

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: 12/20/16 **ONSITE SEWAGE DISPOSAL SYSTEM** P 5-59883

APPROVAL DATE: 1/12/17 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 13548 Mitchells Way W. Friendship, MD 21794

SUBDIVISION: Cloverfield LOT: 8 TAX ID: 03348830

CONTRACTOR: Catonsville Homes. LLC EMAIL: fpotepan@catonsvillehomes.com

CONTRACTOR ADDRESS: 1175 Stratfield Court Marriottsville MD 21104 PHONE: 410-442-2211

PROPERTY OWNER: Cloverfield Pfefferkorn LLC EMAIL: pwalter@catonsvillehomes.com

OWNER ADDRESS: 1175 Stratfield Court Marriottsville MD 21104 PHONE: 410-442-2211

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: _____

PUMP MODEL: n/a PUMP SIZE n/a PUMP TANK CAPACITY: n/a

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>157</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>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:	<i>May need pump tank due to elevation drop on wall check.</i>	

ISSUED BY: Robert Freemon ISSUE DATE: 1/9/16 EXPIRATION DATE: 1/9/17

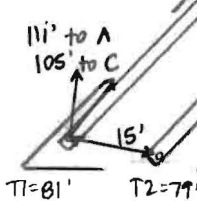
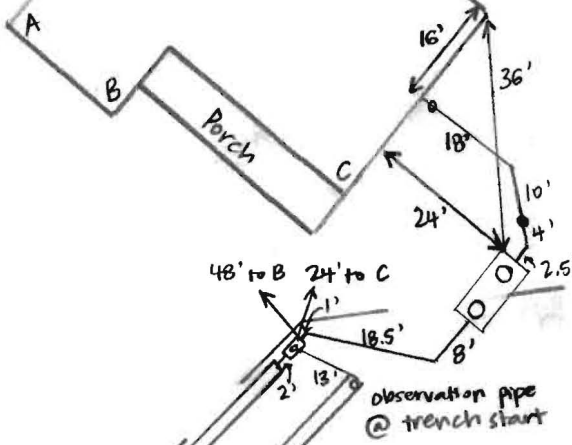
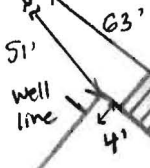
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
-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

W HO-95-0368

NOT TO SCALE



ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		160'
ABSORPTION AREA		480' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TDP
TANK LID DEPTH	2-2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	12-5-16 (STAMP)

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	

PRE-CONSTRUCTION:

11/10/17 Met WTC on site for layout. All SDA stakes and tank stakes present. Shot contour and laid out 2x79' trenches. Shot elevation of likely depth of pipe coming out of house and sewer line should make 2% fall to tank with 3' cover. (SC)

INSTALLATION:

1/10/17 Tank set. House connection made and sewer line run to tank. (SC)
 1/11/17 WTC digging T2, using laser to check depths. 8' bottom, 3' wide, 4' inlet. D-box installed + connected to tank. (SC)
 1/11/17 WTC digging and adding stone to T1. (SC)
 1/12/17 T1 finished, left open at D-box. Levelled speed levelers in D-box. (SC)

FINAL INSPECTOR

Sarah Collins

DATE OF APPROVAL

1/12/17

Williams, Jeffrey

From: Dave Harward, III <DaveH@fcc-eng.com>
Sent: Monday, May 16, 2016 12:30 PM
To: Williams, Jeffrey
Subject: Cloverfield, Lot 8

Re: Cloverfield - Lot 8 - 13548 Mitchells Way, West Friendship MD 21794

Jeff,

Please provide the septic data sheet for the above referenced property, so we can design the septic.

Thank You,
Dave



Freemon, Robert

From: Freemon, Robert
Sent: Tuesday, July 19, 2016 10:43 AM
To: 'Pam Walter'; 'fpotepan@catonsvillehomes.com'
Subject: FW: 13548 Mitchells Way
Attachments: Spec Sheet.pdf; Well & Septic SETBACKS.pdf

From: Freemon, Robert
Sent: Thursday, July 07, 2016 10:32 AM
To: 'lwenrich@plymouthroadarchitects.com'
Subject: 13548 Mitchells Way

Hi,

I am reviewing the building permit B16002792 for 13548 Mitchells Way. On the Site Plan & Plot Plan for BAT Installation Lot 8 the house needs to be at least 20ft from the SDA. We have a setback of 20ft between a new foundation and the SDA. The Septic Line Profile shows the inlet of the trench line to be 5 feet deep. Trenches are required to be no more than 4 feet deep as shown on the spec sheet. If you have any questions let me know.

Robert Freemon
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
Well and Septic Program
Phone: 410-313-6357
Email: rfreemon@howardcountymd.gov



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Twitter: HowardCoHealthDep

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

MEMORANDUM

TO: CLSI
439 East Main Street
Westminster, MD 21157

FROM: Robert Freemon *RFE*
Well & Septic Program

RE: 13548 Mitchells Way
West Friendship, MD 21794
"OSDS Plan"

DATE: 1/3/2016

I have reviewed the OSDS Plan for Cloverfield Sec. 1 Lot 8 and here are my comments.

- The internal wall separating the two compartments cannot contain a baffle. There must be a 2 inch slot.
- The inlet vertical baffle must be 6 inches in diameter.
- Ex. Well needs to be visible.
- Relative replacement trench elevations need to be shown.

Red Lined 1/9/17
RFE

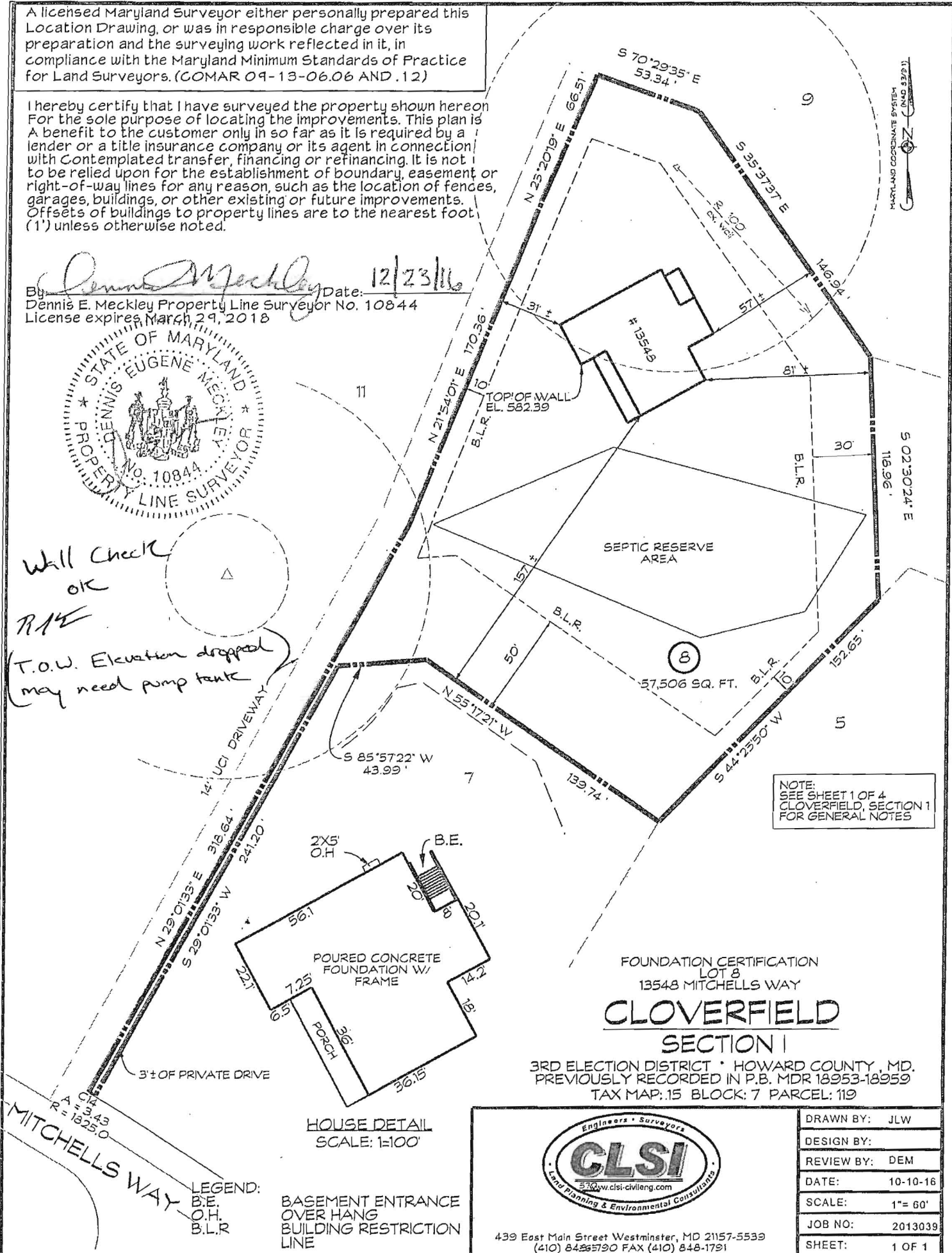
A licensed Maryland Surveyor either personally prepared this Location Drawing, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)

I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only in so far as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1') unless otherwise noted.

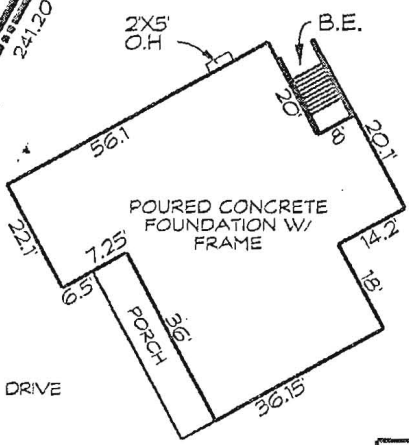
By Dennis E. Meckley Date: 12/23/16
 Dennis E. Meckley Property Line Surveyor No. 10844
 License expires March 29, 2018



Wall Check
 OK
 RAE
 (T.O.W. Elevation dropped
 may need pump tank)



NOTE:
 SEE SHEET 1 OF 4
 CLOVERFIELD, SECTION 1
 FOR GENERAL NOTES



HOUSE DETAIL
 SCALE: 1:100

LEGEND:
 B.E.
 O.H.
 B.L.R.

BASEMENT ENTRANCE
 OVER HANG
 BUILDING RESTRICTION
 LINE

FOUNDATION CERTIFICATION
 LOT 8
 13548 MITCHELLS WAY
CLOVERFIELD
 SECTION I

3RD ELECTION DISTRICT • HOWARD COUNTY, MD.
 PREVIOUSLY RECORDED IN P.B. MDR 18953-18959
 TAX MAP: 15 BLOCK: 7 PARCEL: 119



439 East Main Street Westminster, MD 21157-5539
 (410) 848-5790 FAX (410) 848-1791

DRAWN BY:	JLW
DESIGN BY:	
REVIEW BY:	DEM
DATE:	10-10-16
SCALE:	1" = 60'
JOB NO:	2013039
SHEET:	1 OF 1

Freemon, Robert

From: Freemon, Robert
Sent: Monday, January 09, 2017 1:28 PM
To: 'Linda D. Alexander'
Subject: RE: 13548 Mitchells Way
Attachments: Cloverfield Lot 8.pdf

Linda- here is a copy of the OSDS Plan

Robert Freemon
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
Well and Septic Program
Bureau of Environmental Health
Phone: 410-313-6357
Email: rfreemon@howardcountymd.gov
<https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic>

From: Linda D. Alexander [<mailto:lalexander@clsimail.com>]
Sent: Monday, January 09, 2017 9:44 AM
To: Freemon, Robert
Subject: RE: 13548 Mitchells Way
Importance: High

Yes
That would be fine. And could you send me a copy of what you have redline so that I can make the change to our file.

Linda D. Alexander
Associate / Senior Project Manager

CLSI

439 East Main Street, Westminster, MD. 21157
lalexander@clsimail.com
direct: 410-871-4475
cell: 443-375-9903

From: Freemon, Robert [<mailto:rfreemon@howardcountymd.gov>]
Sent: Monday, January 9, 2017 9:21 AM
To: Linda D. Alexander <lalexander@clsimail.com>
Cc: Linda D. Alexander <lalexander@clsimail.com>
Subject: 13548 Mitchells Way

Hey Linda,
Instead of having new plans submitted for Cloverfield Lot 8 would it be ok with you if I red lined the plan for you? I would only need to red line the 2 inch slot in the septic tank and the inlet vertical baffle to a 6" diameter. Let me know if you have any questions. Thanks.

Robert Freemon

Howard County Health Department

8930 Stanford Blvd. Columbia, MD 21045

Well and Septic Program

Bureau of Environmental Health

Phone: 410-313-6357

Email: rfreemon@howardcountymd.gov

<https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic>



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

MEMORANDUM

TO: CLSI
439 East Main Street
Westminster, MD 21157

FROM: Robert Freemon *RF*
Well & Septic Program

RE: 13548 Mitchells Way
West Friendship, MD 21794
"OSDS Plan"

DATE: 1/3/2016

I have reviewed the OSDS Plan for Cloverfield Sec. 1 Lot 8 and here are my comments.

- The internal wall separating the two compartments cannot contain a baffle. There must be a 2 inch slot.
- The inlet vertical baffle must be 6 inches in diameter.
- Ex. Well needs to be visible.
- Relative replacement trench elevations need to be shown.

RECEIPT DATE: 12/12/12

P 544434

INSTALLATION
APPROVAL DATE: _____

PERMIT

A _____

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

PROPERTY OWNER: Cloverfield Pfefferkorn

OWNER'S
ADDRESS: 11175 Stratfield Court, Marriottsville, MD 21104 PHONE: 410-442-2211

ADDRESS: 13548 Mitchells Way TAX ACC'T #: 03-348830

SUBDIVISION: Cloverfield LOT: 8

SEPTIC TANK CAPACITY (GALLONS): TBD

PUMP CHAMBER CAPACITY (GALLONS): TBD

NUMBER OF BEDROOMS: TBD APPLICATION RATE: TBD

SQUARE FOOTAGE OF HOUSE: TBD

LINEAR FEET OF TRENCH REQUIRED: TBD

TRENCHES:	TO BE DETERMINED ON APPROVED SUPPLEMENTAL PLAN
LOCATION:	TO BE DETERMINED ON APPROVED SUPPLEMENTAL PLAN
NOTES:	A SUPPLEMENTAL PLAN PROVIDING SYSTEM DETAILS IS REQUIRED PRIOR TO HEALTH APPROVAL OF BUILDING PERMIT, PLOT PLAN, AND WALL CHECK. AN APPROVED WALL CHECK IS REQUIRED PRIOR TO PRE-CONSTRUCTION INSPECTION. THE OSDS PERMITTED HEREIN IS NOT SUBJECT TO REVISIONS TO COMAR 26.04.02 EFFECTIVE 1/1/2013 ON THE CONDITION THAT FINAL HEALTH APPROVAL OF THE INSTALLATION IS GRANTED PRIOR TO PERMIT EXPIRATION.

ISSUED BY: JEFF WILLIAMS ISSUE DATE: 12/12/12 EXPIRATION DATE: 12/12/13

- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET 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

NEITHER THE HOWARD COUNTY COUNCIL OR 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 FOR INSPECTION OF SEPTIC SYSTEM.

December 6, 2016

Mr. Jeff Williams
Program Manager, Well & Septic Program
Bureau of Environmental Health
8930 Stanford Boulevard
Columbia, MD 21045

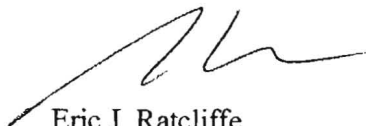
Re: Cloverfield Lot 8
13548 Mitchells Way, W. Friendship, MD 21794
B16002792

Dear Mr. Williams,

We would like to revise the septic system to be installed on our lot from the BAT unit which was previously approved, to the traditional septic tank.

Attached please find the revised plans for your review.

Sincerely,



Eric J. Ratcliffe
Lot Owner



Lindsay A. Ratcliffe
Lot Owner

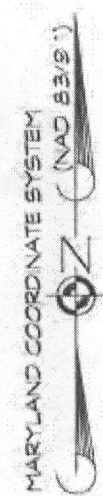
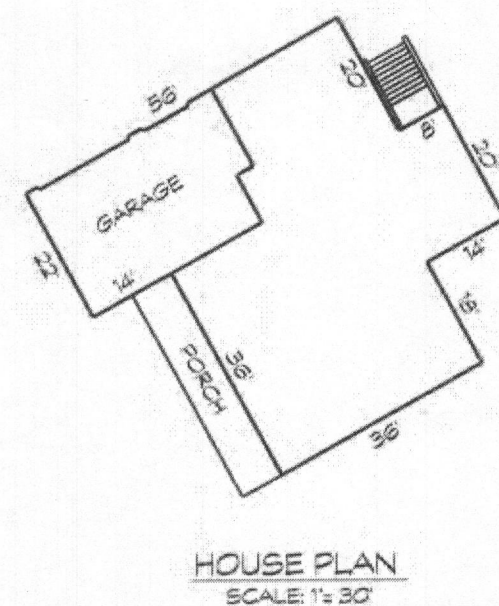
Cc: Pam Walter, Catonsville Homes, LLC

LEGEND:

- X 582.5 SPOT ELEVATION
- 2.5% FLOW PATH & SLOPE
- EX. WELL
- PERC TEST LOCATION

CURVE DATA

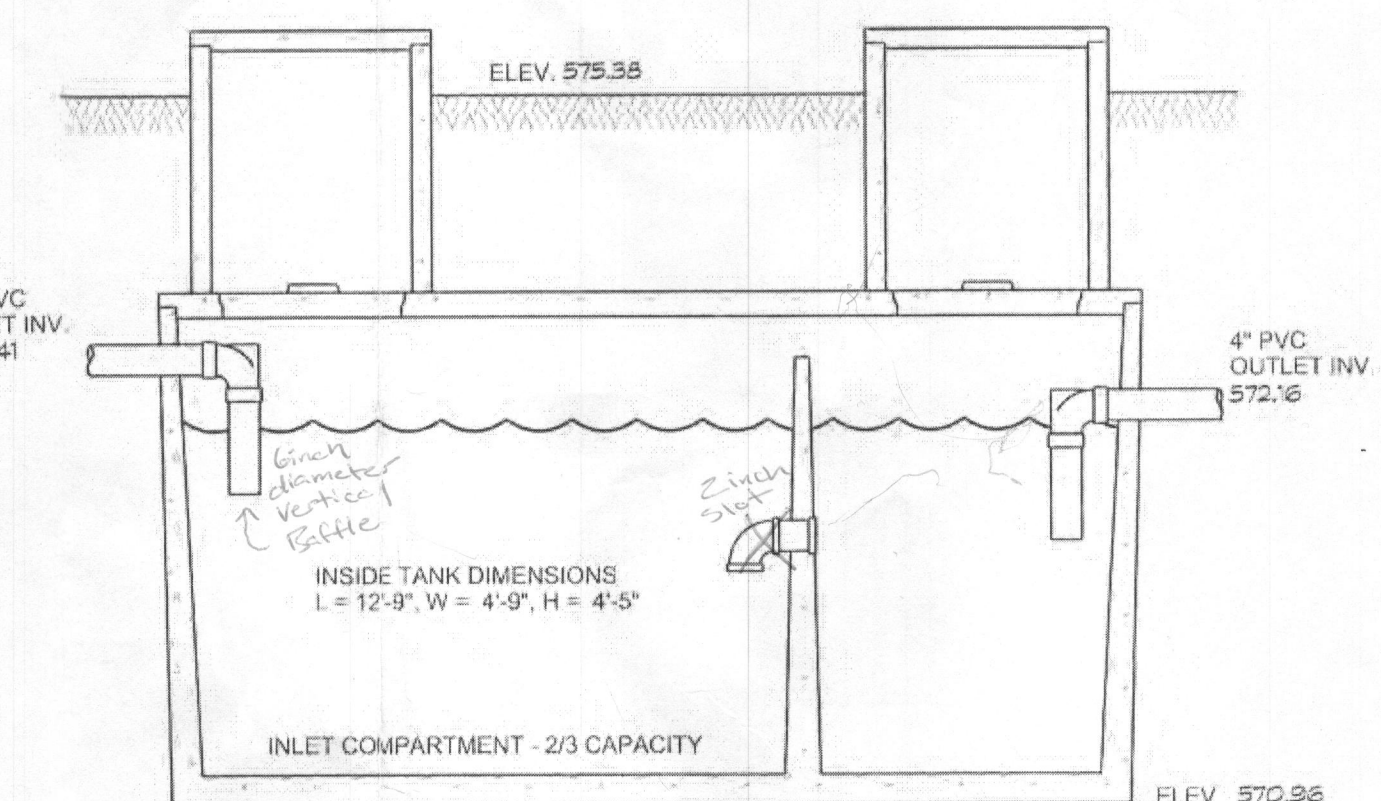
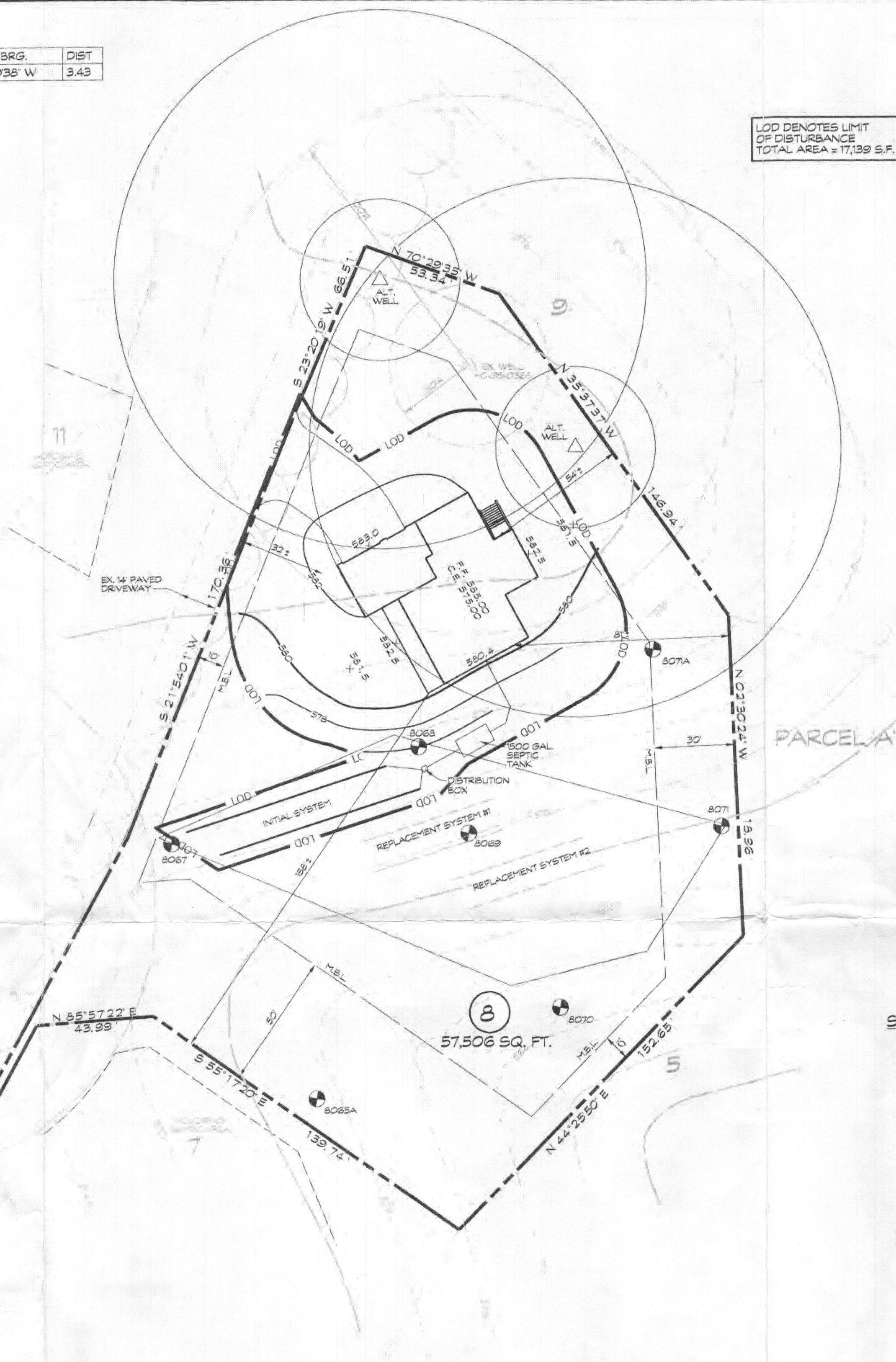
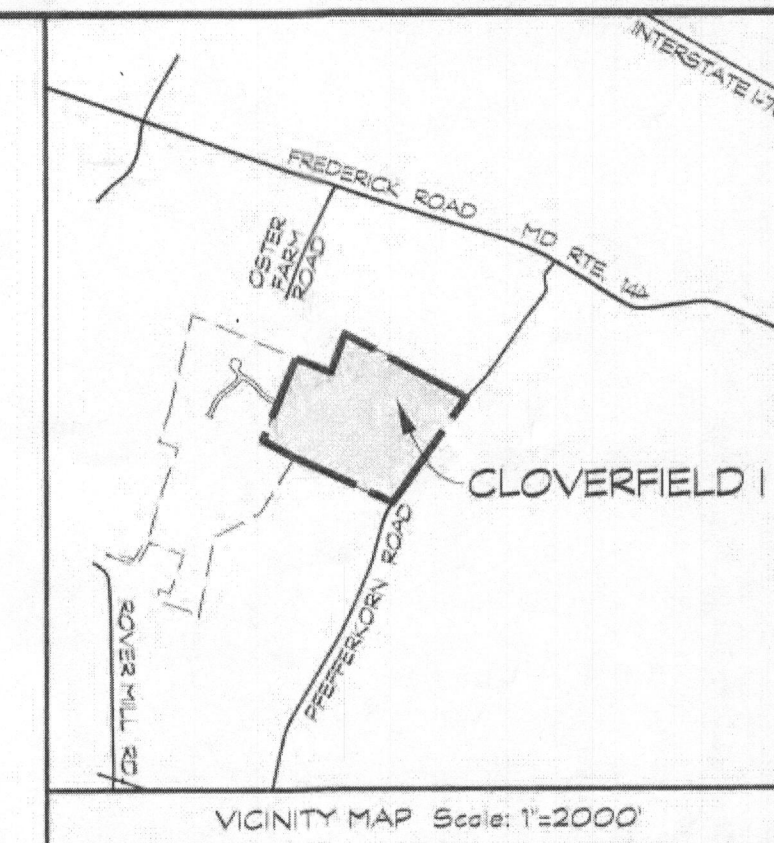
NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C14	1825.00	3.43	00°08'28"	1.72	N 58°39'36" W	3.43



LOD DENOTES LIMIT OF DISTURBANCE
TOTAL AREA = 17,139 S.F.

GENERAL NOTES

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOOL EXTENDED DETENTION FACILITIES AND GRASSED SWALES PER THE RECORDED PLAN NO. 18353.
2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
4. EXISTING WELL LOCATION IS FIELD LOCATED.



NOTE:
THE SEPTIC TANK RISERS TO TERMINATE AT LEAST 6" ABOVE FINAL GRADE.

SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 5
AVERAGE PERCOLATION TEST TIME =
APPLICATION RATE = 0.8
DESIGN FLOW: 150 GALS x 5 BEDROOM =
750 GAL/DAY
INITIAL SYSTEM
750 GAL/DAY / 0.8 GAL / DAY/SQ. FT. =
937.5 SQ. FT. USE 938 SQ. FT.
938 SQ. FT. / 3 FT. = 312.67 USE 313 L.F. OF TRENCH
313 L.F. x 0.50 = 156.5 L.F. USE 157 L.F.
USE 2 - 79 L.F. OF TRENCH FOR INITIAL SYSTEM

REPLACEMENT SYSTEM
750 GAL/DAY / 1.2 GAL / DAY/SQ. FT. =
625 SQ. FT.
625 SQ. FT. / 3 FT. = 208.3 L.F. OF TRENCH USE 209 L.F.
209 L.F. x 0.50 = 104.5 L.F. USE 105 L.F.
USE 2 - 53 L.F. OF TRENCH FOR EACH REPLACEMENT SYSTEM

TRENCH CHART

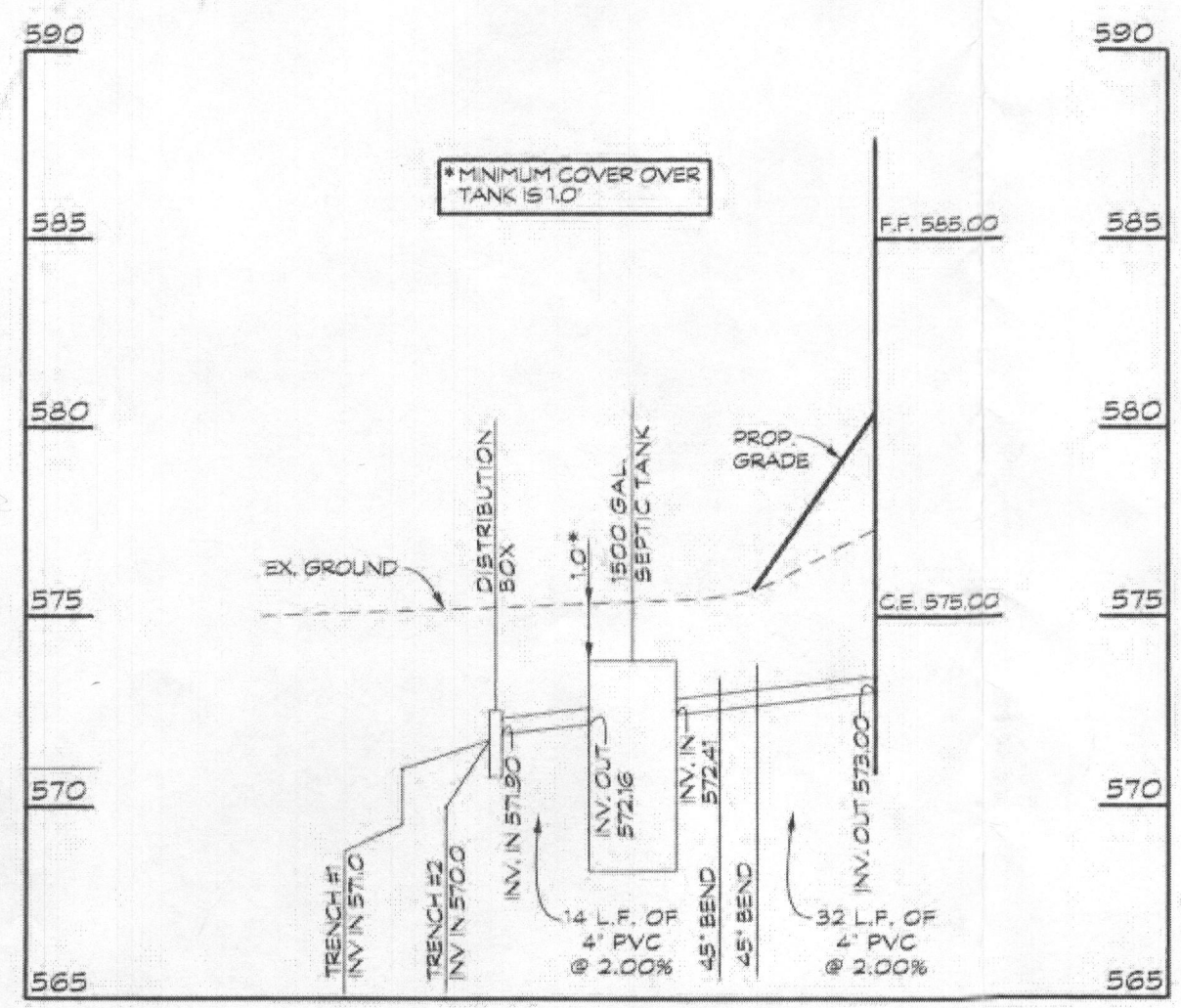
TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	575.0	571.0	567.0
2	574.0	570.0	566.0

Approved Septic System Plan
Howard County Health Department
Signature: _____ Date: 11/9/17

NOTE:
SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM AMENDED PERCOLATION CERTIFICATION PLAN DATED APRIL 29, 2010 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT MAY 26, 2010.

MITCHELLS WAY

PLAN
SCALE: 1/32



PLAN NOTES

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. THE WELL (TAG # HO-95-0368) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 410-796-1434.
5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

OWNER/DEVELOPER
SPRING MILL LLC
P.O. BOX 4 17
ELICOTT CITY, MD 21041

ONSITE SEWAGE DISPOSAL SYSTEM
DESIGN PLAN AND PLOT PLAN
SPRING MILL LLC
13548 MITCHELLS WAY
TAX ACCOUNT NO.: 34-8830
LOT 3

CLOVERFIELD- SECTION I

3RD ELECTION DISTRICT • HOWARD COUNTY, MD.
TAX MAP: 15 BLOCK: 8 PARCEL: 4

Engineers • Surveyors
CLSI
www.clsi-civileng.com
Land Planning & Environmental Consultants

439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

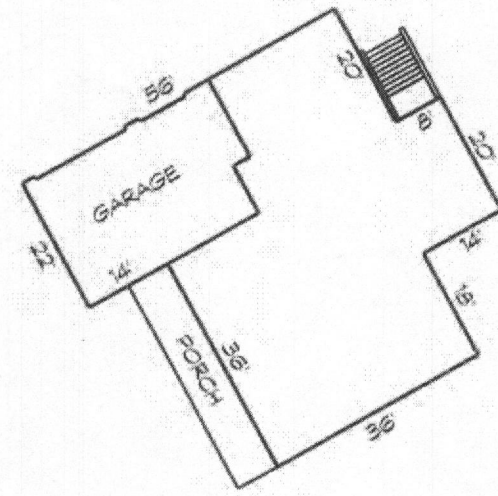
Date	Revisions	Drawn By: BM
7/26/16	REVISED PER ROBERT FREEMAN EMAIL DATED 7/7/16	Designed By:
12/8/16	REVISED BAT TANK TO SEPTIC TANK	Reviewed By: LDA
		Date: 6/16/16
		Scale: AS SHOWN
		Job No.: 2013039
		Sheet: 1 OF 1

LEGEND:

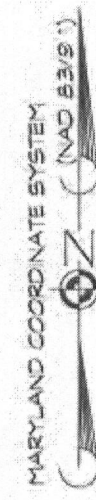
- ⊗ SPOT ELEVATION
- FLOW PATH & SLOPE
- ▲ EX. WELL
- ⊙ PERC TEST LOCATION

CURVE DATA

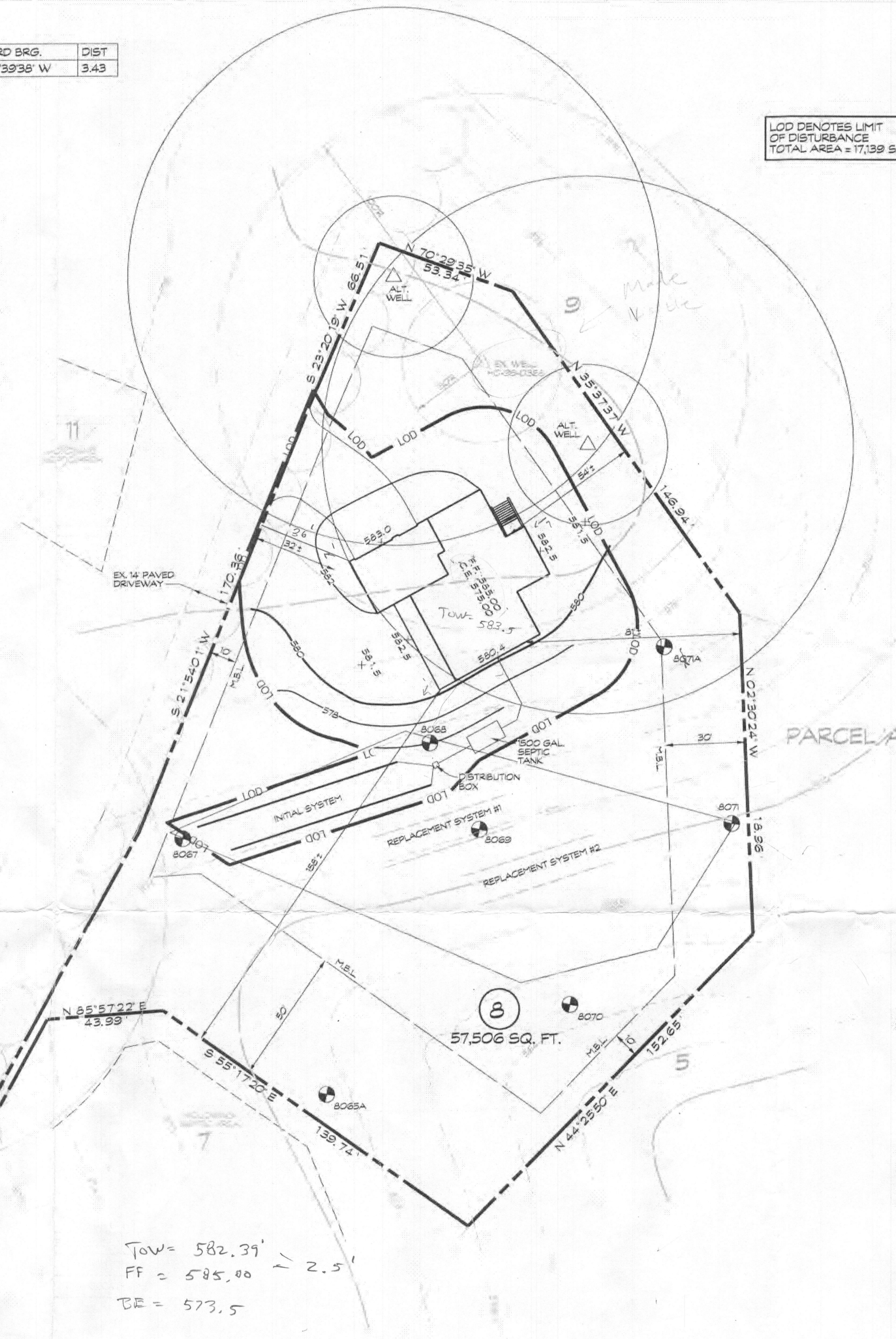
NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C14	1825.00	3.43	00°06'28"	1.72	N 58°39'38" W	3.43



HOUSE PLAN
SCALE: 1" = 30'

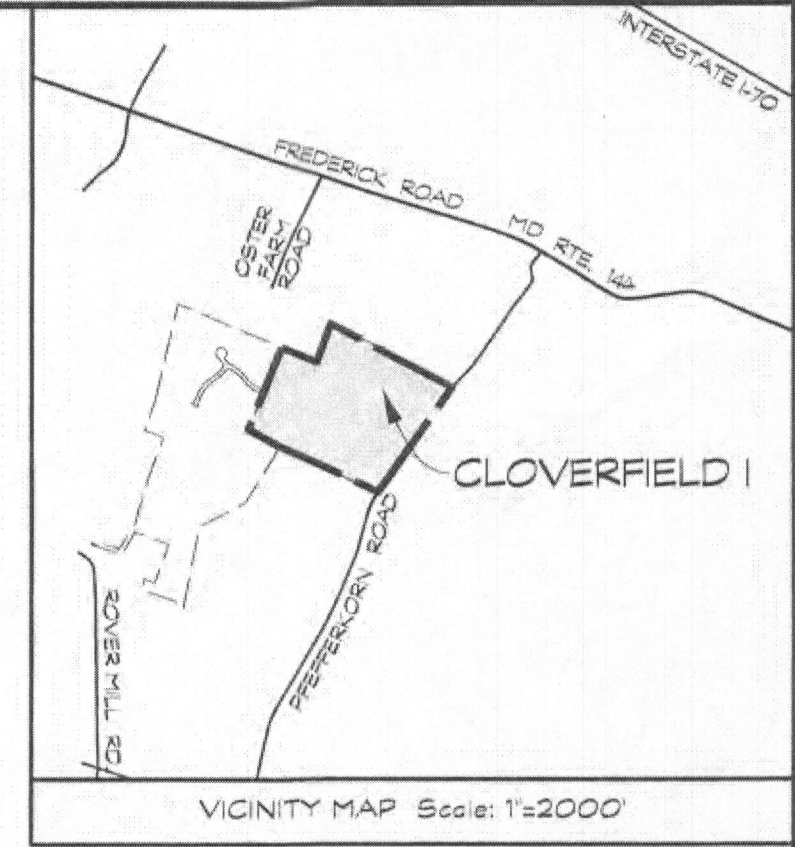


LOD DENOTES LIMIT OF DISTURBANCE
TOTAL AREA = 17,139 S.F.

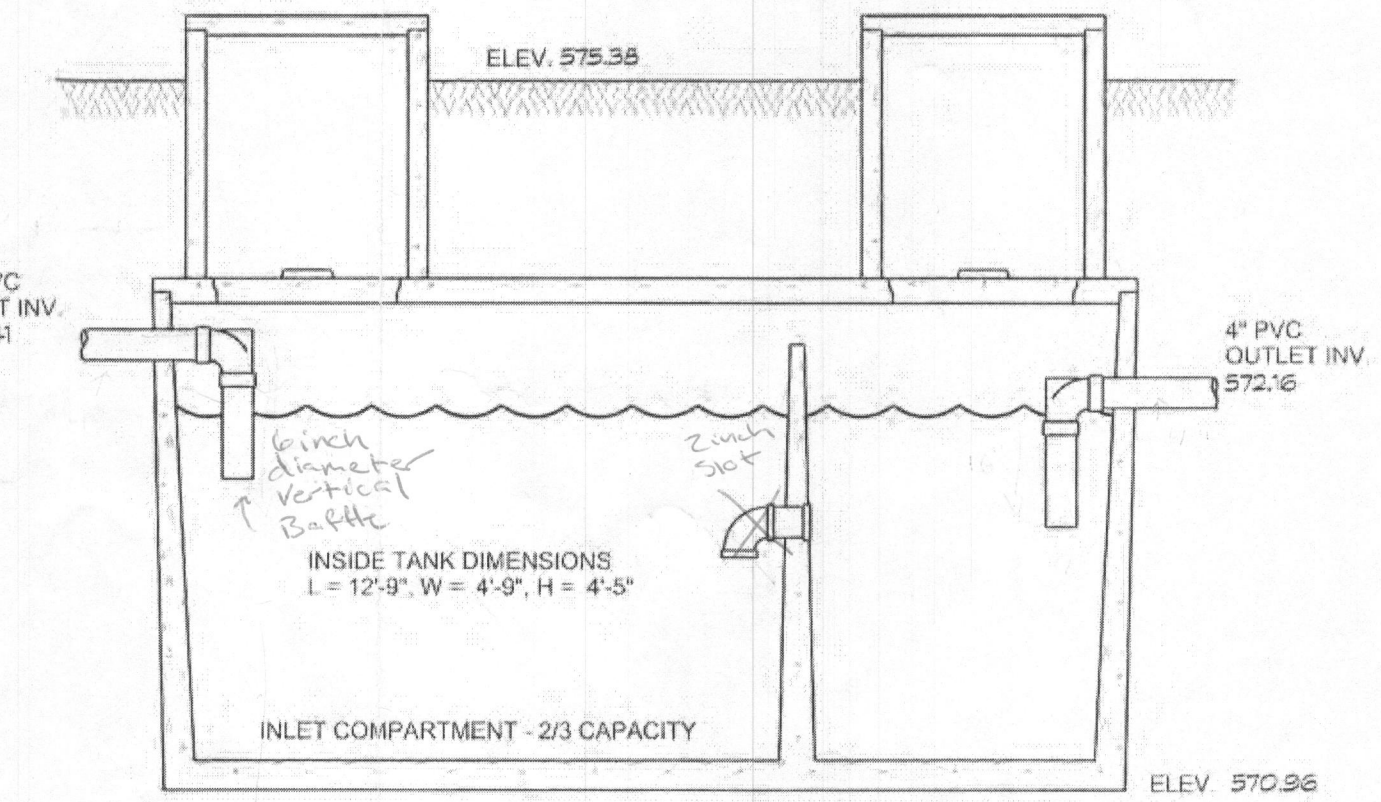


GENERAL NOTES

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOOL EXTENDED DETENTION FACILITIES AND GRASSSED SWALES PER THE RECORDED PLAT NO. 18953.
2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
4. EXISTING WELL LOCATION IS FIELD LOCATED.



VICINITY MAP Scale: 1"=2000'



TOP SEAM
1500 GAL SEPTIC TANK
(NOT TO SCALE)

NOTE:
THE SEPTIC TANK RISERS TO TERMINATE AT LEAST 6" ABOVE FINAL GRADE.

SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 5
AVERAGE PERCOLATION TEST TIME =
APPLICATION RATE = 0.8
DESIGN FLOW: 150 GALS x 5 BEDROOM = 750 GAL/DAY
INITIAL SYSTEM
750 GAL/DAY / 0.8 GAL / DAY/SQ. FT. = 937.5 SQ. FT. USE 938 SQ. FT.
938 SQ. FT. / 3 FT. = 312.67 USE 313 LF. OF TRENCH
313 LF. x 0.50 = 156.5 LF. USE 157 LF.
USE 2 - 79 LF. OF TRENCH FOR INITIAL SYSTEM
REPLACEMENT SYSTEM
750 GAL/DAY / 1.2 GAL / DAY/SQ. FT. = 625 SQ. FT.
625 SQ. FT. / 3 FT. = 208.3 LF. OF TRENCH USE 209 LF.
209 LF. x 0.50 = 104.5 LF. USE 105 LF.
USE 2 - 53 LF. OF TRENCH FOR EACH REPLACEMENT SYSTEM

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	575.0	571.0	567.0
2	574.0	570.0	566.0

NOTE:
SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM AMENDED PERCOLATION CERTIFICATION PLAN DATED APRIL 29, 2010 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT MAY 26, 2010.

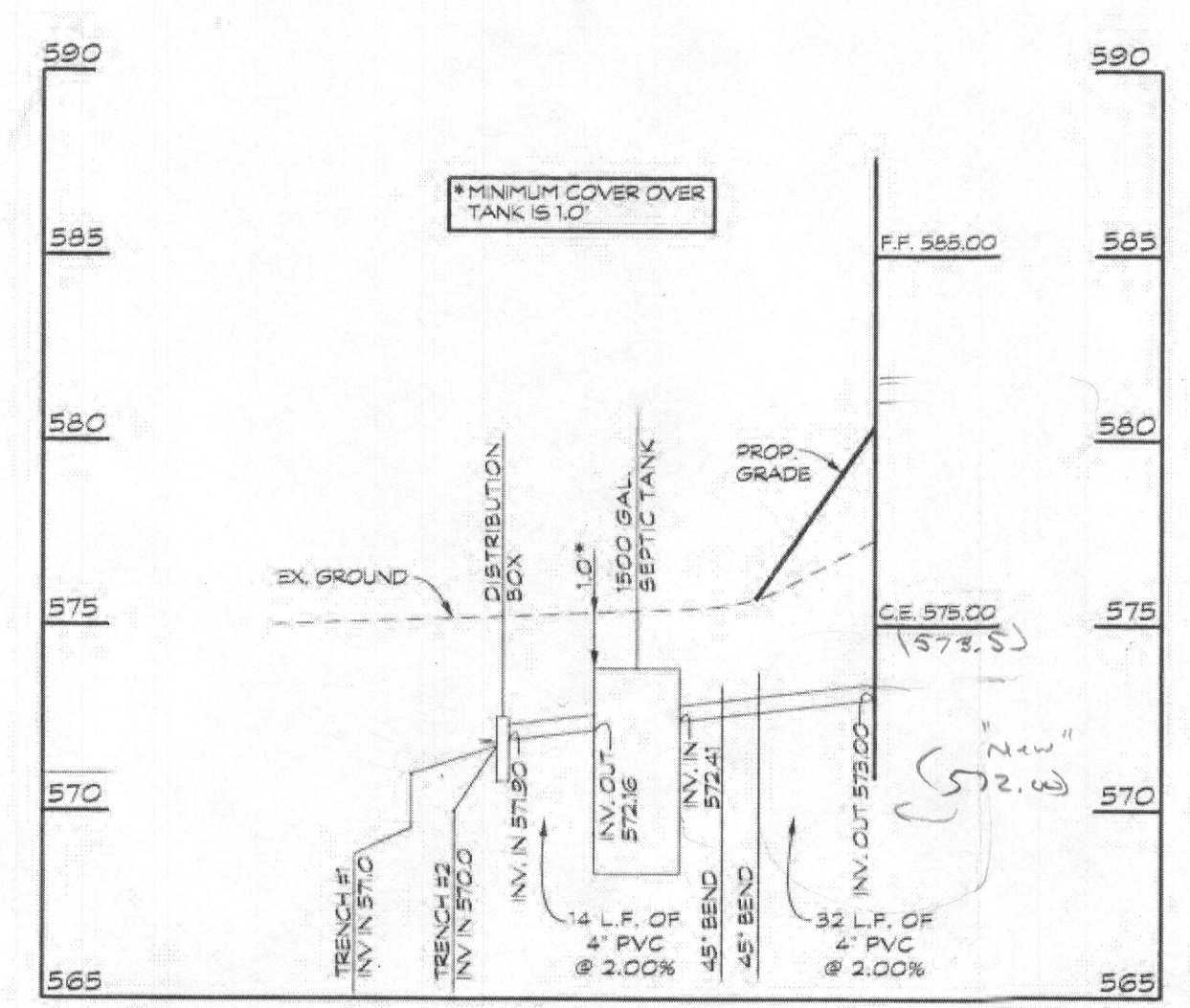
Approved Septic System Plan
Howard County Health Department
Robert Freeman 1/9/17
Signature Date

Tow = 582.39'
FF = 585.00
BR = 573.5

PLAN SCALE: 1" = 30'

⊙ A → House
well → House
S.T. → House
Fall from house to tank.

INV at 5' below = 573.00



SEPTIC LINE PROFILE
SCALE: HORIZ. 1" = 30' VERT. 1" = 5'

PLAN NOTES

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. THE WELL (TAG # HO-95-0368) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 410-798-1434.
5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

OWNER/DEVELOPER
SPRING MILL LLC
P.O. BOX 417
ELLCOTT CITY, MD 21041

ONSITE SEWAGE DISPOSAL SYSTEM
DESIGN PLAN AND PLOT PLAN
SPRING MILL LLC
13548 MITCHELLS WAY
TAX ACCOUNT NO.: 348830
LOT 8
CLOVERFIELD- SECTION I
3RD ELECTION DISTRICT * HOWARD COUNTY, MD.
TAX MAP: 15 BLOCK: 8 PARCEL: 4

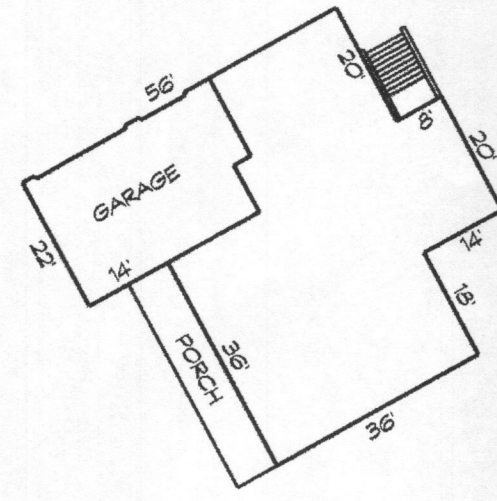
Linda D. Alexander
12-9-16
Linda D. Alexander
Qualified Professional

CLSI
Civil & Environmental Consultants
www.clsi-civileng.com
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By
7/28/16	REVISED PER ROBERT FREEMAN EMAIL DATED 7/7/16	BM
12/8/16	REVISED BAT TANK TO SEPTIC TANK	LDA
		Date: 6/16/16
		Scale: AS SHOWN
		Job No.: 2013039
		Sheet: 1 OF 1

- LEGEND:**
- \times 582.5 SPOT ELEVATION
 - \rightarrow 2.5% FLOW PATH & SLOPE
 - \blacktriangle EX. WELL
 - \odot PERC TEST LOCATION

CURVE DATA						
NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C14	1825.00	3.43	00°06'28"	1.72	N 58°39'38" W	3.43



HOUSE PLAN
SCALE: 1/80

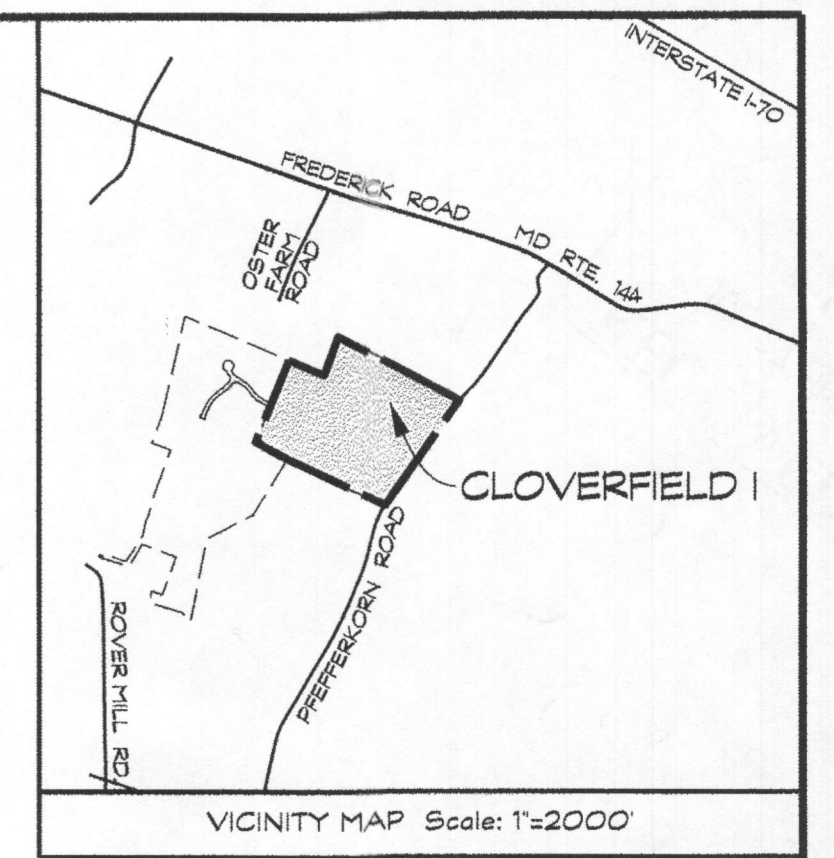
MARYLAND COORDINATE SYSTEM (NAD 83/99)



LOD DENOTES LIMIT OF DISTURBANCE
TOTAL AREA = 17,139 S.F.

GENERAL NOTES

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOOL EXTENDED DETENTION FACILITIES AND GRASSED SWALES PER THE RECORDED PLAN NO. 18953.
2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
4. EXISTING WELL LOCATION IS FIELD LOCATED.



VICINITY MAP Scale: 1=2000

Approved Septic System Plan
Howard County Health Department
Robert J. ... 7/27/16
Signature Date

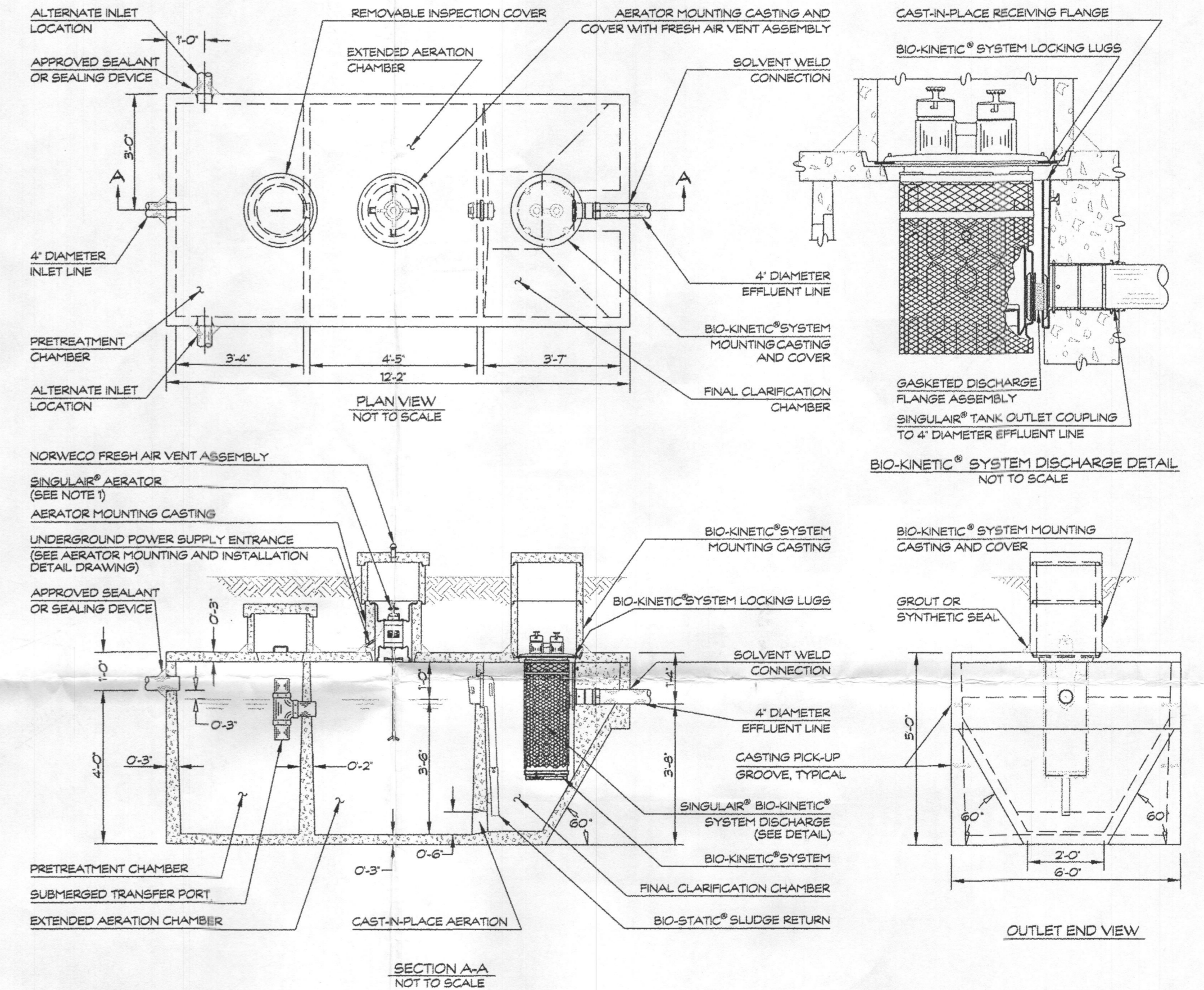
SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 5
AVERAGE PERCOLATION TEST TIME =
APPLICATION RATE = 0.8
DESIGN FLOW: 150 GALS x 5 BEDROOM = 750 GAL/DAY

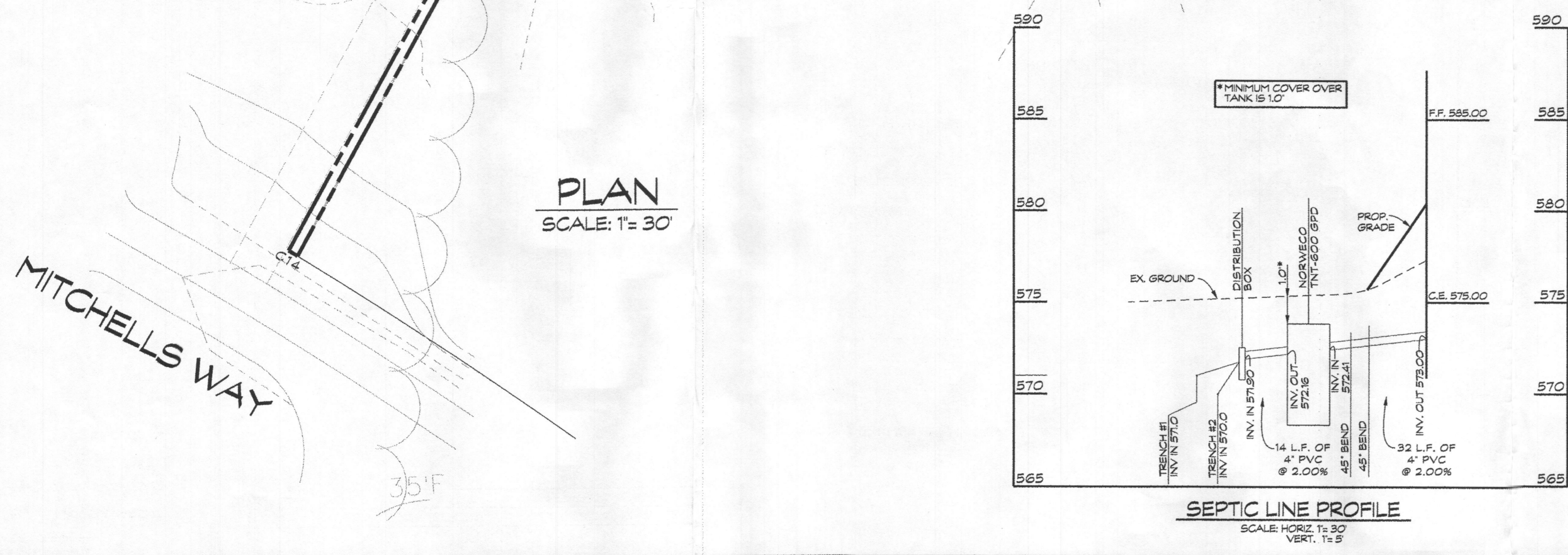
INITIAL SYSTEM
750 GAL/DAY / 0.8 GAL / DAY/SQ. FT. =
937.5 SQ. FT. USE 938 SQ. FT.
938 SQ. FT. / 3 FT. = 312.67 USE 313 LF. OF TRENCH
313 LF. x 0.50 = 156.5 LF. USE 157 LF.
USE 2 - 79 LF. OF TRENCH FOR INITIAL SYSTEM

REPLACEMENT SYSTEM
750 GAL/DAY / 1.2 GAL / DAY/SQ. FT. =
625 SQ. FT.
625 SQ. FT. / 3 FT. = 208.3 LF. OF TRENCH USE 209 LF.
209 LF. x 0.50 = 104.5 LF. USE 105 LF.
USE 2 - 53 LF. OF TRENCH FOR EACH REPLACEMENT SYSTEM

TRENCH CHART			
TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	575.0	571.0	567.0
2	574.0	570.0	566.0



NOTE:
SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM AMENDED PERCOLATION CERTIFICATION PLAN DATED APRIL 29, 2010 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT MAY 26, 2010.



SEPTIC LINE PROFILE
SCALE: HORIZ. 1/80
VERT. 1/5

BAT SITE PLAN NOTES

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 DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
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6. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
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9. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.

OWNER/DEVELOPER
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P.O. BOX 417
ELICOTT CITY, MD 21041

SITE PLAN AND PLOT PLAN FOR BAT INSTALLATION
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CLOVERFIELD- SECTION I

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TAX MAP: 15 BLOCK: 8 PARCEL: 4

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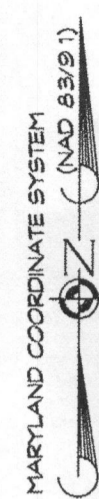
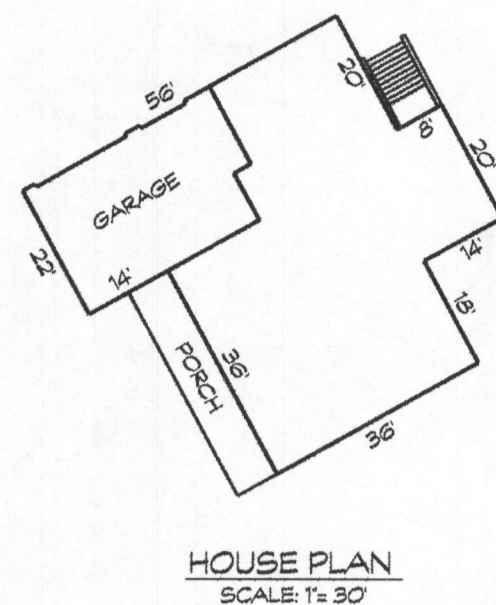
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By:
7/26/16	REVISED PER ROBERT FRESHMON EMAIL DATED 7/7/16	BM1
		Designed By:
		Reviewed By: LDA
		Date: 6/16/16
		Scale: AS SHOWN
		Job No.: 2013039
		Sheet: 1 OF 1

LEGEND:

- 582.5 SPOT ELEVATION
- 2.5% FLOW PATH & SLOPE
- EX. WELL
- PERC TEST LOCATION

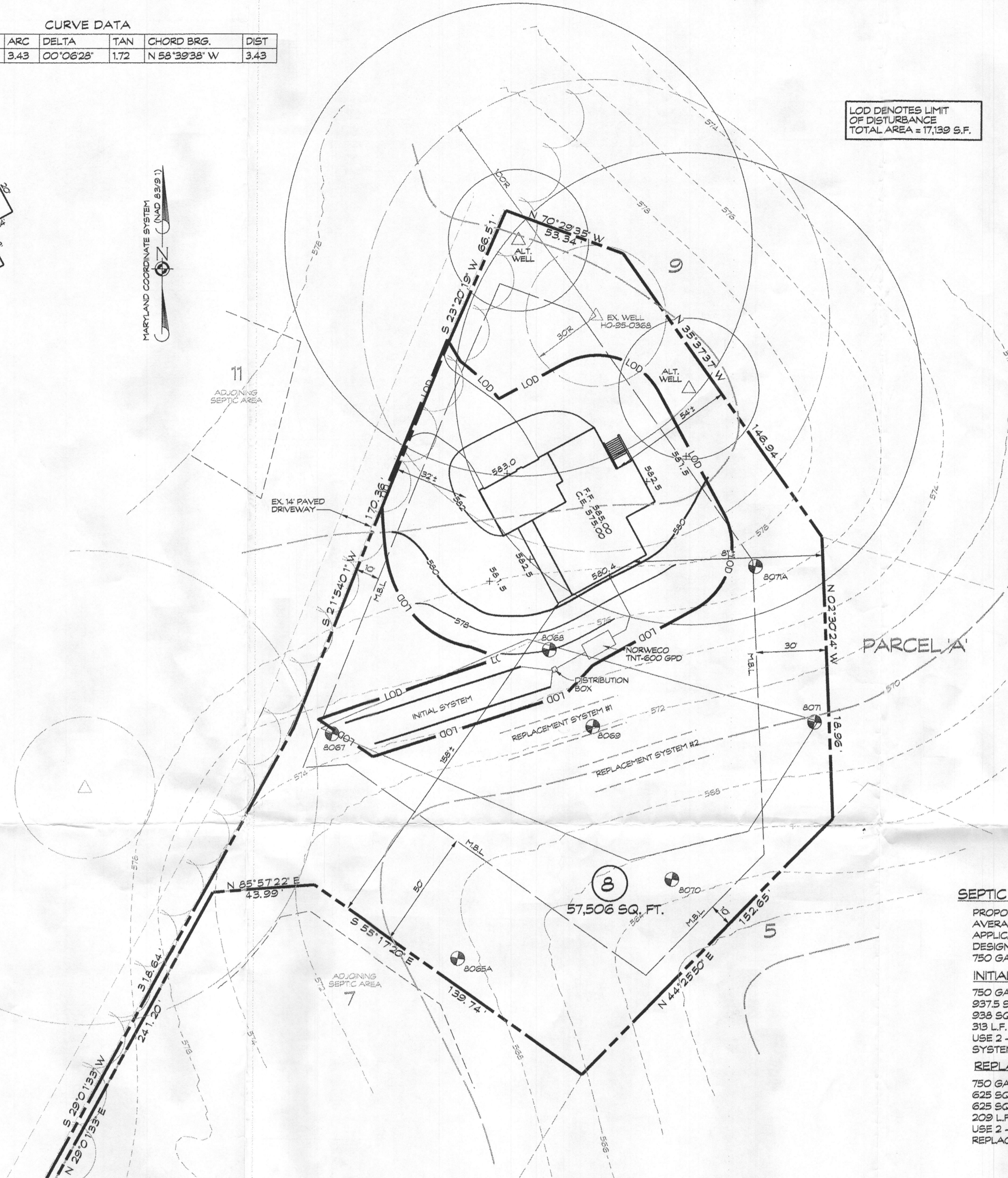
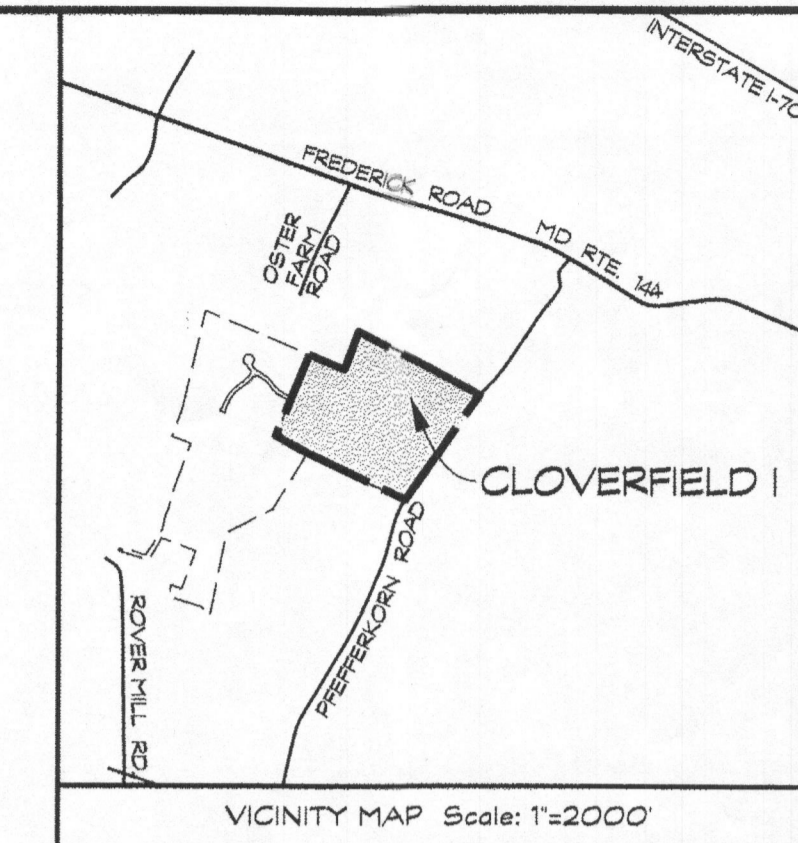
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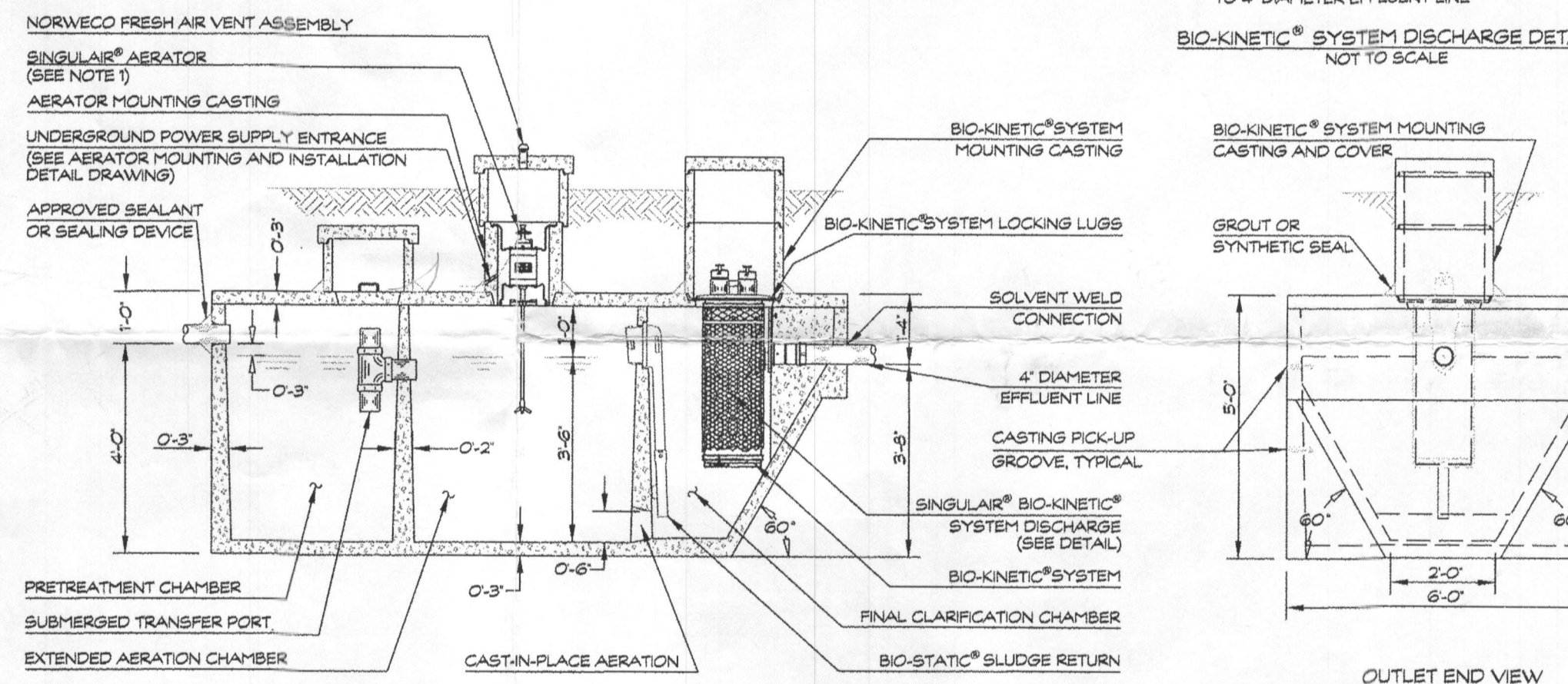
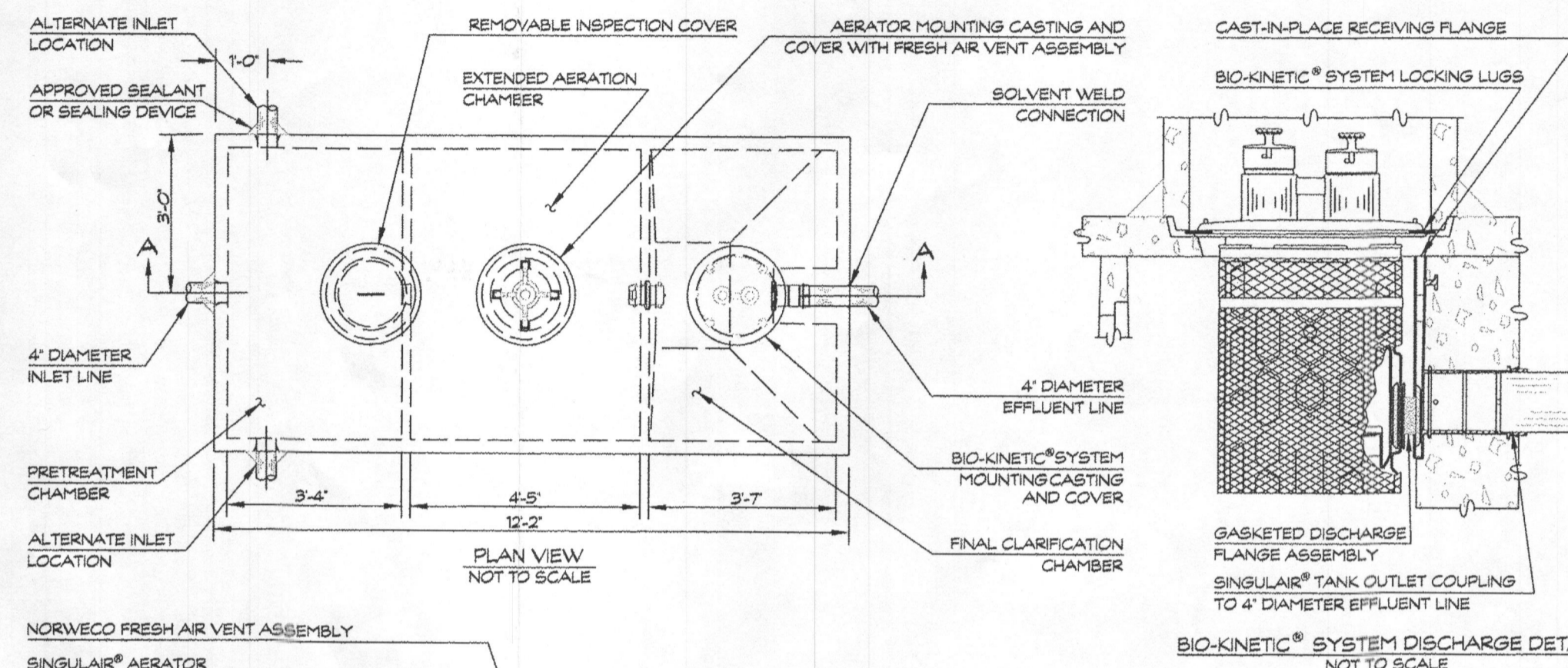
Approved Septic System Plan
Howard County Health Department
Robert Freeman 7/7/16
Signature Date

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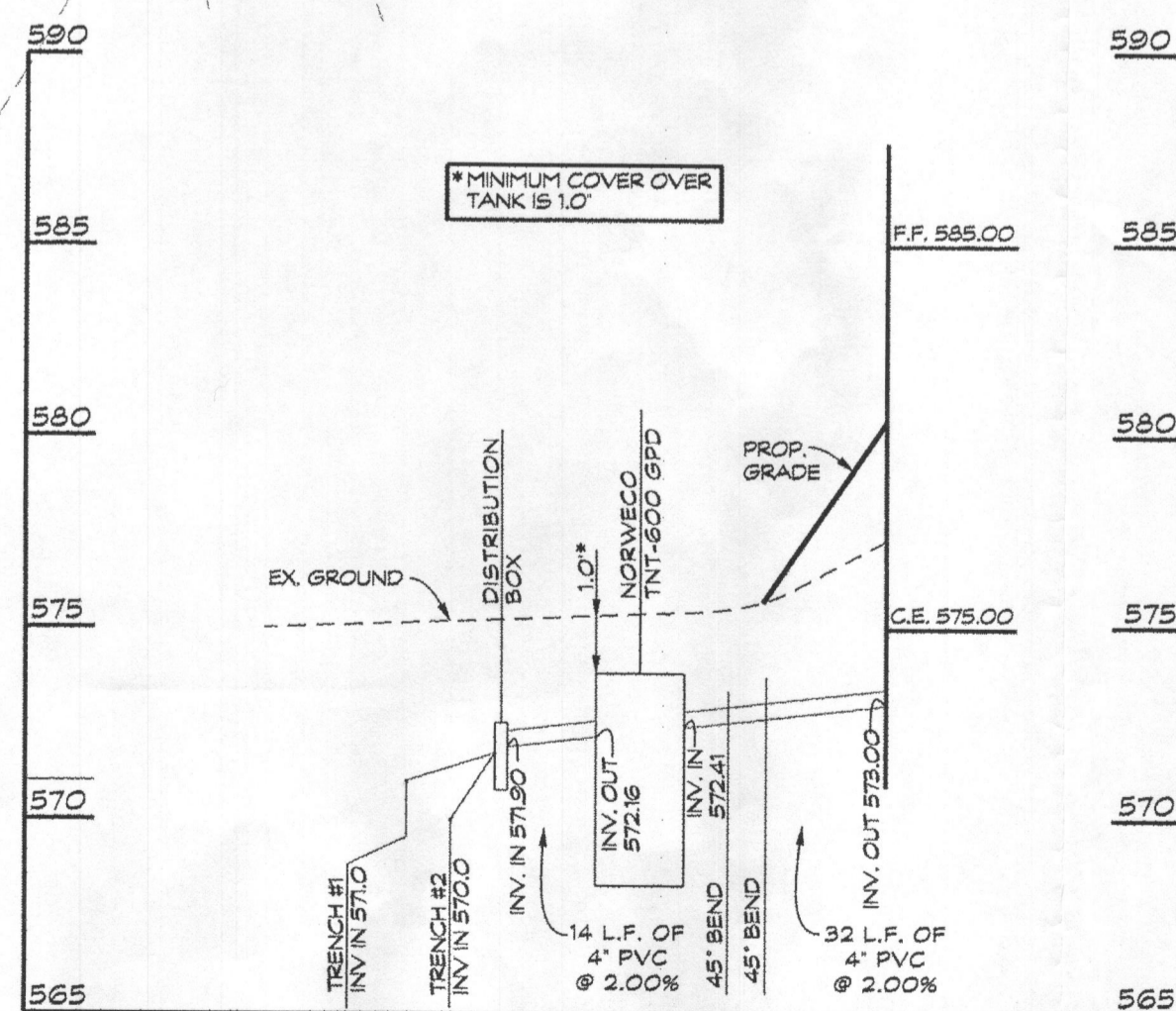


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MITCHELLS WAY



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