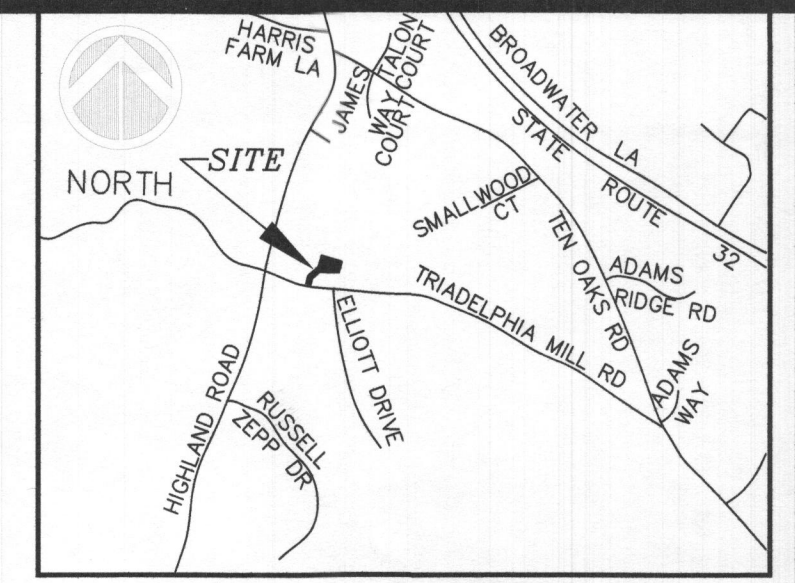
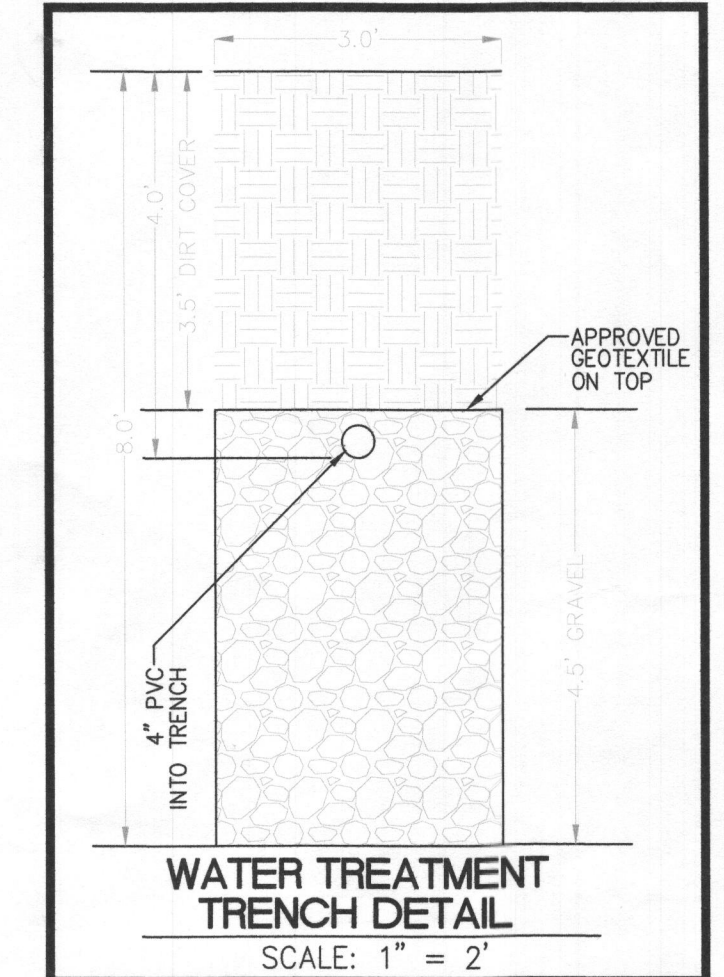


LEGEND	
	EX. WATER WELL
	EX. STREET SIGN
	EX. WOOD POST
	EX. TELEPHONE PEDESTAL
	EX. SANITARY CLEAN OUT
	EX. UTILITY POLE
	EX. GUY WIRE ANCHOR
	EX. STORM DRAIN MANHOLE
	EX. STUMP
	EX. EVERGREEN TREE
	EX. DECIDUOUS TREE
	PROP. SPOT ELEVATION
	EX. CONTOUR
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	DENOTES (BUILDING RESTRICTION LINE)
	PROP. STABILIZED CONSTRUCTION ENTRANCE
	EX. SEPTIC RESERVE AREA
	EX. WELL RESERVE BOX
	EX. PASSING PERCOLATION TEST
	PROP. DRAINAGE AREA LIMIT
	PROP. SURFACE FLOW DIRECTION



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP - 24
GRID - E8



TRENCH	TRENCH LENGTH	EX. TOP OF GROUND	TOP OF GRAVEL	INV. INTO TRENCH	BOTTOM OF TRENCH
1	33.5'	567.0±	563.5	563.0	559.0
2	33.5'	566.2±	562.7	562.2	558.2
3	33.5'	565.0±	561.5	561.0	557.0

- Required BAT 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.
 - The maximum depth of the BAT per the manufacturer's specification is 6 feet.
 - The blower may not be located 50 feet more than manufacturer's specifications.
 - The BAT system shall be maintained and operated for the life of the system.
 - The BAT shall be operated by and maintained by a certified service provider.
 - Within one month of installation, a person installing the BAT system shall report to the Maryland Department of the Environment (MDE) in a manner acceptable to MDE, the address and date of completion of the BAT installation and the type of BAT installed.
 - Electrical work for the BAT installation must be performed by a licensed electrician.
 - An Agreement and Easement must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
 - The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.

- NOTES:**
- ANY CHANGES 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.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET OR LESS. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE EXISTING WELL (TAG # HO-17-0238) HAS BEEN FIELD LOCATED AND ACCURATELY SHOWN ON THIS PLAN.
 - ALL EXISTING 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 ON THIS PLAN.
 - THE TOPOGRAPHY SHOWN ON THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY BY NJR & ASSOCIATES PERFORMED ON SEPTEMBER OF 2020.
 - THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
 - THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
 - TRENCHES OF VARIABLE LENGTH ARE PROVIDED FOR THE REPLACEMENT SYSTEM FOR THIS SITE. A VARIABLE FLOW DISTRIBUTION BOX WILL BE REQUIRED FOR THE REPLACEMENT SYSTEM IN THE FUTURE, IF THE INITIAL SYSTEM FAILS.

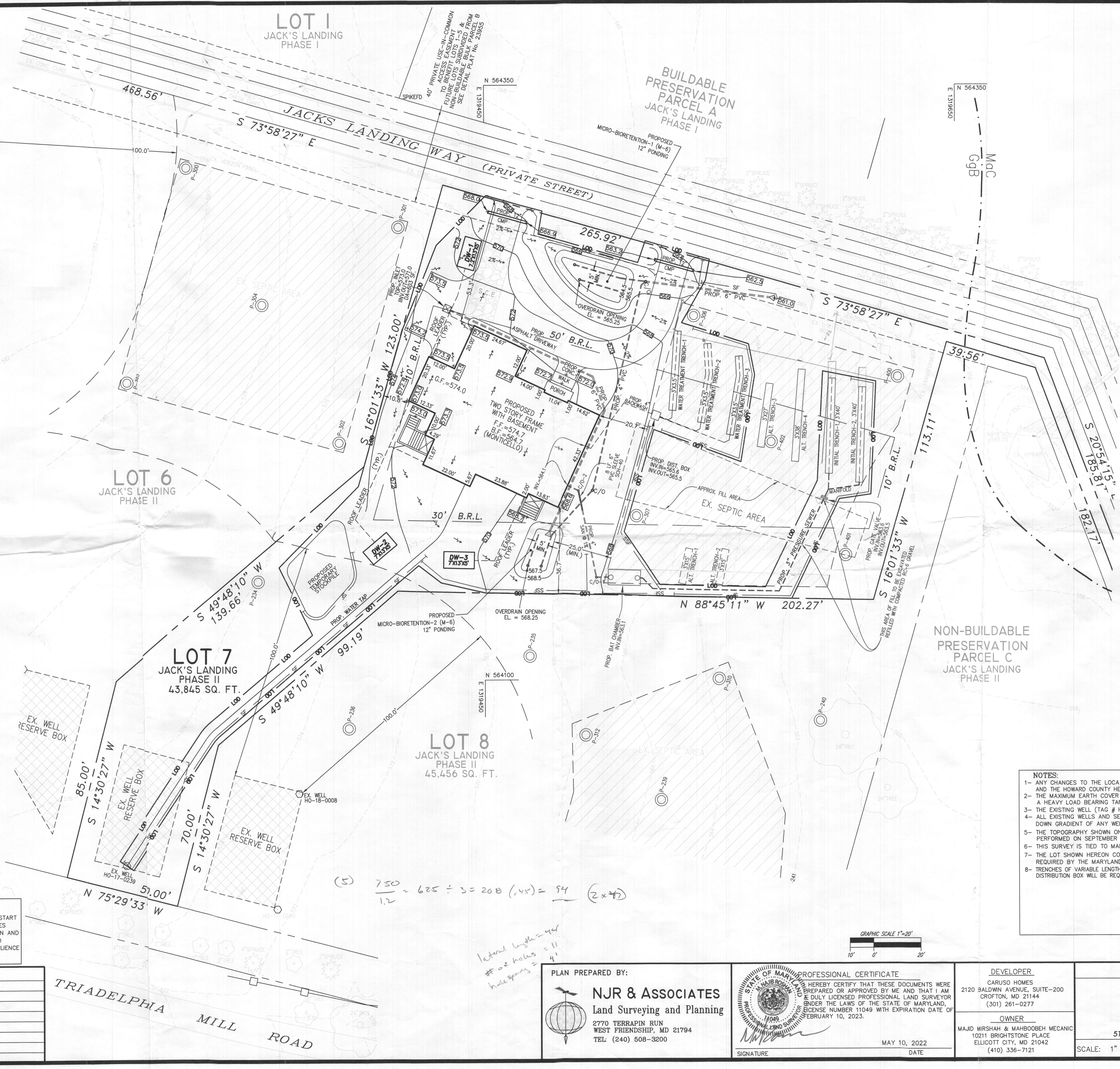
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT. DATE

SYMBOL	NAME/DESCRIPTION	TYPE	HYDRIC
GgB	Glencol Loom, 3% to 8% Slopes	B	No

- GENERAL NOTES**
- ZONING: RR-DEO.
 - PROPOSED SEWER - PRIVATE; PROPOSED WATER - PRIVATE.
 - THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY NJR & ASSOCIATES IN SEPTEMBER OF 2020.
 - THERE IS NO 100 YEAR FLOODPLAIN ON SITE.
 - THERE ARE NO WETLANDS AND STREAMS ON SITE.
 - THERE ARE NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES ON SITE.
 - TOTAL AREA WITHIN LOD = 23,736 SQ.FT.
 - WATERSHED = PATUXENT RIVER
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 ATLEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - CONTRACTOR TO MAINTAIN POSITIVE SLOPE AWAY FROM THE FOUNDATION OF THE HOUSE.

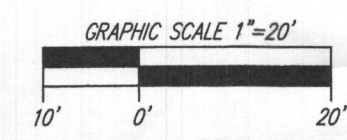
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CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF FREDERICK COUNTY REGULATIONS.

No.	DATE	DETAILS



$$\frac{750}{12} = 62.5 \div 3 = 20.8 (4.5) = 94 (2 \times 4)$$

*lateral length = 44
of holes = 11
hole spacing = 4'*



PLAN PREPARED BY:
NJR & ASSOCIATES
Land Surveying and Planning
2770 TERRAPIN RUN
WEST FRIENDSHIP, MD 21794
TEL: (240) 508-3200

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 11049 WITH EXPIRATION DATE OF FEBRUARY 10, 2023.

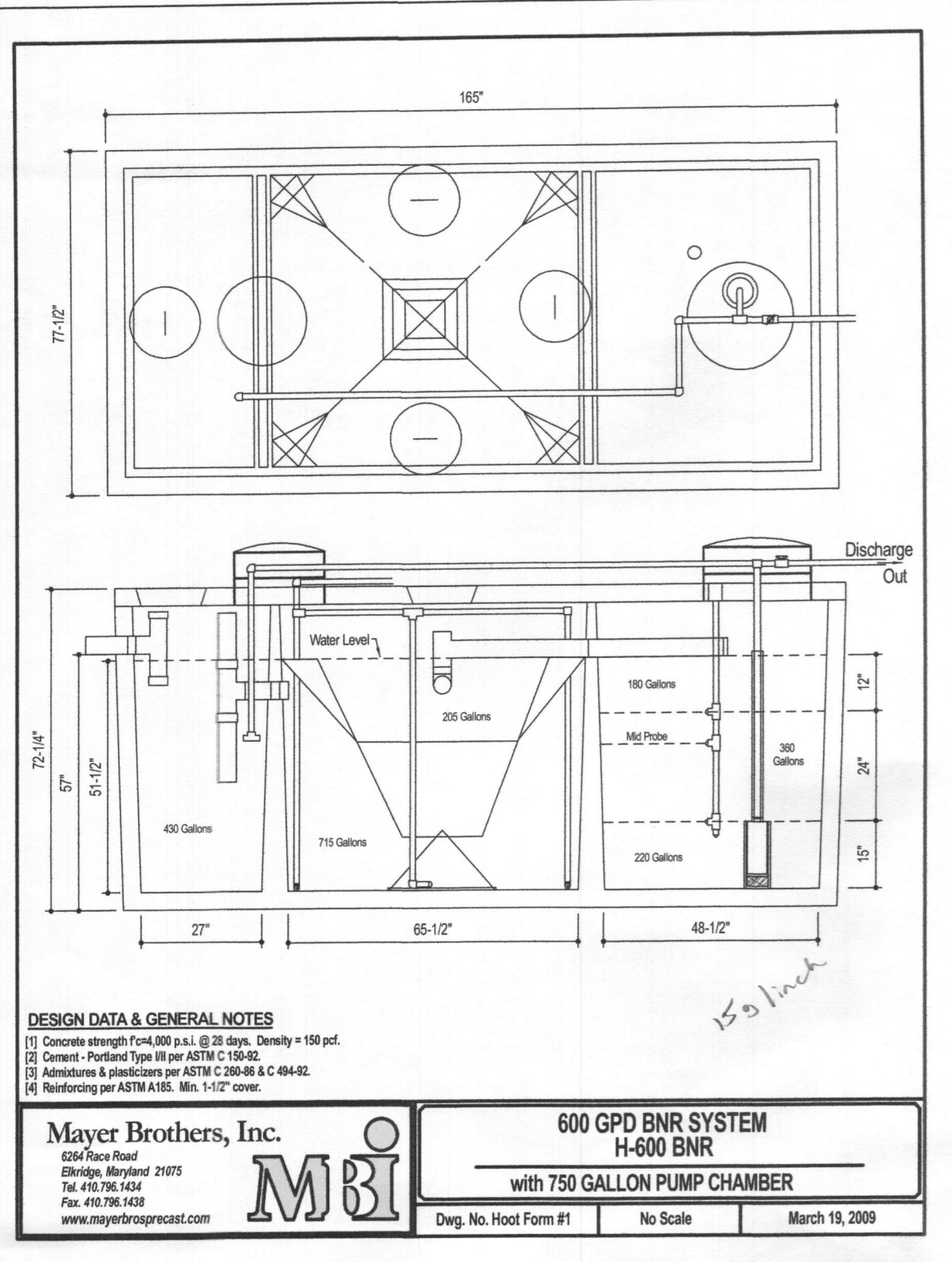
SIGNATURE: *[Signature]*
DATE: MAY 10, 2022

DEVELOPER:
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2120 BALDWIN AVENUE, SUITE-200
CROFTON, MD 21144
(301) 261-0277

OWNER:
MAJID MIRSHAH & MAHBOOBH MECANIC
10211 BRIGHTSTONE PLACE
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SITE PLAN FOR BAT INSTALLATION
JACK'S LANDING, PHASE II
LOT 7
PLAT No. 25063
5513 JACKS LANDING WAY, CLARKSVILLE
TAX MAP 34, GRID 3, PARCEL 414
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 20' JOB NO.: 3438 DATE: DEC. 5, 2020 SHEET: 1 OF 2



Wastewater

Goolds Water Technology

APPLICATIONS
 Specifically designed for the following uses:
 • Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump

- Solids handling capabilities: 1/2" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 1/2 - 1 1/2 HP models.
- Class F insulation on 2 HP models.
- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

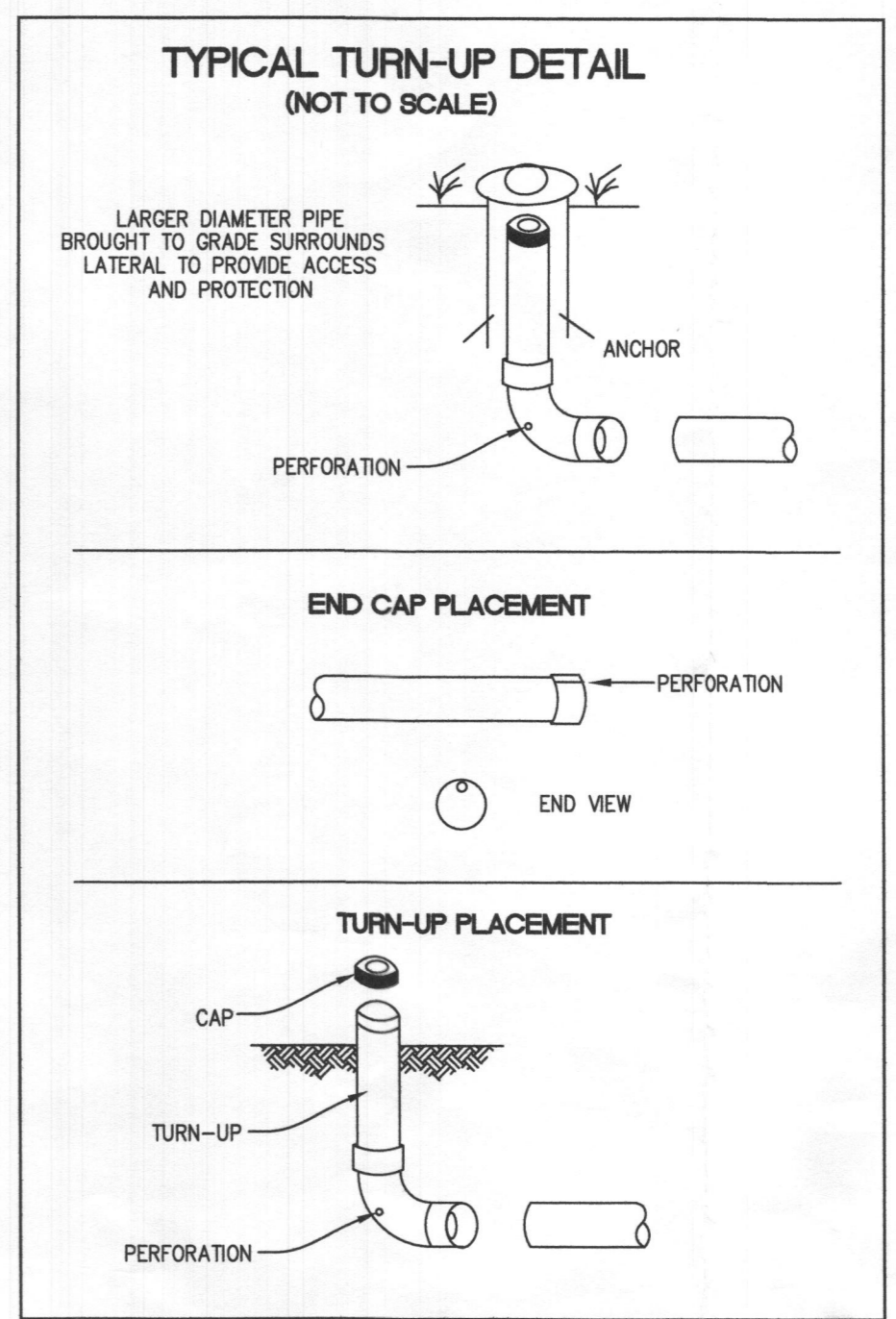
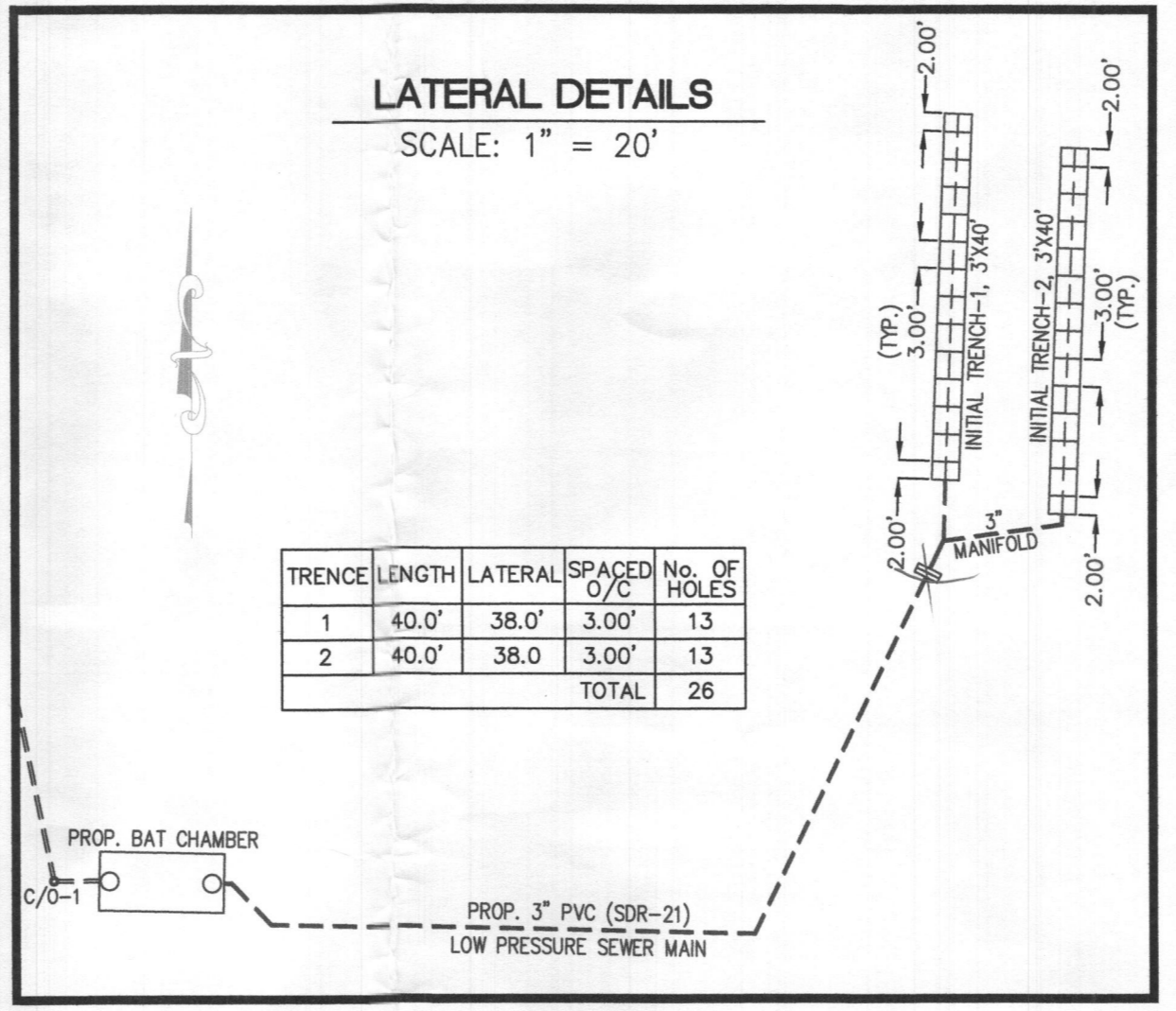
AGENCY LISTINGS

Tested to UL 778 and CSA 22-2 188 Standards by Canadian Standards Association File #128549

PERFORMANCE CURVE

Series: WE 3500 & 1750
 RPM: 3500 & 1750
 1/2" SOLIDS
 5 GPM
 3 FT

Y-axis: TOTAL DYNAMIC HEAD (METERS/FEET)
 X-axis: CAPACITY (GPM/ml/hr)



MINIMUM SYSTEM DISCHARGE RATE = 42.4 gpm
 3" PVC MAIN f = 1.73' / 100'
 3" MANIFOLD

DOSE:
 LATERALS + MANIFOLD + MAIN
 1.5" LATERALS: 2 X 38 X 10.6 / 100 = 8.1 GALS.
 3" FORCE MAIN 104.3 X 38.4 GAL/100 L.F. = 40.1 GALS.
 3" MANIFOLD 24.3 X 38.4 GAL./100 L.F. = 9.3 GALS.
 57.5 GALS.

1/8 X 750 GAL = 125 GALLONS > 57.5 => (125 GAL = MIN. DOSE)
 RUNTIME = 1.5 MIN.

PUMP CHAMBER:
 ONE DAY DOSE = 1,200 GALLONS

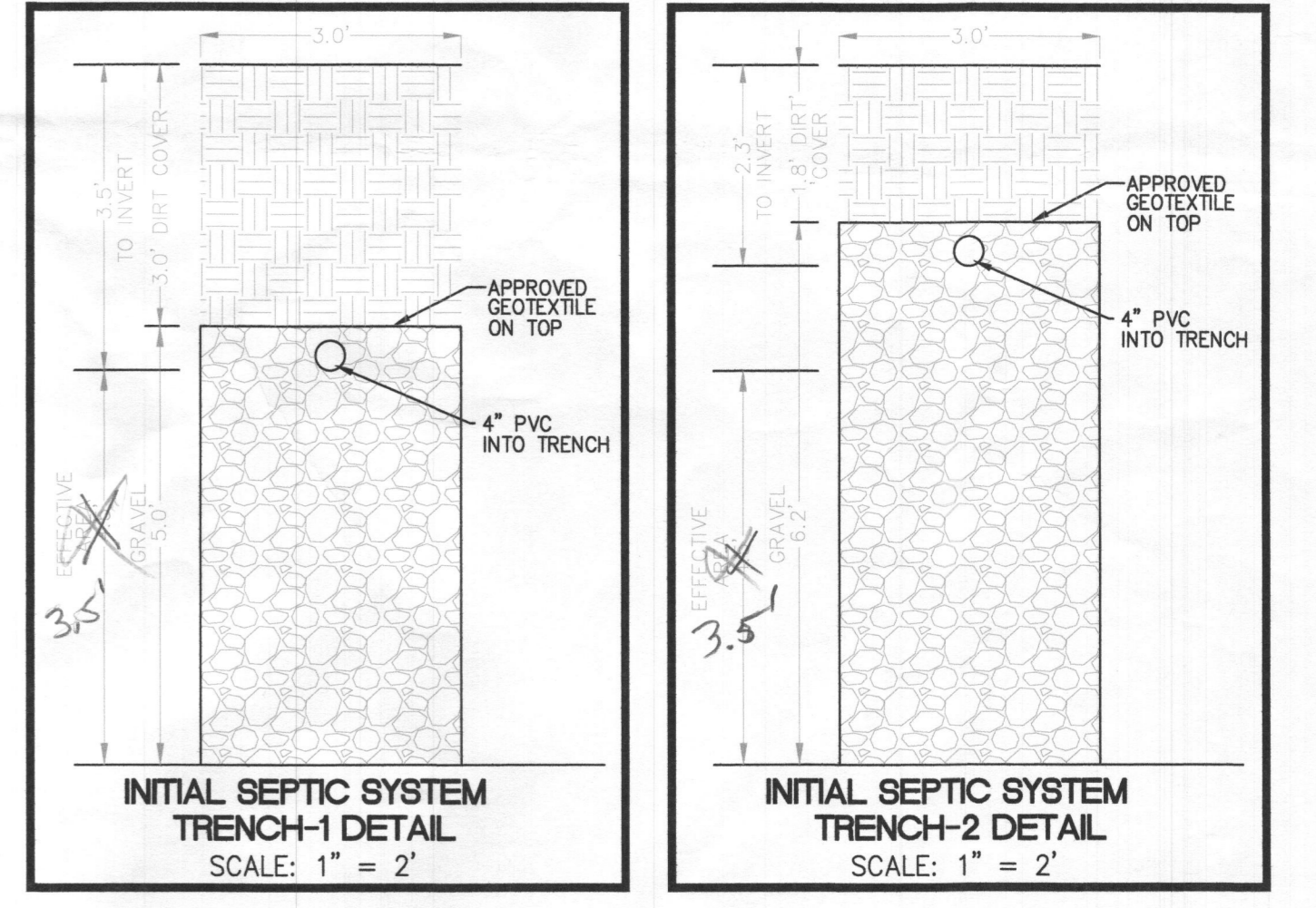
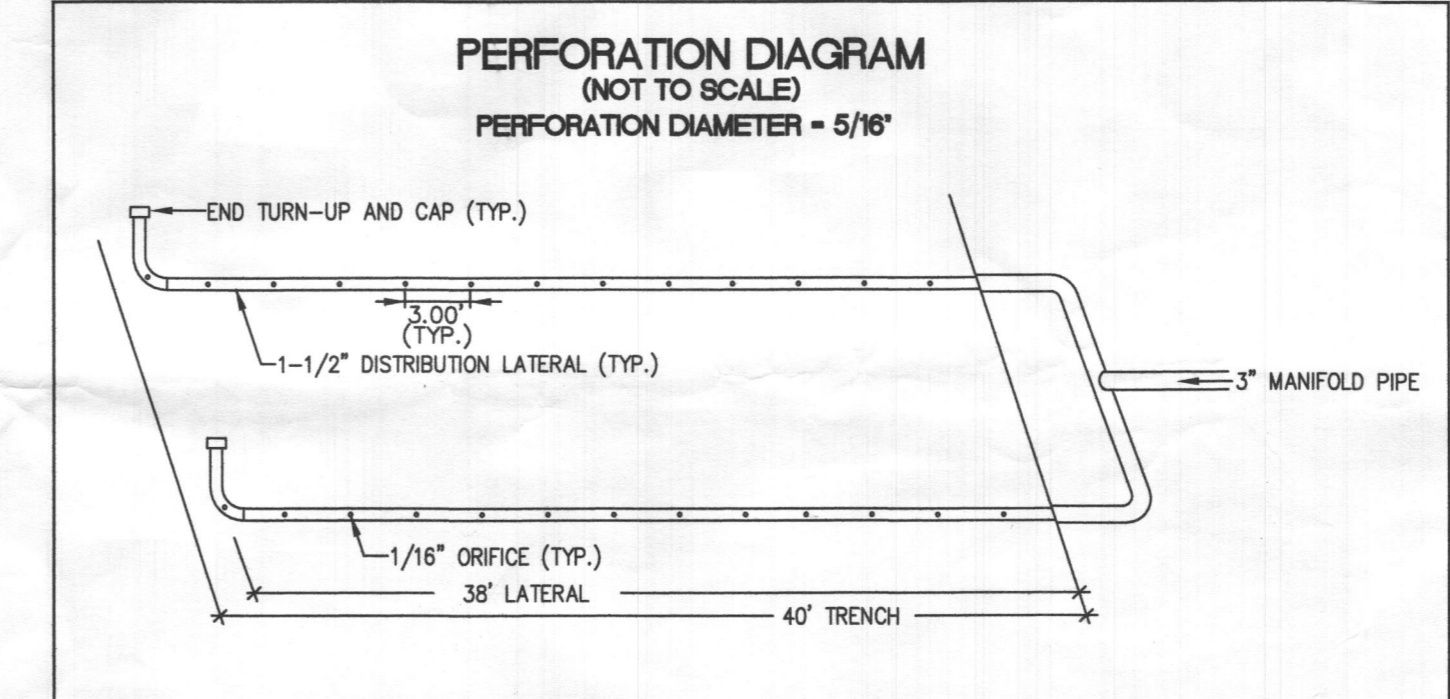
TDH: (FITTINGS)

DISCONNECT : 1 X 3 = 3
 45' : 3 X 6 = 18
 90' : 3 X 10 = 30
 VALVES : 1 X 2 = 2
 TOTAL = 53

FRICITION:
 MAIN + FITTINGS = 104.3 + 53 = 157.3
 157.3 (1.73/100) = 2.72

STATIC:
 (INVERT OF MANIFOLD - PUMP OFF) 557.3 - 559.89 = -2.59

DISTAL HEAD = 2.0'
 TDH (2.72 - 2.59 + 2.0) = 2.13 @ 42.4 GPM
 USE GOULDS PUMP MODEL (WE03L)



SEPTIC SYSTEM CALCULATIONS:

INITIAL SYSTEM
 ABS. RATE = 1.2, EFFECTIVE DEPTH = 3.5' - 8' (4.5')
 DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{WIDTH+1+2(DEPTH)} = \frac{3+2}{3+1+2(4.5)} = \frac{5}{13} = 0.385$
 LENGTH OF TRENCHES: $625 \text{ SQ. FT.} \times 0.385 = 80 \text{ LINEAR FEET}$

REPLACEMENT SYSTEM
 ABS. RATE = 1.2, EFFECTIVE DEPTH = 4.5' - 8' (3.5')
 DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{WIDTH+1+2(DEPTH)} = \frac{3+2}{3+1+2(3.5)} = \frac{5}{11} = 0.455$
 LENGTH OF TRENCHES: $625 \text{ SQ. FT.} \times 0.455 = 95 \text{ LINEAR FEET}$

REPLACEMENT SYSTEM: FOUR TRENCHES OF VARIABLE LENGTH, 3 FEET WIDE, 10 FEET MINIMUM SPACED ARE PROVIDED. THE LENGTHS OF THE PROPOSED
 TRENCHES-1 = 15'
 TRENCHES-2 = 15'
 TRENCHES-3 = 27'
 TRENCHES-4 = 38'
 TOTAL = 95'

$q = 16.82 (-3.125)^2 \times \sqrt{2} = 1.63$
 (.719)
 3' = .5
 3.5' = .45

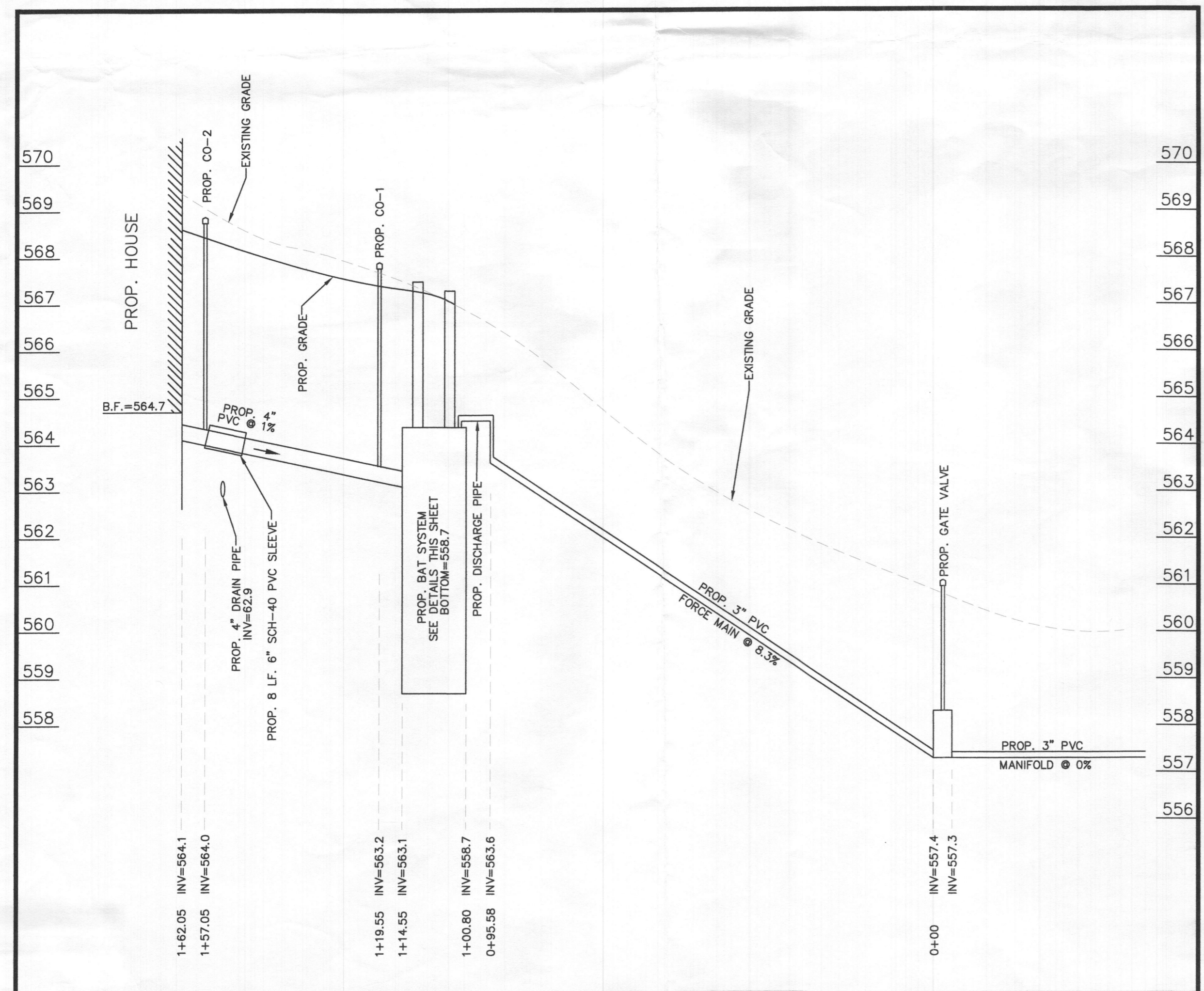
SEPTIC TRENCH INFORMATION, INITIAL SYSTEM

TRENCH	TRENCH LENGTH OF GROUND	EX. TOP ELEV.	TOP OF GRAVEL	INV. INTO TRENCH	BOTTOM OF TRENCH	DEPTH OF STONE	SURFACE TO TOP OF STONE	START OF EFFECTIVE DEPTH	EFFECTIVE DEPTH	TRENCH DEPTH	TRENCH WIDTH	TRENCH SPACING
1	40.0'	560.8±	557.8	557.3	552.8	5.0'	3.0'	557.3	4.5'	8.0'	3.0'	10.0'
2	40.0'	559.6±	557.8	557.3	551.6	6.2'	1.8'	556.1	4.5'	8.0'	3.0'	10.0'

* Pipe inverts had lateral 1 and 2

LOW PRESSURE DOSING SYSTEM

TRENCH	GROUND ELEV.	PIPE INVERT ELEV.	TRENCH LENGTH	LATERAL LENGTH	ASSUMED HEAD	ORIFICE DIAMETER	ORIFICE FLOW RATE	ORIFICE SPACING	ORIFICE NUMBER	FLOW RATE GPM/LF	FLOW RATE TRENCH
1	560.8±	557.3±	40.0'	38.0'	2.0'	5/16"	1.63 gpd	3.00'	13	0.56	21.2 GPM
2	559.6±	557.3±	40.0'	38.0'	2.0'	5/16"	1.63 gpd	3.00'	13	0.56	21.2 GPM
TOTAL											42.4 GPM



SEPTIC SYSTEM PROFILE
 SCALE: HORIZONTAL - 1" = 20'
 VERTICAL - 1" = 2'

PLAN PREPARED BY: **NJR & ASSOCIATES**
 Land Surveying and Planning
 2770 TERRAPIN RUN
 WEST FRIENDSHIP, MD 21794
 TEL: (240) 508-3200

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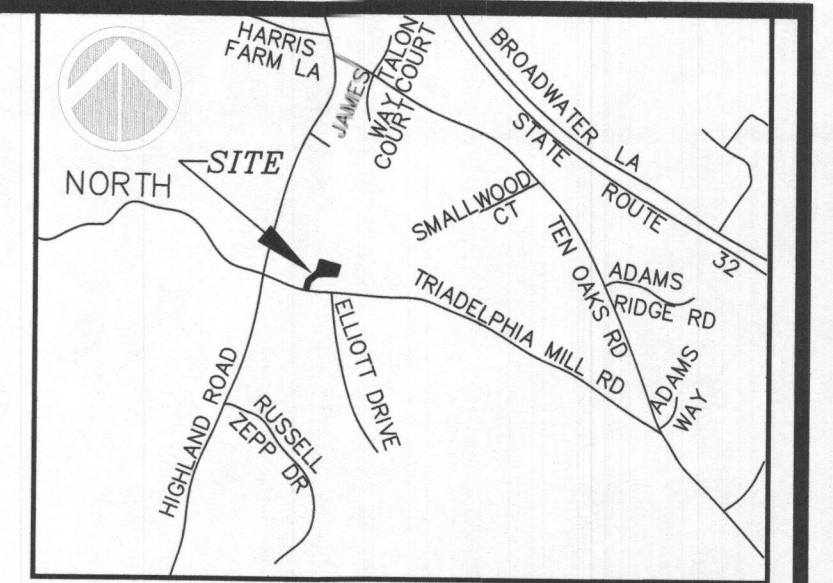
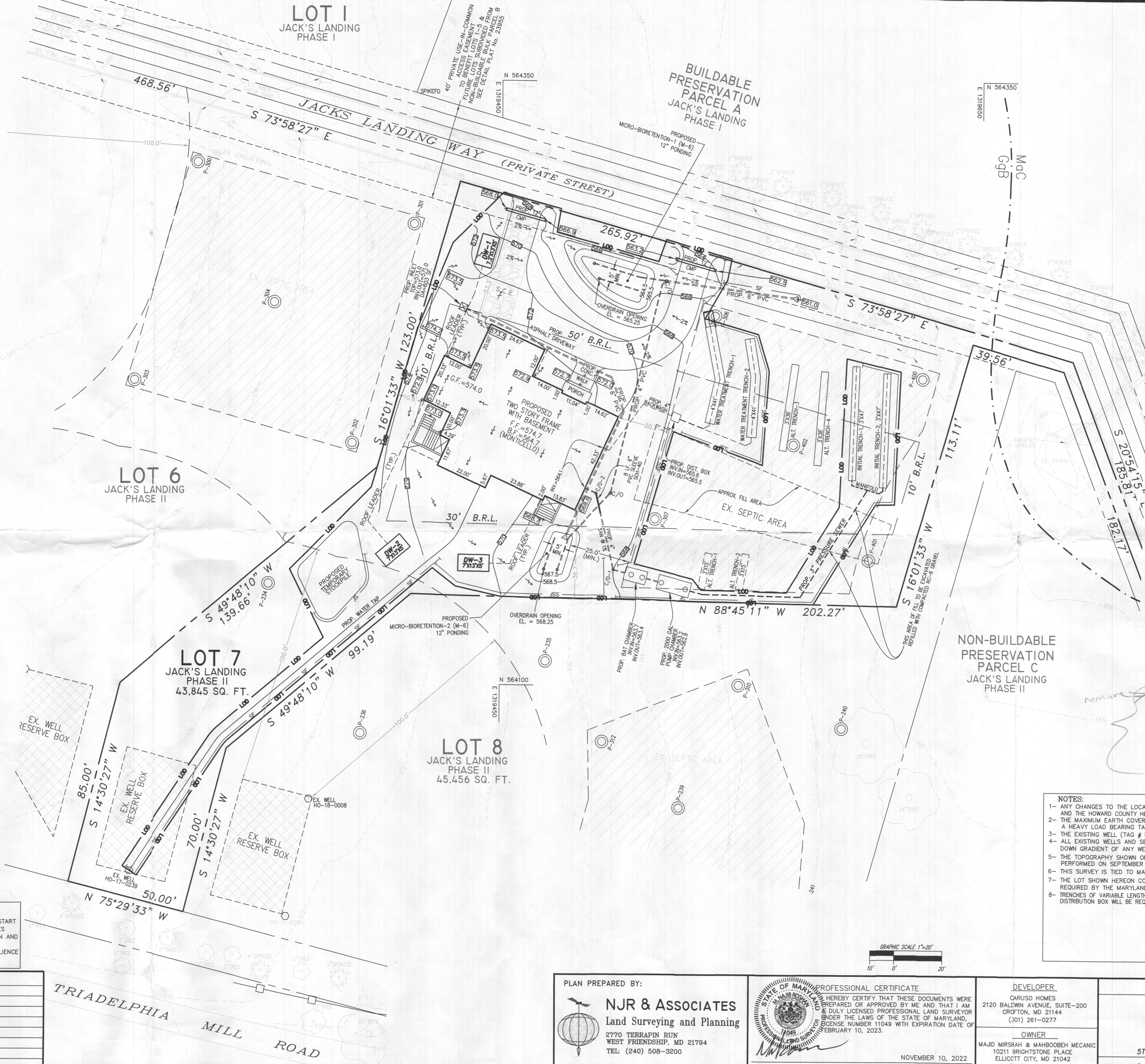
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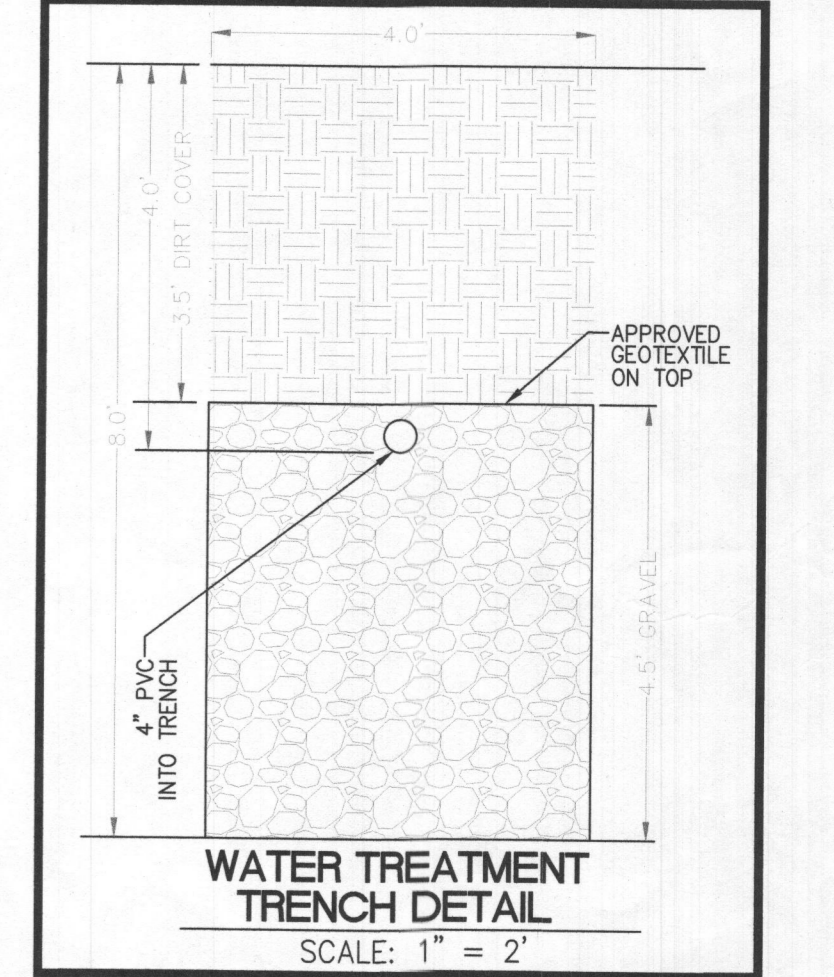
SITE PLAN FOR BAT INSTALLATION
 JACK'S LANDING, PHASE II
 LOT 7
 PLAT No. 25063
 5513 JACKS LANDING WAY, CLARKSVILLE
 TAX MAP 34, GRID 3, PARCEL 414
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 20' JOB NO.: 3438 DATE: DEC. 5, 2020 SHEET: 2 OF 2

LEGEND	
	EX. WATER WELL
	EX. STREET SIGN
	EX. WOOD POST
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	PROP. SURFACE FLOW DIRECTION



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP - 24
GRID - E8



WATER TREATMENT TRENCH INFORMATION					
TRENCH	TRENCH LENGTH OF TRENCH	EX. TOP GRAVEL	TOP OF TRENCH	INV. INTO TRENCH	BOTTOM OF TRENCH
1	41'	566.2±	562.7	562.2	558.2
2	41'	565.0±	561.5	561.0	557.0

WATER TREATMENT SYSTEM SPECIFICATIONS
MANUFACTURED BY LIBERTY PURE SOLUTIONS, INC.
TURNKEY REVERSE OSMOSIS PLANT WITH BOOSTER PUMP, ADJUSTMENT VALVES AND GAUGES FOR PRE, POST, BOOSTED AND PRODUCT WATER AS WELL AS RECYCLED WATER. THIS UNIT WILL COMPLY WITH THE 1:1 PRODUCT/WASTE RATIO, AND CAN PRODUCE UP TO 1800 GALLONS PER DAY.
PRETREATMENT WILL CONSIST OF SEDIMENT FILTRATION, PH ADJUSTMENT, SOFTENING AND/OR ANTI-SCALE/FEED SYSTEM.
POST TREATMENT WILL INCLUDE PH ADJUSTMENT AND UV LIGHT FOLLOWING A 300-400gal STORAGE TANK WITH CONSTANT PRESSURE SYSTEM FOR DELIVERY TO THE HOME.
SODIUM REDUCTION GOAL = 150ppm.
CHLORIDE REDUCTION GOAL = 250ppm.
SOFTENER AND NEUTRALIZER THAT WILL BACKWASH APPROXIMATELY 1-2 TIMES PER WEEK AT A MAXIMUM OF 80 GALLONS PER EVENT.

WATER TREATMENT SYSTEM TRENCH LENGTH CALCULATIONS:

ABS. RATE= 1.2, EFFECTIVE DEPTH= (4.0'), ALLOWABLE SIDEWALL REDUCTION (1.0')

DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 1/2 ABSORPTION RATE= 625 SQ. FT.

AREA OF TRENCH NEEDED: $\frac{625 \text{ SQ. FT.}}{1.0 \text{ gpd/sq.ft.}} = 625 \text{ SQ. FT.}$

SIDEWALL REDUCTION CREDIT: $\frac{1.0 \text{ gpd/sq.ft.}}{1.0 \text{ gpd/sq.ft.}} = 1.0$

LENGTH OF TRENCHES: $\frac{625 \text{ SQ. FT.} \times 0.833}{4} = 130 \text{ LINEAR FEET}$

TWO TRENCHES OF 41 FEET IN LENGTH, 4 FEET WIDE, 10 FEET MINIMUM SPACED ARE PROVIDED.

- Required BAT 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.
 - The maximum depth of the BAT per the manufacturer's specification is 6 feet.
 - The blower may not be located 50 feet more than manufacturer's specifications.
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SOIL TABLE			
SYMBOL	NAME/DESCRIPTION	TYPE	HYDRIC
GgB	Glenns Loom, 3% to 8% Slopes	B	No

- GENERAL NOTES**
- ZONING: RR-200
 - PROPOSED SEWER - PRIVATE; PROPOSED WATER - PRIVATE.
 - THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY NJR & ASSOCIATES IN SEPTEMBER OF 2020.
 - THERE IS NO 100 YEAR FLOODPLAIN ON SITE.
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 - THERE ARE NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES ON SITE.
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT. DATE

REVISIONS	
No.	DATE

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