

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: 9/6/22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 572163

APPROVAL DATE: 10/07/2022 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 1915 Log House Court Mt Airy, MD 21771

SUBDIVISION: Florence Estates Sec. 2 LOT: 5 TAX ID: 04343433

CONTRACTOR: Scott Carroll Beckhoe EMAIL: ScottBeckhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Selcon Parkway Rd, Westminster, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: Helen W. Boyer Trustee EMAIL: _____

OWNER ADDRESS: 25915 Woodfield Rd. Damascus, MD 20872 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault

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

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

TRENCHES:	LINEAR FEET REQUIRED: <u>154</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</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 Freemon ISSUE DATE: 09/06/2022 EXPIRATION DATE: 09/06/2025

- 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 _____
- 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 ATT

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 154 F		
ABSORPTION AREA 462 SF + 4'		
DISTRIBUTION BOX LEVEL SPEED		
DISTRIBUTION BOX BAFFLE CONC		
DISTRIBUTION BOX PORT YES		

SIDE WALL

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	YES
TANK LID DEPTH	~2'
BAFFLES	YES
BAFFLE FILTER	YES NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	07/25/2022

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:

09/30/2022 Laid out 2x 77' TRS ON CONTOUR; OK TO START. P

HURRICANE IAN 5 DAYS OF RAIN

INSTALLATION: 10/06/2022 SHG, SL, TANK AND UPPER TRENCH INSTALLED. P
10/07/2022 LOWER TRENCH COMPLETE - D BOX LEVELED W/ SPEED LEVELS. P

FINAL INSPECTOR

[Handwritten Signature]

DATE OF APPROVAL

10/07/2022

SaniFlow

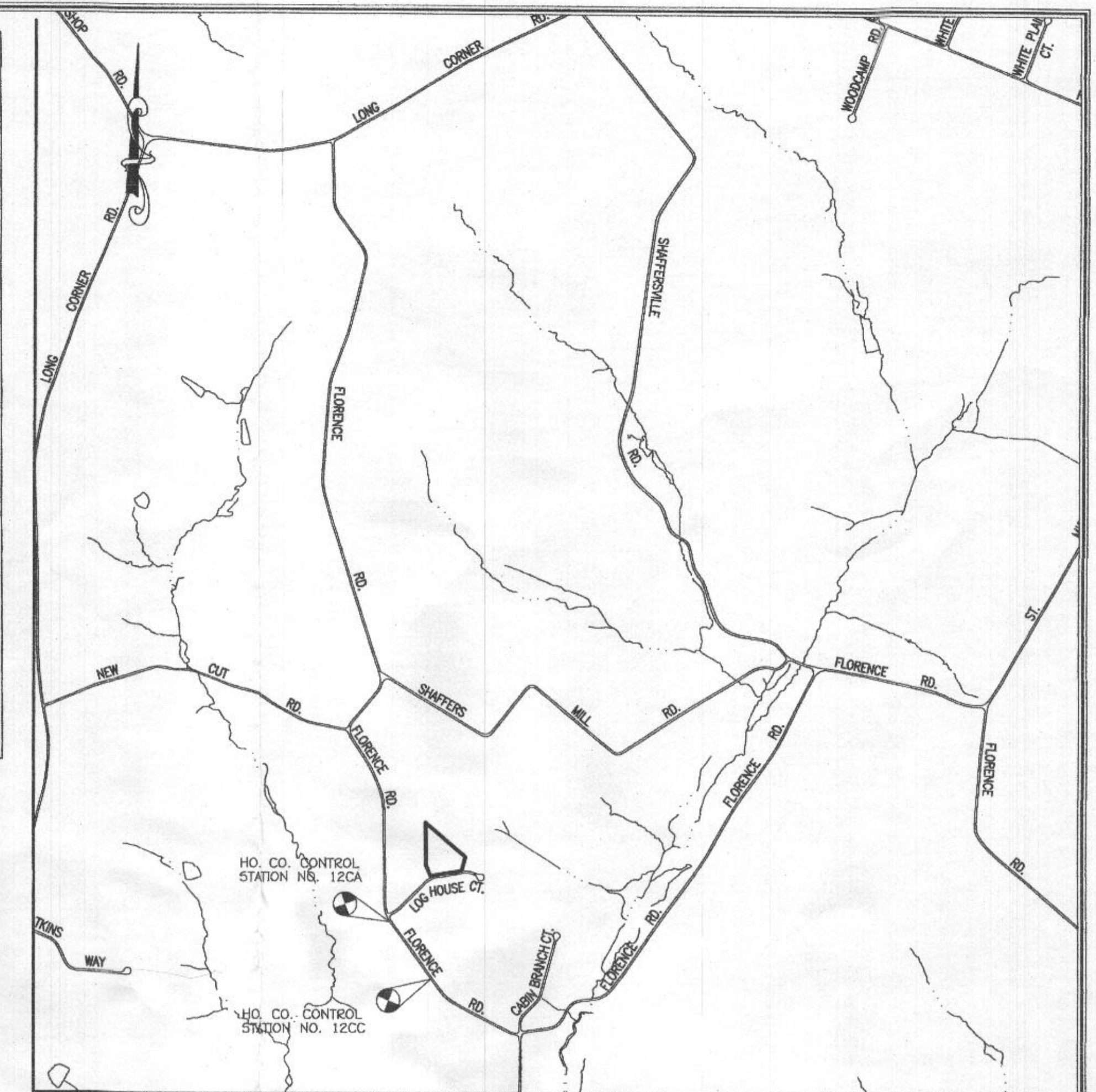
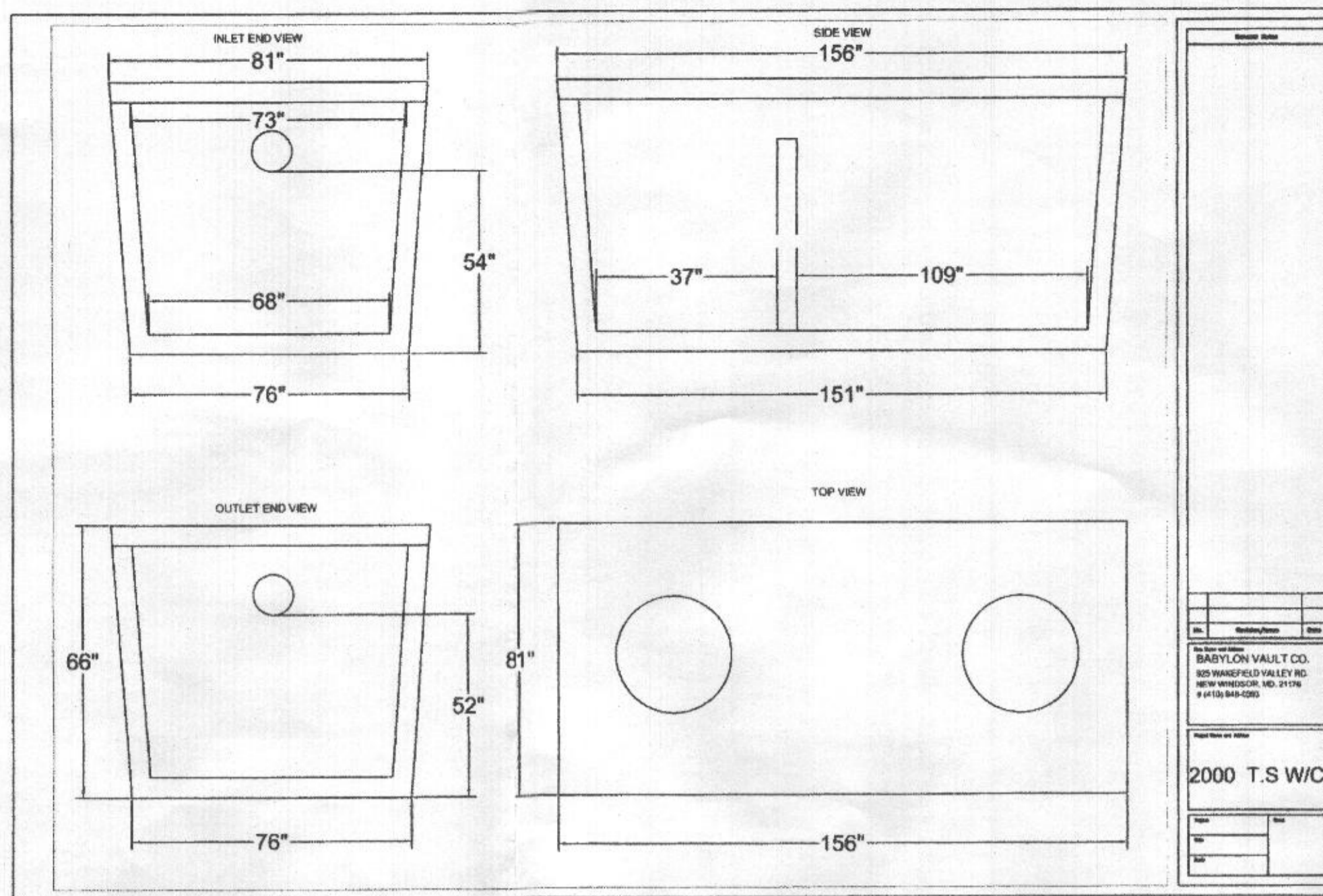
SaniSwift

SAW 021

14'V 140H

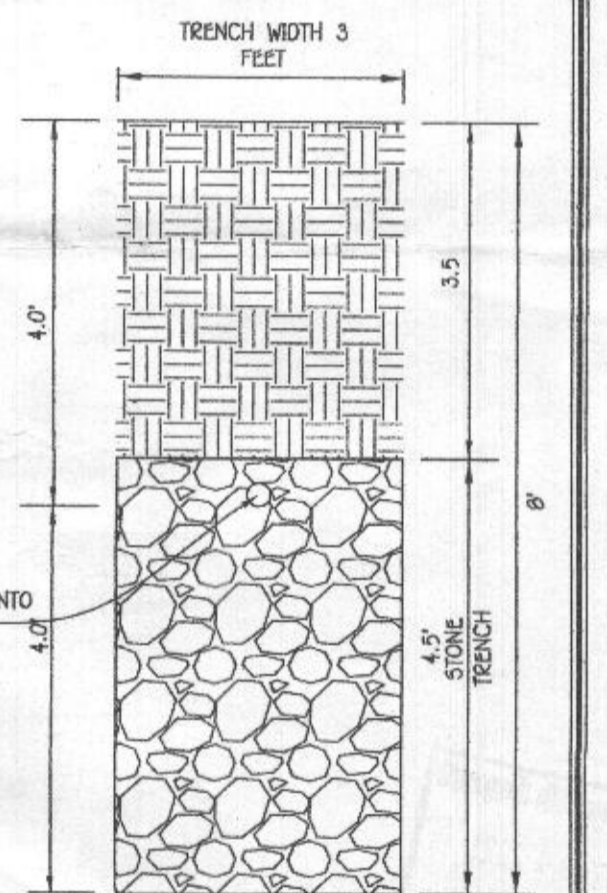
285

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. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL HO-20-0071 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. 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.



FFE 679.20
BSE 669.00
INV. OUT OF HOUSE = 675.05
PROP. GROUND AT CLEANOUT #1 = 678.0
INV. INTO CLEANOUT = 674.95
INV. OUT OF CLEANOUT = 674.85
EX. GROUND AT SEPTIC TANK = 678.6
PROP. GRADE ABOVE SEPTIC TANK = 678.0
TOP OF SEPTIC TANK = 675.2
INV. INTO SEPTIC TANK = 674.2
INV. OUT OF SEPTIC TANK = 673.95
EX. GROUND AT DISTRIBUTION BOX = 677.2
INV. INTO DISTRIBUTION BOX = 673.3
INV. OUT OF DISTRIBUTION BOX = 673.2

VICINITY MAP
SCALE: 1" = 1200'



TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 677.2
INV. IN = 673.2
BOTTOM TRENCH = 669.2

TRENCH 2:
EX. GROUND ABOVE = 676.5
INV. IN = 672.5
BOTTOM TRENCH = 668.5

INITIAL SYSTEM

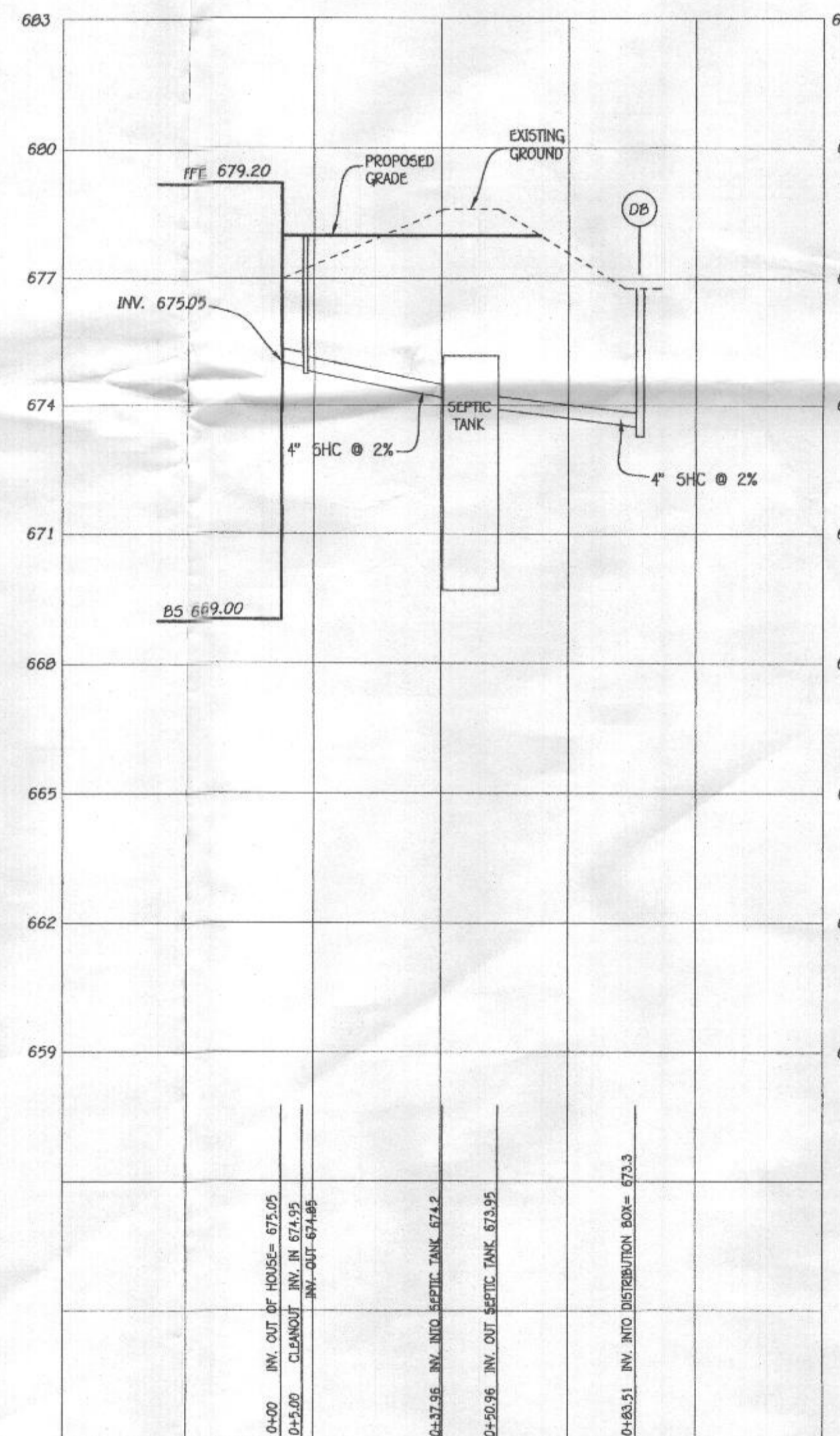
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41$
TRENCH LENGTH = 375 SF x 0.41 = 153.75 FEET
(USE 2 TRENCHES AT 76.88 L.F.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

1ST REPLACEMENT SYSTEM

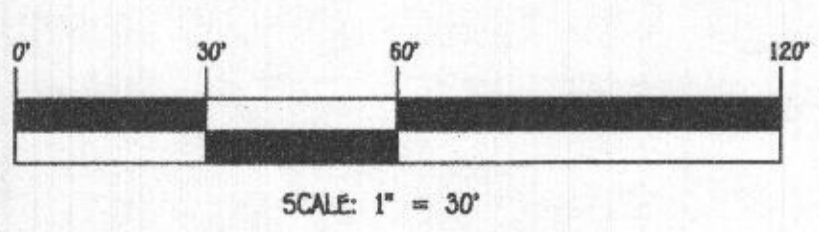
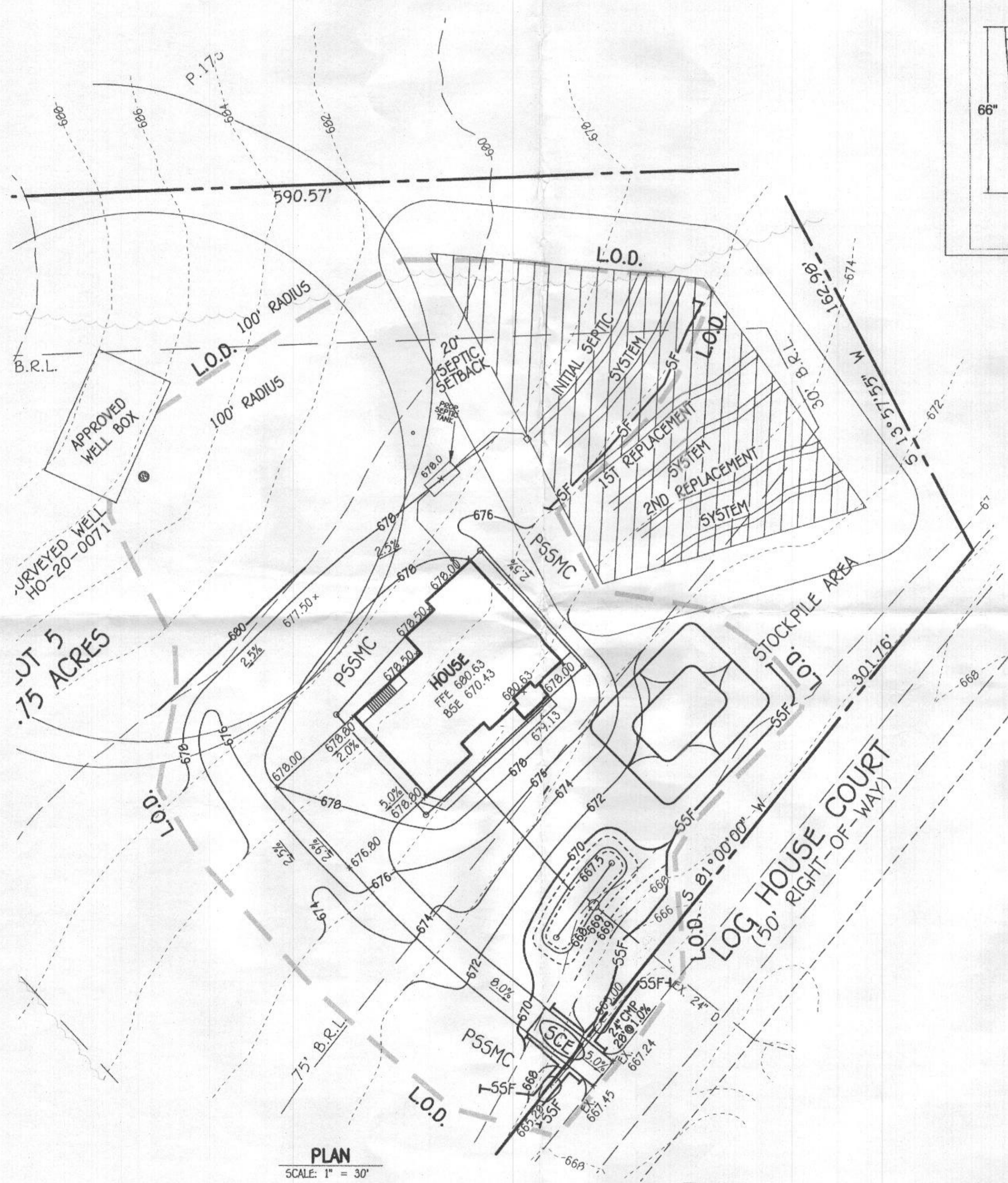
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2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41$
TRENCH LENGTH = 375 SF x 0.41 = 153.75 FEET
(USE 2 TRENCHES AT 76.88 L.F.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'



SEPTIC PROFILE
SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CORPORAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2895



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. 20748, EXPIRATION DATE: 02/22/2023.

Michael J. DeLoe
Signature of Professional Engineer

10/4/21
DATE

OWNER
HELEN W. BOYER TRUSTEE
25915 WOODFIELD ROAD
DAMASCUS, MARYLAND 20872

Approved Septic System Plan
Howard County Health Department
Robert J. ...
Signature Date 10/21/2021

**SEPTIC SYSTEM
INSTALLATION SITE PLAN**
LOT 5
LOG HOUSE COURT
FLORENCE ESTATES SECTION 2
ZONED: RR-DEO
TAX MAP: 6 GRID: 23 PARCEL: 12
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
DATE: OCTOBER 4, 2021