

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: 5/5/17 ONSITE SEWAGE DISPOSAL SYSTEM

P 5606297

APPROVAL DATE: 7/17/17 PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 986 RTE 97, COOKSVILLE, MD 21723

SUBDIVISION: TAX MAP 8, PARCEL 33 LOT: ---- TAX ID: 04-321553

CONTRACTOR: South Carroll Backhoe EMAIL:

CONTRACTOR ADDRESS: 4410 Saleem Bottom Rd. / Westminster, MD 21157 PHONE: 410-875-4197

PROPERTY OWNER: GERALD AND MELISSA CUNNINGHAM EMAIL:

OWNER ADDRESS: 14219 GREENVIEW DRIVE, LAUREL, MD 20708 PHONE: 410-925-4360

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MAYER BROTHERS, INC

PUMP MODEL: N.A. PUMP SIZE N.A. PUMP TANK CAPACITY: N.A.

DISTRIBUTION SYSTEM: XX GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required: 106, Inlet depth: 4, etc.)

ISSUED BY: R BRICKER ISSUE DATE: 5/5/17 EXPIRATION DATE: 5/5/18

- 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
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 attached sheet  
for as-built drawing

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	4'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		107'
ABSORPTION AREA		321' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER BROS.
CAPACITY	1500 GAL
SEAM LOC	TDP
TANK LID DEPTH	1-2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	

~~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:**

6/6/17 Met S. Carroll on site for layout. Tank stake present, SDA corners not staked. Told builder that the SDA must be staked prior to laying out trenches. Okay to set tank. (S) 6/9/17 SDA corners staked. Laid out 2x53' on contour at upper SDA corner near LOD. Line from tank to D-box to have clo's every 75'. (S)

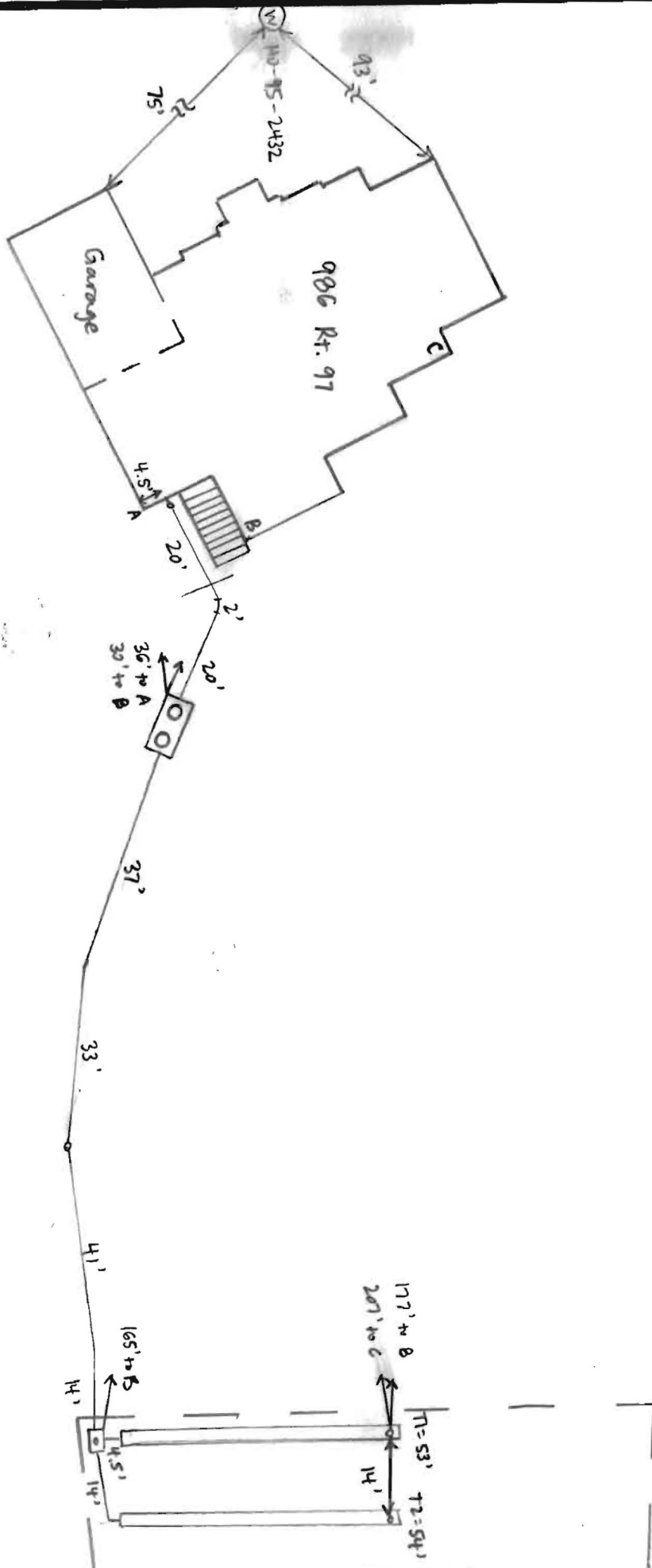
**INSTALLATION:**

6/13/17 Tank set. Pipe laid from house to tank - need house connection. S. Carroll digging line from tank to D-box. (S) 6/15/17 Trenches complete. T1 left open for inspection. T2 open at ends. 3' wide, 3.5' to stone. D-box has speed levelers - no water to check but both at the same height from bottom of box. Need house connection. (S) 7/17/17 House connection made. (S)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 7/17/17

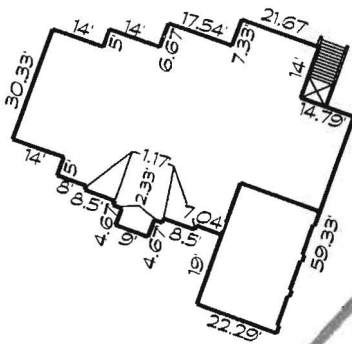
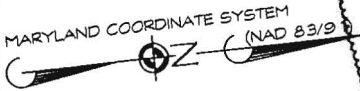
NOT TO SCALE

1" = 30'



NUMBER	BEARING	DISTANCE
L1	S 04°18'18" W	20.09'
L2	S 07°12'10" W	4.05'
L3	N 14°24'18" W	33.21'
L4	N 25°01'29" W	44.32'
L5	N 14°24'18" W	28.52'
L6	N 13°07'20" W	20.23'
L7	S 79°19'55" W	251.65'
L8	N 79°19'55" E	253.31'
L9	N 36°11'01" W	84.67'
L10	S 36°11'01" E	77.71'
L11	S 88°34'27" W	185.44'
L12	N 88°34'27" E	217.96'

NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C1	170.00	79.19	26°41'28"	40.33	S 61°34'57" W	78.48



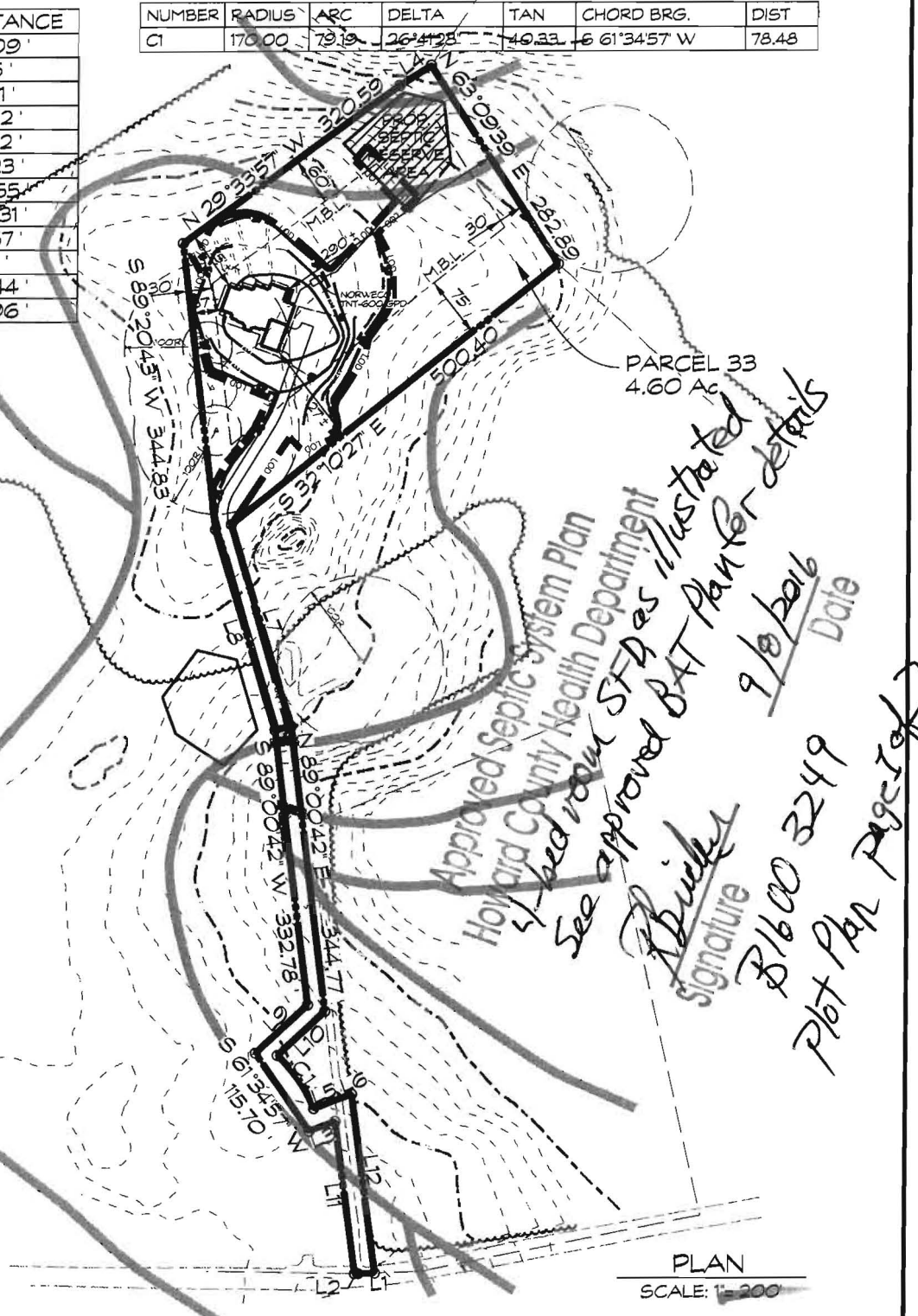
HOUSE PLAN  
SCALE: 1"=50'

ENTIRE LOT IS WOODED

LOD DENOTES LIMIT OF DISTURBANCE  
TOTAL AREA = 55,374 S.F.

SEE SITE PLAN FOR BAT INSTALLATION FOR SEPTIC DESIGN

SEE SHEET 2 OF 2 FOR DETAILED GRADING PLAN



PARCEL 33  
4.60 Ac

Approved Septic System Plan  
Howard County Health Department  
4-bed room SFs as illustrated  
See approved BAT Plan for details  
Signature: *R. Bricker*  
Date: 9/8/2016  
B1600 3249  
Plot Plan Page 1 of 2

PLAN  
SCALE: 1"=200'

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT.

THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HERE ON.

*Carroll Land Services, Inc.*  
CARROLL LAND SERVICES, INC.

6-26-2016  
DATE

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

DATE	REVISIONS

PLOT PLAN - PARCEL 33  
986 ROUTE 97  
**CUNNINGHAM PROPERTY**  
4th ELECTION DISTRICT • HOWARD COUNTY, MD.  
TAX MAP: 8 • BLOCK: 5 • PARCEL: 33

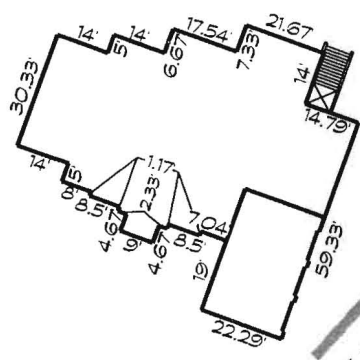


439 East Main Street  
Westminster, MD 21157-5539  
(410) 848-1790  
FAX (410) 848-1791

DRAWN BY:	BM / JLW
DESIGN BY:	
REVIEW BY:	
DATE:	6/28/2016
SCALE:	AS SHOWN
JOB NO:	2016008
SHEET:	1 OF 2

NUMBER	BEARING	DISTANCE
L1	S 04°18'18" W	20.09'
L2	S 07°12'10" W	4.05'
L3	N 14°24'18" W	33.21'
L4	N 25°01'29" W	44.32'
L5	N 14°24'18" W	28.52'
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L10	S 36°11'01" E	77.71'
L11	S 88°34'27" W	185.44'
L12	N 88°34'27" E	217.96'

NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C1	170.00	79.19	26°41'28"	40.33	S 61°34'57" W	78.48



**HOUSE PLAN**  
SCALE: 1" = 50'

ENTIRE LOT IS WOODED

LOD DENOTES LIMIT OF DISTURBANCE  
TOTAL AREA = 55,374 S.F.

SEE SITE PLAN FOR BAT INSTALLATION FOR SEPTIC DESIGN

SEE SHEET 2 OF 2 FOR DETAILED GRADING PLAN

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT.

THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HERE ON.

*Carroll Land Services, Inc.*  
CARROLL LAND SERVICES, INC.      6-26-2016  
DATE

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

DATE	REVISIONS



PARCEL 33  
4.60 Ac

*Approved Septic System Plan*  
*Howard County Health Department*  
*5-bed room SFDs illustrated*  
*See approved BAT Plan for details*  
*Drinker*  
*Signature*  
*B1600 3249*  
*9/8/2016*  
*Date*  
*Plot Plan Page 1 of 2*

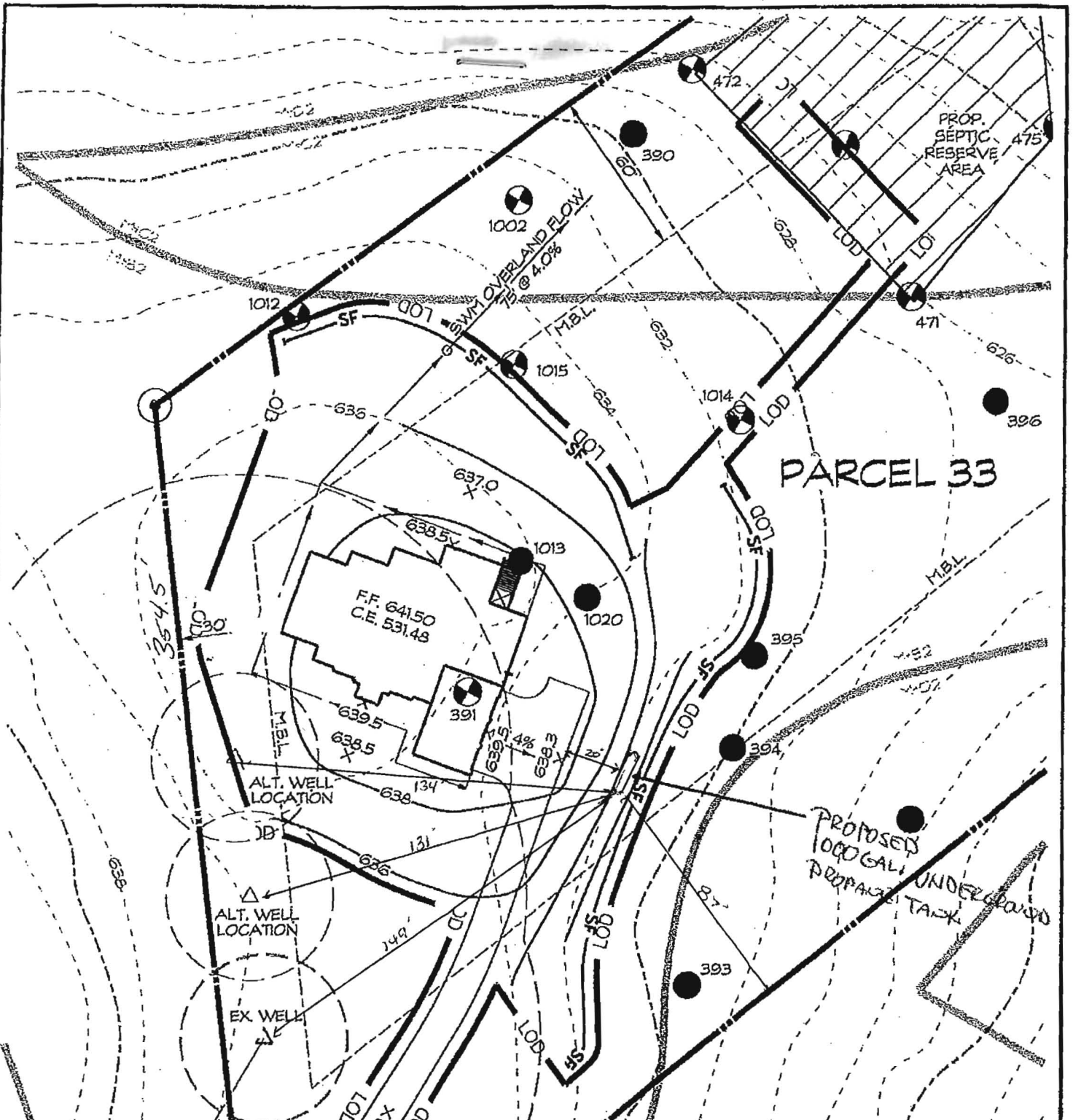
**PLAN**  
SCALE: 1" = 200'

PLOT PLAN - PARCEL 33  
986 ROUTE 97  
**CUNNINGHAM PROPERTY**  
4th ELECTION DISTRICT \* HOWARD COUNTY, MD.  
TAX MAP: 8 \* BLOCK: 5 \* PARCEL: 33



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

DRAWN BY:	BM/JLW
DESIGN BY:	
REVIEW BY:	
DATE:	6/28/2016
SCALE:	AS SHOWN
JOB NO.:	2016008
SHEET:	1 OF 2



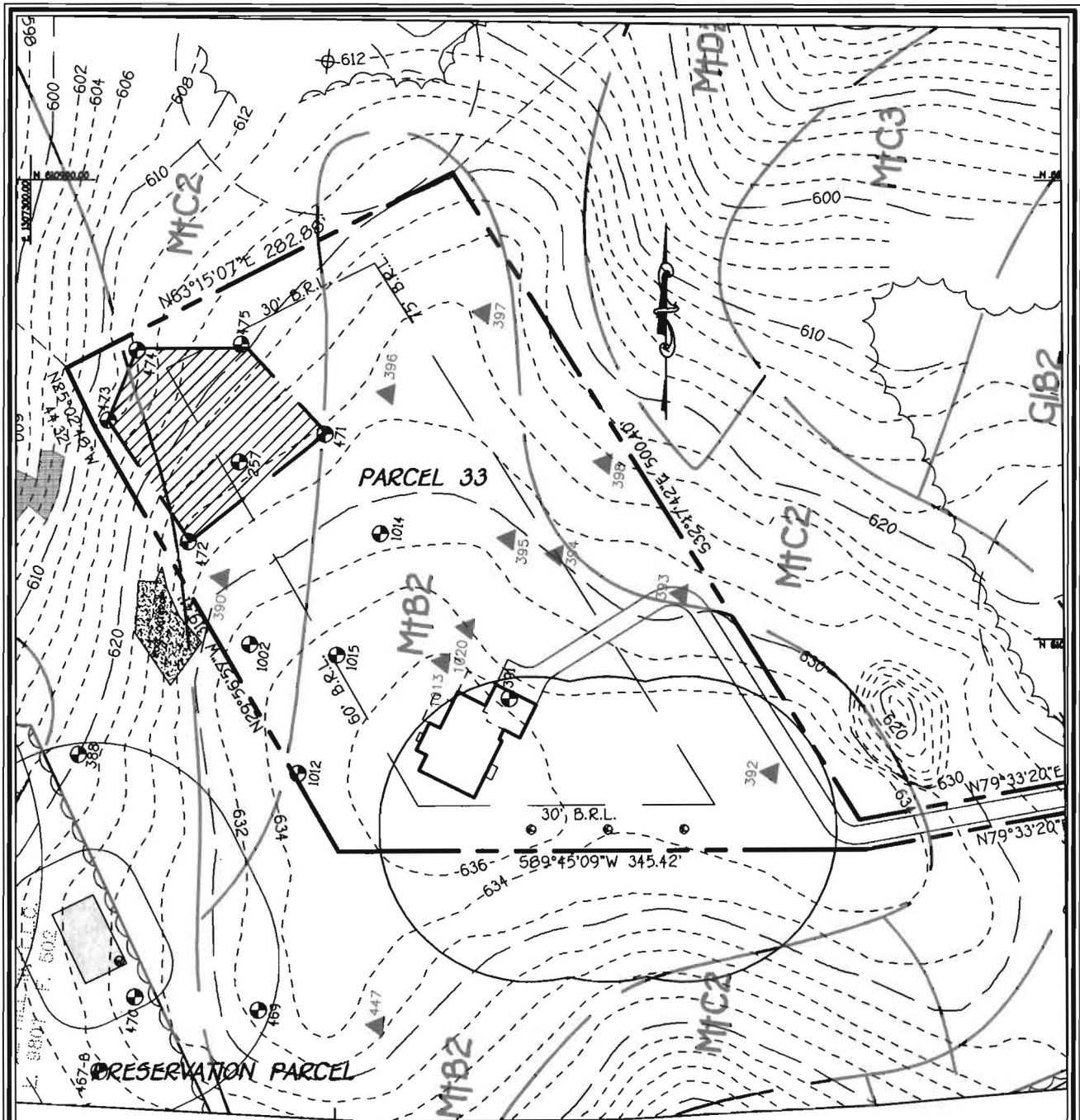
Approved Septic System Plan  
 Howard County Health Department  
 1000-gallon, underground  
 Propane Tank, as illustrated  
*R. Buckles*  
 Signature  
 2/16/2017  
 Date  
 1" = 50'

B17000304 GRADING & LOT LAYOUT - PARCEL 33  
 986 ROUTE 97  
**CUNNINGHAM PROPERTY**  
 4th ELECTION DISTRICT • HOWARD COUNTY, MD.  
 TAX MAP: 8 • BLOCK: 5 • PARCEL: 33



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

DRAWN BY:	BN
DESIGN BY:	
REVIEW BY:	
DATE:	4/15/16
SCALE:	1" = 50'
JOB NO.:	2016008
SHEET:	3 OF 3



WELL LOCATION INFORMATION:  
 LATITUDE=39°20'35" LONGITUDE=77°01'01"

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

**WELL LOCATION PLAN**  
 QUARTZ HILL ESTATES  
 PARCEL 33  
 ZONED: RC-DEO  
 TAX MAP No. 8 GRID No. 5 PARCEL No: 33  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: OCTOBER 24, 2012  
 SCALE: 1" = 100'  
 SHEET 1 OF 1

CAD Drawing File Name: s:\2015\163 Prelim\Sheet\Perf. Plan.dgn

**PLAN**  
SCALE: 1" = 30'



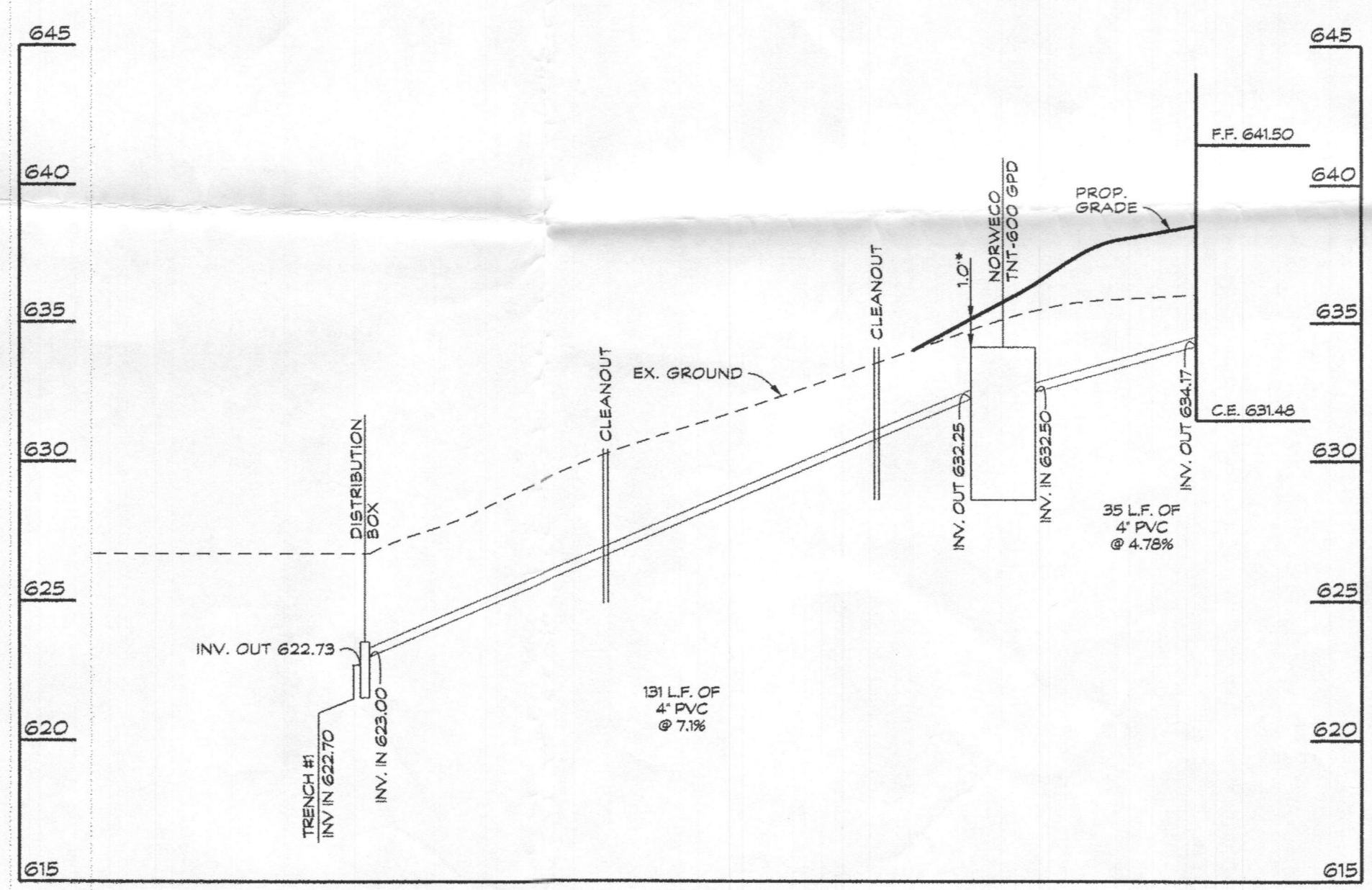
- LEGEND:**
- X SPOT ELEVATION
  - 2.5% FLOW PATH & SLOPE
  - ▲ EX. WELL
  - PERC TEST LOCATION

LOD DENOTES LIMIT OF DISTURBANCE  
TOTAL AREA = 54,788 S.F.

- SEPTIC SYSTEM TRENCH DESIGN:**  
PROPOSED NUMBER OF BEDROOMS = 4  
AVERAGE PERCOLATION TEST TIME = ...  
APPLICATION RATE = 1.2  
DESIGN FLOW: 120 GALS x 4 BEDROOM = 600 GAL/DAY
- INITIAL SYSTEM**  
DEPTH OF STONE: 2  
600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.  
800 SQ. FT. / 3 FT. = 166.67 USE 167 LF. OF TRENCH  
167 LF. x 0.80 = 83.5 USE 84 LF.  
USE 1 - 84 LF. OF TRENCH FOR INITIAL SYSTEM
- REPLACEMENT SYSTEM #1**  
DEPTH OF STONE: 2  
600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.  
800 SQ. FT. / 3 FT. = 166.67 USE 167 LF. OF TRENCH  
167 LF. x 0.80 = 83.5 USE 84 LF.  
USE 2 - 84 LF. OF TRENCH FOR REPLACEMENT SYSTEM #1
- REPLACEMENT SYSTEM #2**  
DEPTH OF STONE: 1.5  
600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.  
800 SQ. FT. / 3 FT. = 166.67 USE 167 LF. OF TRENCH  
167 LF. x 0.71 = 118.5 USE 119 LF.  
USE 2 - 60 LF. OF TRENCH FOR REPLACEMENT SYSTEM #2

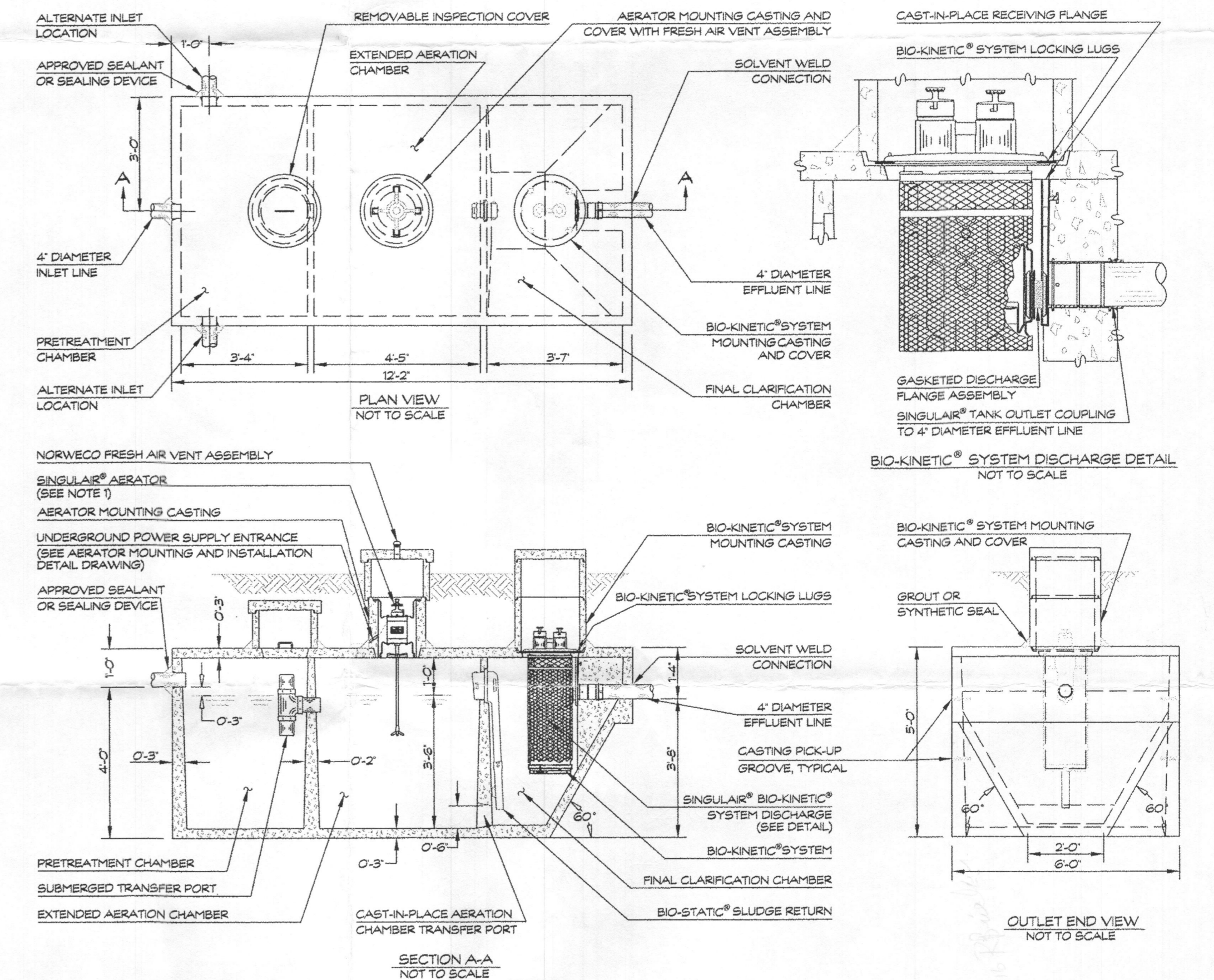
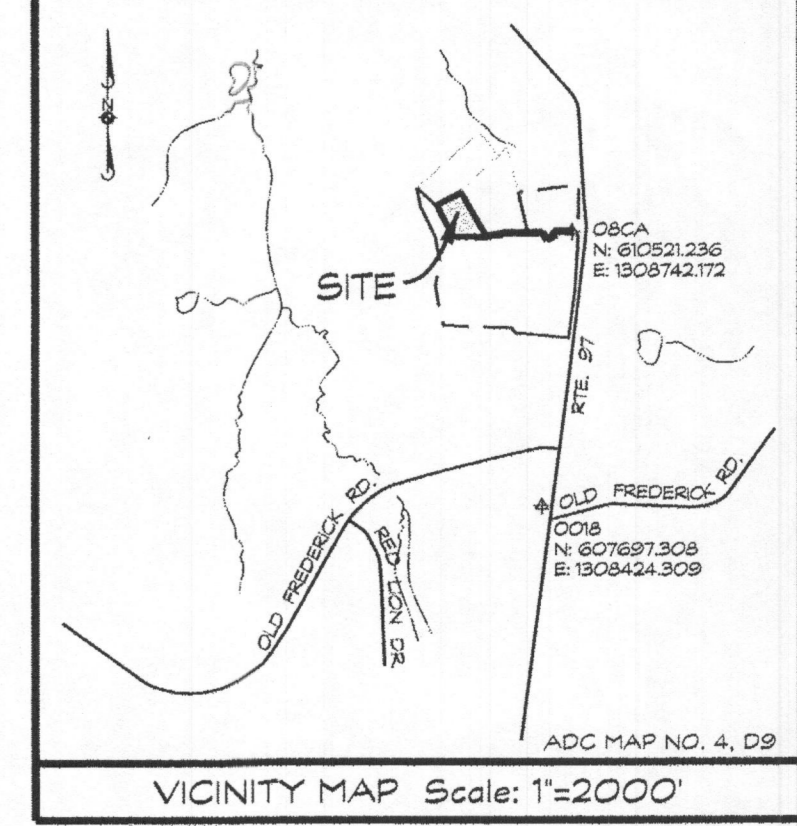
**TRENCH CHART**

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	626.7	622.7	-819.0 - 619.7



- GENERAL NOTES**
- THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY A OVERLAND FLOW DISCONNECT.
  - THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
  - THERE ARE NO 2% OR GREATER SLOPES ON THIS LOT.

- SEPTIC TANK NOTES**
- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
  - FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
  - ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
  - TANK REINFORCED PER ACI STD. 318-05.
  - REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
  - CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.



**NORWECO TNT-600 DETAIL**  
NOT TO SCALE

Approved Septic System Plan  
Howard County Health Department  
NORWECO TNT-600  
w/ gravity transfer  
R. Black  
Signature [Signature] Date 9/13/17  
986 Route 97

NOTE:  
SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM PERCOLATION CERTIFICATION PLAN DATED DECEMBER 11, 2012 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT JANUARY 4, 2013.

- BAT SITE PLAN NOTES**
- 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.
  - THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
  - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  - THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
  - WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
  - ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OR HOWARD COUNTY.
  - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
  - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.
  - SHOULD A BUILDING PERMIT BE SUBMITTED AT SOME FUTURE DATE TO FINISH THE BASEMENT, A SEPTIC SYSTEM UPGRADE MAY BE REQUIRED. THE REQUIREMENT FOR AN UPGRADE TYPICALLY WOULD BE ASSOCIATED WITH THE CREATION OF A SPACE MATCHING THE CHARACTERISTICS OF A BEDROOM AS DEFINED IN HOWARD COUNTY CODE 3.60 (B). A SUBSEQUENT SEPTIC SYSTEM UPGRADE WOULD HAVE TO MEET THE REQUIREMENTS OF CODE AT THE A PROPOSAL REQUIRING AN UPGRADE IS SUBMITTED.

**SITE PLAN FOR BAT INSTALLATION**

PARCEL 33 - 986 ROUTE 97  
TAX ACCOUNT NO.: 321553  
**CUNNINGHAM PROPERTY**  
4th ELECTION DISTRICT \* HOWARD COUNTY, MD.  
TAX MAP: 8 \* BLOCK: 5 \* PARCEL: 33

*[Signature]*  
Date 9/19/16  
Jesse D. Alvarado  
Qualified Professional

**CLSI**  
Civil & Environmental Consultants  
www.clsi-civileng.com  
439 East Main Street Westminster, MD 21157-5539  
(410) 843-1790 FAX (410) 843-1791

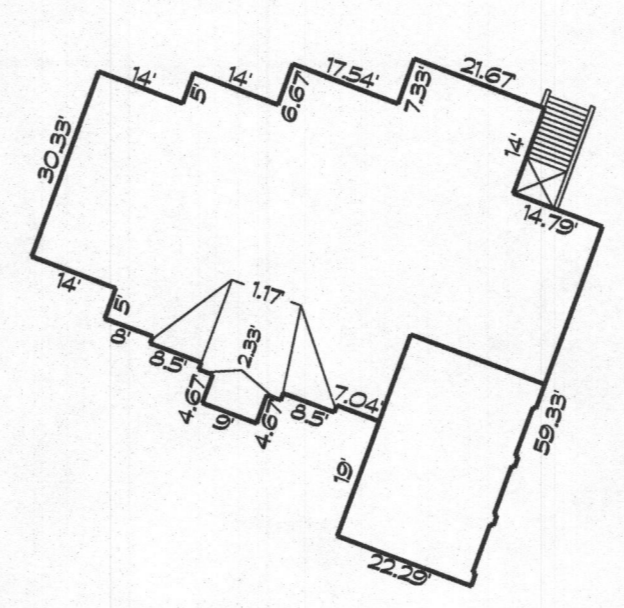
**OWNER/DEVELOPER**  
GERALD & MELISSA CUNNINGHAM  
14219 GREENVIEW DR  
LAUREL MD 20708

Date	Revisions	Drawn By: BM, MIM
8/9/16	REV'D PER HCHD COMMENT LETTER DATED 8/6/16	Designed By:
8/19/16	REV'D PER HCHD EMAIL RECEIVED ON 8/18/16	Reviewed By:
		Date: 4/19/16
		Scale: 1"=30'
		Job No.: 2016008
		Sheet: 1 OF 1

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**PLAN**  
SCALE: 1" = 30'



**HOUSE PLAN**  
SCALE: 1/8" = 1'-0"

- LEGEND:**
- x 592.5 SPOT ELEVATION
  - 2.5% FLOW PATH & SLOPE
  - ▲ EX. WELL
  - PERC TEST LOCATION
  - FAILED PERC TEST LOCATION

LOD DENOTES LIMIT OF DISTURBANCE  
TOTAL AREA = 54,768 S.F.

**SEPTIC SYSTEM TRENCH DESIGN:**  
PROPOSED NUMBER OF BEDROOMS = 5  
APPLICATION RATE = 1.2  
DESIGN FLOW: 150 GALS x 5 BEDROOM = 750 GAL/DAY

**INITIAL SYSTEM**  
DEPTH OF STONE: 3'  
750 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 625 SQ. FT.  
625 SQ. FT. / 3 FT. = 208.33 USE 209 LF. OF TRENCH  
209 LF. x 0.50" = 104.5 USE 106 LF.  
USE 2 - 53 LF. OF TRENCH FOR INITIAL SYSTEM

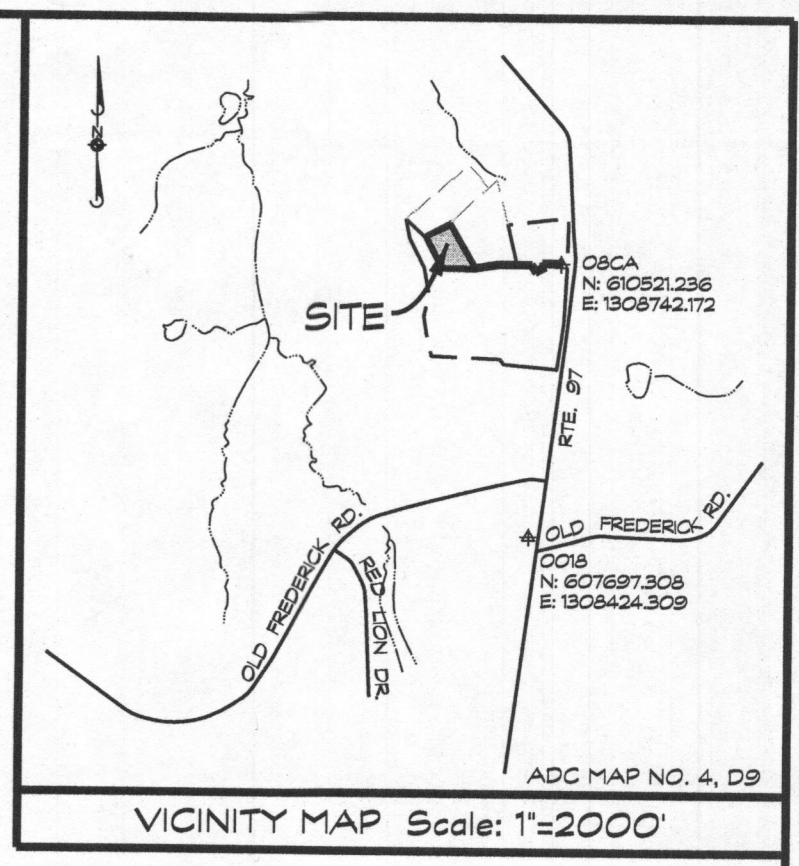
**REPLACEMENT SYSTEM #1**  
DEPTH OF STONE: 2'  
750 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 625 SQ. FT.  
625 SQ. FT. / 3 FT. = 208.33 USE 209 LF. OF TRENCH  
209 LF. x 0.71" = 148.59 USE 150 LF.  
USE 2 - 66 LF. OF TRENCH FOR REPLACEMENT SYSTEM #1

**REPLACEMENT SYSTEM #2**  
DEPTH OF STONE: 1.5'  
750 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 625 SQ. FT.  
625 SQ. FT. / 3 FT. = 208.33 USE 209 LF. OF TRENCH  
209 LF. x 0.71" = 148.59 USE 150 LF.  
USE 2 - 75 LF. OF TRENCH FOR REPLACEMENT SYSTEM #2

**TRENCH CHART**

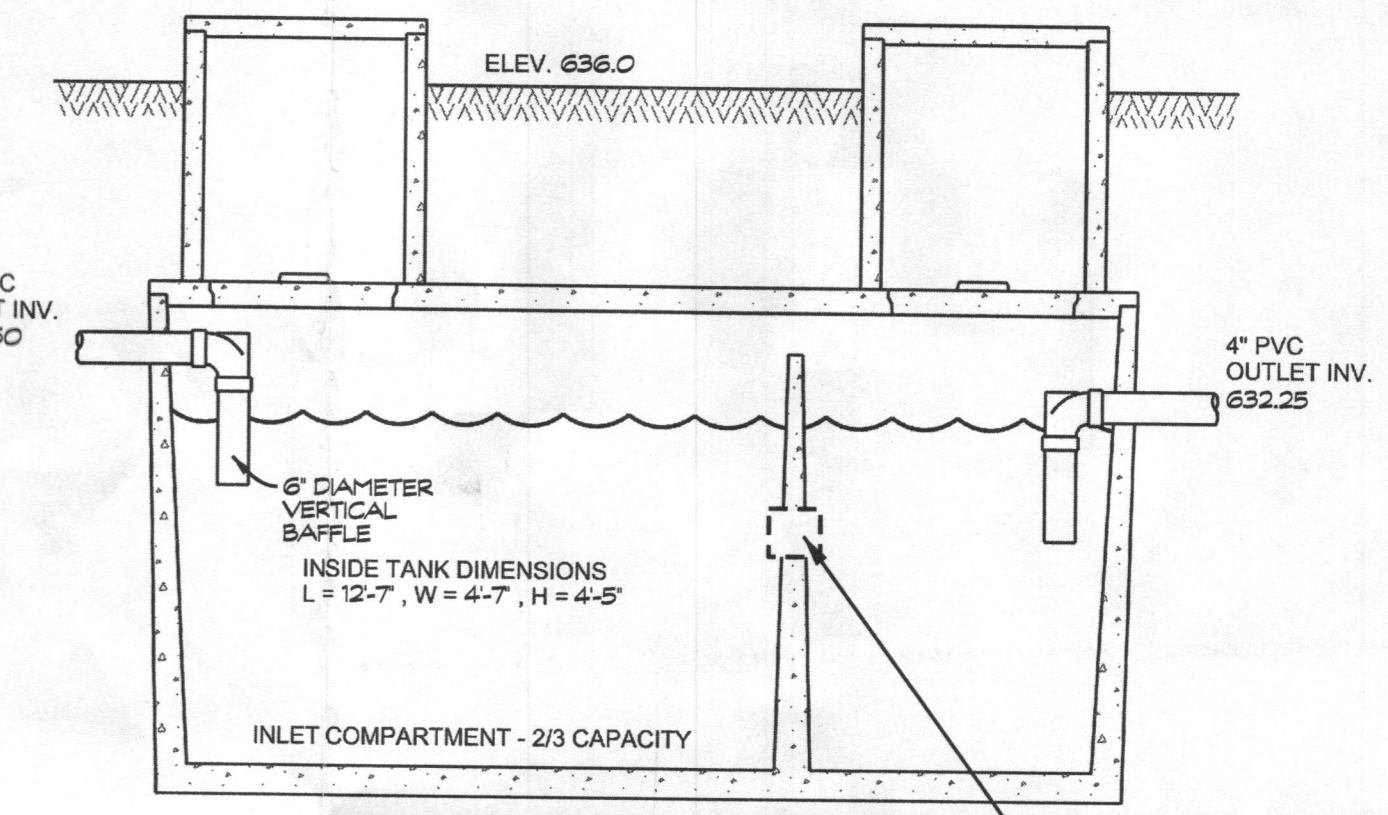
TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	626.7	622.7	619.7
2	625.8	621.8	618.8

- GENERAL NOTES**
1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY AN OVERLAND FLOW DISCONNECT.
  2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
  3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.



VICINITY MAP Scale: 1" = 2000'

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

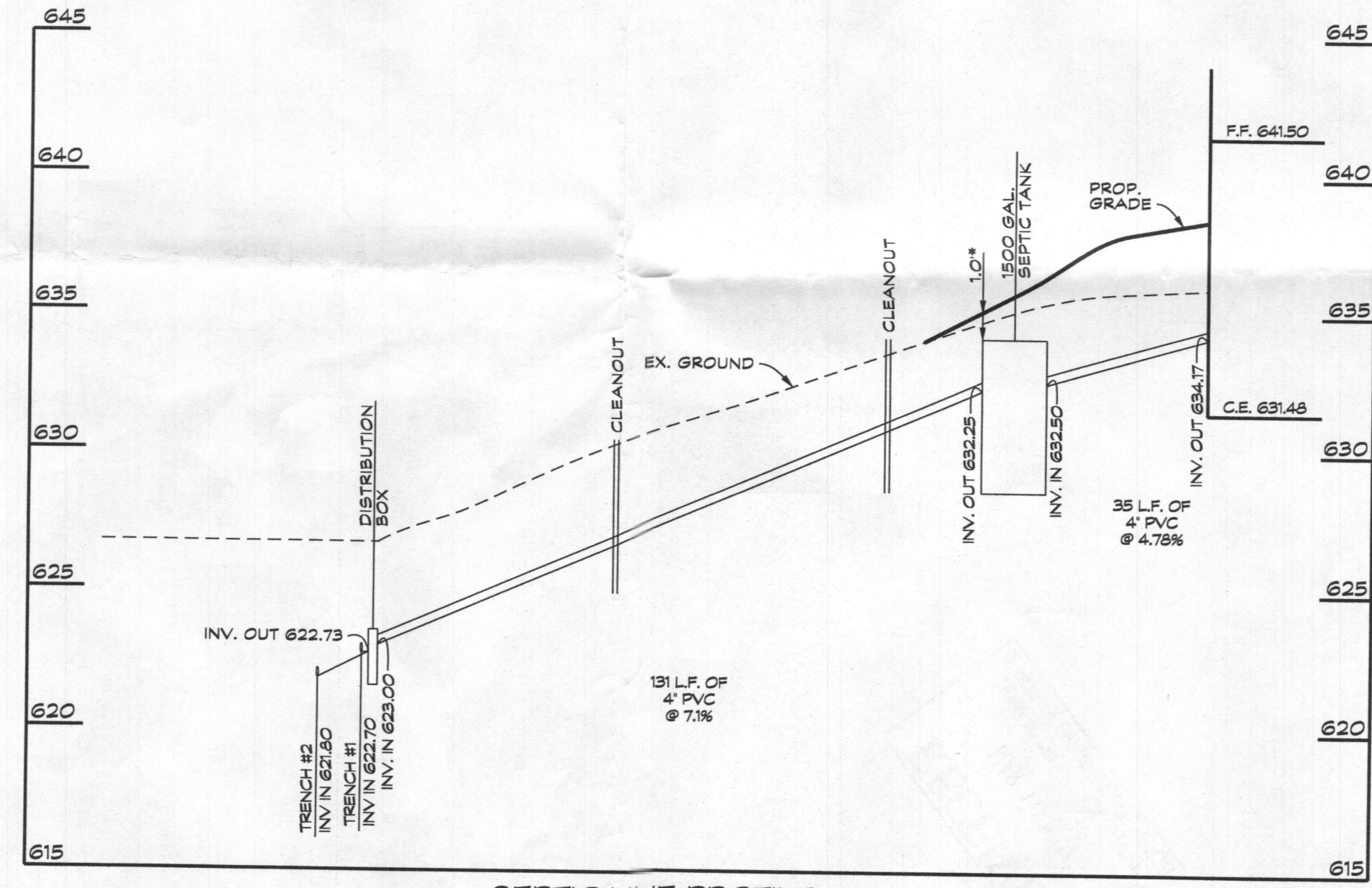


**TOP SEAM**  
**1500 GAL SEPTIC TANK**  
(NOT TO SCALE)

NOTE: SLOT IS 2" HIGH BY 4" LONG IN CENTER OF LIQUID DEPTH

Approved Septic System Plan  
Howard County Health Department  
Gravity septic system  
for 5-Bedroom SFD  
*R. Bricker* 3/13/2017  
Signature Date

NOTE: SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM PERCOLATION CERTIFICATION PLAN DATED DECEMBER 11, 2012 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT JANUARY 4, 2013.



**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. TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 410-798-1434.
  4. 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.
  5. THE WELL (TAG # HO-95-2432) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

**ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**  
PARCEL 33 - 986 ROUTE 97  
TAX ACCOUNT NO.: 321553  
**CUNNINGHAM PROPERTY**  
4th ELECTION DISTRICT • HOWARD COUNTY, MD.  
TAX MAP: 8 • BLOCK: 5 • PARCEL: 33

*Linda D. Alexander* 3-9-2017  
Linda D. Alexander  
Qualified Professional

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

Date	Revisions	Drawn By: BM, MM
8/9/16	REVD PER HCHD COMMENT LETTER DATED 8/6/16	Designed By:
8/19/16	REVD PER HCHD EMAIL RECEIVED ON 8/18/16	Reviewed By:
2/13/17	REVD BAT TANK TO SEPTIC TANK	Date: 4/19/16
3/1/17	REVD SEPTIC SYSTEM TO A 5 BEDROOM	Scale: 1"=30'
3/9/17	REVD PER BRICKER EMAIL DATED 3/8/17	Job No: 2016008
		Sheet: 1 OF 1

**OWNER/DEVELOPER**  
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