



HOWARD COUNTY HEALTH DEPARTMENT

69624

DATE
7/12/21

PS

Received From

Marc W Hereth

PHONE #

301 580-6877

Construction

For

Septic Permit/ Lot 2

Patrick Family

CASH

CHECK

NO.

1574

Three hundred ninety eight

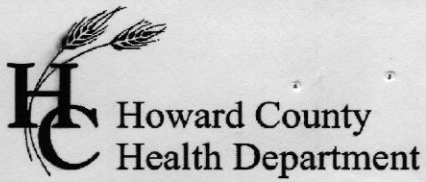
Dollars

\$

398 00

Received By

J King



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: 07/26/2021 **ONSITE SEWAGE DISPOSAL SYSTEM** P 569624

APPROVAL DATE: 8/12/21 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 1604 Florence Road, Mount Airy, MD 21771

SUBDIVISION: Patrick Family Limited Partnership II LOT: 2 TAX ID: _____

CONTRACTOR: Marc D Hereth Construction EMAIL: _____

CONTRACTOR ADDRESS: 2551 Florence Road, Woodbine, MD 21797 PHONE: _____

PROPERTY OWNER: _____ EMAIL: _____

OWNER ADDRESS: _____ PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon or Equivalent

PUMP MODEL: - PUMP SIZE - PUMP TANK CAPACITY: -

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

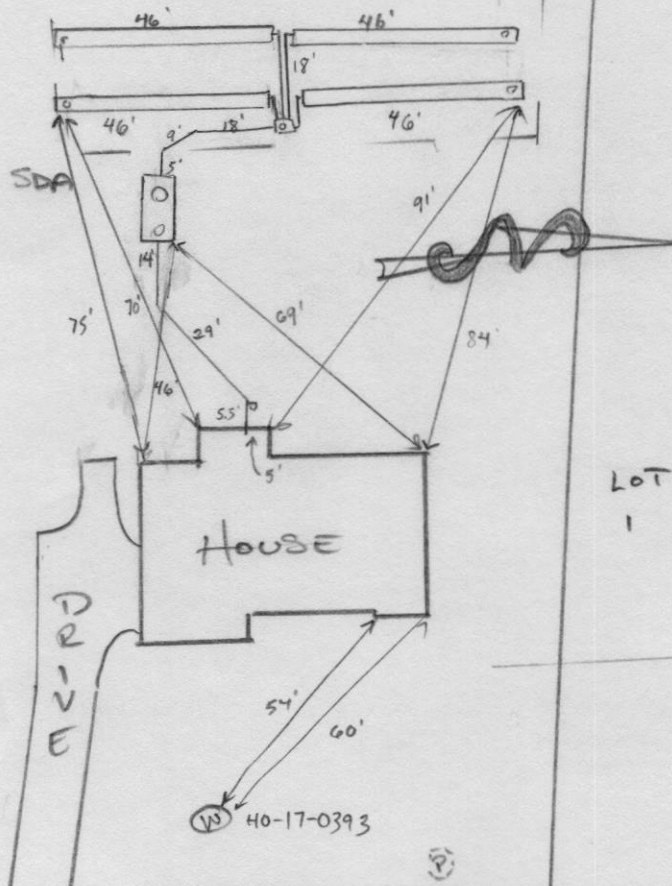
TRENCHES:	LINEAR FEET REQUIRED: <u>178'</u>	INLET DEPTH: <u>1.5'</u>
	TRENCH WIDTH: <u>3'</u>	MAXIMUM BOTTOM DEPTH: <u>6'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 4 x 44.5' Trenches	

ISSUED BY: Cabahug 001997 ISSUE DATE: 08/02/2021 EXPIRATION DATE: 08/02/2022

- 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 (2:1:40)



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	1.5'	6'
NUMBER OF TRENCHES		4
TOTAL LENGTH		184'
ABSORPTION AREA		552 sq ft + sidewalk
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	0.5'
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	inlet + outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	6-30-21
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	

LOT 3

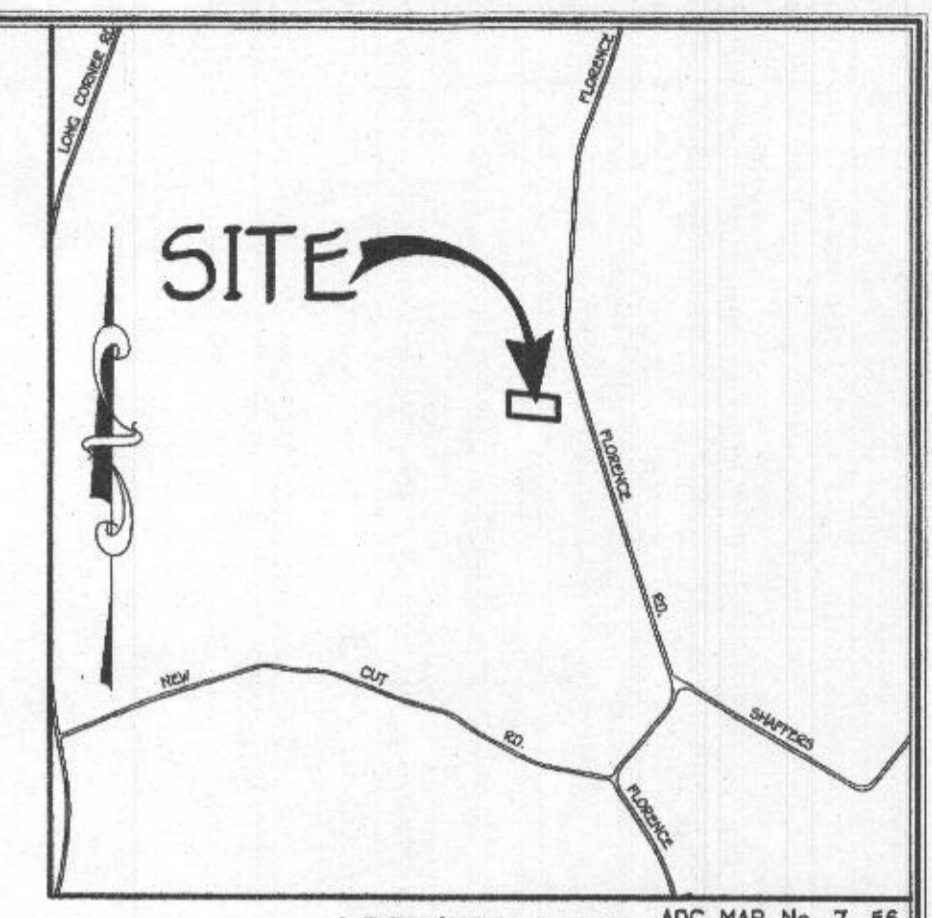
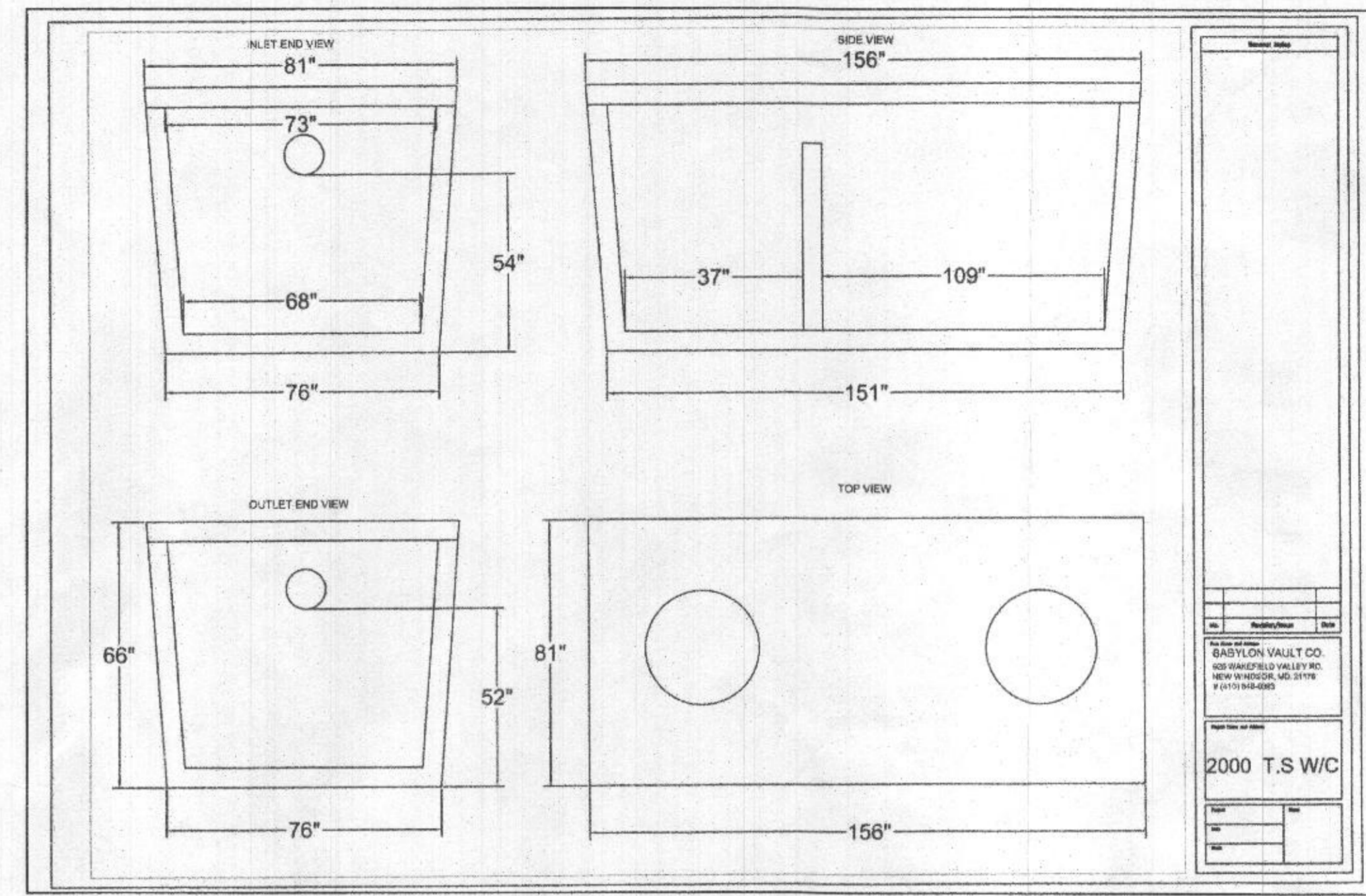
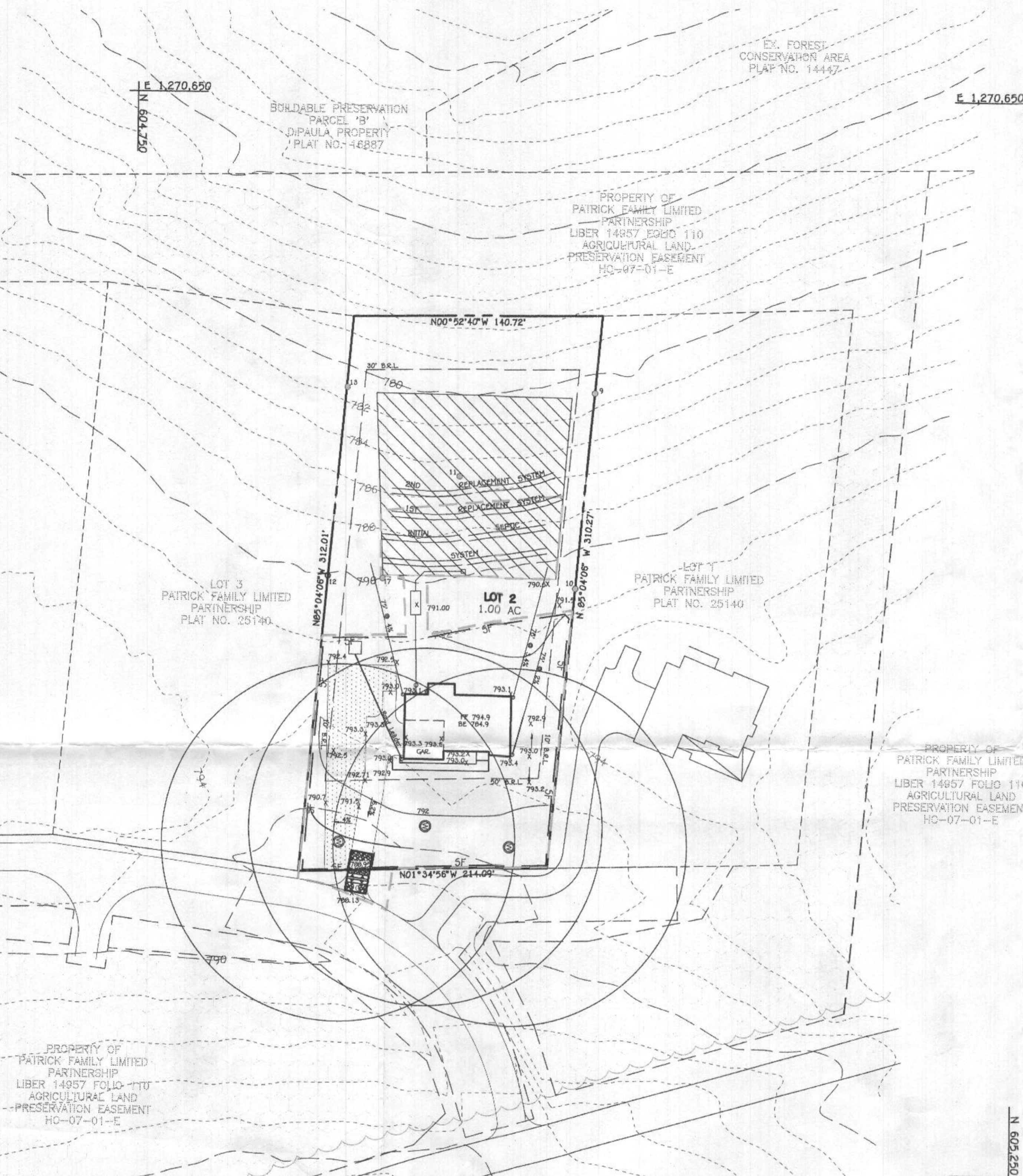
LOT 1

ROAD NAME
FLORENCE ROAD

PRE-CONSTRUCTION:
08/02/2021 CONFIRMED CONTOUR. SHC RAISED BY ~2' IN HOUSE. OK. (S)

INSTALLATION: 8/12/21 SHC, SI constructed. Tank set and d-box set and leveled. 4x46' trenches installed. (S)

FINAL INSPECTOR Susan Thomas DATE OF APPROVAL 8/12/21

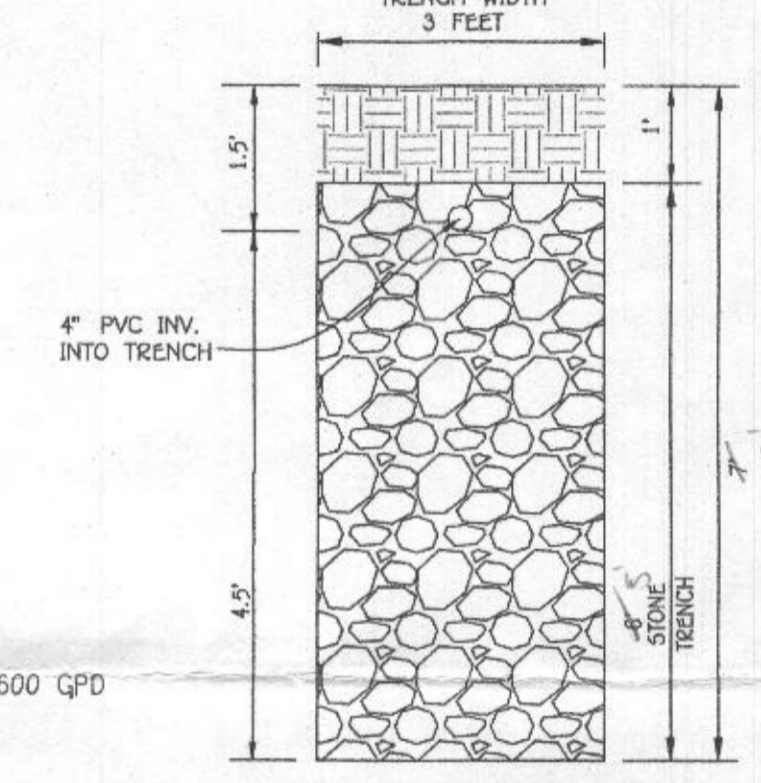


VICINITY MAP
SCALE: 1" = 1200'
ADC MAP No. 7, E6

TRENCH DATA:

TRENCH	EX. GROUND ABOVE	INV. IN	BOTTOM TRENCH
TRENCH 1	789.7	786.7	783.7
TRENCH 2	789.7	786.7	783.7
TRENCH 3	788.1	785.1	782.1
TRENCH 4	788.1	785.1	782.1

FFE 794.9
BSE 784.9
INV. OUT OF HOUSE = 788.69
PROP. GROUND AT CLEANOUT #1 = 793.1
INV. INTO CLEANOUT = 788.59
INV. OUT OF CLEANOUT = 788.49
EX. GROUND AT SEPTIC TANK = 791
PROP. GRADE ABOVE SEPTIC TANK = 791
TOP OF SEPTIC TANK = 788.72
INV. INTO SEPTIC TANK = 787.72
INV. OUT OF SEPTIC TANK = 787.47
EX. GROUND AT DISTRIBUTION BOX = 789.7
INV. INTO DISTRIBUTION BOX = 786.8
INV. OUT OF DISTRIBUTION BOX = 786.7

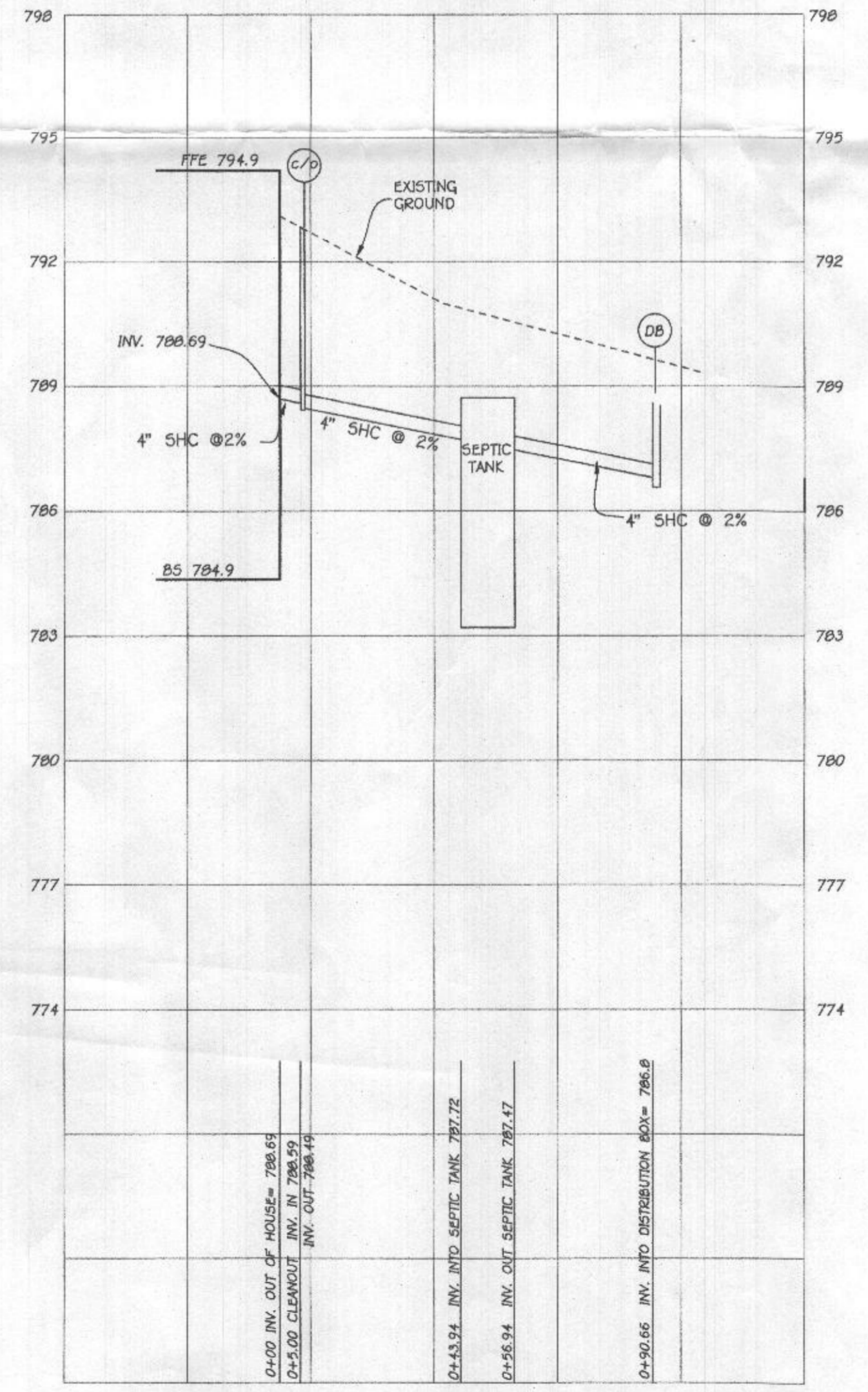


INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1.5 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x1.5)) = 0.71
TRENCH LENGTH = 250 SF x 0.71 = 177.50 FEET
(USE 4 TRENCHES AT 44.37 L.F.)
TRENCH SPACING = 2D+W = ((2x1.5) + 3) = 6' USE 10'

LEGEND

SYMBOL	DESCRIPTION
(---)	EXISTING CONTOUR 2' INTERVAL
(---)	PROPOSED CONTOUR 2' INTERVAL
(+)	SPOT ELEVATION
(-5SF -5SF)	SUPER SILT FENCE
(---)	WALKOUT BASEMENT
(---)	LIMITS OF DISTURBANCE
(---)	ECM
(---)	EROSION CONTROL MATTING
(---)	STONE CONSTRUCTION ENTRANCE

1ST & 2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET
TRENCH DEPTH = 6 FEET
EFFECTIVE DEPTH (D) = 2.5 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 500 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2.5)) = 0.55
TRENCH LENGTH = 166.67 SF x 0.55 = 91.67 FEET
(USE 2 TRENCHES AT 45.83 L.F.)
TRENCH SPACING = 2D+W = ((2x2.5) + 3) = 8' USE 10'



SEPTIC PROFILE
SCALE: 1" = 30'

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-17-0393 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.

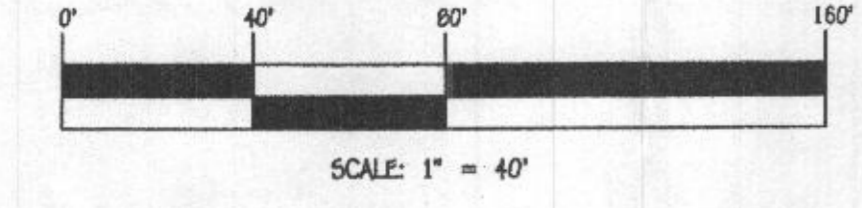


PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2021.

Michael J. DeWald
Signature of Professional Engineer
12-9-2020
DATE

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
2	1604 FLORENCE ROAD



OWNER/DEVELOPER
PATRICK FAMILY LIMITED PARTNERSHIP II
1960 DASY RD
WOODBINE MD 21797

BUILDER
CARIN CUSTUM HOMES
10548 GORMAN RD
LAUREL, MD 20723
301-490-5317

FISHER, COLLINS & CARTER, INC.
CIVIL, ENGINEERING, CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10276 BALTIMORE NATIONAL PIKE
GLEETON CITY, MARYLAND 21042
(410) 461-2899

NO.	REVISION	DATE

Approved Septic System Plan
Howard County Health Department
DeWald 12-9-20
Signature Date
B20004087

SEPTIC SYSTEM
INSTALLATION SITE PLAN
PATRICK FAMILY LIMITED
PARTNERSHIP
LOT 2
ZONED: RC-DEO
TAX MAP NO.: 6 GRID NO.: 17 PARCEL NO.: 65
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: OCTOBER 23, 2020
SHEET 1 OF 1