

LAYOUT 4/16/2012 INSP 4 5/31/2012  
INSP 2 5/23/2012 INSP 5 6/1/2012  
INSP 3 5/24/2012 INSP 6 6/4/2012

6/7/2012  
6/8/2012

ISSUE DATE: 4/27/2012 6/7/2012  
APPROVAL DATE: 6/8/2012

P 537260  
A \_\_\_\_\_

# PERMIT

## SANDMOUND SYSTEM ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

Steven Neil Mulloy IS PERMITTED TO INSTALL  ALTER

ADDRESS: P.O. Box 207, West Friendship <sup>21794</sup> PHONE NUMBER: 410-984-4643

SUBDIVISION: PLEASANT VALLEY FARM LOT NUMBER: 3

ADDRESS: 13945 FORSYTHE ROAD PROPERTY OWNER: GREGORY & KATHERINE  
SYKESVILLE, MD 21784 WHEELER

SEPTIC TANK CAPACITY (GALLONS): 2000  
Top Seam \_\_\_\_\_

PUMP CHAMBER CAPACITY (GALLONS): 1500 Pump System with 3 floats; alarm and control  
Top Seamed \_\_\_\_\_ box on a separate circuit.

Materials specs: "The gravel shall be free of fines and be between 3/4 inch and 2 inches in size" [COMAR 26.04.02.05(h)]. "The sand beneath the gravel bed shall be of an effective size between 0.25 and 0.5 mm and have uniformity coefficient of 3.5 or less" [COMAR 26.04.02.05(l)]. 'Alternative sand' may be allowed though its use is subject to approval per results of sieve analysis. If 'alternative sand' is used, an effluent filter will be required on the outlet of the septic tank.

LOCATION:	Sand Mound System to be installed per Plot Plan (B11002424) approved on 9/12/2011.
NOTES:	Call for layout inspection. Stake all three sand mound footprints. Observation pipes must be installed. The Sand Mound Septic System must be operational and approved, including the Pump & Alarm components, prior to release of Use and Occupancy.

PLANS APPROVED: Robert Bricker RB 4/22/12 DATE: 9/26/2011

NOTES: PERMIT VOID AFTER 2 YEARS  
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
WATERTIGHT SEPTIC TANKS REQUIRED  
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**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 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

6/1/2012 Sand on plowed area. Bed area is not parallel to bottom of mound. Called Steve Krieg and asked him if this was O.K. He said that as long as downslope specs. were met it is O.K. (BB) 6/4/2012 Gravel and laterals installed. Pump and alarm working. Missing one observation pipe. 2.5' of head in laterals, (BB)

See As-Built Drawing On Separate Sheet

6/7/2012 Bed finished except for grass seed. Need to add more dirt on front of mound so that water drains around it better. (BB)

6/8/2012 Bed seeded. More dirt added to front of mound. (BB)

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	2'-2.5'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	No
PUMP TANK LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	2-2.5'
BAFFLES	Front
BAFFLE FILTER	No
MANHOLE LOC	Rear
6" PORT LOC	None
WATERTIGHT TEST	No

BED DATA	
BED LENGTH	60.5'
BED WIDTH	10'
BED AREA	605 SQ FT
INLET	
BOTTOM	
LATERALS	6 x 28.5'
HOLE SPACING	3.33'

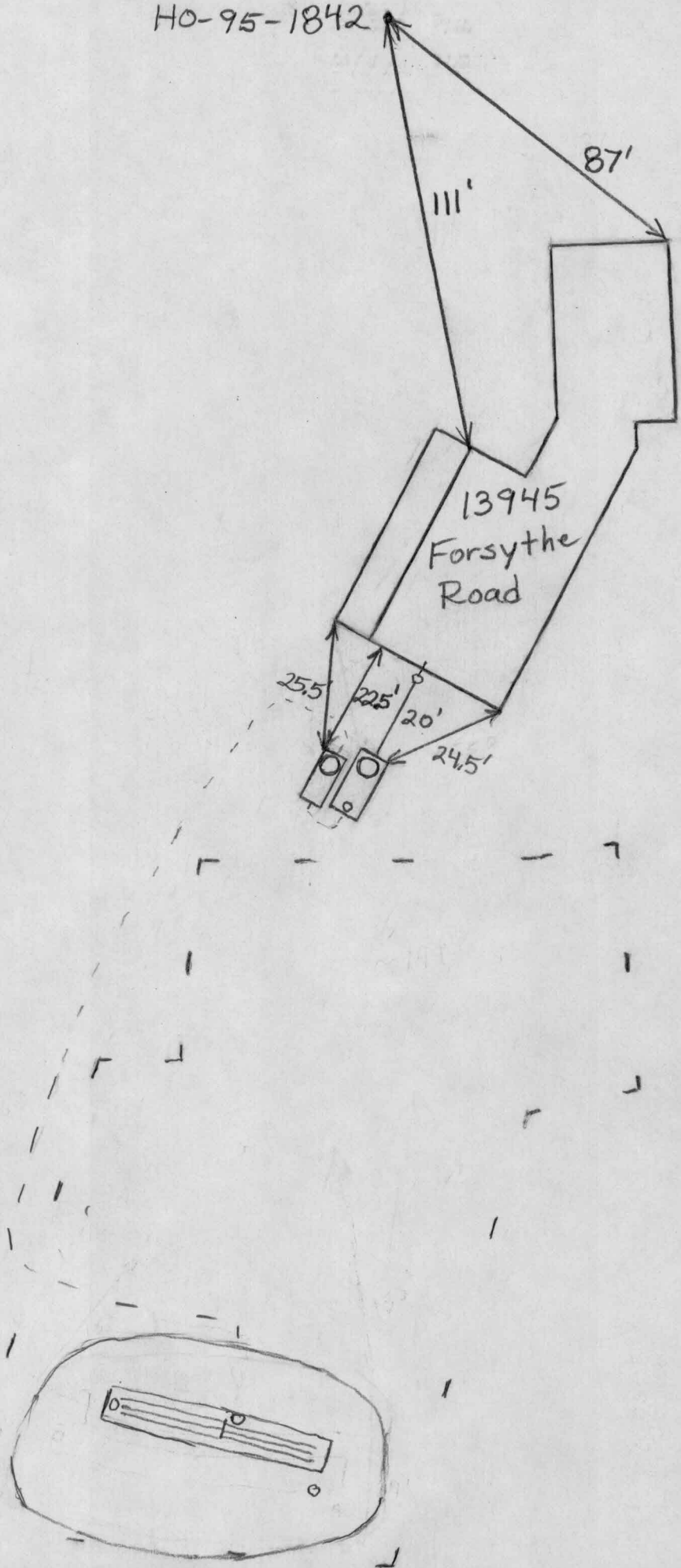
PRE-CONSTRUCTION 4/16 Installer asked if he could put in top mound first. O.K. but it needs to be staked out. (BB) 5/23/2012 Set tanks next to each other on side of house. Builder wants to put in bottom mound now. (BB)

INSTALLATION 5/24/2012 First tank installed. House connection made. Contractor wanted to run pump line through middle of easement because of rock. I told him to install along side of easement. (BB) 5/31/2012 Installer plowed mound area.

Mound contour and soil were not checked by Health Dept. Soil is borderline wet and plowed area is off

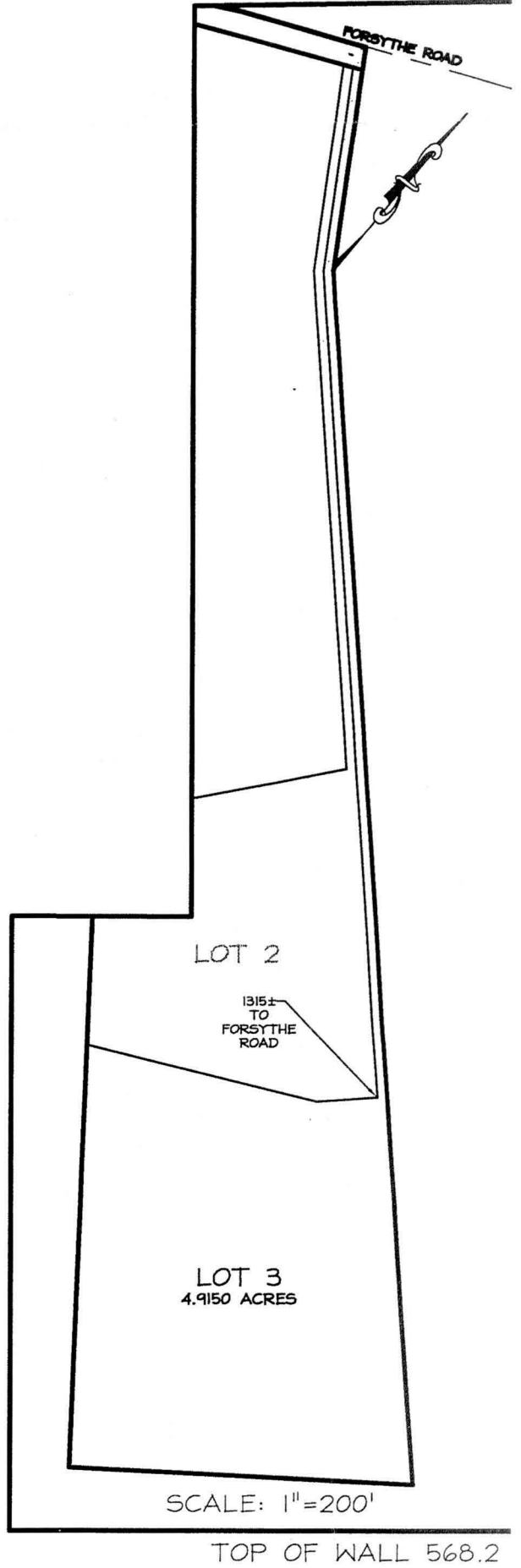
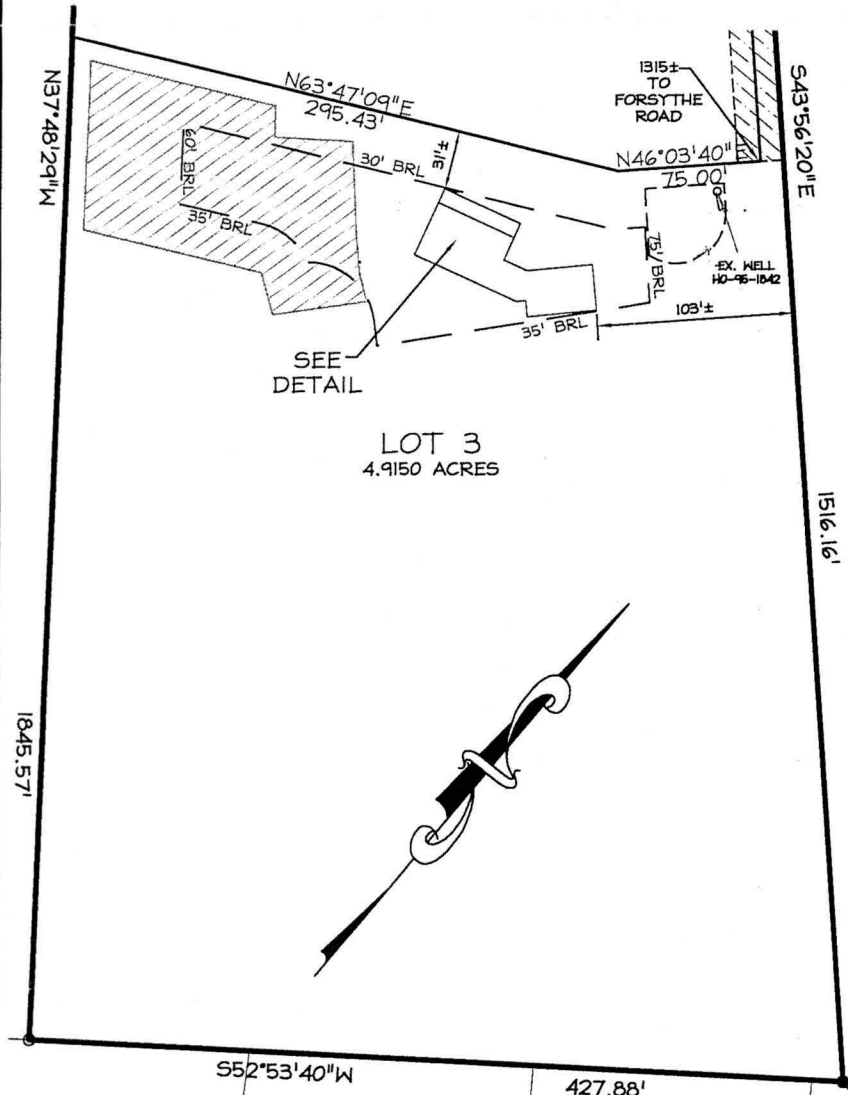
FINAL INSPECTOR B. Baker DATE OF APPROVAL 6/8/2012  
contour. Adjusted bottom of bed to get it close to contour. Pump tank and alarm... (BB)

HO-95-1842

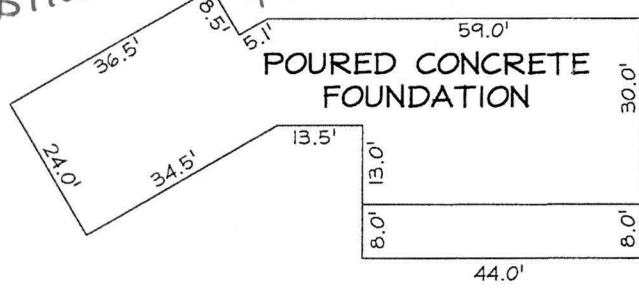


PROPERTY KNOWN AS:  
 13945 FORSYTHE ROAD  
 LOT 3 "PLEASANT VALLEY FARM LOTS 1-3"  
 4th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 PLAT# 21665,21666,21667

THIS PLAT CAN NOT BE USED TO ESTABLISH  
 PROPERTY LINES OR CORNERS.



*Lot 3 wall check 'ok'*  
 SCALE: 1"=100'  
*B11002424 R. Baker 4/27/12*

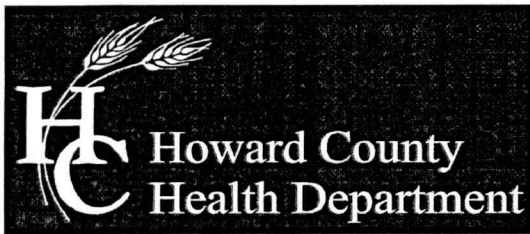


DETAIL  
 SCALE: 1"=30'

PROFESSIONAL  
 CERTIFICATION:  
 I hereby certify that these documents were 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, License No. 10685, Expiration Date 12/9/2011.

FOUNDATION  
 LOCATION DRAWING

CERTIFICATION	SEAL	SCALE: SHOWN	DATE: 11/2011
<p>This is to certify that I have surveyed the property known as:  <u>13945 FORSYTHE RD.</u></p> <p>The information shown has been established by current acceptable survey procedures and from available record information. This drawing is to used for Title Transfer Financing, or Refinancing Only and IS NOT to be used for the Establishment of Property Lines, Location for Fences, Garages, Buildings, or other Existing or Future Improvements.</p>		<p><b>LDE Inc.</b>  <i>Engineers • Surveyors • Planners</i>      Historic Carriage House      7520 Main Street • Suite 203      Sykesville, Maryland • 21784      (410)795-6391 • (410)795-6392 • FAX(410)795-9540      www.Landsurveyormd.com</p>	
DRAWING:		JOB# 07-017.2	



## Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

Peter L. Beilenson, M.D., M.P.H., Health Officer

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September 12, 2012

Level Land  
PO Box 100  
Lisbon, MD 21765

**RE: Septic Permits P537261: 13955 Forsythe Rd and P537260: 13945 Forsythe Rd**

On April 27, 2012, the Howard County Health Department issued permits to install sandmound septic systems at 13945 and 13955 Forsythe Road. During your installation of those systems, the Health Department observed that the mound areas were plowed without first scheduling an inspection by the Health Department to check soil moisture.

It is essential for the proper functionality of a sandmound system for the mound area to be plowed only when the soil moisture content is low. This decision is to be made by the inspecting Sanitarian on the day the work is to begin. You are hereby instructed to call in an inspection of the sandmound area prior to beginning preparation and during all stages of installation thereafter on all future sandmound installations.

Failure to comply with this directive may result in our recommendation to the Maryland Department of the Environment for sandmound license revocation.

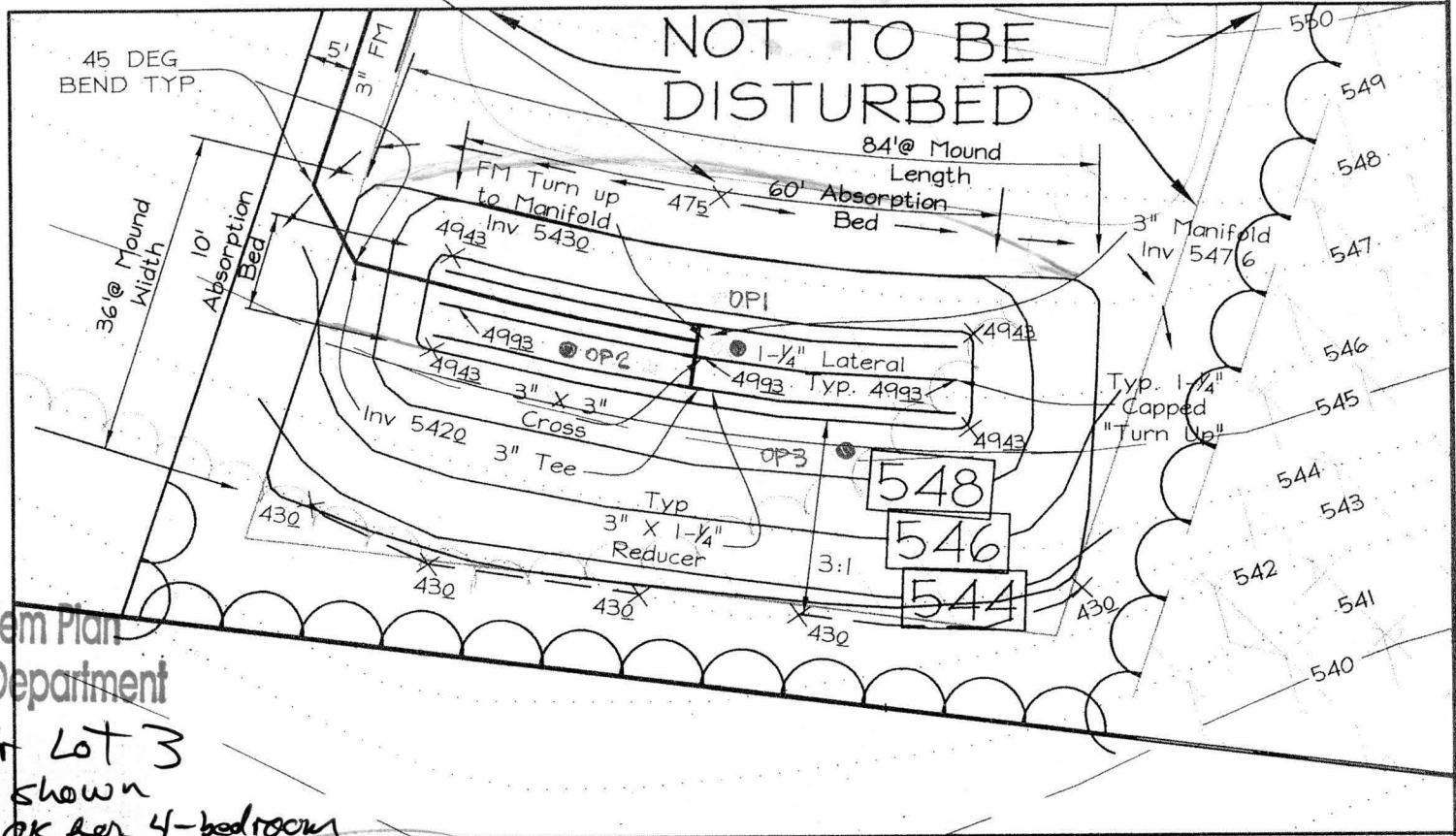
If you have any questions regarding this letter, please contact me at the Bureau of Environmental Health, phone 410-313-1771.

A handwritten signature in black ink, appearing to read 'Jeff Williams', is written over a horizontal line.

Jeff Williams  
Program Supervisor  
Well and Septic Program  
Bureau of Environmental Health

Provide Positive Drainage Around Uphill Side of Mound

\* For Substitute Effluent Pump; The septic installer shall provide Pump Specifications & Performance Curves at Time of Septic Permit Application



Approved Septic System Plan  
Howard County Health Department

Sand Mound for Lot 3  
approved as shown  
600 ft<sup>2</sup> Bed, OK for 4-bedroom

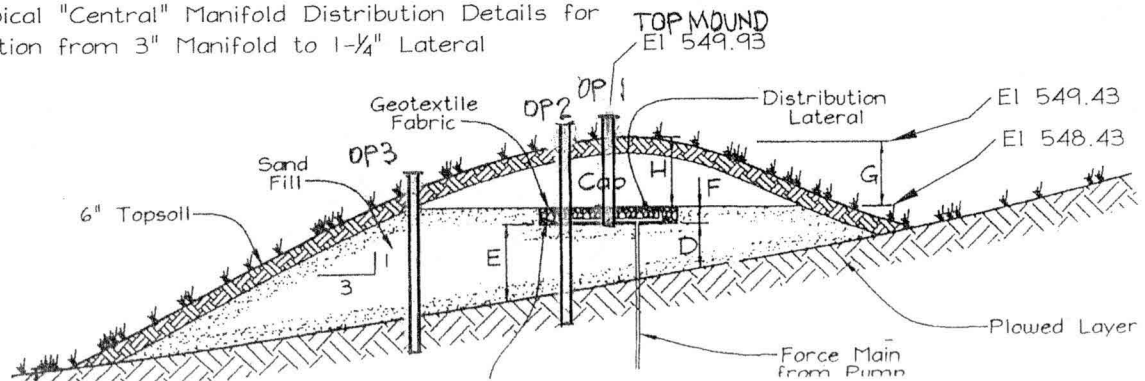
*[Signature]*  
Signature

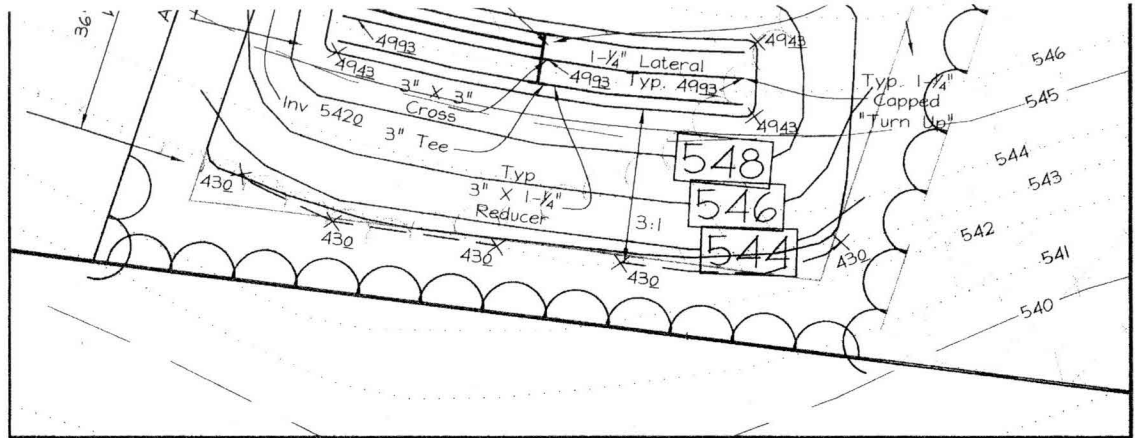
4/27/2012  
Date

### LOT 3 - SAND MOUND SYSTEM & DISTRIBUTION DETAILS

SCALE 1" = 20'

- 1. Refer to Typical "Central" Manifold Distribution Details for proper transition from 3" Manifold to 1-1/4" Lateral



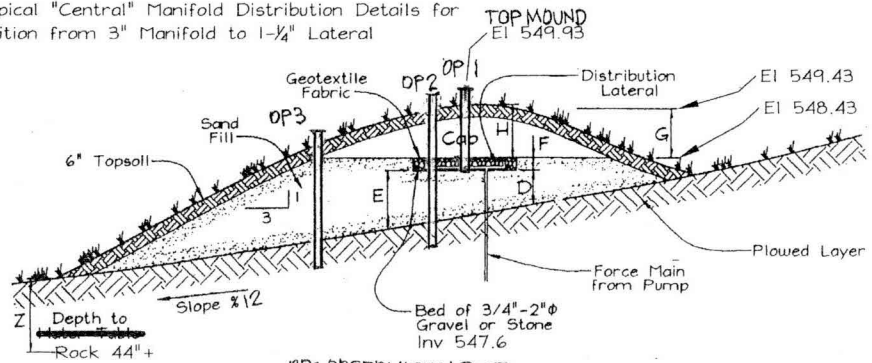


**LOT 3 - SAND MOUND SYSTEM & DISTRIBUTION DETAILS**

**NOTES:**

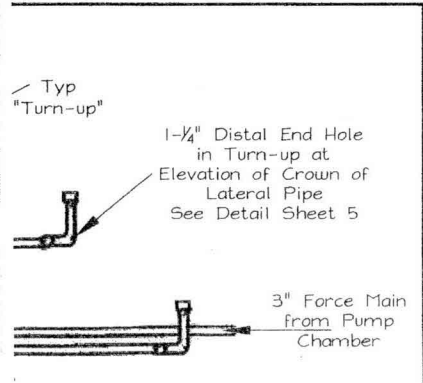
SCALE 1"=20'

- 1. Refer to Typical "Central" Manifold Distribution Details for proper transition from 3" Manifold to 1-1/4" Lateral



OP = OBSERVATION PORT

D = Upslope Sand Fill Depth(inches)	-----12"
E = Downslope Sand Fill Depth(inches)	-----26.4"
F = Bed Depth(inches)	-----10"
G = Cap and Topsoil Height at Bed Edges(inches)	-----12"
H = Cap and Topsoil Height at Bed Center(inches)	-----18"
Z = Depth to Water Table(inches)	-----N/A



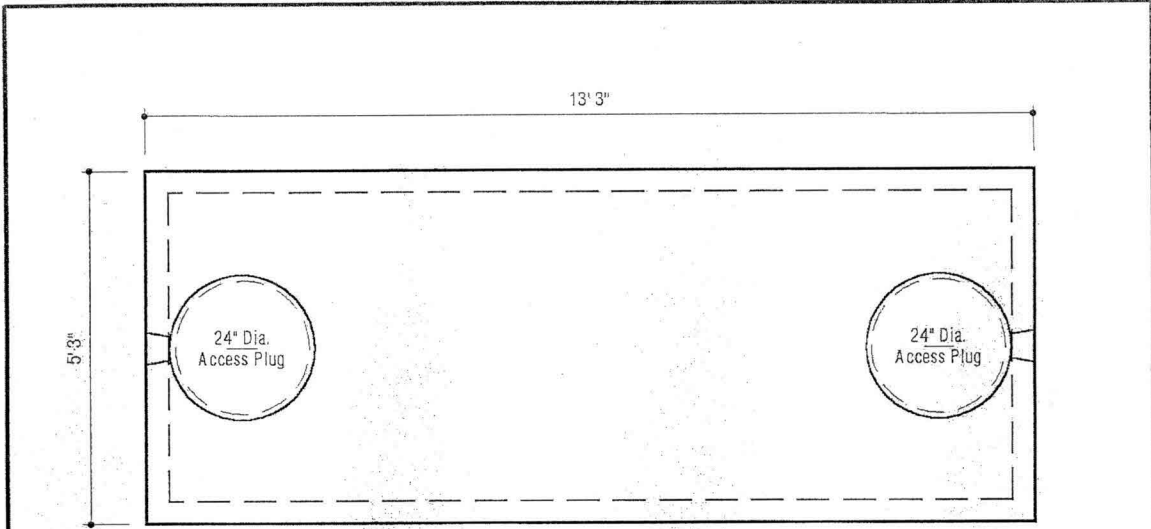
**LOT 3 - SAND MOUND DETAIL**

Not to Scale

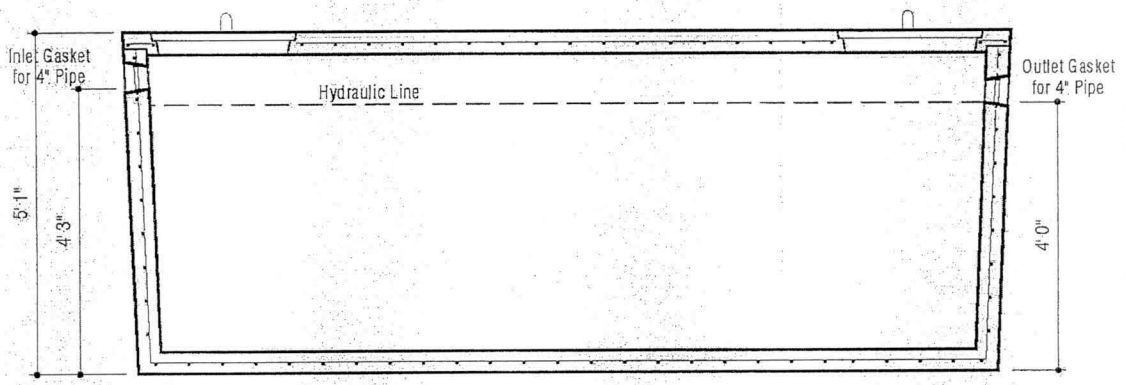
Ⓟ

REV. 4/24/12

OK RB 4/22/12



PLAN VIEW



SECTION A-A

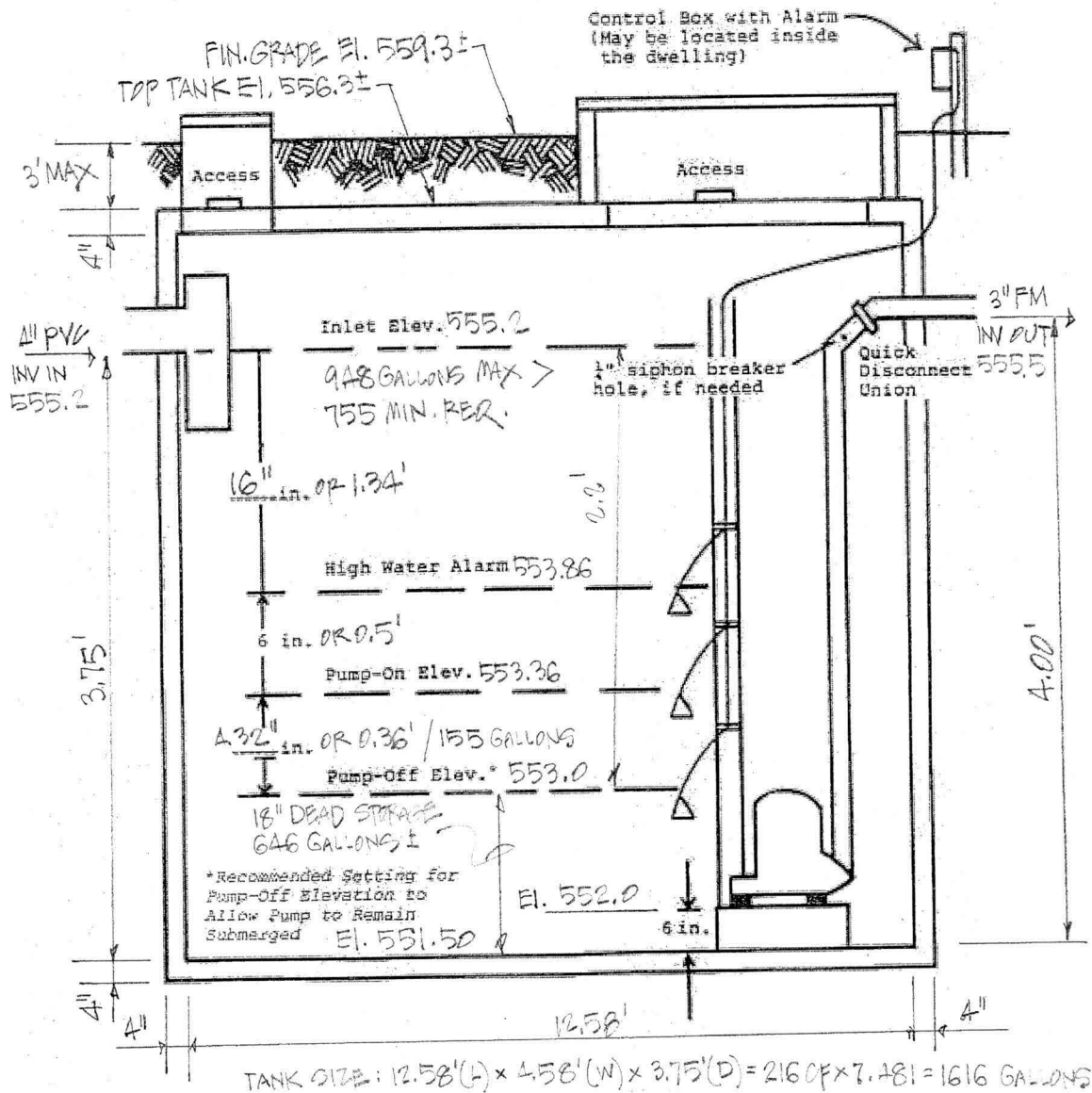
DESIGN DATA & GENERAL NOTES

- [1] Concrete strength  $f_c = 4,000$  p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/II per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A185. Min. 1-1/2" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, base, & top thickness.

<b>Mayer Bros., Inc.</b> 6264 Race Road Elkridge, Maryland 21075 Tel. 410.796.1434 Fax. 410.796.1438 <a href="http://www.mayerbrosprecast.com">www.mayerbrosprecast.com</a>	<b>1,500 GALLON SEPTIC/PUMP TANK</b> <b>1-Compartment</b>	
	<b>NON-TRAFFIC    MAX 3 ft. OF COVER</b>	
Dwg. No. 1500-1C	No Scale	Jan 1, 2000

Ⓢ

*OK RB 4/27/12*



TANK SIZE: 12.58'(L) x 4.58'(W) x 3.75'(D) = 216 CF x 7.481 = 1616 GALLONS

LOT 3  
 FIGURE 4.6 - TYPICAL PUMP CHAMBER DETAIL  
 1500 GALLON/MAYER BROS./DWG. 1500-1C

43  
 (9)

OK reb 4/22/12

# EQUATIONS FOR CALCULATING SAND MOUND DIMENSIONS

## Initial System - LOT 3

USE ALTERNATE SAND MEDIA = 1.0 gpd/ft<sup>2</sup>

4 Bedrooms  
150 gpd/BR  
600 gpd  
600 sqft max  
750 sqft max

1. Absorption Bed (sq.ft.)      a      x      b      =  $\frac{\text{Design Flow}}{1.0 \text{ gpd/ft}^2}$  =

Max 1.2      =      =      =

Min 0.8      =      =      =

**600 sq.ft.**

2. Bed Length (B)      **60 ft**      ----- 42 to 104 depends on site conditions

3. Bed width (A)      =  $\frac{\text{Bed Area}}{\text{Bed Length}}$       =  $\frac{600 \text{ sqft}}{60 \text{ ft}}$

**10.0      12 ft or less**

4. Upslope sand fill depth (D)      = 48 in - Zin.

**12      12 in min.**

5. Downslope sand fill depth (E)      = (12 A x % slope) + D in

A = 10.0      = **26.40**

% Slope = 0.12

*OK*  
*ref*  
*4/22/12*

6. Cap + topsoil at bed center (H)      = **18 inches**

7. Cap + topsoil at bed edge (G)      = **12 inches**

8. Total bed depth (F)      = **10 inches**

9. Sideslope setback (K)      =  $((D+E)/2) + 28 \text{ inches} \times 3$

D = 12      = **141.6 inches**

E = 26.4      = **11.80 ft**

10. Upslope setback (J)      = (22 in + D) x 3 x Upslope Corr Factor

D = 12      = **74.46 inches**

= **6.21 ft**

%	Factor
0	1
2	0.94
4	0.89
6	0.86
8	0.8
10	0.77
12	0.73

11. Downslope setback (I)      = (22 in + E) x 3 x Downslope Corr Factor

E = 26.4      = **227.964 inches**

= **19.00 ft**

%	Factor
0	1
2	1.06
4	1.14
6	1.22
8	1.32
10	1.44
12	1.57

12. Total Width of Mound (W)      = (12 A + J + I)

A = 10.00      = **422.42 inches**

J = 74.46      = **35.20 ft**

I = 227.96

12. Total Length of Mound (L)      = (12 B + K + K)

B = 60.00      = **1003.20 inches**

K = 141.60      = **83.60 ft**

# EQUATIONS FOR CALCULATING SAND MOUND DISTRIBUTION NETWORK

Absorption Bed Length = 60 ft. Central Feed

End Feed = <51 ft  
Central Feed = >41 ft

Use Central Feed

Lateral Length = 1/2 Bed Length - 1/2 Perforation Spacing

Perforation Spacing = 3.5 ft.

Lateral Length =  $[(0.5 \times 60 \text{ ft}) - (0.5 \times 3.5 \text{ ft})]$   
= 28.25  
= 28.25 ft

Number of Perforations =  $[(0.5 \times \text{Bed Length}) / \text{Perforation Spacing}]$   
= 8.57143 Perforations

Use 9 Perforations

Actual Perforation Spacing =  $[(0.5 \times \text{Bed Length}) / \text{Number of Perforations}]$   
= 3.33 ft.

= 3.00 ft. 4.00 inches

*OK  
Feb 4/27/12*

Diameter of Perforations = 5/16 "

Diameter of Laterals = 1-1/4 " Table 4.1 & Figure 4.4

L = 28.25 ft

Lateral Length	Diameter
L less than 23 feet	1
<span style="border: 1px solid black; padding: 2px;">L between 23 and 36</span>	1-1/4
L between 36 and 47	1-1/2
L between 47 and 50	2

Spacing & Number of Laterals =

Bed Width = 10.0 ft

*Spacing  
between*

Note: The number of laterals should be between two & four feet

Use 3 laterals = 3 2 sides = 6 @ 28.25  
Spacing between laterals = Bed width / # of laterals  
= 3.33 ft

*lateral  
To edge  
of bed*

Spacing between laterals = 0.5 x Space between Lateral  
= 1.6667

Bed Width Check = 10.000 ft

# EQUATIONS FOR CALCULATING SAND MOUND PUMPING SYSTEM

## 4.3.1 MINIMUM DOSE COMPUTATIONS

Min. Dose =  $> 1/6$  Design Flow = 100 gallons  
 or  
 (Volume of Force Main & Manifold) + (5 x Volume of the Laterals) =

Inv In Pump Chamber = ~~541.60~~ 555.20  
 Inv Manifold = ~~541.60~~ 541.60  
 + -7.80 feet difference  
 -7.80'

Pipe Volume per Table 4.2

Length of Force Main & Manifold = 230 ft of 3" Pipe  
 Length of Laterals = 169.5 ft of 1-1/4" Pipe

230	x	35.4	gal per 100 feet =	88.32 ✓
169.5	x	7.8	gal per 100 feet =	13.221
				101.541

= 88.32 + 13.221 x 5  
 = 154.425 gallons

Min. Dose = 154.4 gallons ✓

OK  
 1/28  
 4/27/12

## 4.3.2 PUMPING CHAMBER DESIGN

A. Watertight

B. Sizing: One Day Capacity = 600 gallons  
 Dose = 154.4 gallons  
 Total = 754.4 gallons ✓

## 4.3.3 PUMPING CHAMBER SIZING

A. Sizing: (Flow) # Laterals = 6  
 Perforation Size = 5/16  
 Perforation Discharge Rate = 1.63 gpm @ 2 feet head  
 # Perforations = 9  
 # Perforations = 54 5/16" Perforations

Flow = 54 x 1.63 gpm  
 Flow = 88.02 gpm @ 2 feet head

B. Design Head =

Static Head  
 + Friction Head  
 + 2 feet Head @ Distal end of Laterals  
 \_\_\_\_\_  
 Design Head

Elevation of Highest Component of Distribution System  
 - Relative Elevation of pump off float switch  
 \_\_\_\_\_

Static Head = Answer

555.5  
 548.0 Elevation of Highest Component of Distribution System  
 553.9 555.5 - Relative Elevation of pump off float switch

Static Head = 7.8 feet

2.5'



Friction Head =

	1-1/4	3	#	Equivalent Length of Pipe
90 Degree	4	10	0	0.0
45 Degree	2.4	6	6	36.0
90 Tee	6	10	3	45.0
Lateral Coupling	1.2	3	6	18.0
Run Coupling	1.2	3	19	57.0
				156 linear feet

Length of Force Main & Manifold = 230 ft of 3" Pipe  
 Friction Loss Length of Pipe Equiv. = 156 ft of 3" Pipe  
 386 ft of 3" Pipe @ 88.02 gpm

100 foot length of 3" Pipe = 1.66 foot friction loss (interpolated)  
 = 386 / 100  
 = 3.86 correction  
 1.66 x 3.86 = 6.41 foot friction loss

$$\frac{8.02}{10} = \frac{x}{0.35}$$

Design Head =

Static Head  
 + Friction Head  
 + 2 feet Head @ Distal end of Laterals

= 2.575 feet  
 = 6.41 feet  
 = 2 feet  
 10.91 feet

REQUIRED PUMP HORSEPOWER CALCULATION

$$= \frac{\text{Flow} \times \text{Total Dynamic Head} \times \text{Specific Gravity (Water @ 68degrees = 1)}}{3960 \times \text{efficiency}}$$

$$= \frac{88.02 \times 10.91 \times 1}{3960 \times 0.4}$$

$$= \frac{79.857 \times 10.91}{1584}$$

$$= \frac{0.62}{0.0504} \text{ Min Horsepower Pump Required}$$

OK  
 reb  
 4/27/12

Pump Selected or Equal

Gould - Model 3885 WE Series - WE Submersible Effluent Pump  
 Item # WE031H - 1/2 Horsepower, 115 Volt, 1 Phase  
 WE0712H 3/4 230

Dosing Schedule

$$= \frac{600 \text{ gpd}}{154.4 \text{ Dose}}$$

$$= 3.89$$

$$= 4 \text{ Events in 24 hours}$$

Pump Run Time

$$\frac{154.4 \text{ Dose} \times 4 \text{ Events}}{88.02 \text{ gpm}} = \frac{600 \text{ gallons}}{88.02 \text{ gpm}}$$

$$= 6.8 \text{ minutes / day}$$

$$= 1.8 \text{ minutes / dose event}$$

REV. 4/24/12





# ITT

## GOULDS PUMPS Wastewater

### APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

### SPECIFICATIONS

#### Pump

- Solids handling capabilities: 3/4" 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 1/3 – 1 1/2 HP models.
- Class F insulation on 2 HP models.

#### Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.

- 1/3 – 1 HP models have NEMA three prong grounding plugs.
- 1 1/2 HP and larger units have bare lead cord ends.

#### Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

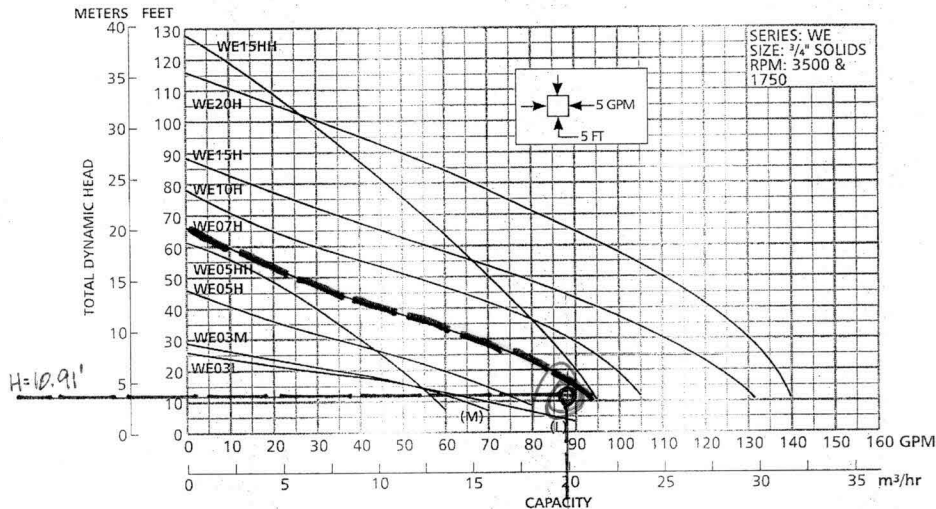
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

### AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards  
By Canadian Standards Association File #LR38549  
Goulds Pumps is ISO 9001 Registered.





**ITT**

**GOULDS PUMPS**  
Wastewater

**MODELS**

Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Efficiency %	Resistance		Power Cable Size	Weight (lbs.)
										Start	Line-Line		
WE0311L	0.33	1	115	1750	5.38	10.7	30.0	M	54	11.9	1.7	16/3	56
WE0318L			208			6.8	19.5	K	51	9.1	4.2		
WE0312L			230			4.9	14.1	L	53	14.5	8.0		
WE0311M			115			10.7	30.0	M	54	11.9	1.7		
WE0318M			208			6.8	19.5	K	51	9.1	4.2		
WE0312M			230			4.9	14.1	L	53	14.5	8.0		
WE0511H	0.5	3	115	3450	3.56	14.5	46.0	M	54	7.5	1.0	14/3	60
WE0518H			208			8.1	31.0	K	68	9.7	2.4	16/3	60
WE0512H			230			7.3	34.5	M	53	9.6	4.0	14/4	60
WE0538H			200			4.9	22.6	R	68	NA	3.8		
WE0532H			230			3.3	18.8	R	70	NA	5.8		
WE0534H			460			1.7	9.4	R	70	NA	23.2		
WE0537H	575	1.4	7.5	R	62	NA	35.3						
WE0511HH	0.5	1	115	3450	3.88	14.5	46.0	M	54	7.5	1.0	14/3	60
WE0518HH			208			8.1	31.0	K	68	9.7	2.4	16/3	60
WE0512HH			230			7.3	34.5	M	53	9.6	4.0	14/4	60
WE0538HH			200			4.9	22.6	R	68	NA	3.8		
WE0532HH			230			3.6	18.8	R	70	NA	5.8		
WE0534HH			460			1.8	9.4	R	70	NA	23.2		
WE0537HH	575	1.5	7.5	R	62	NA	35.3						
WE0718H	0.75	3	208	3450	4.06	11.0	31.0	K	68	9.7	2.4	14/3	70
WE0712H			230			10.0	27.5	J	65	12.2	2.7	14/4	70
WE0738H			200			6.2	20.6	L	64	NA	5.7		
WE0732H			230			5.4	15.7	K	68	NA	8.6		
WE0734H			460			2.7	7.9	K	68	NA	34.2		
WE0737H			575			2.2	9.9	L	78	NA	26.5		
WE1018H	1	3	208	3450	4.44	14.0	59.0	K	68	9.3	1.1	14/3	70
WE1012H			230			12.5	36.2	J	69	10.3	2.1	14/4	70
WE1038H			200			8.1	37.6	M	77	NA	2.7		
WE1032H			230			7.0	24.1	L	79	NA	4.1		
WE1034H			460			3.5	12.1	L	79	NA	16.2		
WE1037H			575			2.8	9.9	L	78	NA	26.5		
WE1518H	1.5	3	208	3450	4.56	17.5	59.0	K	68	9.3	1.1	14/3	80
WE1512H			230			15.7	50.0	H	68	11.3	1.6	14/4	80
WE1538H			200			10.6	40.6	K	79	NA	1.9		
WE1532H			230			9.2	31.7	K	78	NA	2.9		
WE1534H			460			4.6	15.9	K	78	NA	11.4		
WE1537H			575			3.7	13.1	K	75	NA	16.9		
WE1518HH	1.5	1	208	3450	5.50	17.5	59.0	K	68	9.3	1.1	14/3	80
WE1512HH			230			15.7	50.0	H	68	11.3	1.6	14/4	80
WE1538HH			200			10.6	40.6	K	79	NA	1.9		
WE1532HH			230			9.2	31.7	K	78	NA	2.9		
WE1534HH			460			4.6	15.9	K	78	NA	11.4		
WE1537HH			575			3.7	13.1	K	75	NA	16.9		
WE2012H	2	3	230	3450	5.38	18.0	49.6	F	78	3.2	1.2	14/3	83
WE2038H			200			12.0	42.4	K	78	NA	1.7	14/4	83
WE2032H			230			11.6	42.4	K	78	NA	1.7		
WE2034H			460			5.8	21.2	K	78	NA	6.6		
WE2037H			575			4.7	16.3	L	78	NA	10.5		

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*OK 4/27/12*