

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: 1/9/20 **ONSITE SEWAGE DISPOSAL SYSTEM** P 567270
 APPROVAL DATE: 05/18/2020 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 14052 Gared Drive
 SUBDIVISION: Byrd Manor LOT: 3 TAX ID: 03-313646
 CONTRACTOR: South Carroll Backhoe EMAIL: sbackhoe@comcast.net
 CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618
 PROPERTY OWNER: Vijoy & Neesha Manickam EMAIL: _____
 OWNER ADDRESS: 5006 Finsbury Road, Rosedale, MD 21237 PHONE: 214-587-2423
 SEPTIC TANK SIZE (GALLONS): 2500 TANK MANUFACTURER: Mayer Bros
 PUMP MODEL: n/a PUMP SIZE n/a PUMP TANK CAPACITY: n/a

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 7 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>178 198'</u>	INLET DEPTH: <u>1.5 3'</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>12</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	<i>4/22/20 Not sure of specs on custom tank, not sure if contractor can make 1.5' inlet. Planning to extend trenches by 10', drop inlet to 3', waiting on tank measurements. (S)</i>	

ISSUED BY: Robert Freemon ISSUE DATE: 1/9/20 EXPIRATION DATE: 1/9/21

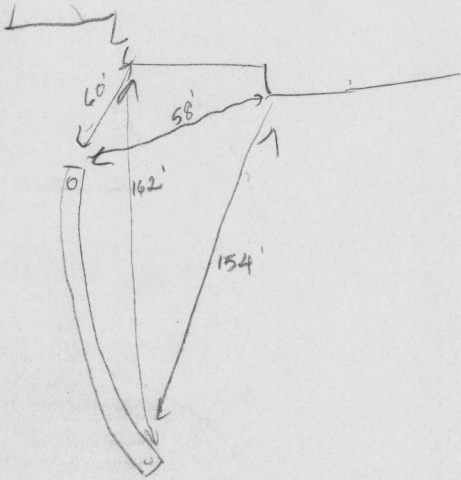
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE 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.**

279189279189

NOT TO SCALE

*see attached diagram



ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	3'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		200'
ABSORPTION AREA		400 SF
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

PRE-CONSTRUCTION:

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____
 MANUFACTURER MAYER BROS
 CAPACITY 2500 GAL
 SEAM LOC TOP
 TANK LID DEPTH 25" - 21"
 BAFFLES YES
 BAFFLE FILTER NO
 MANHOLE LOC FRONT/BACK
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED 2' SLOT
 DATE ON LID NO DATE

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 _____

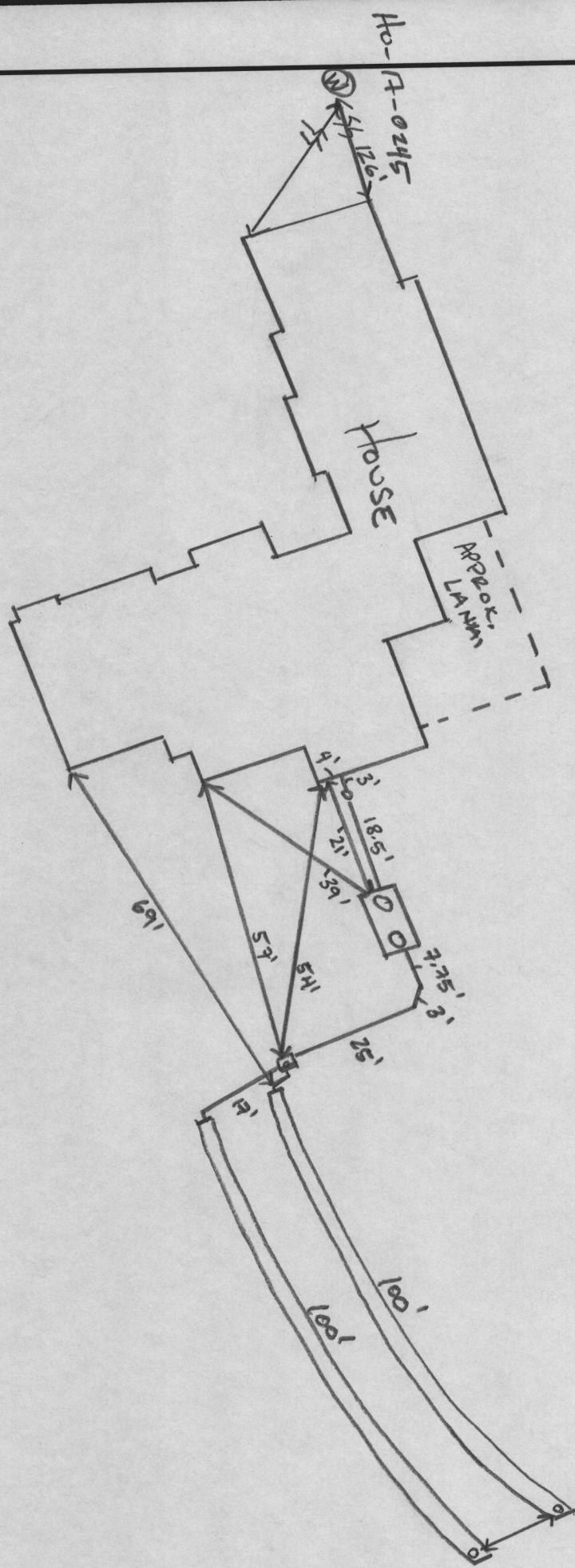
4/22/2020 Laid out two 100 ft trenches. May need to lower inlet to 3', depending on measurements of custom tank. (S)

INSTALLATION: 4/23/2020 Tank set. Will not backfill yet, need to conduct watertight test. One 100' trench constructed. (S) 05/15/2020 SHC AND D BOX INSTALLED. (P)
 05/18/2020 TRENCHES COMPLETE. D BOX LEVELED BY SPEED LEVEL.
 OK TO BACKFILL (P)

FINAL INSPECTOR

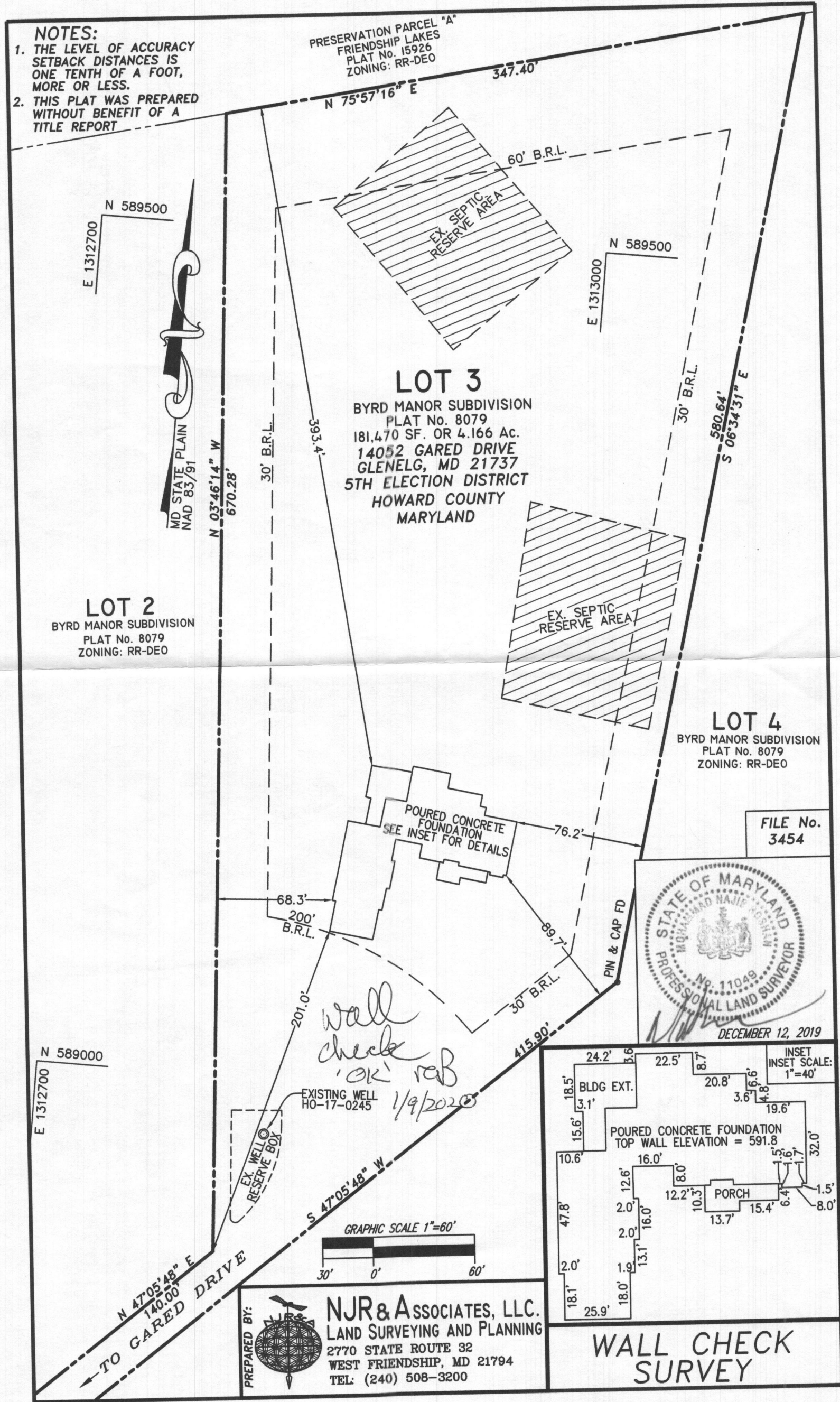
DATE OF APPROVAL

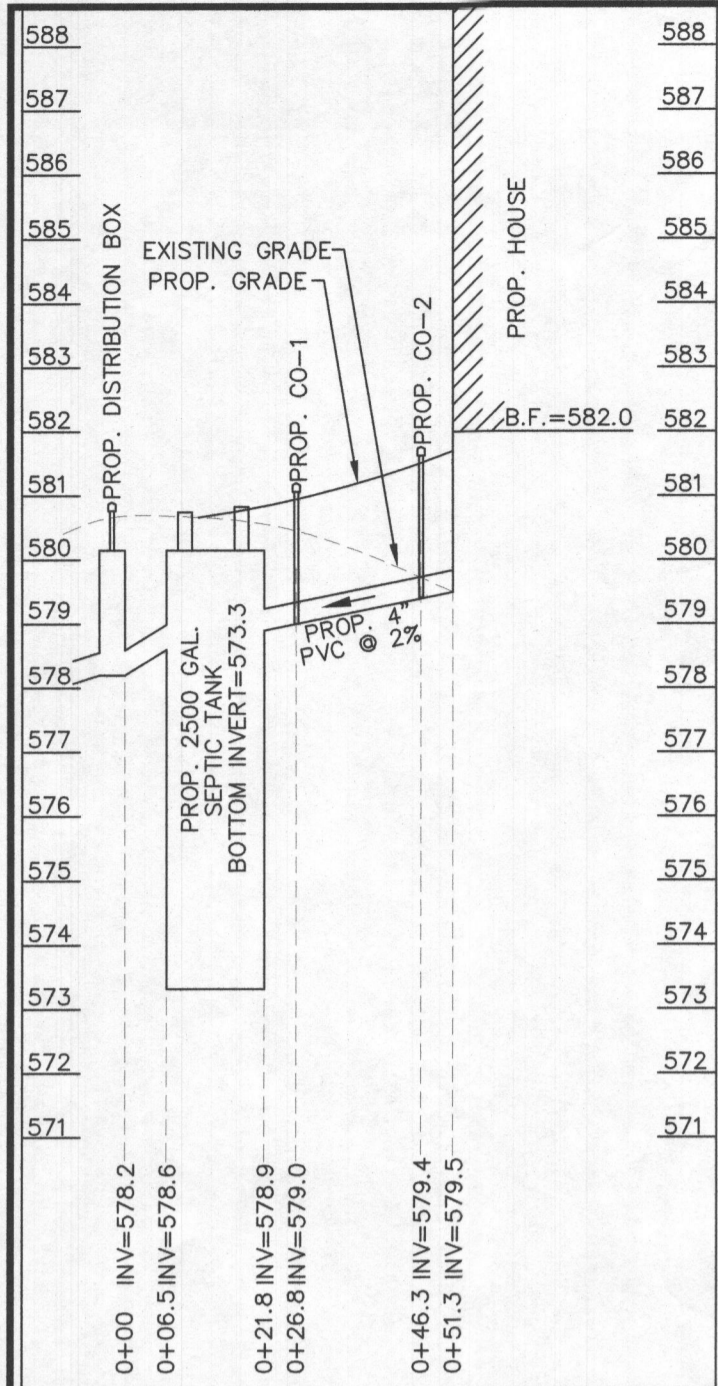
05/18/2020



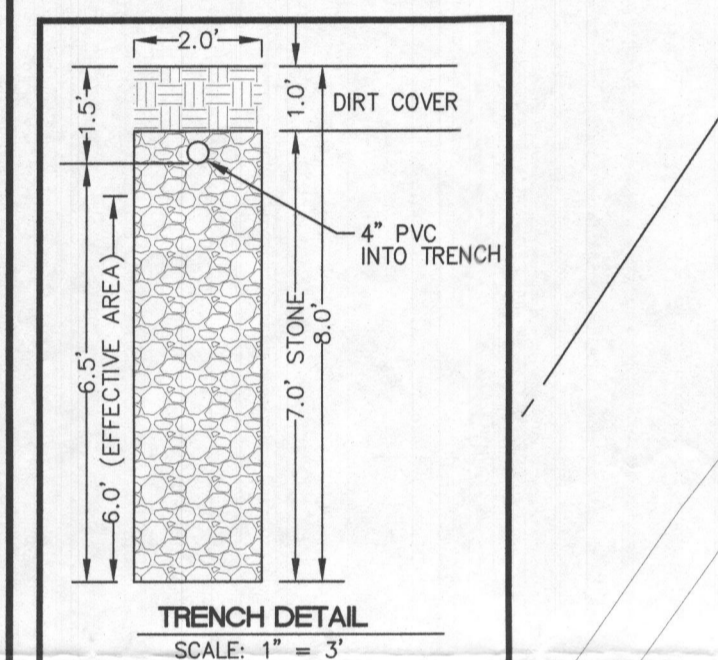
NOT TO SCALE

Wall check
'OK' reb 1/9/2020

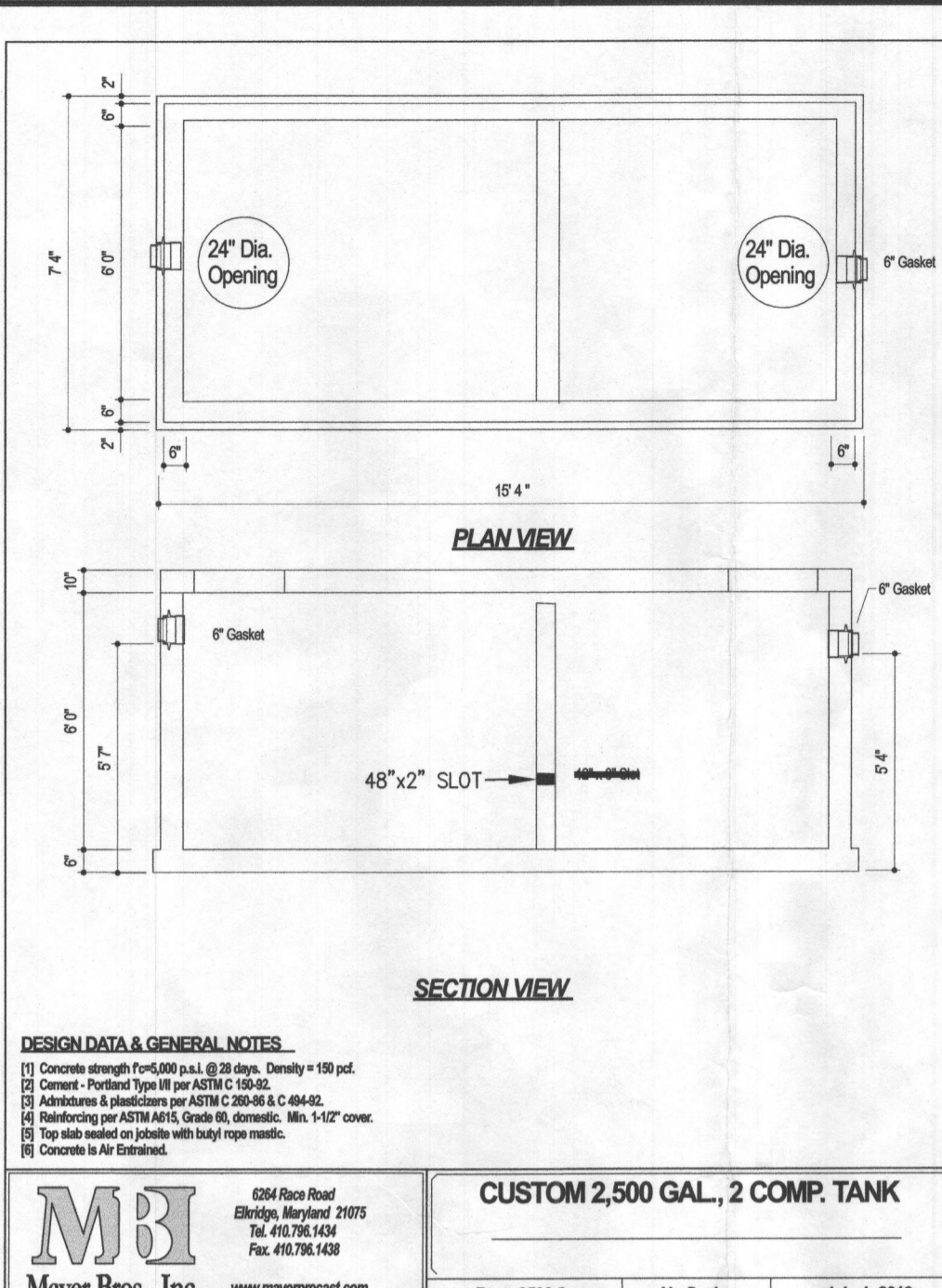




SEPTIC SYSTEM PROFILE
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'



TRENCH DETAIL
SCALE: 1" = 3'



CUSTOM 2,500 GAL., 2 COMP. TANK

DESIGN DATA & GENERAL NOTES:
1. Cover strength - 4000 lbs. @ 30\"/>

2. Cover - Portland Type III per ASTM C 506.
3. Inlet - 12\"/>

4. Outlet - 12\"/>

5. Distribution Box - 12\"/>

6. The site is based on a field run survey by NJR & Associates, Inc. dated 8/19/2019.
7. Contours in All Elevation.

Mayer Bros., Inc. 4241 Rock Road, Ellicott City, Maryland 21074
Tel: 410.781.1426 Fax: 410.781.1428
www.mayerprocast.com

Dwg. 2500.2 No Scale July 1, 2019

SEPTIC TRENCH CALCULATIONS FOR INITIAL AND TWO REPLACEMENT SYSTEMS:

ABSORPTION RATE FOR SITE=0.8
DRAINFIELD AREA: 7 BEDROOMS AT 1,050 GPD / 0.8 (ABSORPTION RATE)=1,312.5 SQ. FT.
SIDEWALL REDUCTION CREDIT: $WIDTH+2 = 2+2 = 4$
 $2+1+2(6) = 15$
LENGTH OF TRENCHES: $1,312.5 \text{ SQ. FT.} \times 0.27 = 354.375$
 $354.375 / 2 = 177.2 \text{ LINEAR FEET}$
2 TRENCHES OF 89 FEET IN LENGTH, 12 FOOT SPACED ARE PROVIDED

TRENCH	TRENCH LENGTH	INV. INTO TRENCH	BOTTOM OF TRENCH
1	89'	577.9	571.4
2	89'	576.2	569.7

LOT 2
BYRD MANOR SUBDIVISION
PLAT No. 8079
ZONING: RR-DEO

LOT 3
BYRD MANOR SUBDIVISION
PLAT No. 8079
181,470 SF. OR 4.166 AC.
ZONING: RR-DEO

LOT 4
BYRD MANOR SUBDIVISION
PLAT No. 8079
ZONING: RR-DEO

LOT 5
BYRD MANOR SUBDIVISION
PLAT No. 8079
ZONING: RR-DEO

SYMBOL	NAME/DESCRIPTION	TYPE	HYDROLIC
GgB	Glenelg loam, 3 to 8% slope	B	No
GgC	Glenelg loam, 8 to 15% slope	B	No
GmB	Glenville silt loam, 3 to 8% slope	C	Yes

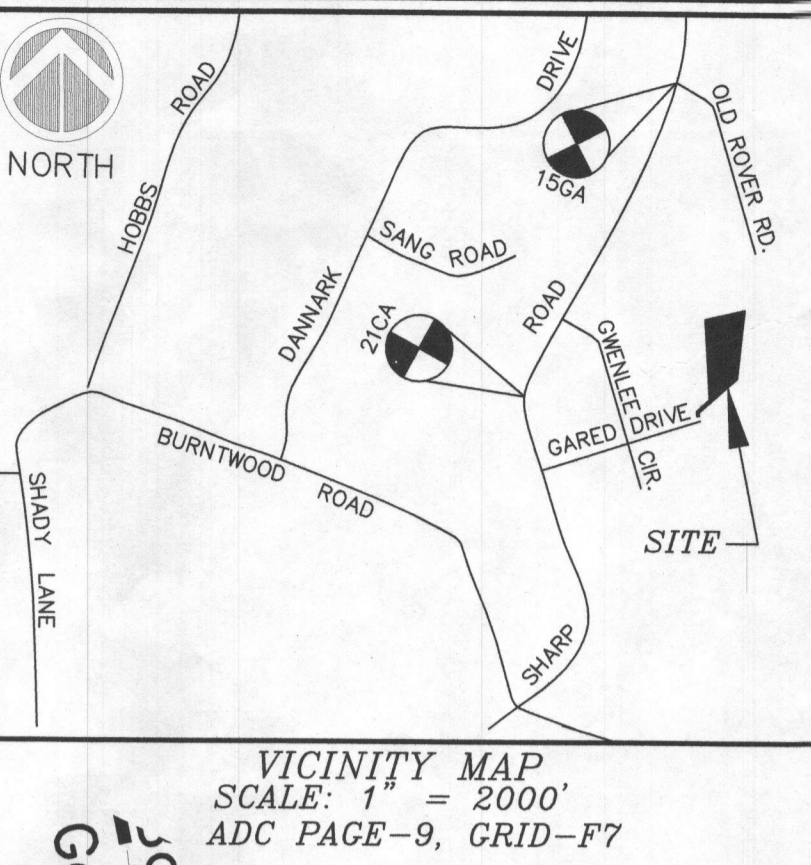
- GENERAL NOTES:
- ZONING: RR-DEO
 - PROPOSED SEWER - PRIVATE; PROPOSED WATER - PRIVATE
 - THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY NJR & ASSOCIATES IN JANUARY OF 2018.
 - THERE IS NO FLOODPLAIN ON SITE.
 - THERE ARE NO WETLANDS, STREAMS AND THEIR BUFFERS ON SITE.
 - THERE ARE NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES ON SITE.
 - TOTAL AREA WITHIN LOD = 49,124 SQ.FT.
 - WATERSHED = MIDDLE PATUXENT
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - CONTRACTOR TO MAINTAIN POSITIVE SLOPE AWAY FROM THE FOUNDATION OF THE HOUSE.

DEVELOPER
MUELLER HOMES
7520 MAIN STREET
Site 200
SYKESVILLE, MD 21784
(410) 549-4444

OWNER
VIJAY & NESSHA MANICKAM
5006 FINSBURY ROAD
ROSEDALE, MD 21237
(214) 587-2423

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE 11469, EXPIRATION DATE: 2/19/2021.

AUGUST 8, 2019
DATE



VICINITY MAP
SCALE: 1" = 2000'
ADC PAGE-9, GRID-F7

BYRD MANOR SUBDIVISION
LOT 3
PLAT NUMBER 8079
TAX MAP 15, GRID 19, PARCEL 19
GARED DRIVE
GLENELG, MD 21737
3RD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

PLAN PREPARED BY:
NJR & ASSOCIATES
Land Surveying and Planning
2770 STATE ROUTE 32
WEST FRIENDSHIP, MD 21794
TEL: (240) 608-3200

REVISIONS
1- REVISED PER HD MEMO
DATED 8/8/19.

Approved Septic System Plan
Howard County Health Department
Signature: [Signature]
Date: 8/19/2019

GRAPHIC SCALE 1"=30'
DATE: APR. 28, 2019
JOB NUMBER: 3454
FILE NUMBER: 3454-SITE
PLOTTED: AUG. 8, 2019
DRAWN BY: NR
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
SHEET 1 OF 1

MISS-UTILITY NOTE:
1. CONTACT MISS-UTILITY 72 HOURS BEFORE ANY TRENCHING.
(800) 257-7777.

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