

**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](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 9-25-17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 51d534-B  
 APPROVAL DATE: 10/4/17 SEC **PERMIT: CONSTRUCTION** A \_\_\_\_\_  
 PROPERTY ADDRESS: 14534 Old Frederick Road  
 SUBDIVISION: Teagan Creek Quartz Hill LOT: 4 TAX ID: 04-596403  
 CONTRACTOR: WTC Contractors EMAIL: \_\_\_\_\_  
 CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-458-7024  
 PROPERTY OWNER: Catonsville Homes, Inc. EMAIL: pwalter@catonsvillehomes.com  
 OWNER ADDRESS: 11175 Stratfield Court, Marriottsville, MD 21104 PHONE: 410-442-2215  
 SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: \_\_\_\_\_  
 PUMP MODEL: \_\_\_\_\_ PUMP SIZE: \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>4</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</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

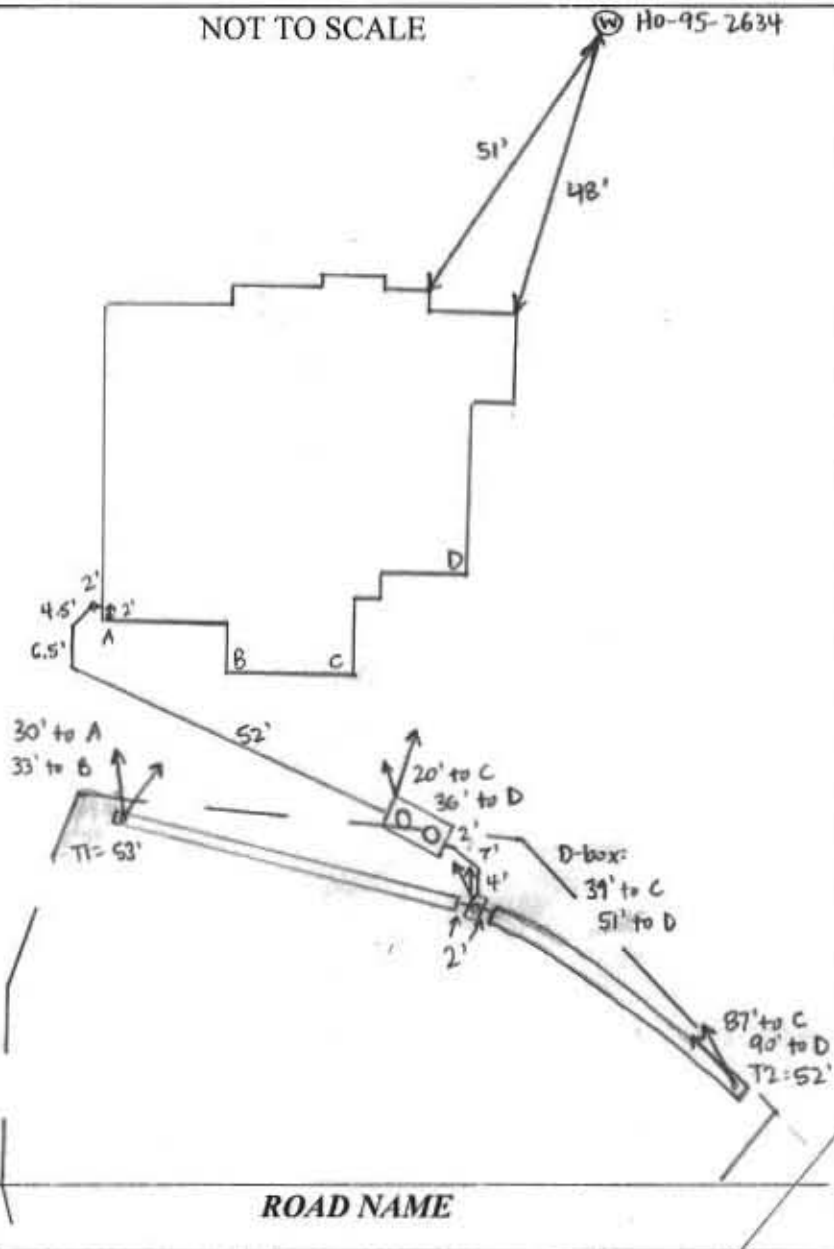
ISSUED BY: Robert Bricker ISSUE DATE: 9-25-17 EXPIRATION DATE: 9-25-18

- 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

W H0-95-2634



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES <u>2</u>		
TOTAL LENGTH <u>105'</u>		
ABSORPTION AREA <u>310' + SIDEWALL</u>		
DISTRIBUTION BOX LEVEL <u>YES</u>		
DISTRIBUTION BOX BAFFLE <u>YES</u>		
DISTRIBUTION BOX PORT <u>YES</u>		

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	<u>YES</u>
MANUFACTURER	<u>BABYLON</u>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>0.5-1.5'</u>
BAFFLES	<u>YES</u>
BAFFLE FILTER	<u>NO</u>
MANHOLE LOC	<u>FRONT + REAR</u>
6" PORT LOC	<u>NONE</u>
WATERTIGHT TEST	<u>NO</u>
SLOTTED	<u>YES</u>
DATE ON LID	<u>8-23-17</u>

**RUMP/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:**

10/3/17 met WTC and builder on site for layout. SDA corners staked. House connection not as shown on septic plan - at location on previous plan that builder received with permit. Will still make fall to tank location shown on most recent plan. Shot contour + laid out 2 x 52' trenches. Put D-box in middle. (SC)

INSTALLATION: 10/4/17 House connection made. Tank + D-box set, pipe laid between. WTC starting to dig trenches + add stone - 3' wide, 3.5' to stone, 8' bottom. Waiting for stone before continuing. Dirt looks good, no rock @ trench starts. (SC) 10/4/17 T2 finished + left open - 3' wide, 3.5' to stone. Digging T1 - using laser to check depths. ~10% rock last 10' of T1. Levelled speed levelers in D-box. On site while T1 digging complete. (SC)

FINAL INSPECTOR

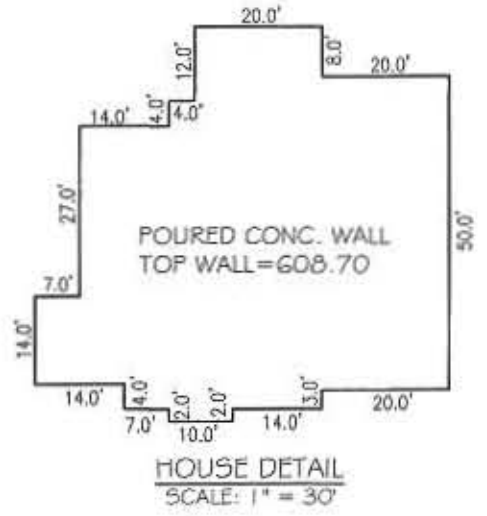
Sarah Collins

DATE OF APPROVAL

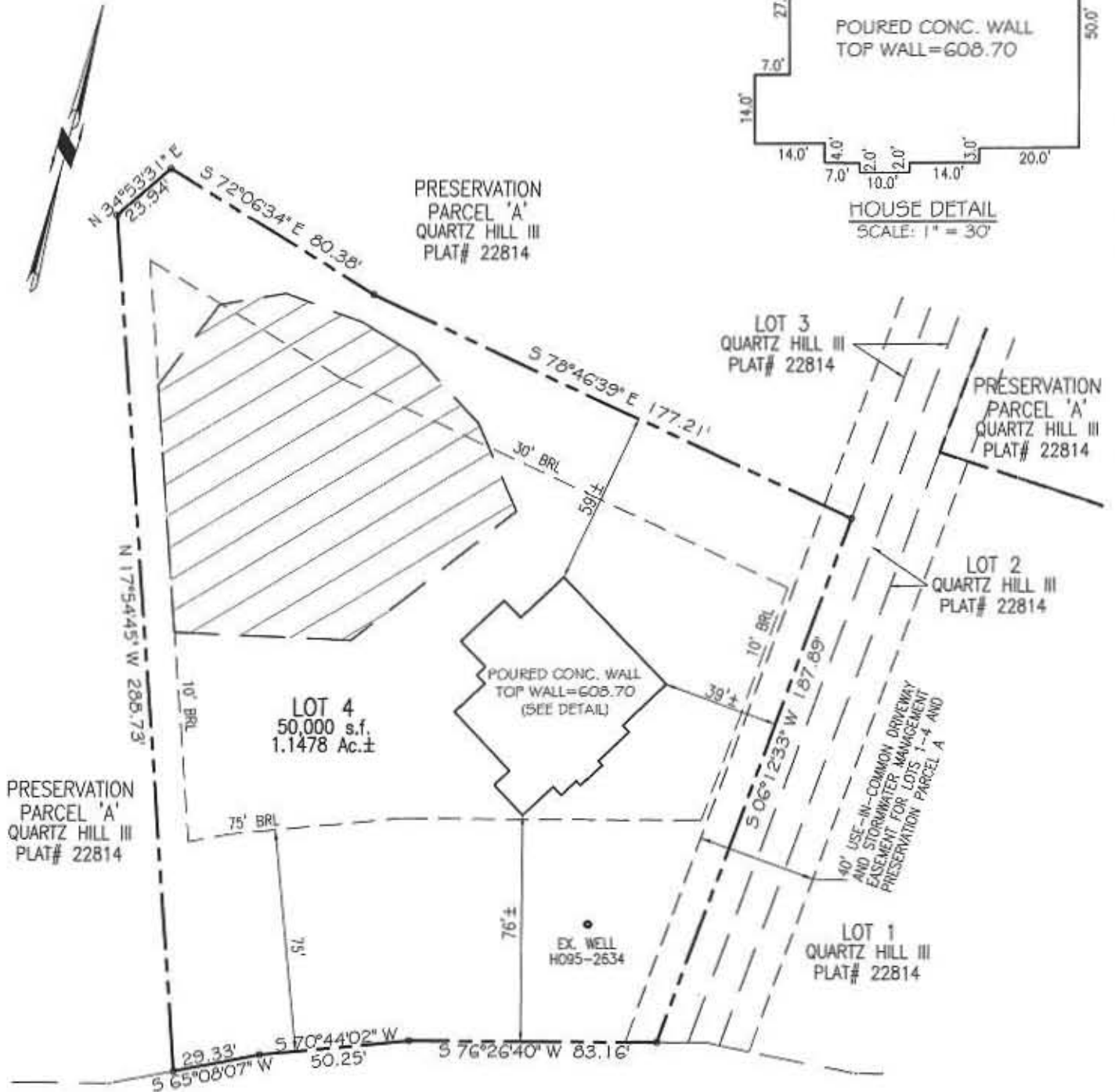
10/4/17

NOTES:

- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
- 2) BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
- 3) TOP OF WALL = 608.70



PRESERVATION  
PARCEL 'A'  
QUARTZ HILL III  
PLAT# 22814



OLD FREDERICK ROAD  
MD SHA PLAT 56161

*Wall Check  
OK  
RAE 9/25/17*

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21237, EXPIRATION DATE JANUARY 18, 2019 IN ACCORDANCE WITH COMAR 09.13.06.12



*James A. Fleming*  
For VanMar Associates, Inc. Date  
James Alden Fleming, Prof. Land Surveyor

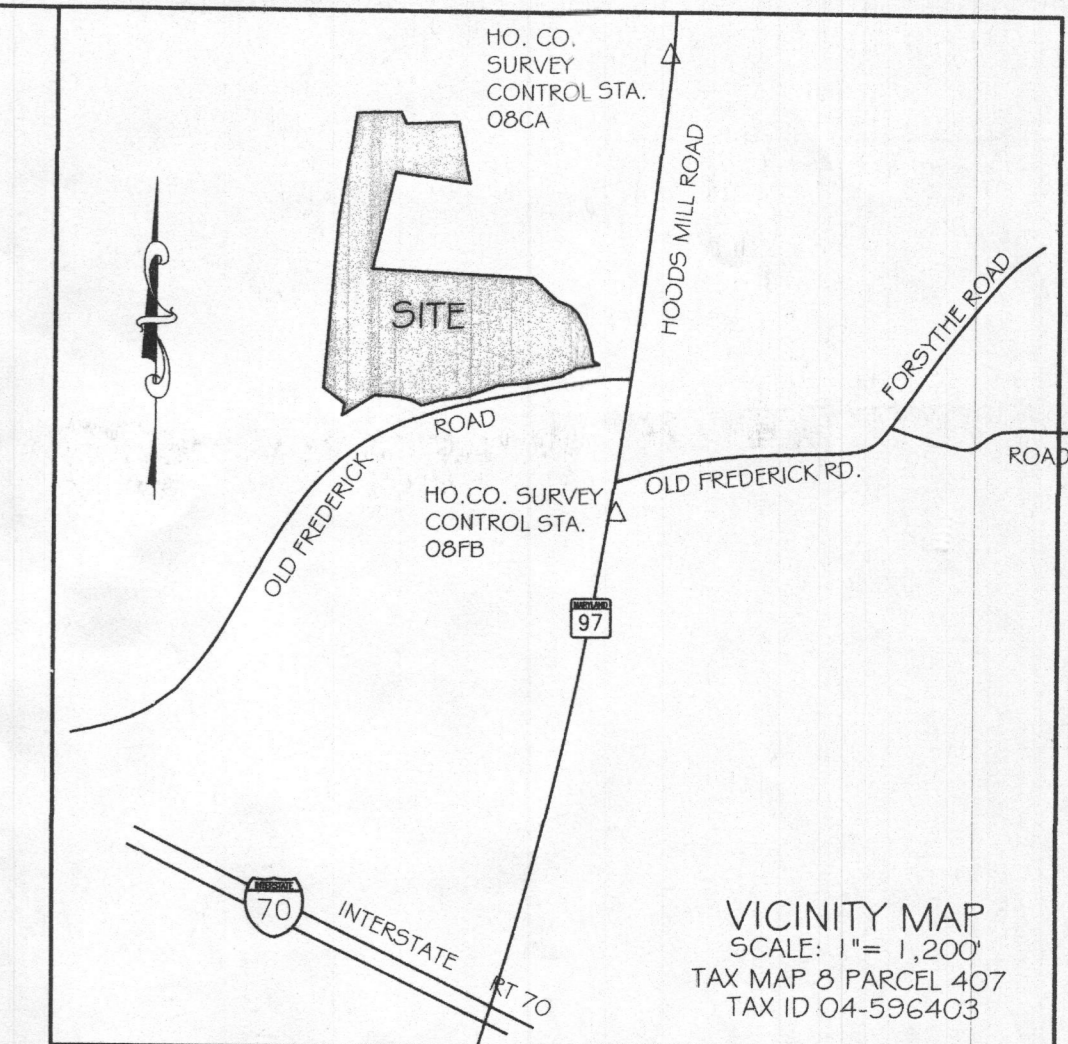
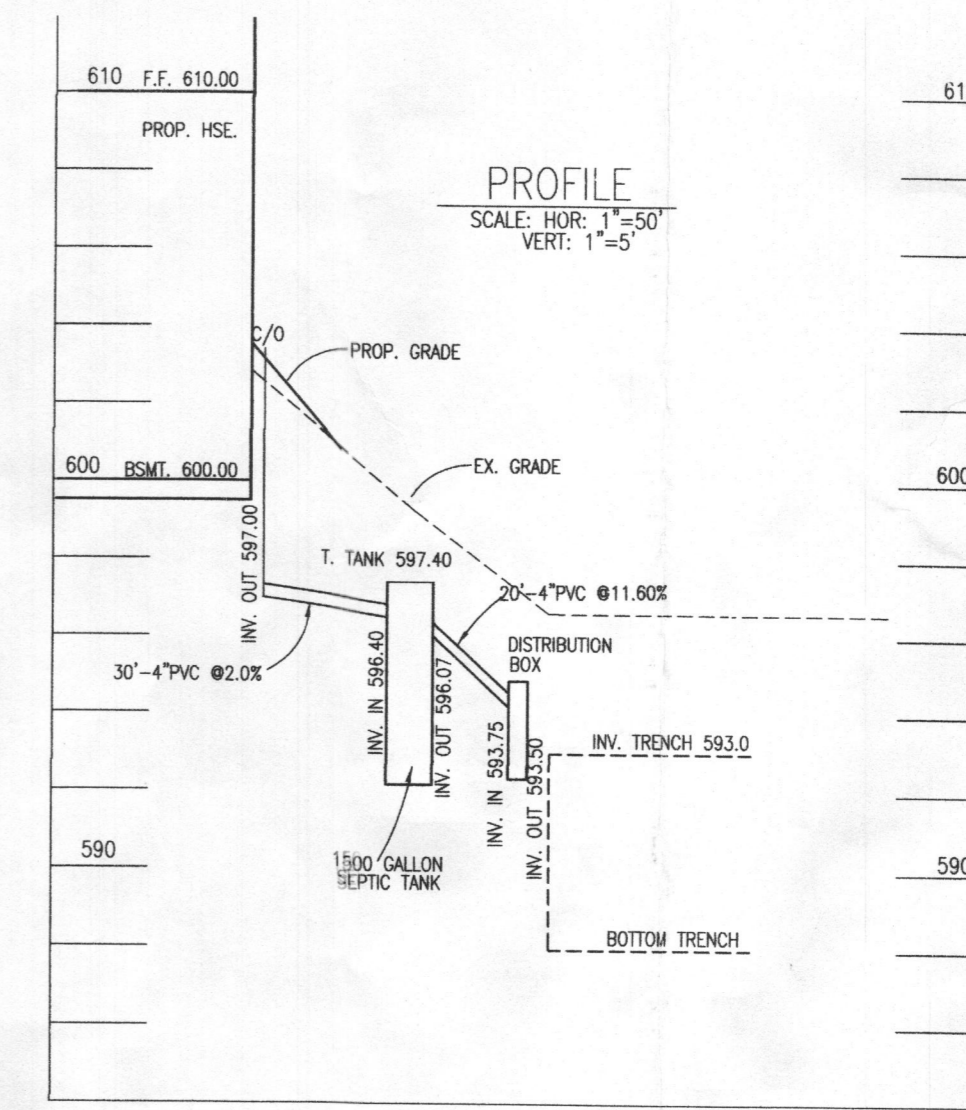
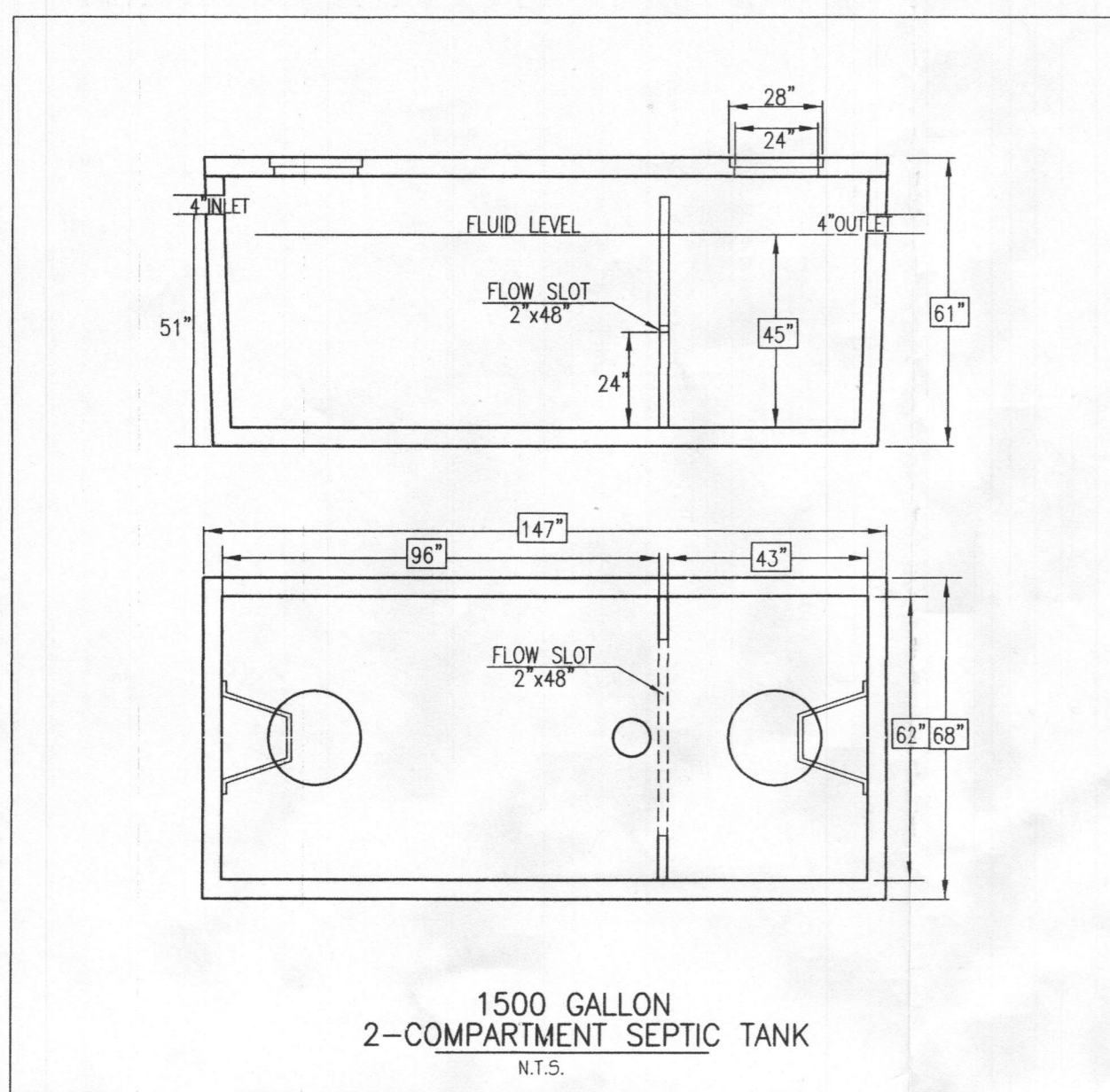
WALL CHECK DRAWING  
LOT 4  
QUARTZ HILL  
PLAT No. 22814  
14534 OLD FREDERICK ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' SEPTEMBER, 2017

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.



**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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REFERENCE	JOB NO.
PLAT NO. 22814	B6-5595



- GENERAL NOTES:**
- TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
  - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
  - ZONING DISTRICT: RC-DEO
  - LIMIT OF DISTURBANCE (LOD) = 21,900 SQ.FT.
  - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
  - STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY N-2 NON-ROOFTOP DISCONNECTION AND M-3 LANDSCAPE INFILTRATION.

**SEPTIC SYSTEM TRENCH DESIGN**

INITIAL NUMBER OF BEDROOMS = 5  
 APPLICATION RATE = 1.2 GPD / sq.ft.  
 DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD  
 750 GPD / 1.2 GPD/sq.ft. = 625 sq.ft.  
 625 sq.ft. / 3 ft. WIDE TRENCH = 208 LF TRENCH  
 208 LF TRENCH X 0.50 REDUCTION CREDIT = 104 LF TRENCH  
 TRENCH 1-2 (T1-T2) EX. GRD=597.0 -INV. TRENCH=593.0 -B. TRENCH=589.0

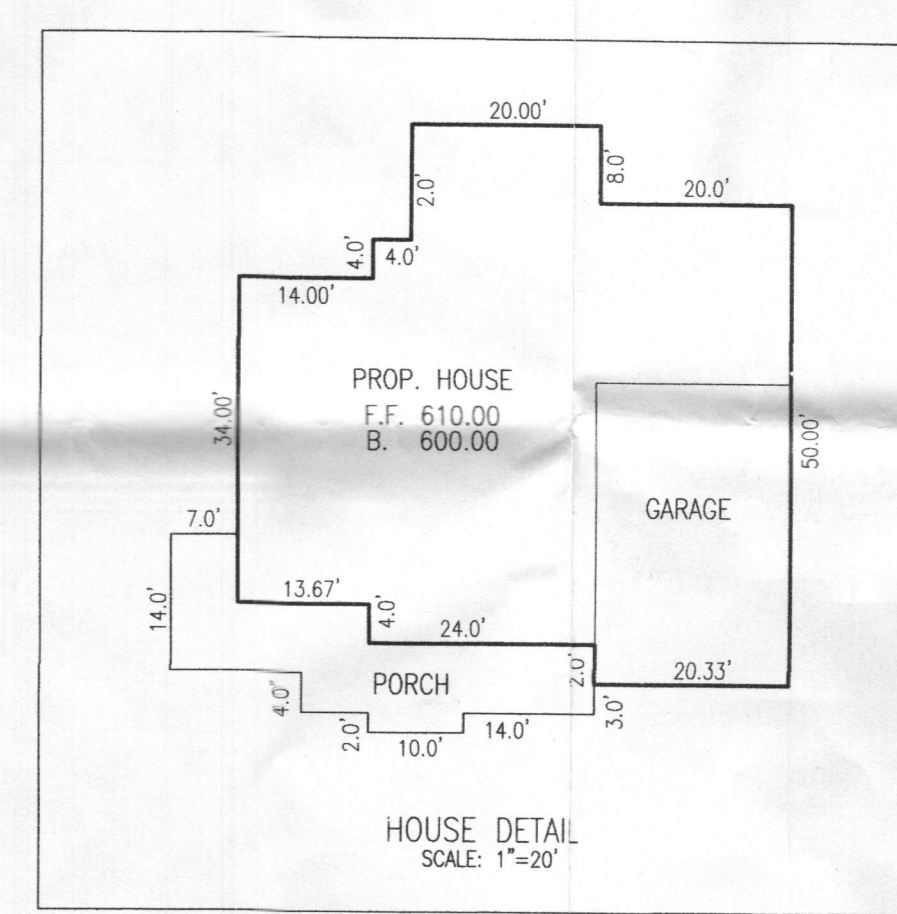
**1st REPLACEMENT**

APPLICATION RATE = 1.2 GPD / sq.ft.  
 DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD  
 750 GPD / 1.2 GPD/sq.ft. = 625 sq.ft.  
 625 sq.ft. / 3 ft. WIDE TRENCH = 208 LF TRENCH  
 208 LF TRENCH X 0.50 REDUCTION CREDIT = 104 LF TRENCH  
 TRENCH 1-2 EX. GRD=595.0 -INV. TRENCH=591.0 -B. TRENCH=587.0

**2nd REPLACEMENT**

APPLICATION RATE = 1.2 GPD / sq.ft.  
 DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD  
 750 GPD / 1.2 GPD/sq.ft. = 625 sq.ft.  
 625 sq.ft. / 3 ft. WIDE TRENCH = 208 LF TRENCH  
 208 LF TRENCH X 0.625 REDUCTION CREDIT = 130 LF TRENCH  
 TRENCH 1-2 EX. GRD=593.0 -INV. TRENCH=589.0 -B. TRENCH=585.0  
 TRENCH 3-4 EX. GRD=591.0 -INV. TRENCH=587.0 -B. TRENCH=583.0

- SITE PLAN NOTES:**
- ANY CHANGE 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.
  - MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
  - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - THE WELL (TAG #HO-95-2634) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
  - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



Approved Septic System Plan  
 Howard County Health Department  
 1520-gal Septic Tank and  
 Distribution System for 5 Bedroom SFD

*Signature* 7/28/2017  
 B17002436 Date

APPROVED  
 HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

\_\_\_\_\_  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

\_\_\_\_\_  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 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. 18417, Expiration Date: 8-18-17.

DATE	REVISIONS
7/11/17	HO CO HEALTH DEPT.

ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
 14534 OLD FREDERICK ROAD  
 LOT 4  
**QUARTZ HILL III**  
 PLAT No. 22813-228125

14534 OLD FREDERICK ROAD  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' JUNE 2017

**VANMAR ASSOCIATES, INC.**  
 Engineers Surveyors Planners  
 310 South Main Street Mount Airy, Maryland 21771  
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 Fax (301) 831-5603 ©Copyright, Latest Date Shown

OWNER / DEVELOPER:  
 CATONSVILLE HOMES  
 11175 STRATFIELD CT.  
 MARRIOTTVILLE, MD 21104  
 410-442-2211

