

Morris

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: 12/4/19 ONSITE SEWAGE DISPOSAL SYSTEM P 566483

APPROVAL DATE: 5-14-20 PERMIT: CONSTRUCTION A

PROPERTY ADDRESS: 2061 Route 32

SUBDIVISION: LOT: TAX ID: 03-282627

CONTRACTOR: EMAIL:

CONTRACTOR ADDRESS: PHONE:

PROPERTY OWNER: Cumberland Development EMAIL:

OWNER ADDRESS: 2983 Duvall Road PHONE: 301-337-0554

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

PUMP MODEL: Zoeller Model 53 PUMP SIZE: 0.3 HP PUMP TANK CAPACITY: 1500 Gal

DISTRIBUTION SYSTEM: [X] GRAVITY [] PRESSURE DOSED BEDROOMS: APPLICATION RATE:

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required: 68.33, Inlet depth: 4, etc.)

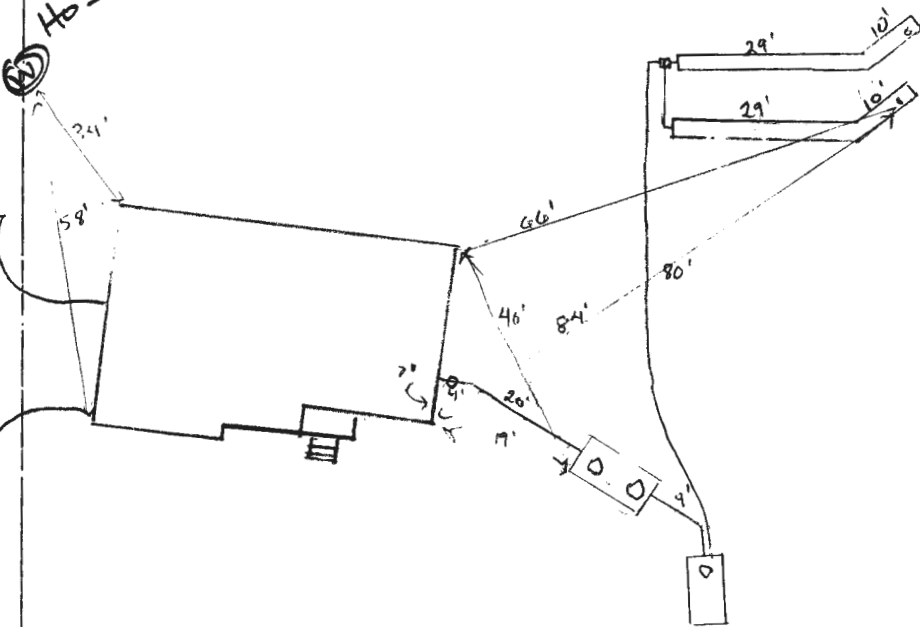
ISSUED BY: Hank Oswald ISSUE DATE: 12/4/19 EXPIRATION DATE: 12/4/20

- 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 DOWNGRAIDENT 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.

NOT TO SCALE

17-17-0182



ROUTE ROAD NAME
32

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES	2	
TOTAL LENGTH	78'	
ABSORPTION AREA	234 sq ft + 5' side wall	
DISTRIBUTION BOX LEVEL	-	
DISTRIBUTION BOX BAFFLE	-	
DISTRIBUTION BOX PORT	-	

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	3000 GAL
SEAM LOC	top
TANK I.L.D. DEPTH	2.5'
BAFFLES	front + back
BAFFLE FILTER	-
MANHOLE LOC	front + back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	11-13-19

PUMP/SEPTIC TANK LEVEL

MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	top
TANK I.L.D. DEPTH	1.5'
BAFFLES	yes
BAFFLE FILTER	-
MANHOLE LOC	front
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	no
DATE ON LID	10-8-19

PRE-CONSTRUCTION:

1/17/2019 TANK AND SDA STAKED (LAW) OUT 2X35' TRENCHES ALONG CONTOUR. TRENCHES PER PLAN HAVE SIGNIFICANT BEND (P)

INSTALLATION: 1/3/2020 Tanks set, trenches dug and d-box connected. Re-inspect for SHE and pump. (ST) 1/9/2020 SHE installed. Re-inspect for pump and alarm (ST) 5/7/20 - p.s.a called in and upon inspection the outlet for the pump did have a weatherproof box but it was on the inside of the riser. The alarm also did not have it's own dedicated circuit in the basement and I did not hear the alarm - shut it off before we got to the basement. (P) 5/14/20 - P.S.A good. high water that triggered alarm which has it's own circuit, junction box at - look in en post next to riser. (P)

FINAL INSPECTOR R. Reppapert

DATE OF APPROVAL 5/14/20

Wolf, Kevin

From: Lee Cumberland <lee@cumberlandincorporated.com>
Sent: Friday, October 27, 2017 11:42 AM
To: Wolf, Kevin
Subject: 2061 Route 32 Septic Demo Application
Attachments: demo request for 2061 route 32 .pdf

Hi Kevin,

We just spoke on the phone about the 2061 septic demo. I spoke to the well driller and the actually did abandon the existing well when they drilled the new one. The paperwork should reach you today or Monday.

I'm planning to have the tank pumped early next week. I would like to break up the drywell and tank at the same time as the house is demoed if that if possible.

I've attached the demolition request form. Please let me know if you have any questions or concerns.

Thanks!

Lee

--

Lee Cumberland
Cumberland Incorporated
MHIC#134655
2983 Duvall Rd
Woodbine MD, 21797
443-605-6864

Wolf, Kevin

From: Steven Krieg -MDE- <steven.krieg@maryland.gov>
Sent: Thursday, December 05, 2019 2:34 PM
To: Williams, Jeffrey
Cc: Wolf, Kevin; Oswald, Hank
Subject: Re: FW: Scan from HP MFP

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Sounds fine.

Approved.

I'll follow up later with an official signature.

On Thu, Dec 5, 2019, 2:32 PM Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

Hi Steve. Please see attached. This is a new house that ended up with an egress bump out on the foundation that wasn't shown on the building permit plan. The egress is 28' from the well. We're ok with letting it go, but it would technically need a COMAR variance. Let me know if you have questions. Thanks

Jeff

From: HP Scan <noreply@howardcountymd.gov>
Sent: Tuesday, December 03, 2019 11:49 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: Scan from HP MFP

[Click here](#) to complete a three question customer experience survey.



PROPERTY OF
ROLF RAMELMEIER
MARALYN RAMELMEIER
TM 15 PARCEL 187

PROPERTY OF
ROLF RAMELMEIER
MARALYN RAMELMEIER
TM 15 PARCEL 187

PROPERTY OF
HUI LI
JIA CHEN
TM 15 PARCEL 134

MARYLAND ROUTE 32

EX. 24" CMP
TO REMAIN UNDER
NEW DRIVEWAY

PROVIDE GRAVEL TRANSITION
STRIP USING #67 STONE
@ 3:1 MAX. DEPTH= 4 INCHES

EXISTING HOUSE
TO BE RAZED

EX. PROPANE VALVE
0.00
EX. WELL
TO BE ABANDONED

PROP. DRYWELL
#2 (M-5)
(2'x16'x5')

547.57
Invert In 36

556.37
Invert In 24

559.42
24" Ash

561.98
30" Hickory

560 TSSMC

562
ALT. WELL

564.4
15" ALT. WELL

NON-ROOFTOP
DISCONNECTION
(N-2)

EX. DRY
WELL
TBR

EXISTING
SHED
TBR

EX. WELL
TAG NO.
HO-17-0182

NON-ROOFTOP
DISCONNECTION
(N-2)

STOCK
PILE
AREA

564.1
15" ALT. WELL

565.1
15" ALT. WELL

566
15" ALT. WELL

EXISTING
TREE LINE

PROP. RETAIN WALL
TW=569.6
BW=567.2

PROP. RETAIN WALL
TW=572.0
BW=569.6

PROP. SEPTIC
PUMP
TANK

TSSMC

PROP. SEPTIC
TANK

PROP. SEPTIC
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PROP. DRYWELL
#1 (M-5)
(2'x16'x5')

PROP. DRYWELL
#2 (M-5)
(2'x16'x5')

PROP. DRYWELL
#3 (M-5)
(2'x16'x5')

PROP. DRYWELL
#4 (M-5)
(2'x16'x5')

PROP. DRYWELL
#5 (M-5)
(2'x16'x5')

PROP. DRYWELL
#6 (M-5)
(2'x16'x5')

PROP. DRYWELL
#7 (M-5)
(2'x16'x5')

PROP. DRYWELL
#8 (M-5)
(2'x16'x5')

PROP. DRYWELL
#9 (M-5)
(2'x16'x5')

PROP. DRYWELL
#10 (M-5)
(2'x16'x5')

PROP. PUMP
TANK

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Oswald, Hank

From: Oswald, Hank
Sent: Thursday, May 17, 2018 9:02 AM
To: 'Tony Fertitta'
Subject: OSDS Plan_2061 Route 32

Hi Tony:

Good morning. Can you tell me the status of the OSDS Plan for 2061 Route 32?

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Friday, May 25, 2018 8:55 AM
To: 'Tony Fertitta'
Subject: OSDS Plan Route 32
Attachments: OSDS Memo To FCC_Route 32_2018.pdf; OSDS Design Plan Requirements_Updated 5.31.17.pdf

Hi Tony:

Please see attached memo for OSDS plan review comments pertaining to 2061 Route 32.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, June 19, 2018 10:35 AM
To: 'Tony Fertitta'
Cc: CUMBERLANDDEVCUSTOMHOMES@GMAIL.COM
Subject: OSDS Plan_2061 Route 32

Hi Tony:

The revised OSDS Plan shows the pump tank within the SDA. In my last response, I specifically stated to move the tanks to the bottom of the SDA but not in it. Please revise.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Thursday, June 07, 2018 11:03 AM
To: 'Tony Fertitta'
Subject: RE: OSDS Plan_2061 Route 32

Hi Tony:

In speaking with my supervisor about the plan, the drywells have to meet the setbacks. He suggested moving the tanks to the bottom of the SDA but not in it. We will field verify setbacks at time of installation. Also, move the septic trenches up to the top of the SDA in order to utilize that area first and not waste it.

Let me know if you have any questions.

Thanks,

Hank

From: Oswald, Hank
Sent: Thursday, June 07, 2018 10:15 AM
To: 'Tony Fertitta'
Subject: OSDS Plan_2061 Route 32

Hi Tony:

Drywell # 1 is within 25 feet of the septic tank. Drywell #2 is within 100 feet of the 2nd alternate well site.

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Transmittal

Via: Fax Mail Messenger E-Mail To Be Picked Up
 Fax (original to follow via U.S. Mail)

To: Bureau of Environmental Health 8930 Stanford Boulevard Columbia, MD 21046-4544	Attn: Hank Fax: (410) 313-2648 Phone: (410) 313-2640
---	---

From: Tony Fertitta	CC:
----------------------------	-----

Re: 2061 Route 32	W.O.# 17019
Date: June 15, 2018	Pages: 3 Page(s) Including this cover

We are forwarding:	<input checked="" type="checkbox"/> Prints	<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Specifications	<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Other
	<input type="checkbox"/> Urgent	<input type="checkbox"/> For your use	<input type="checkbox"/> As requested	<input type="checkbox"/> For Review & Comment	

Remarks:

Hank:

Provided here are Two (2) prints of the drawing entitled " Septic Installation Plan " revised per your comments. If we may be of any further assistance, please do not hesitate to call.

Very truly yours,

Tony Fertitta

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Via: Fax Mail Messenger E-Mail To Be Picked Up
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To: Bureau of Environmental Health 8930 Stanford Boulevard Columbia, MD 21046-4544	Attn: Hank Fax: (410) 313-2648 Phone: (410) 313-2640
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From: Tony Fertitta	CC:
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Re: 2061 Route 32	W.O.# 17019
Date: June 15, 2018	Pages: 3 Page(s) Including this cover

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other <input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input type="checkbox"/> For Review & Comment
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Remarks:

Hank:

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Very truly yours,

Tony Fertitta

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

MEMORANDUM

TO: Fisher, Collins & Carter, Inc.
10272 Baltimore National Pike
Ellicott City, MD 21042

FROM: Hank Oswald, L.E.H.S.
Well & Septic Program

RE: 2016 Route 32

Date: May 25, 2018

The OSDS Plan for 2016 Route 32 has been reviewed with the following comments:

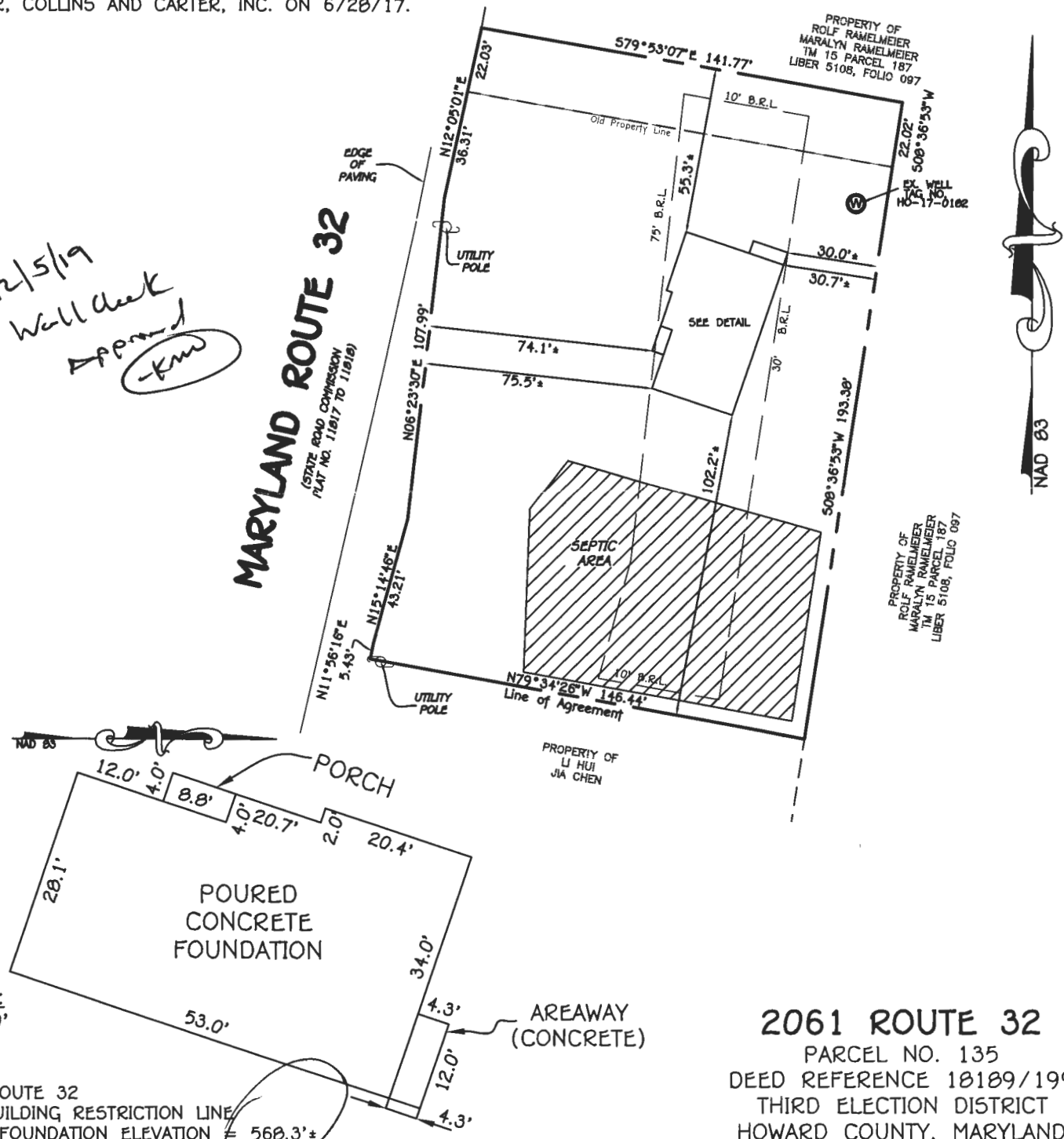
- 1.) The drywells are within 25 feet of the SDA. Relocate.
- 2.) Retaining wall (RW) is within 25 feet of the SDA. Does it have drainage? Pull back retaining wall as much as possible. It doesn't have to be 25 feet but it shouldn't be this close to the SDA.
- 3.) Septic tank/pump tank are within the 100 foot well radius. Relocate.
- 4.) Revise wording for existing well/drywell to "abandoned".
- 5.) Add required OSDS Notes to plan. (See attachment)
- 6.) Add well tag # to new well site on plan
- 7.) Label replacement systems inside the SDA and show separate trenches for the 1st replacement system.
- 8.) Per sand mound manual, the friction loss is 2.05 (not 2.58) but it doesn't make too much of a difference.
- 9.) What is 2 - 1/8 HB in calculation?

GENERAL NOTES:

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C0055D EFFECTIVE 11/6/2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 0.5'.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-17-0102 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 7) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2020.
- 8) BUILDING PERMIT #B-10001567
- 9) THE BEARING AND DISTANCES SHOWN ON THIS DRAWING ARE A RESULT OF A BOUNDARY SURVEY COMPLETED BY FISHER, COLLINS AND CARTER, INC. ON 6/20/17.

12/5/19
Well check
Approved
-KMC

MARYLAND ROUTE 32
(STATE ROAD COMMISSION
PLAT NO. 11817 TO 11818)



DETAIL:
1" = 20'

#2061 ROUTE 32
B.R.L. BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 560.3'

2061 ROUTE 32
PARCEL NO. 135
DEED REFERENCE 10189/199
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2955

FCC #

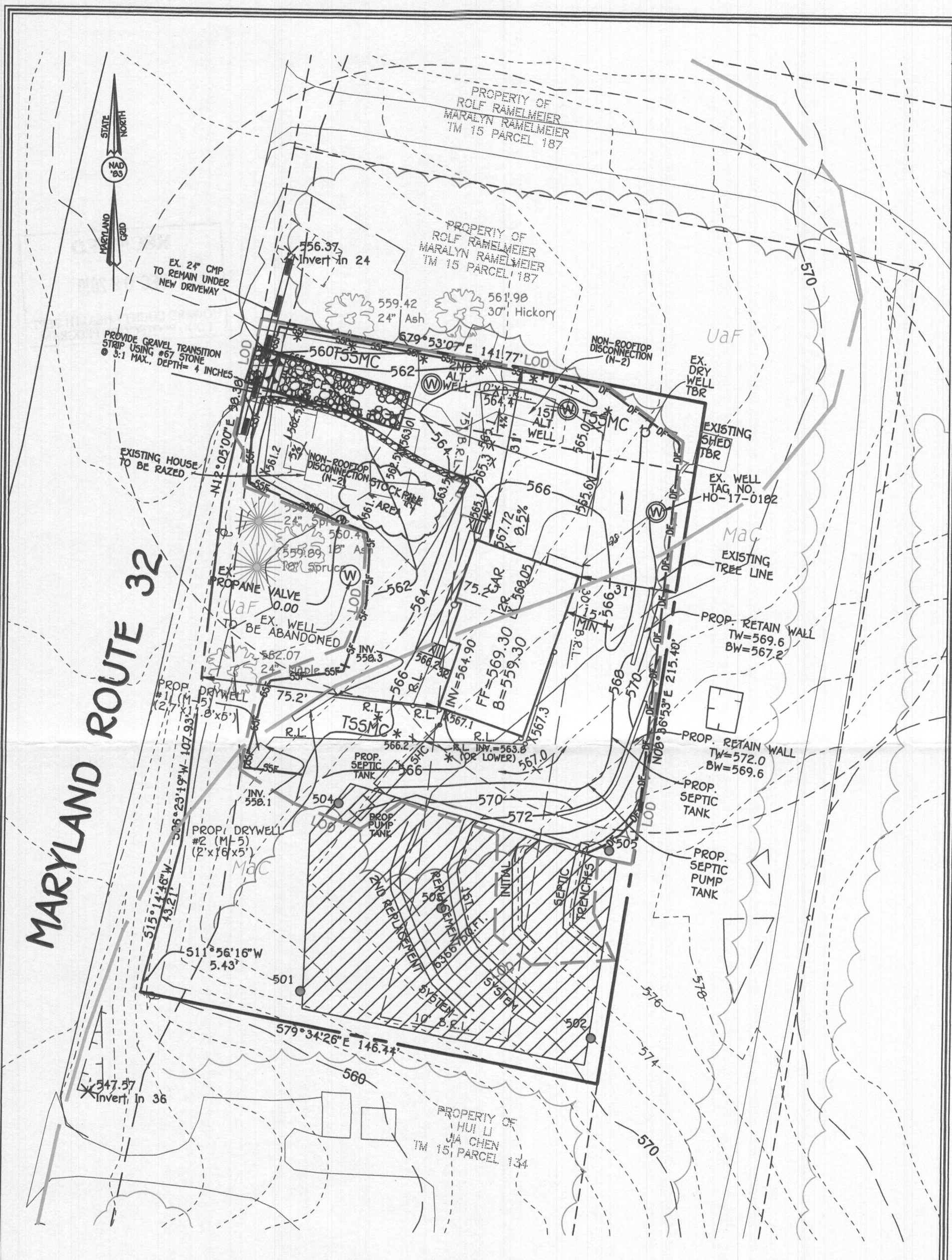
STATE OF MARYLAND
MARK L. ROBEY
PROPERTY LINE SURVEYOR
REG. #339

10/14/19
DATE

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 10/11/19
FINAL LOCATION: _____
BOUNDARY SURVEY: _____

SCALE: 1" = 50'
DATE: 10/14/19
DRAWN BY: MD
CHECKED BY: MLR
PROJECT No.: 17019-6001



PLAN
SCALE: 1"=30'

WELL CERTIFICATION:
THE EXISTING WELL, TAG NO. HO-17-0182, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE |
ELLCOTT CITY, MARYLAND 21042
(410) 461 - 2855

BUILDER
CUMBERLAND CUSTOM HOMES
2983 DUVALL ROAD
WOODBINE, MARYLAND 21797

PERMIT SITE PLAN
2061 ROUTE 32

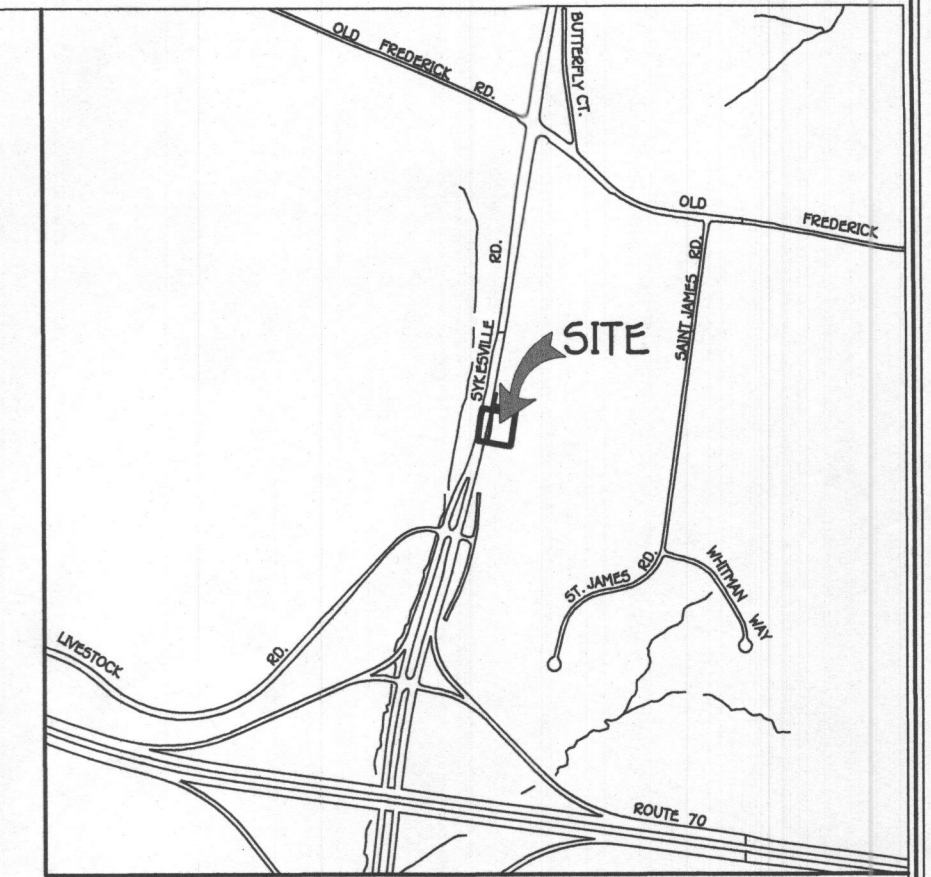
ZONED: RC-DEO
TAX MAP NO.: 15 PARCEL NO. 135 GRID NO.: 5
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: JUNE 13, 2018

LEGEND

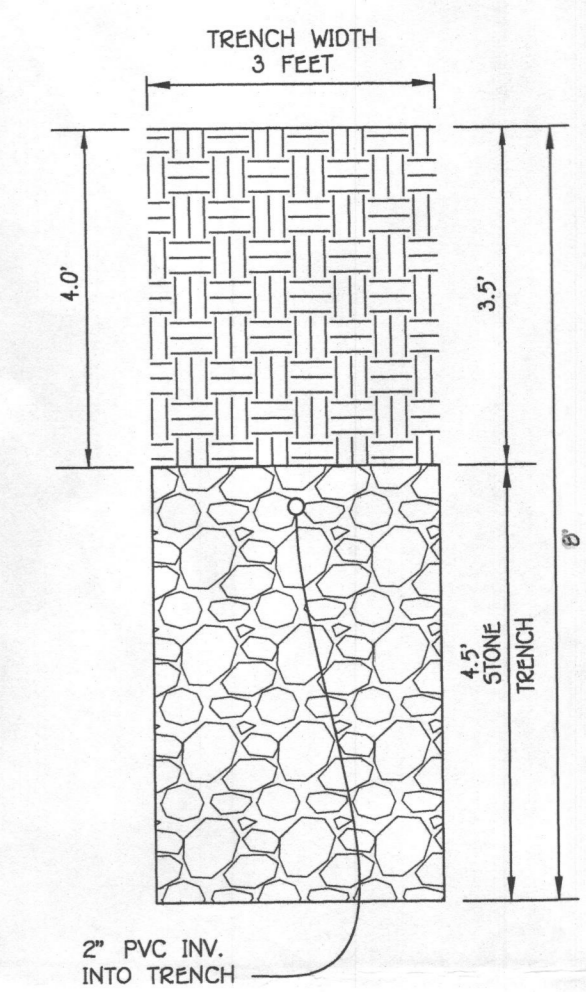
- - - - - EXISTING 2' CONTOURS
- - - - - EXISTING 10' CONTOURS
- - - - - EXISTING TREE LINE
- (W) DENOTES EXISTING WELL
- (●) DENOTES PASSED PERC
- (⊗) DENOTES PROPOSED HOUSE
- (W) DENOTES PROPOSED WELL SITE



SOILS LEGEND			
SOIL	NAME	CLASS	K FACTOR
MaC	Minor loam, 0 to 15 percent slopes	B	.24
UaF	Udorthents, Highway, 0 to 65 percent slopes	X	X



VICINITY MAP
SCALE: 1" = 1200'

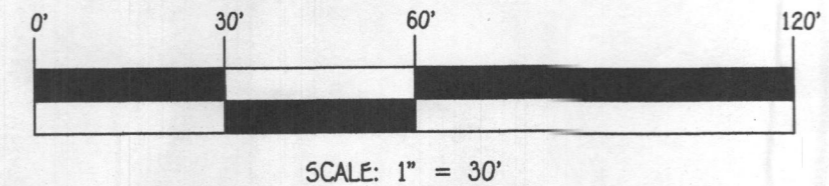


INITIAL TRENCH DETAIL
SCALE: 1" = 2'

NOTE: OBSERVATION PIPE MUST BE INSTALLED AT EACH END OF EACH TRENCH



PLAN
SCALE: 1" = 30'



SCALE: 1" = 30'

OWNER/DEVELOPER
Cumberland Development
Custom Homes
2983 Duvall Road,
Woodbine, MD 21797
301-252-1122

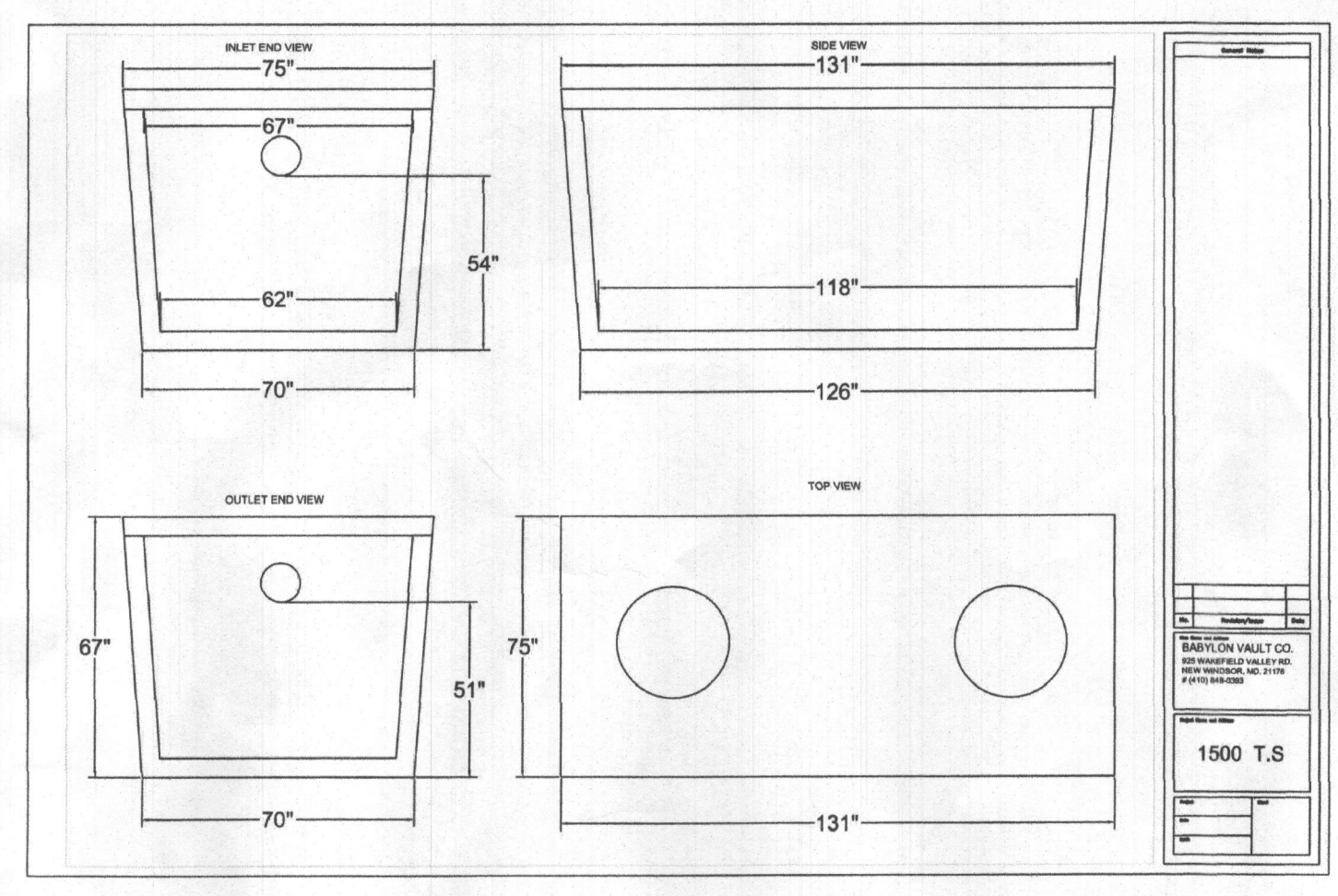
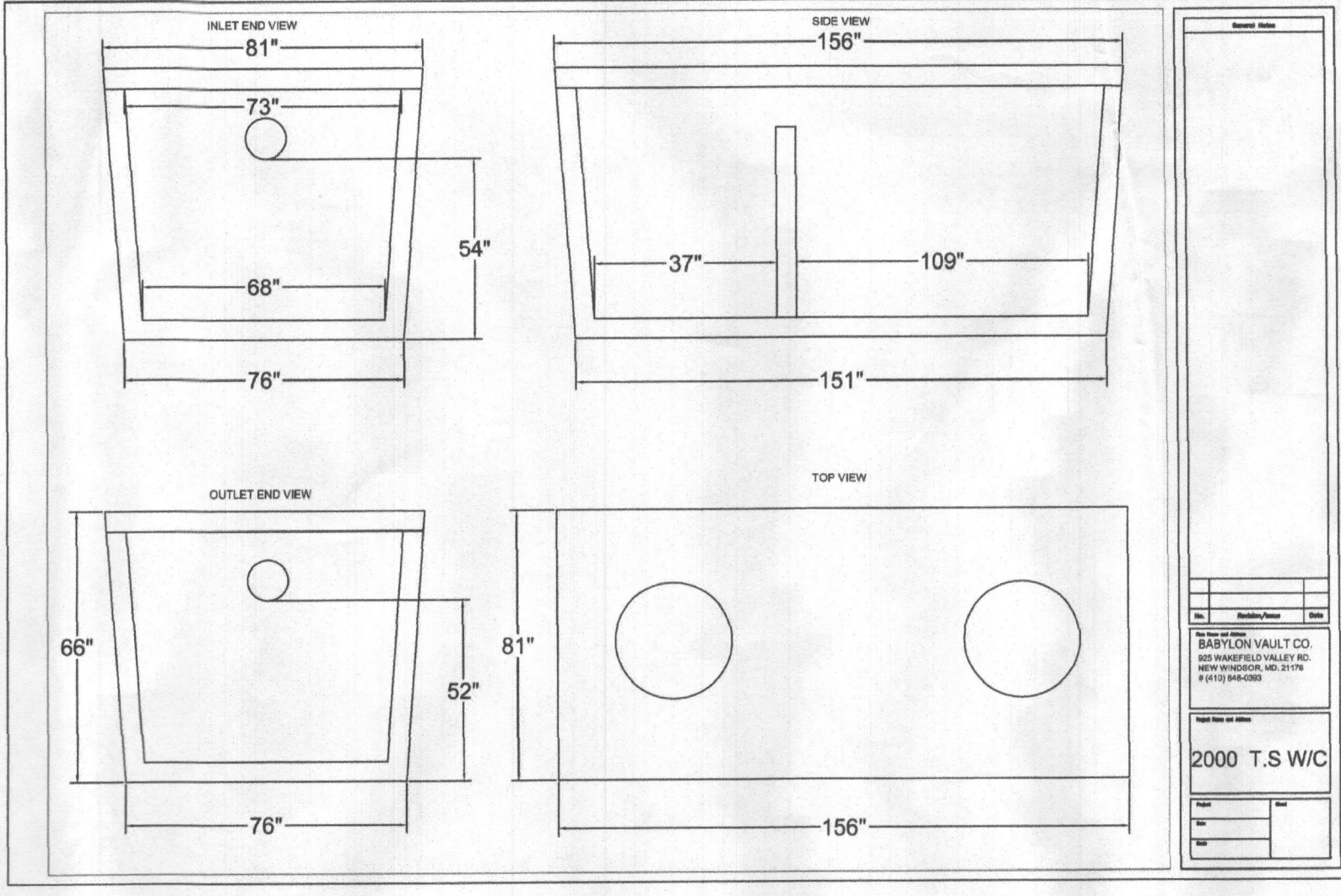
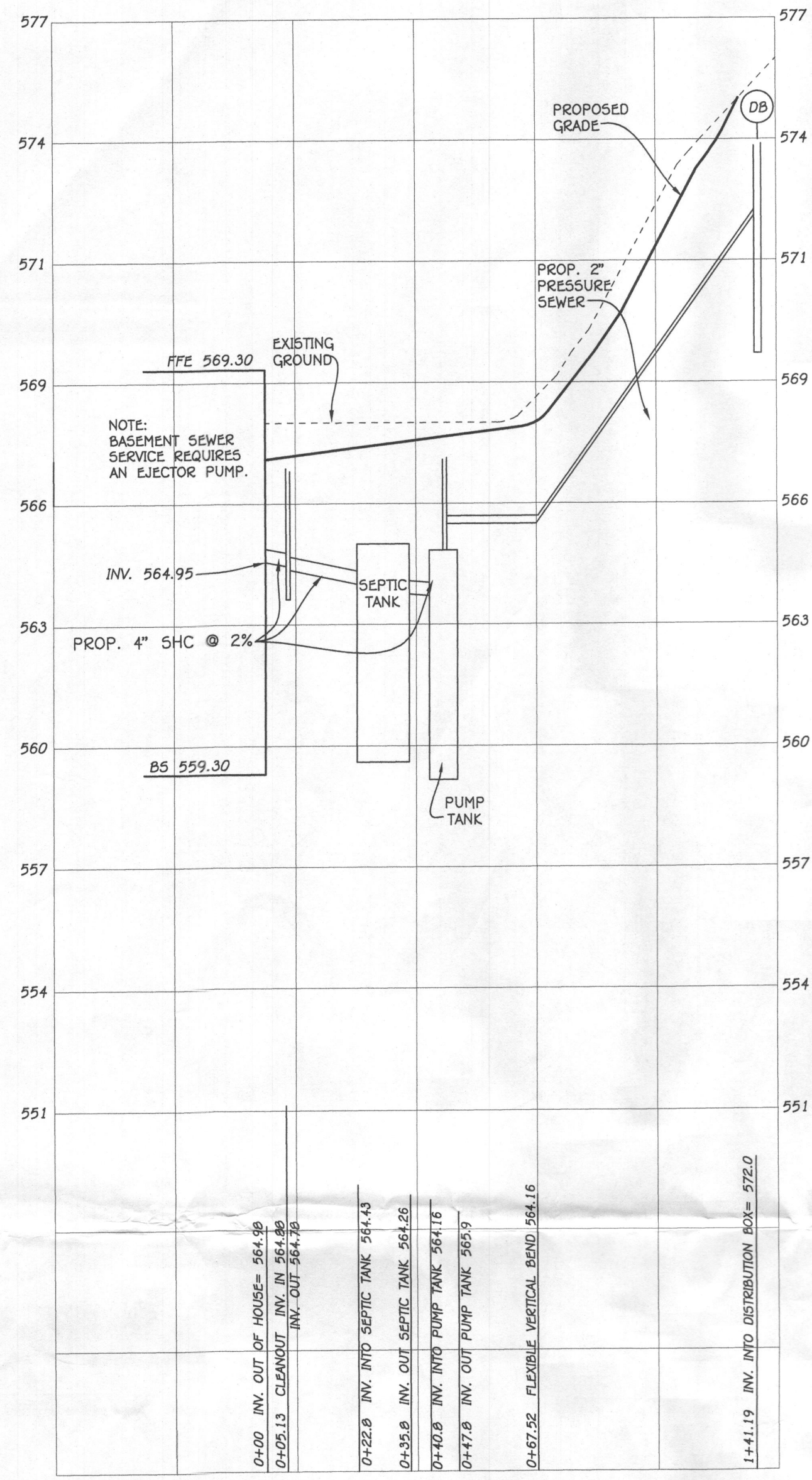


PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2019.
Michael Witcz 12/15/19
ALDO MICHAEL WITCZ DATE

Approved Septic System Plan
Howard County Health Department
Hank Osawa 12/15/19
Signature Date

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. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-17-0182 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.

SEPTIC INSTALL PLAN
2061 ROUTE 32
ZONED: RC-DEO
TAX MAP NO.: 15 GRID NO.: 5 PARCEL NO.: 135
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: June 15, 2018
SHEET 1 OF 2



NOTE:
NO GRAVITY SEWER
SERVICE FOR BASEMENT

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. 25748, EXPIRATION DATE: 02/22/2019.
Aldo Michael Vitucci 12/2/19
ALDO MICHAEL VITUCCI DATE

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 576.0
INV. IN = 572.0
BOTTOM TRENCH = 568.0
TRENCH 2:
EX. GROUND ABOVE = 574.0
INV. IN = 570.0
BOTTOM TRENCH = 566.0

INITIAL SYSTEM

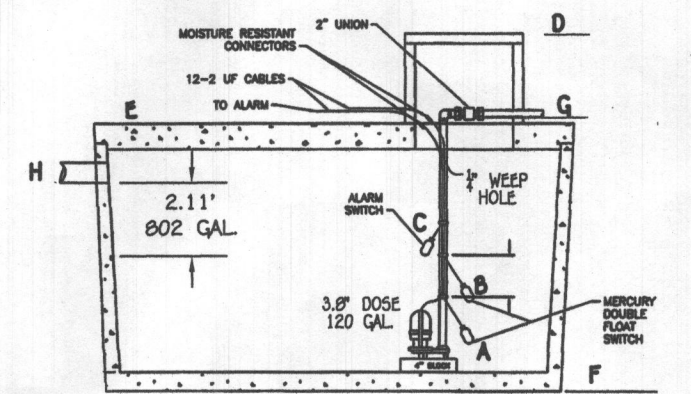
SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 4 BEDROOMS
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 600 GPD / 1.2 = 500 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41
TRENCH LENGTH = 500 SF x 0.41/3 = 88.33 FEET
(USE 2 TRENCHES AT 34.17 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

1ST 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 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 600 GPD / 1.2 = 500 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41
TRENCH LENGTH = 500 SF x 0.41/3 = 88.33 FEET
(USE 2 TRENCHES AT 34.17 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

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 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 600 GPD / 1.2 = 500 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41
TRENCH LENGTH = 500 SF x 0.41/3 = 88.33 FEET
(USE 2 TRENCHES AT 34.17 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'



PUMP ALARMS / INFORMATION
A PUMP OFF :561.41
B PUMP ON :561.73
C HIGH WATER ALARM :562.05
D TOP OF ACCESS COVER :568.00
E TOP OF TANK :565.24
F BOTTOM OF TANK :559.66
G DISCHARGE OUT OF TANK :565.90
H INVERT INTO TANK :564.16

TOTAL EMERGENCY STORAGE = 922 GAL
NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

2" SCH. 40 PVC = 74 LF
2 1/8" HB @ 4 EQUIVALENT FEET = 8 LF
1 2" ELBOW @ 9 EQUIVALENT FEET = 9 LF
TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 91 LF

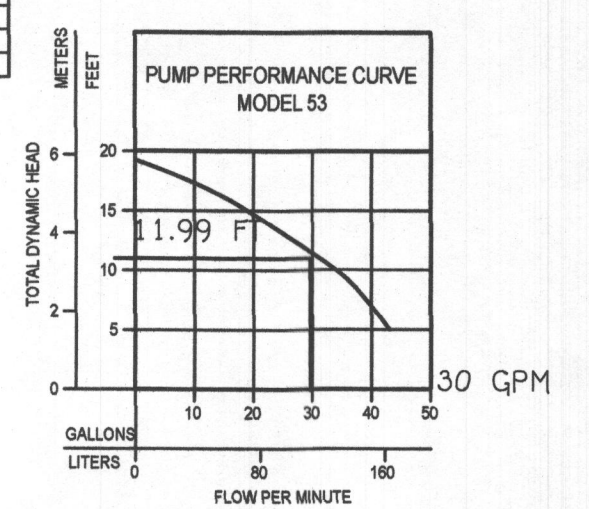
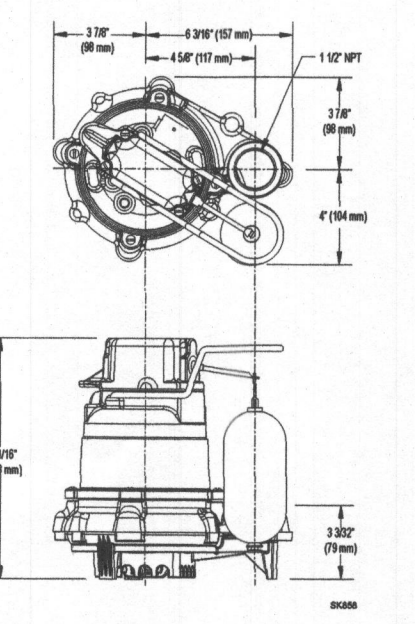
DYNAMIC HEAD:
31 LF X 1.54 FT PER 100 LF OF 2" PIPE = 1.40 FT OF FRICTION HEAD
VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 4.49 FT OF FRICTION HEAD
HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV. OF SYSTEM = 6.1 FT (PUMP OUT IS THE HIGHEST POINT)
TOTAL DYNAMIC HEAD = 11.99 FT

1/5 DESIGN FLOW (500/5=100)
USE 120 GALLON DOSE (100 GALLON MINIMUM)
(RUN TIME = 4 MIN (30 GPM X 4 = 120 GALLON DOSE)
PUMP NEEDS TO HANDLE 30 GPM AT 11.99 FT OF HEAD
USE 0.5 HP (ZOELLER MODEL 53 PUMP)

DETAIL OF PUMP TANK

PRODUCT SPECIFICATIONS

MOTOR	Brand: 3/35
	Voltage: 115 or 230
	Phase: 1 Ph.
	Code: 8010
	Frame: 1600
	Type: Wound pole
	Insulation: Class B
	Area: 43.87
OPERATION	Automatic or nonautomatic
	Auto On/Off: 1.10" (28 mm) 1.10" (28 mm)
	Discharge Size: 1.10" (28 mm)
PUMP	Brand: 53
	Capacity: 30 GPM (1135 L/min)
	Head: 11.99 FT (3.65 m)
	Motor: 0.5 HP (373 W)
	Max. Flow: 30 GPM (1135 L/min)
	Max. Operating Temp: 130° F (54° C)
	Coating: Oil Free
MATERIALS	Motor Protection: Anti-rust thermal coating
	Cap: Cast Iron or Bronze
	Motor Housing: Cast Iron or Bronze
	Pump Housing: Cast Iron or Bronze
	Base: Cast Iron, Bronze or Anodized Aluminum
	Upper Bearing: Bronze Bearing
	Lower Bearing: Bronze Bearing
	Mechanical Seal: Carbon and Ceramic
	Impeller Type: Non-stopping system
	Impeller: Plastic, Cast Iron or Bronze
	Hardware: Stainless Steel
	Motor Shaft: AISI 316 Cold Rolled Steel
	Diaphragm: Neoprene



NOTE: See model comparison chart for specific details.
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802-770-2731 | 800-928-7867 | 3648 Cane Run Road | Louisville, KY 40211-1981 | www.zoellerpumps.com