



**Howard County
Health Department**

Maura J. Rossman, M.D., Health Officer

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

RECEIPT DATE: 11/4/21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570234

APPROVAL DATE: 01/26/2022 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 12397 KONDRUP DRIVE, FULTON, MD 20759

SUBDIVISION: BEAUFORT PARK, SECTION 4, AREA 2

LOT: 10

TAX ID:

05-351405

CONTRACTOR: Maryland Excavation Contractors LLC EMAIL: marylandexcavationcontractors@gmail.com

CONTRACTOR ADDRESS: 7 Winter Trail, Fairfield, PA 17320 PHONE: (340) 619-6196

PROPERTY OWNER: RAYMOND and EMILY LYNN

EMAIL:

OWNER ADDRESS: 8118 WESTSIDE BLVD., FULTON, MD, MD 20759

PHONE:

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER:

MAYER BROS., INC.

PUMP MODEL: GOULDS WE03

PUMP SIZE

0.3 Hp (WE0311M)

PUMP TANK CAPACITY: 1500-gallon

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE:

1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>115</u>	INLET DEPTH: <u>3.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.0</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 CLEANOUT IN SHC. PUMP & ALARM TEST MUST 'PASS' PRIOR TO FINAL APPROVAL OF SEPTIC SYSTEM INSTALLATION.	

ISSUED BY: R BRICKER

ISSUE DATE: 11/4/21

EXPIRATION DATE: 11/4/22

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 21003407

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


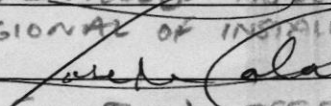



SEE ATT.

ROAD NAME

PRE-CONSTRUCTION:

11/17/2021 Stop work. Nov - SEE ATTACHED. 

INSTALLATION:

11/18/2021 HANDED NOV TO CONTRACTOR. WENT OVER CORRECTIVE ACTIONS. CONTRACTOR MADE TRS 3' WIDE IN ALL PLACES. OK TO BACKFILL FORCE MAIN AND TANKS. 11/19/2021 CONFIRMED TRENCH BLEV NOTATED ON ASBUILT PER NOV REMEDIATION. CONFIRMED 3.5' INLET. (PM) INLET IS NOT REMIDIED. TO MINIMIZE INSTALLER DAMAGE OK TO APPROVE 3.5' INLET. REINSPECT FILTER FABRIC.  11/23/2021 FILTER FABRIC INSTALLED. INLET IS 4.5' IN TWO PARALLEL TRENCHES. NOTIFIED MDE (REGIONAL OF INSTALLATION AND CORRECTIVE INCOMPETENCE. FINAL INSPECTOR  DATE OF APPROVAL 01/26/2022 SYSTEM SHOULD FUNCTION EFFECTIVE AREA IS @ 4.5'. NOTIFIED BUILDER OF NOV.  11/24/2021 SL INSTALLED  01/24/2022 LEFT PANEL CIRC 25/ CIRC 20 MOVE ELECTRICAL WIRING OUTSIDE RISER. AT SCREENS ON NO 

11/19/2021 PM
TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3' 3.5'-4.5' 7'

NUMBER OF TRENCHES 3

TOTAL LENGTH 177 F

ABSORPTION AREA 351 SF + 2.5' SIDE WALL

DISTRIBUTION BOX LEVEL PUMP

DISTRIBUTION BOX BAFFLE CONC.

DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER BABYLON

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH 2.5'

BAFFLES YES

BAFFLE FILTER -

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 10/08/2021

PUMP/SEPTIC TANK LEVEL YES

MANUFACTURER BABYLON

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH 2.5'

BAFFLES -

BAFFLE FILTER -

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED -

DATE ON LID 10/20/2021

NOT TO SCALE

Force MAIN
2" CU200 SDR21
200 PSI @ 73°F
ASTM D2241
PVC 1120

Lot 11

PROP LINE

D Box LINE
4" ASTM D2729

PROP LINE

Lot 9

100' METRICALL WELL ARE

HOUSE

DRIVE

100' METRICALL WELL ARE

HO-81-1456

KONDROV DRIVE

1:1.30

NOTICE OF VIOLATION

November 17th, 2021

***Maryland Excavation Contractors, LLC
7 Winter Trail
Fairfield, PA 17320***

CERTIFIED MAIL: ***Hand Delivered***

RE: Septic installation without a preconstruction meeting at 12397 Kondrup Drive (P570234)

Maryland Excavating Contractors LLC:

On November 17th, 2021 a site investigation was conducted at 12397 Kondrup Drive. At the time of investigation ***sewer house was installed, the septic tank and pump tank was set, the force main was installed, the distribution box was installed and 3 x 39' distribution trenches 7' deep were observed to be installed with no aggregate.*** At the time of investigation, we were able to conclude that the onsite sewage disposal system serving the house at 12397 Kondrup Drive was installed without a preconstruction meeting prior to any installation. A stop work order was issued on November 17th, 2021 at discovery and a verbal notice of violation was given; contractor transgressed the provision of new construction permit (P570234) "contractor must schedule a pre-construction inspection prior to the beginning of any installation." An immediate schedule of meeting for corrective action was scheduled for the following business day, November 18th, 2021.

Sec. 3.804. – General Provisions

(b) Responsibility. Any person who owns, **installs**, alters, or constructs an on-site sewage disposal system including, but not limited to, an owner, plumbing contractor, or sewage disposal system contractor, are jointly and severally responsible for compliance with this subtitle and for **fulfilling the requirements of the design for the construction, addition, or alteration of on-site sewage disposal systems approved by the approving authority.**

Sec. 3.806. – Permit Required

(a) Sewage Disposal Permit; Minor Septic Repair Permit.

(1) When required. Where a public sewage disposal system is not available and construction is contemplated for a building for human occupancy or use, or an addition to or alteration of any existing on-site sewage disposal system is proposed, the master plumber, disposal system contractor, or owner shall, prior to beginning any construction, make an application to the approving authority for a minor septic repair permit or an **on-site sewage disposal permit in**

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accordance with the requirements of this section and subsection 12.106(a) of the Howard County Code in order to perform the necessary installation or modification to the existing on-site sewage disposal system.

You are hereby ordered contact our office at 410-313-1771 within 15 days to schedule a meeting with the Howard County Health Department Well and Septic Program. Failure to comply will result in the issuance of a civil citation(s). Under Howard County Code, paragraph 12.112, each day this violation is allowed to occur is considered a separate offense.

If you believe that the condition described above is not and could not be a hazard to health, or that the Health Department is not acting in compliance with pertinent laws and regulations, you may request a formal hearing before the Board of Health within 15 (fifteen) days of receipt of this letter. All requests are to be made in writing and directed to the Executive Secretary of the Board of Health at the above address.

If you have any questions regarding this letter, please contact me at 410-313-1771.

NOTE: Contractor is scheduled for a meeting in field for corrective action on November 18th, 2021. Corrective action shall be as follows:

- 1) Confirm contour of installed trenches using laser level or transit
- 2) Ensure 3' width of 3 x 39' drain field trenches
- 3) Reinspect trench construction with aggregate, perforated pipe, 2" cover and filter fabric installed prior to backfilling
- 4) Confirm onsite system specifications per Howard County Code
- 5) Call in all remaining installation inspections no later than 0900 day of requested inspection date.



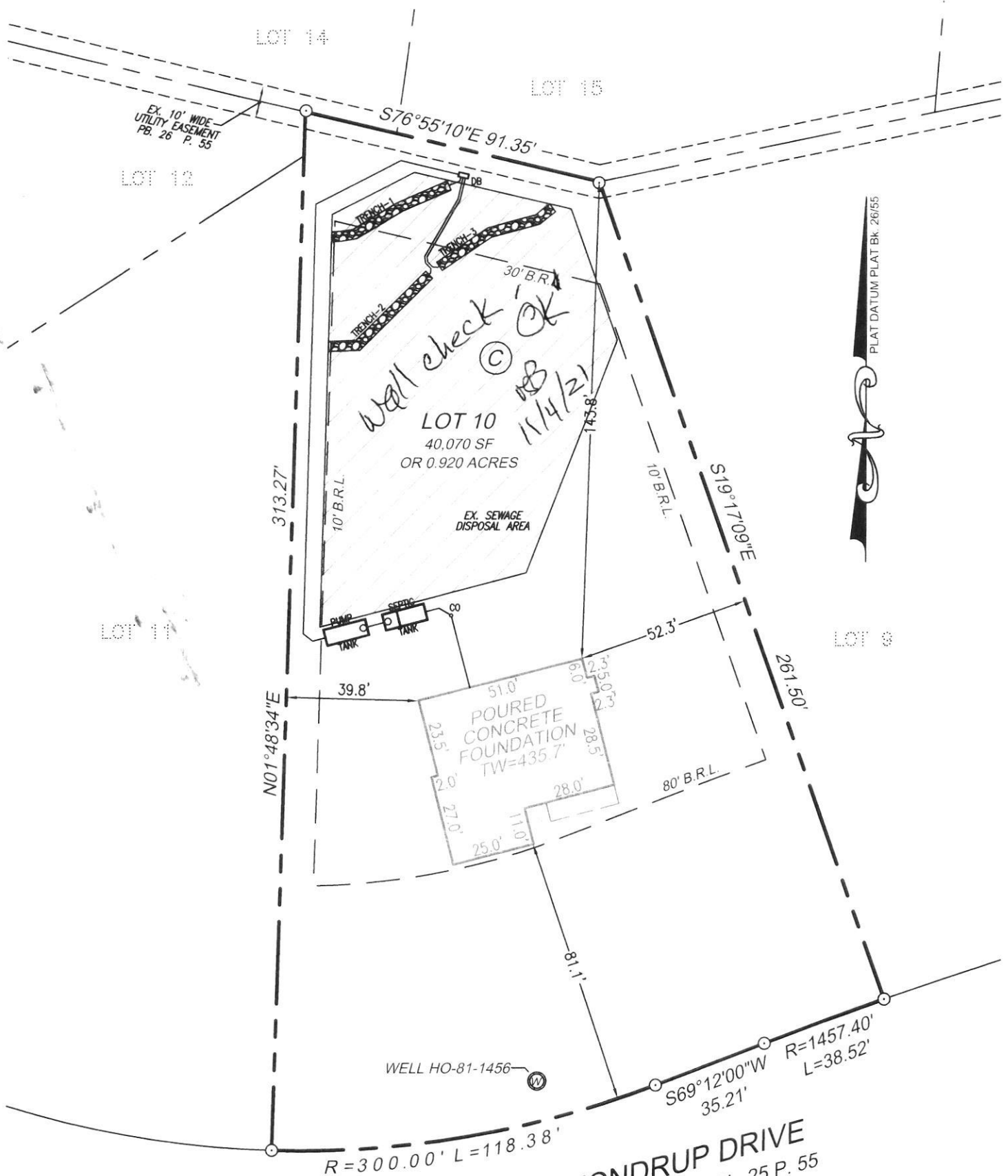
Joseph Cabahug

REHS/RS LEHS

Licensed Environmental Health Specialist

Well and Septic Program

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'



NOTE: THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. B.R.L.'S SHOWN PER PLOT PLAN.

THEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN; THAT THIS DOCUMENT WAS 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.

ERIC DAVID SALMI
PROFESSIONAL LAND SURVEYOR
LICENSE NO. 21639
EXP. DATE: JANUARY 3, 2022

DATE

11/4/2021

KONDRUP DRIVE
(50' R/W) PLAT Bk. 25 P. 55

SCALE 1"= 40'	DATE 11/04/2021
DRAWN BY J.A.P.	CHECKED BY E.D.S.
PLAT NUMBER P.B. 26, P.55	JOB NUMBER 47457

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

WALL CHECK DRAWING
12397 KONDRUP DRIVE
BEAUFORT PARK
SECTION FOUR AREA TWO
LOT 10, BLOCK C
P.B. 26 P. 55
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SAVAGE STONE, LLC

(301) 953-8973

8420 Washington Blvd. * Jessup, MD 20794

Scale:2

TKT: 1723998

Cust#: CASH

11/17/2021

CASH

8:24:10AM

Job#: DELCON DELCON

462 SKI LANE, MILLERSVILLE

TRK#: 128E - PLUMMER & SON-CARL

* P. T.

Zone#: HC03 - SAVAGE DELIVERY ZONE	Gross:	68940
P.O.#: MD EXCAVAT CONTR	* Tare:	25620
Proj#:	Net:	43320
Mat'l#: 0022-# 2 STONE	TONS:	21.66

	Loads	Tons
Job/Daily:	3	64.90
Job/Total:	156	3,205.56

MAT'L PRICE:	22.50/ton	MAT'L AMT:	487.35
HAUL RATE:	5.28/ton	HAUL AMT:	116.16
FUEL	15.0000	FEE AMT:	17.42
TAX RATE:	6.0000 % - MD	SALES TAX:	29.24
		TOTAL CHARGE:	650.17

Directions:

RUSTY 301-748-6464

WEIGHMASTER: Stacey Hawke

We exercise No Control Over Delivery of Our Products & We Won't
be Held Liable for Any Damage to Person or Property.

Material Safety Data Information Available Upon Request.

SAVAGE STONE, LLC

(301) 953-8973

8420 Washington Blvd. * Jessup, MD 20794

Scale:2

TKT: 1724064

Cust#: CASH

11/17/2021

CASH

9:36:11AM

Job#: DELCON DELCON

462 SKI LANE, MILLERSVILLE

TRK#: 128E - PLUMMER & SON-CARL

* P. T.

Zone#: HC03 - SAVAGE DELIVERY ZONE⁺ Gross: 68700

P.O.#: MD EXCAVAT CONTR * Tare: 25620

Proj#: Net: 43080

Mat'l#: 0022-# 2 STONE TONS: 21.54

	Loads	Tons
Job/Daily:	5	108.23
Job/Total:	158	3,248.89

MAT'L PRICE: 22.50/ton

MAT'L AMT: 484.65

HAUL RATE: 5.28/ton

HAUL AMT: 116.16

FUEL 15.0000

FEE AMT: 17.42

TAX RATE: 6.0000 % - MD

SALES TAX: 29.08

TOTAL CHARGE: 647.31**Directions:**

RUSTY 301-748-6464

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*Material Safety Data Information Available Upon Request.***Have A Great Day. Please Drive Safely!**

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Job/Daily:	5	108.23
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SAVAGE STONE, LLC

(301) 953-8973

8420 Washington Blvd. * Jessup, MD 20794

Scale:2

TKT: 1723921

Cust#: CASH

11/17/2021

CASH

6:57:50AM

Job#: DELCON DELCON

462 SKI LANE, MILLERSVILLE

TRK#: 128E - PLUMMER & SON-CARL

* P. T.

Zone#: HC03 - SAVAGE DELIVERY ZONE

Gross: 68580

P.O.#: MD EXCAVAT CONTR

* Tare: 25620

Proj#:

Net: 42960

Mat'l#: 0022-# 2 STONE

TONS: 21.48

	Loads	Tons
Job/Daily:	1	21.48
Job/Total:	154	3,162.14

MAT'L PRICE: 22.50/ton

MAT'L AMT: 483.30

HAUL RATE: 5.28/ton

HAUL AMT: 116.16

FUEL 15.0000

FEE AMT: 17.42

TAX RATE: 6.0000 % - MD

SALES TAX: 29.00

TOTAL CHARGE: 645.88

Directions:

RUSTY 301-748-6464

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8420 Washington Blvd. * Jessup, MD 20794

Scale:2

TKT: 1723998

Cust#: CASH

CASH

11/17/2021

8:24:10AM

Job#: DELCON DELCON

462 SKI LANE, MILLERSVILLE

TRK#: 128E - PLUMMER & SON-CARL

* P. T.

Zone#: HC03 - SAVAGE DELIVERY ZONE

Gross: 68940

P.O.#: MD EXCAVAT CONTR

* Tare: 25620

Proj#:

Net: 43320

Mat'l#: 0022-# 2 STONE

TONS: 21.66

	Loads	Tons
Job/Daily:	3	64.90
Job/Total:	156	3,205.56

MAT'L PRICE: 22.50/ton

MAT'L AMT: 487.35

HAUL RATE: 5.28/ton

HAUL AMT: 116.16

FUEL 15.0000

FEE AMT: 17.42

TAX RATE: 6.0000 % - MD

SALES TAX: 29.24

TOTAL CHARGE: 650.17**Directions:**

RUSTY 301-748-6464

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1. THE EXISTING TOPOGRAPHY SHOWN HEREIN IS TAKEN FROM FIELD ROW SURVEY WITH 2" CONTOUR INTERVALS PREPARED BY VOGEL ENGINEERING AND TEAMONS GROUP DATED FEBRUARY 16, 2021. INFORMATION IS SUPPLEMENTED WITH CURRENT HOWARD COUNTY GIS DATA.
2. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN, EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE AREAS WITHIN 200' OF THE PROPERTY SHALL BE PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN USING ALL REASONABLE EFFORTS.
3. THE LOT SHOWN HEREIN COMPLETES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE HOWARD COUNTY DEPARTMENT OF HEALTH.
4. 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.
5. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE FEET. GREATER EARTH COVER WILL REQUIRE A PERCOLATION CERTIFICATION BEARING.
6. IF A REPLACEMENT WELL IS INSTALLED WITHIN (10) FEET OF THE DRIVEWAY, BOLLARDS OR OTHER IMMovable OBJECT SHALL BE PLACED BETWEEN THE REPLACEMENT WELLS TERMINAL AND THE DRIVEWAY.

INITIAL SYSTEM:
5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
625 SQ. FT. / 3 (TRENCH WIDTH) x .55 (SIDEWALL REDUCTION) = 115 LINEAR FEET
117 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
(3 TRENCHES OF 39 FEET IN LENGTH)

5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x .55 (SIDEWALL REDUCTION) = 115 LINEAR FEET
 116 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM
 (2 TRENCHES OF 58 FEET IN LENGTH)

5 BEDROOMS AT 75gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x .55 (SIDEWALL REDUCTION) = 115 LINEAR FEET
 116 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM
 (2 TRENCHES OF 58 FEET IN LENGTH)

INITIAL SYSTEM TRENCH INFO.				
TRENCH	TRENCH LENGTH	INV. INTO TRENCH	BOTTOM OF TRENCH	EXISTING GROUND
1	39'	434.25	430.25	437.25
2	39'	432.64	428.64	435.64
3	39'	432.65	428.65	435.65

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS IN THIS NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECODIFICATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.



PROPERTY LINE

ADJACENT PROPERTY LINE

RIGHT-OF-WAY LINE

EXISTING EDGE OF PAVING

EXISTING WELL

EXISTING TREE LINE

EXISTING SEWAGE
SEWAGE DISPOSAL AREA

EXISTING 10' CONTOUR

EXISTING 2' CONTOUR

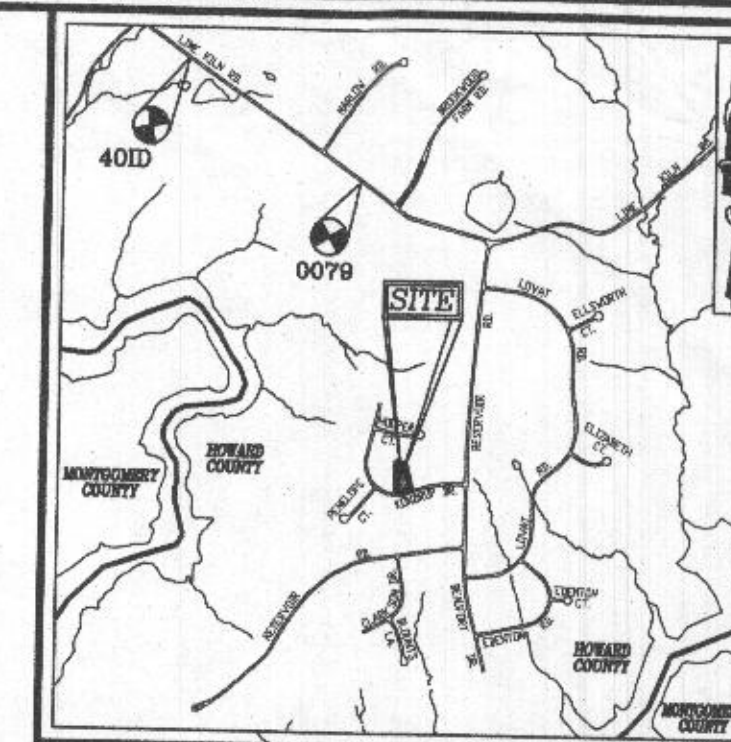
SOLLS

PROPOSED 10' CONTOUR

PROPOSED 2' CONTOUR

PROPOSED SPOT ELEVATION

PASSED PERC. TEST



VICINITY MAP

SCALE: 1"=2,000'
ADC MAP COORDINATE: 5051-JE

BENCHMARKS

HOWARD COUNTY BENCHMARK 401D (CONC. MON.)
N 541312.56 E 1325896.28 ELEV. 367.00
LOCATION: BY #12639 LIME KILN ROAD

HOWARD COUNTY BENCHMARK 0079 (CONC. MON.)
N 540070.96 E 1327702.79 ELEV. 426.13
LOCATION: LIME KILN ROAD EAST OF BROWNS
BRIDGE ROAD

Approved Septic System Plan
Howard County Health Department
1500-gal Septic Tank
w/ 1500-gal Pump Tank
± Grounds WE Ø3 pump or equiv.
[Signature] S/P/2021
Signature Date
Gravity Distribution
for 5-Bed room SFD

OWNER

RAY LYNN
EMILY LYNN
8118 WESTSIDE BLVD
FULTON, MD 20759
PHONE: (443) 250-5483

DEVELOPER

GREENLEAF BUILDERS
C/O STEPHEN C. FORNEY
1601 JACKSON STREET
BALTIMORE, MD 21230
PHONE: (443) 250-5483

[illegible]

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

12397 KONDRUP DRIVE
FULTON, MD 20759

L. 20235 / F. 436
TAX MAP: 45 GRID: 12
5TH ELECTION DISTRICT

LOT: 1
PARCEL: 4
ONED: RR-DE
NTY: MARYAN

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: RH

DRAWN BY: JIM

CHECKED BY: _____

DATE: MAY 202

SCALE: AS SHOWN

SCALE:	AS SHOWN
W.D. NO.:	1715

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS

WERE PREPARED OR APPROVED BY ME,
THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE OF

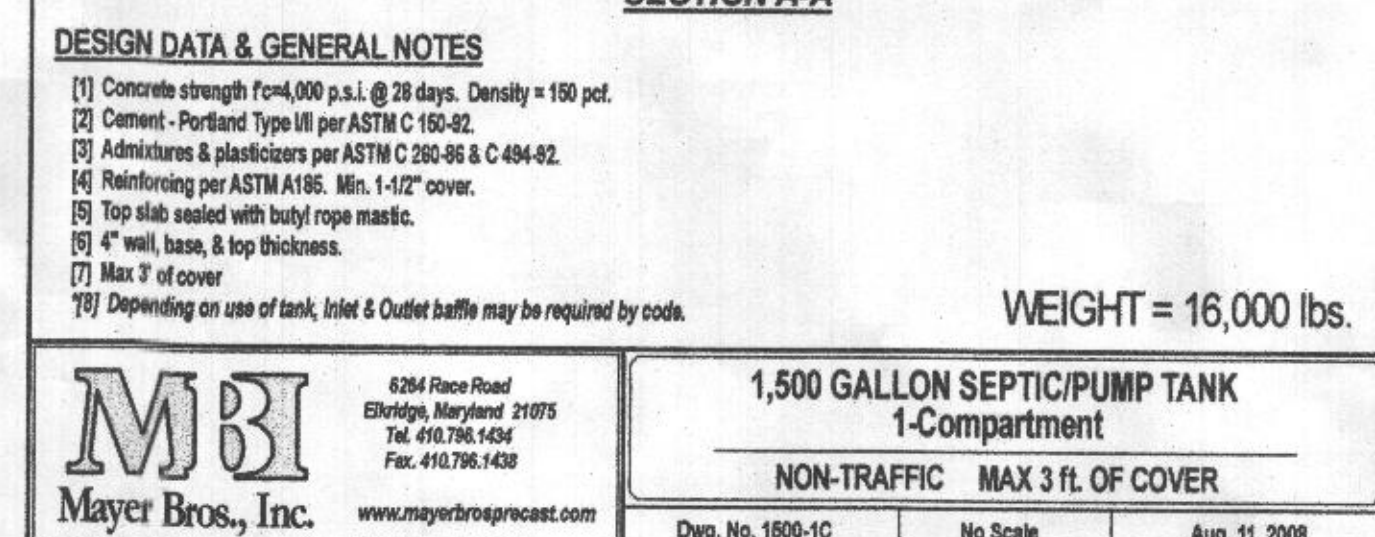
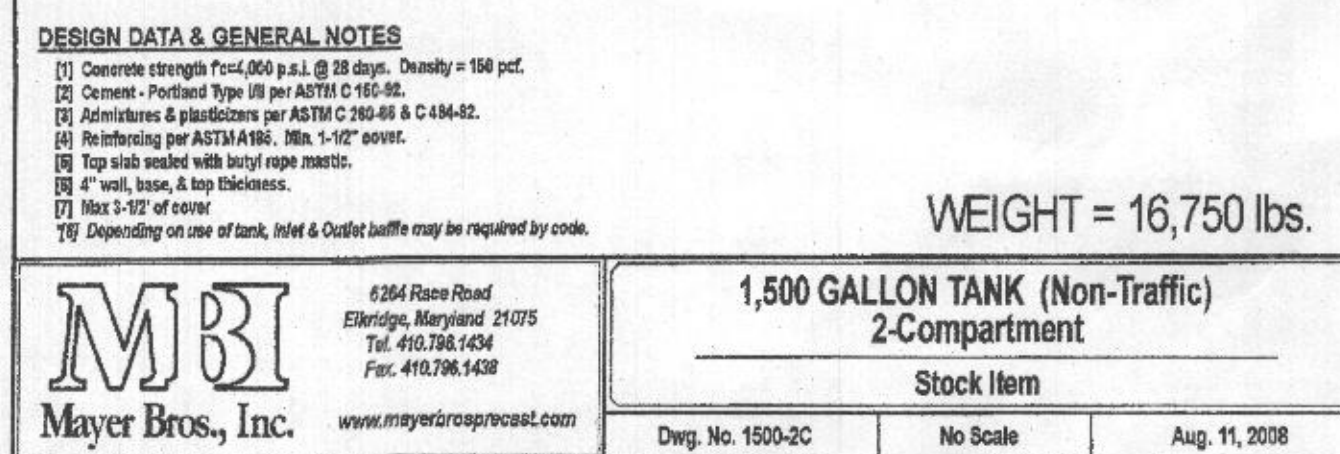
OF MARYLAND, LICENSE NO. 16193
EXPIRATION DATE: 09-27-2022

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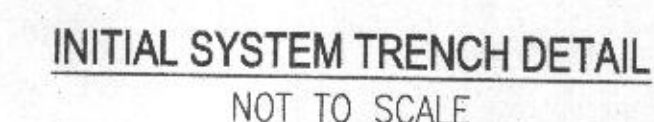
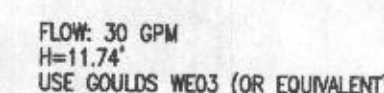
1 SHEET OF 2

_____ OF _____



Goulds Water Technology

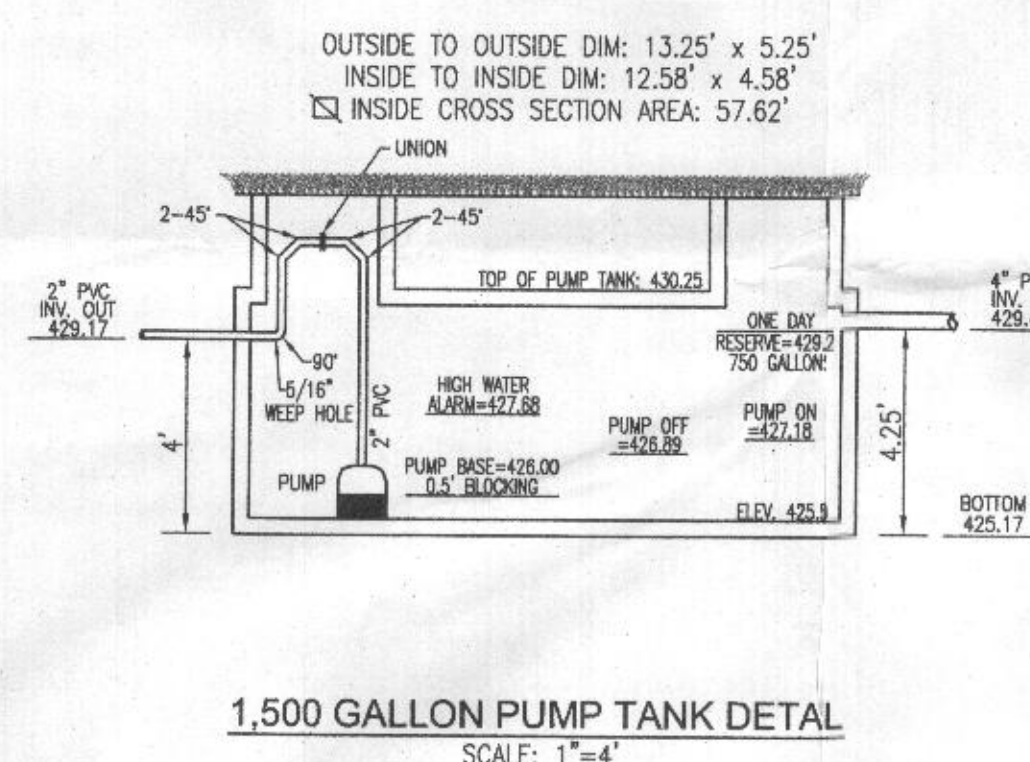
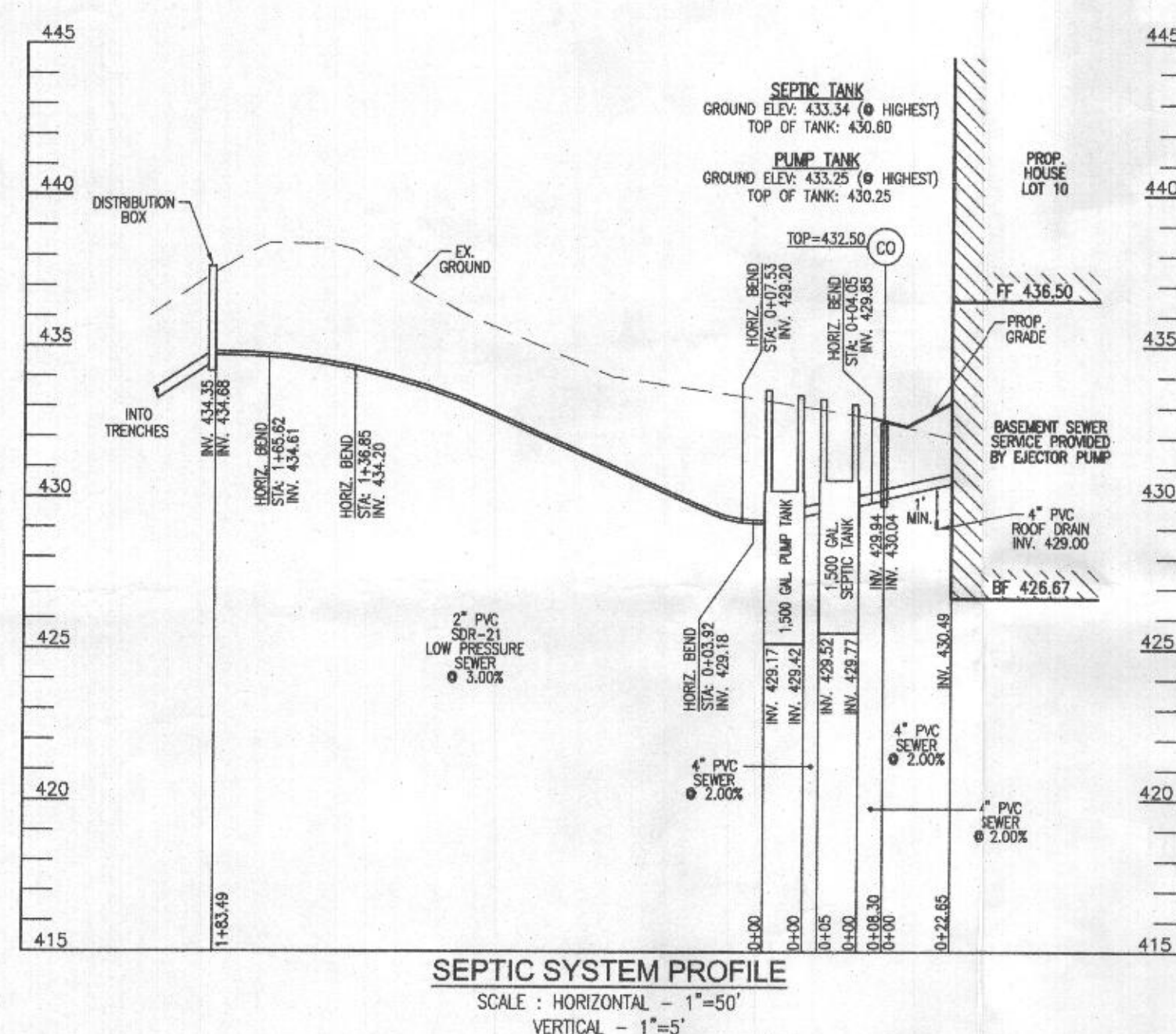
AGENCY LISTINGS



Approved Septic System Plan
Howard County Health Department
150-gal Septic Tank w/150-gal Pump Tank
2 SOLIDS WEGS pump or equivalent
to Gravity distribution for 5-bed room SFN
Briak 5/25/2021
Signature Date

OWNER
RAY LYNN
EMILY LYNN
8118 WESTSIDE BLVD
FULTON, MD 20759
PHONE: (443) 250-5483

DEVELOPER
GREENLEAF BUILDERS
C/O STEPHEN C. FORNEY
1601 JACKSON STREET
BALTIMORE, MD 21230
PHONE: (443) 250-5483



NO. BEDROOMS = 5
DESIGN FLOW = $Q = 150 \text{ GPD} = 750 \text{ GPD}$
DESIGN: 1/6 DESIGN FLOW = 125 GPD
125 GALLONS/7.48 FT³/GAL. = 16.71 FT³
 $16.71 \text{ FT}^3 / 57.52 \text{ SF} \times 0.29 =$
ONE DAY RESERVE: 76.00 GALLONS/7.48 FT³/GAL. = 100.27 FT
100.27 FT³/57.52 SF = 1.74 FT

TDM (FRICTION + STATIC)
FRICTION FITTINGS: UNION: $1 \times 2 = 2$
 45° ELBOW (+HV): $8 \times 8 = 64$
 90° ELBOW: $1 \times 7 = 7$
FITTING EQ. LENGTH: 73.0 FT
PIPE LENGTH: 183.5 FT
TOTAL LENGTH: 256.5 FT

FRICTION LOSS (30 GPM): $(1.54) / (256.5) / 100 = 3.95'$
STATIC: $434.88 - 426.89 \text{ (PUMP EFF)} = 7.99'$
TDH: $7.99 + 3.95 = 11.94'$
USE GEQUA WEDS (OR EQUIVALENT)

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

12397 KONDRUP DRIVE
FULTON, MD 20759

L. 20235 / F. 436
TAX MAP: 45 GRID: 12
5TH ELECTION DISTRICT

LOT: 10
PARCEL: 48
ZONED: RR-DEO
COUNTY: MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

STATE OF MARYLAND
ROBERT HARRIS VOGEL
PROFESSIONAL ENGINEER
No. 16193
5/13/21

ROBERT H. VOGEL, PE No.16193

DESIGN BY: _____ RHV
DRAWN BY: _____ JMR
CHECKED BY: _____ RHV
DATE: _____ MAY 2021
SCALE: _____ AS SHOWN
W.O. NO.: _____ 47457

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AS
THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. 15193
EXPIRATION DATE: 09-27-2022

2 SHEET OF 2