

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: 9/1/20 **ONSITE SEWAGE DISPOSAL SYSTEM** P 567958
 APPROVAL DATE: 11/7/2020 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 14528 Old Frederick Road
 SUBDIVISION: Quartz Hill iii LOT: A TAX ID: 04-370422
 CONTRACTOR: WTC CONTRACTORS, INC. EMAIL: _____
 CONTRACTOR ADDRESS: 3033 SALEM BOTTOM ROAD, WESTMINSTER, MD 21157 PHONE: (410)875-9771
 PROPERTY OWNER: CATONSVILLE HOMES LLC EMAIL: pwalter@catonsvillehomes.com
 OWNER ADDRESS: 11175 STRATFIELD COURT, MARIOTTSVILLE, MD 21104 PHONE: (410)442-2215
 SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: TBD
 PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

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

TRENCHES:	LINEAR FEET REQUIRED: <u>87</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0</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: R BRICKER ISSUE DATE: 9/29/20 EXPIRATION DATE: 9/1/21

- 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

* see attached

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3' 2.5 8

NUMBER OF TRENCHES 2

TOTAL LENGTH 90'

ABSORPTION AREA 270 sq ft + sidewalk

DISTRIBUTION BOX LEVEL yes

DISTRIBUTION BOX BAFFLE yes

DISTRIBUTION BOX PORT yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER BABYLON

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH 1.5'

BAFFLES front + back

BAFFLE FILTER -

MANHOLE LOC front/back

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 04/12/2020

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:

11/12/2020 CONFIRMED CONTOUR OF 2x44' TRENCHES. OK TO START (X)

INSTALLATION: 11/16/2020 INSTALLED SHC AND SL. SL IS BEDDED IN BUILT UP GRAVEL. TANK SET. (P) 11/17/2020 Levelled d-box. 2x45' trenches installed and connected to d-box. (SD)

FINAL INSPECTOR

Susan Thomas

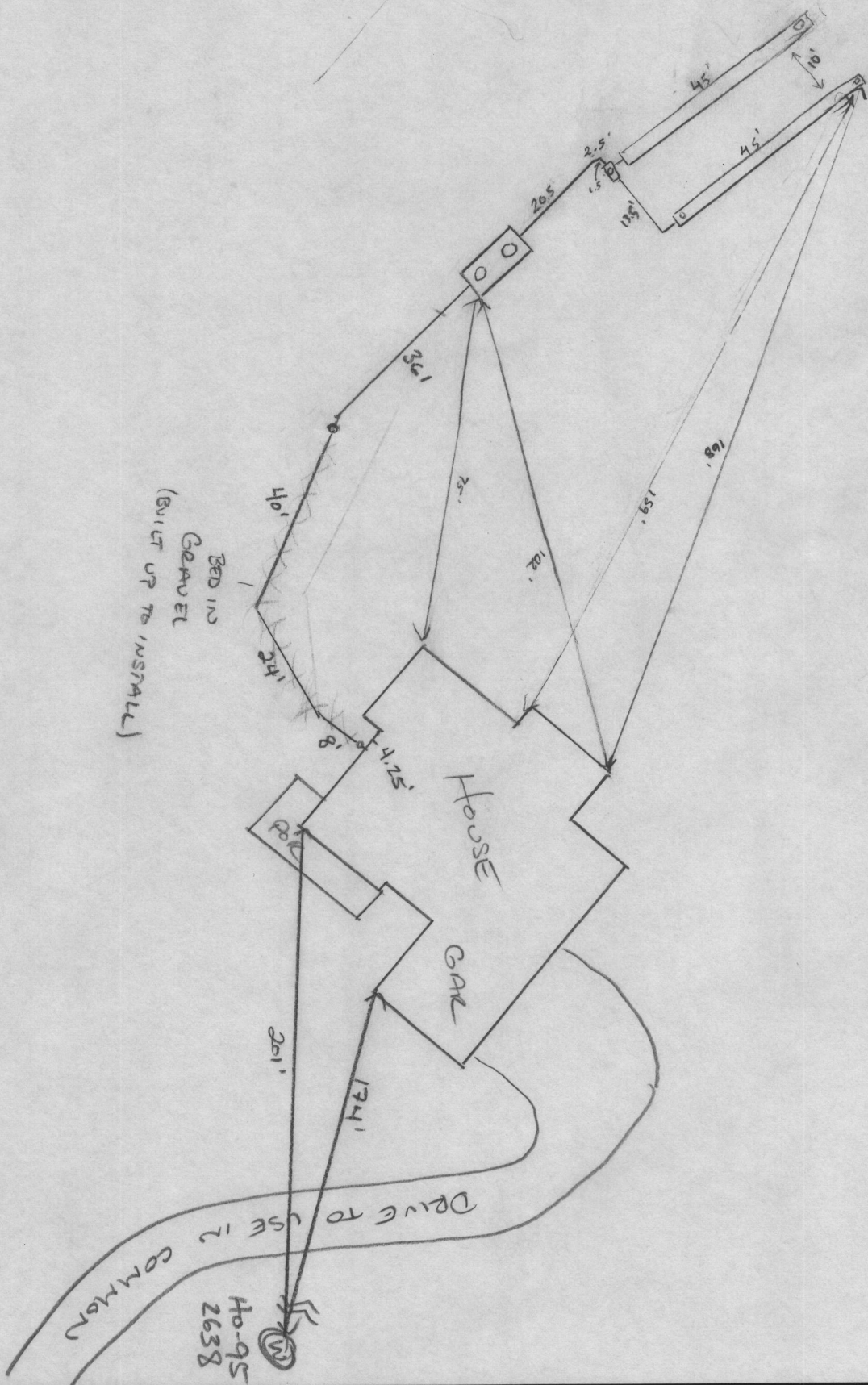
DATE OF APPROVAL

11/17/2020

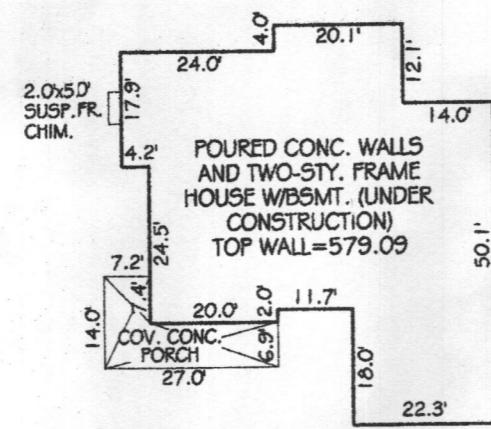
14528

OLD FREDERICK ROAD

(PAR A)



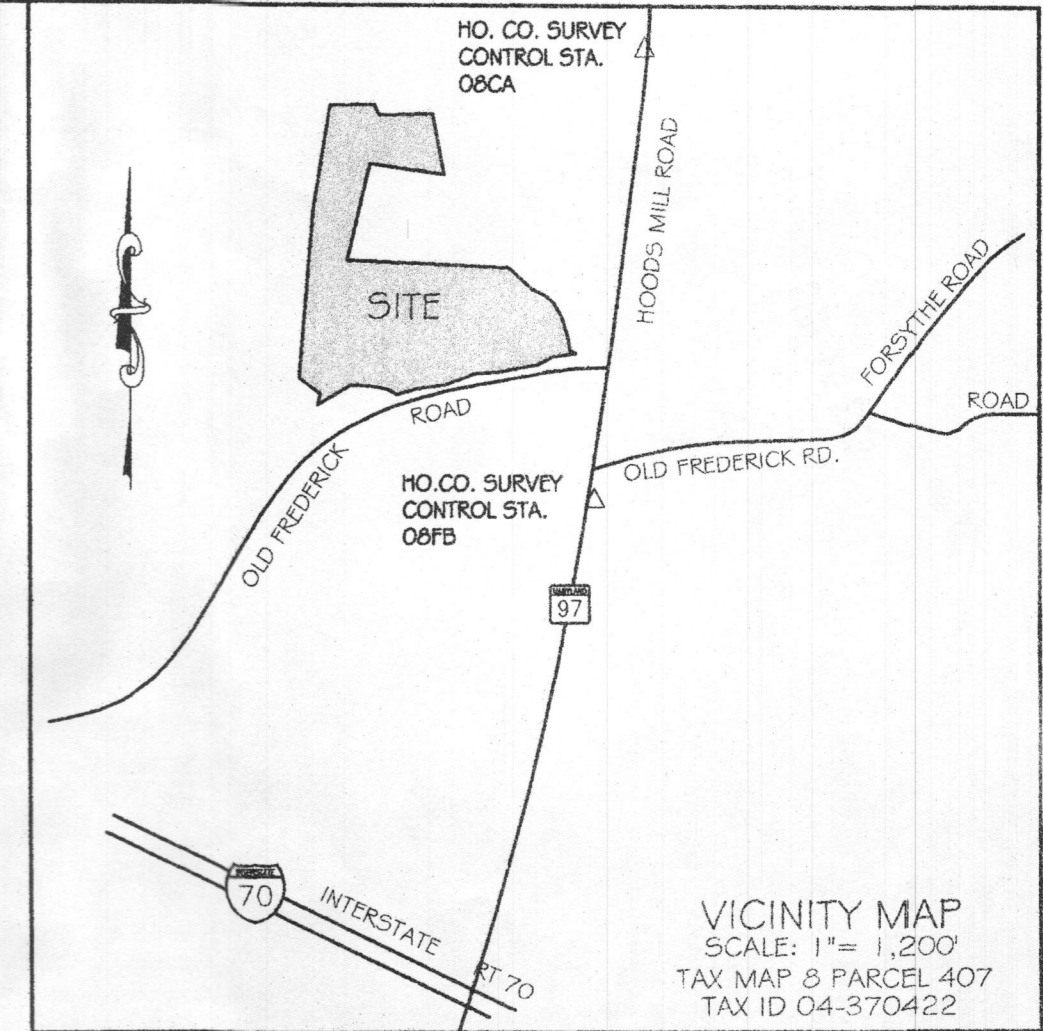
NOT TO SCALE



HOUSE DETAIL
SCALE: 1" = 30'

BOUNDARY OUTLINE TABLE

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	S 87°17'04"	W 980.76'	L39	S 29°53'33"	E 168.73'
L2	N 84°06'28"	W 46.78'	L40	N 80°14'13"	E 167.71'
L3	N 48°53'46"	W 40.43'	L41	N 02°32'35"	E 85.46'
L4	N 48°54'12"	W 60.69'	L42	S 86°31'40"	E 31.00'
L5	N 40°43'55"	W 52.20'	L43	N 57°17'36"	E 80.08'
L6	N 62°17'54"	W 107.58'	L44	N 35°11'01"	W 141.53'
L7	N 46°27'01"	W 69.55'	L45	N 36°21'08"	W 277.16'
L8	N 34°48'13"	W 69.11'	L46	S 65°08'05"	E 35.22'
L9	N 22°18'04"	W 68.48'	L47	S 61°34'04"	E 67.27'
L10	N 14°06'36"	W 112.32'	L48	S 79°57'56"	E 74.96'
L11	N 07°50'41"	W 50.25'	L49	S 88°31'08"	E 36.43'
L12	N 53°41'51"	W 53.68'	L50	S 87°20'36"	E 60.13'
L13	N 86°44'11"	E 54.64'	L51	N 80°15'22"	E 58.32'
L14	N 78°01'44"	E 46.11'	L52	N 62°34'27"	E 57.80'
L15	N 76°26'39"	E 57.75'	L53	N 59°42'10"	E 57.55'
L16	N 54°38'37"	E 53.85'	L54	N 51°52'51"	E 57.83'
L17	N 65°08'07"	E 21.52'	L55	N 53°56'15"	E 58.81'
L18	S 23°16'43"	E 146.77'	L56	N 51°03'55"	E 56.56'
L19	S 85°36'40"	E 129.75'	L57	N 44°04'14"	E 29.04'
L20	S 06°12'33"	W 83.92'	L58	N 32°28'39"	E 29.08'
L21	S 71°02'50"	W 189.41'	L59	N 30°28'52"	E 58.49'
L22	S 37°36'20"	E 315.85'	L60	N 32°05'35"	E 56.14'
L23	N 64°46'55"	E 166.45'	L61	N 44°44'08"	E 53.73'
L24	N 89°46'11"	E 135.06'	L62	S 29°38'55"	W 221.93'
L25	N 19°50'47"	W 257.58'	L63	S 35°55'07"	W 60.70'
L26	S 88°11'10"	W 192.21'	L64	S 19°26'00"	W 59.28'
L27	N 06°12'33"	E 121.94'	L65	S 02°56'06"	W 27.12'
L28	S 78°46'39"	E 177.21'	L66	S 48°12'45"	E 187.34'
L29	S 72°06'34"	E 80.38'	L67	S 03°28'18"	W 989.53'
L30	N 34°53'31"	E 23.94'	L68	S 08°41'55"	W 616.98'
L31	N 17°54'45"	W 288.73'	L69	S 89°01'16"	W 273.57'
L32	S 65°08'07"	E 21.66'	L70	N 21°09'00"	W 56.27'
L33	N 76°26'42"	E 50.00'	L71	N 22°05'10"	W 23.70'
L34	N 65°08'03"	E 50.99'	L72	S 86°37'41"	W 329.30'
L35	N 82°09'20"	E 34.30'	L73	N 09°15'58"	W 168.82'
L36	S 07°24'34"	W 179.63'	L74	N 13°33'19"	W 100.00'
L37	S 03°01'10"	E 111.85'	L75	N 13°33'19"	W 76.69'
L38	S 87°00'31"	E 137.52'	L76	S 87°46'27"	E 438.65'
			L77	N 08°20'20"	E 616.57'

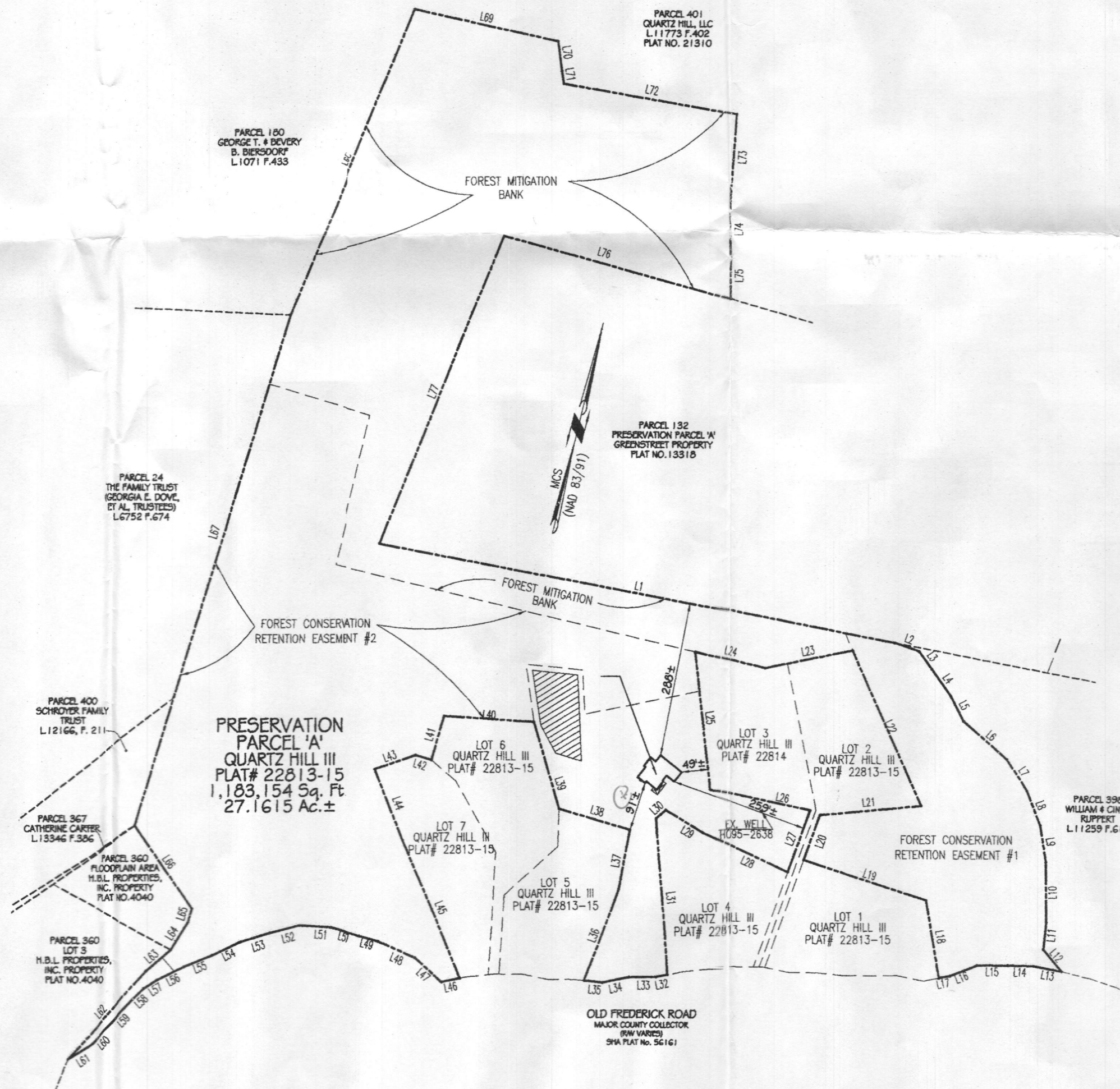


VICINITY MAP
SCALE: 1" = 1,200'
TAX MAP 8 PARCEL 407
TAX ID 04-370422

NOTES:

- FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
- BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
- TOP OF WALL = 579.09

APPROVED
09/29/2020



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

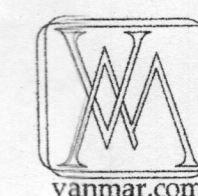
I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

Jeffery W. Elkins 9/15/2020
Date
For VanMar Associates, Inc.
Jeffery W. Elkins, Prof. Land Surveyor



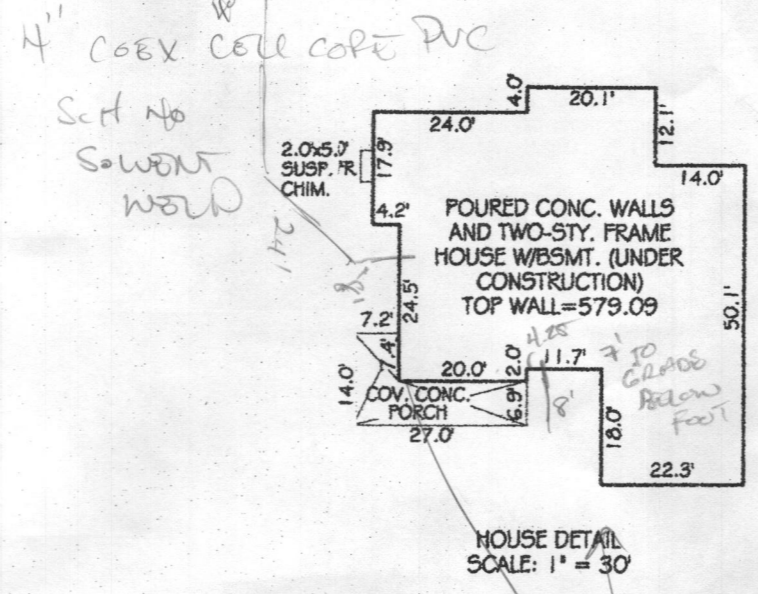
WALL CHECK DRAWING
14528 OLD FREDERICK ROAD
PRESERVATION PARCEL A
QUARTZ HILL III
PLAT No. 22813-22815

FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 200' SEPTEMBER, 2020



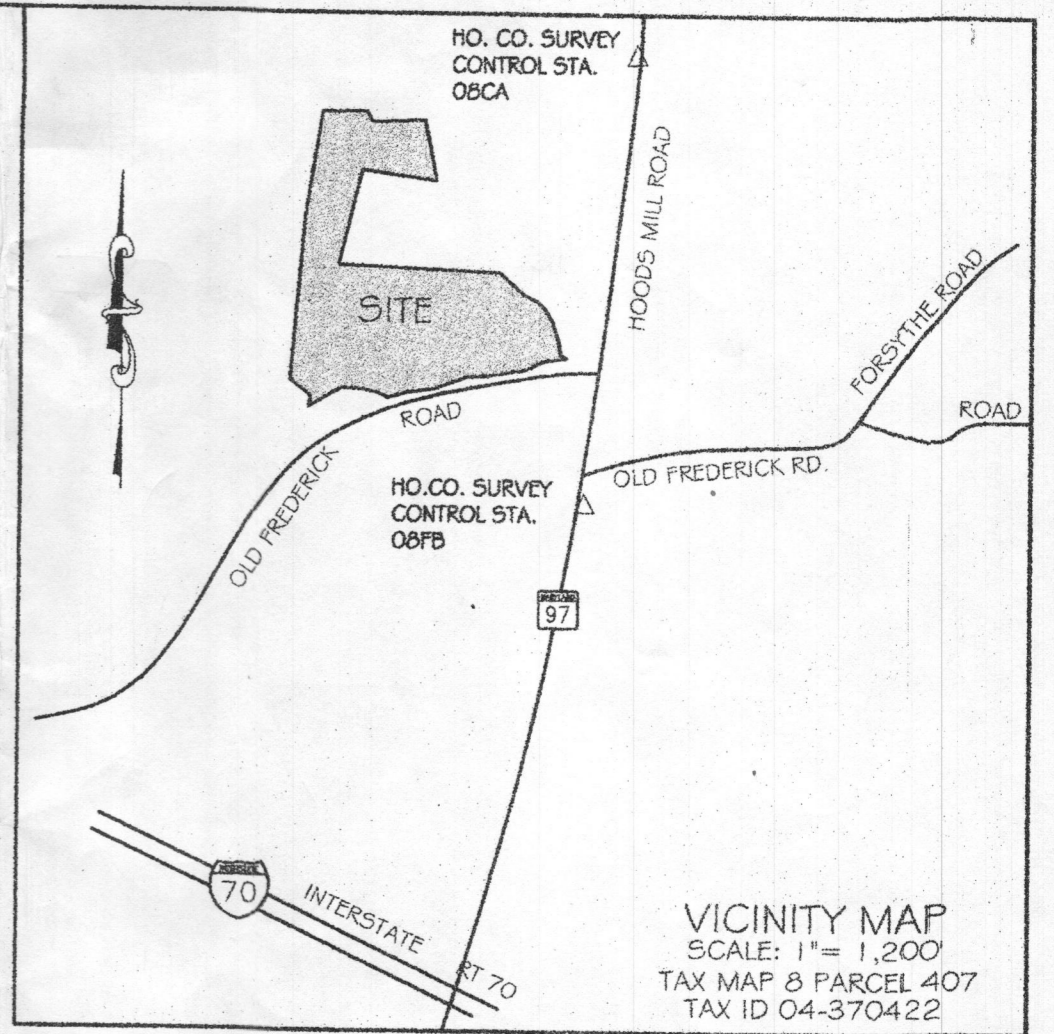
VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners

310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
Fax (301) 831-5603 © Copyright, Latest Date Shown



BOUNDARY OUTLINE TABLE

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	S 87°17'24" W	980.67	L39	S 29°53'33" E	168.73
L2	N 84°08'29" W	46.78	L40	N 80°14'13" E	167.71
L3	N 48°53'46" W	40.43	L41	N 02°32'35" E	85.46
L4	N 48°54'12" W	60.69	L42	S 86°31'40" E	31.00
L5	N 40°43'55" W	52.20	L43	N 57°17'36" E	80.08
L6	N 62°17'54" W	107.58	L44	N 35°11'01" W	141.53
L7	N 46°27'01" W	69.55	L45	N 36°21'08" W	277.16
L8	N 34°48'13" W	69.11	L46	N 65°08'05" E	35.22
L9	N 22°18'04" W	68.48	L47	S 61°34'04" E	67.27
L10	N 14°06'36" W	112.32	L48	S 79°57'56" E	174.96
L11	N 07°50'41" W	50.25	L49	S 88°31'08" E	136.43
L12	N 53°41'51" W	53.68	L50	S 87°20'36" E	60.13
L13	N 86°44'11" E	54.64	L51	N 80°15'22" E	58.32
L14	N 76°01'44" E	46.11	L52	N 62°34'27" E	57.80
L15	N 76°26'39" E	57.75	L53	N 59°42'10" E	57.55
L16	N 54°38'37" E	33.95	L54	N 51°52'51" E	57.83
L17	N 65°08'07" E	21.52	L55	N 53°56'15" E	56.81
L18	S 23°16'43" E	146.77	L56	N 51°03'55" E	56.56
L19	S 85°36'40" E	239.75	L57	N 44°04'14" E	25.04
L20	S 06°12'33" W	88.92	L58	N 32°28'39" E	29.08
L21	S 71°02'50" W	189.41	L59	N 30°20'52" E	58.49
L22	S 37°36'20" E	315.85	L60	N 32°05'35" E	56.14
L23	N 64°46'55" E	166.45	L61	N 44°44'08" E	53.73
L24	N 89°46'11" E	135.06	L62	S 29°38'55" W	221.93
L25	N 19°50'47" W	257.58	L63	S 35°55'07" W	60.70
L26	S 88°11'10" W	192.21	L64	S 19°26'00" W	59.28
L27	N 06°12'33" E	121.94	L65	S 02°56'06" W	27.12
L28	S 78°46'39" E	177.21	L66	S 48°12'45" E	187.34
L29	S 72°06'34" E	80.38	L67	S 03°28'18" W	989.53
L30	S 34°53'31" E	23.94	L68	S 08°41'55" W	616.98
L31	N 17°54'45" W	288.73	L69	S 89°01'16" W	273.57
L32	N 65°08'07" E	21.66	L70	N 21°09'00" W	56.27
L33	N 76°26'42" E	50.00	L71	N 22°05'10" W	23.70
L34	N 65°08'03" E	50.99	L72	S 86°37'41" W	329.30
L35	N 82°09'20" E	34.30	L73	N 09°15'58" W	168.82
L36	S 07°24'34" W	179.63	L74	N 13°33'19" W	100.00
L37	S 03°01'10" E	111.85	L75	N 13°33'19" W	76.69
L38	S 87°00'31" E	137.52	L76	S 87°46'27" E	438.65
			L77	N 08°20'20" E	616.57



- NOTES:
- FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
 - BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
 - TOP OF WALL = 579.09

Failed Wall Check



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

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.

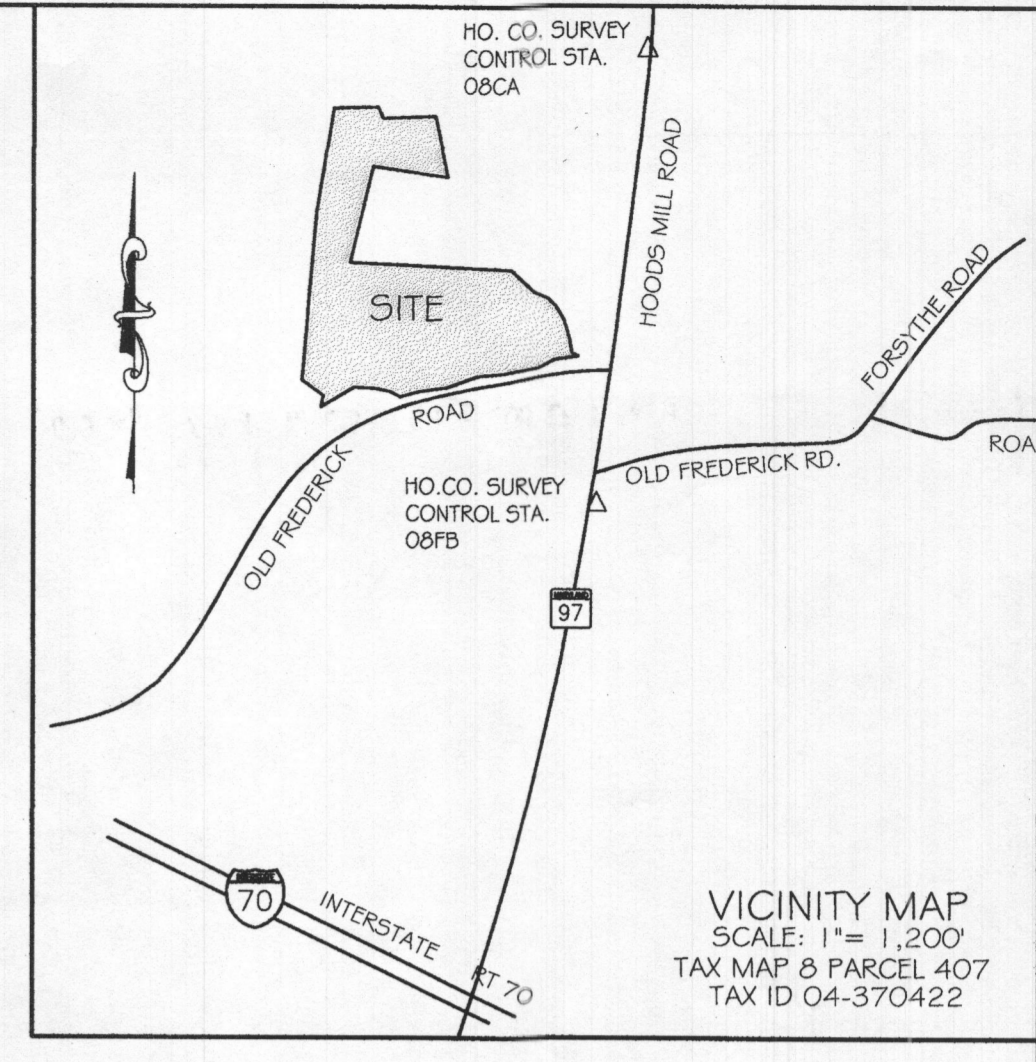
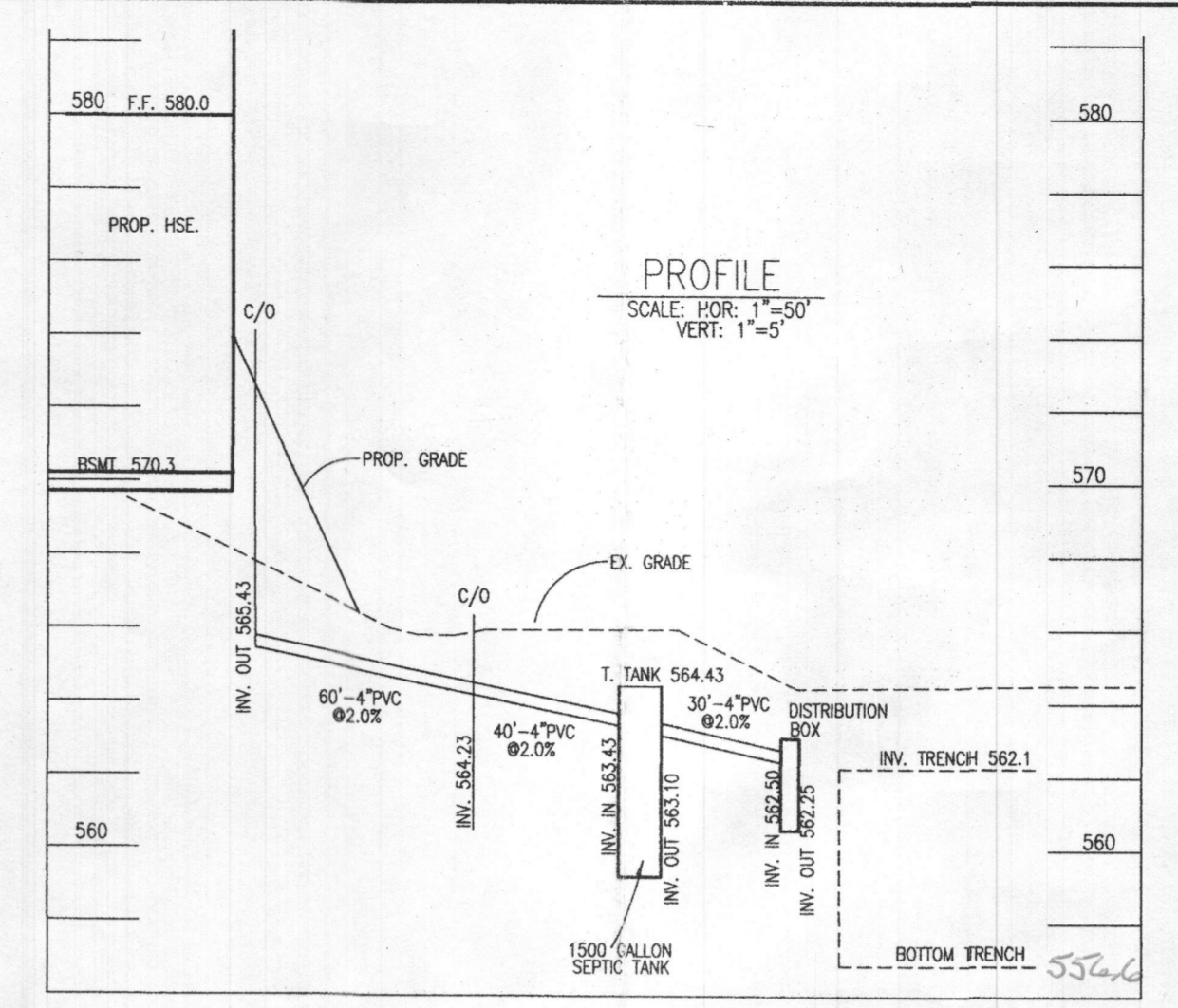
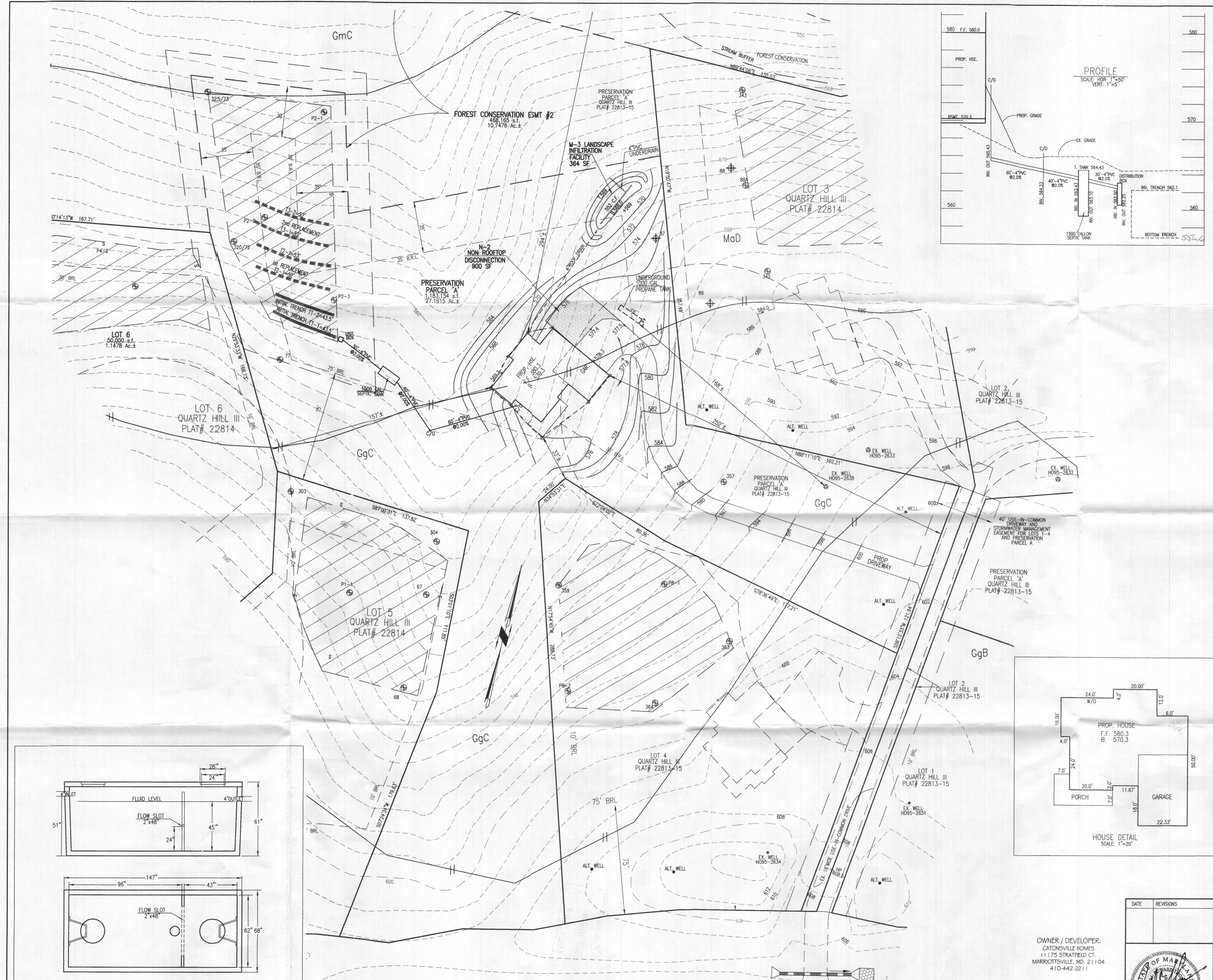
Jeffery W. Elkins 7/24/2020
Date

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



WALL CHECK DRAWING
14528 OLD FREDERICK ROAD
PRESERVATION PARCEL A
QUARTZ HILL III
PLAT No. 22813-22815
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 200' JULY, 2020

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
Fax (301) 831-5603 ©Copyright, Latest Date Shown



- GENERAL NOTES:**
- TOPOGRAPHY & PLANNING 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-DED
 - LIMIT OF DISTURBANCE (LOD) = 29,400 SQ.FT.
 - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
 - STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY M-8 GRASS SWALE AND M-3 LANDSCAPE INFILTRATION.

SEPTIC SYSTEM TRENCH

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 0.42 REDUCTION CREDIT = 87 LF TRENCH	
TRENCH T-1 EX. GRD=564.6 - INV. TRENCH=562.1 -B. TRENCH=566.6	
TRENCH T-2 EX. GRD=562.7 - INV. TRENCH=560.2 -B. TRENCH=564.7	

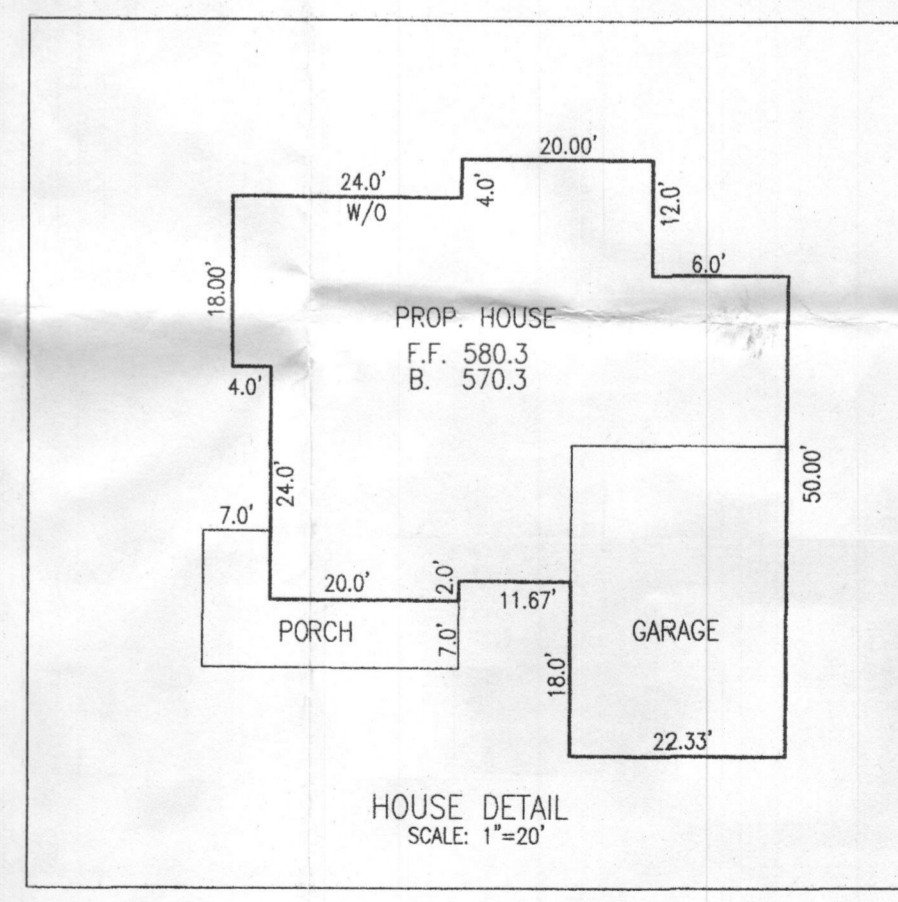
1st REPLACEMENT

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 2-1 EX. GRD=560.5 - INV. TRENCH=558.0 -B. TRENCH=552.5	
TRENCH 2-2 EX. GRD=558.0 - INV. TRENCH=555.5 -B. TRENCH=550.0	

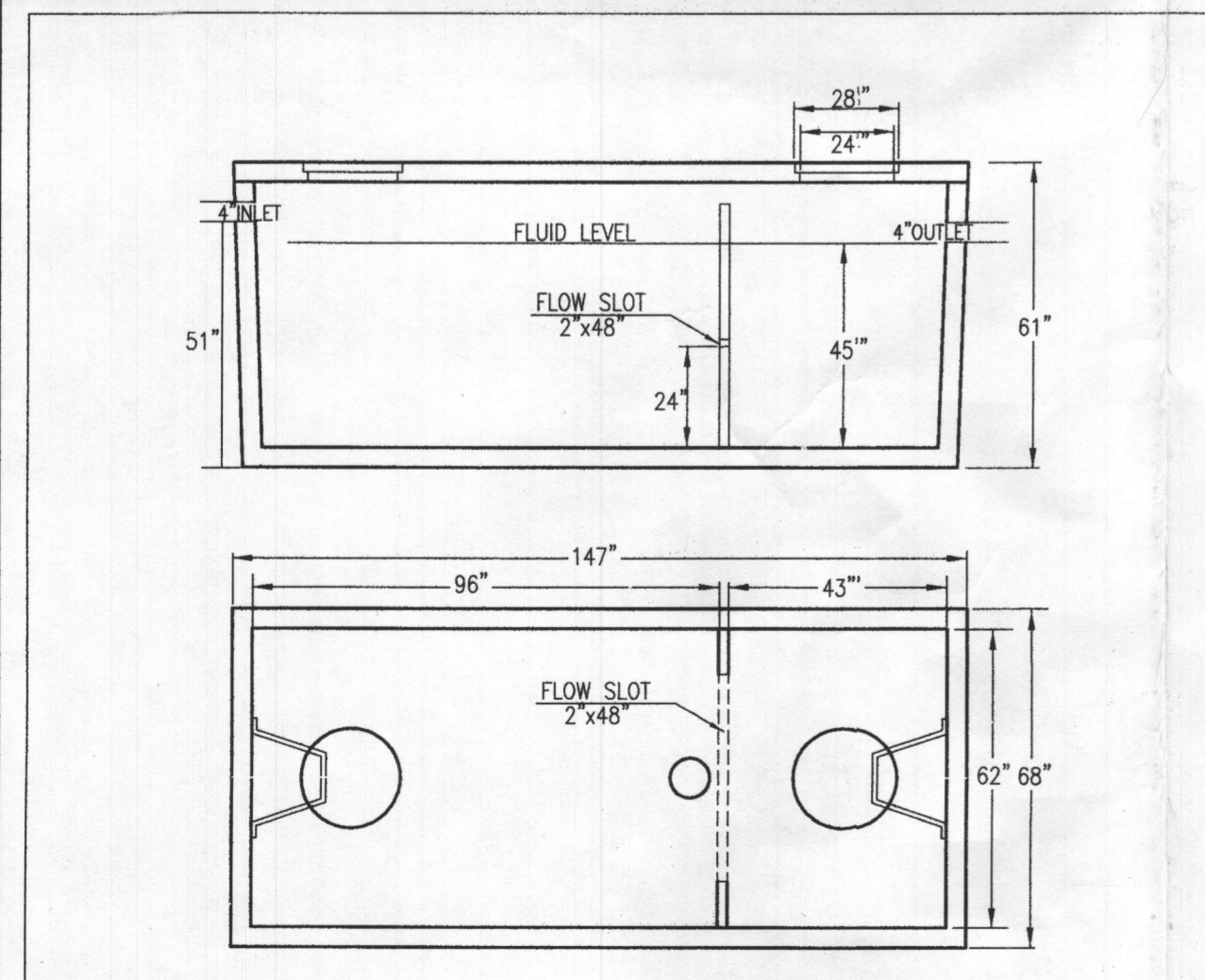
2nd REPLACEMENT

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 0.50 REDUCTION CREDIT = 104 LF TRENCH	
TRENCH 3-1 EX. GRD=556.0 - INV. TRENCH=553.5 -B. TRENCH=548.0	
TRENCH 3-2 EX. GRD=554.0 - INV. TRENCH=551.5 -B. TRENCH=546.0	

- 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-95-2638) 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
 1500-gal Septic Tank
 To Gravity Drain Field
 for 5-bedroom SFD
 F. Bialk
 Signature 3/12/2020
 Date



ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
 14528 OLD FREDERICK ROAD
 PRESERVATION PARCEL A
QUARTZ HILL III
 PLAT No. 22813-22815
 14522 OLD FREDERICK ROAD
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' JANUARY, 2020

OWNER / DEVELOPER:
 CATONSVILLE HOMES
 1175 STRATFIELD CT.
 MARRIOTTSVILLE, MD. 21104
 410-442-2211

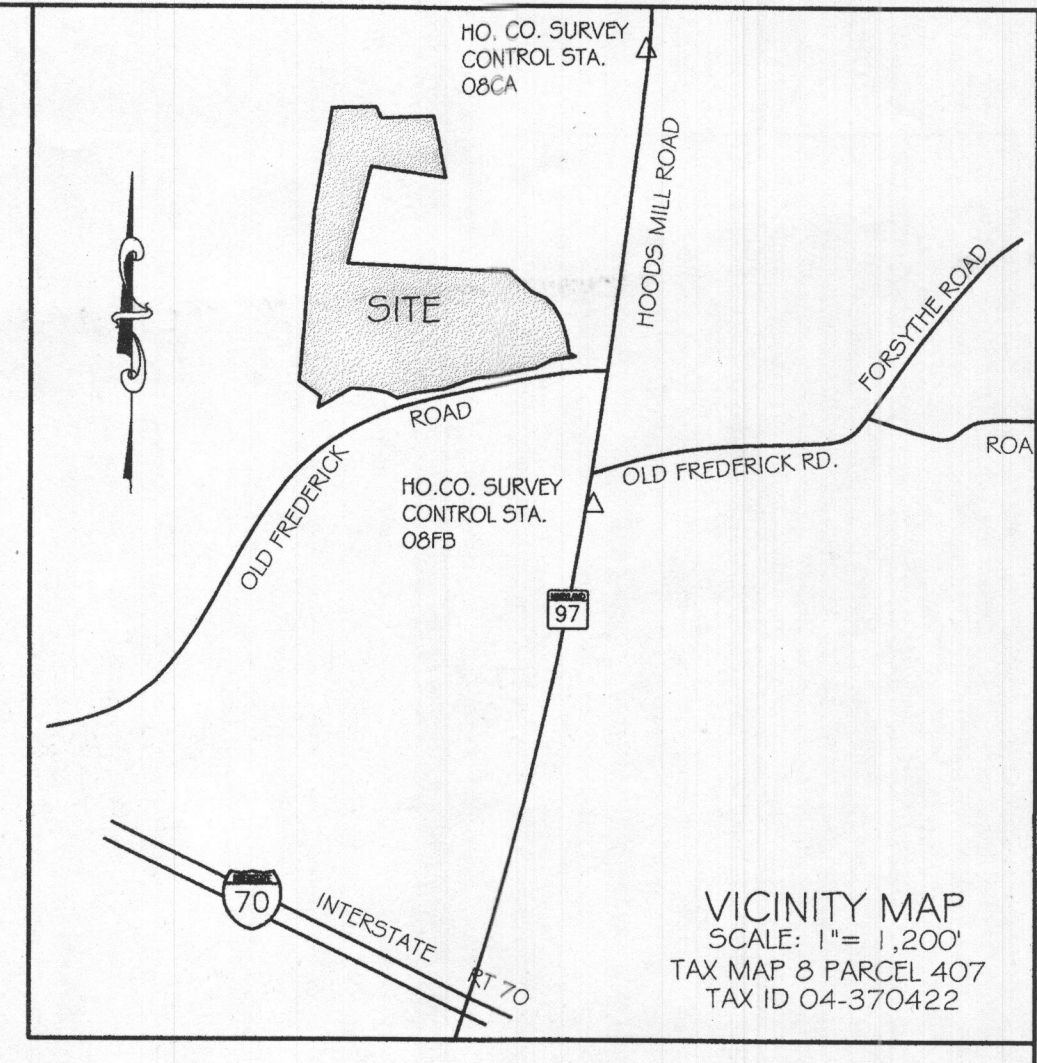
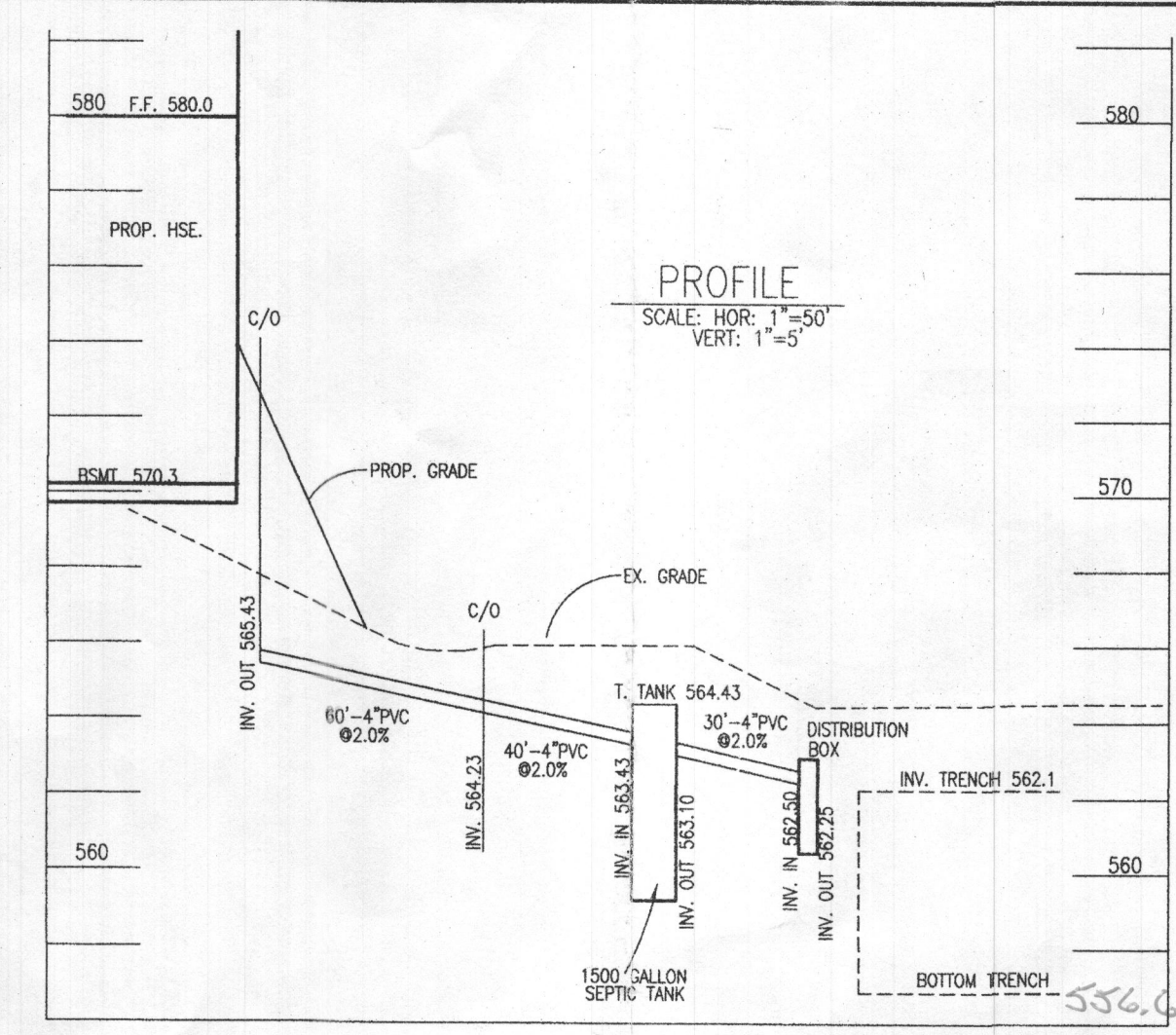
VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 548-2751
 Fax (301) 831-5603 © Copyright, Latest Date Shown

DATE REVISIONS

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: 9-18-21.

SCALE: 1" = 20'

SHEET 1 OF 1



- GENERAL NOTES:**
1. TOPOGRAPHY & PLANNING 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.
 2. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
 3. ZONING DISTRICT: RC-DED
 4. LIMIT OF DISTURBANCE (LOD) = 29,400 SQ.FT.
 5. THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
 6. STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY M-8 GRASS SWALE 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
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 TRENCH T-1 EX. GRD=564.6 -INV. TRENCH=562.1 -B. TRENCH=566.6
 TRENCH T-2 EX. GRD=562.7 -INV. TRENCH=560.2 -B. TRENCH=564.7

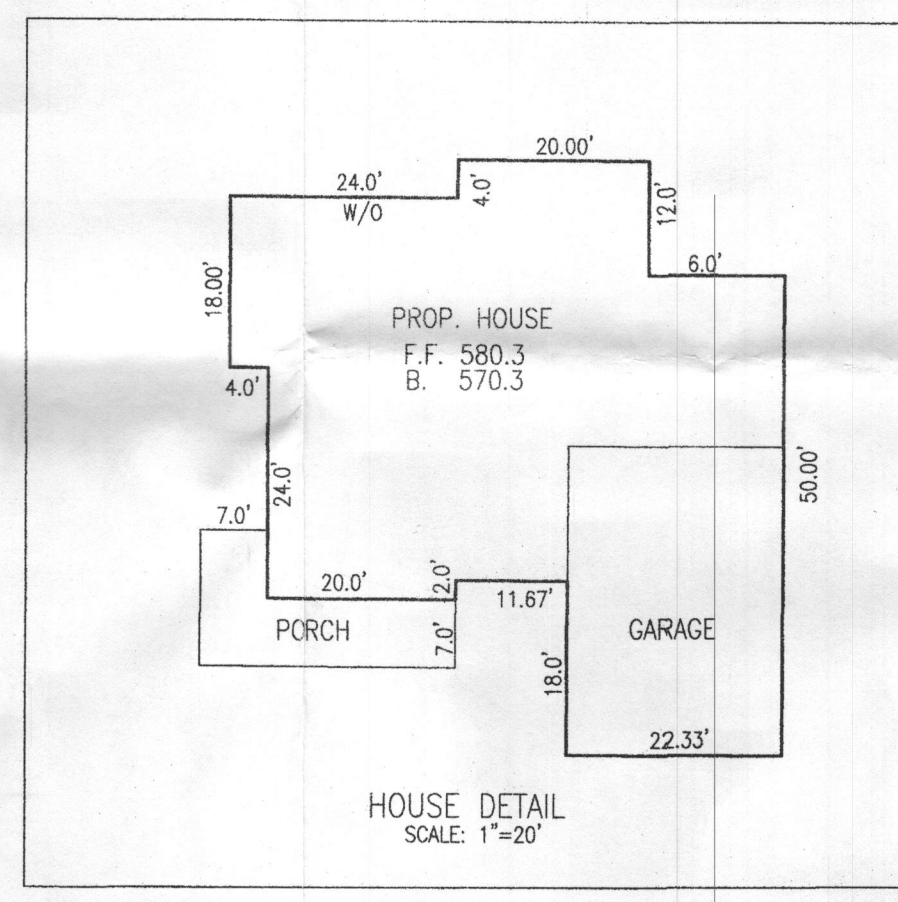
1st REPLACEMENT

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 2-1 EX. GRD=560.5 -INV. TRENCH=558.0 -B. TRENCH=552.5
 TRENCH 2-2 EX. GRD=558.0 -INV. TRENCH=555.5 -B. TRENCH=550.0

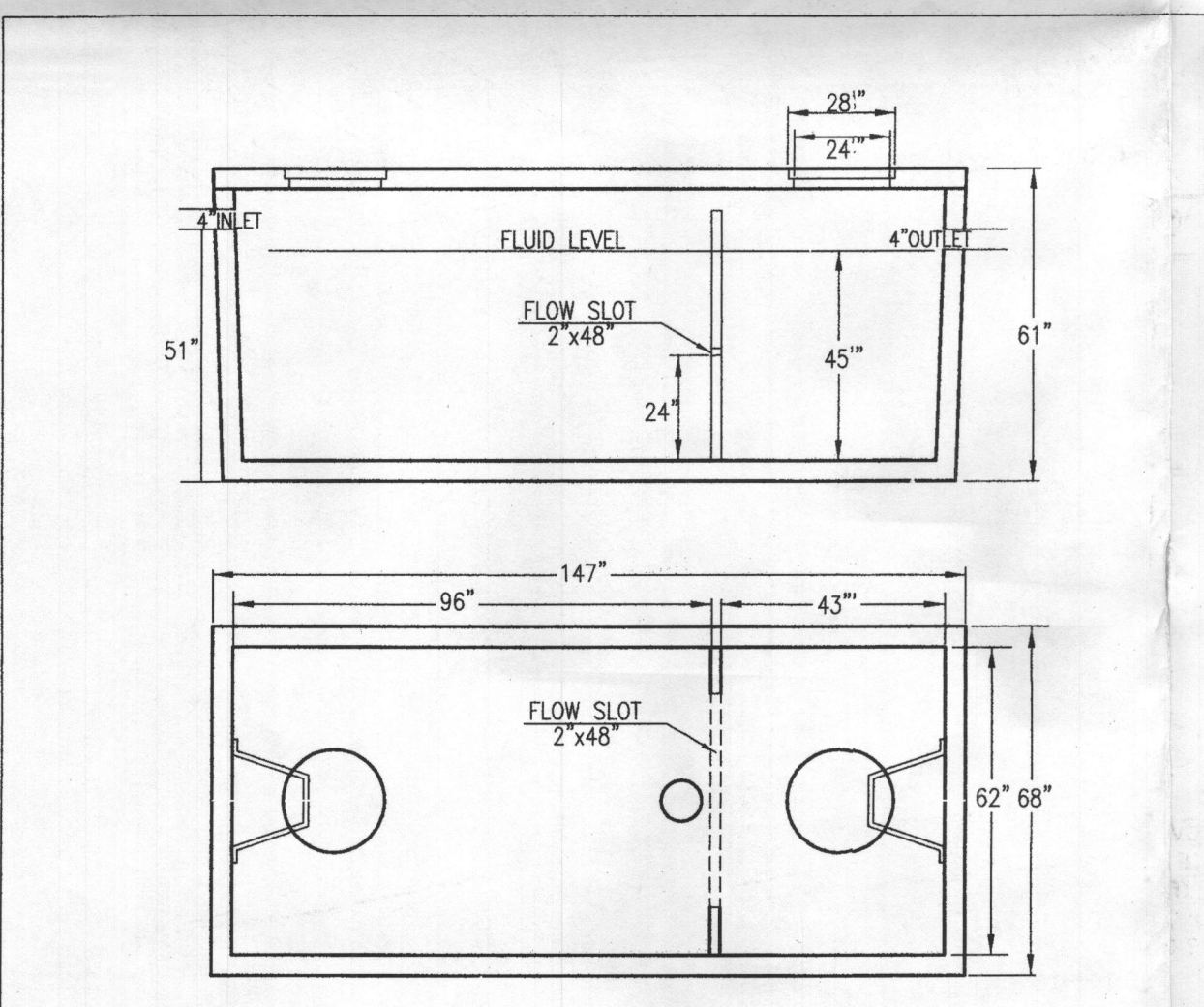
2nd REPLACEMENT

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 0.50 REDUCTION CREDIT = 104 LF TRENCH
 TRENCH 3-1 EX. GRD=556.0 -INV. TRENCH=553.5 -B. TRENCH=548.0
 TRENCH 3-2 EX. GRD=554.0 -INV. TRENCH=551.5 -B. TRENCH=546.0

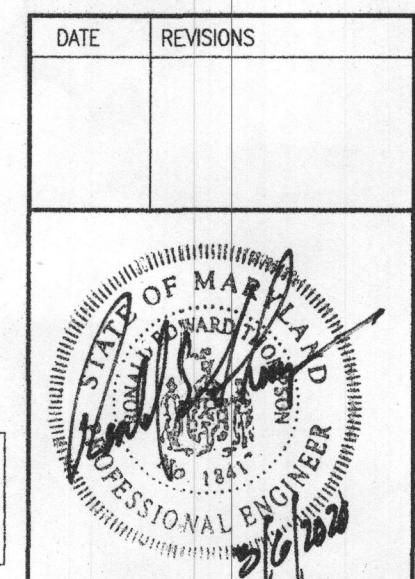
- SITE PLAN NOTES:**
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 2. MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
 3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 4. THE WELL (TAG #HO-95-2638) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 5. 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
 1500-gallon Septic Tank
 to Gravity Drainfield
 for 5-bedroom SFD
 Signature: [Signature] Date: 3/12/2020



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



ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
 14528 OLD FREDERICK ROAD
 PRESERVATION PARCEL A
QUARTZ HILL III
 PLAT NO. 22813-22815
 14522 OLD FREDERICK ROAD
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' JANUARY, 2020

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

SHEET 1 OF 1

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: 9-18-21.