

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: 7/17/17 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 564404

APPROVAL DATE: 7/26/17 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 2033 Drovers Lane

SUBDIVISION: Vista Ridge

LOT: _____ TAX ID: _____

CONTRACTOR: Fogle's Septic Clean Inc.

EMAIL: kim@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

PROPERTY OWNER: DR Horton, Inc.

EMAIL: _____

OWNER ADDRESS: 1356 Beverly Road Suite 300, McLean, VA 22101

PHONE: 571-723-0813

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Mayer Bro, Inc.

PUMP MODEL: N/A

PUMP SIZE: N/A

PUMP TANK CAPACITY: N/A

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

TRENCHES:	LINEAR FEET REQUIRED: <u>208</u>	INLET DEPTH: <u>3.5' 4'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>7</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	<u>Install 3x70' trenches.</u>	

ISSUED BY: Hank Oswald

ISSUE DATE: 7/17/17 EXPIRATION DATE: 7/17/18

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

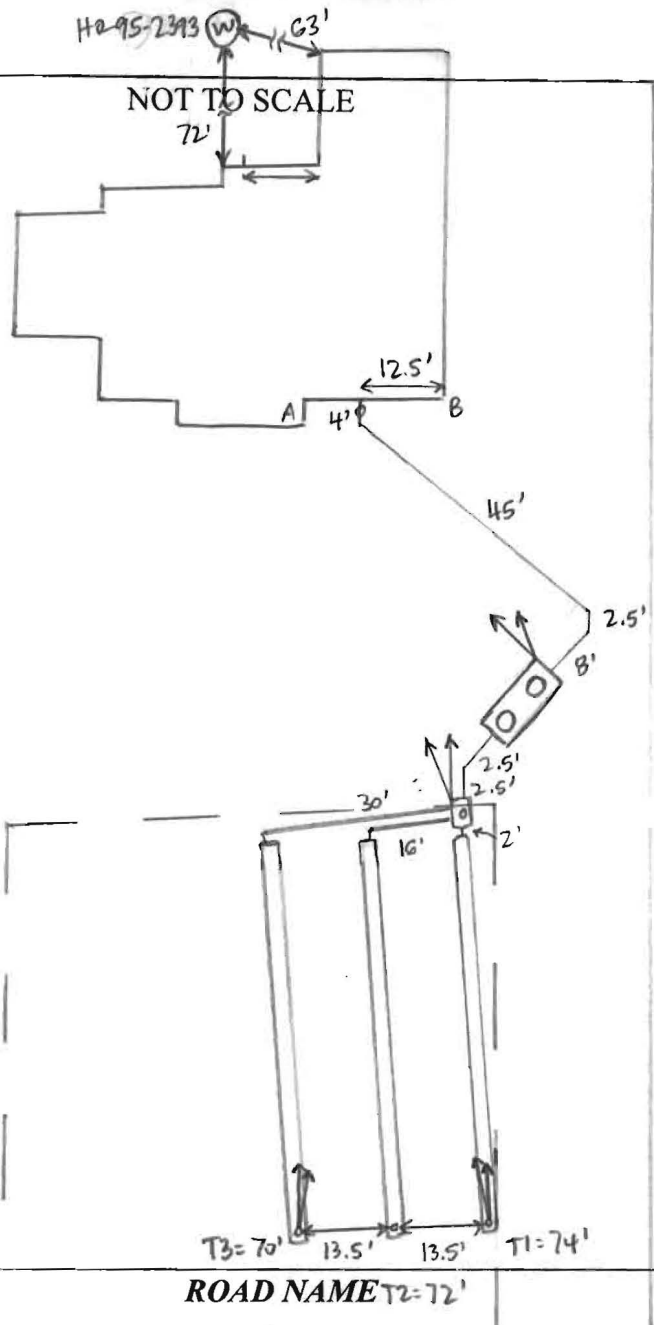
ELECTRICAL PERMIT ISSUED E AKF

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.



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		216'
ABSORPTION AREA		648' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5-3'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	5-29-17
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY GAL	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

7/18/17 Met Fogle's on site for tank layout. Jason with DR Homes also present. Staked a tank location as shown on plan, keeping out of swale. SDA staked but needs to be cleared before layout. (SC) 7/21/17 Met Fogle's on site for trench layout. Install 3x70' trenches on center per plan - all SDA stakes present. (SC)

INSTALLATION: 7/19/17 Tank set, pipe laid from house to tank. Need house connection. (SC)

7/21/17 D-box installed + connected to tank. T3 installed + left open for inspection - 3' wide, 3.5' to stone. (SC) 7/24/17 T2 + T3 installed, left open @ end + T1 left open for inspection. 3' wide, 3.5' to stone. Levelled speed levelers in D-box. T3 observation port is cracked. Need T3 observation port fixed + house connection. (SC) 7/25/17 T3 observation pipe fixed. (SC) 7/26/17 House connection made. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 7/26/17

PART OF PUBLIC FOREST
CONSERVATION EASEMENT #1A,
RETENTION 2.97 ACRES

GRID NORTH

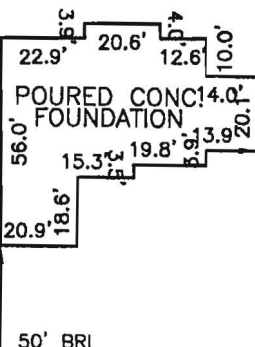
N00° 06' 47"E N0743'00"E
34.10'

88.46'

LOT 19

LOT 17

LOT 18



WELL TAG # ⊗
HO-95-2393

10' PUBLIC TREE
MAINTENANCE EASEMENT

6' PUBLIC
DRAINAGE &
UTILITY EASEMENT

VARYING WIDTH
PUBLIC DRAINAGE &
UTILITY EASEMENT

S25°09'43"W 115.29'
DROVERS LANE
(40' PUBLIC ACCESS PLACE)
DESIGN SPEED 25 MPH

TOP OF FOUNDATION WALL = 641.3'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

SURVEYOR'S CERTIFICATE

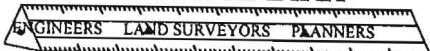
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2019 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 04/28/2017.

Donald A. Mason

DONALD A. MASON
PROFESSIONAL LAND SURVEYOR
MARYLAND REG. No. 21320

FEMA FIRM No. 24027C0055D
ZONE: X
DATED: 11/06/2013

BENCHMARK



ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-485-6105 (F) 410-485-6844

WWW.BEI-CVLENGINEERING.COM

Wall Check

OK

WALL CHECK

2/12/17 B.M.

VISTA RIDGE

A RESUBDIVISION OF LOTS 1-4,
CREATING LOTS 5 THRU 21, AND
PRESERVATION PARCELS "A"

THROUGH "D"

PLAT No. 22434

LOT No. 18

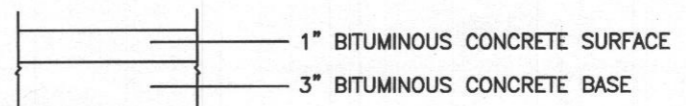
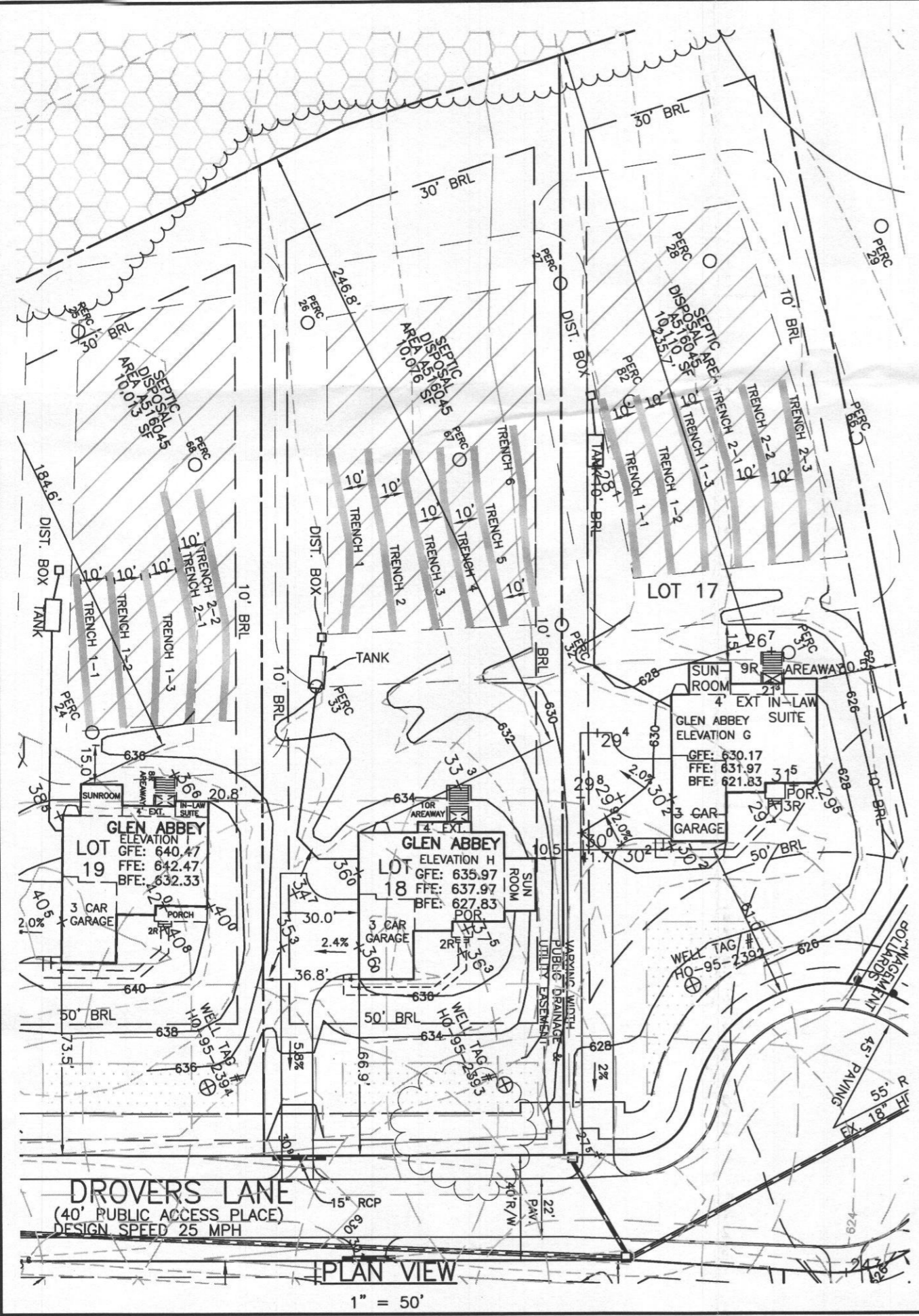
2033 DROVERS LANE

4TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

FIELD OBS. BY AS
COMP. BY EWF
DRAWN BY EWF

SCALE: 1" = 50' DATE: 04/28/2017



FULL DEPTH BITUMINOUS CONCRETE
PAVING SECTION
 NOT TO SCALE

BUILDING PERMIT PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR VISTA RIDGE, PLAT Nos. 22430-22435. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY ACCUBID, INC., ON OR ABOUT JUNE 27, 2013.
4. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
5. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
6. THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-2393, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
7. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
8. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
9. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED TO BE PROVIDED BY BOTH POND #1, A POCKET POND, AND IN POND #2, A MICORPOOL ED POND.

LEGEND

- ChC2 SOILS CLASSIFICATION
- SOILS DELINEATION
- 480
478 EXISTING CONTOURS (BEI)
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- SEPTIC FIELD
- WELL BOX
- EXISTING WELL
- FOREST CONSERVATION EASEMENT
- PERC FAILING PERCOLATION TEST
- PERC PASSING PERCOLATION TEST

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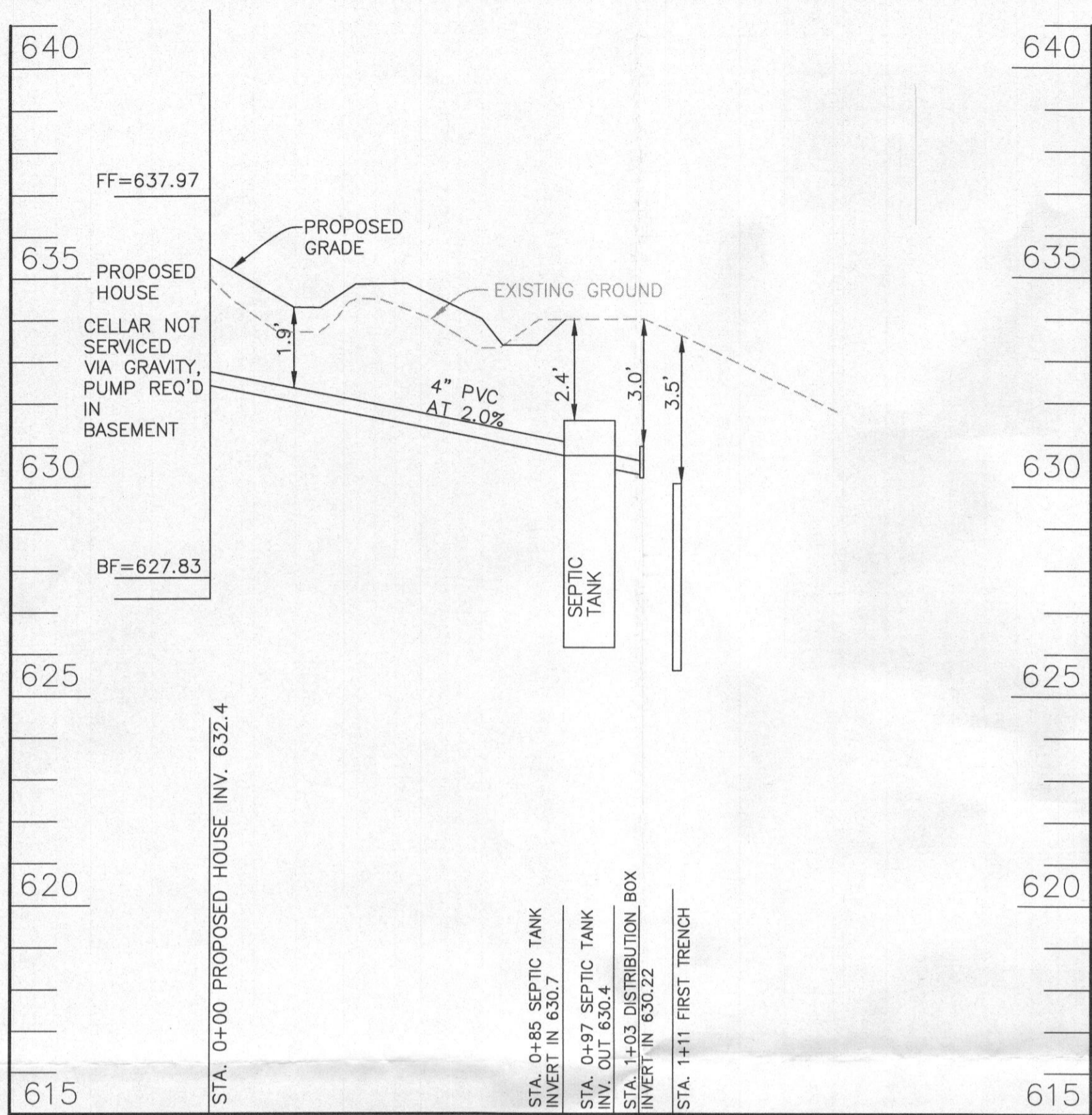
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 45577, Expiration Date: 06-08-2018.



BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 ▲ FAX: 410-465-6644
 BEI@BEI-CVILENGINEERING.COM

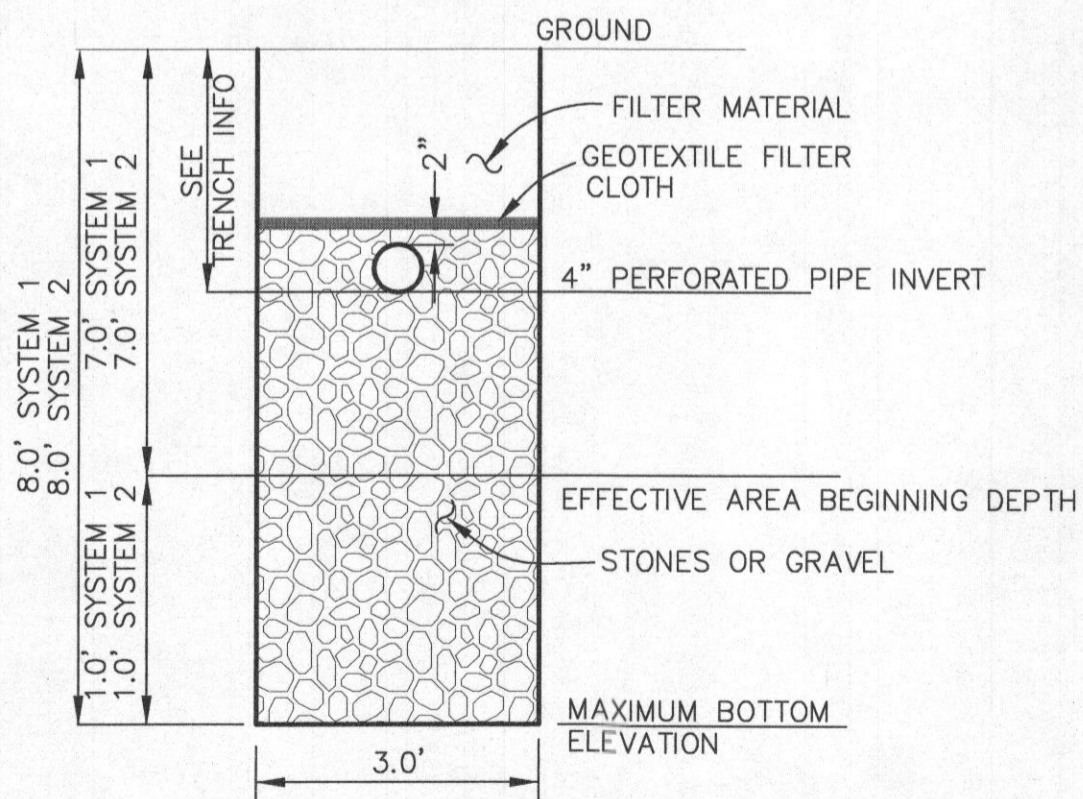
OWNER/BUILDER:		PROJECT:	
DR HORTON, INC. 1356 BEVERLY ROAD SUITE 300 McLEAN, VA 22101 PHONE: 571-723-0813 FAX: 800-551-5015		VISTA RIDGE LOT 18	
Approved Septic System Plan Howard County Health Department Mark Oswald 2/16/17 Signature Date		LOCATION: 2033 DROVERS LANE COOKSVILLE, MD 21723 TAX MAP No. 8 - BLOCK No. 23 - PARCEL No. 176 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER 04-595483	
DESIGN: CBD		TITLE: SEPTIC PERMIT PLAN	
DRAFT: CBD		HOUSE TYPE: GLEN ABBEY	
SCALE: 1" = 50'		DATE: FEBRUARY, 2017	PROJECT NO. 1635
		DRAWING 1 OF 2	



SEWER PROFILE - LOT 18
SCALE: VERTICAL 1"=3', HORIZONTAL 1"=30'

TRENCH INFORMATION

TRENCH	LENGTH	GROUND ELEVATION	INVERT ELEVATION	MAX. BOTTOM ELEV.
TRENCH 1	70 LF	633.6	630.1	625.6
TRENCH 2	70 LF	633.2	629.9	625.2
TRENCH 3	70 LF	632.3	629.3	624.3
TRENCH 4	70 LF	631.8	628.8	623.8
TRENCH 5	70 LF	631.4	628.4	623.4
TRENCH 6	70 LF	629.9	626.9	621.9



TYPICAL TRENCH DETAIL
NOT TO SCALE

INITIAL SYSTEM	
Number of Bedrooms	6
Application Rate	1.2 gpd/sf
Effective Area Beginning Depth	7 ft
Bottom Max Depth	8 ft
Design Flow	900 gpd
Drainage Field square footage	750 sf
Sidewall reduction credit	0.83
Trench width	3
Effective Area Depth	1
Linear Length of trench Required	208 lf

1st REPLACEMENT SYSTEM	
Number of Bedrooms	6
Application Rate	1.2 gpd/sf
Effective Area Beginning Depth	7 ft
Bottom Max Depth	8 ft
Design Flow	900 gpd
Drainage Field square footage	750 sf
Sidewall reduction credit	0.83
Trench width	3
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Linear Length of trench Required	208 lf

SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS.
WWW.MAYERPRECAST.COM
EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

THIS PLAN IS FOR SEPTIC DESIGN ONLY

DESIGN DATA & GENERAL NOTES

- [1] Concrete strength $f_c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type III per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-98 & C 494-92.
- [4] Reinforcing per ASTM A195. Min. 1-1/2" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, 4" base, & 6" top thickness.
- [7] Max 3" of cover
- [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

Mayer Bros., Inc.
6264 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438
www.mayerbrosprecast.com

2,000 GALLON SEPTIC TANK 2-Compartment
Stock Item [Approx. 19,900 lbs]

Dwg. No. 2000-2C No Scale Aug 11, 2008

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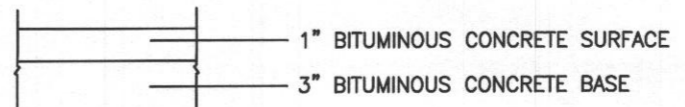
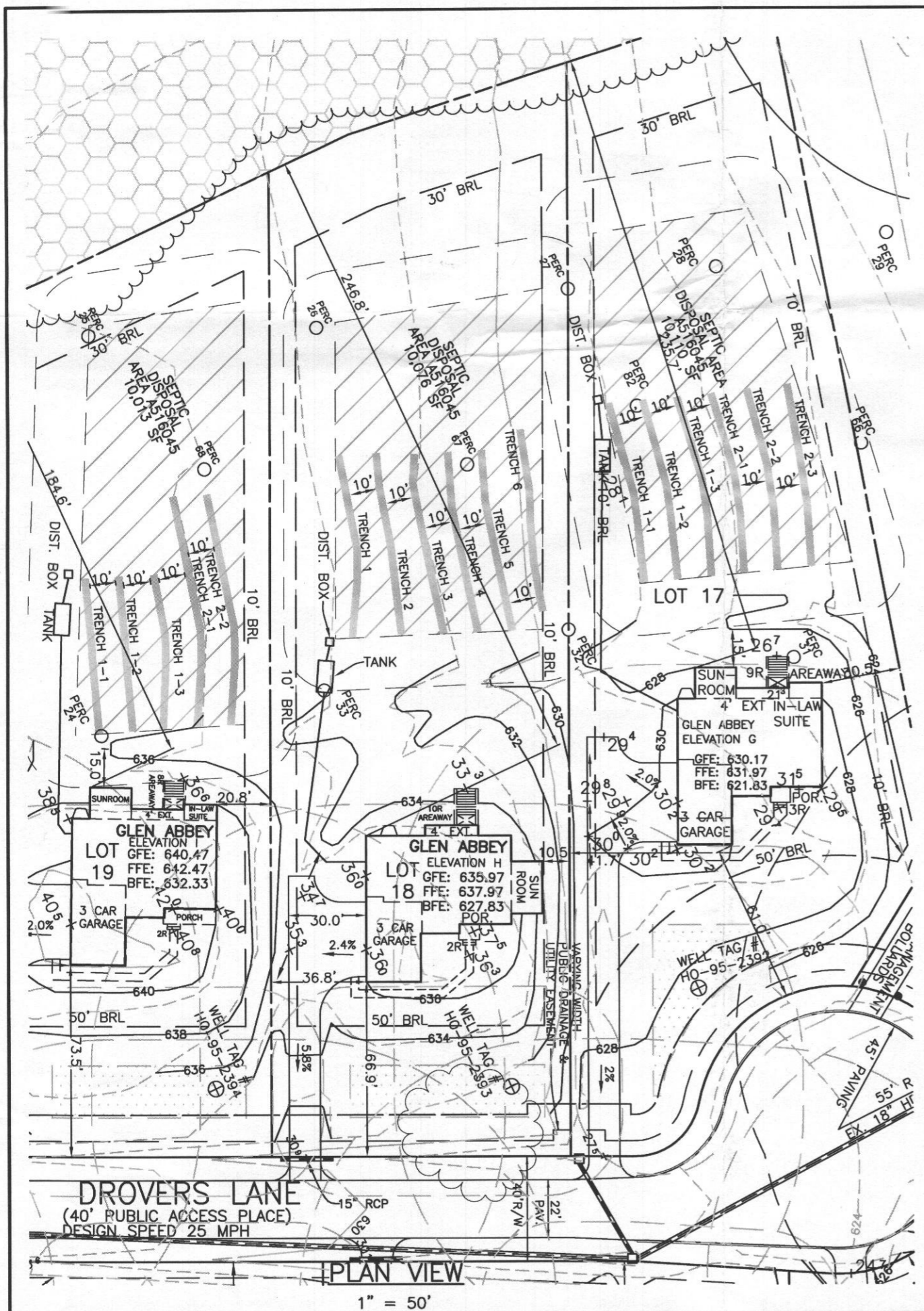
BENCHMARK ENGINEERING, INC.
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 ▲ FAX: 410-465-6644
BEI@BEI-CIVILENGINEERING.COM

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. 45577, Expiration Date: 06-08-2018.

Professional Engineer Seal: JOHN M. CARVIN, No. 45577, PROFESSIONAL ENGINEER

OWNER/BUILDER: DR HORTON, INC. 1356 BEVERLY ROAD SUITE 300 McLEAN, VA 22101 PHONE: 571-723-0813 FAX: 800-551-5015	PROJECT: VISTA RIDGE LOT 18
LOCATION: 2033 DROVERS LANE COOKSVILLE, MD 21723 TAX MAP No. 8 - BLOCK No. 23 - PARCEL No. 176 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER 04-595483	TITLE: SEPTIC PLAN
HOUSE TYPE: GLEN ABBEY	DATE: FEBRUARY, 2016
DESIGN: CBD DRAFT: CBD	PROJECT NO. 1635 DRAWING <u>2</u> OF <u>2</u>
SCALE: 1" = 30'	



PAVING SECTION
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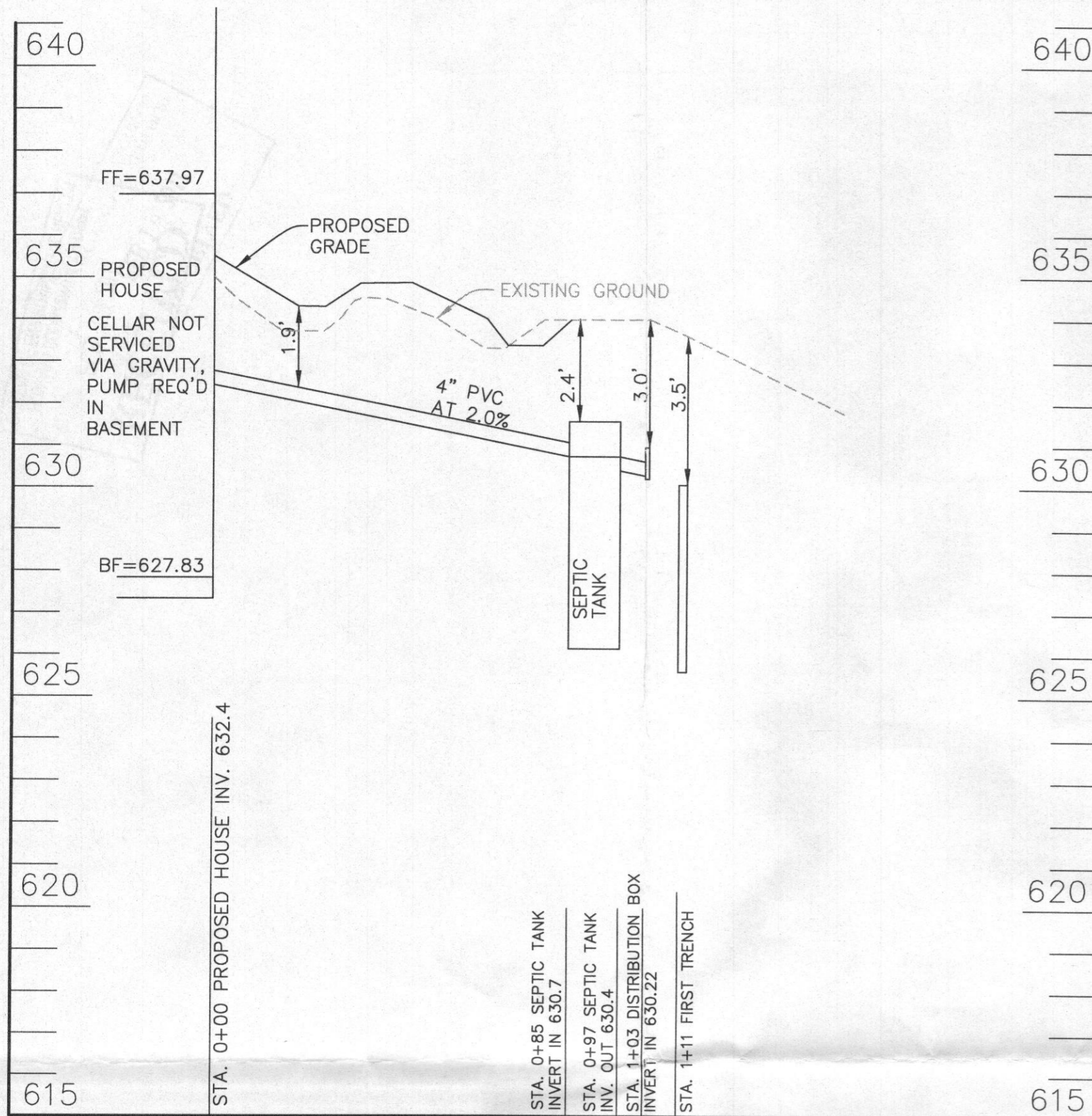
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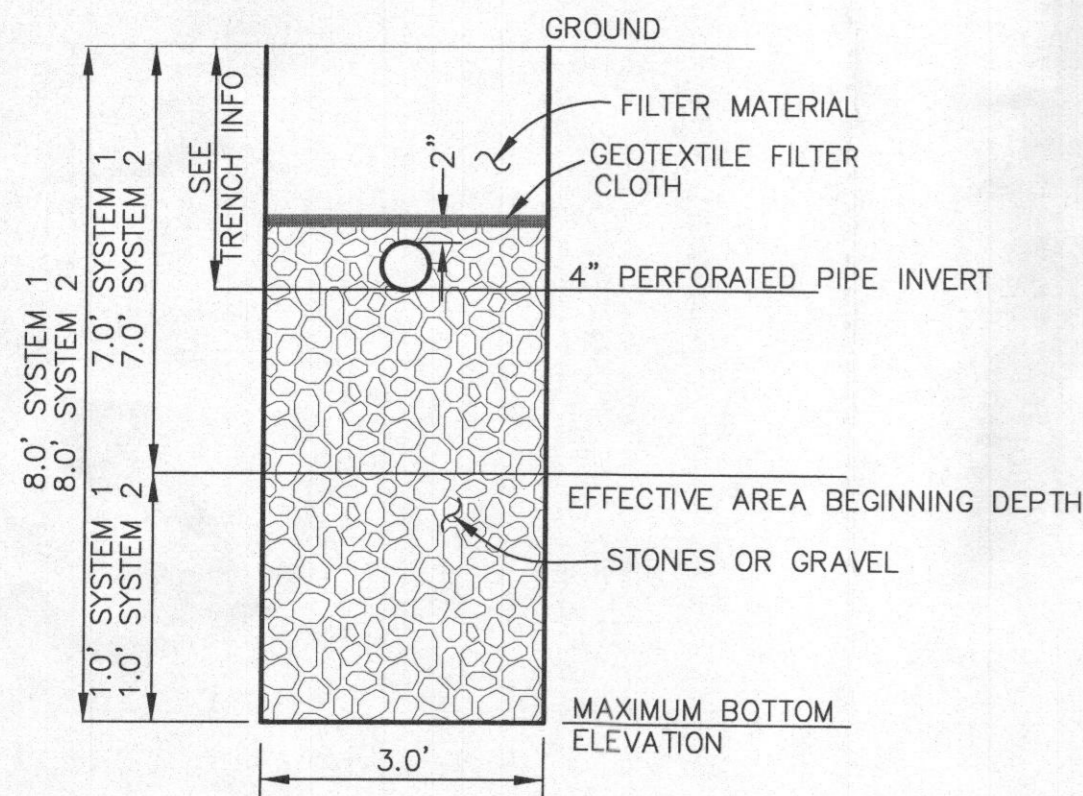
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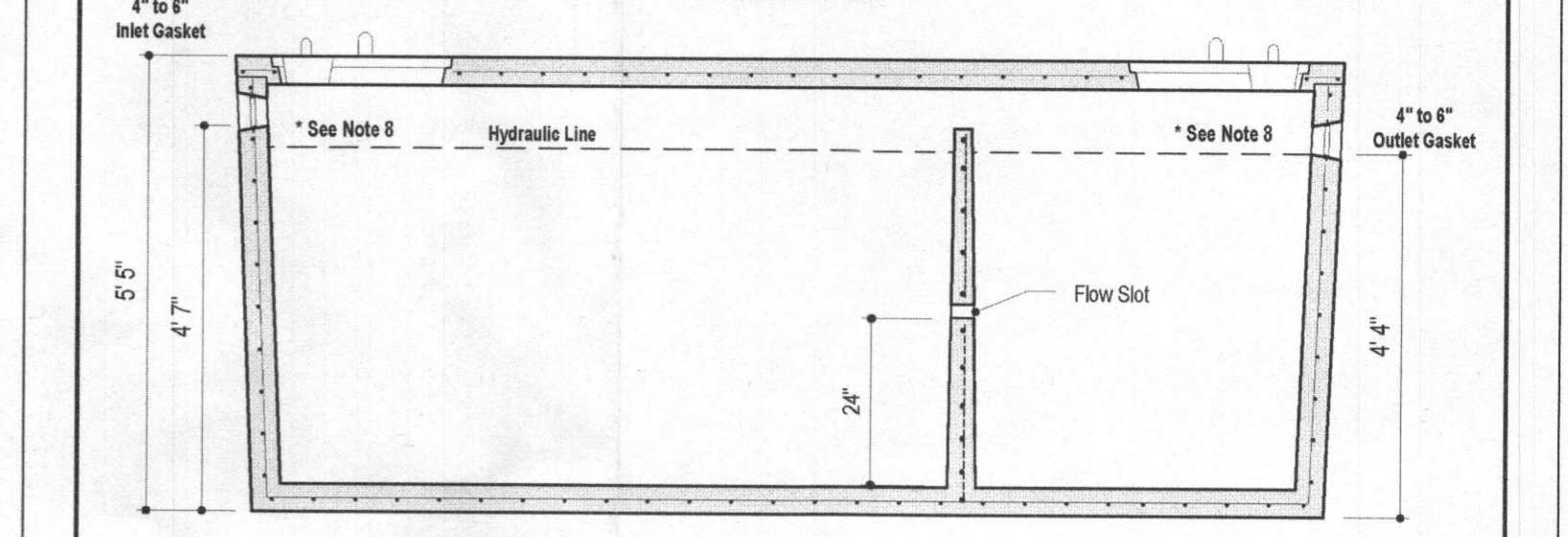
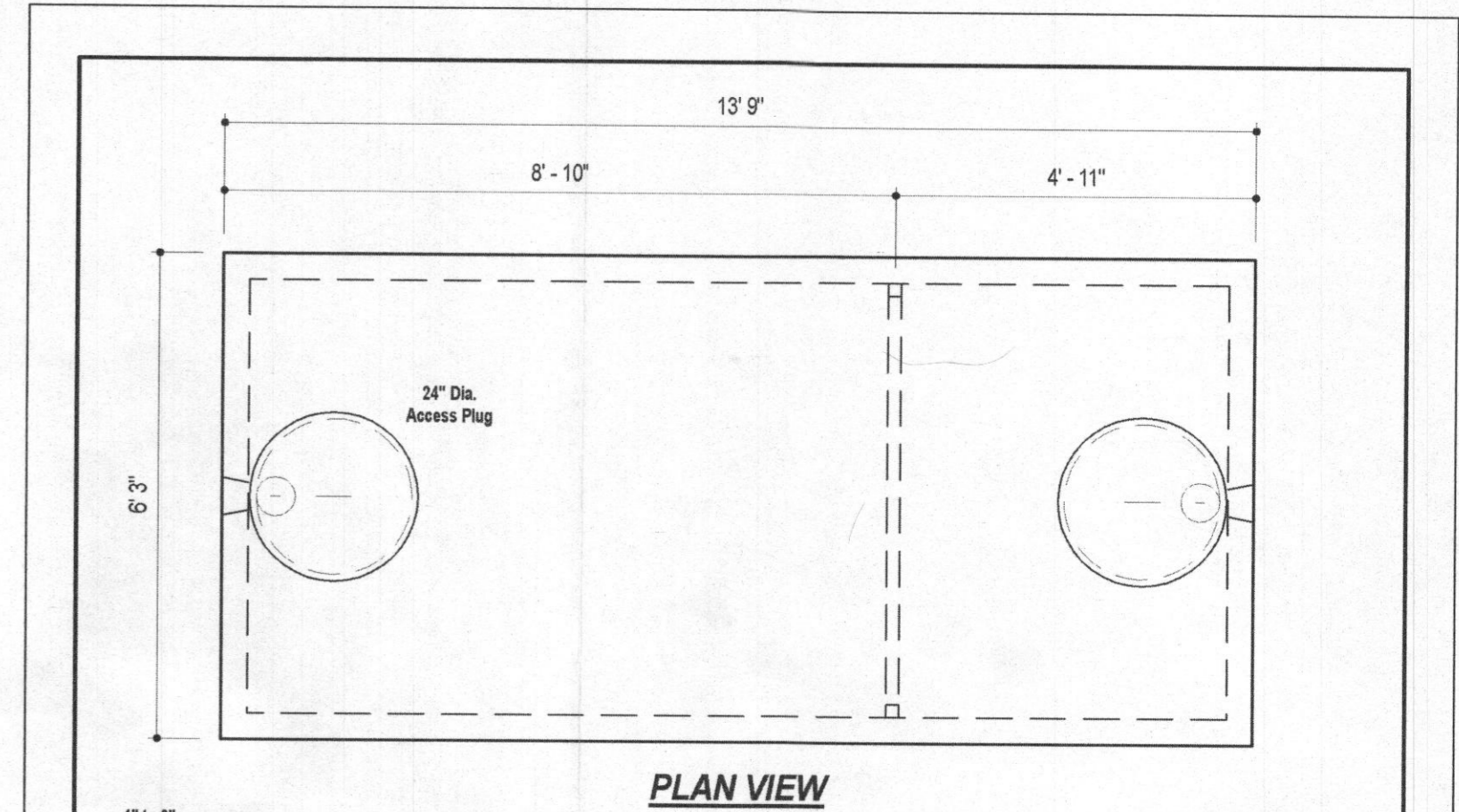
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GROUND ELEVATION 633.6	GROUND ELEVATION 633.2	GROUND ELEVATION 632.3	GROUND ELEVATION 631.8	GROUND ELEVATION 631.4	GROUND ELEVATION 629.9
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MAX. BOTTOM ELEV. 625.6	MAX. BOTTOM ELEV. 625.2	MAX. BOTTOM ELEV. 624.3	MAX. BOTTOM ELEV. 623.8	MAX. BOTTOM ELEV. 623.4	MAX. BOTTOM ELEV. 621.9



TYPICAL TRENCH DETAIL
NOT TO SCALE

INITIAL SYSTEM		
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