

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: 1/8/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564713
 APPROVAL DATE: 02/15/2019 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 12414 All Daughters Lane
 SUBDIVISION: Orchard Estates LOT: 5 TAX ID: _____
 CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequipment.com
 CONTRACTOR ADDRESS: P.O. Box 419 Annapolis Junction, MD 21701 PHONE: 301-490-4289
 PROPERTY OWNER: MB Orchard Estates EMAIL: _____
 OWNER ADDRESS: 1686 E. Gude Drive, Rockville, MD PHONE: 301-762-9511
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon
 PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

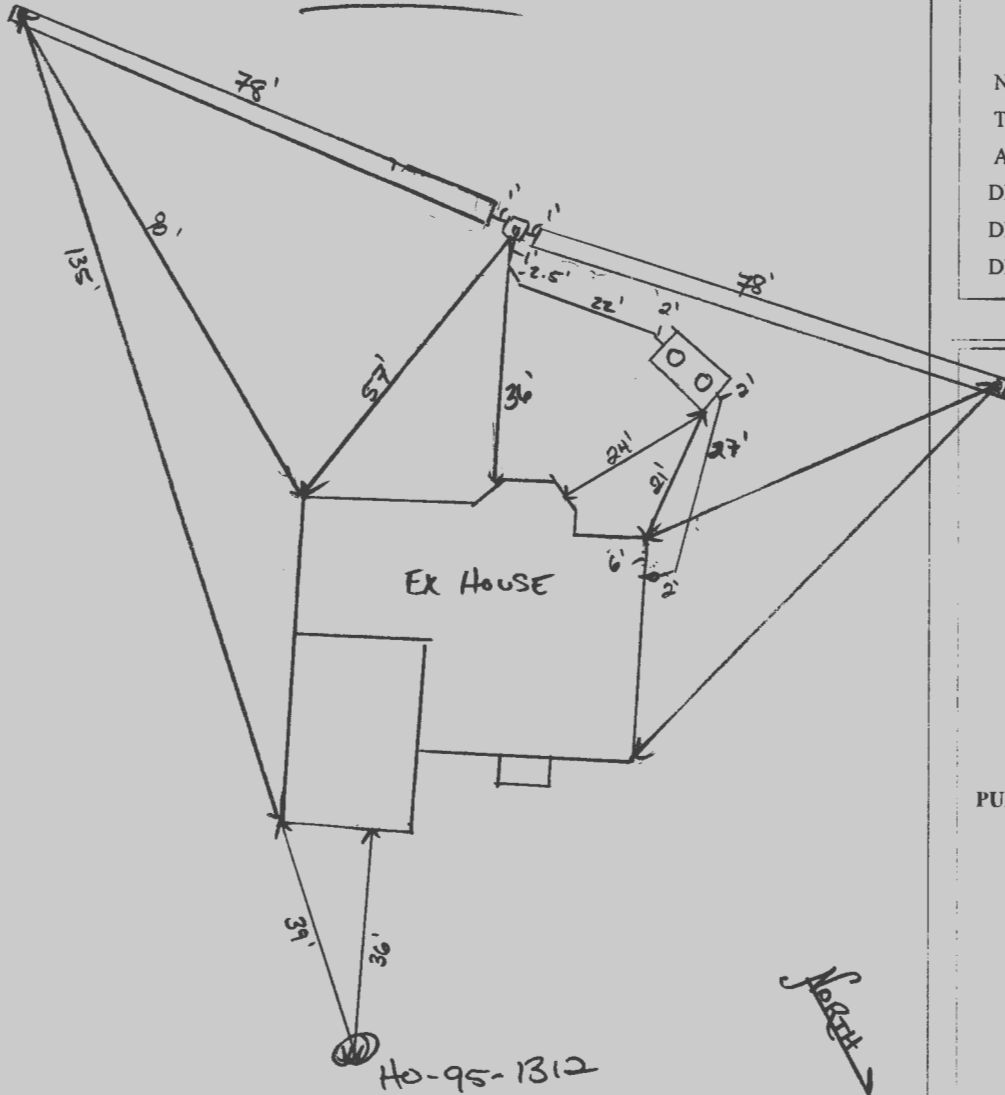
TRENCHES:	LINEAR FEET REQUIRED: <u>156.4</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald ISSUE DATE: 1/8/19 EXPIRATION DATE: 1/8/20

- 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 N/A
- 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'	3'	5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		156 ft
ABSORPTION AREA		468 ft ²
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
SEPTIC LOC	TOP
TANK LID DEPTH	2' - 1'
BATTLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	INLET
WATERTIGHT TEST	N/A
SLOTTED	YES
DATE ON LID	1-2-19
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEPTIC LOC	
TANK LID DEPTH	
BATTLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

ROAD NAME
ALL DAUGHTERS

PRE-CONSTRUCTION:

02/13/2019 TRENCH SLID TO EDGE OF SDA TO CONSERVE AREA TRENCHES STAKED AND PAINTED. OK TO TURN SE OK TO START. (P)

INSTALLATION: 2/14/2019 SHC INSTALLED TANK SET AND CONNECTED TO HOUSE. YES BAFFLES. D BOX SET AND INSTALLED. TRENCH COMPLETE. OK TO BACKFILL. REINSR. REMAINING TRENCH. (P) 2/15/2019 REMAINING TRENCH COMPLETE. D BOX LEVELED W/ SPEED LEVELS. OK TO BACKFILL (P).

FINAL INSPECTOR

DATE OF APPROVAL

02/15/2019



GLW
 PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DR. SUITE 250
 BURTONSVILLE, MD 20866
 301-421-4024 | FAX: 301-421-4186
 WWW.GLWPA.COM

LETTER OF TRANSMITTAL

DATE	10-24-2018	JOB NO.	15112
PROJECT	Orchard Estates		
	Lot 5 (12414 All Daughters Lane)		

TO: Bureau of Environmental Health
 8930 Stanford Blvd.
 Columbia, MD 21045

ATTN: Hank Oswald

WE ARE SENDING THE FOLLOWING ITEMS:

ATTACHED UNDER SEPARATE COVER
 MYLARS PRINTS COST ESTIMATES DESCRIPTIONS GRADE SHEETS
 COPY OF LETTER APPLICATIONS COMPUTATIONS OTHER _____
VIA: MAIL OVERNIGHT GLW COURIER COURIER OTHER _____

COPIES	DATE	PAGES	DESCRIPTION
3		1 of 1	OSDS plan for 12414 All Daughters Lane (Lot 5)

THESE ARE TRANSMITTED as checked below:

FOR APPROVAL SIGN & RETURN
 FOR YOUR USE AS SUBMITTED TO _____
 FOR REVIEW & COMMENT AS REQUESTED BY _____
 PER YOUR REQUEST _____

REMARKS: Hi Hank,
Here is the updated OSDS plan for Lot 5 for review showing the septic tank slid over because the homebuyers would like the tank further away from their future pool/patio area.

COPY TO: _____

SIGNED: Kristy Pierce
 Kristy Pierce

If enclosures are not as noted, kindly notify us at once.



GLW
 PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DR. SUITE 250
 BURTONSVILLE, MD 20866
 301-421-4024 | FAX: 301-421-4186
 WWW.GLWPA.COM

LETTER OF TRANSMITTAL

DATE	10-8-2018	JOB NO.	15112
PROJECT	Orchard Estates		
	Lot 5 (12414 All Daughters Lane)		

TO: Bureau of Environmental Health
 8930 Stanford Blvd.
 Columbia, MD 21045

ATTN: _____

WE ARE SENDING THE FOLLOWING ITEMS: ATTACHED UNDER SEPARATE COVER

MYLARS PRINTS COST ESTIMATES DESCRIPTIONS GRADE SHEETS

COPY OF LETTER APPLICATIONS COMPUTATIONS OTHER _____

VIA: MAIL OVERNIGHT GLW COURIER COURIER OTHER _____

COPIES	DATE	PAGES	DESCRIPTION
3		1 of 1	OSDS plan for 12414 All Daughters Lane

THESE ARE TRANSMITTED as checked below:

FOR APPROVAL SIGN & RETURN

FOR YOUR USE AS SUBMITTED TO _____

FOR REVIEW & COMMENT AS REQUESTED BY _____

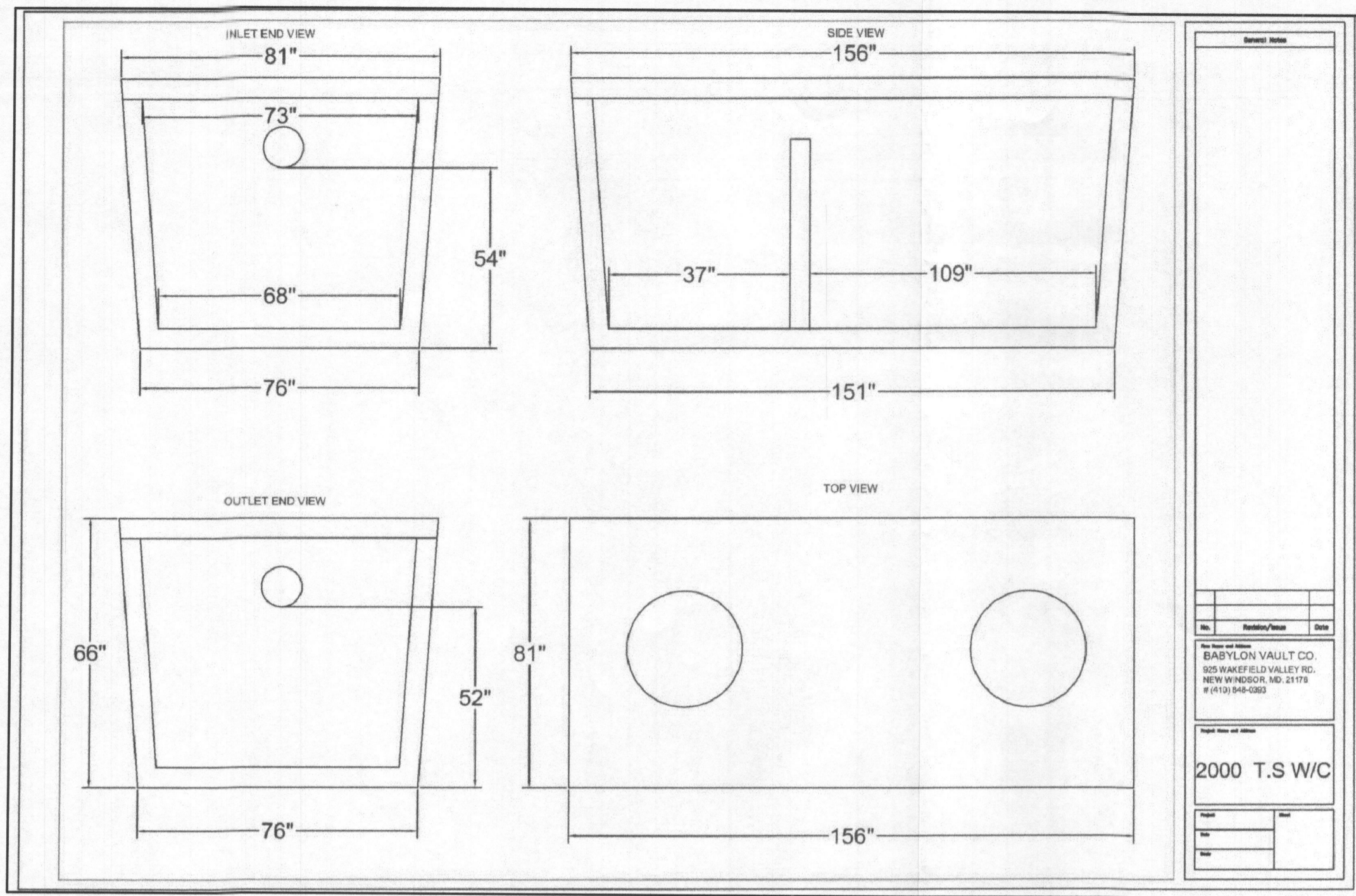
PER YOUR REQUEST _____

REMARKS: Here is the OSDS plan for Lot 5 for review.
 Please let me know if you have any comments and when it is ready for pick-up

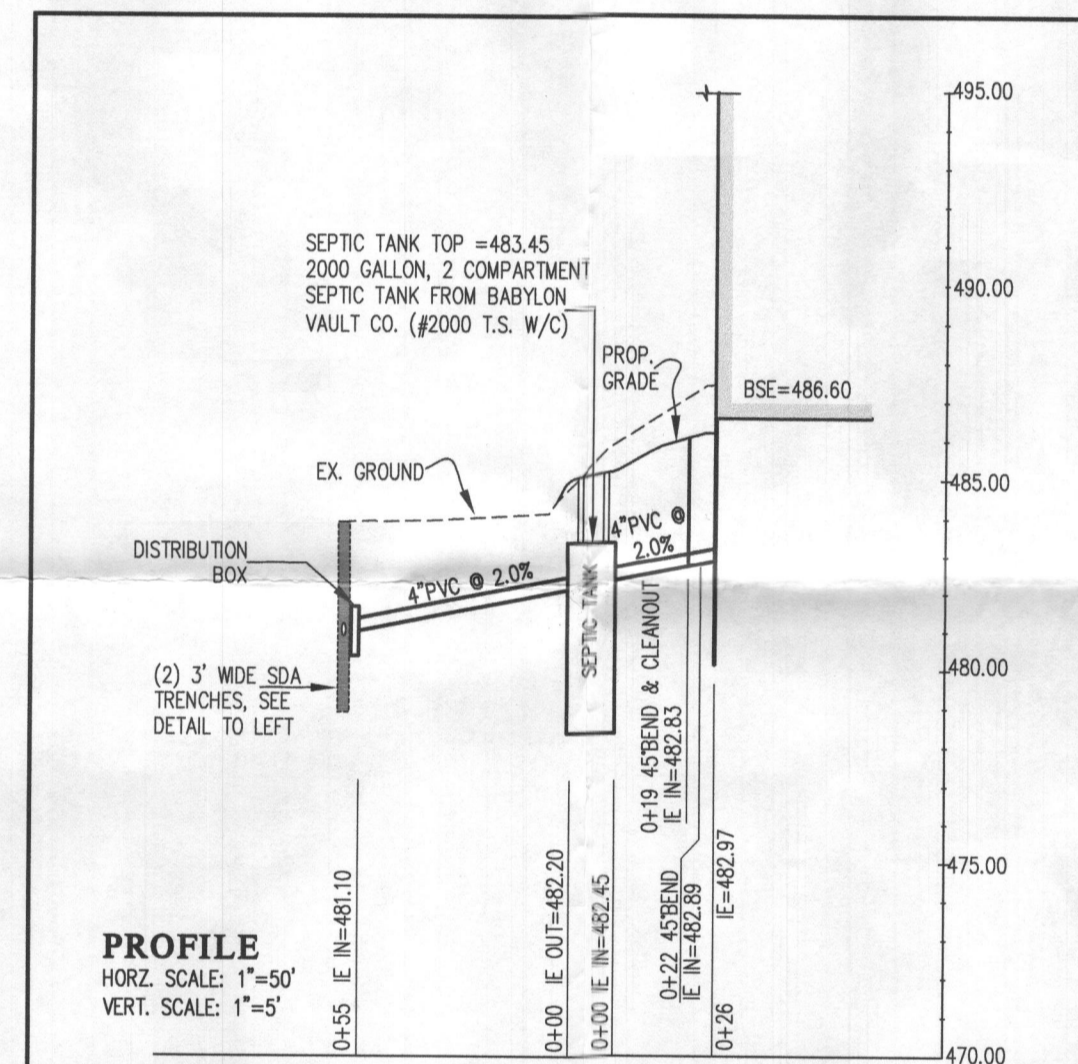
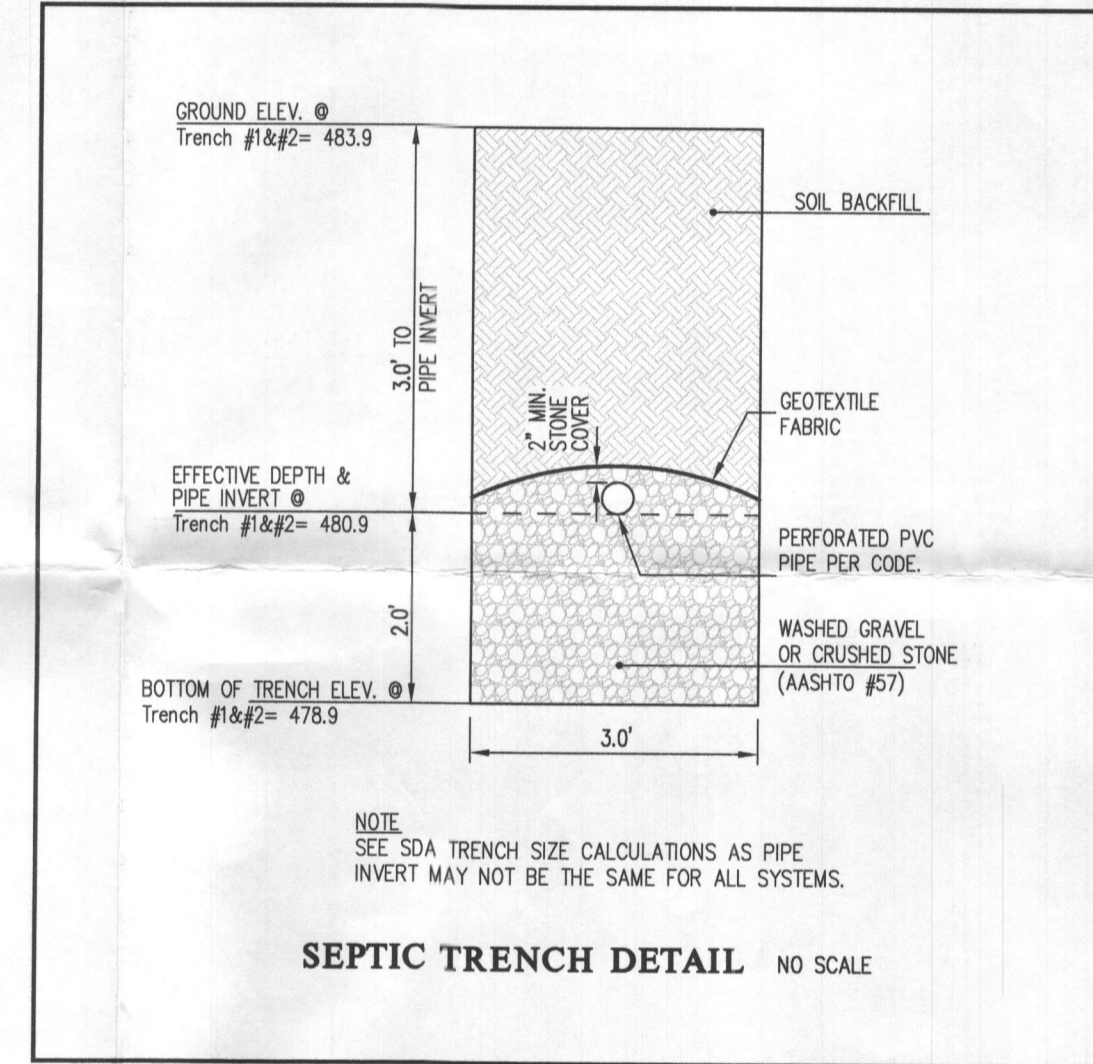
COPY TO: _____

SIGNED: Kristy Pierce
 Kristy Pierce

If enclosures are not as noted, kindly notify us at once.



SDA TRENCH SIZE CALCULATIONS			
ORCHARD ESTATES	Lot 5		
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	1.2
Effective area beginning depth	3.0	3.0	3.0
Effective area maximum bottom depth	5.0	5.0	5.0
Number of Bedrooms	6	6	6
Design flow at 150 gal./day/bedroom	900	900	900
Absorption Trench Calculations			
Drainfield area required (Design flow/application rate)	750 s.f.	750 s.f.	750 s.f.
Effluent pipe depth to invert (cannot exceed 4'. If < 2', then field run topo at 1-ft. internal is required).	3.0	3.0	3.0
Effective sidewall depth "D" = depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom.	2.0	2.0	2.0
Trench Width "W" (2 or 3 feet)	3.0	3.0	3.0
Sidewall Reduction Percent = $(W+2)/(W+1+2D)$	62.50%	62.50%	62.50%
Linear feet of trench required = (drainfield area x sidewall reduction)/W	156.3	156.3	156.3
Trench Layout Information			
Number of trenches to use	2	2	2
Min. length (linear feet)	78.2	78.2	78.2
Total (linear feet)	156.4	156.4	156.4
Minium Trench Spacing:	10.0	10.0	10.0
For trenches with no sidewall credit the spacing is 6' for a 2' wide trench and 9' for a 3' wide trench (measured edge to edge). All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall not over 3.5'. If > 3.5', then spacing formula is 2D+W up to a maximum of 18'.			



LEGEND

- 500 EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- FTE FIRST FLOOR ELEVATION
- TOW TOP OF FOUNDATION WALL
- BSE BASEMENT SLAB ELEVATION
- ▨ PRIVATE SEWAGE DISPOSAL AREA
- ▨ INITIAL SYSTEM 3' WIDE TRENCH
- ▨ 1st REPLACEMENT SYSTEM TRENCH
- ▨ 2nd REPLACEMENT SYSTEM TRENCH
- ⊕ PERCOLATION TEST HOLE PASSED 8-14-2018
- ⊖ PERCOLATION TEST HOLES (PASSED)
- ⊖ TP # PERCOLATION TEST HOLES (FAILED)
- ⊙ EXISTING WELL LOCATION
- ⊙ ALTERNATE WELL LOCATION

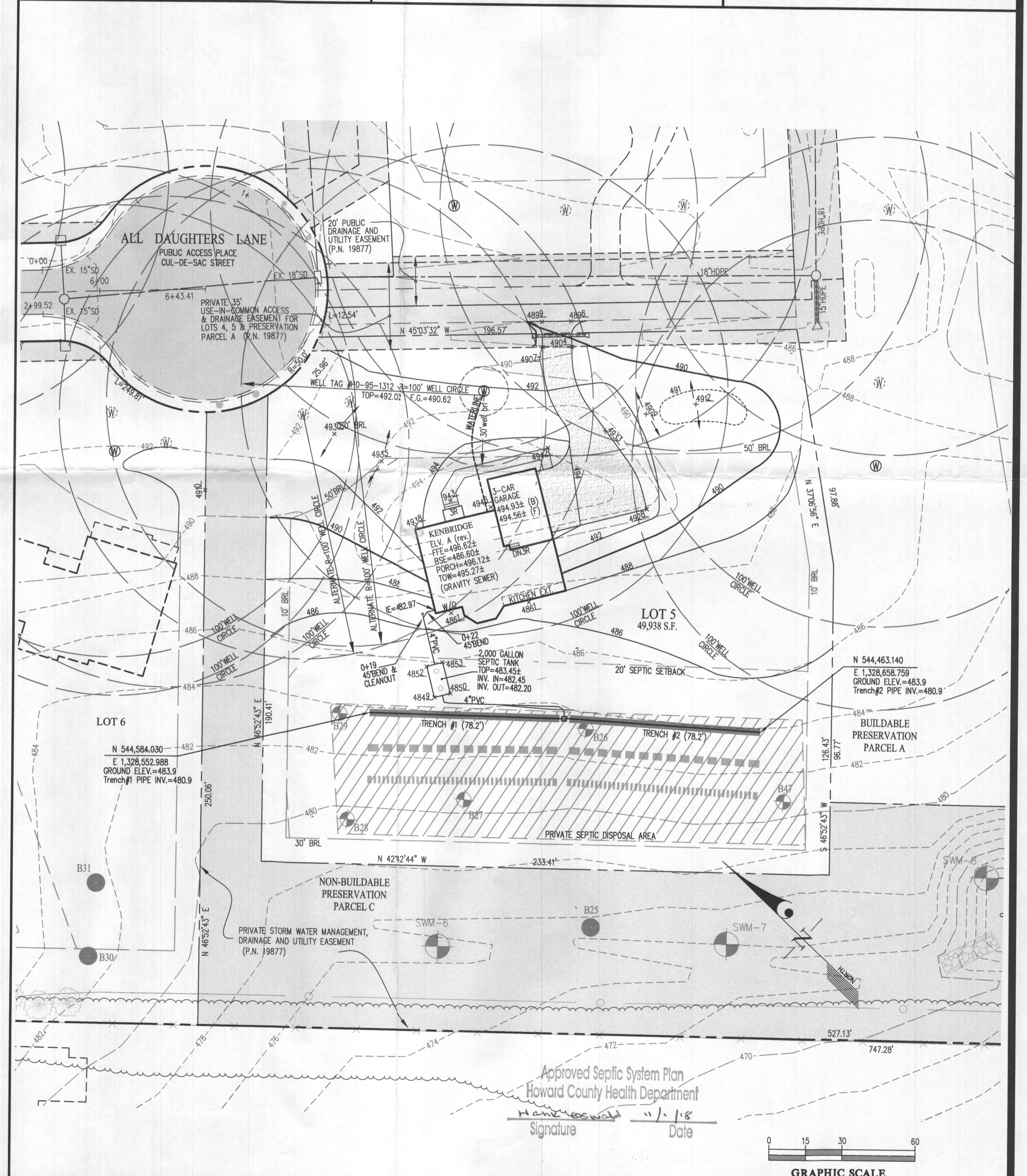
NOTES:

- 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.
- THE EXISTING WELL (TAG #95-1312) HAS BEEN FIELD LOCATED BY GLW AND IS ACCURATELY SHOWN ON THIS PLAN.
- 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.

VICINITY MAP
SCALE: 1" = 2,000'

BENCHMARKS

410C	ELEV. 468.374	N = 543,290.6332	E = 1,331,697.8591
410B	ELEV. 475.304	N = 544,580.3747	E = 1,330,741.3820



GLW
PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BAL: 410-880-1620 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY:					
MBT					
DRAWN BY:					
KLP					
CHECKED BY:					
CKC					
DATE		REVISION		BY	APP'R.

PREPARED FOR:
MB BROWNS BRIDGE CT, LLC
1686 E. GUDE DRIVE
ROCKVILLE, MARYLAND 20850
PH: 301-762-9511
ATTN: MARC QUINT

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS 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. 12785.

EXPIRATION DATE: MAY 28, 2020

10/24/18

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

ORCHARD ESTATES
LOT 5 (12414 All Daughters Lane)
PLAT No. 19876-19877

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=30'	RR-DEO	15112
DATE	TAX MAP - GRID	SHEET
OCT. 2018	40 - 18	1 OF 1