

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: 8/6/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 565585

APPROVAL DATE: 09/10/2019 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 14516 OLD FREDERICK ROAD, COOKSVILLE, MD 21723

SUBDIVISION: QUARTZ HILL III LOT: 2 TAX ID: _____

CONTRACTOR: WTC CONTRACTORS EMAIL: _____

CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-458-7024

PROPERTY OWNER: CATONSVILLE HOMES LLC EMAIL: pwalter@catonsvillehomes.com

OWNER ADDRESS: 11175 STRATFIELD CT, MARRIOTTSVILLE, MD 21104 PHONE: (410)442-2215

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: TBD

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

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

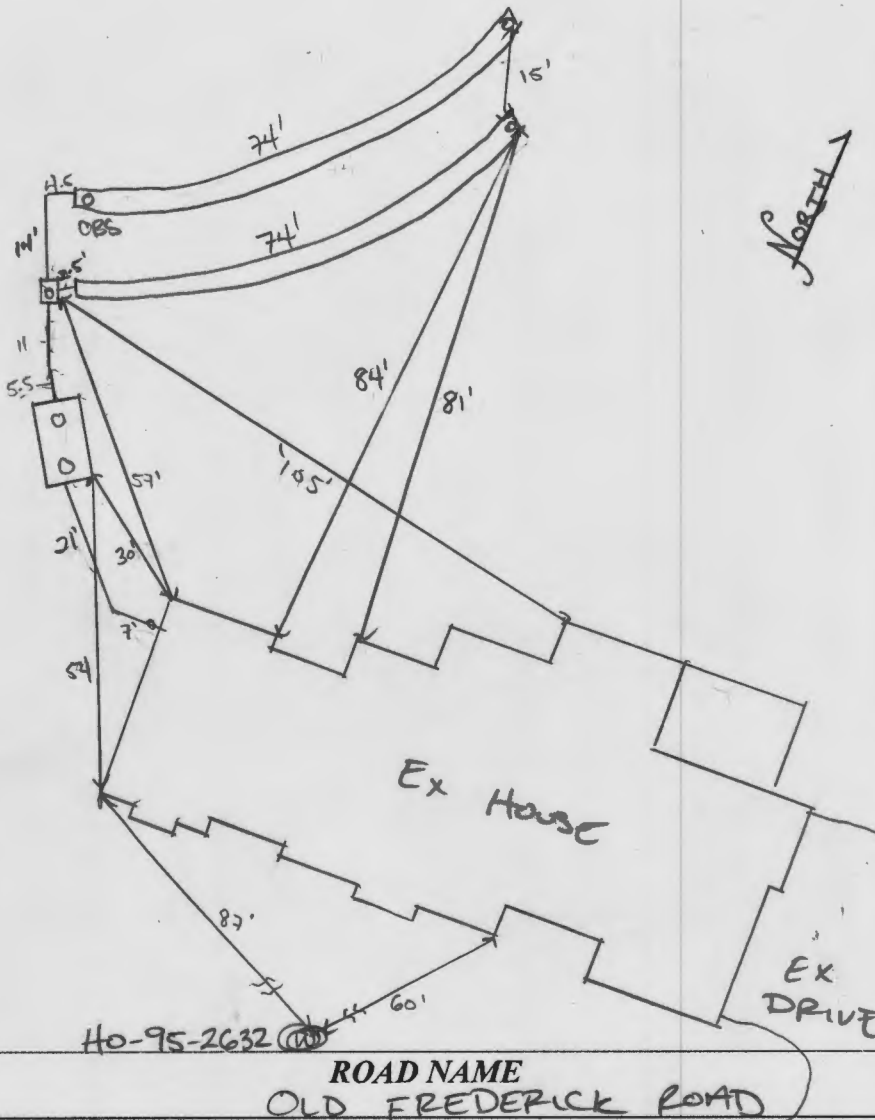
TRENCHES:	LINEAR FEET REQUIRED: <u>147</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald ISSUE DATE: 8/6/19 EXPIRATION DATE: 8/6/20

- 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.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	7.5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		148 F
ABSORPTION AREA		444 SF + SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
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 3' (1) - 2' (0)
 BAFFLES YES
 BAFFLE FILTER NO
 MANHOLE LOC FRONT/BACK
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED YES
 DATE ON LID 03/30/2019

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:

9/5/19 Did layout in accordance w/ OSDS. (S)

INSTALLATION: 09/10/2019 TANK AND SHC REPORTED INSTALLED ON [9/9/2019] NOT INSPECTED, CONTRACTOR DID NOT CALL IN. TRENCHES INSTALLED, (S) BOX LEVELLED w/ SPEED LEVELS. OK TO BACKFILL. (S)

FINAL INSPECTOR

DATE OF APPROVAL

09/10/2019



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Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 14516 Old Frederick Rd

Subdivision: Quartz Hill III Lot: 2

333,334	Initial system:	Application rate: 0.8	Effective area beginning depth: 3	Bottom maximum depth: 7.5
89,341	1 st Replacement:	Application rate: 1.2	Effective area beginning depth: 3.5	Bottom maximum depth: 7.5
331,332 nd	Replacement:	Application rate: 0.8	Effective area beginning depth: 5	Bottom maximum depth: 7.5

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Tank and trenches must be placed as shallow as possible while maintaining 2% fall in pipe from house and at least 18" cover over trenches. If 2% fall from house is not possible, the minimum allowable fall is 1%.
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

SHC at 2% slope.
 Distribution Pipe Invent at 2' depth,
 if possible.
 No more than 3 feet soil cover over septic tank.

Approved: R Bricker Date: 3/11/2019

PRESERVATION
PARCEL A
PLAT No. 22814

NOTES:

- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
- 2) BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
- 3) TOP OF WALL = 596.22

LOT 3
QUARTZ HILL III
PLAT No. 22814

LOT 2
50,000 s.f.
1.1478 Ac.±

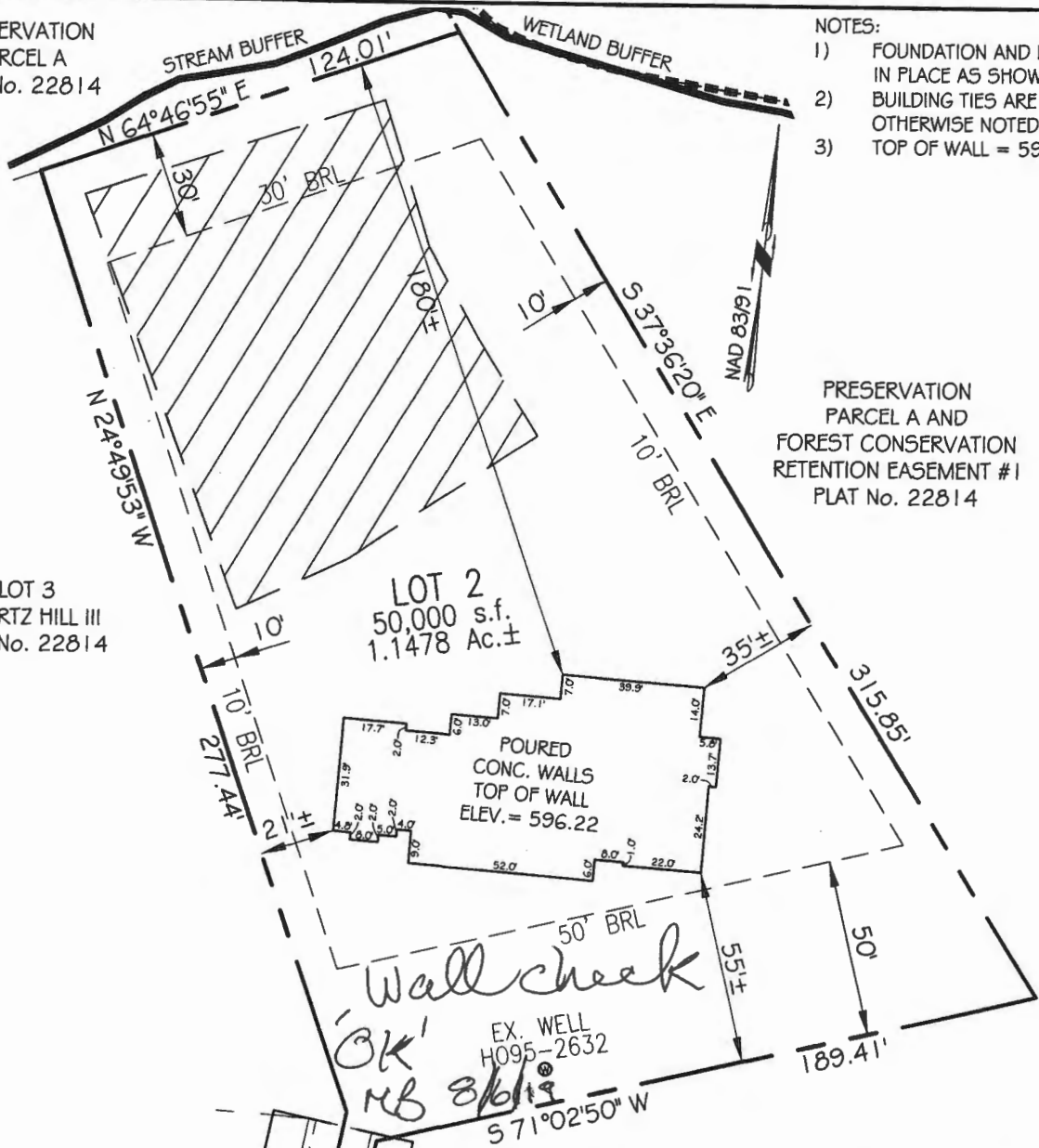
PRESERVATION
PARCEL A AND
FOREST CONSERVATION
RETENTION EASEMENT #1
PLAT No. 22814

PRESERVATION
PARCEL A
PLAT No. 22814

LOT 4
QUARTZ HILL III
PLAT No. 22814

LOT 1
QUARTZ HILL III
PLAT No. 22814

OLD FREDERICK ROAD



PRESERVATION
PARCEL A AND
FOREST CONSERVATION
RETENTION EASEMENT #1
PLAT No. 22814

POURED
CONC. WALLS
TOP OF WALL
ELEV. = 596.22

FOUNDATION DETAIL: 1" = 30'

PROFESSIONAL CERTIFICATION:

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. 21512, EXPIRATION DATE AUGUST 4, 2021 IN ACCORDANCE WITH COMAR 09.13.06.12

Jeffery W. Elkins 7/25/2019
Date

For VanMar Associates, Inc.
Jeffery W. Elkins, Prof. Land Surveyor



WALL CHECK DRAWING
LOT 2
QUARTZ HILL

PLAT No. 22814
14516 OLD FREDERICK ROAD
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' JULY, 2019

I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

REFERENCE

JOB NO.

PLAT NO. 22814

B6-5595



vanmar.com

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners

310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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Q:\AutoDesk\Jobs\B6-5595 Quartz Hill\dwg\Lot 2.dwg, 7/25/2019 12:48:37 PM, 1:1

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: Vanmar Associates, Inc.
310 South Main Street

FROM: Hank Oswald, L.E.H.S.
Well & Septic Program

RE: OSDS Plan
Quartz Hill III
14522 Old Frederick Road

Date: April 23, 2019

The following comments pertain to the review of the OSDS Plan for 14522 Old Frederick Road:

- 1.) Propane tank is too close to one of the alternate well sites. The setback from a propane tank to a well or well box is 100 ft. The setback may be reduced to over 50 feet only after all reasonable efforts have been made to separate them.
- 2.) Correct trench elevations in calculations. For example, Initial trench 1, 579 (Ex. G.) – 573 (B.G.) = 6 ft. It should be 7.5 ft. for all 3 systems.
- 3.) Provide 3 copies if you wish to receive a copy back for your records.

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, April 23, 2019 11:49 AM
To: 'ron@vanmar.com'
Subject: OSDS Plan_14516 Old Fred. Road
Attachments: OSDS_Memo To Vamar_14516 Old Frederick Road_4.23.19.pdf

Hi Ron:

Attached, please find comments on the OSDS Plan for 14516 Old Frederick Road. Should you have any questions, please don't hesitate to contact me.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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