

VICINITY MAP
SCALE: 1" = 2000'
ADC MAP PAGE 31, D-6

NOTES:

- 1- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 2- THE ON SITE TOPOGRAPHY SHOWN ON THIS PLAT IS BASED ON AN ACTUAL FIELD RUN SURVEY BY NJR & ASSOC. PERFORMED ON OCTOBER 1, 2019.
- 3- ALL EXISTING WELLS WITHIN 100 FOOT OF THIS SITE AS SHOWN HEREON ARE FIELD LOCATED.
- 4- ALL EXISTING SEPTIC FIELDS WITHIN 100 FOOT OF THIS SITE AS SHOWN HEREON ARE SCALED FROM AVAILABLE EXISTING PLANS.
- 5- THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
- 6- ANY TRENCHING UNDERNEATH A DRIVEWAY MUST BE CONSTRUCTED OF SCH 40 PVC OR EQUIVALENT AND THE DISTRIBUTION BOX AND OBSERVATION PIPES MUST BE LOCATED OUTSIDE THE DRIVEWAY.
- 7- PRIOR TO THE HEALTH DEPARTMENT SIGNATURE OF THE FINAL RECORD PLAT, ALL WELLS MUST BE DRILLED WITH COMPLETION REPORTS APPROVED BY THE HEALTH DEPARTMENT.
- 8- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT ARE AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
- 9- THIS AREA DESIGNATES A PRIVATE SEWAGE RESERVE, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

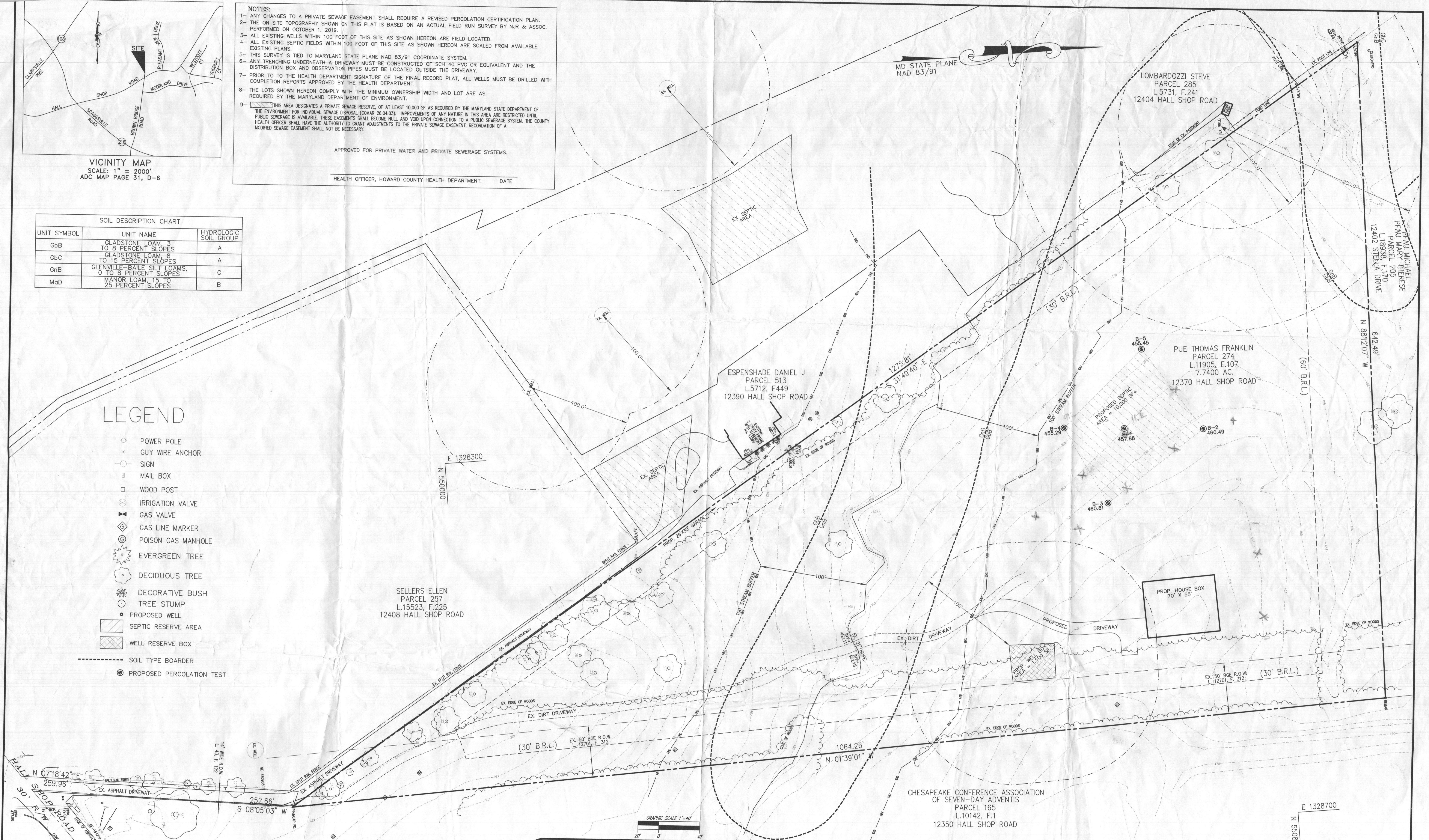
APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT. DATE

SOIL DESCRIPTION CHART		
UNIT SYMBOL	UNIT NAME	HYDROLOGIC SOIL GROUP
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	A
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B

LEGEND

- POWER POLE
- × GUY WIRE ANCHOR
- SIGN
- MAIL BOX
- WOOD POST
- ⊗ IRRIGATION VALVE
- ⊕ GAS VALVE
- ◇ GAS LINE MARKER
- ⊙ POISON GAS MANHOLE
- ⊛ EVERGREEN TREE
- ⊙ DECIDUOUS TREE
- ⊙ DECORATIVE BUSH
- TREE STUMP
- PROPOSED WELL
- ▨ SEPTIC RESERVE AREA
- ▨ WELL RESERVE BOX
- SOIL TYPE BOARDER
- ⊙ PROPOSED PERCOLATION TEST

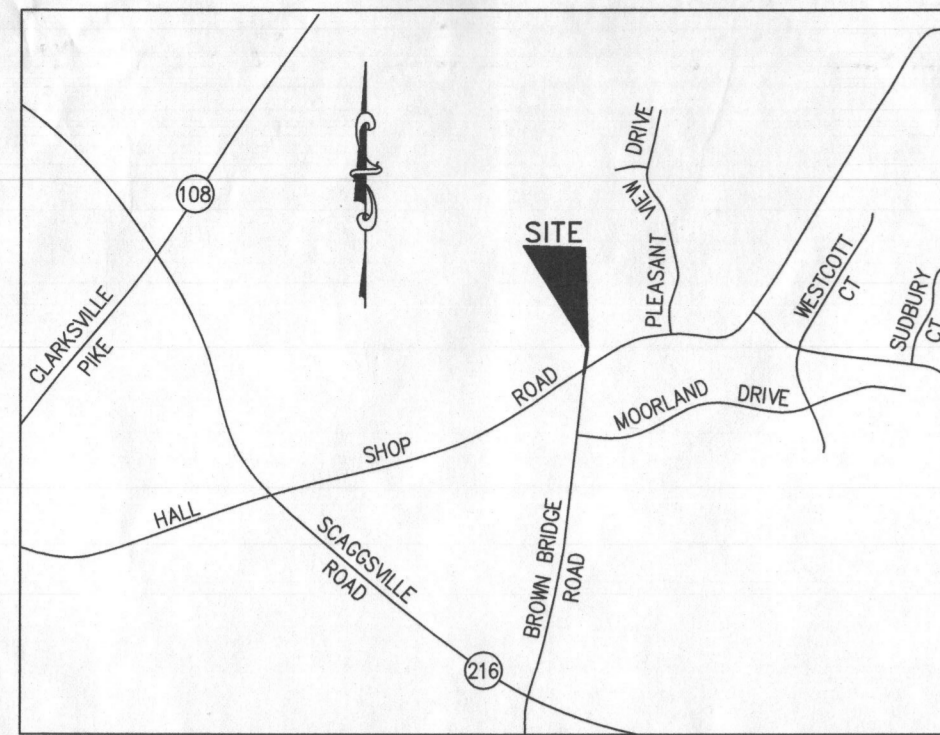


REVISIONS	DATE: MARCH 17, 2020	
	JOB NUMBER: 3560	
	FILE NUMBER: 3560-SEPTIC	
	PLOTTED: MARCH 18, 2020	
	DRAWN BY: WR	
	SCALE: 1" = 40'	SHEET 1 OF 1

PLAN PREPARED BY:

NJR & ASSOCIATES
Land Surveying and Planning
2770 STATE ROUTE 32
WEST FRIENDSHIP, MD 21794
TEL: (240) 508-3200

PERCOLATION CERTIFICATION PLAN
PARCEL 274
TAX MAP 40, GRID 6
LIBER 11905, FOLIO 107
12370 HALL SHOP ROAD, HIGHLAND, MARYLAND 20777
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



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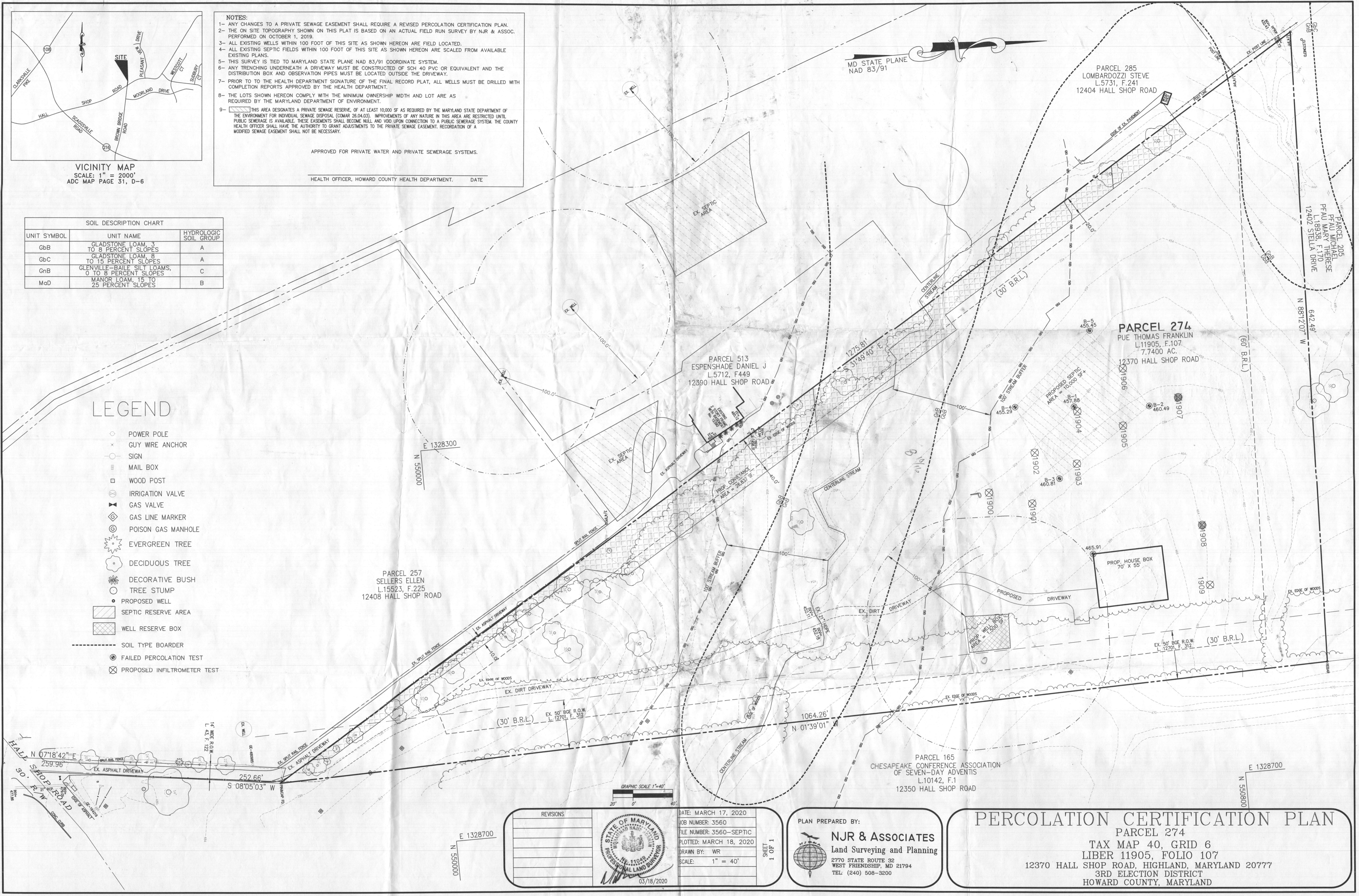
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HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT. DATE

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GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A
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MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B

LEGEND

- POWER POLE
- × GUY WIRE ANCHOR
- SIGN
- MAIL BOX
- WOOD POST
- ⊕ IRRIGATION VALVE
- ⊕ GAS VALVE
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- ⊕ DECORATIVE BUSH
- TREE STUMP
- PROPOSED WELL
- ▨ SEPTIC RESERVE AREA
- ▨ WELL RESERVE BOX
- SOIL TYPE BOARDER
- ⊕ FAILED PERCOLATION TEST
- ⊕ PROPOSED INFILTRATOR TEST

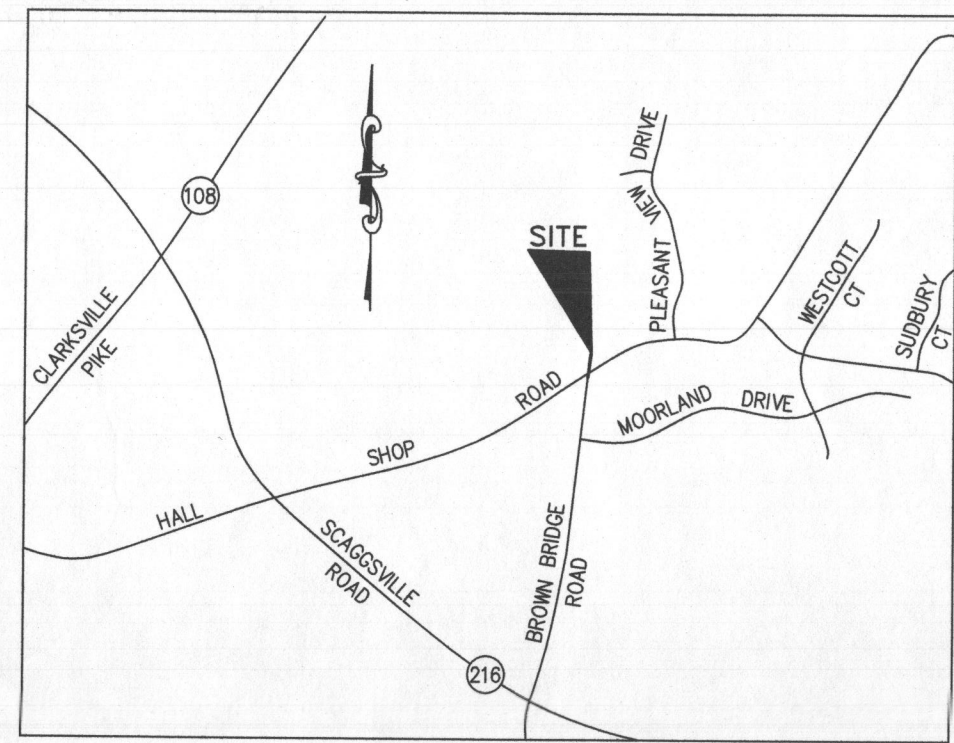


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 - 5- THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
 - 6- ANY PIPE UNDERNEATH A DRIVEWAY MUST BE CONSTRUCTED OF SCH 40 PVC OR EQUIVALENT AND THE CONVEYANCE PIPE MUST BE SLEEVED.
 - 7- PRIOR TO THE HEALTH DEPARTMENT SIGNATURE OF THE BUILDING PERMIT, THE WELL MUST BE DRILLED AND THE COMPLETION REPORT APPROVED BY THE HEALTH DEPARTMENT.
 - 8- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
 - 9- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL FOR SAND MOUNDS (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECONSTRUCTION OF A WOODED SEWAGE AREA SHALL NOT BE NECESSARY.
 - 10- THIS PERCOLATION CERTIFICATION PLAN IS SUBMITTED FOR APPROVAL OF AN INITIAL ONSITE SEWAGE DISPOSAL SYSTEM (OSDS) AND ONE REPAIR OSDS. AS COUNTY CODE REQUIRES 2 REPAIR OSDS, THIS PLAN PROPOSES THAT A BAT UNIT IS INCLUDED IN THE OSDS IN LIEU OF THE 2ND REPAIR OSDS THEREBY FULFILLING THE REQUIREMENT FOR THE WAIVER TO BE GRANTED. APPROVAL OF THIS PERCOLATION CERTIFICATION PLAN EFFECTIVELY GRANTS THE WAIVER.
 - 11- THE SAND MOUNDS PROPOSED ON THIS PLAN ARE DESIGNED TO USE SAND COMPLIANT WITH CODE OF MARYLAND ANNOTATED REGULATION (COMAR) 26.04.02.05.(4)(K)(i). THIS STOCKPILE OF SAND DELIVERED TO THE SITE MUST BE SAMPLED AND THE ANALYSES MUST INDICATE THAT THE DELIVERED SAND HAS AN EFFECTIVE SIZE BETWEEN 0.25 mm AND 0.5 mm, AND A UNIFORMITY COEFFICIENT OF 3.5 OR LESS. SAND THAT DOES NOT MEET THESE PHYSICAL REQUIREMENTS SHALL BE REMOVED FROM THE SITE IMMEDIATELY.

DEVELOPER
CARUSO HOMES
2120 BALDWIN AVENUE,
Ste 200
CROFTON, MD 21144
(301) 261-0277

OWNER
THOMAS FRANKLIN PUE
168 DOYLE STREET
MORGANTOWN, WV 26505
(304) 292-9876

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

[Signature]
HEALTH OFFICER/HOWARD COUNTY HEALTH DEPARTMENT 1/22/21
DATE

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EQUATIONS FOR CALCULATING SAND MOUND DIMENSIONS

DESIGN FLOW FOR 5 BEDROOM HOUSE = 5 X 150 gpd = 750 gpd
 ABSORPTION BED (A X B) = 750 / 1.2 GPD / FT. = 625 SQ.FT. (MIN.), 650 SQ. FT. (USED)

BED LENGTH (B) = 75.0 FT. (42' TO 104' DEPENDENT ON SITE)
 BED WIDTH (A) = 650/75 = 8.67 FT.

LINEAR LOADING RATE = DESIGN FLOW / BED LENGTH = 750 / 75 = 10 (MUST BE 10 OR LESS)

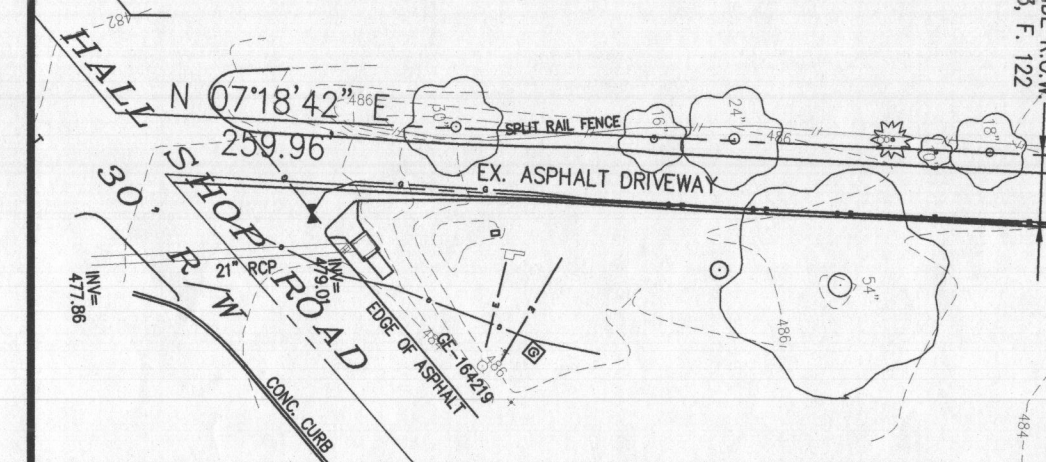
UPSLOPE SAND FILL DEPTH (D) = 48 IN. - 2 = 46 IN. (12 IN. MIN.)
 DOWNSLOPE SAND FILL DEPTH (E) = (12 (8.67) X 7.0% SLOPE) + 12 IN. = 19.3 IN.
 CAP + TOPSOIL AT BED CENTER (H) = 18 IN.
 CAP + TOPSOIL AT BED EDGE (G) = 12 IN.
 TOTAL BED DEPTH (F) = 10 IN.
 SIDESLOPE SETBACK (K) = ((12 + 20.4) + 28 IN.) X 3 = 132.6 IN. (11.05')

UPSLOPE SETBACK (J) = (22 IN. + 12) X 3 X 0.83 (UPSLOPE CORR. FACTOR) = 84.7 IN. (7.05')
 DOWNSLOPE SETBACK (I) = (22 IN. + 19.3) X 3 X 1.27 (DOWNSLOPE CORR. FACTOR) = 157.4 IN. (13.11')

TOTAL WIDTH OF MOUND (W) = 8.67 + 7.05 + 13.11 = 28.83'
 TOTAL LENGTH OF MOUND (L) = 75 + 11.05 + 11.05 = 97.1'
 BASAL AREA REQUIRED = 750 / 1.2 = 625 SQ. FT.
 BASAL AREA PROVIDED = (8.67 + 13.11) X 75 = 1,633 SQ. FT.

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- DECORATIVE BUSH
- ▨ SEWAGE DISPOSAL AREA
- ▨ SEWAGE INFILTRATION AREA
- ▨ WELL RESERVE BOX
- SOIL TYPE BOARDER
- ⊙ FAILED PERCOLATION TEST
- ⊗ FAILED INFILTRMETER TEST
- ⊙ PASSED INFILTRMETER TEST
- ⊙ EXISTING WELL



MISS UTILITY
CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

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STATE OF MARYLAND
PROFESSIONAL LAND SURVEYOR
No. 11059
1/13/2021

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