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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, W.D., Health Officer

4. 121-20 ONSITE SEWAGE DISPOSAL SYSTEM

P 542887

THE CETT I D						
APPROVAL D	DATE: 2/3/20158)	ERMIT	CONST	RUCTIO	<u>N</u> A	
PROPERTY ADDRESS: 12201 MAYAPPLE DRIVE, SYKESVILLE, MD 21784						
SUBDIVISION	: WALKER MEADOWS			LOT: 22	TAX ID:	03-601580
CONTRACTO	R: SOUTH CARROLL BA	CKHOE, INC	•	EMAIL:		
CONTRACTOR	ADDRESS: 4410 SALEM	BOTTOM RO	DAD, WESTMINST	ER, MD 2115	7 PHONE:	(410)875-4197
PROPERTY OWNER: NVR, INC. EMAIL: janastas@nvrinc.com						
OWNER ADDRESS: 9720 PATUXENT WOODS DRIVE, COLUMBIA, MD 21046 PHONE: (410)379-5956						
SEPTIC TANK S	IZE (GALLONS): 1500		TANK MANUFA	CTURER:	Babylon Vault	
PUMP MODEL:	ZOELLER 292/4292	PUMP SIZE	0.5 hP	PUMP T	ANK CAPACITY: _	1500
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8						
	LINEAR FEET REQUIRED:	156			INLET DEPTH:	2.0
TRENCHES:	TRENCH WIDTH:	_		MAXIMU	М ВОТТОМ DEPTH:	6.0
į	MINIMUM SPACE BETWEEN TRENCHES:	10	EF	FECTIVE AREA	BEGINNING DEPTH:	3.0
LOCATION: PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.						
NOTES:	INSTALL THE SHC WITH AT LEAST ONE CLEANOUT. SYSTEM MUST PASS A PUMP & ALARM TEST PRIOR TO FINAL APPROVAL OF SEPTIC PERMIT AND SUBSEQUENT TO HEALTH DEPARTMENT RELEASE OF USE AND OCCUPANCY					

ISSUE DATE: 5/29/2020 EXPIRATION DATE: 5/12/2021 ISSUED BY: R BRICKER

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 BISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

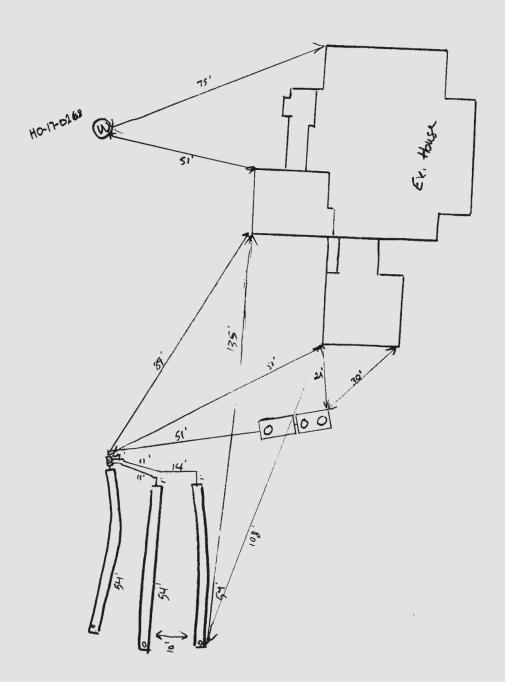
ELECTRICAL PERMIT ISSUED E n.a.

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.

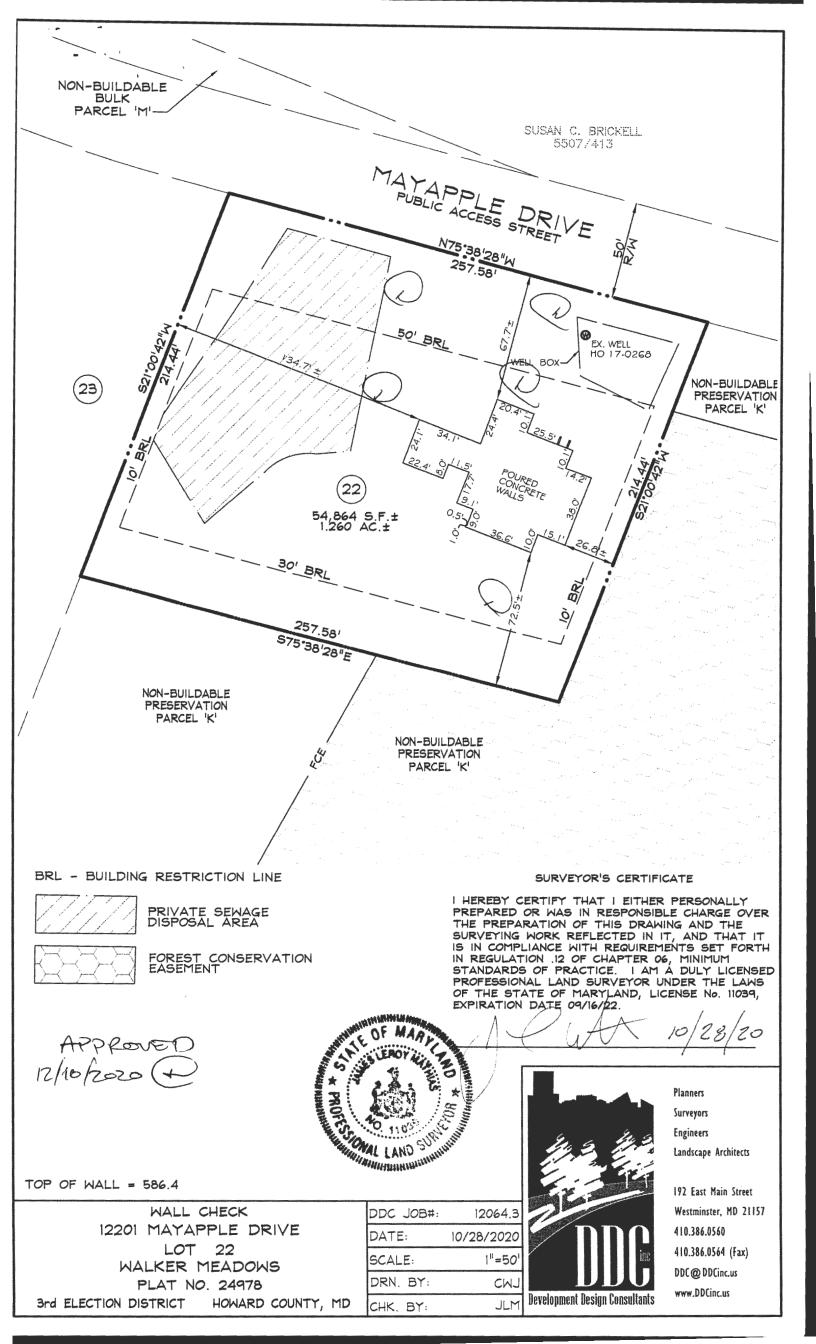
> PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE	TRENCH/DRAINFIELD DATA
	WIDTH INLET BOTTOM
	3' 2' 4'
	NUMBER OF TRENCHES3
	TOTAL LENGTH
	ABSORPTION AREA 486 sq ft + sidewall
	DISTRIBUTION BOX LEVEL NA
	DISTRIBUTION BOX BAFFLE YES
	l
	DISTRIBUTION BOX PORT
	CERTIC TANK DATA
	SEPTIC TANK DATA SEPTIC TANK 1 LEVEL ULS
	MANUFACTURER BUBYION
* cel attached	CAPACITY 1500 GAL
Kar he a	SEAM LOC
a Dive	TANK LID DEPTH 2
y sel	BAFFLES Gack
	BAFFLE FILTER
	MANHOLE LOC front + 1) 2 CK 6" PORT LOC
	WATERTIGHT TEST
	DATE ON LID 11. 9.20
	i
	PUMP/SEPTIC TANK LEVEL 46
	MANUFACTURER Babulua
	CAPACITY 1506 GAL
	SEAM LOC
	TANK LID DEPTH
	BAFFLES FOOT
	BAFFLE FILTER
	MANHOLE LOC
	6" PORT LOC
	WATERTIGHT TEST
	SLOTTED NO
ROAD NAME	DATE ON LID 9-20-26
PRE-CONSTRUCTION:	(6)
12/15/2020 Laid out 3×52' trenches according to	plan. (1)
	/
INSTALLATION: 12/15/2020 Septic tank and pump tank set. (12/1020 UPPER & MID THENEH COMPLETE. REINSP.	<u>sp</u>
RIZI/2020 UPPER & MID THENEH COMPLETE. REMSP.	DBOX + FM. (2)
12/12/2000 D. H. Lord appropriate and in weekel to	I have Pain on to A- Plater
12/22/2020 Bottom trench constructed and connected to 1/28/21-PSA fails to meet Standards, alarm in the house works and	d-nox . We in effect for 1/H
1/20/21 - PSA fails to meet Standards, alarm in the house works and	the pump ralarm each have
their own circuit but the wiring for the pump has not been	completed (DD (rainspect for ps A)
2/3/2020 Alarm in basevent moved to wall from ceiling obs. to	function, rump obs. 10
function, water flowing in d-box (57)	
FINAL INSPECTOR Thomas DATE OF APPRO	VAL 2/3/2021
	7/200



Howard County Health Department

SEWAGE DISPOSAL PERM		10-313-2640 P-
PERMITTEE		
LOCATION		
	Department Approval Appears On	
POST THIS CARD WHERE STOP ALL CONSTRUCTION ON SEW DISPOSAL SYSTEM AND CONTACT H DEPARTMENT BEFORE CONTINUING	AGE IEALTH	OM ROAD
WORK IS SATISFACTORY, CONTINUE	Inspector	Date
	Inspector	Date
FINAL INSPECTION MADE, COVER ALL WORK		



KING & SONS

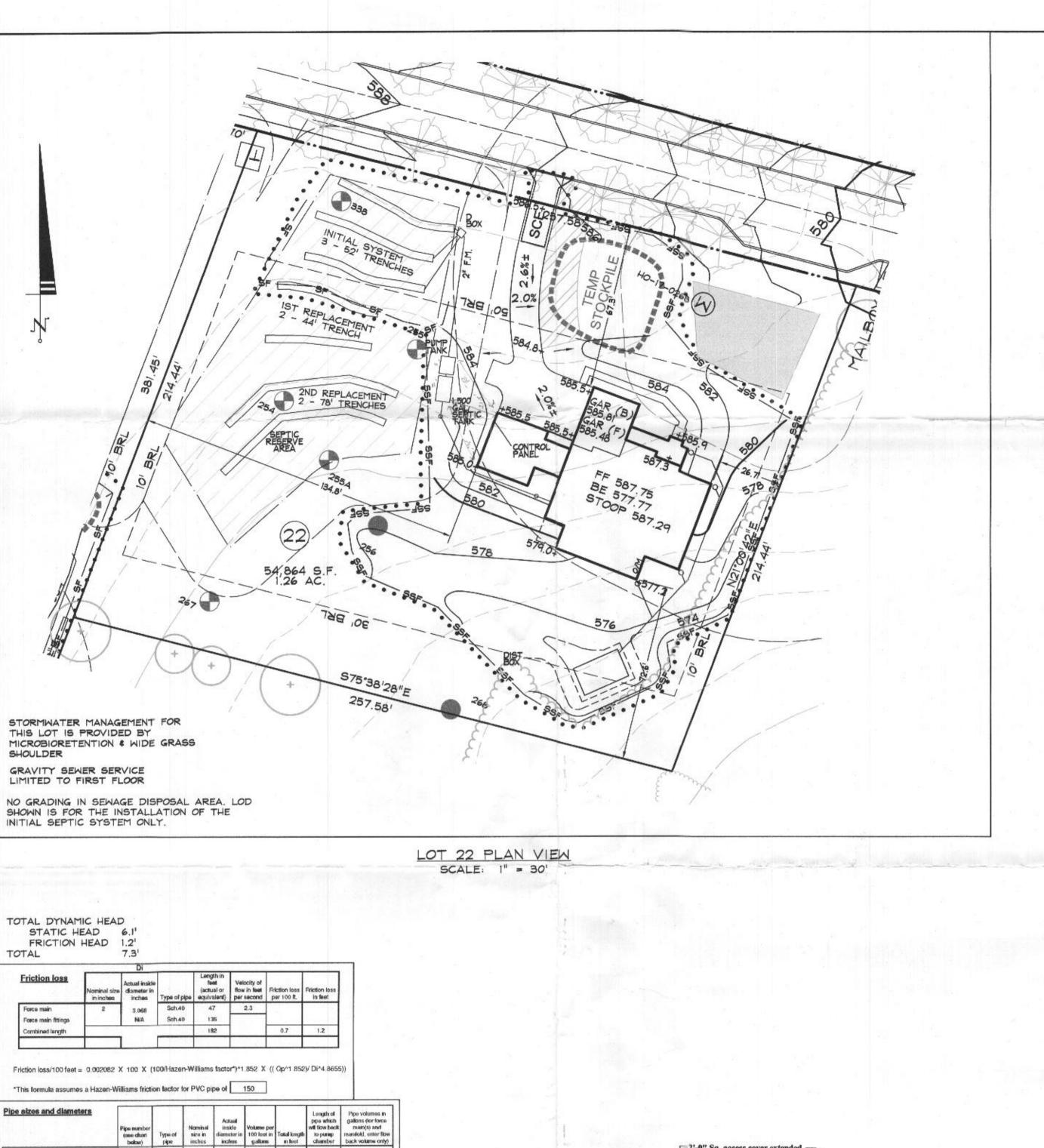
Liquid Waste Removal
P.O. Box 447
MANCHESTER, MD 21102
(301) 924-4218 (301) 253-9640
(410) 374-8859

CUSTOMER'S	S ORDER NO. PHONE	DATE	.9.1	\$
NAME		1003	-1-1-	
ADDRESS	1450 Long Corner F		gage - New Auditorial general regular contracts	A CONTRACTOR
SOLD BY	CASH C.O.D. CHARGE ON ACCT MDSE. RETD.	PAID OUT		
QTY.	DESCRIPTION	PRICE	AMO	TNUC
a	Septic Service a 235 %		470	Ou
	Digging Fee			
	Drain & Sewer Cleaning			
	Backhoe Service		The same and the s	
	Grease Traps			
12. 340.00	Septic Inspection/Certification			
	Septic Tank Extensions			
	Service Charge			
	PAYMENT DUE UPON RECEIPT		The state of the s	
Ananous creating the state of t	lumped 2 drywells 1 spptict	eK-		
	P.O CK 9729		alanging large of the second	
ala dia gani dia manda 1 g			and all the Paristance and and	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
	THERE WILL BE A \$35.00 CHARGE FOR ANY RETURNED CHECKS.	TAX		
RECEIVED BY		TOTAL	470	00

All claims and returned goods MUST be accompanied by this bill.

26113

Thank You



Force main

Volume to be pumped per pump cycle based on pipe volume

Volume of force main which will flow back between pump cycles =

PUMP CHAMBER SPECIFICATIONS

Pump chamber volume (available for storage) =

Pump chamber type [Enter "R" for rectangular or "C" for circular].

A - Cross-sectional area : For "C", 3.142 X (1/2L)*2 For "R", L X W =

H - Interior tank height (height to inlet unless otherwise approved) =

DOSE INFORMATION/VOLUME CALCULATIONS

Pump off float setting (set so that pump remains submerged) =

Height of storage remaining above high water alarm = H - Ha =

Ha - High water alarm setting = pump on float setting + 6 inches

Distance reg'd. b/n on and off floats = (Vc X 231 cubic inches per gallon) / A =

Pump on float setting = off float setting + distance b/n on and off floats =

Height of storage above high water alarm required for ONE DAY's storage =

Height of storage above high water alarm required for a HALF DAY's storage =

Vf - Force main and manifold flow back volume =

Elevation of inside bottom (floor) of pump chamber =

Eo - Pump off float setting equates to an elevation of

STORAGE/PUMP REQUIREMENTS

[X] Configuration is acceptable with a single pump

[X] Configuration is acceptable with duplex pumps

Pump chamber does not provide adequate storage

Vt - Actual (usable) tank volume = A X H / 231cubic inches per gallon) =

Minimum Dose (at least 1/6 of design flow)

L - Interior tank length/diameter =

W - Interior tank width/diameter =

pR - Pump riser height =

Vc - Volume of Force Main =

FLOAT SETTINGS

Pump height =

8.2 gallons

125 gallons

151 Inches 55 Inches

8305 sq. inches

47 inches

1689.8 gallons 6 inches

8.20 gallons

8.20 gallons

6 inches

22 inches

3.5 Inches

25.5 inches

31.5 inches

15.5 inches

557.3 gallons

20.9 Inches

10.4 inches

22 inches

which equates to

Pump riser height

Pump on float setting

Pump off float setting

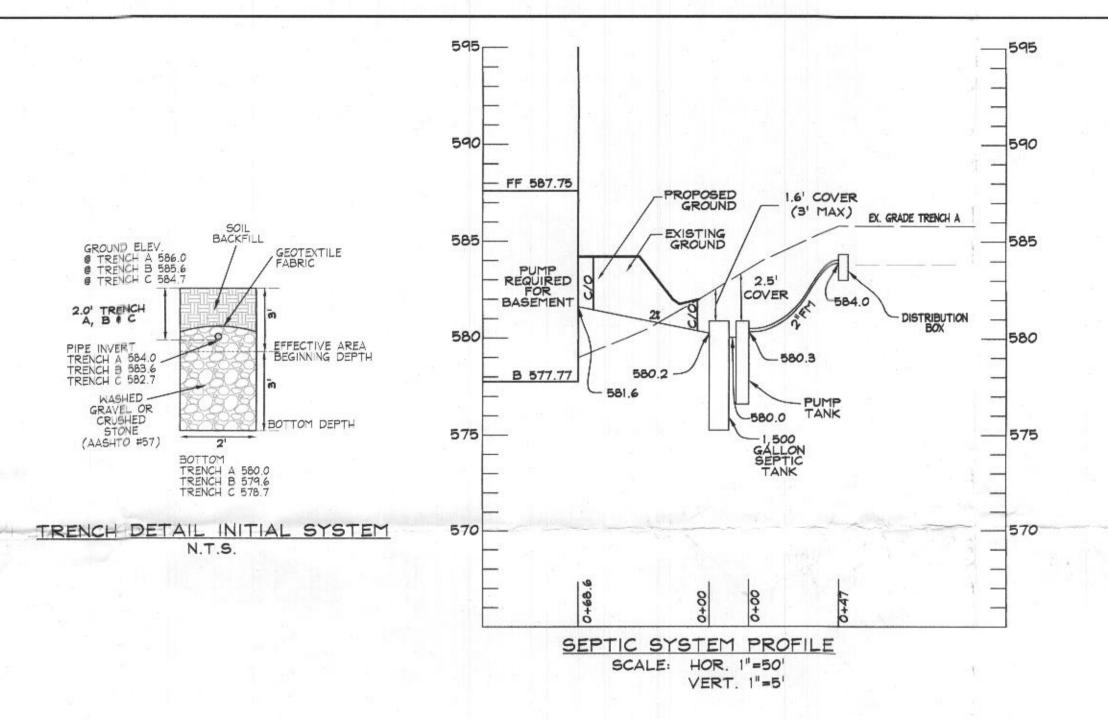
High water alarm setting

576.1 feet

2'-0" Sq. access cover extended to grade. Must be watertight & secured (child proof). ELEV. 583.2 connections INVERT ELEV. 580.0 hole, if required 558 gal Nylon cord -High Water Alarm Pump - On Pump - Off

> NOTE: CONTRACTOR TO CONFIRM ELEVATIONS PRIOR TO PURCHASING PUMP. 151" x 55" INSIDE DIMENSIONS

> > TYPICAL PUMP CHAMBER DETAIL (1,500 gal.) N.T.S.



750 GPD / 0.8 GPD/SF (APP. RATE) = 937.5 SF

- 10' MIN SPACING BETWEEN TRENCH EDGES

750 GPD / 1.2 GPD/SF (APP. RATE) = 625 SF

750 GPD / 0.8 GPD/SF (APP. RATE) = 937.5 SF

- 11' MIN SPACING BETWEEN TRENCH EDGES

- 10' MIN SPACING BETWEEN TRENCH EDGES

3 - 52' LONG TRENCHES FOR INITIAL SYSTEM

Imit of Disturbance

SCE

PUMP OFF ELEVATION 577.9

PUMP SHALL BE A GOULDS

WEO3L OR EQUIVALENT

IST REPLACEMENT SYSTEM

2ND REPLACEMENT SYSTEM

USE 3' WIDE TRENCH W/ 36" OF EFFECTIVE ABSORPTION DEPTH 937.5 SF / 3' WIDTH = 312.5 LF x 0.50 = 156.25 LF MIN. TRENCH

USE 3' WIDE TRENCH W/ 48" OF EFFECTIVE ABSORPTION DEPTH 625 SF / 3' WIDTH = 208 LF x 0.42 = 87.5 LF MIN. TRENCH

USE 3' WIDE TRENCH W/ 36" OF EFFECTIVE ABSORPTION DEPTH

2 - 44' LONG TRENCHES FOR IST REPLACEMENT SYSTEM

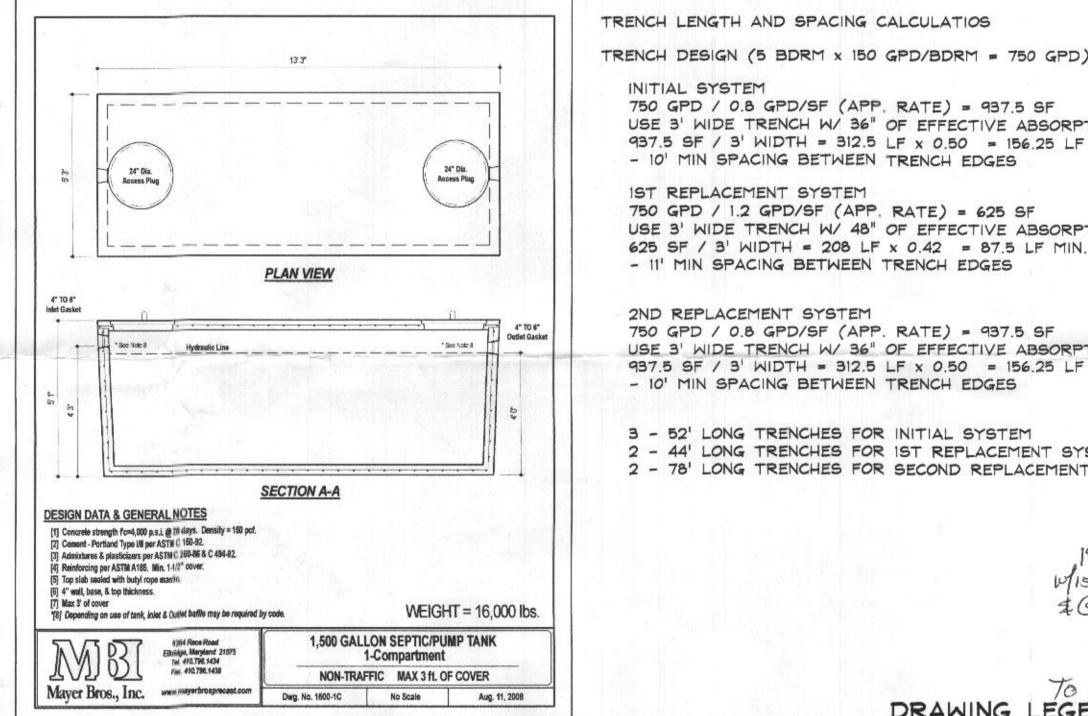
2 - 78' LONG TRENCHES FOR SECOND REPLACEMENT SYSTEM

DRAWING LEGEND

PROPOSED SILT

TRANSFORMER

937.5 SF / 3' WIDTH = 312.5 LF x 0.50 = 156.25 LF MIN. TRENCH



	Soulds Water Technology			
Wastewater				
APPLICATIONS Specifically designed for the following uses: Homes, Farms, Trailer Courts, Motels, Schools,	SJTOW or STOW severe duty oil and water resistant power cords. 1 HP models have NEMA three prong grounding			
Hospitals, Industry, Effluent Systems	plugs. • 1½ HP and larger units have bare lead cord ends.			
SPECIFICATIONS	Three phase (60 Hz):			
Pump • Solids handling capabilities: ½" maximum.	Class 10 overload protection must be provided in separately ordered starter unit.			
Discharge size: 2" NPT.	 STOW power cords all have bare lead cord ends. 			
Capacities: up to 140 GPM. Total heads: up to 128 feet 1DH. Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.	Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously with- out damage when fully submerged.			
 See order numbers on reverse side for specific HP, voltage, phase and RPM's available. 	 Bearings: Upper and lower heavy duty ball bearing construction. 			
Fully submerged in high grade turbine oil for lubrication and efficient heattransfer. Class B insulation on ½ - 1½ HP models.	 Power Cable: Severe duty rated, oil and water resis- tant. Lpoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20°. Option- al lengths are available. 			
 Class F insulation on 2 HP models. 	O ring: Assures positive sealing against contami-			
Single phase (60 Hz):	nants and oil leakage.			
 Capacitor start motors for maximum starting torque 	AGENCY LISTINGS			
Built-in overload with autematic reset.	Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549			
METERS SELT				

-**▶** 5 GPM

PAGE 2

LOT 22 - RELATIVE DEPTHS MAXIMUM TRENCH PIPE INVERT EFFECTIVE AREA BEGINNING BOTTOM INITIAL SYSTEM TRENCH A,B & C IST REPLACEMENT TRENCH A 2ND REPLACEMENT TRENCH A & B LOT 22 - APPROXIMATE ELEVATIONS GROUND BOTTOM ELEVATION ELEVATION ELEVATION INITIAL SYSTEM 586.0 584.0 TRENCH A INITIAL SYSTEM 585.6 583.6 579.6 TRENCH B INITIALSYSTEM

584.7

583.7

NOTES:

royad Septic System Plan

TRENCH A

IST REPLACEMENT

TRENCH A 2ND REPLACEMENT

TRENCH A

2ND REPLACEMENT

TRENCH B

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.

581.7

579.9

- 2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING
- 3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- 4. THE WELL (TAG #HO-17-0268) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- 5. 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

DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANABERGER AND LANE DATED JUNE, 2014. TOPOGRAPHY SHOWN PER AERIAL PHOTOGRAMMETRY AND FIELD RUN TOPOGRAPHY DATED 5/2014. ADJACENT WELL AND SEPTIC INFORMATION APPROXIMATED FROM ADJACENT PLATS, HEALTH DEPARTMENT RECORDS AND FIELD OBSERVATION ON JUNE 25, 2012. EX. ENVIRONMENTAL INFORMATION SHOWN PER FIELD INVESTIGATION BY ECO-SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.

578.7

577.7

577.9

576.9



Development Design Consultants

ESC WALKER MEADOWS, L.C.

DEVELOPER: NV HOMES 5074 DORSEY HALL DR., SUITE 205 9720 PATUXENT WOODS DRIVE ELLICOTT CITY, MD 21042 COLUMBIA, MD 21046 410-379-3391

HOWARD COUNTY, MD

www.DDCinc.us

SITE ADDRESS S/E RIVER ROAD SYKESVILLE, MD 21784

> WALKER MEADOWS A RESUBDIVISION OF LOT 2 OF THE DIEHL PROPERTY (PLAT #6937)
>
> LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M 12201 MAYAPPLE DRIVE

LOT 22 ONSITE SEWAGE

PROFESSIONAL CERTIFICATION

THEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED

STH COUNCIL DISTRICT

SRD ELECTION DISTRICT OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 21998 EXPIRATION DATE: 6/6/22 10/6/20 DATE WILLIAM R. DEMARIO PROFESSIONAL ENGINEER NO. 21998

SEWAGE DISPOSAL

DRY WELL

SHOULDER SHOULDER

TEMPORARY

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REVISIONS DESCRIPTION OF CHANGES DRN. REV. DATE CO. FILE #: F-17-045 DES. BY: LJC TAX ACC. #: 03-601568 DRN. BY: LJC TAX MAP: 9 CHK. BY: WRD BLOCK / GRID: 6 DATE: 10/6/20 DDC JOB#: 12064.3 PARCEL#: 66 SHEET NUMBER: ZONE / USE: RR-DEO DWG. SCALE: 1" = 30'

F-17-045

