

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 567716

APPROVAL DATE: 1/29/19 SEC **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 13610 Curtis Vista Way

SUBDIVISION: Brighton Mill II LOT: 10 TAX ID: 05-600591

CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, 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

PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

| | | |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>188</u> | INLET DEPTH: <u>3</u> |
| | TRENCH WIDTH: <u>3</u> | MAXIMUM BOTTOM DEPTH: <u>6</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: | Install 4 - 47' trenches. | |

ISSUED BY: Dana Bernard ISSUE DATE: 1/8/19 EXPIRATION DATE: 1/8/20

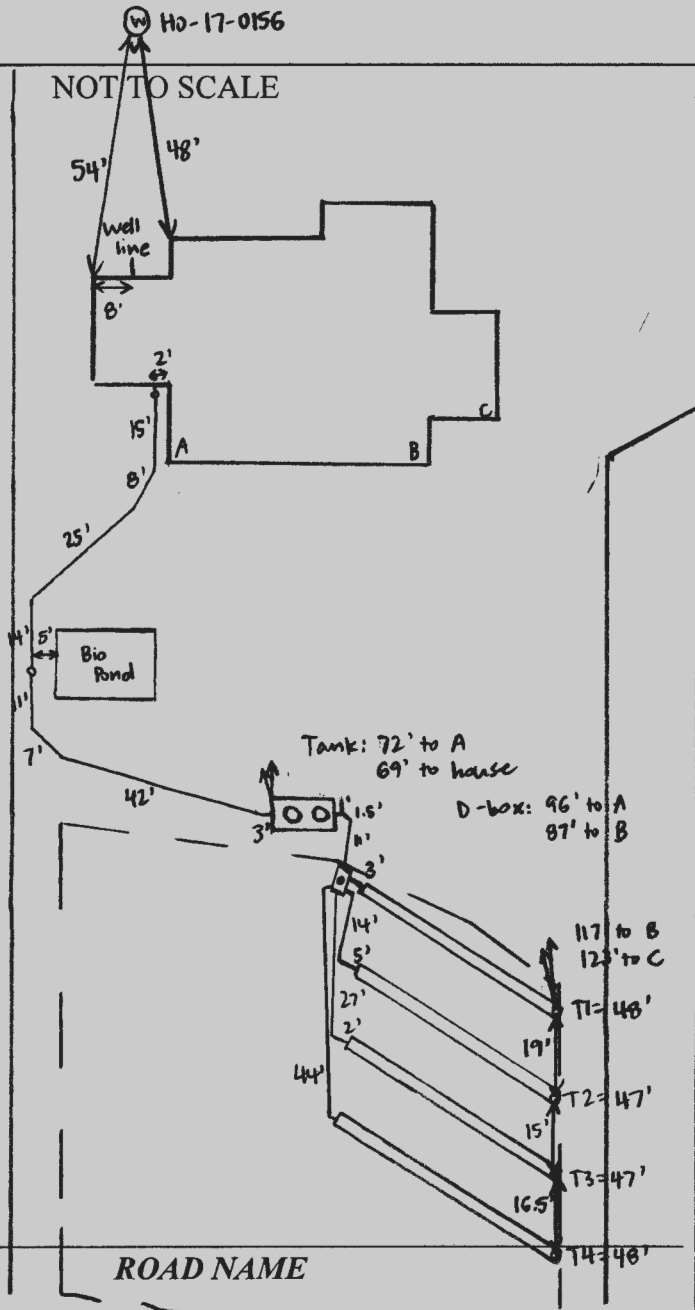
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- 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.**

HO-17-0156

NOT TO SCALE

1" = 40'



| TRENCH/DRAINFIELD DATA | | |
|-------------------------|-------|-----------------|
| WIDTH | INLET | BOTTOM |
| 3' | 3' | 6' |
| NUMBER OF TRENCHES | | 4 |
| TOTAL LENGTH | | 190' |
| ABSORPTION AREA | | 570' + SIDEWALL |
| DISTRIBUTION BOX LEVEL | | YES |
| DISTRIBUTION BOX BAFFLE | | YES |
| DISTRIBUTION BOX PORT | | YES |

| SEPTIC TANK DATA | |
|---------------------|--------------|
| SEPTIC TANK 1 LEVEL | YES |
| MANUFACTURER | BABYLON |
| CAPACITY | 2000 GAL |
| SEAM LOC | TOP |
| TANK LID DEPTH | 1-2' |
| BAFFLES | |
| BAFFLE FILTER | NO |
| MANHOLE LOC | FRONT + REAR |
| 6" PORT LOC | NONE |
| WATERTIGHT TEST | NO |
| SLOTTED | YES |
| DATE ON LID | 12-3-18 |

| SEPTIC TANK 2 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:

1/14/19 Met S. Carroll on site for layout. Set corner + tank stakes present. Bio pond 5' offset also staked. Run sewer line as close to bio pond stakes as possible w/o going on lot 11 with backhoe. Shot contour + laid out 4 x 47' trenches. (SC)

INSTALLATION:

1/15/19 Tank set, landscape company installing bio pond. (SC) 1/17/19 T1 + T2 complete + left open at ends for inspection. 3' wide, 2.5' to stone. S. Carroll digging T3 - 3' wide + 6' bottom. Using laser to check depths. (SC) 1/18/19 T4 complete + left open for inspection. 3' wide, 2.5' to stone. (SC) 1/22/19 Sewer line run from house to tank, need house connection. D-box set + connected to tank and trenches. D-box outlet pipes are leaking - S. Carroll will patch with hydraulic cement. [Corrective action.] (SC) 1/22/19 D-box outlet pipes sealed, leveled speed levelers in D-box. [Corrective action completed.] Need house connection. (SC) 1/29/19 House connection made. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 1/29/19

NON-BUILDABLE PRESERVATION PARCEL 'D'
TO BE PRIVATELY OWNED WITH THE HOMEOWNERS
ASSOCIATION AND HOWARD COUNTY, MARYLAND
AS EASEMENT HOLDERS

EXISTING PRIVATE 50' WIDE
PIPE LINE EASEMENT
DEED 266/248
ATLANTIC SEABOARD COMPANY

EXISTING PRIVATE 30'
WIDE FIBER OPTIC
CABLE RIGHT-OF-WAY
DEED 4905/465

N33°33'22"E 195.78'

EX. WELL
TAG#HO-17-0156

30' BRL FROM TRANSMISSION R-O-W

50' BRL

50' BRL

SEE DETAIL

16.9'

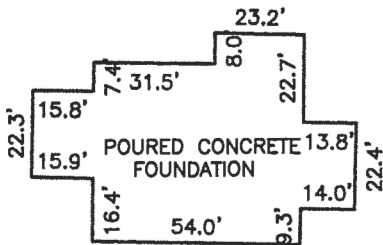
78.01'

76.56'

S05°46'28"W
10' PUBLIC STREET
TREE MAINTENANCE
& UTILITY EASEMENT

CURTIS VISTA WAY
50' PUBLIC RIGHT-OF-WAY

R=55.00'
L=56.12'
L=23.16'



FOUNDATION DETAIL
SCALE: 1" = 50'

LOT 11

LOT 10

LOT 9

N56°26'38"W 330.13'

10' BRL

10' BRL

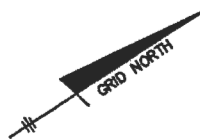
238.75'

S56°26'38"E

50' BRL

S41°14'26"W 125.02'

BROCCOLINO WAY
PUBLIC ACCESS STREET
40' R/W



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 1-7-2021 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 12/10/2018.

TOP OF FOUNDATION WALL = 538.1'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

*1/8" wall check
okay. u.s.*

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



WALL CHECK

FEMA FIRM No. 24027C1300
ZONE: X
DATED: 11/6/2013

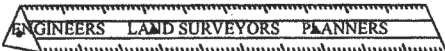
BRIGHTON MILL II
PLAT No. 24471
LOT No. 10

13610 CURTIS VISTA WAY

5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FIELD OBS. BY AS
COMP. BY EWF
DRAWN BY EWF SCALE: 1" = 50' DATE: 12/10/2018

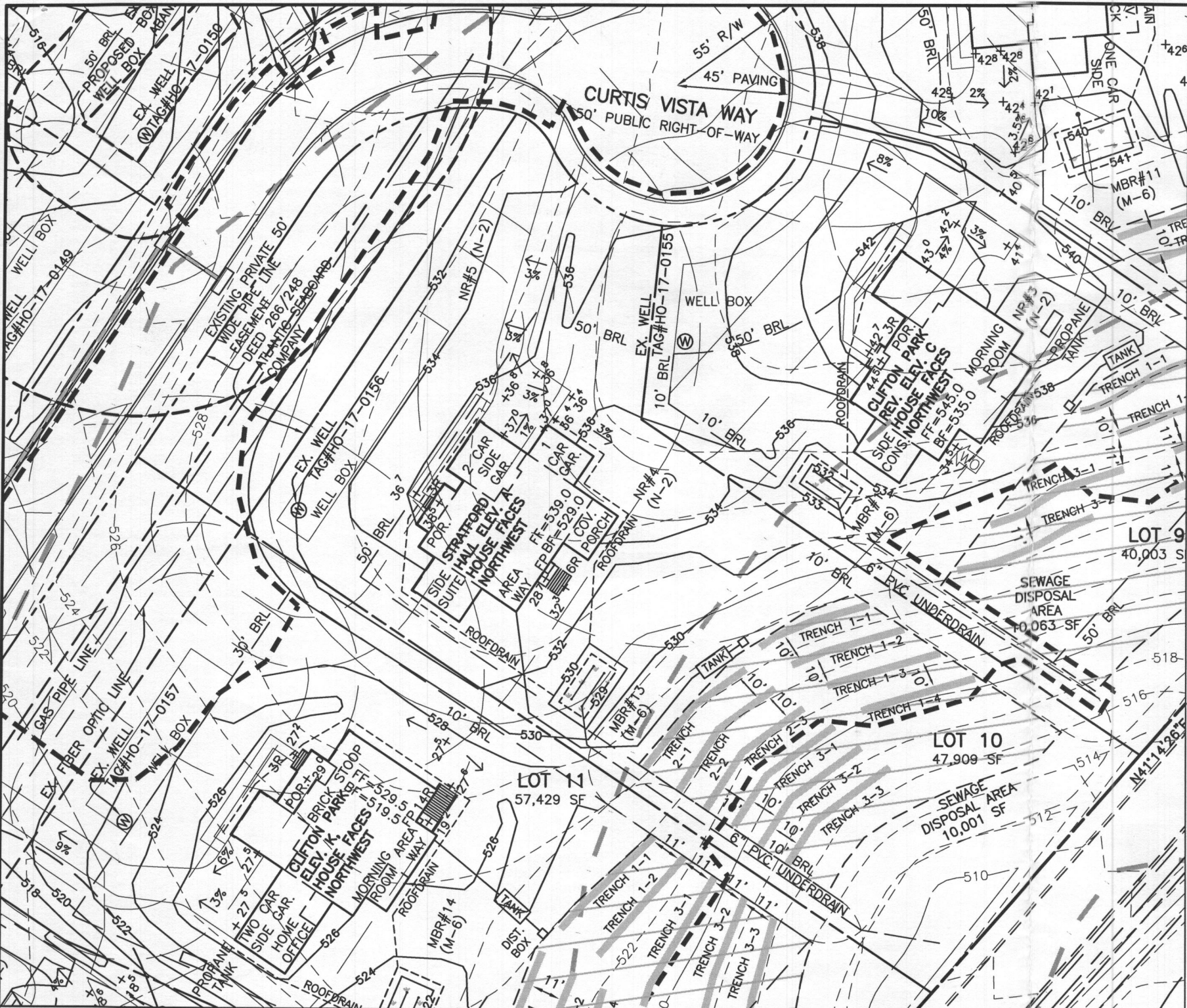
BENCHMARK



ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-485-6105 (F) 410-485-8644

WWW.BEI-CMLENGINEERING.COM



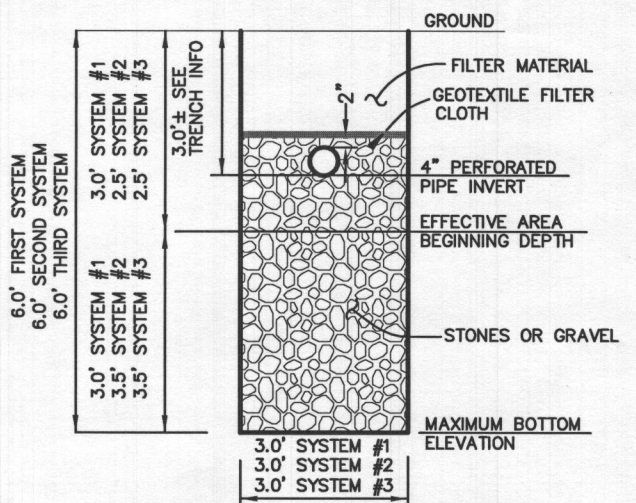
LEGEND

- 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:

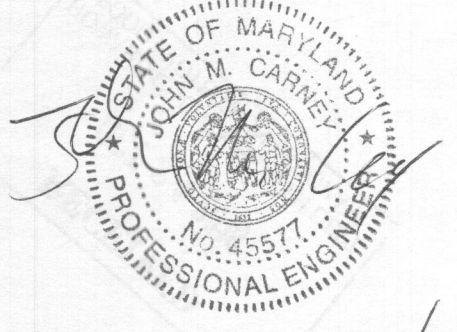
1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR BRIGHTON MILL II, PLAT Nos. 24469-24474. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY F-17-054, ON OR ABOUT MAY, 2017. 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.
4. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
5. THE EXISTING WELL SHOWN ON THIS PLAN, HO-17-0156, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
6. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY TWO NON-ROOFTOP DISCONNECTIONS AND ONE MICRO-BIORETENTION FACILITY. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.
9. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.

LOT 10



TYPICAL TRENCH DETAIL
NOT TO SCALE

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.

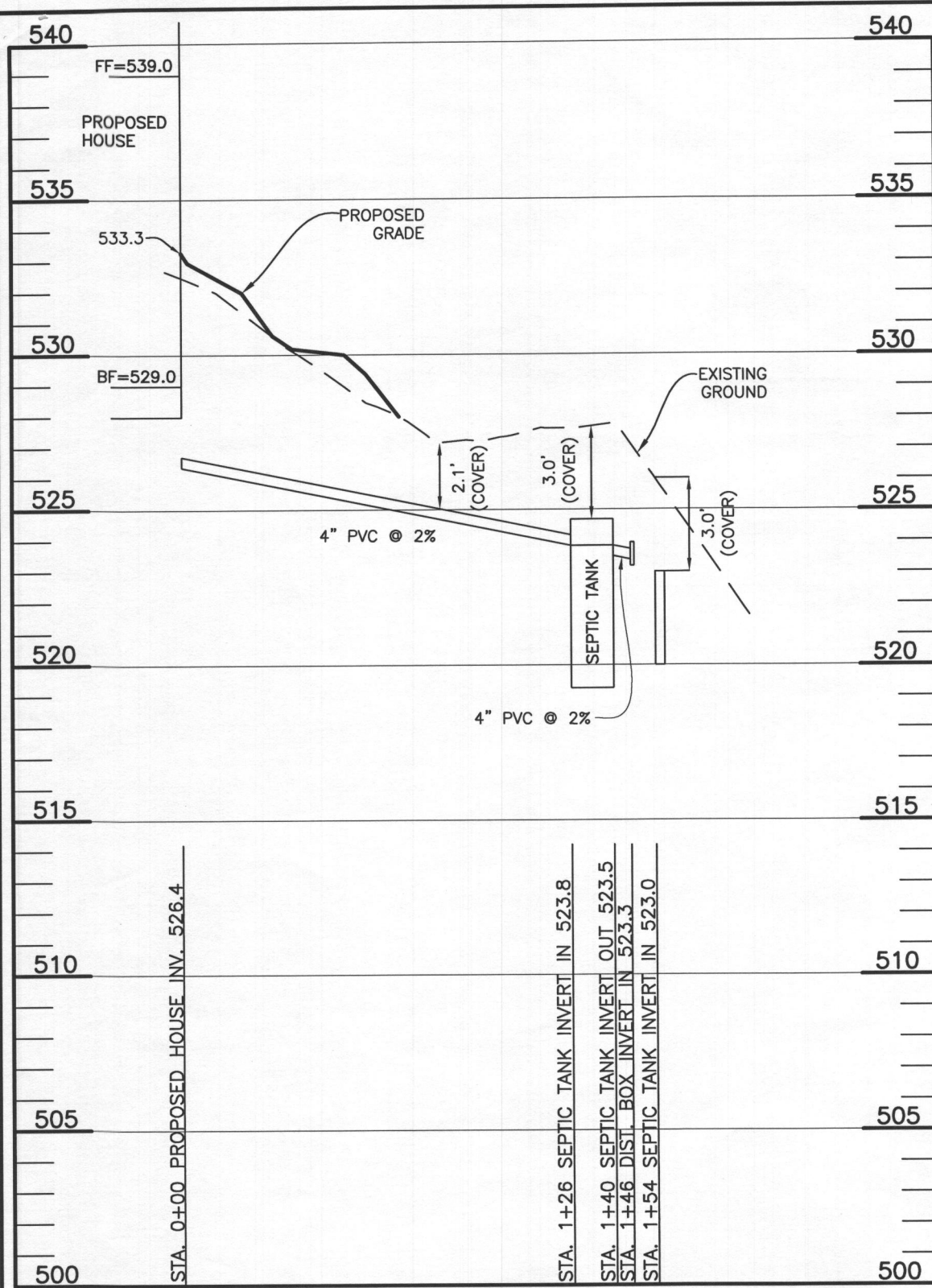


PLAN VIEW
1" = 50'

| | |
|---|---|
| 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 |
|---|---|

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

| | |
|--|-------------------------|
| PROJECT: BRIGHTON MILL II LOT 10 | |
| LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13610 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #600591 | |
| TITLE: ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN | |
| HOUSE TYPE: STRATFORD HALL - ELEVATION A | |
| DATE: AUGUST, 2018 | PROJECT NO. 2627 |
| SCALE: AS SHOWN | DRAWING 1 OF 2 |



LOT 10 SEPTIC
SCALE: 1"=50' HORIZ., 1"=5' VERT.

| System | Application Rate | Effective Depth | Bottom Depth |
|-----------------|------------------|-----------------|--------------|
| Initial | 0.8 | 3.0 | 6.0 |
| 1st Replacement | 0.8 | 2.5 | 6.0 |
| 2nd Replacement | 0.8 | 2.5 | 6.0 |

| SEPTIC INVERT CHART - LOT 10 | |
|------------------------------|-------|
| INV @ HOUSE | 526.4 |
| GROUND @ HOUSE | 533.3 |
| INV IN TANK | 523.8 |
| INV OUT TANK | 523.5 |
| TOP OF TANK | 524.7 |
| GROUND OVER TANK | 527.7 |
| INV IN DIST BOX | 523.3 |
| INV OUT DIST BOX | 523.2 |
| GROUND AT DIST BOX | 526.3 |

INITIAL SYSTEM - LOT 10

| | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 6 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 3.0 | ft |
| Bottom Max Depth | 6.0 | ft |
| Design Flow | 900 | gpd |
| Drainage Field square footage | 1125 | sf |
| Sidewall Reduction Credit | 0.50 | |
| Trench width | 3 | ft |
| Effective Area Depth | 3 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 188 | lf |

1st REPLACEMENT SYSTEM

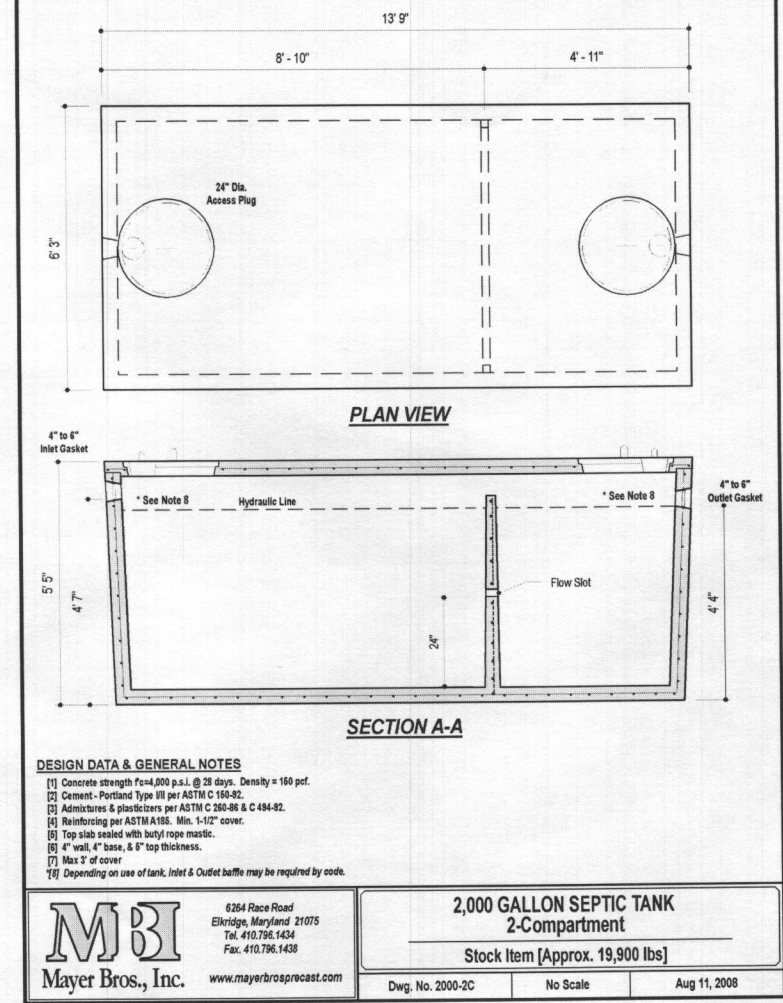
| | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 6 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 2.5 | ft |
| Bottom Max Depth | 6.0 | ft |
| Design Flow | 900 | gpd |
| Drainage Field square footage | 1125 | sf |
| Sidewall Reduction Credit | 0.45 | |
| Trench width | 3 | ft |
| Effective Area Depth | 3.5 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 170 | lf |

2nd REPLACEMENT SYSTEM

| | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 6 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 2.5 | ft |
| Bottom Max Depth | 6.0 | ft |
| Design Flow | 900 | gpd |
| Drainage Field square footage | 1125 | sf |
| Sidewall Reduction Credit | 0.45 | |
| Trench width | 3 | ft |
| Effective Area Depth | 3.5 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 170 | lf |

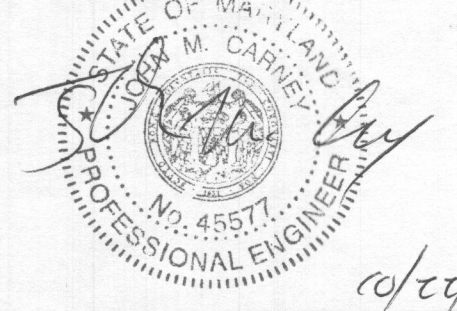
TRENCH DATA - LOT 10

| INITIAL SYSTEM | | FIRST REPLACEMENT | | SECOND REPLACEMENT | |
|-------------------|----------------------------|-------------------|----------------------------|--------------------|----------------------------|
| TRENCH 1-1 | LENGTH 46.9 ft | TRENCH 2-1 | LENGTH 56.9 ft | TRENCH 3-1 | LENGTH 56.9 ft |
| | GROUND ELEVATION 526.0 | | GROUND ELEVATION 526.3 | | GROUND ELEVATION 520.6 |
| | INVERT ELEVATION 523.0 | | INVERT ELEVATION 523.8 | | INVERT ELEVATION 518.1 |
| | MAX BOTTOM ELEVATION 520.0 | | MAX BOTTOM ELEVATION 520.3 | | MAX BOTTOM ELEVATION 514.6 |
| TRENCH 1-2 | LENGTH 46.9 ft | TRENCH 2-2 | LENGTH 56.9 ft | TRENCH 3-2 | LENGTH 56.9 ft |
| | GROUND ELEVATION 525.2 | | GROUND ELEVATION 524.4 | | GROUND ELEVATION 518.8 |
| | INVERT ELEVATION 522.2 | | INVERT ELEVATION 521.9 | | INVERT ELEVATION 516.3 |
| | MAX BOTTOM ELEVATION 519.2 | | MAX BOTTOM ELEVATION 518.4 | | MAX BOTTOM ELEVATION 512.8 |
| TRENCH 1-3 | LENGTH 46.9 ft | TRENCH 2-3 | LENGTH 56.9 ft | TRENCH 3-2 | LENGTH 56.9 ft |
| | GROUND ELEVATION 523.2 | | GROUND ELEVATION 522.4 | | GROUND ELEVATION 517.2 |
| | INVERT ELEVATION 520.2 | | INVERT ELEVATION 519.9 | | INVERT ELEVATION 514.7 |
| | MAX BOTTOM ELEVATION 517.2 | | MAX BOTTOM ELEVATION 516.4 | | MAX BOTTOM ELEVATION 517.2 |
| TRENCH 1-4 | LENGTH 46.9 ft | | | | |
| | GROUND ELEVATION 520.3 | | | | |
| | INVERT ELEVATION 517.3 | | | | |
| | MAX BOTTOM ELEVATION 514.3 | | | | |



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

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

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:

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

PROJECT: **BRIGHTON MILL II LOT 10**

LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO
13610 CURTIS VISTA WAY
CLARKSVILLE, MD 21029
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #600591

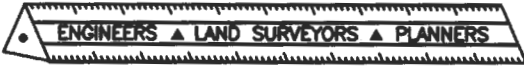
TITLE: **ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**

HOUSE TYPE: **STRATFORD HALL - ELEVATION A**

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

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

BENCHMARK



ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043
 410-465-6105 410-465-6644 (Fax)

LETTER OF TRANSMITTAL

| | | | |
|-----------|------------------------|-------------|------|
| DATE | 10/23/18 | PROJECT No. | 2627 |
| ATTENTION | Dana Bernard | | |
| RE: | Brighton Mill Lot 1 | | |
| | 13610 Curtis Vista Way | | |
| | Revised OSDS Plan | | |

TO: Health

WE ARE SENDING YOU Attached Under separate cover via _____ the following items

- | | | | |
|---|--|---------------------------------------|--------------------------------------|
| <input type="checkbox"/> Photocopies | <input checked="" type="checkbox"/> Prints | <input type="checkbox"/> Originals | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Specifications | <input type="checkbox"/> Invoices | <input type="checkbox"/> Change Order | <input type="checkbox"/> Other _____ |

| COPIES of | No. of SHEETS | DESCRIPTION |
|-----------|---------------|-------------------|
| 3 | 2 | Revised OSDS Plan |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

THESE ARE TRANSMITTED as checked below

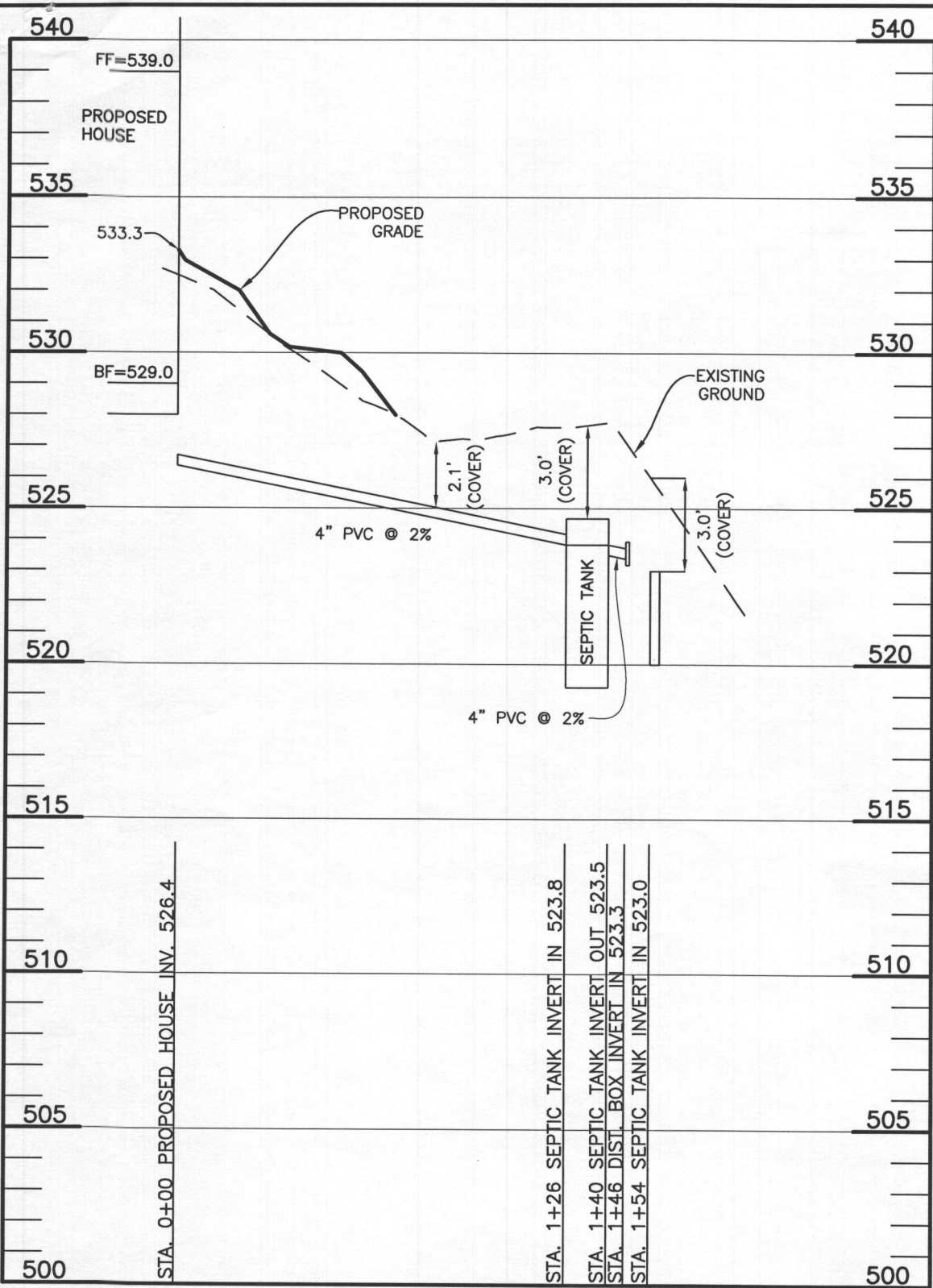
- | | | |
|--------------------------------------|---------------------------------------|--|
| <input type="checkbox"/> For Comment | <input type="checkbox"/> For your use | <input checked="" type="checkbox"/> For Approval |
| <input type="checkbox"/> For Review | <input type="checkbox"/> As requested | <input type="checkbox"/> Other _____ |

REMARKS: Septic Tank Detail added to
Plan per your 10/22/18 email.

COPY TO: _____
 RECEIVED BY: [Signature]

SIGNED: [Signature]

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

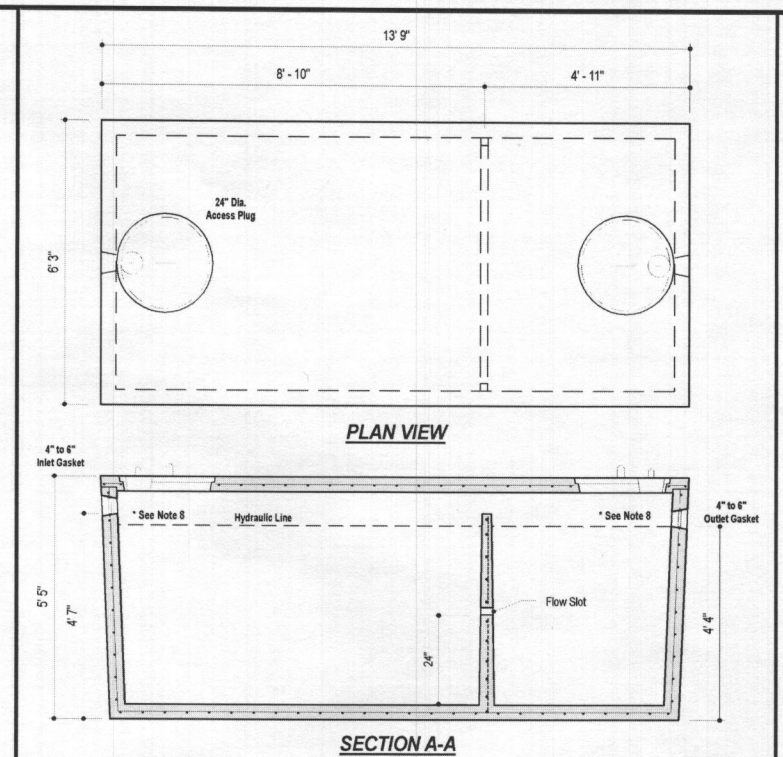


| INITIAL SYSTEM - LOT 10 | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 6 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 3.0 | ft |
| Bottom Max Depth | 6.0 | ft |
| Design Flow | 900 | gpd |
| Drainage Field square footage | 1125 | sf |
| Sidewall Reduction Credit | 0.50 | |
| Trench width | 3 | ft |
| Effective Area Depth | 3 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 188 | lf |

| 1st REPLACEMENT SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 6 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 2.5 | ft |
| Bottom Max Depth | 6.0 | ft |
| Design Flow | 900 | gpd |
| Drainage Field square footage | 1125 | sf |
| Sidewall Reduction Credit | 0.45 | |
| Trench width | 3 | ft |
| Effective Area Depth | 3.5 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 170 | lf |

| 2nd REPLACEMENT SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 6 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 2.5 | ft |
| Bottom Max Depth | 6.0 | ft |
| Design Flow | 900 | gpd |
| Drainage Field square footage | 1125 | sf |
| Sidewall Reduction Credit | 0.45 | |
| Trench width | 3 | ft |
| Effective Area Depth | 3.5 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 170 | lf |

| TRENCH DATA - LOT 10 | | | | | |
|----------------------|----------------------------|-------------------|----------------------------|--------------------|----------------------------|
| INITIAL SYSTEM | | FIRST REPLACEMENT | | SECOND REPLACEMENT | |
| TRENCH 1-1 | LENGTH 46.9 ft | TRENCH 2-1 | LENGTH 56.9 ft | TRENCH 3-1 | LENGTH 56.9 ft |
| | GROUND ELEVATION 526.0 | | GROUND ELEVATION 526.3 | | GROUND ELEVATION 520.6 |
| | INVERT ELEVATION 523.0 | | INVERT ELEVATION 523.8 | | INVERT ELEVATION 518.1 |
| | MAX BOTTOM ELEVATION 520.0 | | MAX BOTTOM ELEVATION 520.3 | | MAX BOTTOM ELEVATION 514.6 |
| TRENCH 1-2 | LENGTH 46.9 ft | TRENCH 2-2 | LENGTH 56.9 ft | TRENCH 3-2 | LENGTH 56.9 ft |
| | GROUND ELEVATION 525.2 | | GROUND ELEVATION 524.4 | | GROUND ELEVATION 518.8 |
| | INVERT ELEVATION 522.2 | | INVERT ELEVATION 521.9 | | INVERT ELEVATION 516.3 |
| | MAX BOTTOM ELEVATION 519.2 | | MAX BOTTOM ELEVATION 518.4 | | MAX BOTTOM ELEVATION 512.8 |
| TRENCH 1-3 | LENGTH 46.9 ft | TRENCH 2-3 | LENGTH 56.9 ft | TRENCH 3-2 | LENGTH 56.9 ft |
| | GROUND ELEVATION 523.2 | | GROUND ELEVATION 522.4 | | GROUND ELEVATION 517.2 |
| | INVERT ELEVATION 520.2 | | INVERT ELEVATION 519.9 | | INVERT ELEVATION 514.7 |
| | MAX BOTTOM ELEVATION 517.2 | | MAX BOTTOM ELEVATION 516.4 | | MAX BOTTOM ELEVATION 517.2 |
| TRENCH 1-4 | LENGTH 46.9 ft | | | | |
| | GROUND ELEVATION 520.3 | | | | |
| | INVERT ELEVATION 517.3 | | | | |
| | MAX BOTTOM ELEVATION 514.3 | | | | |



DESIGN DATA & GENERAL NOTES

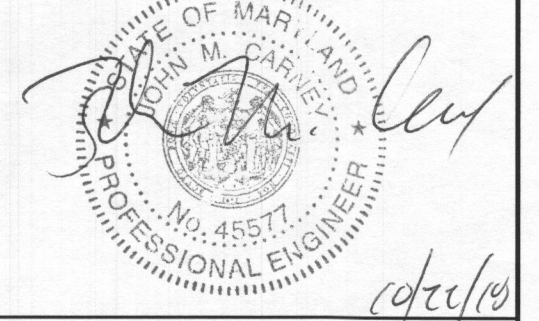
[1] Concrete strength Fc=4,000 p.s.i. @ 28 days. Density = 150 pcf.
 [2] Cement - Portland Type III per ASTM C 150-92.
 [3] Admixtures & plasticizers per ASTM C 260-95 & C 494-92.
 [4] Reinforcing per ASTM A 108. Min. 1/2" cover.
 [5] Top slab sealed with butyl rope mastic.
 [6] 4" wall, 4" base, & 6" top thickness.
 [7] Max 3" of cover.
 [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

MBI
Mayer Bros., Inc.
6364 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

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.



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:

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

LOT 10 SEPTIC
SCALE: 1"=50' HORIZ., 1"=5' VERT.

| SEPTIC INVERT CHART - LOT 10 | |
|------------------------------|-------|
| INV @ HOUSE | 526.4 |
| GROUND @ HOUSE | 533.3 |
| INV IN TANK | 523.8 |
| INV OUT TANK | 523.5 |
| TOP OF TANK | 524.7 |
| GROUND OVER TANK | 527.7 |
| INV IN DIST BOX | 523.3 |
| INV OUT DIST BOX | 523.2 |
| GROUND AT DIST BOX | 526.3 |

| HEALTH DEPARTMENT SPEC SHEET INFORMATION - LOT 10 | | | |
|---|------------------|-----------------|--------------|
| System | Application Rate | Effective Depth | Bottom Depth |
| Initial | 0.8 | 3.0 | 6.0 |
| 1st Replacement | 0.8 | 2.5 | 6.0 |
| 2nd Replacement | 0.8 | 2.5 | 6.0 |

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

PROJECT: BRIGHTON MILL II LOT 10

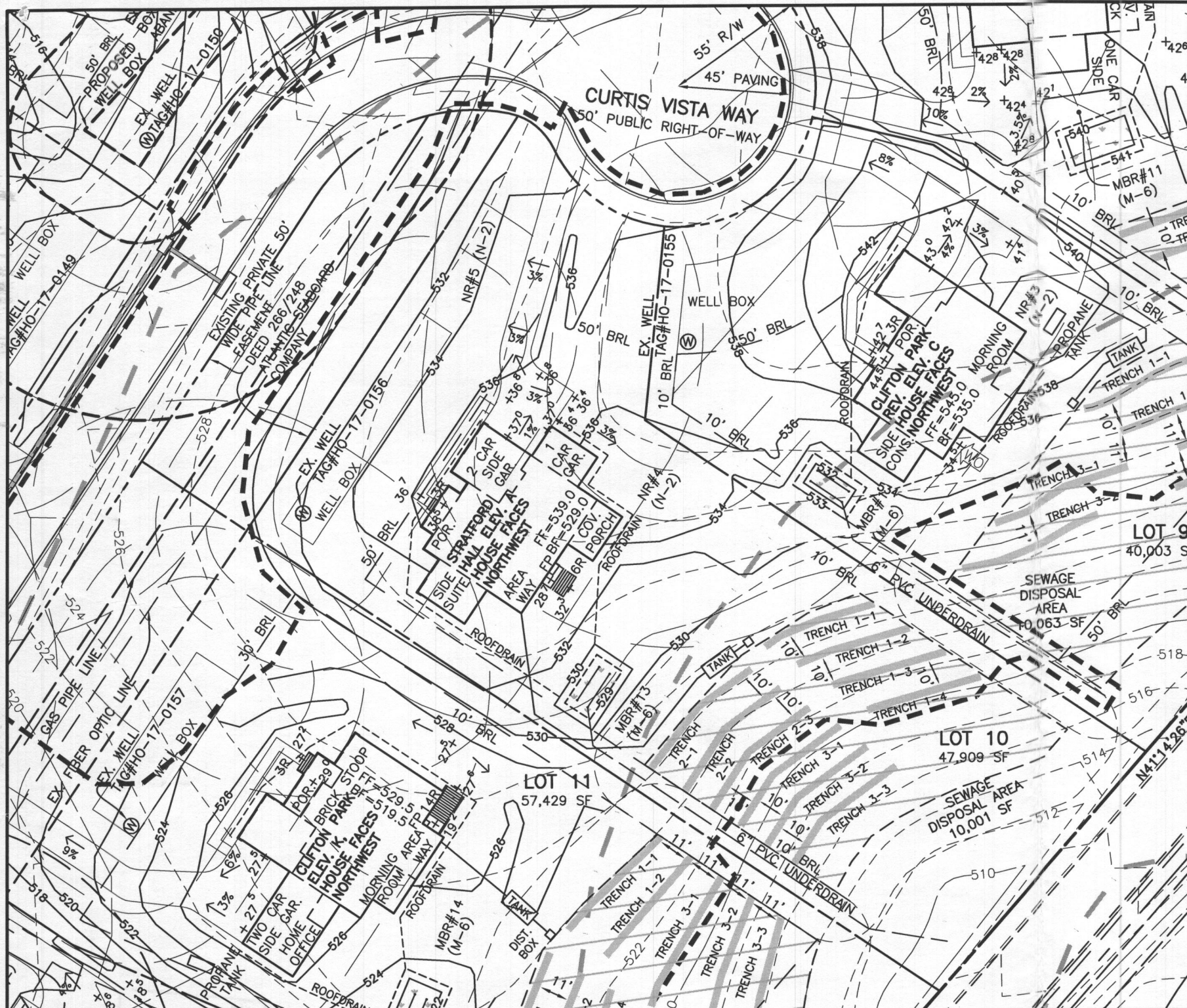
LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO
13610 CURTIS VISTA WAY
CLARKSVILLE, MD 21029
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #600591

TITLE: ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

HOUSE TYPE: STRATFORD HALL - ELEVATION A

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

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



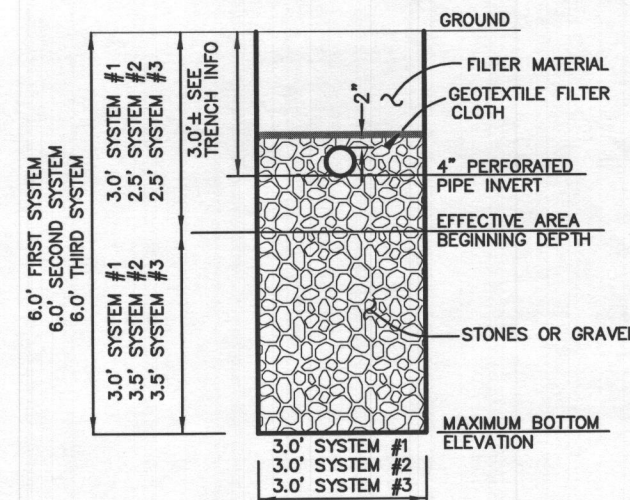
LEGEND

- 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

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. 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.
4. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
5. THE EXISTING WELL SHOWN ON THIS PLAN, HO-17-0156, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
6. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY TWO NON-ROOFTOP DISCONNECTIONS AND ONE MICRO-BIORETENTION FACILITY. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.
9. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.

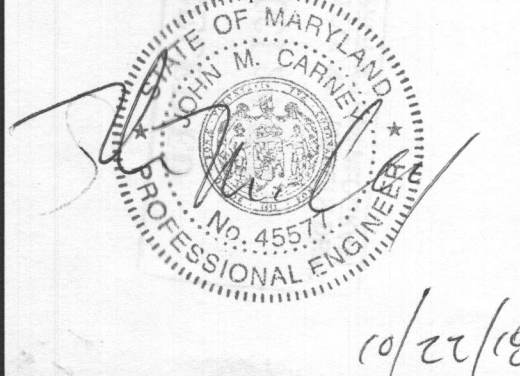
LOT 10



TYPICAL TRENCH DETAIL

NOT TO SCALE

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 |
|---|---|

BENCHMARK
ENGINEERS LAND SURVEYORS PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-6644
WWW.BEI-CMLENGINEERING.COM

| | |
|--|-------------------------|
| PROJECT: BRIGHTON MILL II LOT 10 | |
| LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13610 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #600591 | |
| TITLE: ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN | |
| HOUSE TYPE: STRATFORD HALL - ELEVATION A | |
| DATE: AUGUST, 2018 | PROJECT NO. 2627 |
| SCALE: AS SHOWN | DRAWING 1 OF 2 |

BENCHMARK



ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043
 410-465-6105 410-465-6644 (Fax)

LETTER OF TRANSMITTAL

| | | | |
|-----------|-------------------------|-------------|------|
| DATE | 8/29/14 | PROJECT No. | 2627 |
| ATTENTION | Dana Bernard | | |
| RE: | Brighton Mill II Lot 10 | | |
| | 13610 Curt's Vista Way | | |
| | | | |
| | | | |
| | | | |

TO: Howard County Health Dept

WE ARE SENDING YOU Attached Under separate cover via _____ the following items

- | | | | |
|---|--|---------------------------------------|--------------------------------------|
| <input type="checkbox"/> Photocopies | <input checked="" type="checkbox"/> Prints | <input type="checkbox"/> Originals | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Specifications | <input type="checkbox"/> Invoices | <input type="checkbox"/> Change Order | <input type="checkbox"/> Other _____ |

| COPIES of | No. of SHEETS | DESCRIPTION |
|-----------|---------------|---------------------|
| 3 | 2 | OSDS Permit Plan |
| - | - | Architectural Plans |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

THESE ARE TRANSMITTED as checked below

- | | | |
|--------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> For Comment | <input type="checkbox"/> For your use | <input type="checkbox"/> For Approval |
| <input type="checkbox"/> For Review | <input type="checkbox"/> As requested | <input checked="" type="checkbox"/> Other <u>Permit</u> |

REMARKS:

COPY TO: Jess

RECEIVED BY: Jesus King

SIGNED: MWR

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