

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: 10/2/18 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 5640/68

APPROVAL DATE: 11/7/18 SEC **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 13607 Curtis Vista Way

SUBDIVISION: Brighton Mill II

LOT: 2

TAX ID:

05-600583

CONTRACTOR: South Carroll Backhoe

EMAIL: sebackhoe@comcast.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Rd. Westminster, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: Highland Development Corporation

EMAIL: _____

OWNER ADDRESS: P.O. Box 228, Clarksville, MD 21029

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Mayer Bros Babylon

PUMP MODEL: N/A

PUMP SIZE

N/A

PUMP TANK CAPACITY:

N/A

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>132</u>	INLET DEPTH: <u>3.5 4'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</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: Dana Bernard

ISSUE DATE: 10/2/18

EXPIRATION DATE: 10/2/19

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.

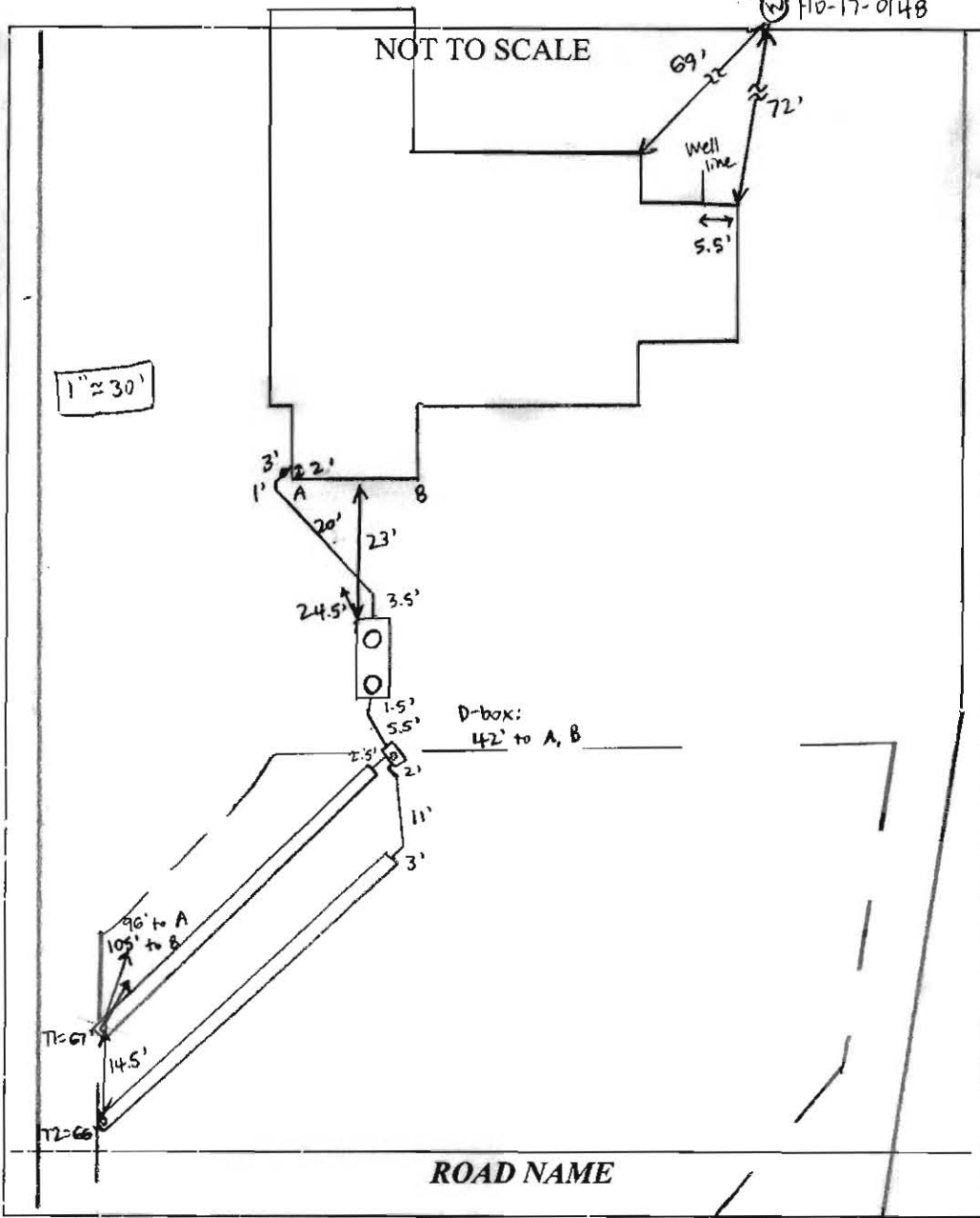
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

110-17-0148

NOT TO SCALE

1" = 30'



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	6.5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		133'
ABSORPTION AREA		417' + 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	9-24-18

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:

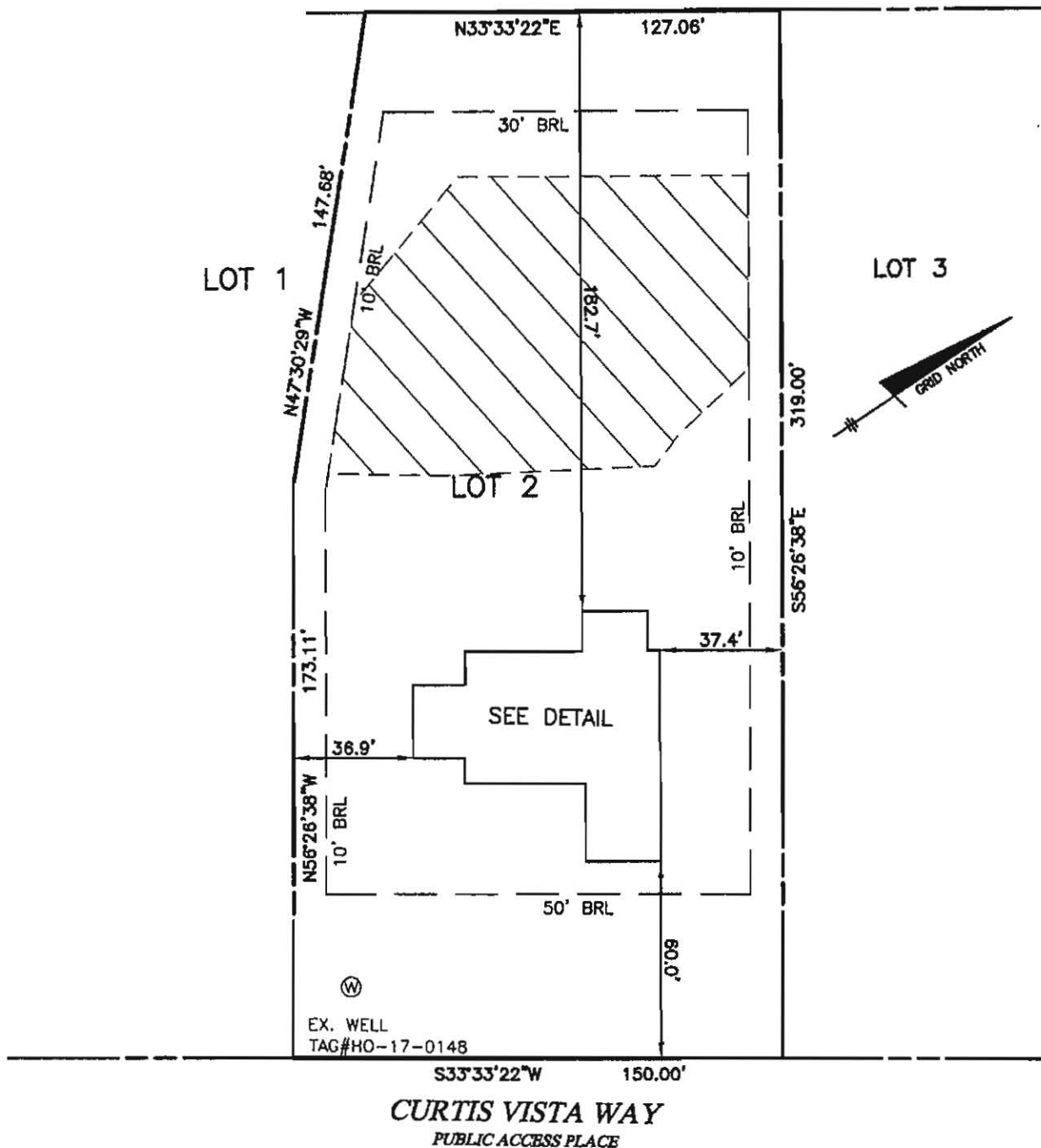
10/30/18 Met S. Carroll on site for layout. SDA corners + tank staked. Shot elevations and cannot make fall to trenches with 3.5' inlet. DK for inlet to be 4' and bottom 6.5'. Shot center and laid out 2 * 66' trenches. Move tank downhill to keep 3' cover - builder DK with new location. (SC)

INSTALLATION:

11/1/18 Tank set, house connection made. Contractor will reduce grade to be 3' over tank - front has a few inches more of cover. (SC) 11/7/18 T2 installed - left open at ends for inspection, S. Carroll adding stone to T1. 3' wide, 3.5' to stone. Levelled speed levelers in D-box. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 11/7/18

P/O NON-BUILDABLE
 PRESERVATION PARCEL 'B'
 TO BE PRIVATELY OWNED WITH THE
 HOA AND HOWARD COUNTY, MARYLAND,
 AS EASEMENT HOLDERS
 9.57 ACRES TOTAL
 8.19 ACRES THIS SHEET



TOP OF FOUNDATION WALL = 514.8'
 OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

SURVEYOR'S CERTIFICATE

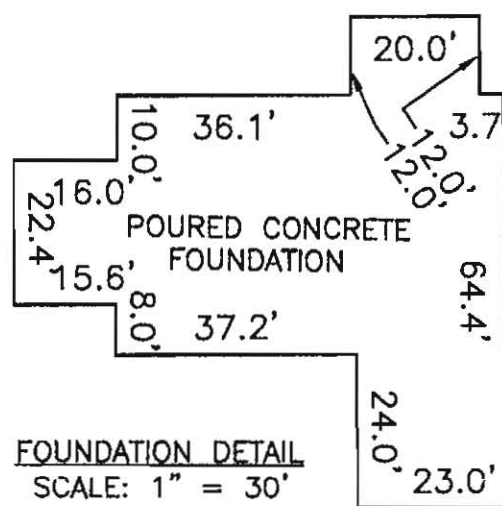
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2019 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, 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 09/12/2018.

Donald A. Mason
 DONALD A. MASON
 PROFESSIONAL LAND SURVEYOR
 MARYLAND REG. No. 21320
 STATE OF MARYLAND
 PROFESSIONAL LAND SURVEYORS

FEMA FIRM No. 2402700130D
 ZONE: X
 DATED: 11/6/2013

BENCHMARK
ENGINEERS LAND SURVEYORS PLANNERS
ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 & (F) 410-465-6644
 WWW.BEI-CIVLENGINEERING.COM

*10/2/18 - wall
 check okay.
 H.O.*



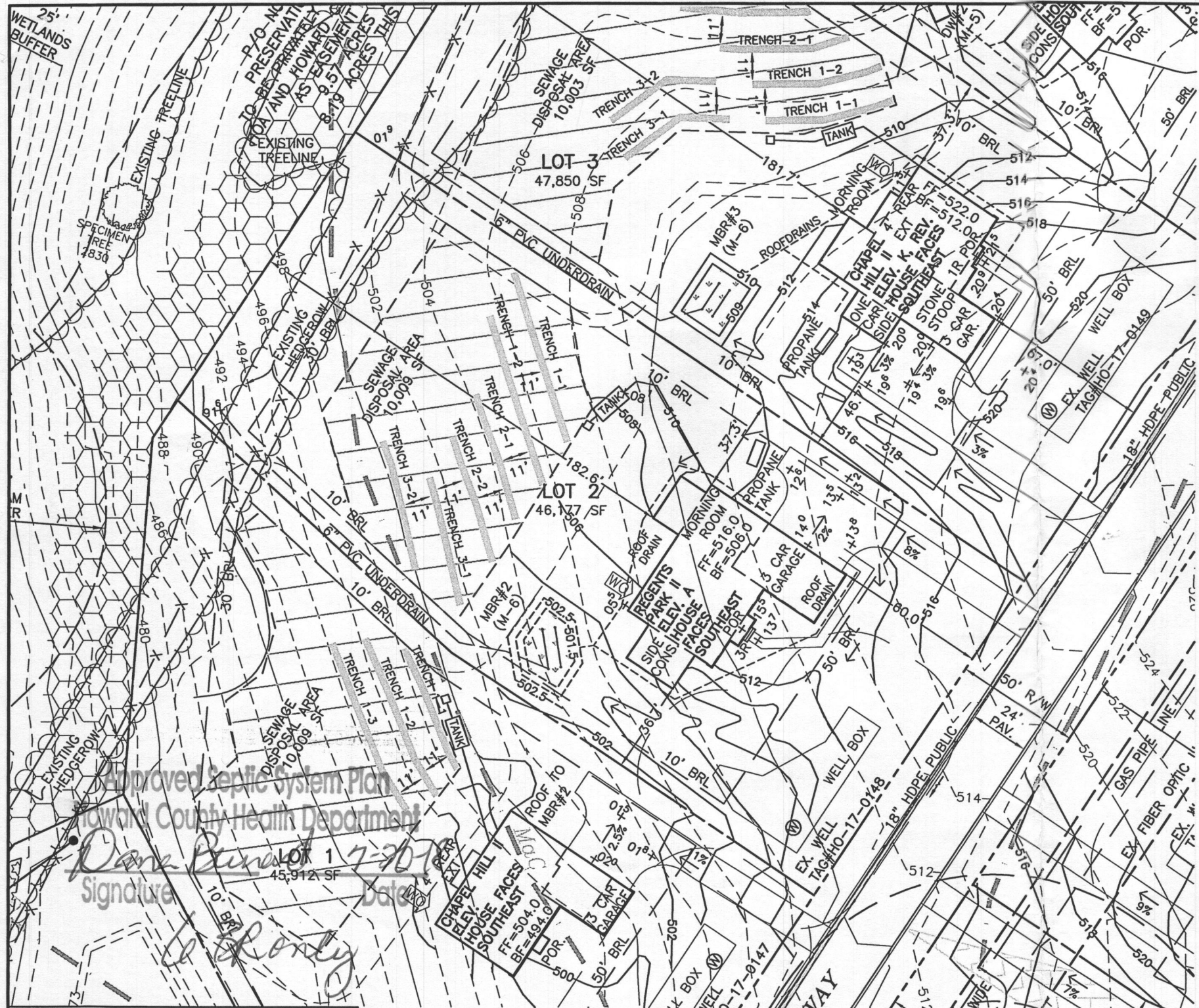
FOUNDATION DETAIL
 SCALE: 1" = 30'

WALL CHECK

BRIGHTON MILL II
LOTS 1 THROUGH 12
PLAT No. 24470
LOT No. 2

13607 CURTIS VISTA WAY

5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FIELD OBS. BY DH
 COMP. BY EWF
 DRAWN BY EWF SCALE: 1" = 50' DATE: 09/12/2018



LEGEND

SOILS CLASSIFICATION *GgC*

SOILS DELINEATION

PROPOSED CONTOURS

EXISTING CONTOURS

LIMIT OF WETLANDS

EXISTING WOODS LINE

PROPOSED WOODS LINE

EXISTING STRUCTURE

EXISTING WELL

EXISTING WELL BOX

EXISTING SEWAGE DISPOSAL AREA

EXISTING PRIVATE PIPE LINE EASEMENT AREA

- ### ONSITE SEWAGE DISPOSAL PLAN NOTES:
1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR BRIGHTON MILL II, PLAT Nos. 24469-24474. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
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 3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY F-17-054, ON OR ABOUT MAY, 2017.
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 6. THE EXISTING WELL SHOWN ON THIS PLAN, HO-17-0148, 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.
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 9. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY ONE MICRO-BIORETENTION FACILITY. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.
 10. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.
 11. FOR DEVELOPMENT LANDSCAPING SEE ROAD CONSTRUCTION PLANS F-17-054.

TRENCH DATA - LOT 2

INITIAL SYSTEM	FIRST REPLACEMENT	SECOND REPLACEMENT
TRENCH 1-1	TRENCH 2-1	TRENCH 3-1
LENGTH 69.5 ft	LENGTH 52.1 ft	LENGTH 52.1 ft
GROUND ELEVATION 506.7	GROUND ELEVATION 504.4	GROUND ELEVATION 501.6
INVERT ELEVATION 503.7	INVERT ELEVATION 502.4	INVERT ELEVATION 498.6
MAX BOTTOM ELEVATION 500.7	MAX BOTTOM ELEVATION 498.4	MAX BOTTOM ELEVATION 494.6
TRENCH 1-2	TRENCH 2-2	TRENCH 3-2
LENGTH 69.5 ft	LENGTH 52.1 ft	LENGTH 52.1 ft
GROUND ELEVATION 505.6	GROUND ELEVATION 503.2	GROUND ELEVATION 500.2
INVERT ELEVATION 502.6	INVERT ELEVATION 501.2	INVERT ELEVATION 497.2
MAX BOTTOM ELEVATION 499.6	MAX BOTTOM ELEVATION 497.2	MAX BOTTOM ELEVATION 493.2

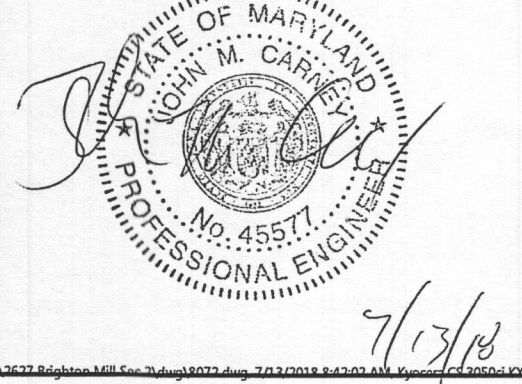
SEPTIC INVERT CHART - LOT 2

INV @ HOUSE	505.6
GROUND @ HOUSE	512.0
INV IN TANK	504.4
INV OUT TANK	504.1
TOP OF TANK	505.3
GROUND OVER TANK	508.0
INV IN DIST BOX	503.9
INV OUT DIST BOX	503.8
GROUND AT DIST BOX	507.2

HEALTH DEPARTMENT SPEC SHEET INFORMATION - LOT 2

System	Application Rate	Effective Depth	Bottom Depth
Initial	1.2	3.5	6.0
1st Replacement	1.2	2.0	6.0
2nd Replacement	1.2	3.0	7.0

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: 06-08-2020.

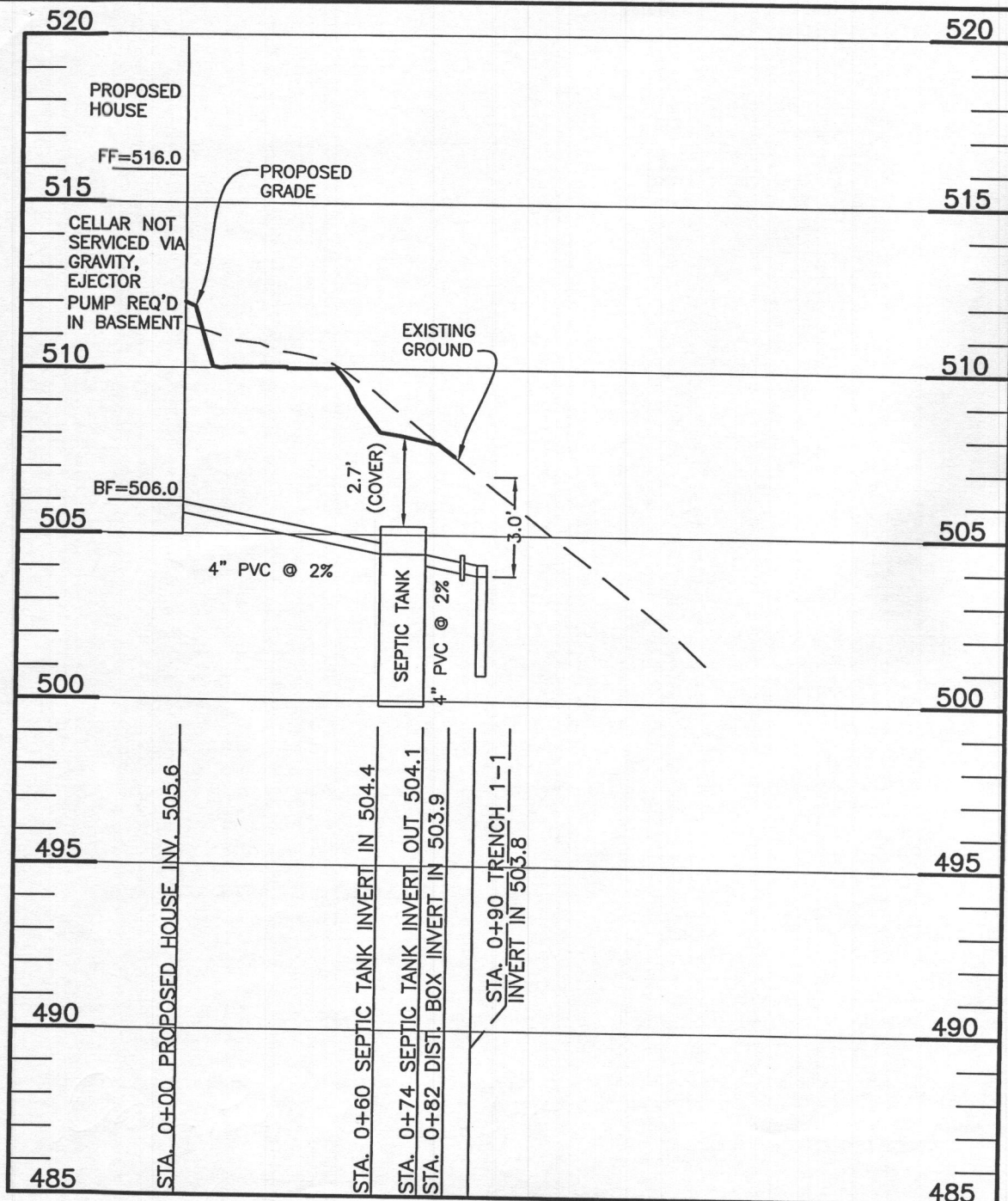


PLAN VIEW
1" = 50'

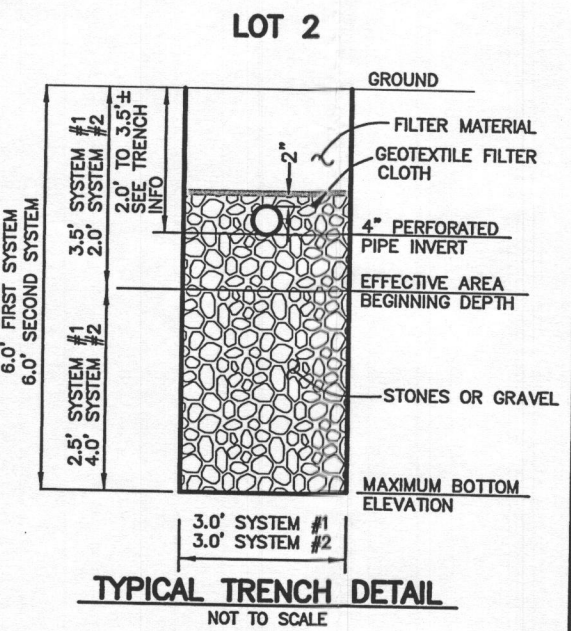
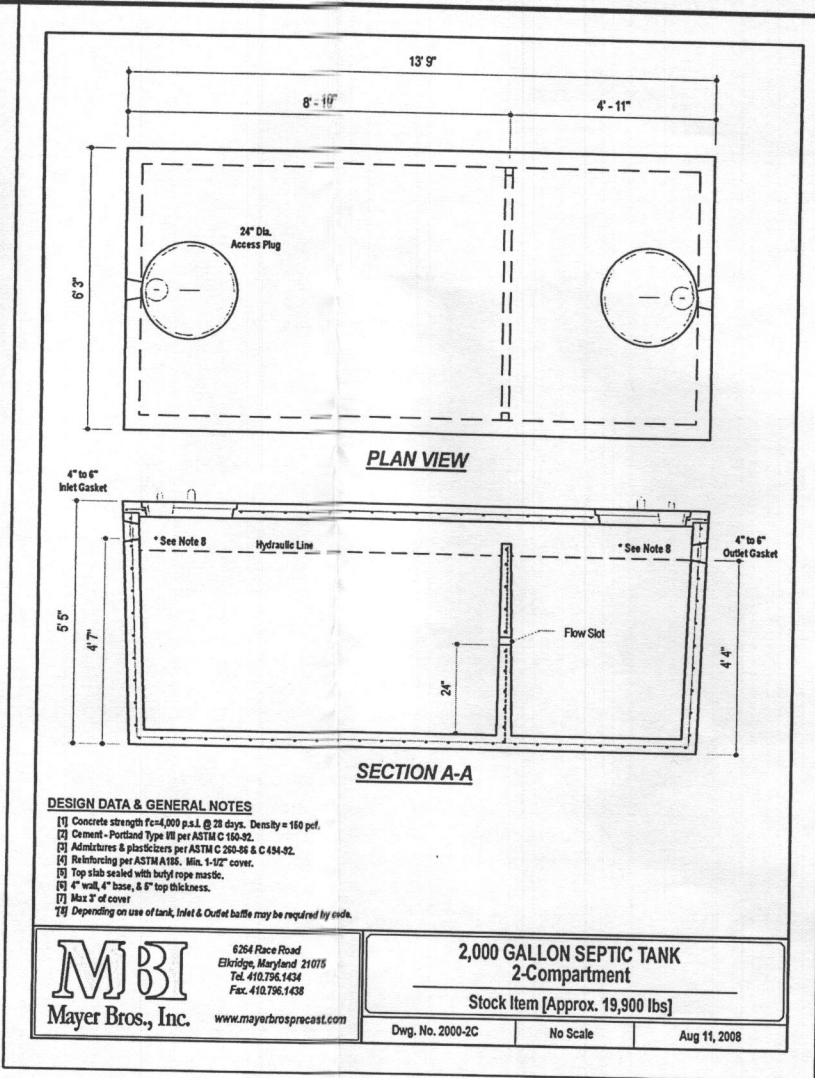
BUILDER: NV HOMES, INC. 9720 PATUXENT WOODS DRIVE SUITE 100 COLUMBIA, MD 21046 410-379-5956	OWNER: HIGHLAND DEVELOPMENT CORP P.O. BOX 228 CLARKSVILLE, MARYLAND 21029 410-365-0414
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BENCHMARK
ENGINEERS LAND SURVEYORS PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE SUITE 315
ELICOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6644
WWW.BEI-CMILENGINEERING.COM

PROJECT:	BRIGHTON MILL II LOT 2		
LOCATION:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13607 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600583		
TITLE:	ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN		
HOUSE TYPE:	REGENTS PARK II - ELEVATION A		
DATE:	JULY, 2018	PROJECT NO.	2627
SCALE:	AS SHOWN	DRAWING	1 OF 2



LOT 2 SEPTIC
SCALE: 1"=50' HORIZ., 1"=5' VERT.



INITIAL SYSTEM - LOT 2			2nd REPLACEMENT SYSTEM		
Number of Bedrooms	6		Number of Bedrooms	6	
Application Rate	1.2	gpd/sf	Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.5	ft	Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	6.0	ft	Bottom Max Depth	7.0	ft
Design Flow	900	gpd	Design Flow	900	gpd
Drainage Field square footage	750	sf	Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.56		Sidewall Reduction Credit	0.42	
Trench width	3	ft	Trench width	3	ft
Effective Area Depth	2.5	ft	Effective Area Depth	4	ft
Trench Spacing	10	ft	Trench Spacing	11	ft
Linear Length of trench Required	139	lf	Linear Length of trench Required	104	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	2.0	ft
Bottom Max Depth	6.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.42	
Trench width	3	ft
Effective Area Depth	4	ft
Trench Spacing	11	ft
Linear Length of trench Required	104	lf

THIS PLAN IS FOR SEPTIC DESIGN ONLY

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

SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER:

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ELLCOTT CITY, MARYLAND 21043
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HOUSE TYPE:	REGENTS PARK II - ELEVATION A		
DATE:	JULY, 2018	PROJECT NO.	2627
SCALE:	AS SHOWN	DRAWING	2 OF 2

BUILDER:
NV HOMES, INC.
9720 PATUXENT WOODS DR.
SUITE 100
COLUMBIA, MD 21046
410-379-5956

OWNER:
HIGHLAND DEVELOPMENT CORP
P.O. BOX 228
CLARKSVILLE, MARYLAND 21029
410-365-0414



LEGEND

SOILS CLASSIFICATION: GgC

SOILS DELINEATION: [Symbol]

PROPOSED CONTOURS: 480, 478

EXISTING CONTOURS: 480, 478

LIMIT OF WETLANDS: [Symbol]

EXISTING WOODS LINE: [Symbol]

PROPOSED WOODS LINE: [Symbol]

EXISTING STRUCTURE: [Symbol]

EXISTING WELL: [Symbol]

EXISTING WELL BOX: [Symbol]

EXISTING SEWAGE DISPOSAL AREA: [Symbol]

EXISTING PRIVATE PIPE LINE EASEMENT AREA: [Symbol]

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HEALTH DEPARTMENT SPEC SHEET INFORMATION - LOT 2

System	Application Rate	Effective Depth	Bottom Depth
Initial	1.2	3.5	6.0
1st Replacement	1.2	2.0	6.0
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PLAN VIEW
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PROJECT: BRIGHTON MILL II
LOT 2

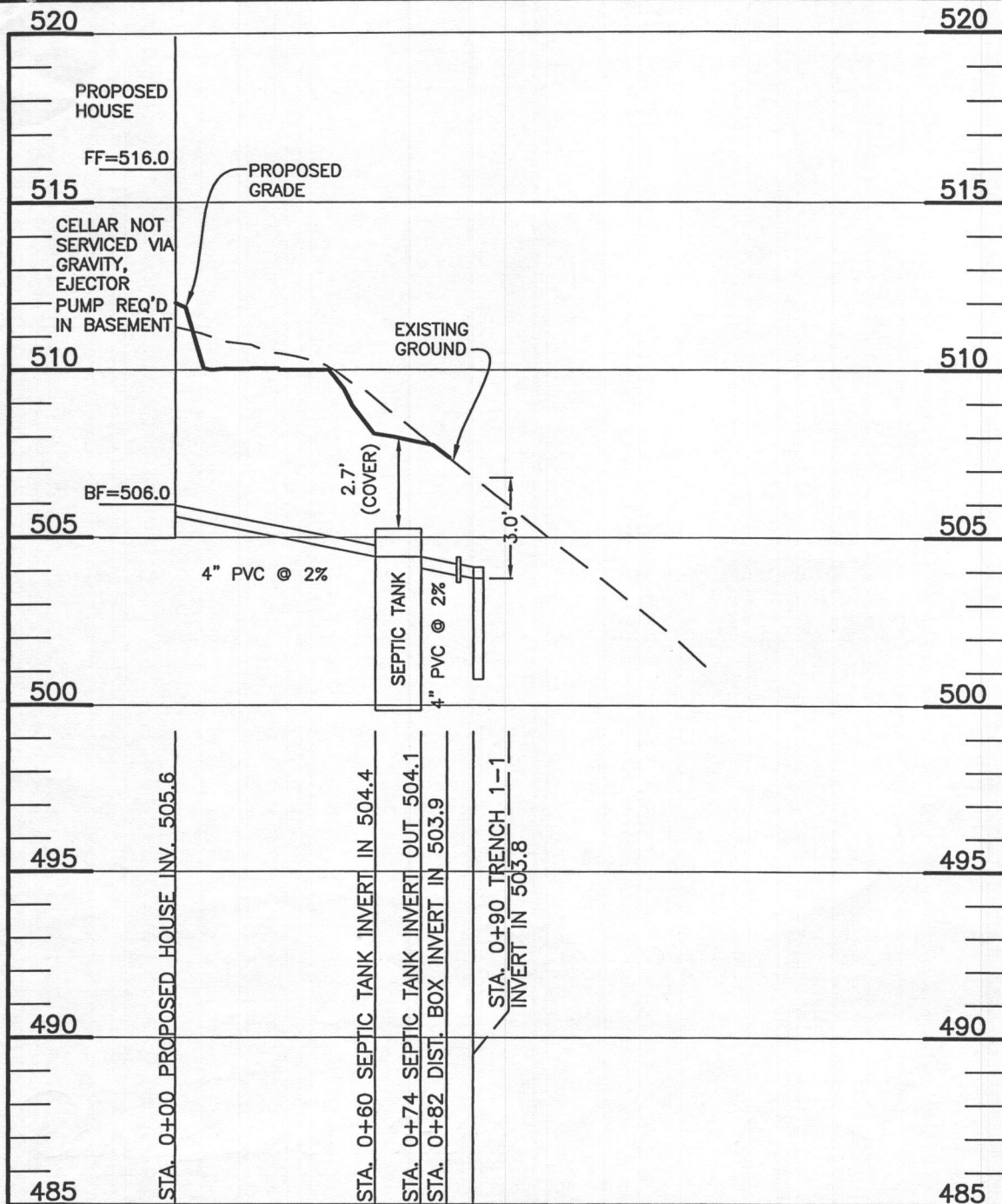
LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO
13607 CURTIS VISTA WAY
CLARKSVILLE, MD 21029
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600583

TITLE: ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

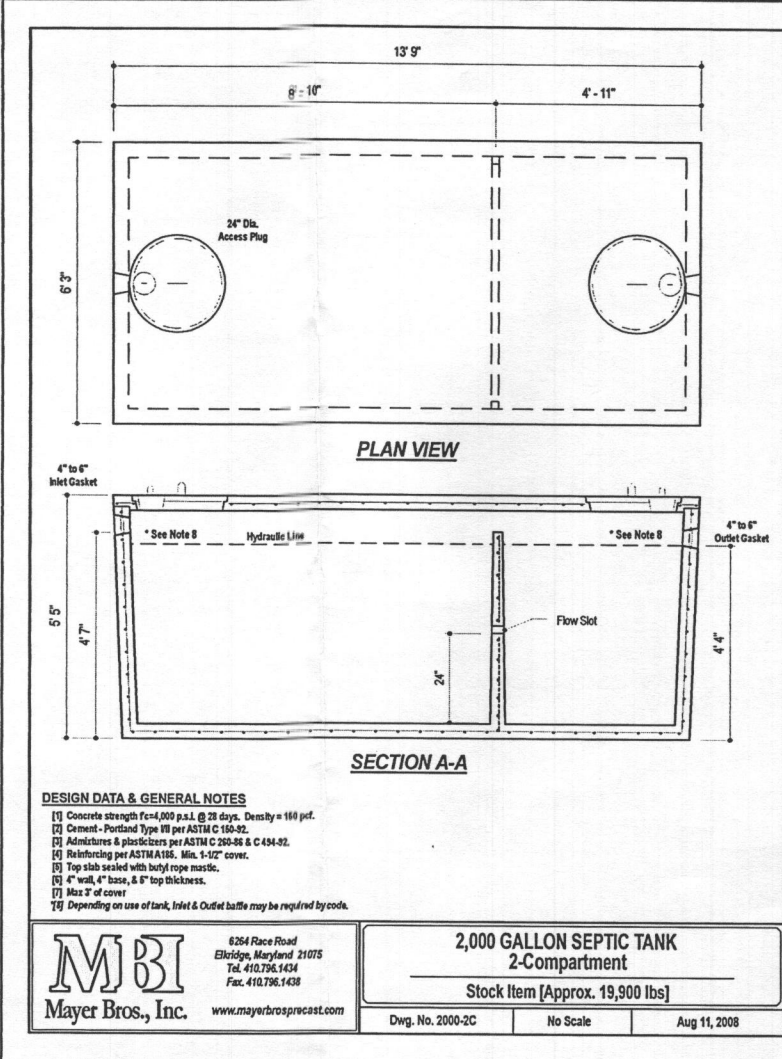
HOUSE TYPE: REGENTS PARK II - ELEVATION A

DATE: JULY, 2018 **PROJECT NO.** 2627

SCALE: AS SHOWN **DRAWING** 1 OF 2



LOT 2 SEPTIC
SCALE: 1"=50' HORIZ., 1"=5' VERT.

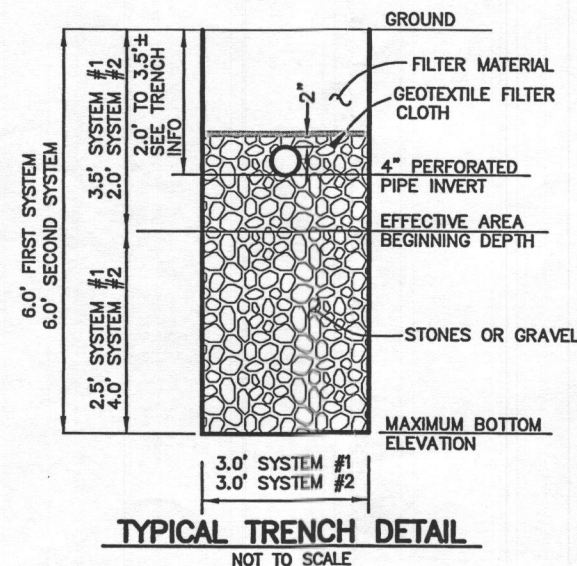


DESIGN DATA & GENERAL NOTES

- [1] Concrete strength f'c=4,000 p.s.i. @ 28 days. Density = 140 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 A638. Min. 1-1/2" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, 4" base, & 6" top thickness.
- [7] Max 2" of cover.
- [8] Depending on use of tank, inlet & outlet baffle may be required by code.

<p>Mayer Bros., Inc. www.mayerbrosprecast.com</p>	<p>8264 Race Road Elkridge, Maryland 21075 Tel. 410.796.1434 Fac. 410.796.1438</p>	<p>2,000 GALLON SEPTIC TANK 2-Compartment</p> <p>Stock Item [Approx. 19,900 lbs]</p>
	<p>Dwg. No. 2000-2C</p>	<p>No Scale</p>

LOT 2



TYPICAL TRENCH DETAIL
NOT TO SCALE

INITIAL SYSTEM - LOT 2			2nd REPLACEMENT SYSTEM		
Number of Bedrooms	6		Number of Bedrooms	6	
Application Rate	1.2	gpd/sf	Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.5	ft	Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	6.0	ft	Bottom Max Depth	7.0	ft
Design Flow	900	gpd	Design Flow	900	gpd
Drainage Field square footage	750	sf	Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.56		Sidewall Reduction Credit	0.42	
Trench width	3	ft	Trench width	3	ft
Effective Area Depth	2.5	ft	Effective Area Depth	4	ft
Trench Spacing	10	ft	Trench Spacing	11	ft
Linear Length of trench Required	139	lf	Linear Length of trench Required	104	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
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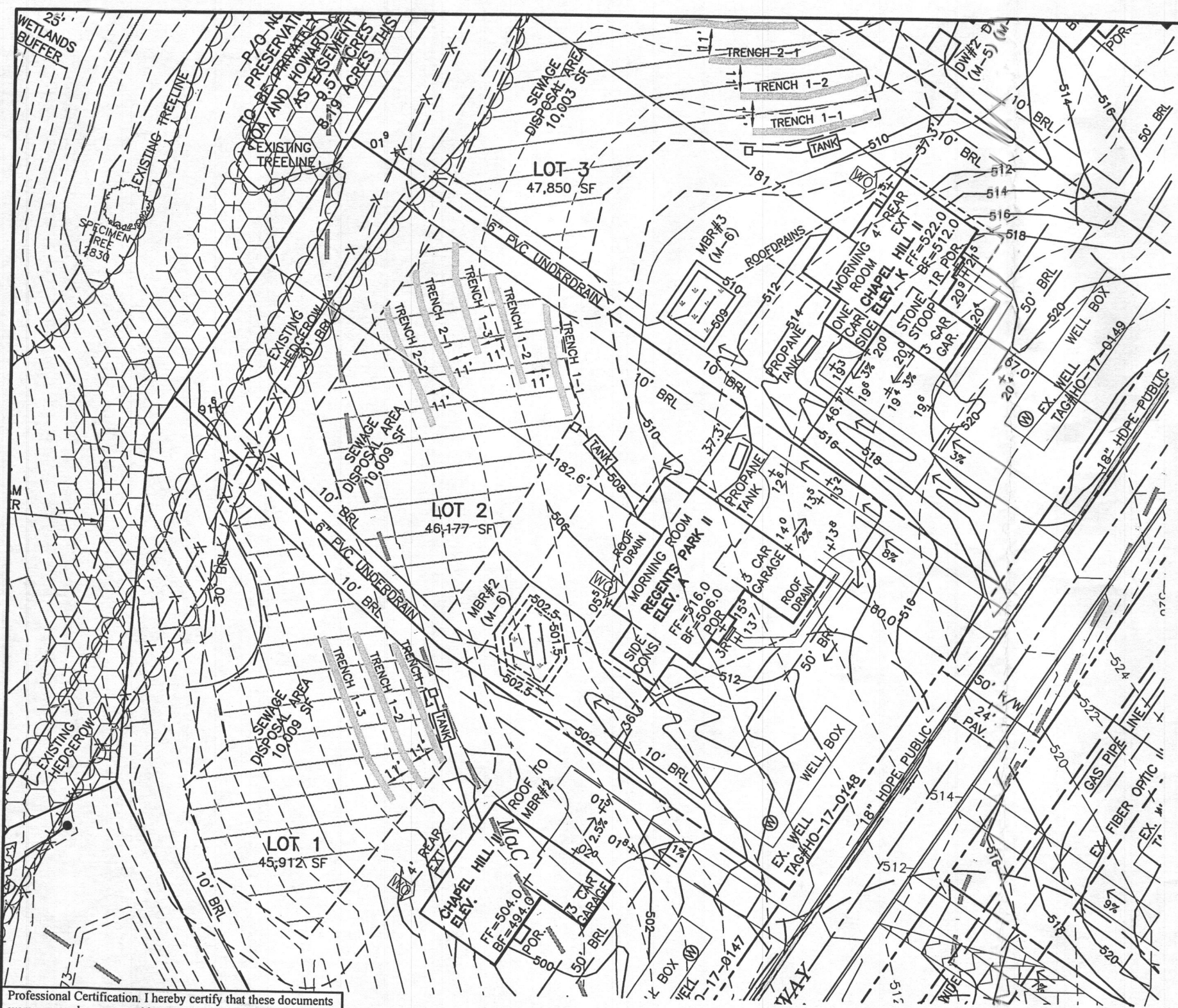
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WWW.BEI-CMLENGINEERING.COM

PROJECT:	BRIGHTON MILL II LOT 2	
LOCATION:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13607 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600583	
TITLE:	ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN	
HOUSE TYPE:	REGENTS PARK II - ELEVATION A	
DATE:	JULY, 2018	PROJECT NO. 2627
SCALE:	AS SHOWN	DRAWING 2 OF 2

BUILDER:
NV HOMES, INC.
9720 PATUXENT WOODS DR.
SUITE 100
COLUMBIA, MD 21046
410-379-5956

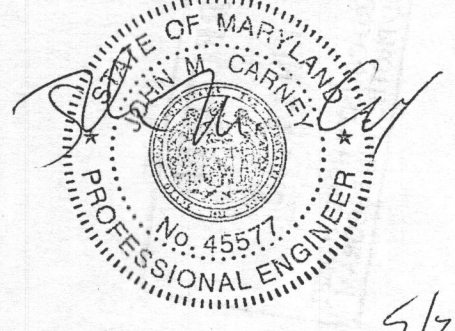
OWNER:
HIGHLAND DEVELOPMENT CORP
P.O. BOX 228
CLARKSVILLE, MARYLAND 21029
410-365-0414



LEGEND	
SOILS CLASSIFICATION	GgC
SOILS DELINEATION	—
PROPOSED CONTOURS	—480— —478—
EXISTING CONTOURS	—480— - - -478-
LIMIT OF WETLANDS	—
EXISTING WOODS LINE	—
PROPOSED WOODS LINE	—
EXISTING STRUCTURE	—
EXISTING WELL	⊙
EXISTING WELL BOX	—
EXISTING SEWAGE DISPOSAL AREA	—
EXISTING PRIVATE PIPE LINE EASEMENT AREA	—

- ONSITE SEWAGE DISPOSAL PLAN NOTES:**
1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR BRIGHTON MILL II, PLAT Nos. 24469-24474. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
 2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION
 3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY F-17-054, ON OR ABOUT MAY, 2017.
 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.
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 9. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY ONE MICRO-BIORETENTION FACILITY. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.
 10. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.
 11. FOR DEVELOPMENT LANDSCAPING SEE ROAD CONSTRUCTION PLANS F-17-054.

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: 06-08-2020.



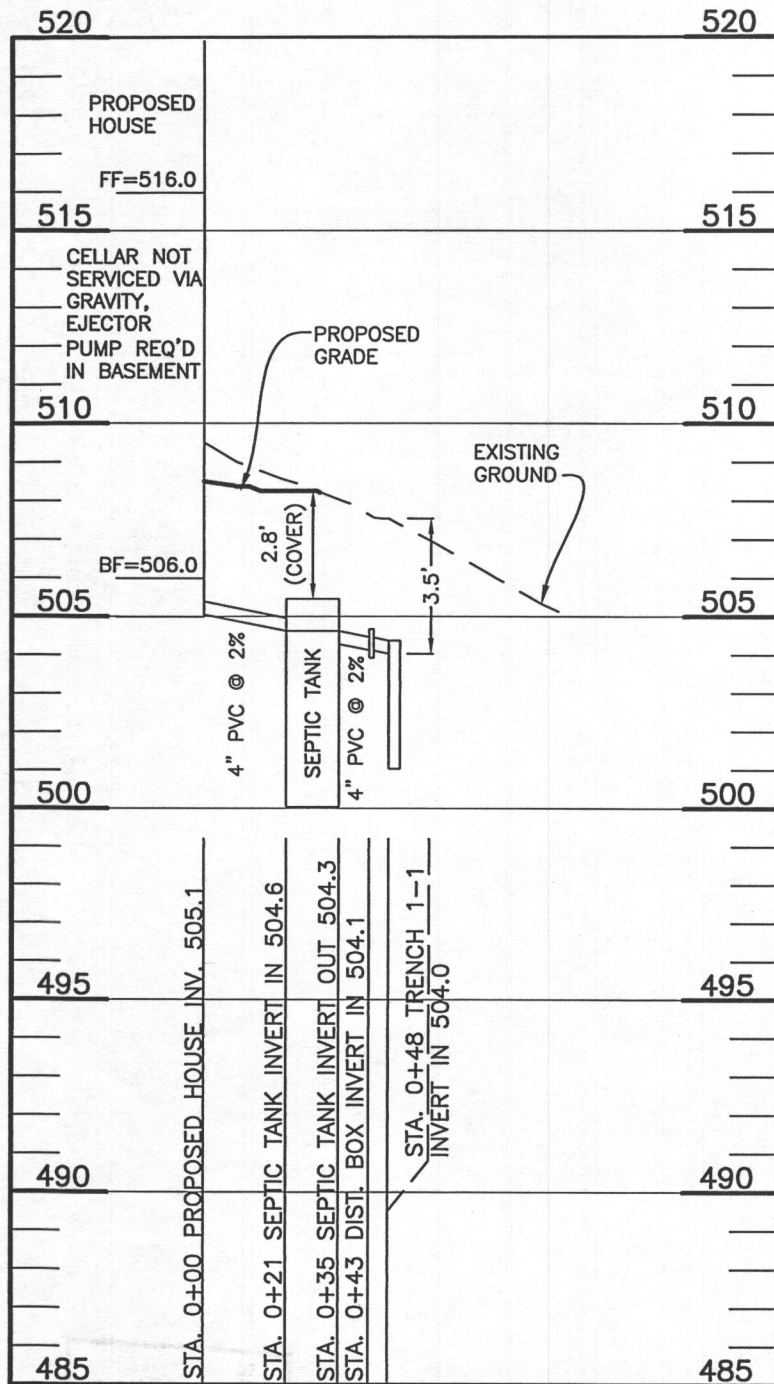
5/24/18



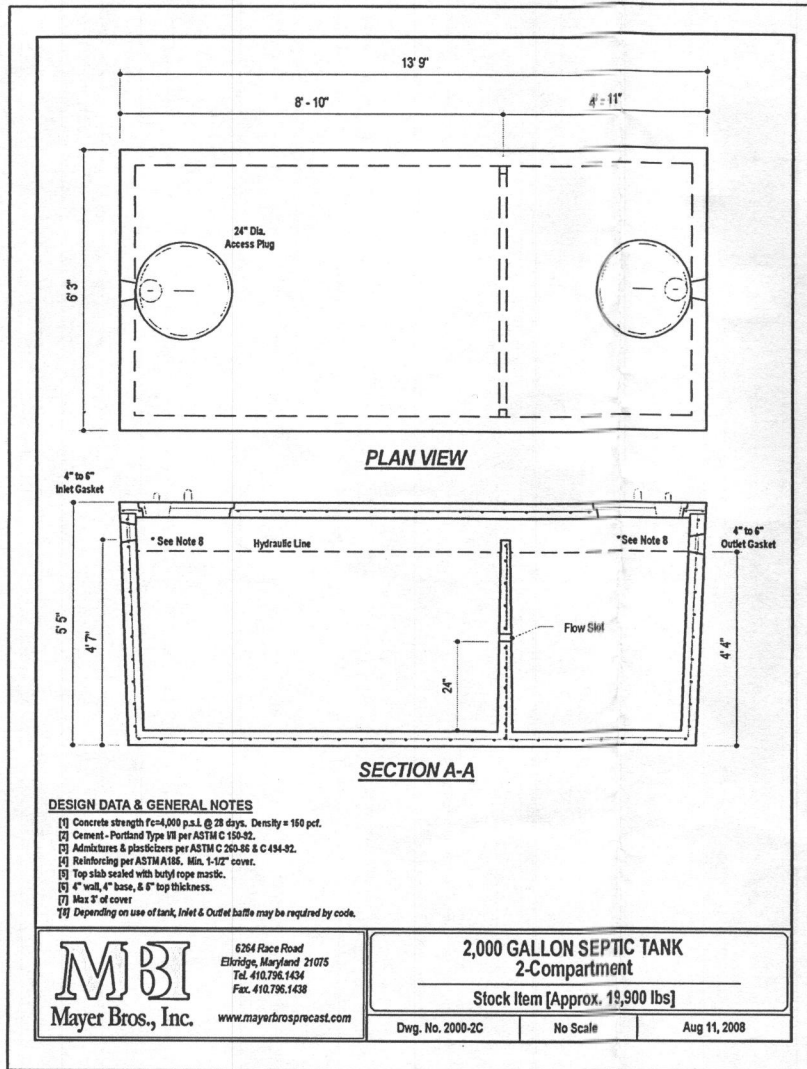
PLAN VIEW
1" = 50'

BUILDER: NV HOMES, INC. 9720 PATUXENT WOODS DRIVE SUITE 100 COLUMBIA, MD 21046 410-379-5956	OWNER: HIGHLAND DEVELOPMENT CORP P.O. BOX 228 CLARKSVILLE, MARYLAND 21029 410-365-0414	BENCHMARK ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 ▲ (F) 410-465-6644 WWW.BEI-CMLENGINEERING.COM
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PROJECT:	BRIGHTON MILL II	
	LOT 2	
LOCATION:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13607 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600583	
TITLE:	ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN	
HOUSE TYPE:	REGENTS PARK II - ELEVATION A	
DATE:	MAY, 2018	PROJECT NO. 2627
SCALE:	AS SHOWN	DRAWING 1 OF 2



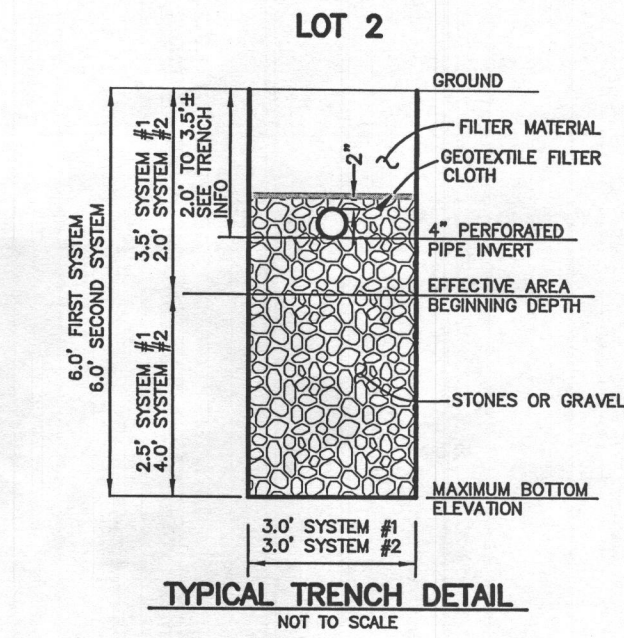
LOT 2 SEPTIC
SCALE: 1"=50' HORIZ., 1"=5' VERT.



DESIGN DATA & GENERAL NOTES
 [1] Concrete strength Fc=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 200-92 & C 454-92.
 [4] Reinforcing per ASTM A198, Min. 1-1/2" cover.
 [5] Top slab finished with buff rope mastic.
 [6] 4" wall, 4" base, & 8" top thickness.
 [7] Max 7" of cover
 [8] Depending on use of tank, inlet & outlet baffle may be required by code.

2,000 GALLON SEPTIC TANK
2-Compartment
 Stock Item [Approx. 19,900 lbs]
 Dwg. No. 2000-2C No Scale Aug 11, 2008

TRENCH DATA - LOT 2			
INITIAL SYSTEM		FIRST REPLACEMENT	
TRENCH 1-1		TRENCH 2-1	
LENGTH	46.3 ft	LENGTH	52.1 ft
GROUND ELEVATION	507.5	GROUND ELEVATION	503.6
INVERT ELEVATION	504.0	INVERT ELEVATION	501.6
MAX BOTTOM ELEVATION	501.5	MAX BOTTOM ELEVATION	497.6
TRENCH 1-2		TRENCH 2-2	
LENGTH	46.3 ft	LENGTH	52.1 ft
GROUND ELEVATION	506.2	GROUND ELEVATION	503.6
INVERT ELEVATION	503.2	INVERT ELEVATION	501.6
MAX BOTTOM ELEVATION	500.2	MAX BOTTOM ELEVATION	497.6
TRENCH 1-3			
LENGTH	46.3 ft		
GROUND ELEVATION	505.0		
INVERT ELEVATION	502.0		
MAX BOTTOM ELEVATION	499.0		



HEALTH DEPARTMENT SPEC SHEET INFORMATION - LOT 2			
System	Application Rate	Effective Depth	Bottom Depth
Initial	1.2	3.5	6.0
1st Replacement	1.2	2.0	6.0
2nd Replacement	1.2	3.0	7.0

SEPTIC INVERT CHART - LOT 2	
INV @ HOUSE	505.1
GROUND @ HOUSE	508.5
INV IN TANK	504.6
INV OUT TANK	504.3
TOP OF TANK	505.5
GROUND OVER TANK	508.3
INV IN DIST BOX	504.1
INV OUT DIST BOX	504.0
GROUND AT DIST BOX	507.6

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 SUITE 100
 COLUMBIA, MD 21046
 410-379-5956

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 P.O. BOX 228
 CLARKSVILLE, MARYLAND 21029
 410-365-0414

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

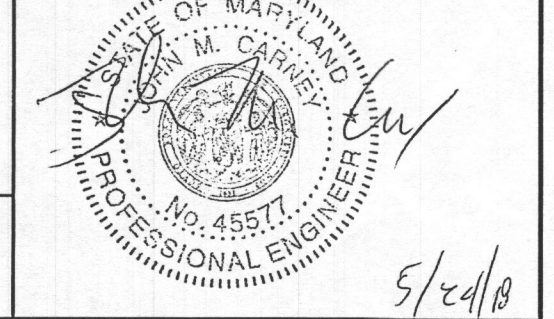
SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER:

INITIAL SYSTEM - LOT 2		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.5	ft
Bottom Max Depth	6.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.56	
Trench width	3	ft
Effective Area Depth	2.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	139	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	2.0	ft
Bottom Max Depth	6.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.42	
Trench width	3	ft
Effective Area Depth	4	ft
Trench Spacing	11	ft
Linear Length of trench Required	104	lf

THIS PLAN IS FOR SEPTIC DESIGN ONLY

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: 06-08-2020.



BENCHMARK ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 (F) 410-465-6644
 WWW.BEI-CVLENGINEERING.COM

PROJECT:	BRIGHTON MILL II LOT 2		
BUILDER:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13607 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600583		
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HOUSE TYPE:	REGENTS PARK II - ELEVATION A		
DATE:	MAY, 2018	PROJECT NO.	2627
SCALE:	AS SHOWN	DRAWING	2 OF 2



LEGEND

- SOILS CLASSIFICATION *GgC*
- SOILS DELINEATION
- PROPOSED CONTOURS
- EXISTING CONTOURS
- LIMIT OF WETLANDS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- EXISTING STRUCTURE
- EXISTING WELL
- EXISTING WELL BOX
- EXISTING SEWAGE DISPOSAL AREA
- EXISTING PRIVATE PIPE LINE EASEMENT AREA
- SWM DRAINAGE AREA

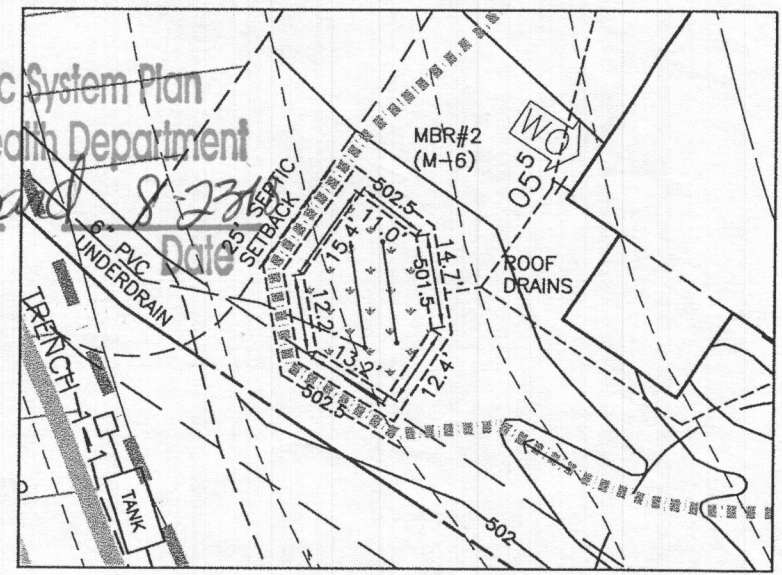
BUILDING PERMIT PLAN NOTES:

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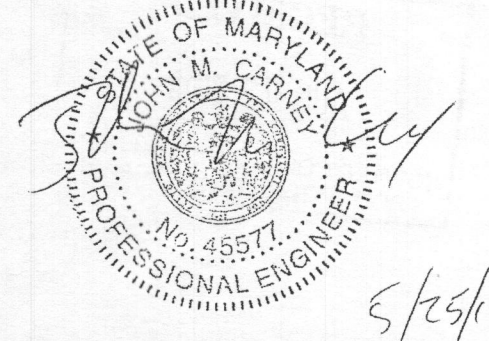
Approved Septic System Plan
 Howard County Health Department
Dana Beard 8/23/18
 Signature Date

PLAN VIEW
 1" = 50'



MBR-2 (M-6) DETAIL
 1" = 30'

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: 06-08-2020.



Practice	#	DA to practice	Imp Area to practice	Af (s.f.)			ESDv			REv		Ownership
				Required	Provided	2% DA?	Required	Provided	Pe Provided	Required	Provided	
(M-6) MicroBioretention	#2	18,409	5,822	368	413	PASS	616	713	1.2	165	Private	
Total Treated		18,409	5,822	368	413		678	713	1.3	147	165	
Site Total		30,863	5,822									

BUILDER:
 NV HOMES, INC.
 9720 PATUXENT WOODS DRIVE
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 COLUMBIA, MD 21046
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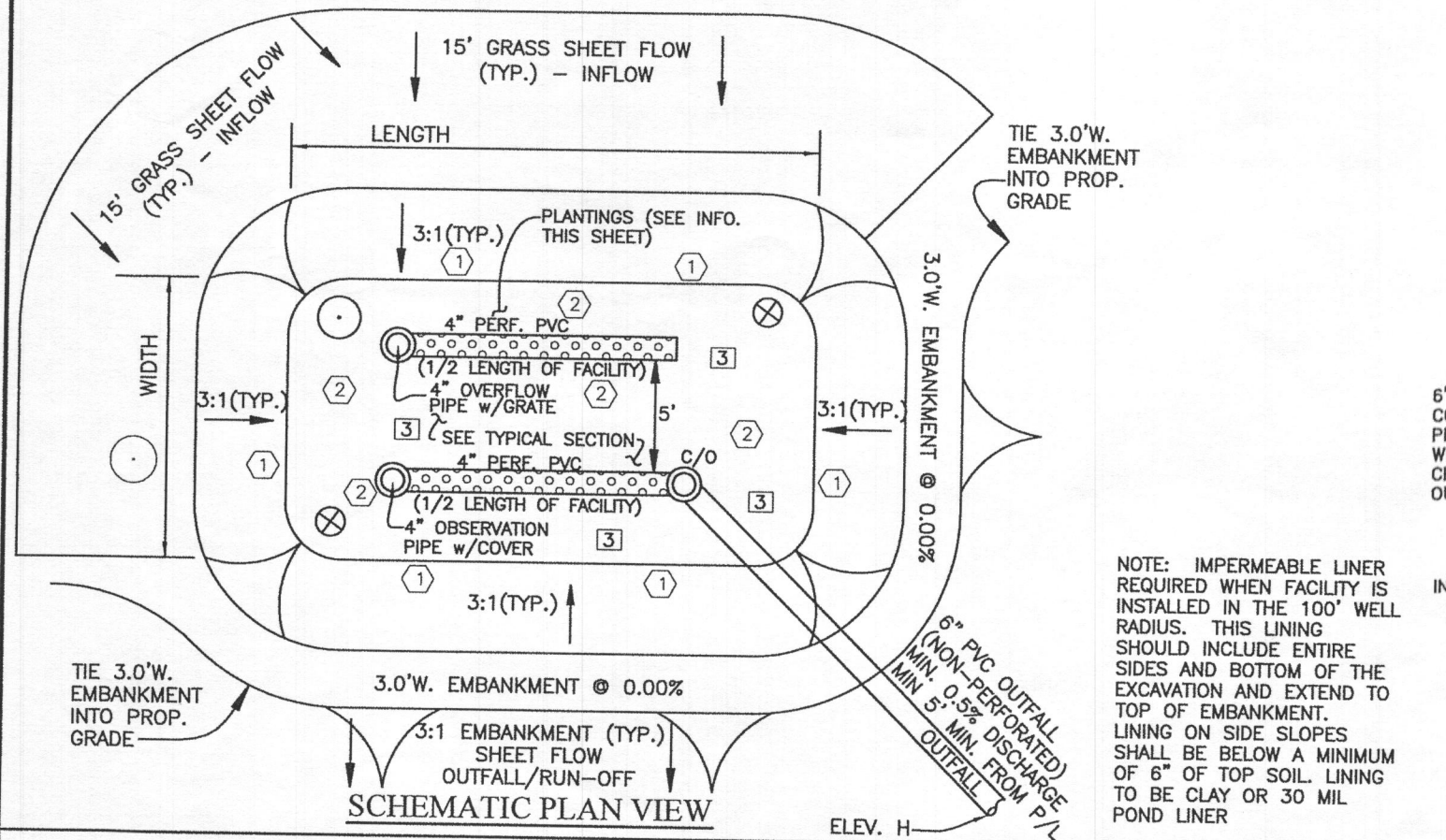
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BENCHMARK
 ENGINEERS LAND SURVEYORS PLANNERS
ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE A SUITE 315
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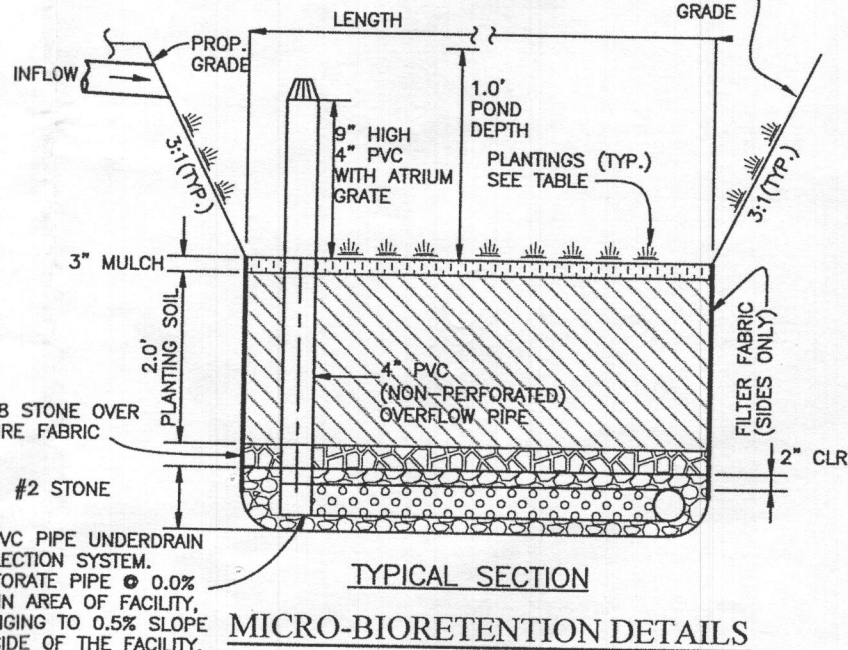
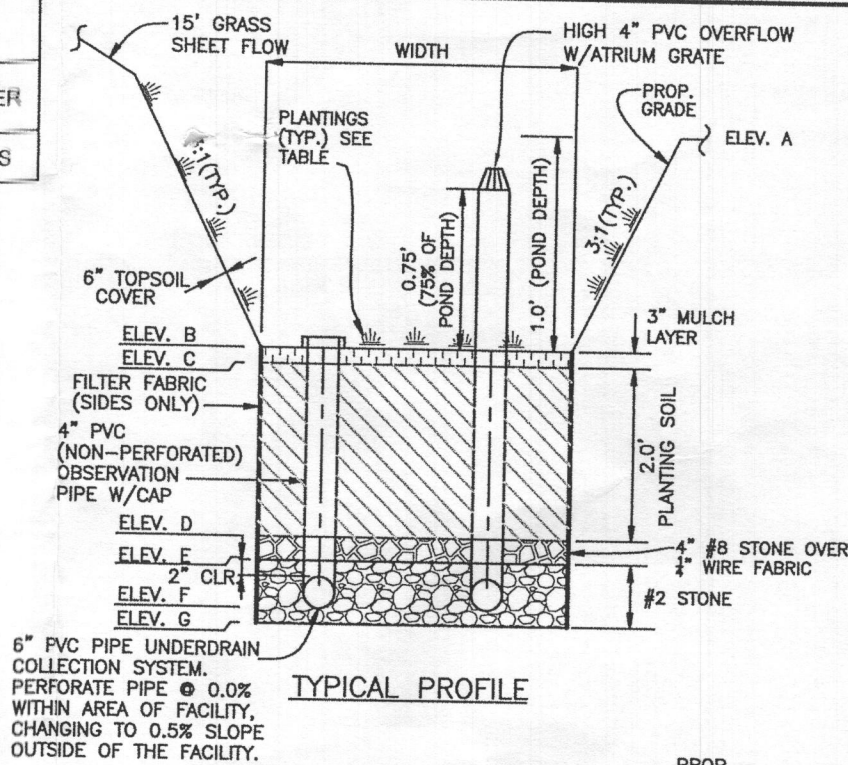
PROJECT:	BRIGHTON MILL II LOT 2	
LOCATION:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13607 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600583	
TITLE:	BUILDING PERMIT PLAN	
HOUSE TYPE:	REGENTS PARK II - ELEVATION A	
DATE:	MAY, 2018	PROJECT NO. 2627
SCALE:	AS SHOWN	DRAWING 1 OF 2

ON-LOT BIORETENTION DIMENSIONS

FACILITY	A	B	C	D	E	F	G	H	LENGTH	WIDTH	FILTER (A _f)	PLANTINGS	LINER
MBR-13	502.50	501.50	501.25	499.25	498.75	498.25	497.25	491.50	23.4	21.4	413	94 92 46	YES



NOTE: IMPERMEABLE LINER REQUIRED WHEN FACILITY IS INSTALLED IN THE 100' WELL RADIUS. THIS LINING SHOULD INCLUDE ENTIRE SIDES AND BOTTOM OF THE EXCAVATION AND EXTEND TO TOP OF EMBANKMENT. LINING ON SIDE SLOPES SHALL BE BELOW A MINIMUM OF 6" OF TOP SOIL. LINING TO BE CLAY OR 30 MIL POND LINER



MATERIALS & SPECIFICATIONS FOR MICRO-BIORETENTION

MATERIAL	SPECIFICATION	SIZE	NOTES:
PLANTINGS	SEE APPENDIX A; TABLE A.4	N/A	PLANTINGS ARE SITE SPECIFIC
PLANTING SOIL (2.0' TO 4.0' DEEP)	LOAMY SAND 60-65% COMPOST 35-40% OR SANDY LOAM 30% COARSE SAND 30% & COMPOST 40%	N/A	USDA SOIL TYPES: LOAMY SAND OR SANDY LOAM; CLAY CONTENT <5%
ORGANIC CONTENT	MIN 10% BY DRY WEIGHT ASTM D 2974		
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM, NO PINE OR WOOD CHIPS
GEOTEXTILE (CLASS "C")		N/A	PE TYPE 1 NONWOVEN
GEOTEXTILE (1/4" WIRE MESH)		1/4" WIRE MESH	1/4" WIRE MESH
UNDERDRAIN GRAVEL	AASHTO M-43	NO. 57 OR NO. 6 0.375" TO 0.750"	
UNDERDRAIN PIPING	F758, TYPE PS28 OR AASHTO M-278	4" TO 6" RIGID SCH.40 PVC, SDR35 OR HDPE	3/8" PERF. @ 6" O/C, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES, NOT NECESSARY UNDERNEATH PIPES. PIPE SHALL BE WRAPPED WITH 1/4-INCH GALVANIZED HARDWARE CLOTH
IMPERVIOUS LINER	ASTM-D-4833 (THICKNESS) ASTM-D-412 (TENSILE STRENGTH 1,100 LB., ELONGATION 200%) ASTM-D-624 (TEAR RESISTANCE - 150 LB./IN) ASTM-D-471 (WATER ADSORPTION: +8 TO -2% MASS)	30 MIL THICK	LINER TO BE ULTRAVIOLET RESISTANT. A GEOTEXTILE FABRIC SHOULD BE USED TO PROTECT THE LINER FROM PUNCTURE.
GEOTEXTILE (BELOW IMPERV. LINER)	ASTM-D-4833 (PUNCTURE STRENGTH 125LB) ASTM-D-4632 (TENSILE STRENGTH 300 LB.)		

MICROBIORETENTION PLANTING SCHEDULE

(PLANTING SPECIES AND DENSITY CAN BE CHANGED OR SUBSTITUTED BY A LANDSCAPE ARCHITECT OR QUALIFIED DESIGNER)

- ① IRIS FULVA (COPPER IRIS)
- ② LOBELIA CARDINALIS (CARDINAL FLOWER)
- ③ RUDBECKIA SUBTOMENTOSA (SWEET CONEFLOWER)
- ⊗ CALLUNA VULGARIS (HEATHER) (2 PER FACILITY)
- ACER GINNALA (ARMUR MAPLE) (1 PER FACILITY)

MICROBIORETENTION PLANTING DATA

- PLANTINGS WITHIN THE PONDING AREA OF THE FACILITY ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE
- PLANTINGS ALONG THE PERIMETER (BERM) AREA OF THE FACILITY ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE
- AVOID PLANTINGS WITH EXCESSIVE ROOT MASS IN POND AREA OF THE RAIN GARDEN NEAR O.B. PIPE AND UNDERDRAIN.

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

FOR THE OPERATION AND MAINTENANCE OBLIGATIONS AND SCHEDULE, REFER TO THE DECLARATION OF COVENANTS RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY MARYLAND FOR THIS LOT.

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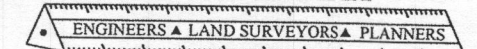
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BENCHMARK



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WWW.BEI-CIVILENGINEERING.COM

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LOCATION:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13607 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600583	
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