



Howard County
Health Department

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 8/11/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 561491

APPROVAL DATE: 11/30/17 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 1824 FLORENCE ROAD, MT AIRY, MD 21771

SUBDIVISION: KOGAN TRUST LOT: 17 TAX ID: 04-595460

CONTRACTOR: Cumberland Development Custom Homes EMAIL: _____

CONTRACTOR ADDRESS: 2983 Duval Rd. / Woodbine, MD 21797 PHONE: 301-370-4145

PROPERTY OWNER: CRAIG WIEBER EMAIL: _____

OWNER ADDRESS: 14000 MCCURLEY AVENUE, CATONSVILLE, MD 21228 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: BABYLON

PUMP MODEL: ZOELLER #151 PUMP SIZE 0.3 PUMP TANK CAPACITY: 1250

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>180</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Robert Bricker ISSUE DATE: 8/11/17 EXPIRATION DATE: 8/11/18

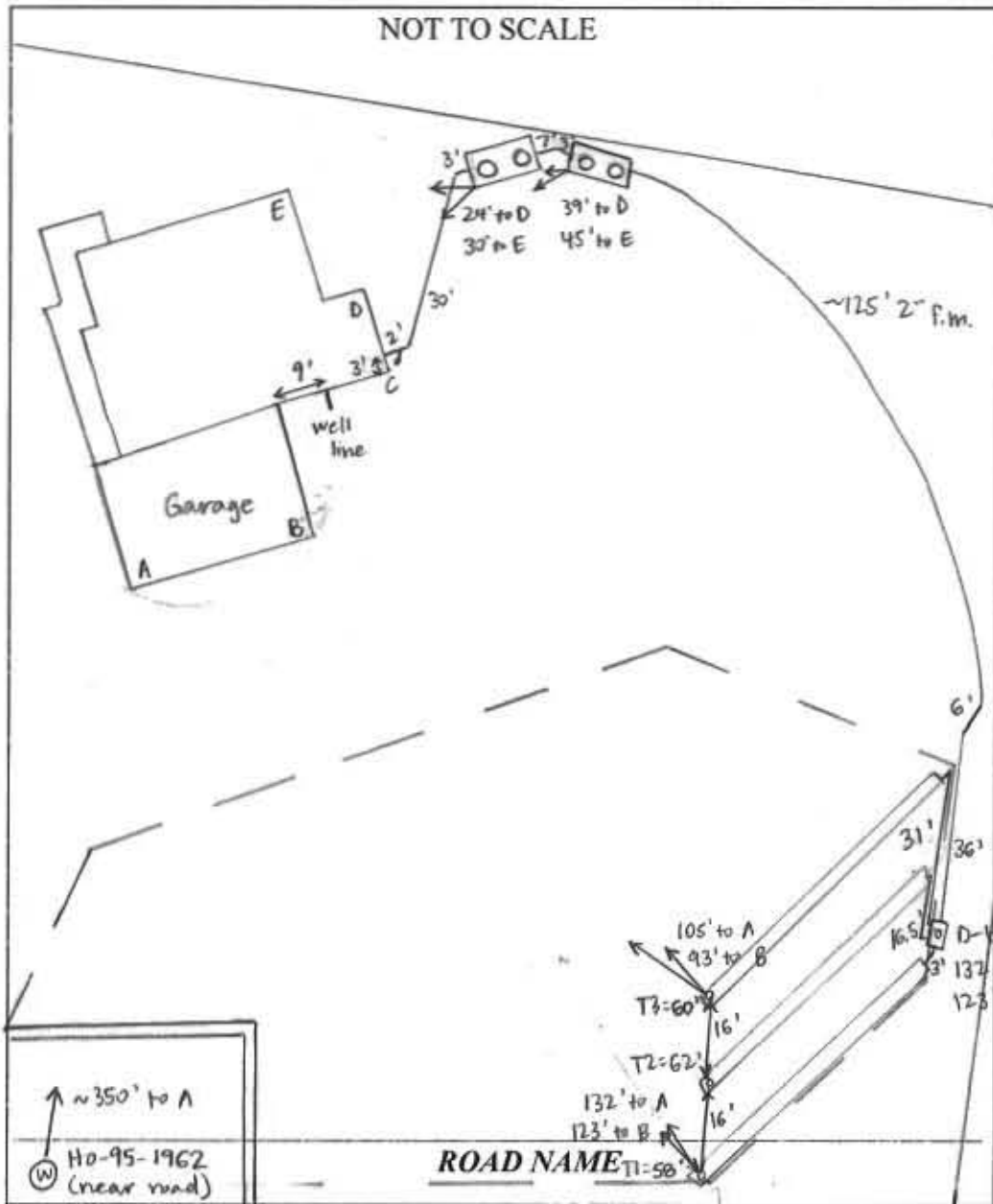
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
- ELECTRICAL PERMIT ISSUED E _____
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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 TO SCHEDULE INSPECTIONS.

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	5.5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		180'
ABSORPTION AREA		540' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	4'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	7-16-17

PUMP/SEPTIC TANK LEVEL	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1250 GAL
SEAM LOC	TOP
TANK LID DEPTH	4'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	7-16-17
Pump:	1/3 hp

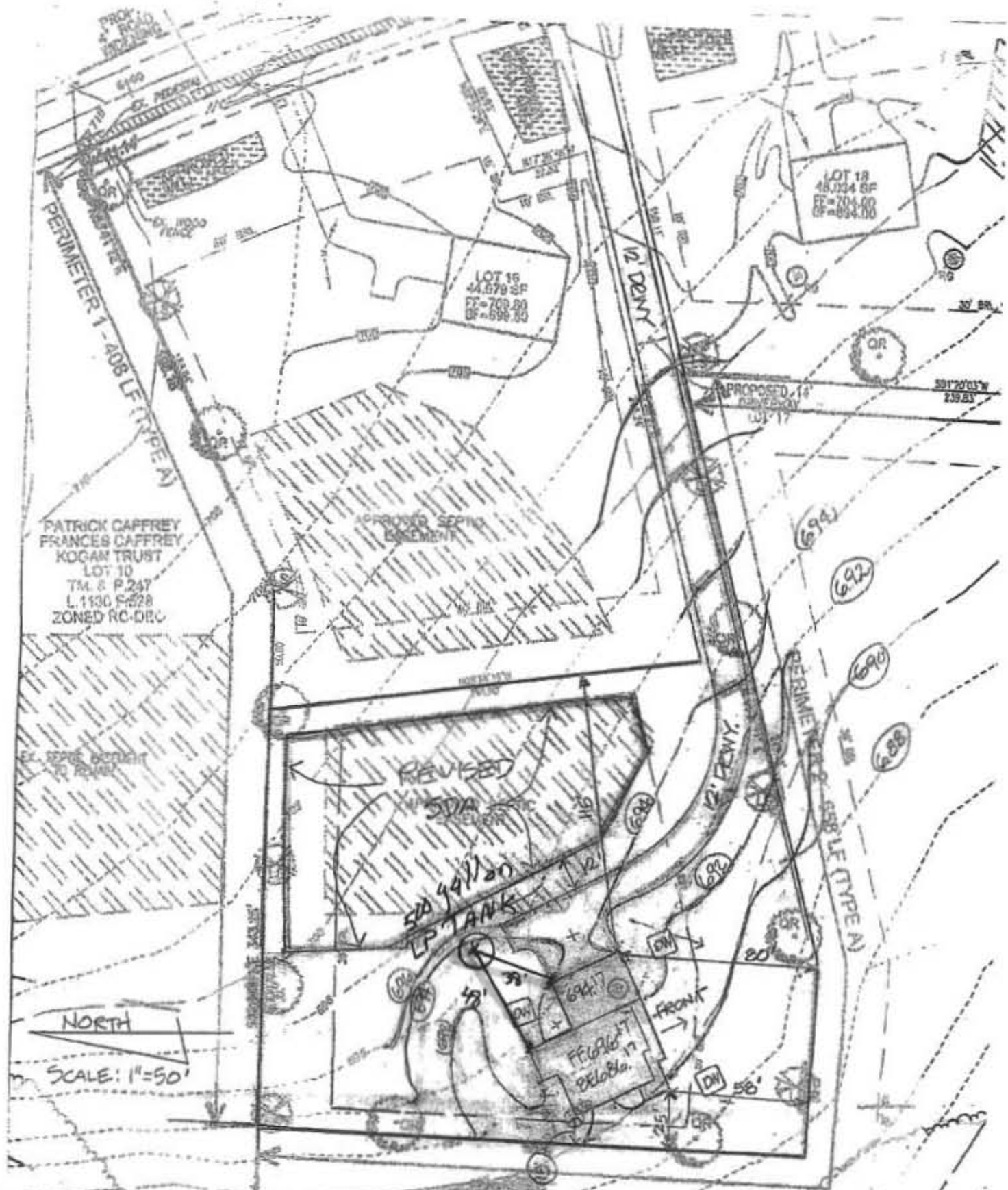
PRE-CONSTRUCTION:

8/11/17 Met Curtis Cumberland on site for layout. SDA corners staked. Shot contour + laid out 3x60' trenches. OK to move tanks farther from house to allow space for future pool. Will need traffic-bearing lids. (SC)

INSTALLATION:

8/17/17 House connection made. Septic tank set, tank hole dug but 2" too high. Lots of rock in tank holes. Curtis will dig hole deeper + set pump tank tomorrow. T1 dug + stone added - 3' wide, 4' inlet. Need observation port @ trench end. (SC) 8/18/17 observation port installed @ T1 end. T2 finished + left open @ ends - 3' wide, 3.5' to stone. Curtis adding stone to T3 - 3' wide, 4' inlet. Pump tank set. (SC) 8/21/17 D-box + force main installed. Need 6" vertical pipe on tank inlet baffle and pump and alarm. (SC) 11/30/17 On site for pump + alarm test. Audible/visual alarm at tank sounds when triggered. pump pumps effluent to D-box. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 11/30/17



CHARLES R. CROCKEN & ASSOCIATES, INC.
 Civil Engineering and Land Planning
 902 Lee Avenue Sykesville, MD 21784
 Tel. 410-549-2708 Fax. 410-549-9063

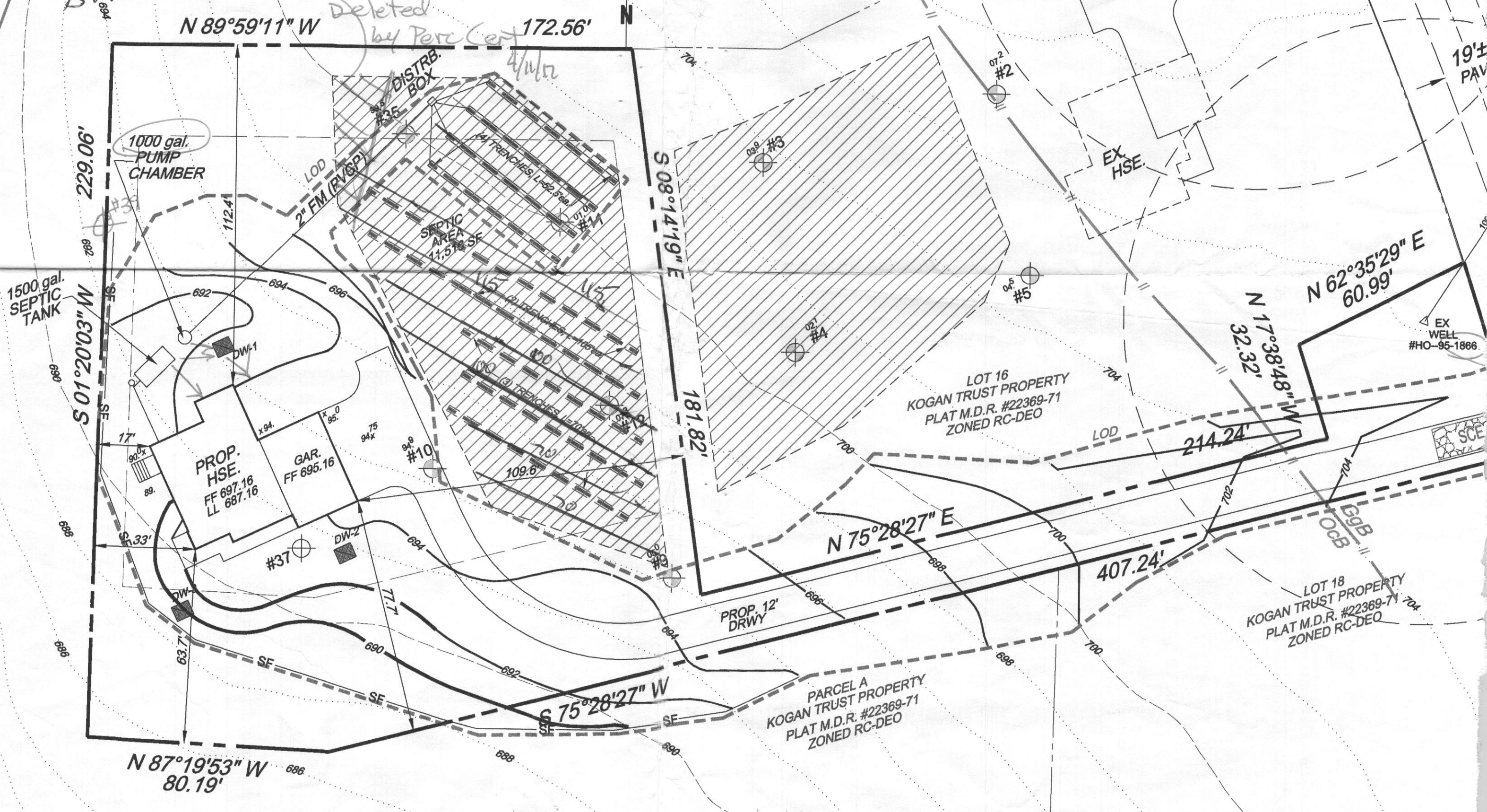
Lama L. Long Mills 1824 Florence Rd Mt Airy

Approved Septic System Plan
Howard County Health Department

1824 Florence Road
4 Bed room SFD, Permit Plan approved
w/edits indicated
being implemented on OSDS Plan

Signature: *[Signature]*
Date: 5/1/2017

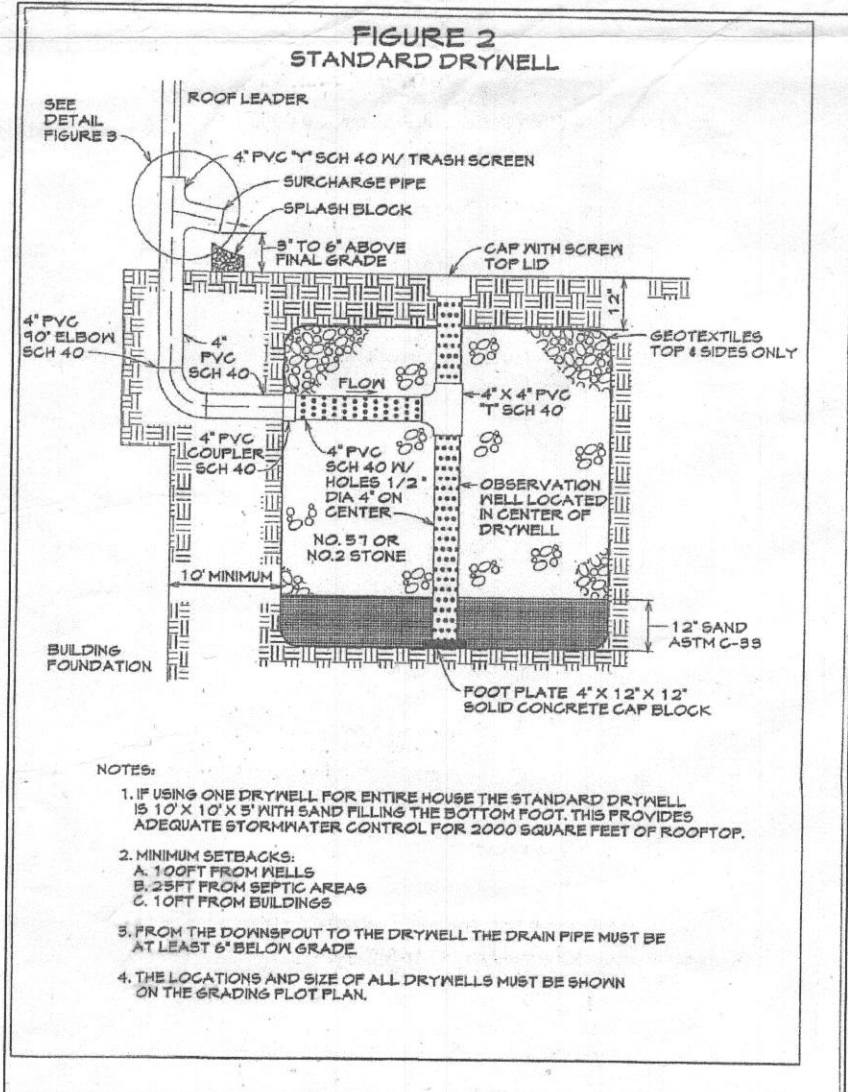
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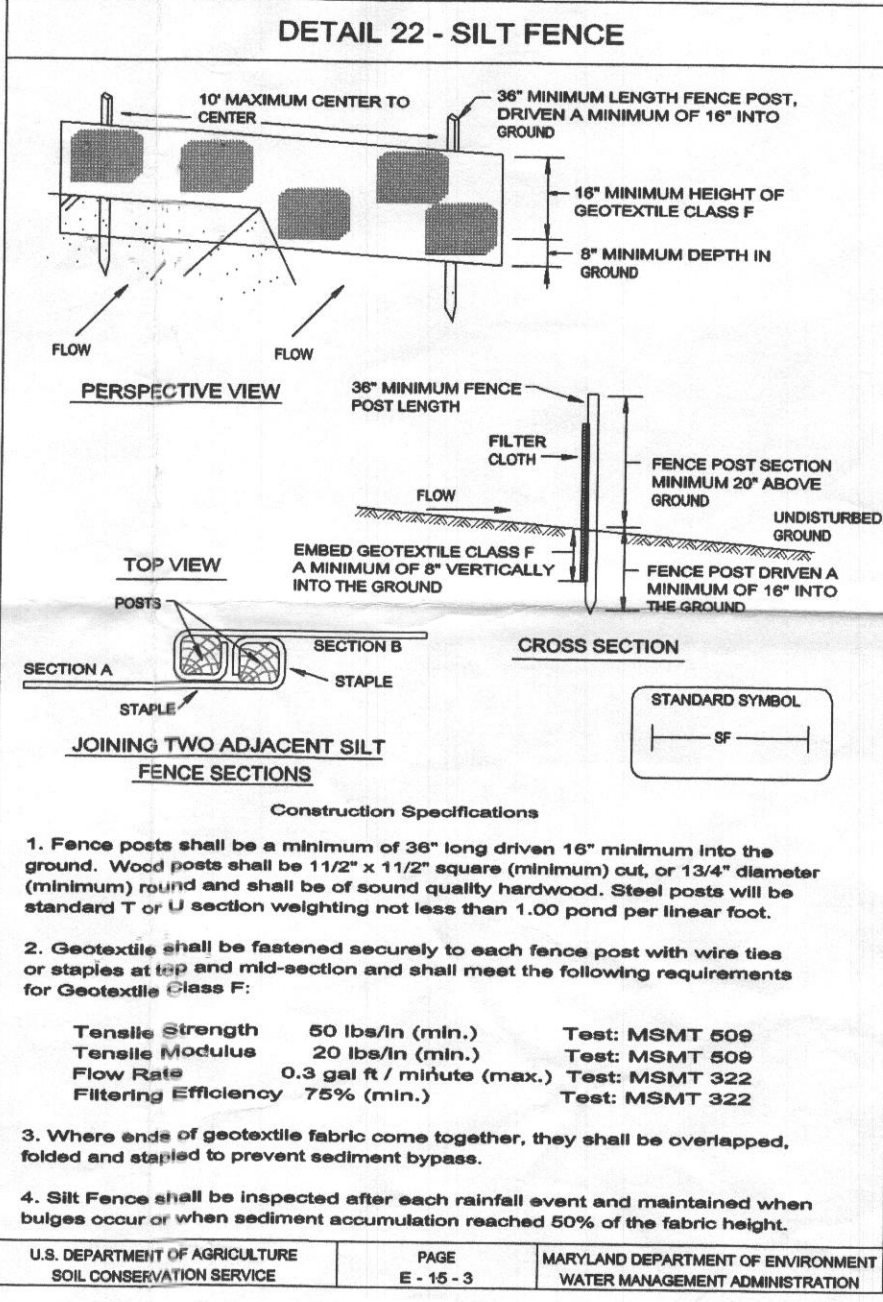
SEPTIC SYSTEM DATA

HOUSE	
INV. AT HOUSE	687.90
SEPTIC TANK (1500 gal)	
EX. GRADE	692.40
FIN. GRADE	691.40
INV. IN	687.40
INV. OUT	687.15
PUMP CHAMBER (1000 gal)	
EX. GRADE	693.70
FIN. GRADE	691.60
INV. IN	687.03
INV. OUT	687.50
DISTRIBUTION BOX	
EX. GRADE	700.80
FIN. GRADE	700.8
INV. IN	698.40
INV. OUT	698.24

FOR THE NUMBER OF TRENCHES, THEIR LENGTH, DEPTH, AND ORIENTATION SEE HEALTH DEPARTMENT PLAN.
GRAVITY SEWER SERVICE IS AVAILABLE TO FIRST FLOOR
SEWER SERVICE TO BASEMENT AVAILABLE BY GRINDER PUMP

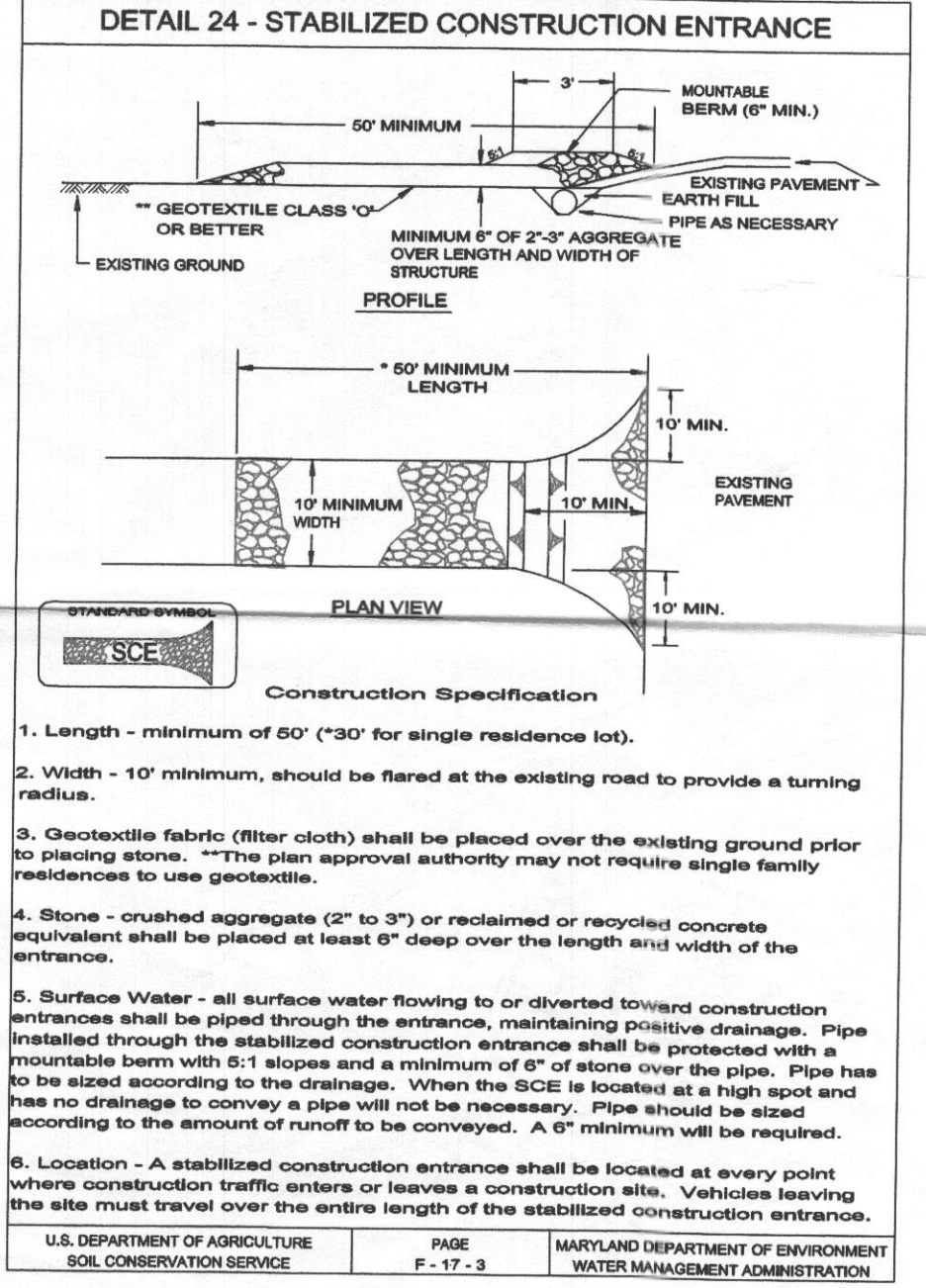


- NOTES:
- IF USING ONE DRYWELL FOR ENTIRE HOUSE THE STANDARD DRYWELL IS 12" X 12" X 8' WITH SAND FILLING THE BOTTOM FOOT. THIS PROVIDES ADEQUATE STORMWATER CONTROL FOR 2000 SQUARE FEET OF ROOFTOP.
 - MINIMUM SETBACKS:
A. 10' FROM WELLS
B. 5' FROM SEPTIC AREAS
C. 10' FROM BUILDINGS
 - FROM THE DOWNSPOUT TO THE DRYWELL THE DRAIN PIPE MUST BE AT LEAST 6" BELOW GRADE.
 - THE LOCATIONS AND SIZE OF ALL DRYWELLS MUST BE SHOWN ON THE GRADING FLOT PLAN.



- Construction Specifications
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.
 - Geotextile 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 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft / minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.



- Construction Specification
- Length - minimum of 50' (*30' for 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. Pipe installed through the stabilized construction entrance shall be protected with a mountable 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.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER: _____ DATE: _____

PERCOLATION CERTIFICATION
I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN
HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.

Charles R. Crocken 2-21-2017

CHARLES R. CROCKEN, PE MD. LICENSE REG. NO. 7803 (EXPIRATION DATE 4-22-2015) DATE: _____

SOILS LEGEND					
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	K-VALUE	HYDRIC GROUP
GgB	Glenelg loam, 3 to 8 percent open	c	0.28	+	NOT HYDRIC
OcB	Ocoquan loam, 3 to 8 percent open	B	0.37	+	NOT HYDRIC

SOIL TYPES BASED ON HOWARD COUNTY SOIL SURVEY MAP # 1 DAMASCUS NE, MARYLAND

LEGEND-SWM- MDE DESIGNATION

DRIVY SLOPE N-2 DENOTES NON-ROOFTOP RUNOFF DISCONNECT (EXISTING DRIVE PAVEMENT)
 N-1 DENOTES ROOFTOP RUNOFF

STORMWATER MANAGEMENT PRACTICE CHART-ESI (SEE NOTES)						
LOT NO.	AREA	IMPROV. AREA	IMPROV. TYPE	R _r	INCHES	SWM PRACTICE
#17	1824	83,249	8716'	17%	0.20	1.0' 600

*LOT-16 IMPROVEMENT AREA = 4078 SF
 SWM SITE DESIGN SATISFIED BY THE FOLLOWING LOW IMPACT DEVICES
 1/4" I DENOTES DISCONNECT OF ROOFTOP RUNOFF
 1/4" I DENOTES DISCONNECT OF NON-ROOFTOP RUNOFF + 1" GRASS SLOTTOR

DRIYWELL SCHEDULE						
NO.	DIMENSIONS W x L x D	DEPTH ELEV.	TOP ELEV.	SOIL ELEV.	INV. OUT	OUTFALL INV.
DW-1	5.25' x 6' x 5.5'	683.4	681.9	686.6		
DW-2	5.25' x 6' x 5.5'	680.0	688.5	682.75		
DW-3	6.25' x 6' x 6.5'	686.0	686.5	680.0		

NOTE: THE WATER QUALITY FACILITIES SHOWN HEREON SHALL BE CONSTRUCTED AND MAINTAINED BY THE OWNER

VICINITY MAP SCALE: 1" = 2000'

GENERAL NOTES

- OWNER: WILLIAM S. DEVEREUX
 260 CURTIS CUMBERLAND CUMBERLAND DEVELOPMENT CUSTOM HOMES
 2983 DUVALL ROAD, WOODBINE, MD. 21797
- TAX MAP 006, GRID 23, PARCEL 247
- THE BOUNDARY SHOWN HEREON IS BASED UPON RECORDED PLAT OF THE "KOGAN TRUST PROPERTY" PLAT M.D.R. #22369-71
- WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
- THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #24027000100
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83, CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT. OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
- EXISTING WELLS #HO-95-1866 & #HO-95-1866 SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
- SUBJECT PROPERTY IS ZONED RC-DEO - 10 /S13 COMPREHENSIVE ZONING PLAN
- THE SUBJECT PROPERTY SHOWN HEREON IS NOT SUBJECT TO ANY PRIOR ZONING CASES, VARIANCES OR SPECIAL EXCEPTIONS. PROPERTY HISTORY: F-89-83, W-80-81, F-81-17, SP-08-20, WP-08-24, WP-12-15, WP-12-15B, WP-11-70 AND F-08-103
- STORMWATER MANAGEMENT FOR THE SUBJECT PROPERTY SHOWN HEREON HAS BEEN SATISFIED BY TAKING CREDIT FOR DISCONNECTED ROOF TOP AND NON-ROOF TOP RUNOFF IN ACCORDANCE WITH MDE STORM WATER DESIGN MANUAL VOL. 1, SEC. 5.1 AND MDE ENVIRONMENTAL SITE DESIGN (ESD), THE HOWARD CO. DESIGN MANUAL VOL. 1, CHAPTER 5 REVISED AND THE HOWARD CO. DESIGN ESD ON SMALL PROJECTS
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN, SECP AND/OR SITE DEVELOPMENT PLAN, REVISION REGULATIONS AND THE COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAT AND/OR SITE DEVELOPMENT PLAN STAGES. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN AS THE PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS
- LANDSCAPING REQUIREMENTS SATISFIED BY F-08-103
- COORDINATES BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NOS. 12CA AND 12CB
- COMPLIANCE WITH THE REQUIREMENTS OF SECTION 18.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION WERE SATISFIED UNDER F-08-103
- THERE ARE NO STREAMS, STREAM BUFFERS, WETLANDS, WETLAND BUFFERS, FLOODPLAINS, AND FORESTED AREAS LOCATED ON SITE.
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN
- THE WELLS TAG #HO-95-1862 & #HO-95-1861 HAS BEEN FIELD LOCATED AND ARE ACCURATELY SHOWN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

SEPTIC SYSTEM DESIGN:

Design Flow:
 4 Bedroom Dwelling Design Flow = 600 gpd.
 Percolation Test Time < 15 Minutes App. Rate = 0.8 gpd/sq ft.
 Deep Trench Width W = 3', Depth of Stone = 1.5' below invert of pipe
 Length of Trench Req'd. = 178 LF = (3) Trenches L = 60' each

Septic Tank:
 1500 Gal. Top Seam Double Compartment Precast Concrete Tank
 As manufactured by Babylon Vault (410-848-0393)
 Non-traffic bearing or approved equal.

Pump Chamber:
 1250 Gal. Top Seam Single Compartment Precast Concrete Tank
 As manufactured by Babylon Vault (410-848-0393)
 Non-traffic bearing or approved equal.

Submersible Pump:
 Zoeller Model 137/139 0.50 hp/230 vac., 40 gpm @ 15.47 FT. TDH

SEPTIC SYSTEM DATA:

Finish Floor Elevation = 697.16
 Basement F.F. Elevation = 687.16
 Fin. Gr. @ Hse. Elev. = 692.40
 Invert 4 SS @ House 689.80
 Fin. Grade Elev. 693.00
 Fin. Grade Elev. 691.50
 Inv. In Elev. 689.00
 Inv. Out Elev. 688.75
 Pump Chamber; (1250 gal.)
 Ex. Grade Elev. 700.60
 Fin. Grade Elev. 692.00
 Inv. In Elev. 688.59
 Inv. Out Elev. 688.39
 Distribution Box;
 Ex. Grade Elev. 700.60
 Fin. Grade Elev. 700.60
 Inv. In Elev. 698.40
 Inv. Out Elev. 698.24
 Initial System;
 Depth to Treatment Zone = 4.0'
 Depth of Stone = 1.50'
 Pump Off 685.67 (Bot. +1'-9")
 Invert (In) Elev. 693.80
 Bot. of Stone Elev. 692.30
 Trench #2 Grd. Elev. 697.00
 Invert (In) Elev. 693.00
 Bot. of Stone Elev. 691.50
 Trench #3 Grd. Elev. 700.20
 Invert (In) Elev. 695.20
 Bot. of Stone Elev. 694.70

DOSE VOLUME

1/5 X Des. Flow = 1/5 X 600 = 120 Gal.

FORCE MAIN

2" F.M. = 2" Sch. 40 PVC PL = 1.54' /100LF

PUMP CHAMBER (1250 Gal. Tank)

Dose = 1/5 x Design Flow = 1/5 x 600 gal = 120 gal.
 Top Elev. 689.34
 Inv. (In) 688.59
 Bot. Tank 684.17
 6" Base 684.67
 Pump Off 685.67 (Bot. +1'-9")
 Pump On 688.00 (120 Gal. Dose)
 HWL Elev. 686.58
 Storage Above HWL 688.59-686.58 = 2.01'
 Storage 2.01' @ 367 Gal./VF = 738 Gal.
 Dose = 120 gal/367 gal / VF = 0.33' = 4"

PUMP DESIGN

Design Flow = Qdes. = 120 Gal./4 Min. = 30 gpm
 Length of 2" F.M. = L = 98'
 Minor Losses (4) 1/2 Bends = 4 @ 10' ea. = 40'
 (1) Coupling = 1 @ 3' ea. = 3'
 (1) Valve = 1 @ 55' ea. = 55'
 Total Equivalent Length = 194'
 Friction Loss = 1.54'/100' x 194' = 2.99'
 Total Dynamic Head = 12.48' + 2.99' = 15.47'
 Pump = Zoeller Dose-Mate Model #151

CONTROL PANEL

Single Phase Simplex Pump Control/Alarm System Model #110-1036

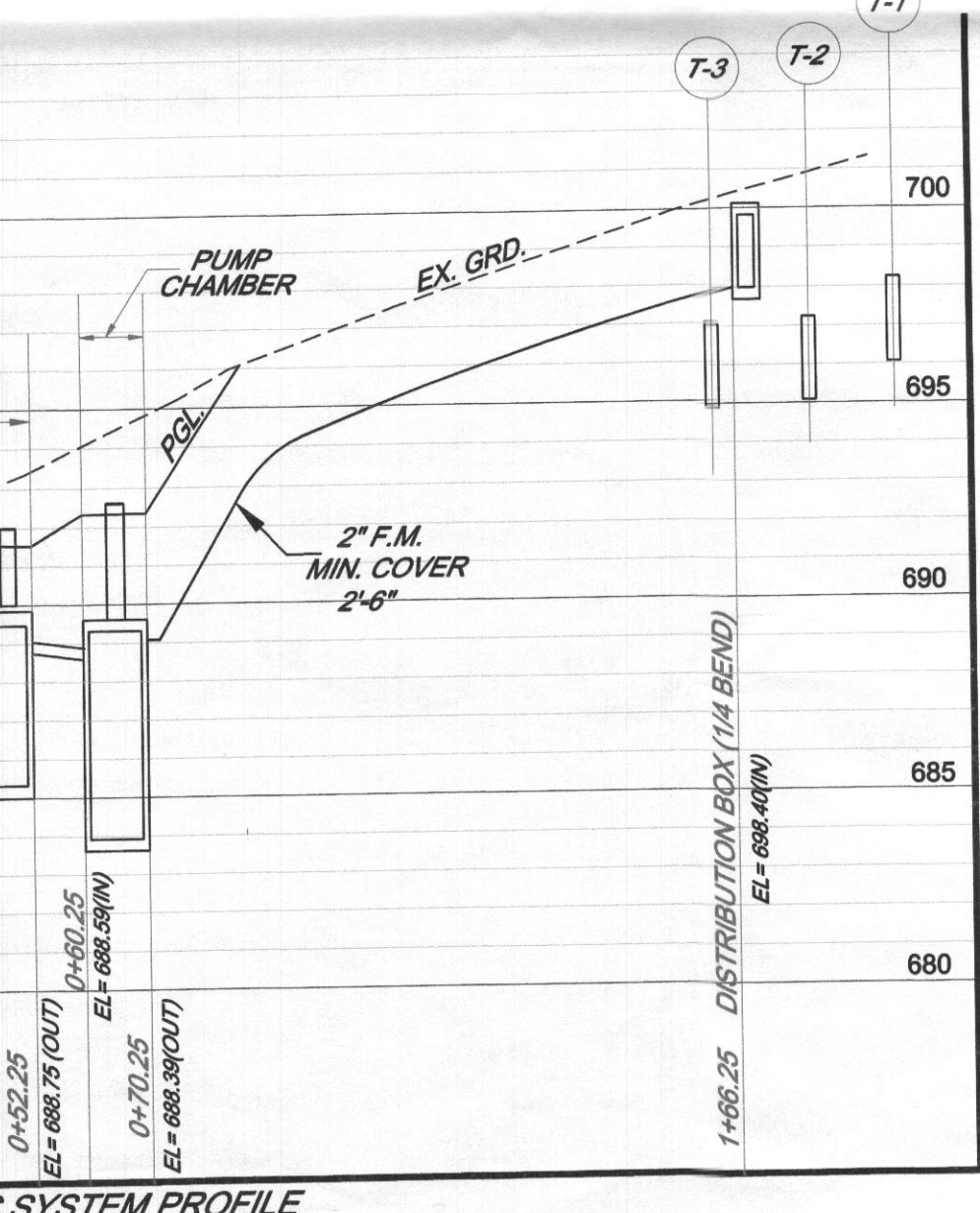
TRENCH DESIGN

UNIT	FLOW	SEPTIC TANK	AVER. TIME	DEEP TRENCH (1'-2" STONE)
4-BDR	600	1500	< 15 MIN.	178 LF REQUIRED

SYSTEM DESCRIPTION: TANK SIZE: 1500 GALS. INITIAL SYSTEM = 3 x 60' = 180 LF

UNIT	FLOW	SEPTIC TANK	AVER. TIME	DEEP TRENCH (1'-2" STONE)
4-BDR	600	1500	> 15 MIN.	279 LF REQUIRED

SYSTEM DESCRIPTION: TANK SIZE: 1500 GALS. REPLACEMENT SYSTEM (1) = 3 x 93' = 279 LF
 REPLACEMENT SYSTEM (2) = LOW PRESSURE DOSING SYSTEM
 279 LF



Approved Septic System Plan
 Howard County Health Department
 1500-gal Septic Tank
 1250-gal Pump Tank
 Zoeller model 151 pump
 or equal
 R. Binkley
 5/25/17
 Date

SITE ANALYSIS
 TOTAL AREA SITE 1.1536 ACRES (80,249 SF.)
 AREA OF WETLANDS AND THEIR BUFFERS 0.0 ACRES (0.0 SF.)
 AREA OF STREAMS AND THEIR BUFFERS 0.0 ACRES (0.0 SF.)
 AREA OF FLOODPLAIN AND THEIR BUFFERS 0.0 ACRES (0.0 SF.)
 AREA OF MODERATE STEEP SLOPES 15% - 24.9% 0.0 ACRES (0.0 SF.)
 AREA OF STEEP SLOPES - 25% OR GREATER 0.0 ACRES (0.0 SF.)
 AREA OF FORESTS 0.0 ACRES (0.0 SF.)
 AREA OF ERODIBLE SOILS 0.0 ACRES (0.0 SF.)
 AREA DISTURBED 0.8578 ACRES (17,367 SF.)
 AREA TO BE ROOFOFF 0.0610 ACRES (2658 SF.)
 AREA TO BE PAVED 0.1391 ACRES (6060 SF.)
 TOTAL IMPERVIOUS AREA 0.2001 ACRES (8,718 SF.)
 AREA TO BE VEGETATIVELY STABILIZED 0.6377 ACRES (28,649 SF.)
 TOTAL VOLUME CUT 425 CY.
 TOTAL VOLUME FILL 425 CY.

LEGEND

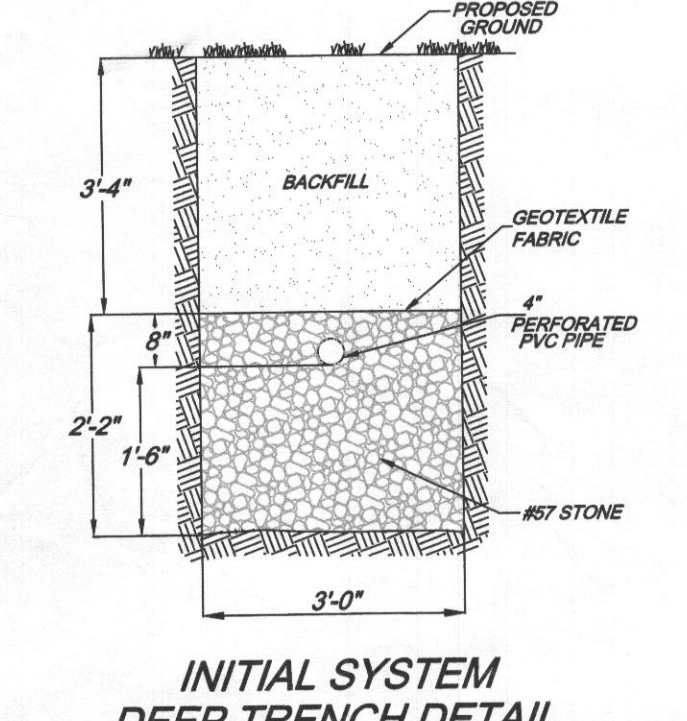
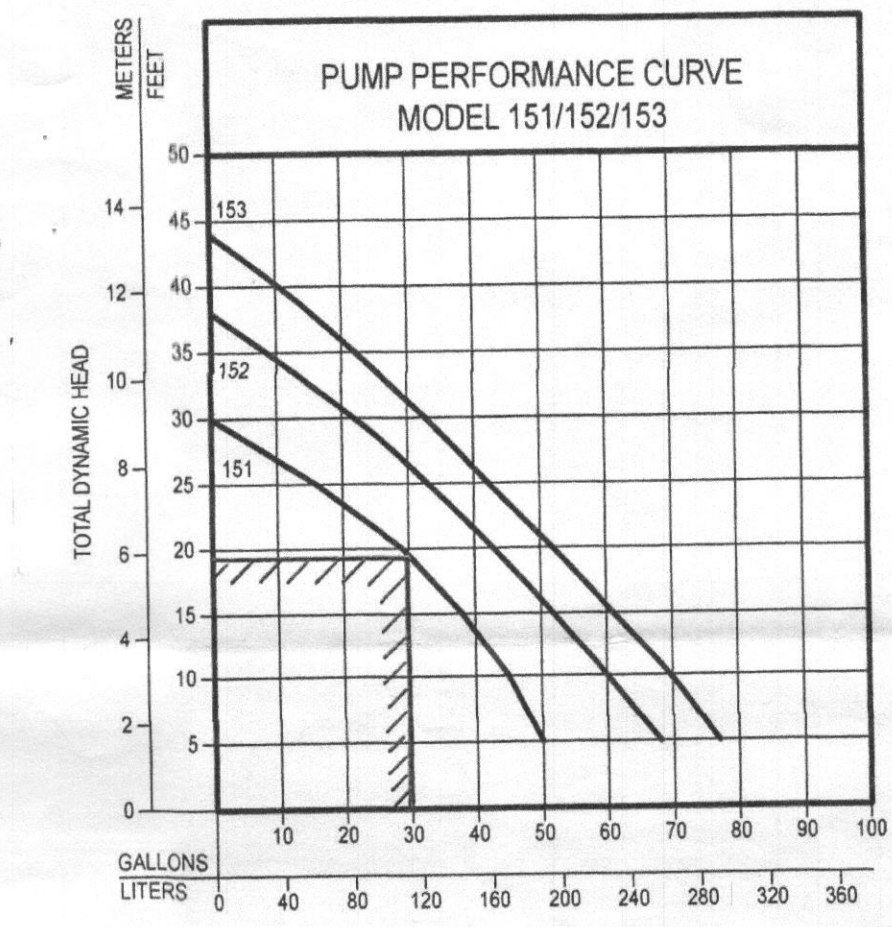
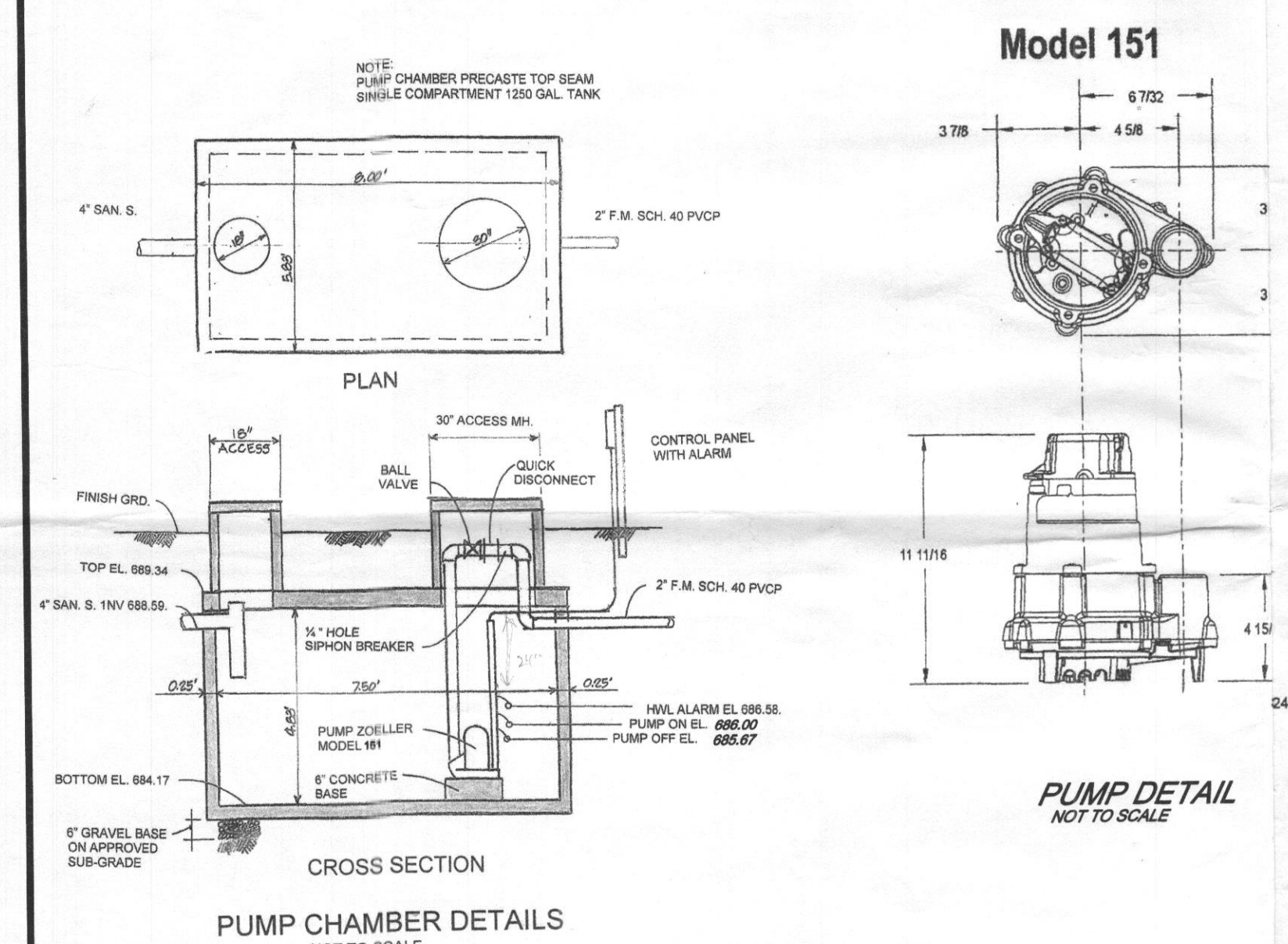
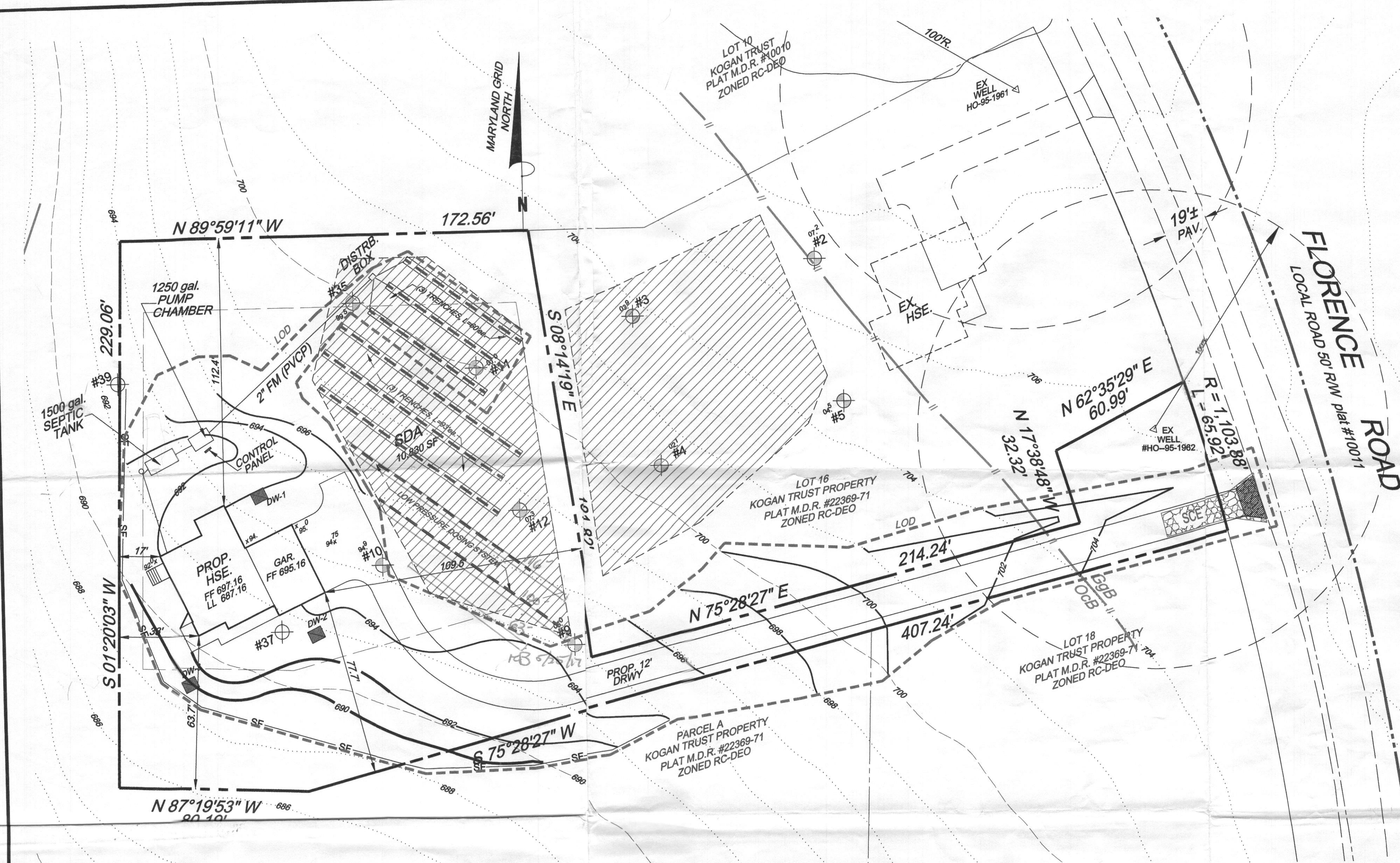
- WELL LOCATION
- ALTERNATE WELL LOCATION
- PROPOSED SEPTIC LOCATION
- ABANDON SEPTIC AREA LOCATION
- ADDITION TO SEPTIC AREA LOCATION
- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY
- PROP. LOT LINES
- EX. EASEMENTS
- EX. CONTOURS
- PROP. CONTOURS
- EX. TREEWOODS LINE
- PROP. TREEWOODS LINE
- EX. WETLANDS
- SOILS LINE
- LIMIT OF DISTURBANCE
- DENOTES SLOPES 25% OR GREATER
- DENOTES SLOPES 15-25%
- STABILIZED CONSTRUCTION ENTRANCE
- HIPER SILT FENCE
- ILT FENCE
- EXISTING TREES

OWNER:
 WILLIAM S. DEVEREUX
 1500 FLORENCE RD.
 MOUNT AIRY MD 21771
 (tel.) 301-252-1122

BUILDER:
 CUMBERLAND DEVELOPMENT CUSTOM HOMES
 260 CURTIS CUMBERLAND
 2983 DUVALL RD.
 WOODBINE, MD 21797
 (tel.) 301-252-1122

Prepared by:
CHARLES R. CROCKEN AND ASSOCIATES, INC.
 802 LEE AVE.
 SYKESVILLE, MARYLAND 21157
 Tel. (410) 549-2708

SCALE: 1" = 30' DATE: 04/20/17 SHEET 1 OF 1



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

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. 7803 EXPIRATION DATE 4-22-2019

Charles R. Crocken 5-5-2017 DATE

CHARLES R. CROCKEN, P.E. MD. LICENSE REG. NO. 7803

