, ORDINANCES, REGULATIONS, AND STANDARDS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE BEEN ADVISED BY THE DISTRICT THAT THIS PLAN IS IN ACCORDANCE WITH THE DISTRICT'S REQUIREMENTS. I HAVE BEEN ADVISED BY THE DISTRICT THAT THIS PLAN IS IN ACCORDANCE WITH THE DISTRICT'S REQUIREMENTS. I HAVE BEEN ADVISED BY THE DISTRICT THAT THIS PLAN IS IN ACCORDANCE WITH THE DISTRICT'S REQUIREMENTS.

John Nelson DATE: 7/10/07
 SIGNATURE OF DEVELOPER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John Nelson DATE: 7/10/07
 SIGNATURE OF REVIEWER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John Nelson DATE: 7/10/07
 SIGNATURE OF REVIEWER DATE

STANDARDS AND SPECIFICATIONS FOR TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the soil survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the following:
 1. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, silty loam, or other soil type approved by the appropriate local authority. Residue of topsoil shall not be a mixture of increasing sand, silt, clay, coarse fragments, gravel, silt, pebbles, or other materials larger than 1/4" in diameter.
 2. Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutgrass, poison ivy, thistle, or others as specified.
 3. Where the subsoil is either highly acidic or composed of heavy clay, ground limestone shall be applied at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
 4. For sites having disturbed areas under 5 acres:
 a) Place topsoil (if required) and apply soil amendments as specified in 2.0.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
 b) For sites having disturbed areas over 5 acres:
 1. On soil testing Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 a) pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 b) Organic content of topsoil shall be not less than 1.5 percent by weight.
 c) Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 d) No soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min) to permit dissipation of phytotoxic materials.
 2. Place topsoil (if required) and apply soil amendments as specified in 2.0.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
 3. Topsoil Application
 a) When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and drains.
 b. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"-6" higher in elevation.
 c. Topsoil shall be uniformly distributed in a 4"-6" layer and lightly compacted to a minimum thickness of 4". Topsoiling shall be conducted in such a manner that sodding or seeding can proceed with a minimum of additional soil.
 d. Preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 e. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and needed preparation.
 VI. Alternative for Permanent Seeding - Instead of applying the full amount of lime and commercial fertilizer, composted eldage and amendments may be applied as specified below.
 1. Composted Sledge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 a) Composted sledge shall be supplied by or originate from a person or persons that are permitted (in the lines of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 b) Composted sledge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.5 percent potassium and have a pH of 7.0 to 8.0. If compost sledge does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 c) Composted sledge shall be applied at a rate of 1 ton/1,000 square feet.
 2. Composted sledge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

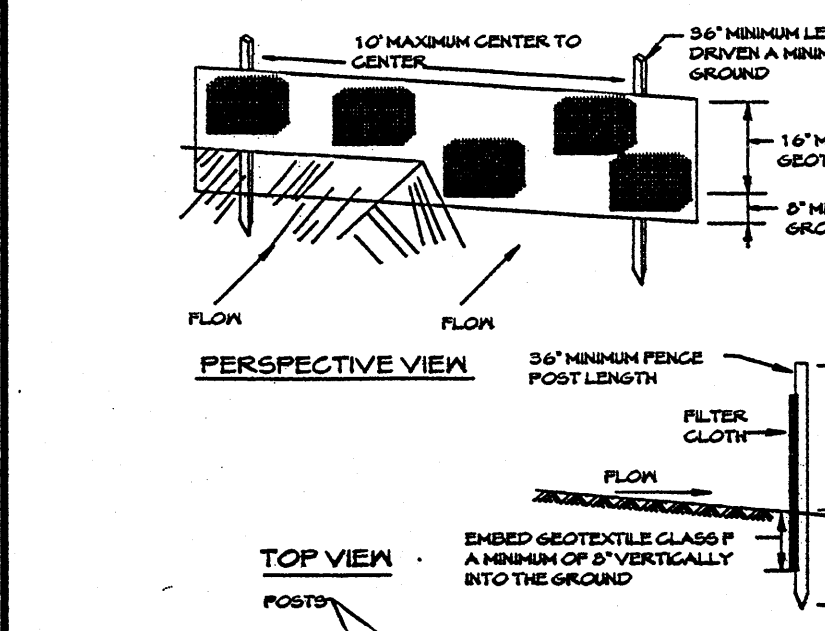
SEPTIC SYSTEM NOTES

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT APPROVAL HAS A TOTAL AREA OF 10,145 SQUARE FEET AND AVERAGE PERCOLATION TIME OF 18 MINUTES.
 2. PROPOSED 1500 GALLON SEPTIC TANK.
 3. A. INVERT ELEVATION 524.53
 B. BASEMENT ELEVATION 524.53
 C. INVERT OF SEPTIC SYSTEM AT HOUSE 522.5
 D. INVERT AT SEPTIC TANK 522.0
 E. INVERT AT SEPTIC TANK 523.1
 F. PROPOSED GRADE OVER SEPTIC TANK 524.0
 G. INVERT AT DISTRIBUTION BOX 523.3
 H. EXISTING GROUND OVER DISTRIBUTION BOX 525.0
 I. INVERT AT DISTRIBUTION BOX 523.3
 J. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
 NOTE: BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STARTUP.

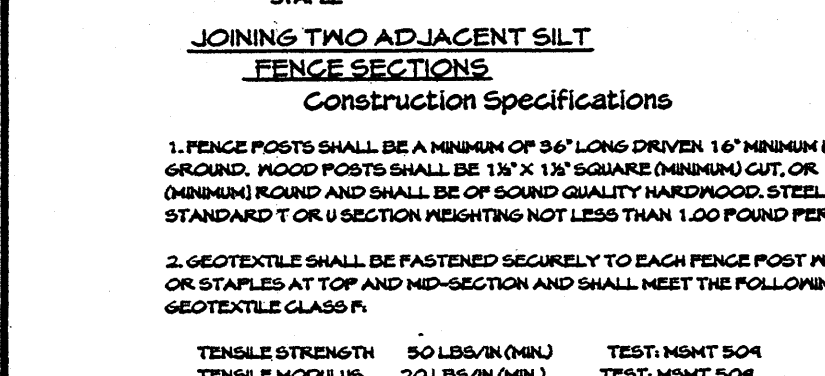
Standard Sediment Control Notes

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (3-1-1855).
 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
 3. Following initial soil disturbance or re-disturbance, 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, by 14 days for all other disturbed or graded areas on the project site.
 4. All sediment traps/basins shall be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1444 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, for permanent seeding (Sec. 5.1), sod (Sec. 5.4), temporary seeding (Sec. 5.0) and mulching (Sec. 5.2). Temporary stabilization with mulch can only be done until permanent seeding dates do not allow for proper germination and establishment of grasses.
 6. 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.
 7. Site Analysis:
 Total Area of Site: 1,065 AC.
 Area Disturbed: 2,024 AC / 3,450 S.F.
 Area to be reseeded: 2,024 AC / 3,420 S.F.
 Area to be vegetatively stabilized: 4,134 AC.
 Total Cut: 500 CY.
 Total Fill: 500 CY.
 Offsite waste/borrow area location
 8. Any sediment control practice, which is disturbed by grading activity for placement of utilities, shall be repaired or replaced as soon as possible.
 9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
 10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be required prior to 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 final approval by the inspection agency is issued.
 11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each workday, whichever is shorter.

DETAIL 22 - SILT FENCE



JOINING TWO ADJACENT SILT FENCE SECTIONS



Construction Specifications

1. FENCE POSTS SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH NINE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
 TENSILE STRENGTH 50 LBS/IN (MIN) TEST HEIGHT 504
 TENSILE MODULUS 20 LBS/IN (MIN) TEST HEIGHT 504
 FLOW RATE 0.5 GAL/FT²/MINUTE (MAX) TEST HEIGHT 522
 FILTERING EFFICIENCY 15% (MIN) TEST HEIGHT 522

2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH NINE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
 TENSILE STRENGTH 50 LBS/IN (MIN) TEST HEIGHT 504
 TENSILE MODULUS 20 LBS/IN (MIN) TEST HEIGHT 504
 FLOW RATE 0.5 GAL/FT²/MINUTE (MAX) TEST HEIGHT 522
 FILTERING EFFICIENCY 15% (MIN) TEST HEIGHT 522

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.

4. SILT FENCE SHALL BE INSPECTED AFTER EACH HAND-PAID EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.

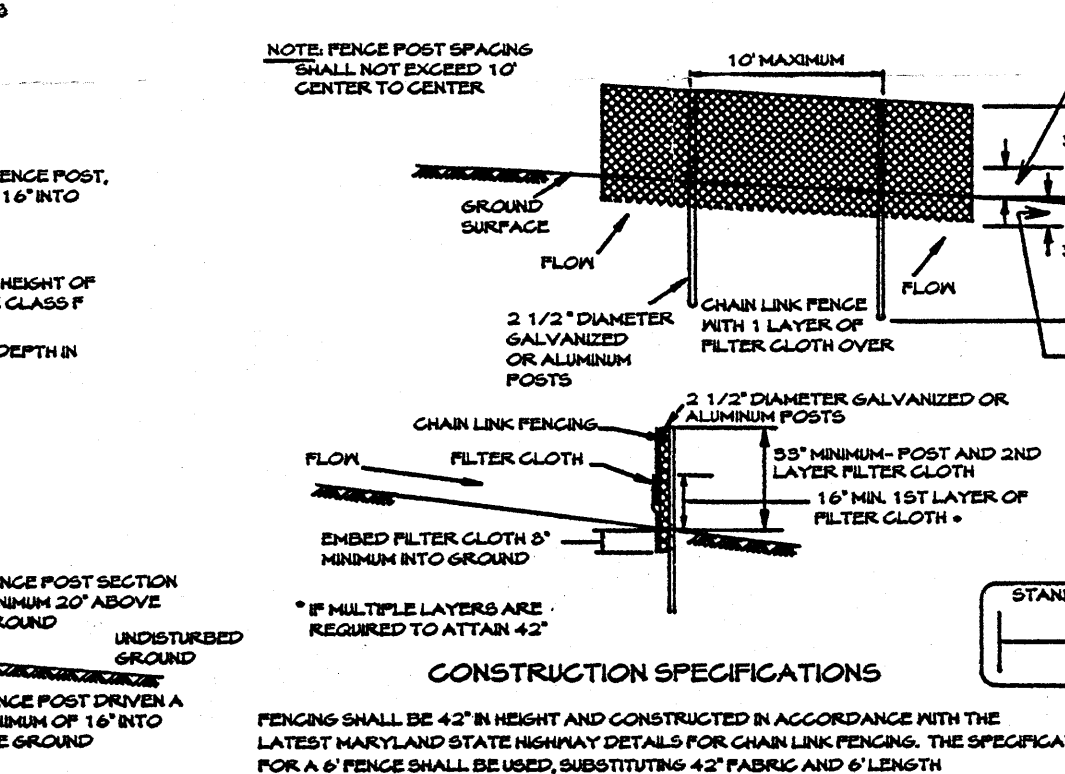
Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	1,25 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	40 feet	250 feet
3:1 to 2:1	20 feet	125 feet

NOTE: IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (BADA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED.

OWNER & DEVELOPER
 GREGORY S. & ELIZABETH ANN NELSON
 1240 HOWARD LODGE DRIVE
 SYKESVILLE, MD. 21784-5420

DETAIL 93 - SUPER SILT FENCE



Construction Specifications

1. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
 2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH NINE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
 TENSILE STRENGTH 50 LBS/IN (MIN) TEST HEIGHT 504
 TENSILE MODULUS 20 LBS/IN (MIN) TEST HEIGHT 504
 FLOW RATE 0.5 GAL/FT²/MINUTE (MAX) TEST HEIGHT 522
 FILTERING EFFICIENCY 15% (MIN) TEST HEIGHT 522

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.
 4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 6" INTO THE GROUND.
 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SALT BUILDUPS REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE, OR WHEN SALT REACHES 50% OF FENCE HEIGHT.
 7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH NINE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
 TENSILE STRENGTH 50 LBS/IN (MIN) TEST HEIGHT 504
 TENSILE MODULUS 20 LBS/IN (MIN) TEST HEIGHT 504
 FLOW RATE 0.5 GAL/FT²/MINUTE (MAX) TEST HEIGHT 522
 FILTERING EFFICIENCY 15% (MIN) TEST HEIGHT 522

DESIGN CRITERIA

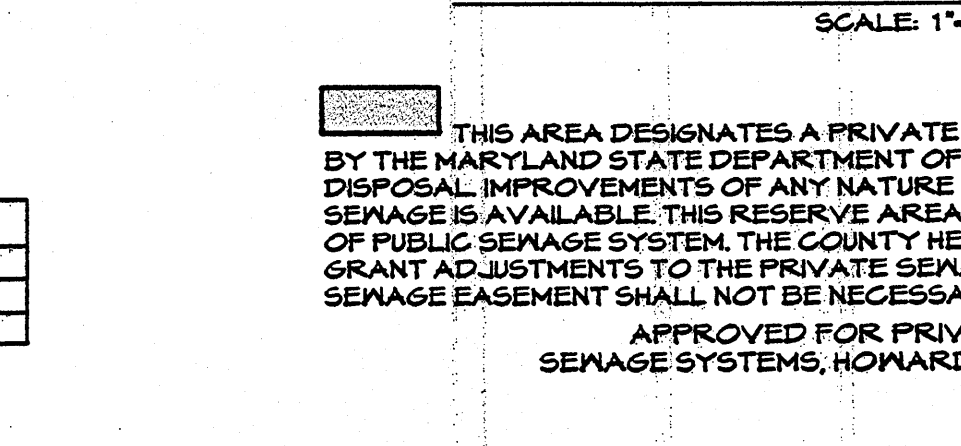
SLOPE	SLOPE STEEPNESS	SLOPE LENGTH (MAXIMUM)	SILT FENCE LENGTH (MAXIMUM)
0 - 10%	0 - 10:1	UNLIMITED	UNLIMITED
10 - 20%	10:1 - 5:1	200 FEET	1,500 FEET
20 - 35%	5:1 - 3:1	100 FEET	1,000 FEET
35 - 50%	3:1 - 2:1	100 FEET	500 FEET
50% +	2:1 +	50 FEET	250 FEET

SOILS DATA

SOIL SYMBOL	SOIL SERIES	SOIL HSG
GmB	GLENVILLE	B
GgB	GLENELG LOAM	B

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

HOUSE GRADING AND SEPTIC LAYOUT



THIS AREA DESIGNATES A PRIVATE SEPTIC RESERVE AREA OF 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS RESERVE AREA SHALL BECOME NULL AND VOID UPON CONNECTION OF PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEPTIC RESERVE AREA. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

GENERAL NOTES

1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 2. THERE ARE NO OTHER EXISTING WELLS AND/OR SEPTIC AREAS WITHIN 100 FEET OF THIS PROPERTY, FROM FIELD INSPECTION BY CLSI INC.
 3. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
 4. THE EXISTING WELL(S) SHOWN ON THIS PLAN IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER EX-HO-45. THIS WELL HAS BEEN FIELD LOCATED BY CARROLL AND SERVICES INC., PROFESSIONAL LAND SURVEYOR(S) AND IS ACCURATELY SHOWN.
 5. ALL EXISTING TOPO ELEVATIONS SHOWN ON THIS PLAN IDENTIFIED WITH FIELD RUN SURVEY PREPARED BY CLSI, INC. AND ALSO HOWARD COUNTY 2004 TOPOGRAPHY MAP # THE HORIZONTAL DATUM IS THE MARYLAND COORDINATE SYSTEM N.A.D. 1983 AND VERTICAL DATUM IS BASED ON N.A.V.D. 1988.
 6. *ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.*
 7. STORMWATER MANAGEMENT IS MAINTAINED BECAUSE THE TOTAL IMPERVIOUS AREA OF 3,420 S.F. IS IN ACCORDANCE WITH M.D.E. AND HOWARD COUNTY REQUIREMENTS.
 8. THE SITE IS ZONED 'RR' DISTRICT.

LEGEND

- DENOTES APPROVED PERC HOLE LOCATIONS
- ▲ DENOTES EXISTING WELL LOCATION
- ▭ DENOTES STABILIZED CONSTRUCTION ENTRANCE
- DENOTES FLOW DIRECTION
- DENOTES EXISTING CONTOURS
- SF — DENOTES SILT FENCE
- SF — DENOTES SUPER SILT FENCE
- L.O.D. --- DENOTES LIMIT OF DISTURBANCE
- ▭▭▭ DENOTES 25% SLOPES
- G.M.B. --- DENOTES SOIL LINES

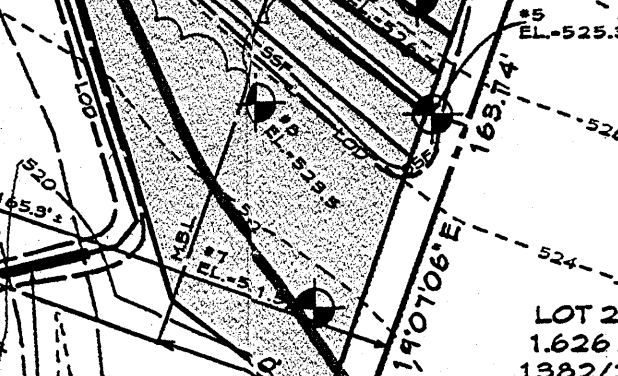
PUMP CHAMBER NOTES

1. PUMP CHAMBER SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT NO.
 2. PROPOSED 1500 GALLON CHAMBER
 3. INVERT OUT OF PUMP CHAMBER
 4. PROPOSED GRADE OVER PUMP CHAMBER

NOTE: TOTAL PROPOSED IMPERVIOUS AREA INCLUDING DRIVEWAY, HOUSE ROOF TOPS = 3,420 S.F.

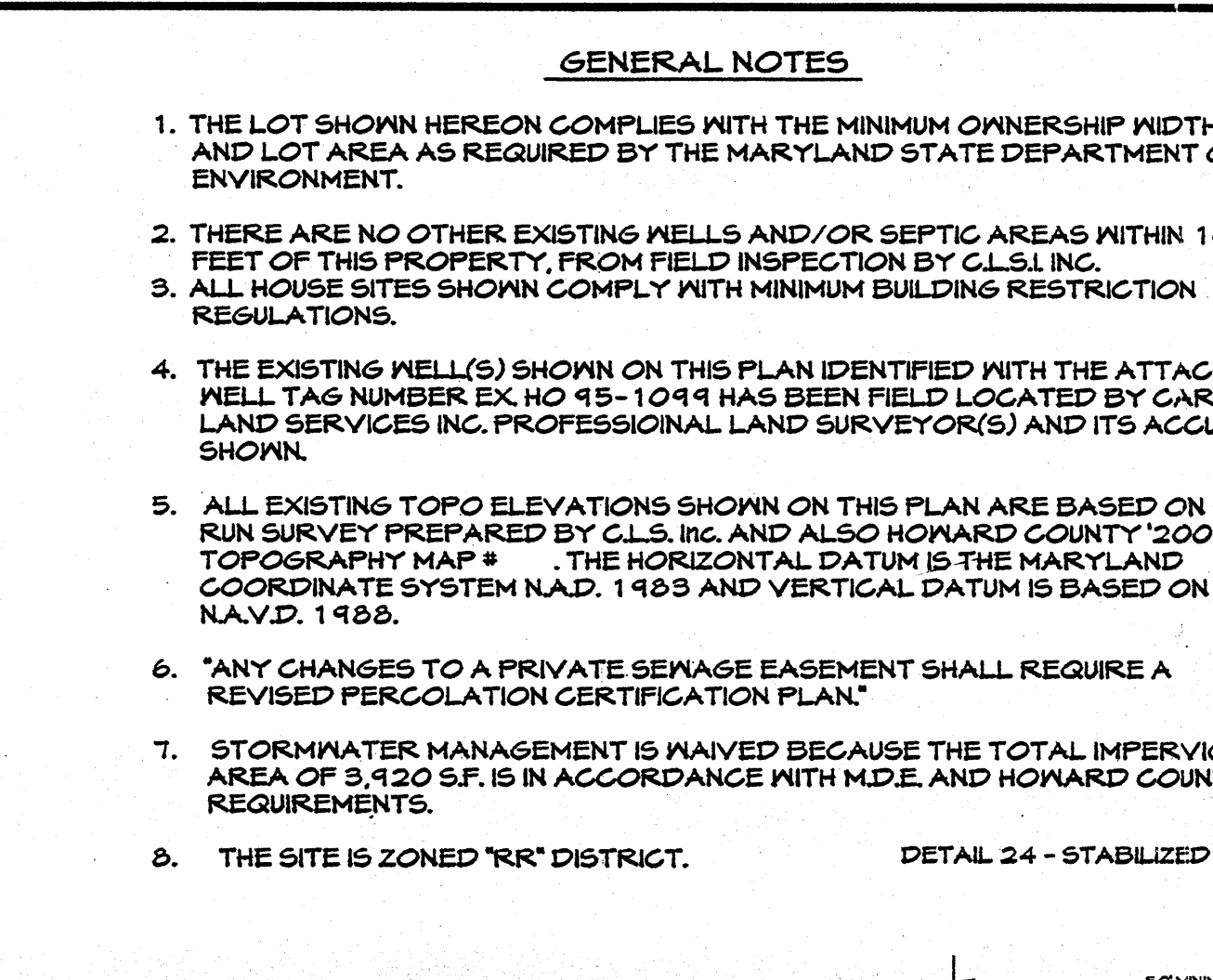
L.O.D. - DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 21,950 S.F.

HOUSE DETAIL

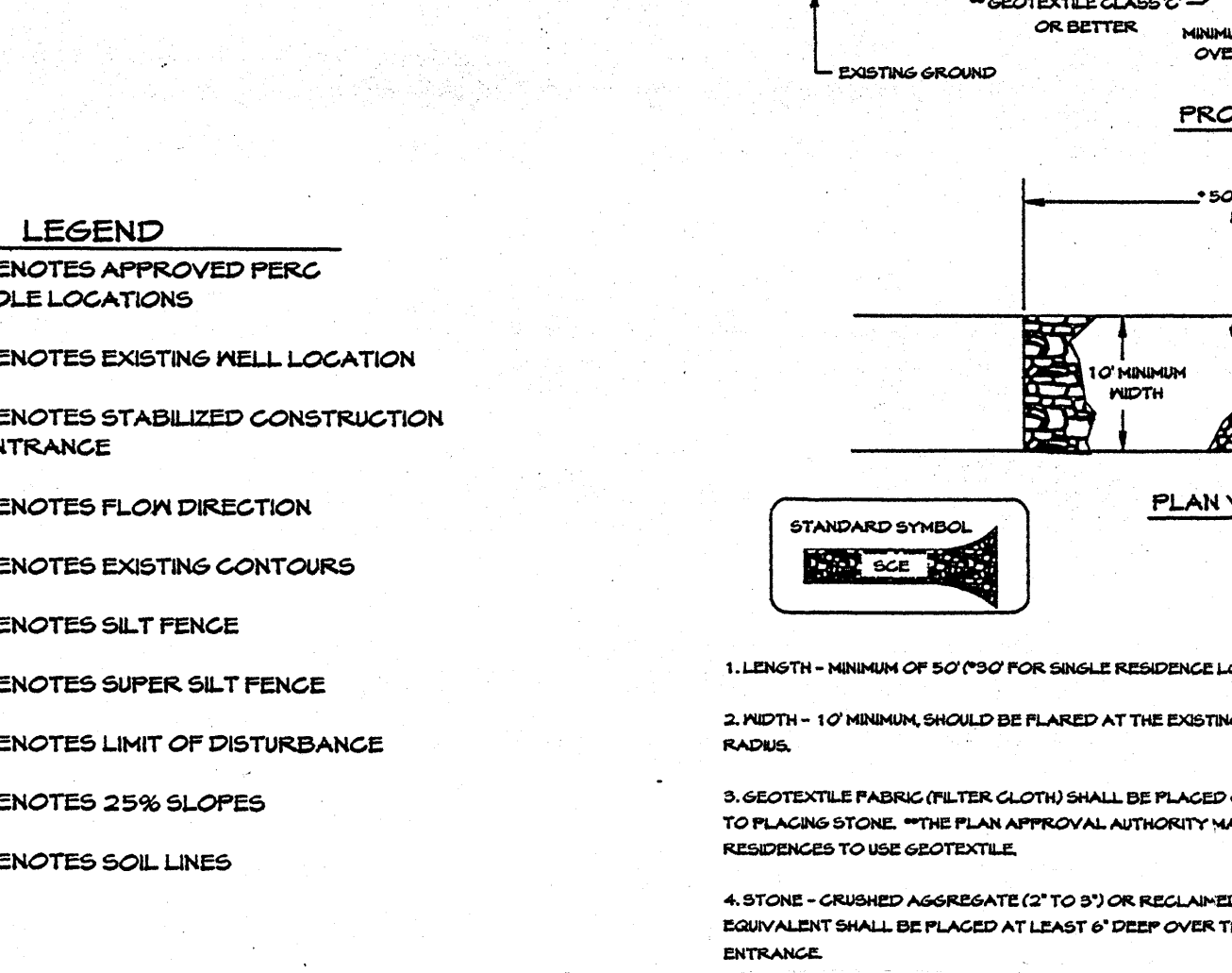


SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (1 DAY)
3. PERFORM NECESSARY GRADING AND STABILIZE THE SITE. BUILD HOUSE (6 MOS.)
4. AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS. (2 DAYS)



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT TERM PERMANENT COVER IS NEEDED.
 SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DRIVING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
 SOIL AMENDMENTS IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING GENERALLY:
 1. PREPARED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. NARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 WATER-SOLUBLE FERTILIZER (14 LBS./1000 SQ.FT.)
 2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (28 LBS./1000 SQ.FT.) BEFORE SEEDING. NARROW OR DISK INTO UPPER THREE INCHES OF SOIL.
 SEEDING - FOR PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. PER ACRE OF TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF PERENNIAL LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 23, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELLS-ANGLED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOLO OPTION (2) - SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TON/ACRE WELLS-ANGLED STRAW.
 MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNKNOTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR IMMEDIATELY AFTER APPLICATION USING A MULCH ANCHORING TOOL OR 3 1/2 GALLONS PER ACRE (9 GAL./1000 SQ.FT.) OF ENHANCED ASPHALT ON FLAT AREAS, ON SLOPES OF 5 FEET OR HIGHER, USE 3-4 GALLONS PER ACRE (6 GAL./1000 SQ.FT.) FOR ANCHORING.
 MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

PERCOLATION CERTIFICATION PLAN AND SITE PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT

LOT 2A
 # HOWARD LODGE DRIVE
NELSON PROPERTY
 3TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
 DEED REF. 1382/280
 MAP-9 GRID-12 PARCEL-306

PERCOLATION TEST RESULTS, A- 52624 1

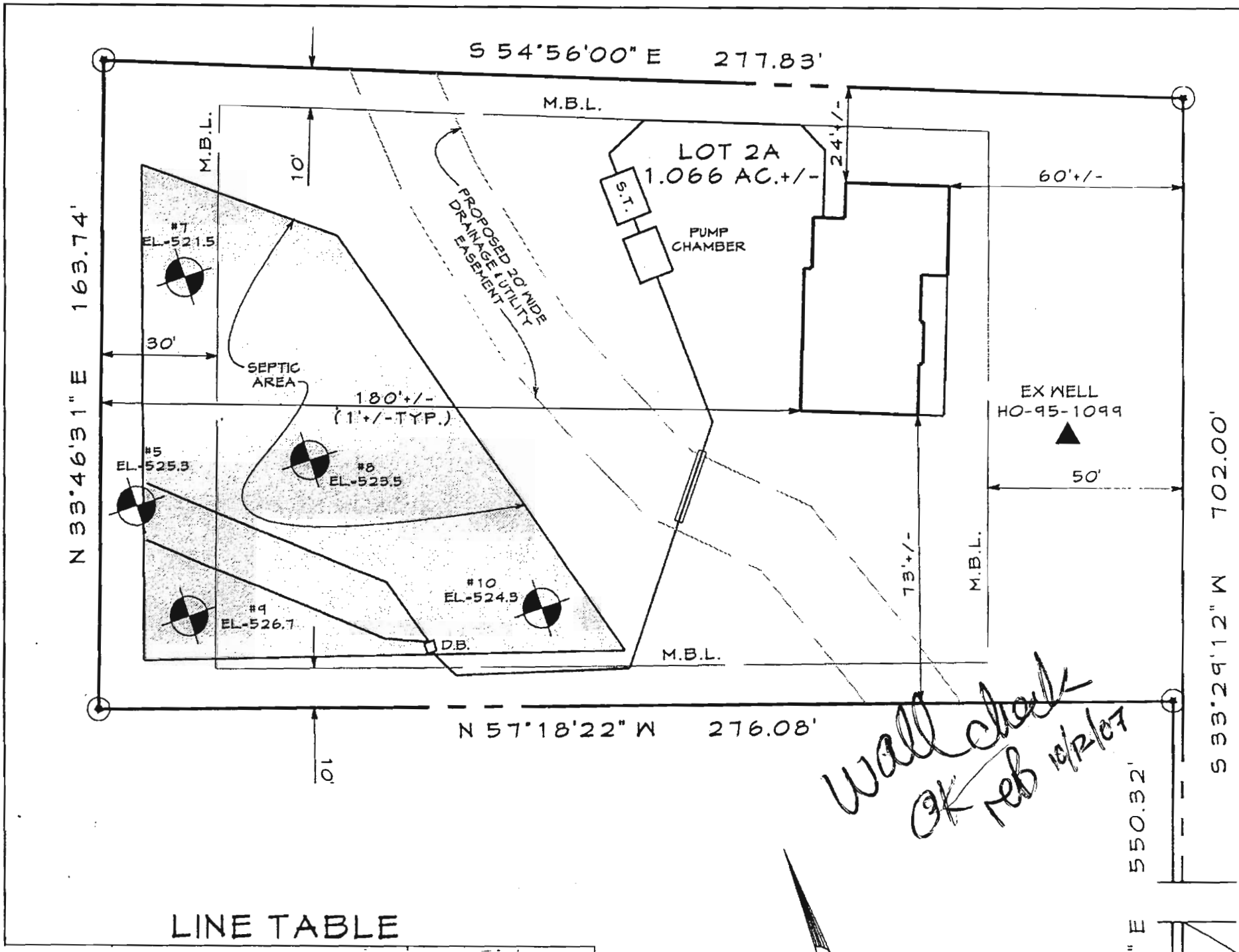
DATE	REVISIONS

CLSI
 Civil Engineering & Environmental Consultants
 www.clsi-civileng.com

FREDERICK OFFICE:
 8445 Progress Drive, Suite 88
 Frederick, MD 21703-4879
 (301) 662-1759
 FAX (301) 662-8004

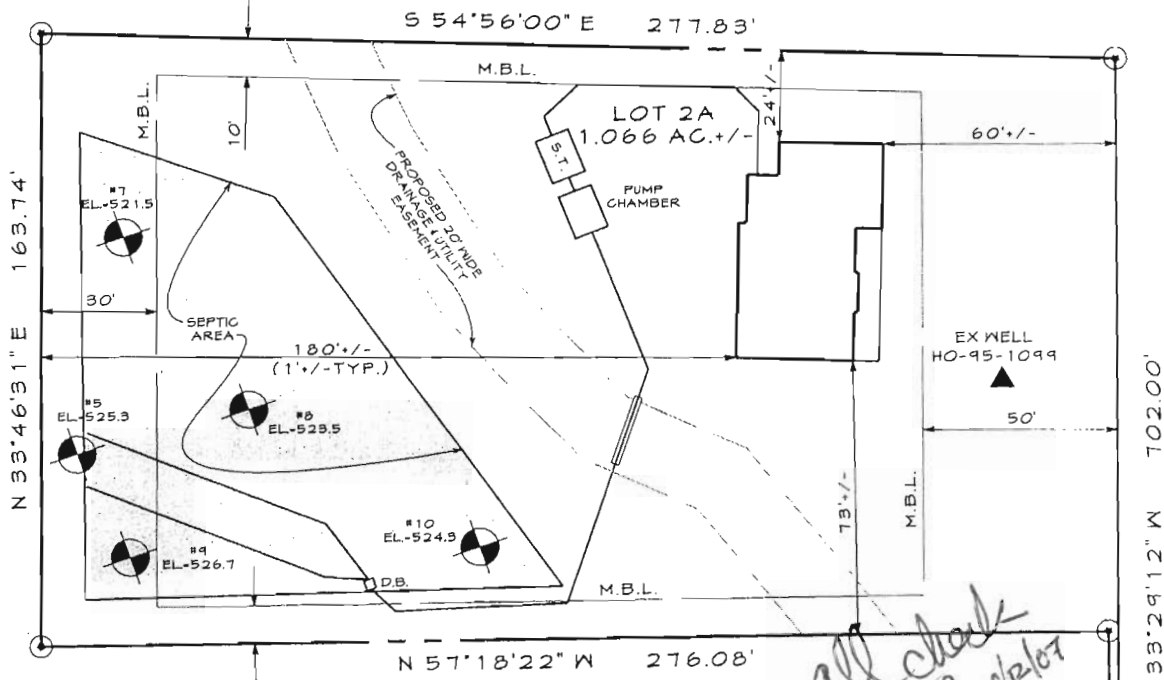
WESTMINSTER OFFICE:
 439 East Main Street
 Westminster, MD 21157-5539
 (301) 946-1700
 FAX (301) 946-1791

Professional Engineer Registration No. 23446
 Date: 2-13-07
 Drawing No. 2006166
 County File No.



*Wall check
 OK FEB 10/2/07*

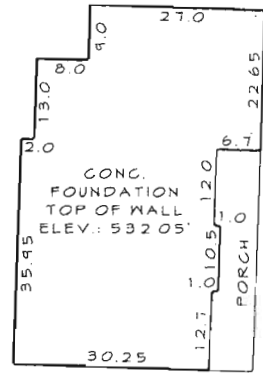
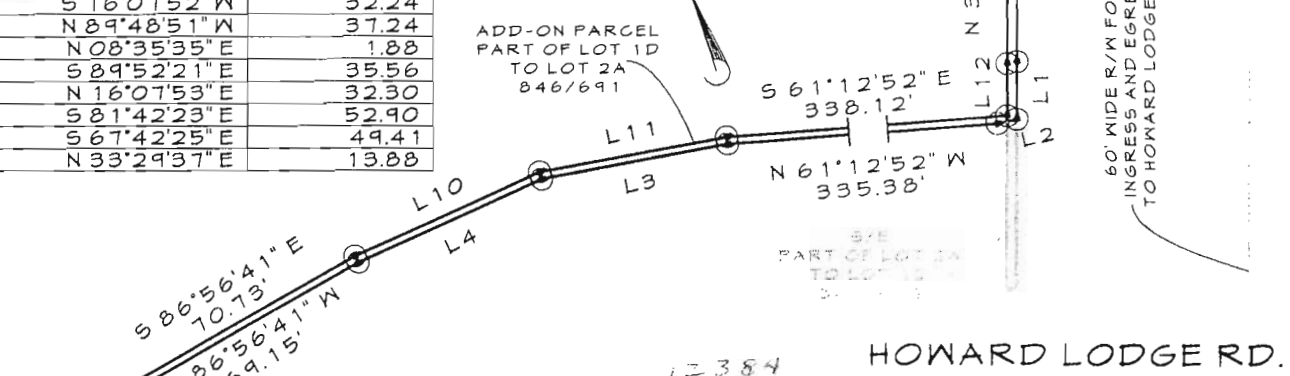
LINE TABLE



*Wall check
OK reb 10/2/07*

LINE TABLE

Ref #	Bearing	Distance
L1	S 33°29'15" W	15.40
L2	N 69°32'25" W	5.11
L3	N 67°42'25" W	49.08
L4	N 81°42'24" W	52.58
L5	S 16°07'52" W	32.24
L6	N 89°48'51" W	37.24
L7	N 08°35'35" E	1.88
L8	S 89°52'21" E	35.56
L9	N 16°07'53" E	32.30
L10	S 81°42'23" E	52.90
L11	S 67°42'25" E	49.41
L12	N 33°29'37" E	13.88



HOUSE DETAIL
SCALE: 1"=30'

**FOUNDATION DRAWING
LOT 2A**

NELSON PROPERTY

3rd ELECTION DISTRICT HOWARD COUNTY, MD.
DEED REF.: 1382/280

A licensed Maryland Surveyor either personally prepared this Foundation Certification, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors.

I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the consumer only in so far as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements.

By *Dennis E. Meckley* Date *10/10/07*
Dennis E. Meckley Property Line Surveyor No. 10844



FREDERICK OFFICE:
8145 Progress Drive, Suite 88
Frederick, MD 21701-4879
(301) 662-1799
FAX (301) 662-8004

WESTMINSTER OFFICE:
439 East Main Street
Westminster, MD 21157-5539
(410) 848-1790
FAX (410) 848-1791

DRAWN BY:	CDD/BEP
DESIGN BY:	
REVIEW BY:	DEM
DATE:	10-03-07
SCALE:	1"=50'
JOB NO:	2006166
SHEET:	1 OF 1