

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: 9/23/2025 **ONSITE SEWAGE DISPOSAL SYSTEM** P 590219

APPROVAL DATE: 10/10/2025 **PERMIT: UPGRADE** A _____

PROPERTY ADDRESS: 6500 Old Hill Top Court 11

SUBDIVISION: Clarksville Crossing LOT: Parcel D TAX ID: 05-344298

CONTRACTOR: Hartford's Equipment EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: Williamsburg Homes EMAIL: _____

OWNER ADDRESS: 5485 Harpers Farm Road, Columbia, MD 21044 PHONE: 410-997-8800

SEPTIC TANK SIZE: 2000 PUMP SIZE: _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>231 (3 x 77')</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.5</u>
LOCATION:	SYSTEM TO BE STAKED BY DESIGNER AND VERIFIED BY APPROVING AUTHORITY DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	_____	

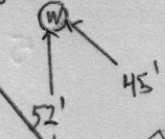
ISSUED BY: Hank Oswald ISSUE DATE: 9/23/25 EXPIRATION DATE: 9/23/26

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED
- 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 SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE 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: THE HCHD DOES NOT WARRANT ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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.**

1" = 50'
NOT TO SCALE

HO-20-0272



Not the right
house footprint

See Separate sheet for ASbuilt

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 3' BOTTOM 8'

NUMBER OF TRENCHES 3

TOTAL LENGTH 238'

ABSORPTION AREA 914 ft² + 5'

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 2'-3'

* BAFFLES 6" Front + 4" 5200

BAFFLE FILTER -

MANHOLE LOC front/back

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED yes

DATE ON LID 8/27/25

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

6" PORT LOC

WATERTIGHT TEST

SLOTTED

DATE ON LID

CONTROL PANEL DATA

CONTROL PANEL HEIGHT (MIN 30")

INSPECTION DATE

INSPECTION: PASS/FAIL (CIRCLE ONE)

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: TODD TRACEY
SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD. YES/NO

PRE-CONSTRUCTION NOTES:

10/7/25 - contractor onsite laid out 3 trenches on contour

w/ transit @ 77' each. SDA's ST stakes are in place, trench stakes 13' CTC.

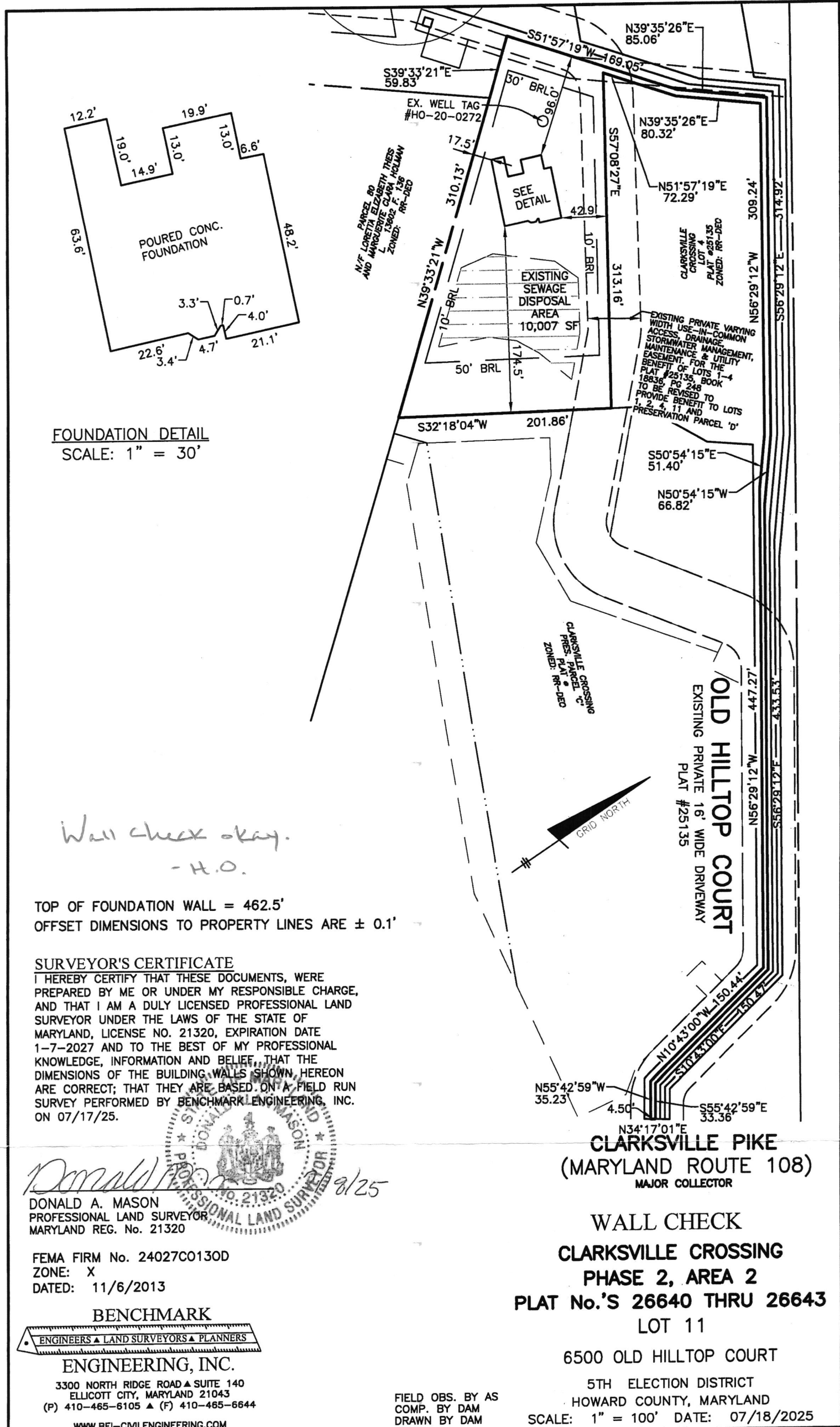
Contractor to move dbox closer to the first trench ok to begin construction. ok

INSTALLATION NOTES:

10/9/25 - Contractor onsite working on top trench, septic tank in the ground, no risers or baffles yes, No SHC, back line to dbox completed, the ASBUILT needed to be redone footprint of the house matches the wall check but not the OSDS plan. See Zack Silvest, ok to continue (Stone marginal - sample taken) ok 10/10/2025 - installer onsite for inspection. All 3 trenches done lengths 78', 80', & 80'. hier @ 3'. Stone marginal + plastic on. Drainage ETS 8' @ ends but 9'-10' @ beginning. closer @ ends because of forest can tree make it difficult to maneuver machines.

FINAL INSPECTOR S. Price

DATE OF APPROVAL 10/10/2025



FOUNDATION DETAIL
SCALE: 1" = 30'

*Wall check okay.
- H.O.*

TOP OF FOUNDATION WALL = 462.5'
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 1-7-2027 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 07/17/25.

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

FEMA FIRM No. 24027C0130D
ZONE: X
DATED: 11/6/2013

BENCHMARK
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
3300 NORTH RIDGE ROAD ▲ SUITE 140
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 ▲ (F) 410-465-6644
WWW.BEI-CIVLENGINEERING.COM

FIELD OBS. BY AS
COMP. BY DAM
DRAWN BY DAM

CLARKSVILLE PIKE
(MARYLAND ROUTE 108)
MAJOR COLLECTOR

WALL CHECK
CLARKSVILLE CROSSING
PHASE 2, AREA 2
PLAT No.'S 26640 THRU 26643
LOT 11
6500 OLD HILLTOP COURT
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' DATE: 07/18/2025

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341

11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048071

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 1 10:34:20AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 703P - MAISEL TRUCKING

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69420
P.O.#: CLARKSVILLE CROSSING Tare: 27560
Proj#: LOT #11 Net: 41860
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 20.93

	Loads	Tons
Job/Daily:	9	193.01
Job/Total:	28	609.42

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341

11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048002

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 1 7:29:47AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 740G - DAVID COBLENTZ

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69840
P.O.#: CLARKSVILLE CROSSING Tare: 26420
Proj#: LOT #11 Net: 43420
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 21.71

	Loads	Tons
Job/Daily:	1	21.71
Job/Total:	20	438.12

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

Have A Great Day. Please Drive Safely!

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341

11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048038

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 1 9:12:37AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 656A - MJM TRANSPORTATION, INC

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69420
P.O.#: CLARKSVILLE CROSSING Tare: 27580
Proj#: LOT #11 Net: 41840
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 20.92

	Loads	Tons
Job/Daily:	7	149.46
Job/Total:	26	565.87

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341

11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048017

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 1 8:11:48AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 761C - DELAP TRANSPORT, LLC

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69420
P.O.#: CLARKSVILLE CROSSING Tare: 26180
Proj#: LOT #11 Net: 43240
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 21.62

	Loads	Tons
Job/Daily:	2	43.33
Job/Total:	21	459.74

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

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Material Safety Data Information Available Upon Request.

Have A Great Day. Please Drive Safely!

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341
11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048029

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 1 8:48:10AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 186C - BMR TRUCKING

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69000
P.O.#: CLARKSVILLE CROSSING Tare: 23860
Proj#: LOT #11 Net: 45140
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 22.57

	Loads	Tons
Job/Daily:	5	107.30
Job/Total:	24	523.71

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

Have A Great Day. Please Drive Safely!

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341

11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048022

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 1 8:28:00AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 107A - LEVEL UP TRUCKING

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69520
P.O.#: CLARKSVILLE CROSSING Tare: 28260
Proj#: LOT #11 Net: 41260
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 20.63

	Loads	Tons
Job/Daily:	3	63.96
Job/Total:	22	480.37

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341
11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048037

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 1 9:10:44AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 931D - E.C. SPARROW TRUCKING

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69100
P.O.#: CLARKSVILLE CROSSING * Tare: 26620
Proj#: LOT #11 Net: 42480
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 21.24

	Loads	Tons
Job/Daily:	6	128.54
Job/Total:	25	544.95

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

Have A Great Day. Please Drive Safely!

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341

11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 20480

Cust#: KENHAT 10/9/2
HATFIELDS EQUIP & DEDICATION SVSC, 1 8:31:3
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 931E - E.C. SPARROW TRUCKING

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 68
P.O.#: CLARKSVILLE CROSSING Tare: 27
Proj#: LOT #11 Net: 41
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 20

	Loads	T
Job/Daily:	4	84
Job/Total:	23	501

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

S.W. BARRICK - BARRICK QUARRY
PH: (301) 845-6341
11609 Legore Bridge Road * Woodsboro, MD 21798

Scale:1 TKT: 2048062

Cust#: KENHAT 10/9/2025
HATFIELDS EQUIP & DEDICATION SVSC, 110:08:03AM
Job#: CLACRO CLARKSVILLE CROSSING
6500 OLD HILLTOP COURT, HIGHLAND

TRK#: 787A - M. DORSEY TRUCKING

Zone#: M-11 - BARRICK DELIVERY ZONE Gross: 69700 * P. T.
P.O.#: CLARKSVILLE CROSSING * Tare: 24460
Proj#: LOT #11 Net: 45240
Mat'l#: 22W-DBL WSHED AASHTO #2 STONE TONS: 22.62

	Loads	Tons
Job/Daily:	8	172.08
Job/Total:	27	588.49

Directions:

OS TODD 410-984-4880 CALL WHEN ON WAY

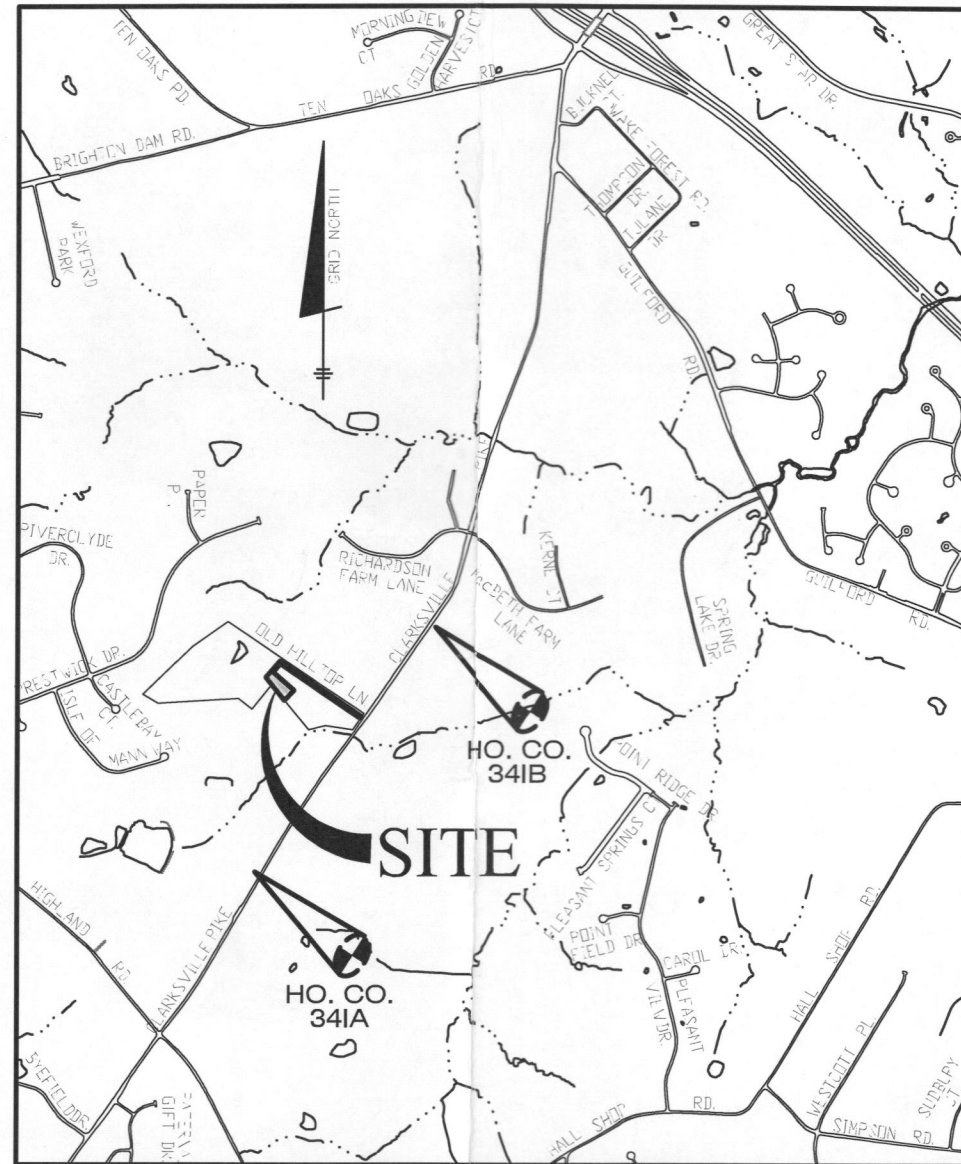
WEIGHMASTER: Madison Diaz

We exercise No Control Over Delivery of Our Products & We Won't
be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

GENERAL NOTES

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR CLARKSVILLE CROSSING, PLAT NUMBER 26640-26643 REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREA, ALL EASEMENTS AND CONDITIONS.
2. THE EXISTING WELL SHOWN ON THIS PLAN (HO-20-0272) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
3. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
4. TOPOGRAPHY SHOWN WAS PREPARED BY BENCHMARK ENGINEERING, INC. DATED AUGUST, 2013, AND INCLUDES PROPOSED GRADING AS SHOWN ON THE MASS GRADING PLAN FOR LOTS 1-4 AS EXISTING CONDITIONS.
5. SEDIMENT AND EROSION CONTROLS WILL BE SUBMITTED BY HOWARD SOILS CONSERVATION DISTRICT AS A CUSTOM GRADING PLAN.
6. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED BUILDING PERMIT AND CUSTOM GRADING PLANS.
7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. ANY CHANGES 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.
9. ANY ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
10. THE SEPTIC TANK WILL BE A 2000 GALLON TWO COMPARTMENT TANK.
11. THE MAXIMUM EARTH COVER OVER A TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
12. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS/OR SEPTIC SYSTEM HAVE BEEN SHOWN.
13. ANY FUTURE WELLS SHALL BE 10' FROM DRIVEWAY.
14. MICRO-BIORETENTION SWM FACILITIES WITHIN 100' OF A WELL SITE OR WELL BOX WILL BE LINED. MICRO-BIORETENTION FACILITIES ARE NOT ALLOWED CLOSER THAN 50' TO A WELL SITE OR WELL BOX.



SCALE: 1" = 2000'
ADC MAP 31; GRID C4

Approved Septic System Plan
Howard County Health Department
D. Beirav 2-10-25
Signature Date
5 Bed rooms
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: 06/08/2026

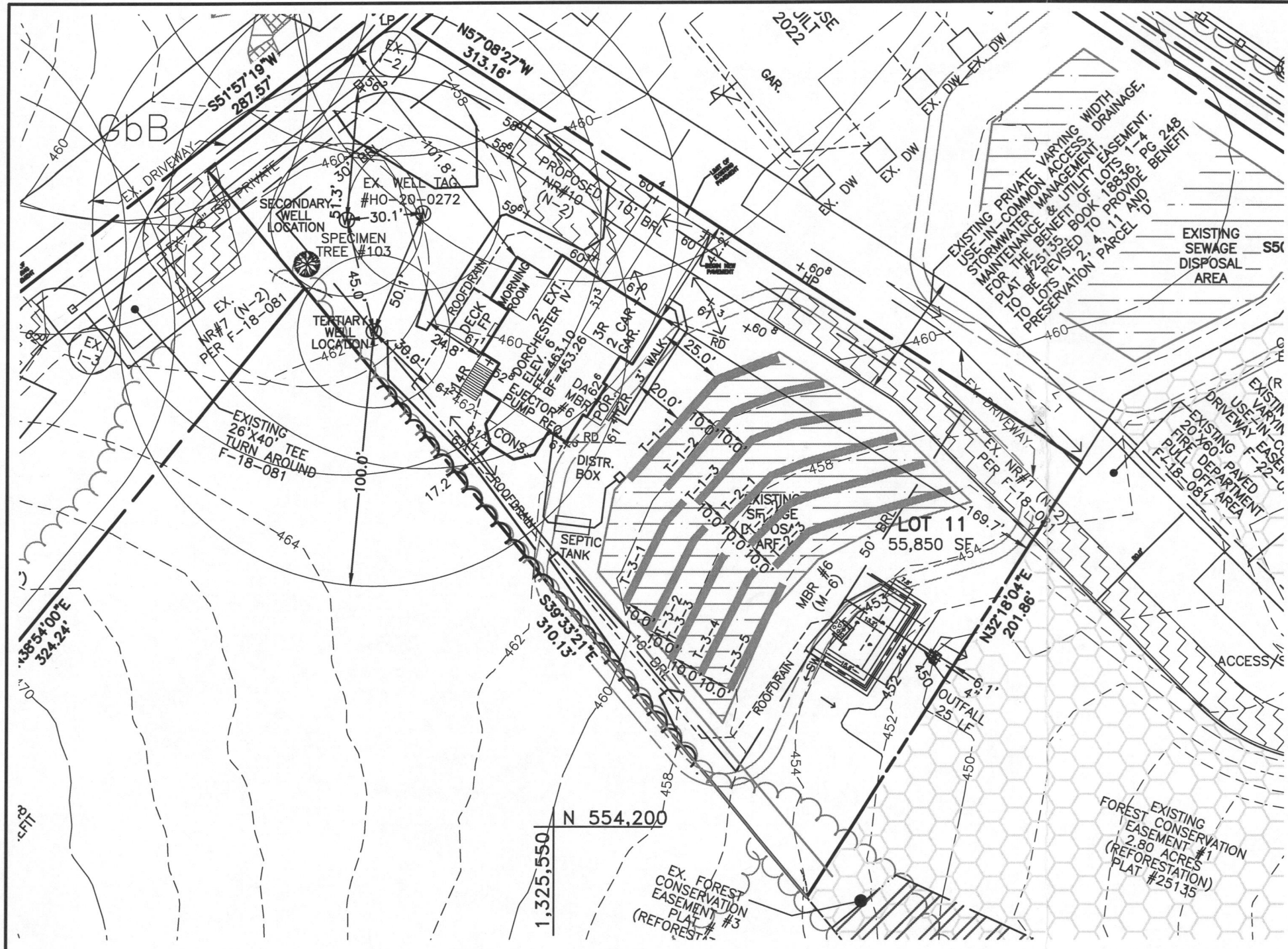


John M. Carney
1/22/25

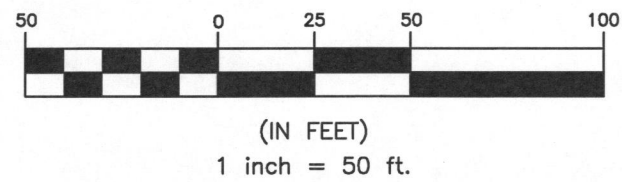
PROJECT: CLARKSVILLE CROSSING LOT 11	
LOCATION: TAX MAP: 34 - GRID: 23 - PARCEL: 301 6500 OLD HILLTOP CT. - TAX ID: 05-605088 ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND	
TITLE: ONSITE SEWAGE DISPOSAL SYSTEM PLAN	
HOUSE TYPE: DORCHESTER IV	
DATE: JANUARY 22, 2025	PROJECT NO. 2525
SCALE: AS SHOWN	DRAWING 1 OF 3

BUILDER:
WILLIAMSBURG HOMES
5485 HARPERS FARM ROAD
COLUMBIA, MARYLAND 21044
410-997-8800

BENCHMARK
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
3300 NORTH RIDGE ROAD ▲ SUITE 140
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 ▲ (F) 410-465-6644
WWW.BEI-CVLENGINEERING.COM



PLAN VIEW
1" = 50'

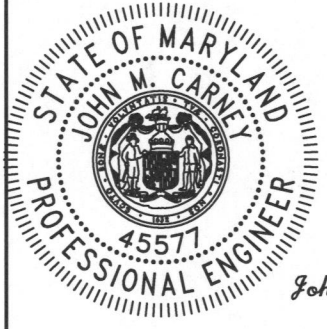


BUILDER:
WILLIAMSBURG HOMES
5485 HARPERS FARM ROAD
COLUMBIA, MARYLAND 21044
410-997-8800

BENCHMARK
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
3300 NORTH RIDGE ROAD ▲ SUITE 140
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 ▲ (F) 410-465-6644
WWW.BEI-CIVLENGINEERING.COM

Approved Septic System Plan
Howard County Health Department
Devarid 2-10-25
Signature Date

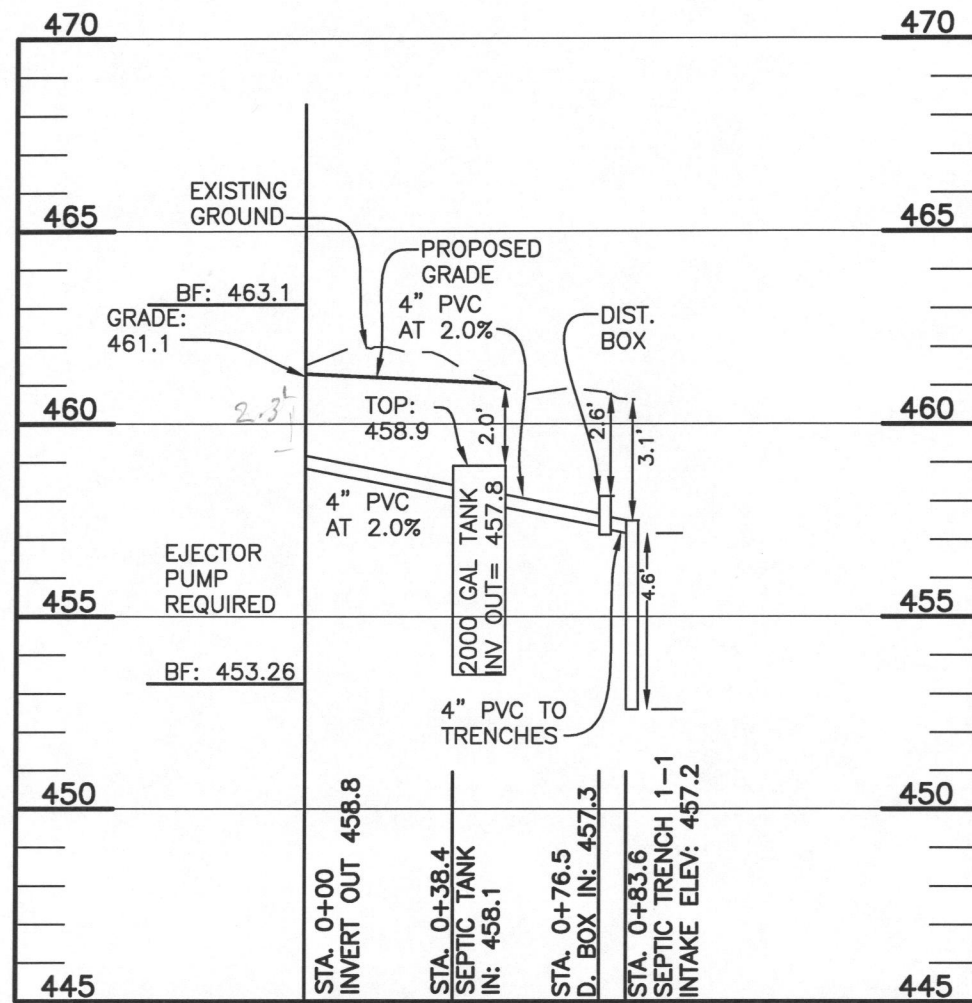
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 45577, Expiration Date: 06/08/2026



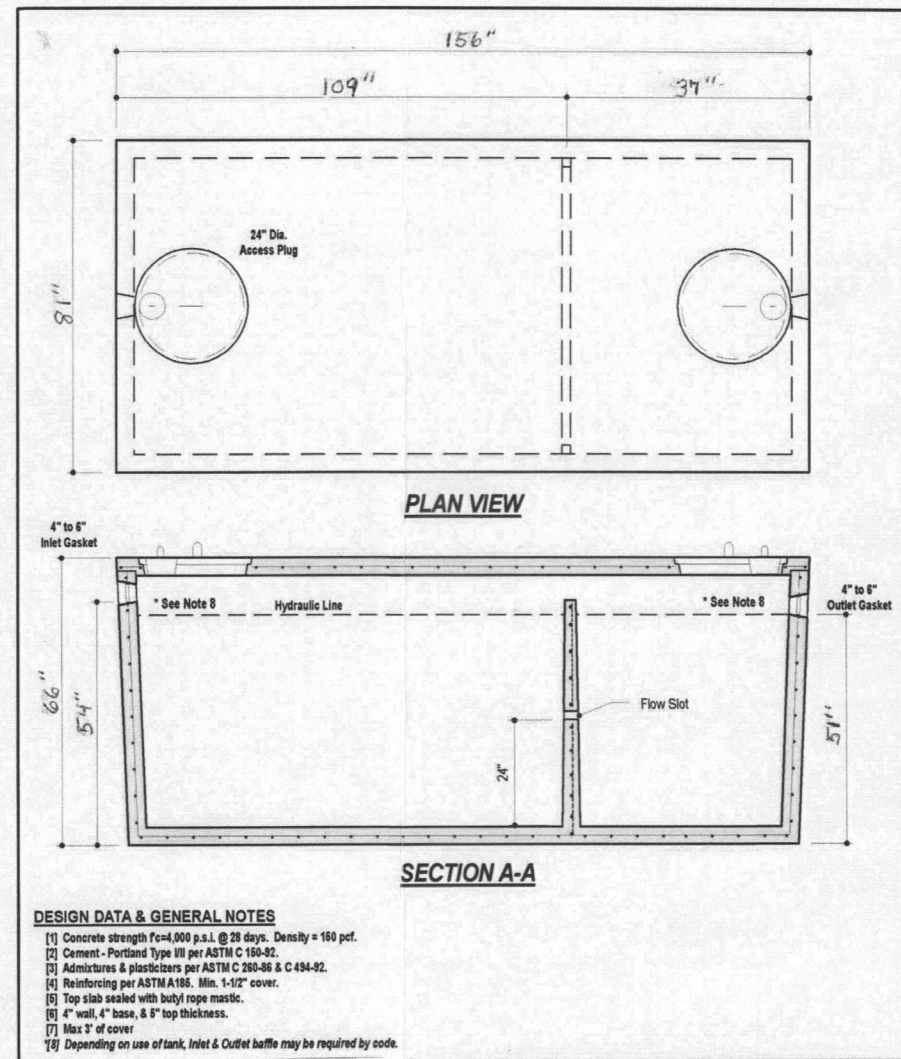
John M. Carney
1/22/25

TRENCH DATA - LOT 11					
INITIAL SYSTEM		FIRST REPLACEMENT		SECOND REPLACEMENT	
TRENCH 1-1	LENGTH 77.4 ft	TRENCH 2-1	LENGTH 77.2 ft	TRENCH 3-1	LENGTH 46.3 ft
GROUND ELEVATION	460.6	GROUND ELEVATION	458.2	GROUND ELEVATION	459.4
INVERT ELEVATION	457.2	INVERT ELEVATION	456.2	INVERT ELEVATION	456.9
MAX BOTTOM ELEVATION	452.6	MAX BOTTOM ELEVATION	450.2	MAX BOTTOM ELEVATION	451.4
TRENCH 1-2	LENGTH 77.2 ft	TRENCH 2-2	LENGTH 77.2 ft	TRENCH 3-2	LENGTH 46.3 ft
GROUND ELEVATION	459.9	GROUND ELEVATION	457.4	GROUND ELEVATION	458.6
INVERT ELEVATION	456.9	INVERT ELEVATION	455.4	INVERT ELEVATION	456.6
MAX BOTTOM ELEVATION	451.9	MAX BOTTOM ELEVATION	449.4	MAX BOTTOM ELEVATION	450.6
TRENCH 1-3	LENGTH 77.2 ft	TRENCH 2-3	LENGTH 77.2 ft	TRENCH 3-3	LENGTH 46.3 ft
GROUND ELEVATION	459.1	GROUND ELEVATION	456.5	GROUND ELEVATION	457.8
INVERT ELEVATION	456.6	INVERT ELEVATION	454.5	INVERT ELEVATION	455.8
MAX BOTTOM ELEVATION	451.1	MAX BOTTOM ELEVATION	448.5	MAX BOTTOM ELEVATION	449.8
				TRENCH 3-4	LENGTH 46.3 ft
				GROUND ELEVATION	456.9
				INVERT ELEVATION	454.9
				MAX BOTTOM ELEVATION	448.9
				TRENCH 3-5	LENGTH 46.3 ft
				GROUND ELEVATION	456.1
				INVERT ELEVATION	454.1
				MAX BOTTOM ELEVATION	448.1

PROJECT:	CLARKSVILLE CROSSING LOT 11		
LOCATION:	TAX MAP: 34 - GRID: 23 - PARCEL: 301 6500 OLD HILLTOP CT. - TAX ID: 05-605088 ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND		
TITLE:	PRELIMINARY SITING PLAN		
HOUSE TYPE:	DORCHESTER IV		
DATE:	JANUARY 22, 2025	PROJECT NO.	2525
SCALE:	AS SHOWN	DRAWING	2 OF 3



SEWER LINE LOT 11
SCALE: 1"=50' HORIZ., 1"=5' VERT.



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 260-96 & C 494-92.
 (4) Reinforcing per ASTM A198. 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.



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

INITIAL SYSTEM - LOT 11		
Number of Bedrooms	5	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	5.5	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	1250	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	231	lf

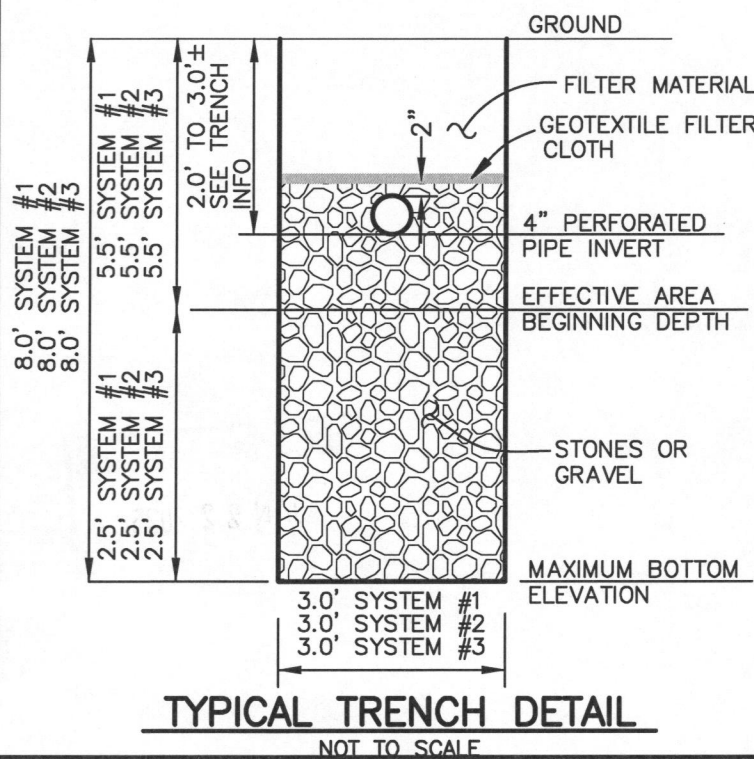
1st REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	5.5	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	1250	sf
Sidewall Reduction Credit	0.56	
Trench width	3	ft
Effective Area Depth	2.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	231	lf

2nd REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	5.5	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	1250	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	231	lf

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: 06/08/2026



John M. Carney
1/22/25



TYPICAL TRENCH DETAIL
NOT TO SCALE

SEPTIC INFORMATION - LOT 11			
System	Application Rate	Effective Depth	Bottom Depth
Initial	0.6	5.5	8.0
1st Replacement	0.6	5.5	8.0
2nd Replacement	0.6	5.5	8.0

SEPTIC INVERT CHART - LOT 11	
INV @ HOUSE	458.8
GROUND @ HOUSE	461.1
INV IN TANK	458.1
INV OUT TANK	457.8
TOP OF TANK	458.9
GROUND OVER TANK	460.9
INV IN DIST BOX	457.3
INV OUT DIST BOX	457.2
GROUND AT DIST BOX	460.8

BUILDER:
 WILLIAMSBURG HOMES
 5485 HARPERS FARM ROAD
 COLUMBIA, MARYLAND 21044
 410-997-8800

BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
 3300 NORTH RIDGE ROAD ▲ SUITE 140
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 ▲ (F) 410-465-6644
 WWW.BEI-CVILENGINEERING.COM

PROJECT:	CLARKSVILLE CROSSING LOT 11		
LOCATION:	TAX MAP: 34 - GRID: 23 - PARCEL: 301 6500 OLD HILLTOP CT. - TAX ID: 05-605088 ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND		
TITLE:	ONSITE SEWAGE DISPOSAL SYSTEM PLAN		
HOUSE TYPE:	DORCHESTER IV		
DATE:	JANUARY 22, 2025	PROJECT NO.	2525
SCALE:	AS SHOWN	DRAWING	3 OF 3