



Howard County
Health Department

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: 7-18-19

ONSITE SEWAGE DISPOSAL SYSTEM

P 505558-A

APPROVAL DATE: 09/27/2019

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 15215 Torino Way

SUBDIVISION: Fairlane Farms

LOT: 27

TAX ID: _____

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: NV Homes

EMAIL: _____

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046

PHONE: 410-379-5956

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon Vault or equivalent

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>130</u>	INLET DEPTH: <u>1.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald

ISSUE DATE: 7-18-19

EXPIRATION DATE: 7-18-20

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 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 19003853

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
AS BUILT

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 1.5' BOTTOM 8'
NUMBER OF TRENCHES 3
TOTAL LENGTH 132 F
ABSORPTION AREA 396 SF
DISTRIBUTION BOX LEVEL SPEED
DISTRIBUTION BOX BAFFLE YES
DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES
MANUFACTURER BABYLON
CAPACITY 2000 GAL
SEAM LOC TOP
TANK LID DEPTH 35-3'
BAFFLES YES
BAFFLE FILTER NO
MANHOLE LOC FRONT/BACK
6" PORT LOC —
WATERTIGHT TEST —
SLOTTED YES
DATE ON LID 05/17/2019

PUMP/SEPTIC TANK LEVEL YES
MANUFACTURER BABYLON
CAPACITY 1500 GAL
SEAM LOC TOP
TANK LID DEPTH 35-3
BAFFLES —
BAFFLE FILTER —
MANHOLE LOC —
6" PORT LOC —
WATERTIGHT TEST —
SLOTTED —
DATE ON LID 06/03/2019

PRE-CONSTRUCTION:

7/22/2019 TANK AND SDA STAKED. CONTOUR CHECKED. OK TO START. (P)

INSTALLATION: 7/23/2019 TRENCHES COMPLETED. OK TO BACKFILL. (V)

7/25/2019 D. BOX, FM, AND TANKS INSTALLED. (P)

7/29/2019 SHC, SL, FM INSTALLED FROM TANK TO MID YARD.

WELL LINE CONFIRMED SLEEVE BY FORCE MAIN. REINSF

PIA (P). 9/27/2019 SEPTIC GFI LEFT PANEL #22 SEP PUMP LEFT PANEL

#23. ALARM TESTED VIA FLOAT LIFT. ALARM WORKS. PUMP FUNCTION
OBSERVED AND CONFIRMED AT D BOX. (P)

FINAL INSPECTOR

DATE OF APPROVAL

09/27/2019



HOWARD COUNTY HEALTH DEPARTMENT

65558

DATE

7/18/19

Received From

South Carroll Builders, Inc. PHONE # 70875-4197

☐ CASH

☒ CHECK

NO.

5463

For

(b) Seque Prints - 1525 Torrey Way, 13016 Mill Creek Ct.
5038 Gantner Home Drive - (1) Sewer / Water Connection
15140 Busing Place Region
One thousand seven hundred + forty nine - 00 Dollars

Received By

V. Delaney

\$ 1749.00

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, May 21, 2019 11:23 AM
To: Dave Harward, III
Subject: RE: OSDS Plan_15215 Torino Way
Attachments: waiver letter approval.pdf

Hi Dave:

The variance request has been approved. (See attachment). The OSDS Plan shows the initial system trench 3 slightly off contour. It could be adjusted so there isn't a foot difference in elevation between the ends of the trench (Design it with a slight bend with no curve). The well radius for the existing well should also be corrected to be 100 ft all the way around it. Lastly, the building permit site plan needs to be revised to match OSDS Plan. As soon as I have these revisions, I will sign off.

Thanks,

Hank

From: Dave Harward, III <DaveH@fcc-eng.com>
Sent: Tuesday, May 14, 2019 1:27 PM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: FW: OSDS Plan_15215 Torino Way

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

Hank,

I believe we had sent this before, but if not I apologize. See the attached letter for Lot 27 (15215 Torino Way).

Thanks,
Dave.



From: Tony Fertitta
Sent: Tuesday, May 14, 2019 1:20 PM
To: Dave Harward, III
Subject: FW: OSDS Plan_15215 Torino Way

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Tuesday, May 14, 2019 1:08 PM
To: Tony Fertitta <tonyf@fcc-eng.com>
Subject: RE: OSDS Plan_15215 Torino Way

Hi Tony:

I received a single OSDS Plan for 15215 Torino Way. Did you send in the variance request for the steep slopes next to the septic tank/pump tank?

Hank

From: Tony Fertitta <tonyf@fcc-eng.com>
Sent: Tuesday, January 15, 2019 9:11 AM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: RE: OSDS Plan_15215 Torino Way

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

I will ask Dave I thought that was taken care of. thanks

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Tuesday, January 15, 2019 9:01 AM
To: Tony Fertitta
Subject: RE: OSDS Plan_15215 Torino Way

Hi Tony:

Did someone send in the Variance request for 15215 Torino Way?

Hank

From: Tony Fertitta [<mailto:tonyf@fcc-eng.com>]
Sent: Thursday, January 10, 2019 9:58 AM
To: Oswald, Hank
Subject: RE: OSDS Plan_15215 Torino Way

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

We are getting waiver

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Thursday, January 10, 2019 9:54 AM
To: Tony Fertitta
Cc: Cagle, Clint (ccagle@nvrinc.com)
Subject: OSDS Plan_15215 Torino Way

Hi Tony:

I just wanted to follow-up with you regarding the *revised* OSDS Plan for 15215 Torino Way received on 1.8.19.

1. Per my last correspondence, what is the small square next to the # 597.5 on the plan represent (See attached). Is it a storm water inlet, man hole cover? And, Is the owner going to ask for a variance from MDE to the steep slope (> 25%) next to the septic tank/pump tank (see attached)?

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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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 Blvd. Columbia, Maryland 21046-4544	Attn: Hank Oswald Fax: Phone: 410-313-2640
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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 27	W.O.# 05106-3003
Date: Jan. 8, 2019	Pages: 0 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 checked="" type="checkbox"/> For Review & Comment	

Remarks:

Re: Fairlane Farm, Lot 27, 15215 Torino Way

Because of the redline process DED required, NV Homes has finally been able to submit for permit on this house. I believe you've reviewed this already (we submitted this to you in mid March). Wanted to make sure you had this for review & approval. Here are 3 copies the OSDS Plan for your review. Please let me know if you have any questions.

Thank You,

Tony.

Fisher, Collins, & Carter, Inc. Ph. 410-461-2855

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Thanks,

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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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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: 15215 Torino Way
Fairlane Farms, Lot 27

Date: January 7, 2019

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

- 1.) Adjust tanks so they aren't within 25 feet of steep slopes or ask for a variance from MDE.
- 2.) Label Small Square on plan (i.e. is it a storm water inlet or manhole cover?).
- 3.) Raise trench inverts as high as possible to a minimum depth of 18 inches. Adjust trench detail and elevations as necessary.
- 4.) Plan shows roof leaders discharging offsite. Is this permitted?
- 5.) 2nd replacement trench should be 195.31 feet (not 156.25). Adjust trench lengths on plan.

Oswald, Hank

From: Oswald, Hank
Sent: Monday, January 07, 2019 11:50 AM
To: 'Tony Fertitta'
Subject: OSDS Plan_15215 Torino Way_Lot 27
Attachments: OSDS Memo To FCC_2018.pdf

Hi Tony:

Attached, please find plan review comments for 15215 Torino Way (Lot 27).

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)
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Sent: Tuesday, May 14, 2019 1:27 PM
To: Oswald, Hank
Subject: FW: OSDS Plan_15215 Torino Way
Attachments: Lot 27 signed by customer.pdf

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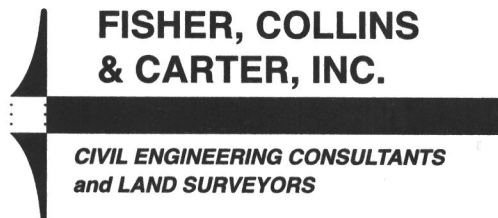
Hank

Hank Oswald
Licensed Environmental Health Specialist
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**FISHER, COLLINS
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS**

Transmittal

Terrell A. Fisher, P.E., L.S.
Earl D. Collins, P.E.
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.
Mark L. Robel, P.L.S.
Aldo M. Vitucci, P.E.
Frank Manalansan II, L.S.
Stephanie Tuite, RLA, P.E., LEED AP BD&C

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 Blvd.
Columbia, Maryland 21046-4544

Attn: **Hank**
Fax:
Phone: **410-313-2640**

From: **Tony Fertitta**

CC:

Re: **Fairlane Farms, Lot 27**

W.O.# **05106-3003**

Date: **May 30, 2019**

Pages: **0** **Page(s) Including this cover**

We are forwarding: ☒ Prints ☐ Copy of Letter ☐ Specifications ☐ Shop drawings ☐ Other
☐ Urgent ☐ For your use ☐ As requested ☒ For Review & Comment

Remarks:

Re: Fairlane Farm, Lot 27, 15215 Torino Way.

Here are 3 copies of the OSDS for Lot 27 for your review. Please let me know if you have any questions.

Thank You,

Tony.

Fisher, Collins, & Carter, Inc. Ph. 410-461-2855

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& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS**

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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 Blvd.
Columbia, Maryland 21046-4544

Attn: **Hank Oswald**
Fax:
Phone: **410-313-2640**

From: **Tony Fertitta**

CC:

Re: **Fairlane Farms, Lot 27**

W.O.# **05106-3003**

Date: **Jan. 8, 2019**

Pages: **0** **Page(s) Including this cover**

We are forwarding: ☒ Prints ☐ Copy of Letter ☐ Specifications ☐ Shop drawings ☐ Other
☐ Urgent ☐ For your use ☐ As requested ☒ For Review & Comment

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GENERAL NOTES:

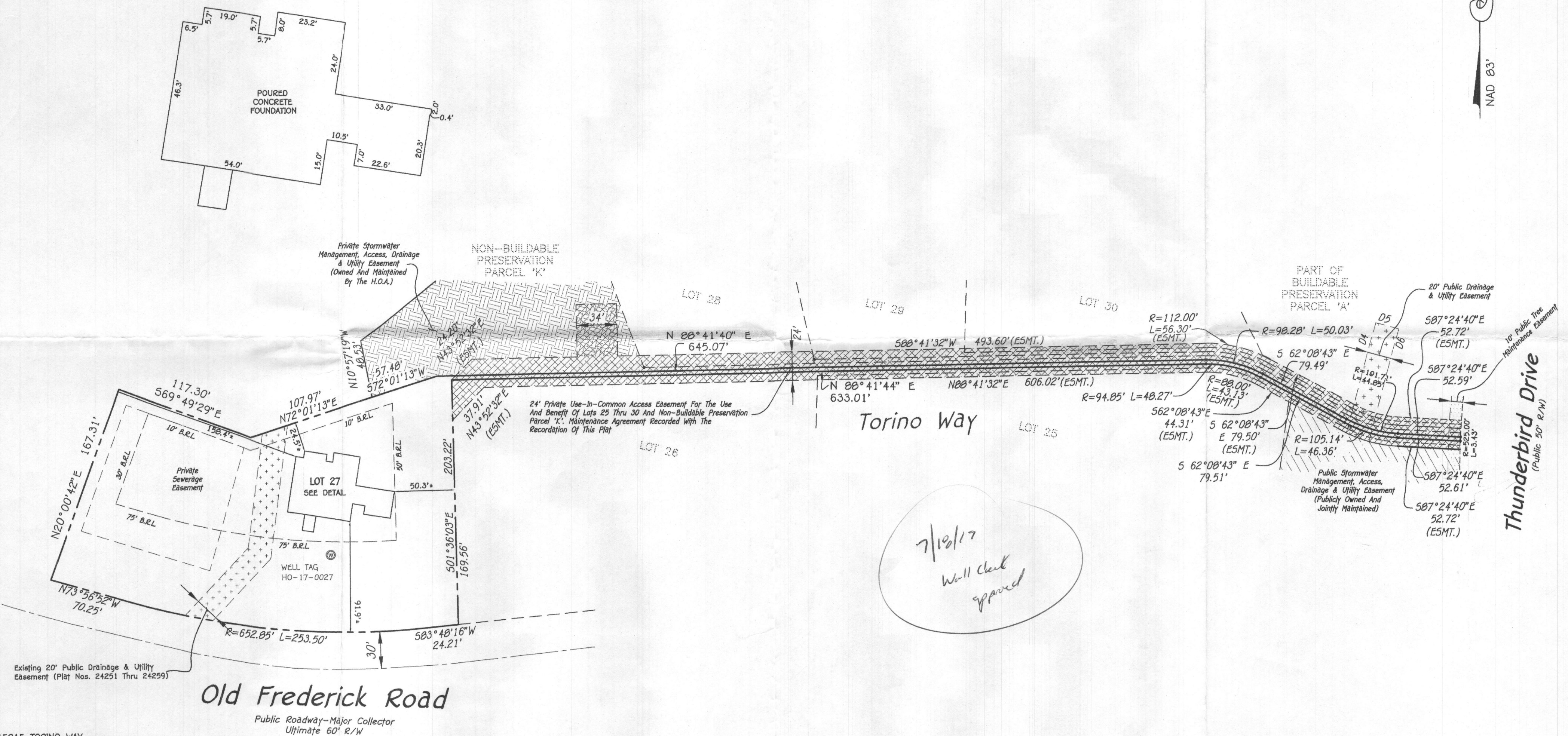
- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS 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. 24027C00350 EFFECTIVE 11-06-2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 0.25'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-17-0027 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) 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.
- 7) BUILDING PERMIT #B-18003939

Legend

- Existing Private Stormwater Management, Access, Drainage & Utility Easement
- Public Stormwater Management, Access, Drainage & Utility Easement
- 10' Public Tree Maintenance Easement
- Public Drainage & Utility Easement
- Private Sewerage Easement

Public And Private Drainage & Utility Easement Line Table

LINE	BEARING	LENGTH
D4	N14°40'57"E	96.43'
D5	S75°19'03"E	20.00'
D6	S14°40'57"W	98.31'

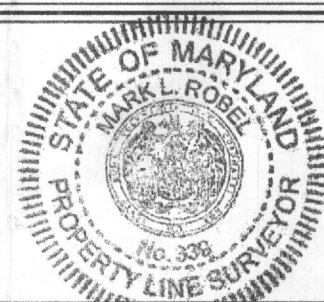


#15215 TORINO WAY
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 601.2'±

Old Frederick Road

Public Roadway-Major Collector
Ultimate 60' R/W

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE



Mark L. Rosel
PROPERTY LINE SURVEYOR
REQ. #339

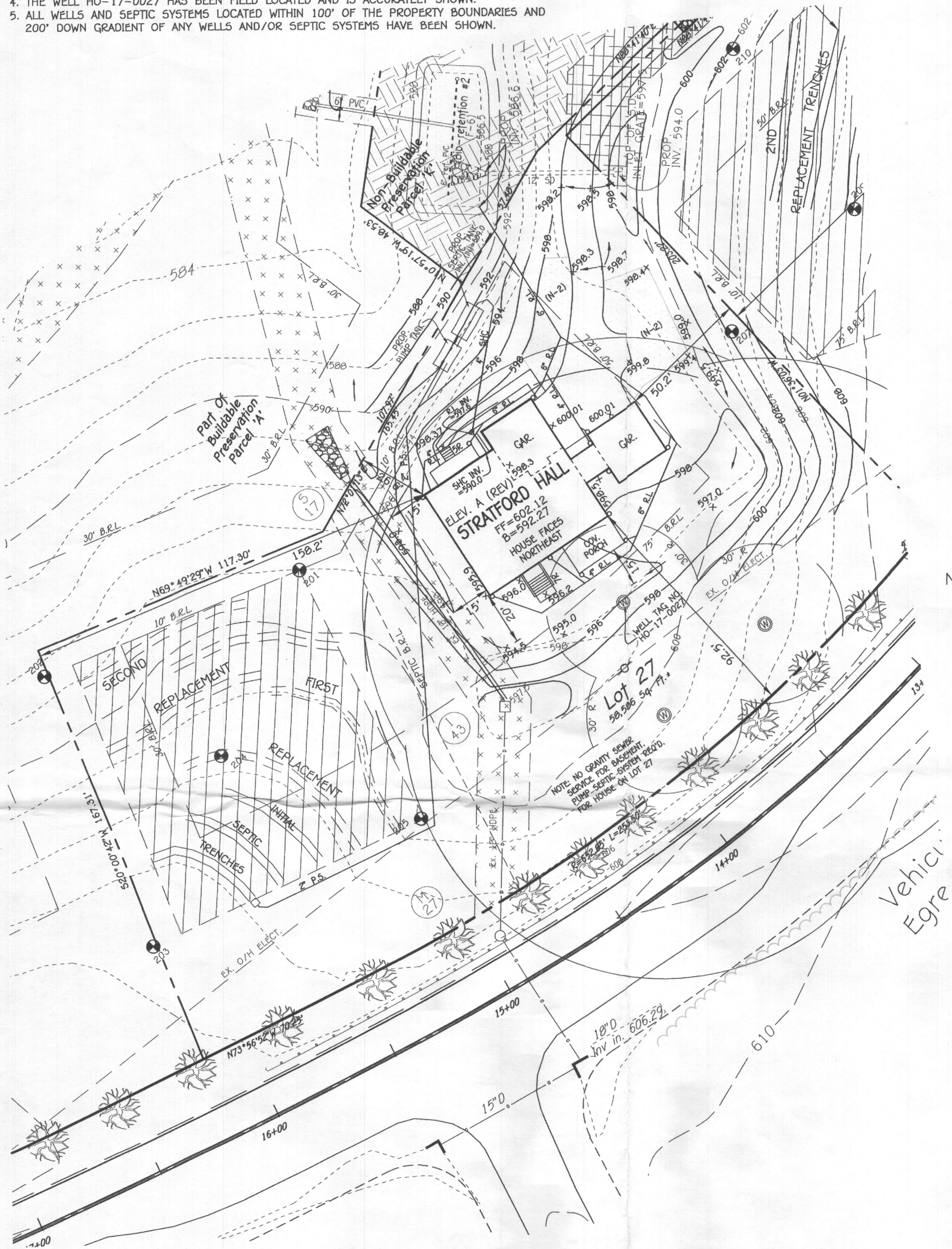
HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 6/25/19
FINAL LOCATION:
BOUNDARY SURVEY:

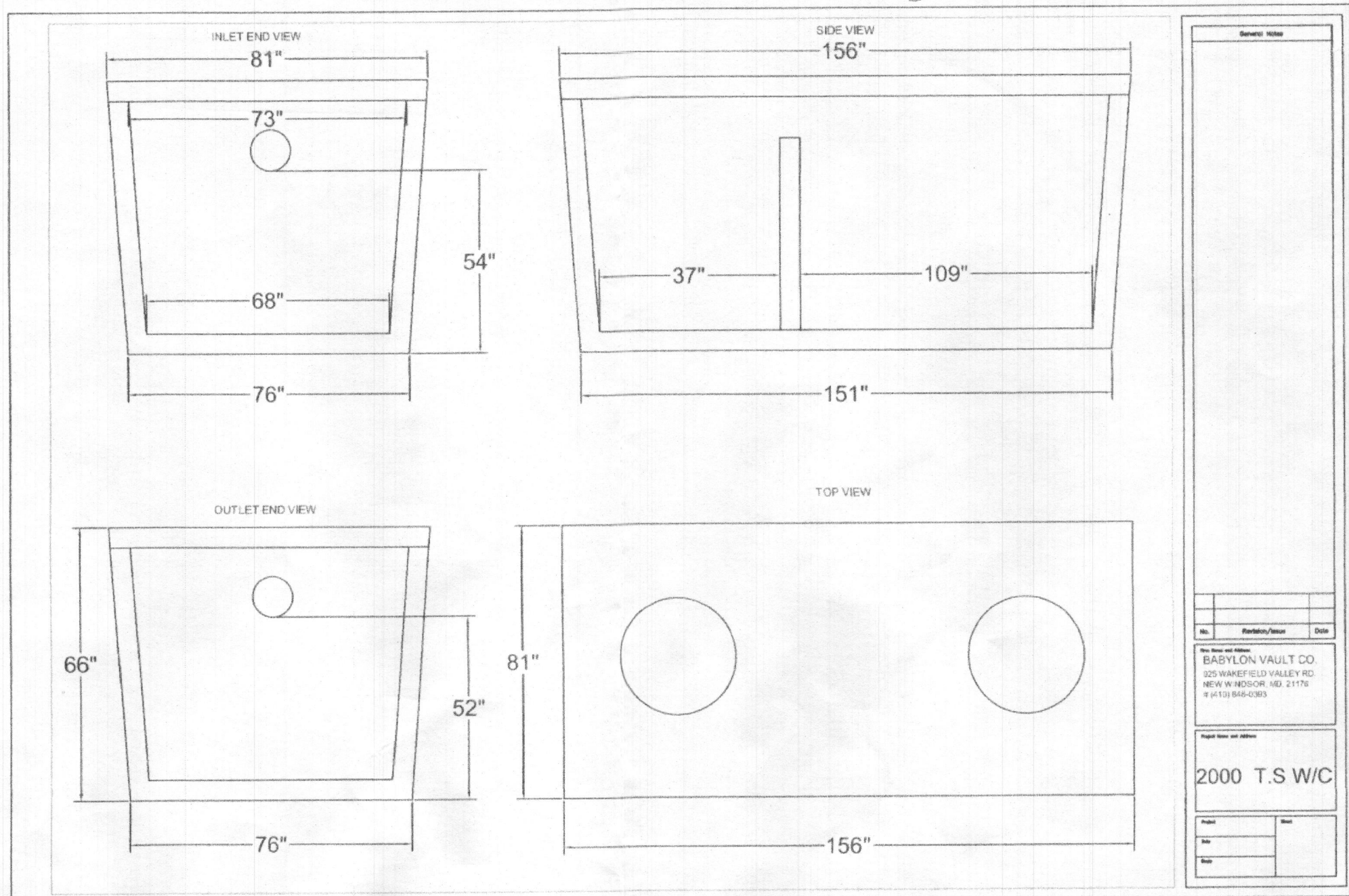
SCALE: 1"=60'
DATE: 7/2/19
DRAWN BY: MD
CHECKED BY: MLR
PROJECT No.: 05106-3003

LOT 27
FAIRLANE FARM
PHASE TWO
RESUBDIVISION PLAT-LOTS 19 THRU 44,
NON-BUILDABLE PRESERVATION PARCELS 'I' THRU 'N',
& REVISION PLAT-BUILDABLE PRESERVATION PARCEL 'A'
PLAT NOS. 24367 THRU 24372
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

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-17-0027 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.



NOTE: NO GRAVITY SEWER SERVICE FOR LOT 27



INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS

LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 4)) = 0.416$
TRENCH LENGTH = 312.5 SF X 0.416 = 130 FEET
(USE 3 TRENCHES AT 43.33 L.F.)
TRENCH SPACING = 2D+W = ((2 \times 4) + 3) = 11' USE 11'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS

LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 3)) = 0.5$
TRENCH LENGTH = 312.5 SF X 0.5 = 156.25 FEET
(USE 2 TRENCHES AT 78.13 L.F.)
TRENCH SPACING = 2D+W = ((2 \times 3) + 3) = 9' USE 10'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS

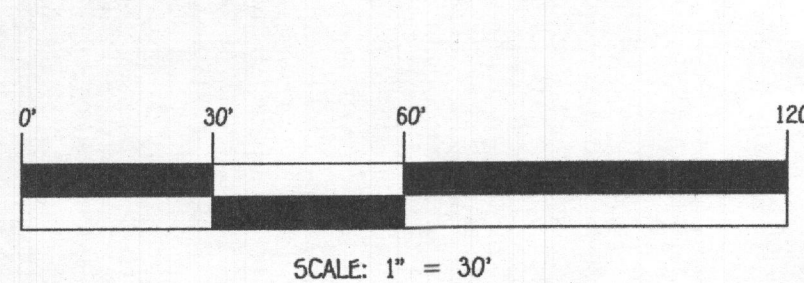
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 5 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2)) = 0.625$
TRENCH LENGTH = 312.5 SF X 0.625 = 195.31 FEET
(USE 3 TRENCHES AT 65.10 L.F.)
TRENCH SPACING = 2D+W = ((2 \times 2) + 3) = 7' USE 10'

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. 20740, EXPIRATION DATE: 02/22/2019.



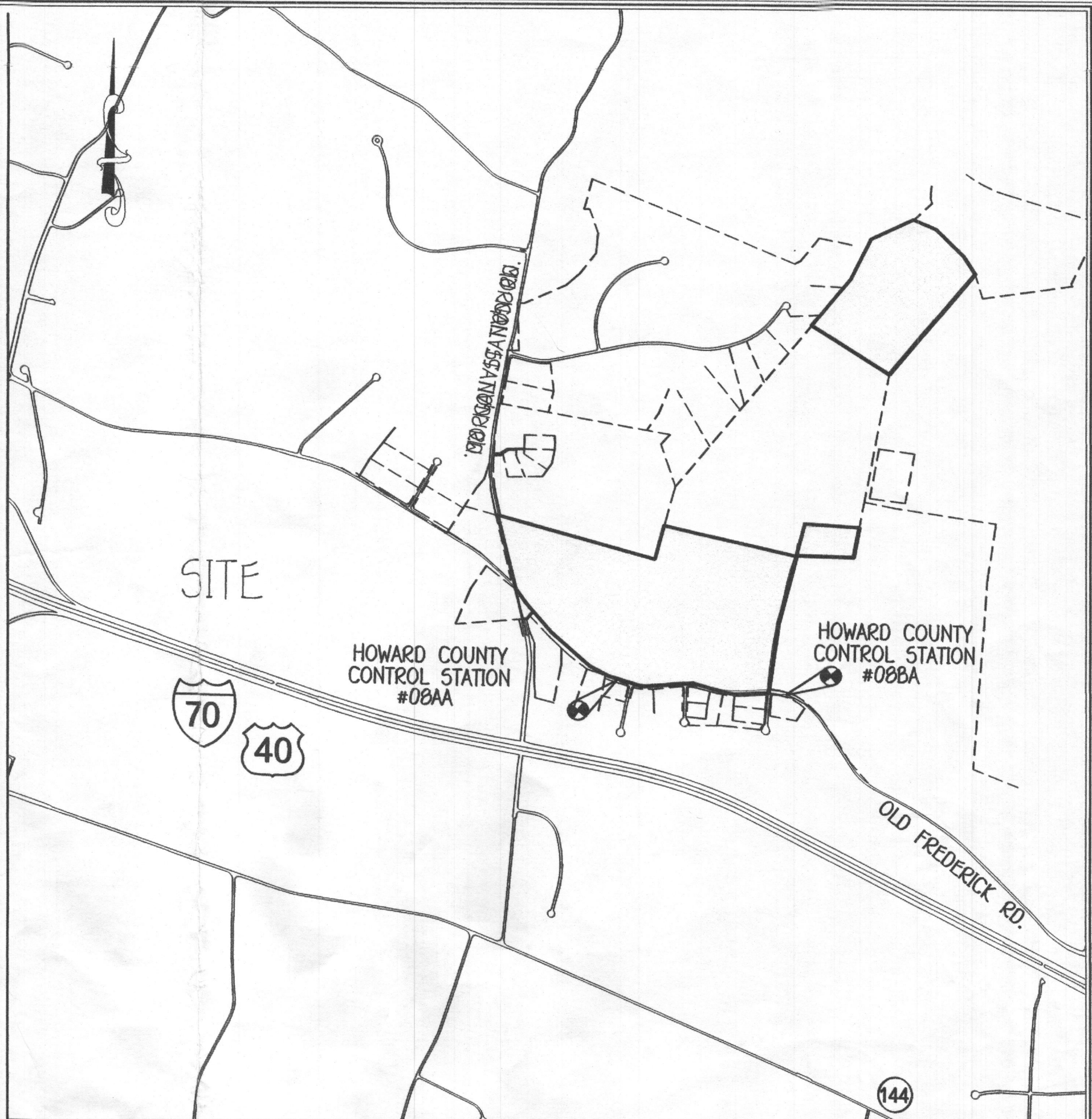
Signature of Professional Engineer
DATE: 5/30/19



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2099

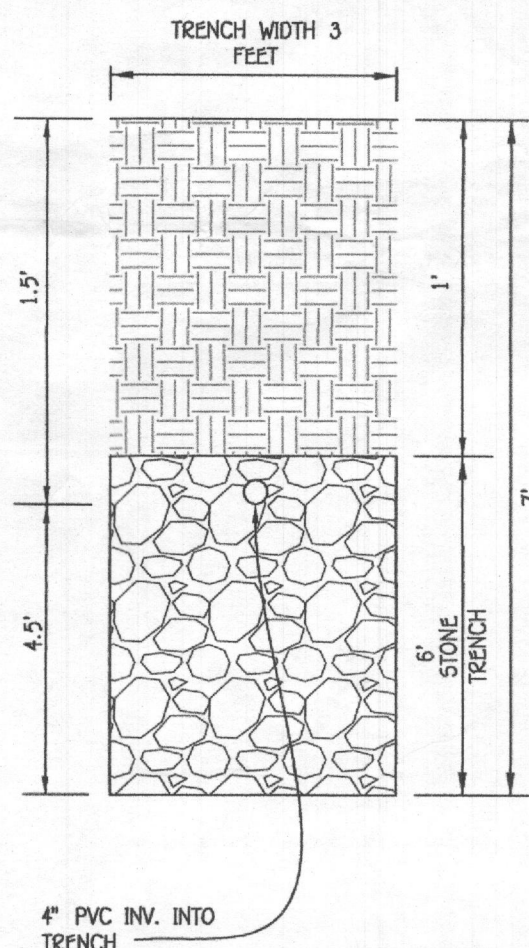
OWNER/DEVELOPER

NY HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-375-5956



VICINITY MAP

SCALE: 1" = 1200'



TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 605.8
INV. IN = 604.47
BOTTOM TRENCH = 598.8

TRENCH 2:
EX. GROUND ABOVE = 605.0
INV. IN = 603.67
BOTTOM TRENCH = 598.0

TRENCH 3:
EX. GROUND ABOVE = 604.8
INV. IN = 603.47
BOTTOM TRENCH = 597.8

Approved Septic System Plan
Howard County Health Department

Signature: [Signature] Date: 5/31/19

SEPTIC SYSTEM INSTALLATION SITE PLAN

LOT 27

15215 TORINO WAY

FAIRLANE FARMS

PHASE TWO

ZONED: RC-DEO

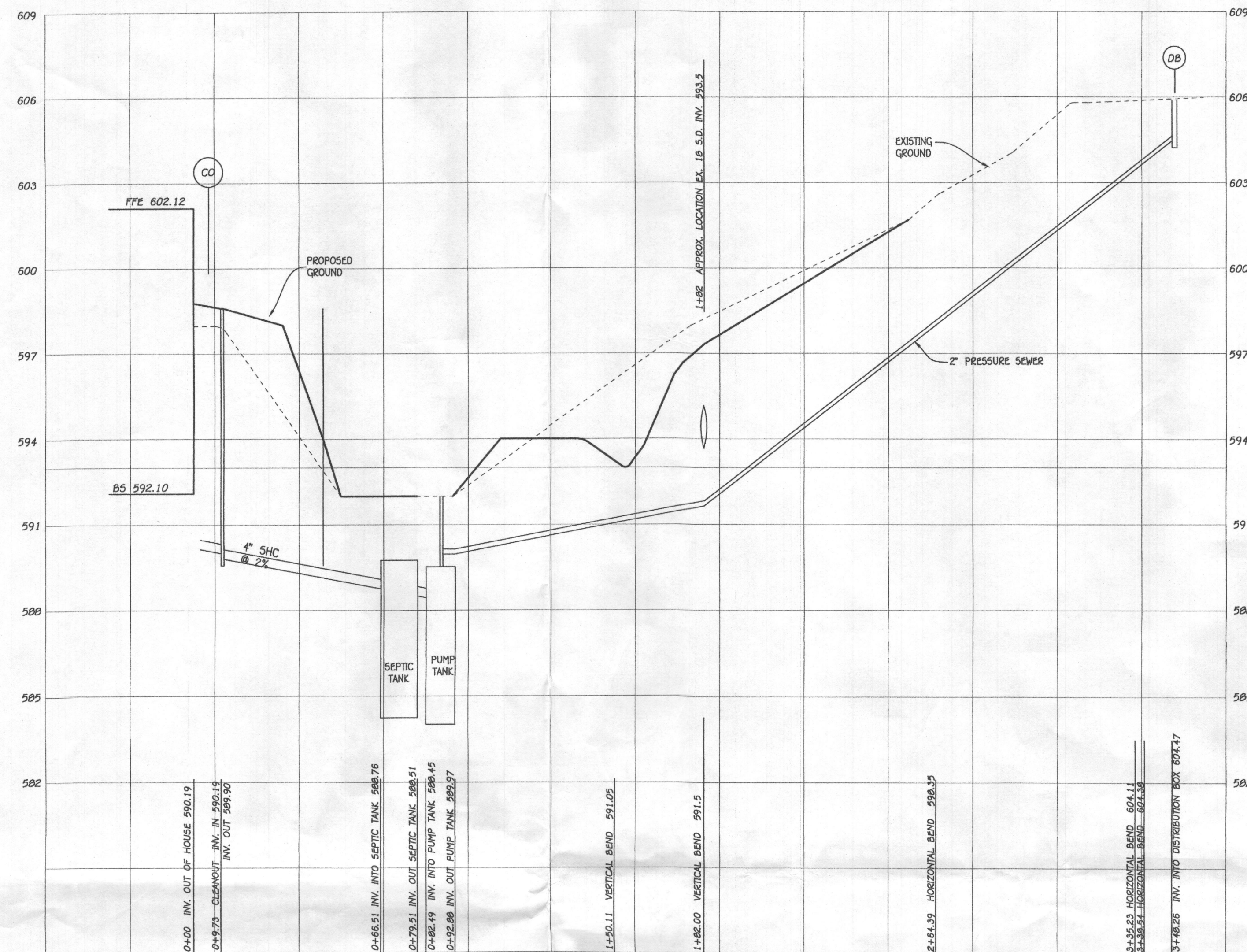
TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8

5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

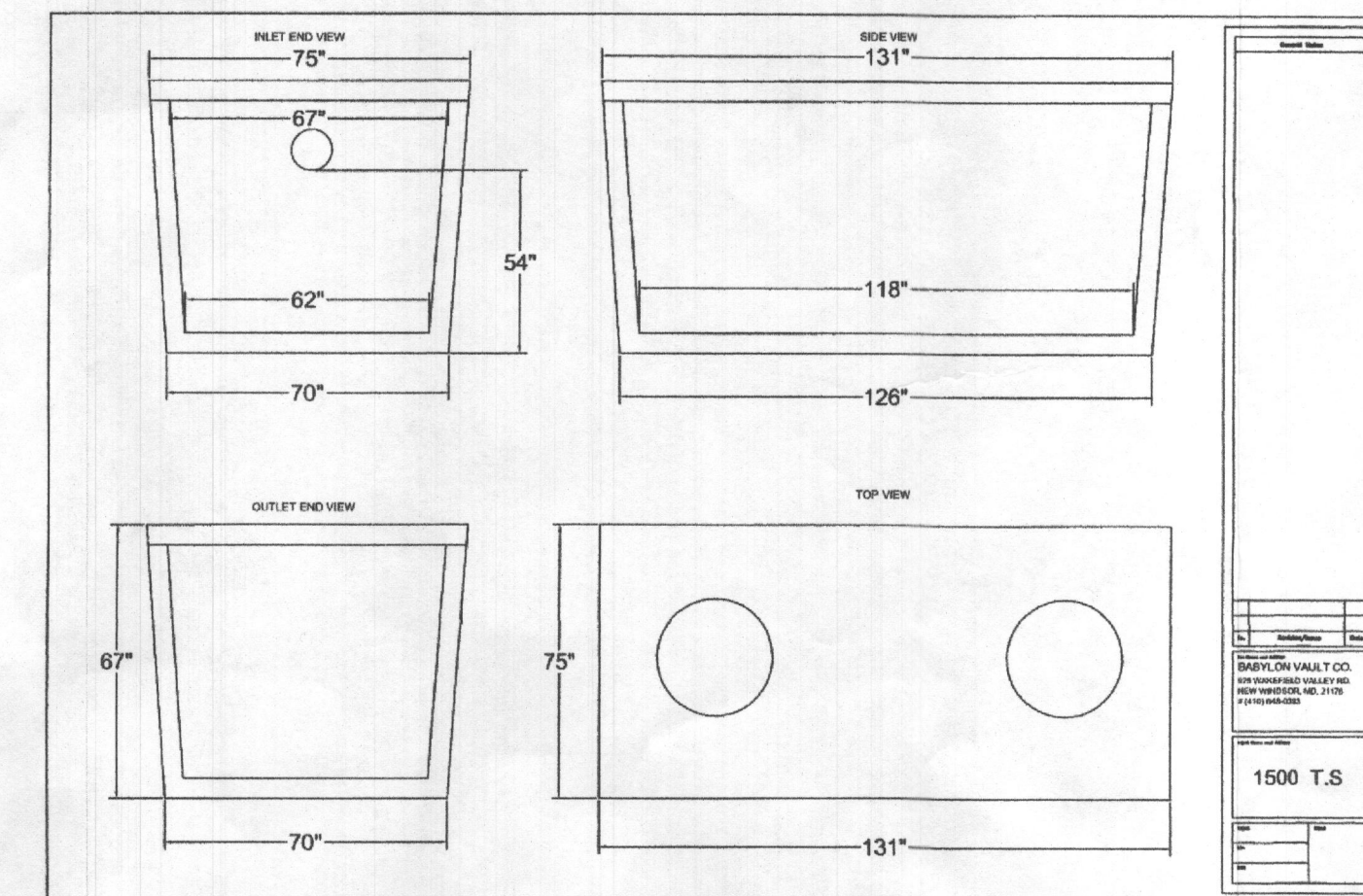
SCALE: 1"=30' DATE: MAY 10, 2019

SHEET 1 OF 2

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
27	15215 TORINO WAY



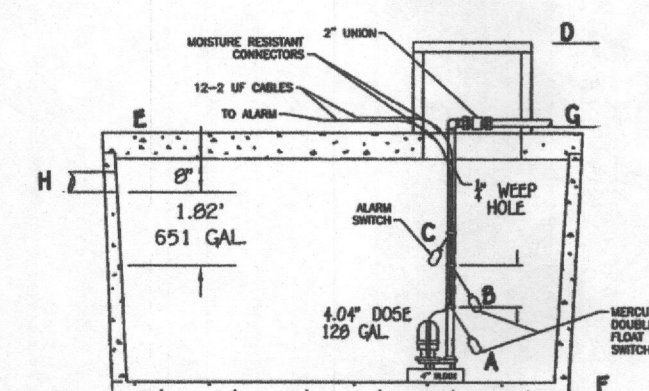
SEPTIC PROFILE
SCALE: 1"=30'



PUMP TANK DETAIL
NOT TO SCALE

NOTE: SEPTIC SYSTEM ALARM
WILL BE ON A CIRCUIT
SEPARATE FROM ANY
OTHER SEPTIC SYSTEM
COMPONENTS OR ALARMS.

PUMP ALARMS / INFORMATION
A PUMP OFF : 588.95
B PUMP ON : 586.29
C HIGH WATER ALARM : 586.63
D TOP OF ACCESS COVER : 592.1
E TOP OF TANK : 589.53
F BOTTOM OF TANK : 583.95
G DISCHARGE OUT OF TANK : 589.97
H INVERT INTO TANK : 588.45



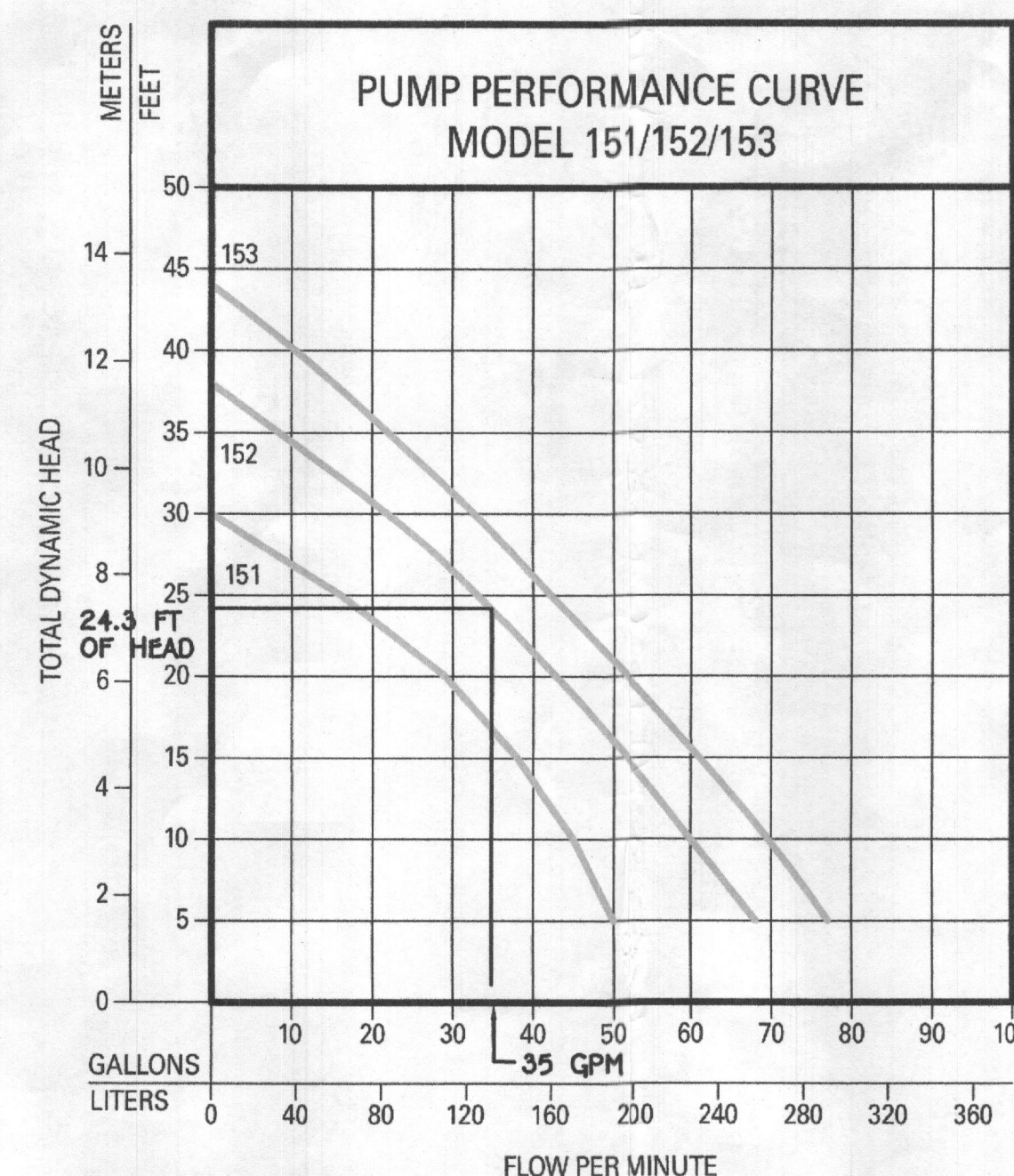
NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION
ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND
ACTUAL LOCATION OF ACCESS COVER.

2" SCH. 40 PVC = 260 LF
1 UNION @ 2 EQUIVALENT FEET = 2 LF
5 1/8 HB @ 4 EQUIVALENT FEET = 20 LF
TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 282 LF

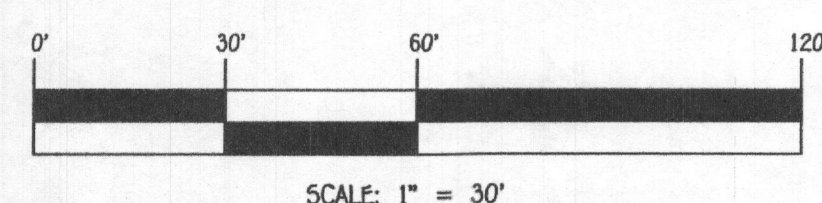
DYNAMIC HEAD
282 LF X 2.05 FT PER 100 LF OF 2" PIPE = 5.78 FT OF FRICTION HEAD
VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 4.02 FT OF FRICTION HEAD
HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV. OF SYSTEM = 14.50 FT (PUMP OUT IS THE HIGHEST POINT)
TOTAL DYNAMIC HEAD = 24.3 FT

1/6 DESIGN FLOW (750/16=125)
USE 140 GALLON DOSE (125 GALLON MINIMUM)
(RUN TIME = 4 MIN (35 GPM X 4 = 140 GALLON DOSE))

PUMP NEEDS TO HANDLE 35 GPM AT 24.3 FT OF HEAD
USE 0.5 HP (ZOLLER MODEL 152 PUMP)



FFE 602.12
BSE 592.27
INV. OUT OF HOUSE = 590.19
PROP. GROUND AT CLEANOUT # 1 = 590.6
INV. INTO CLEANOUT = 590.0
INV. OUT OF CLEANOUT = 589.9
EX. GROUND AT SEPTIC TANK = 592.0
PROP. GRADE ABOVE SEPTIC TANK = 592.1
TOP OF SEPTIC TANK = 589.76
INV. INTO SEPTIC TANK = 588.76
INV. OUT OF SEPTIC TANK = 588.51
EX. GROUND AT PUMP TANK = 592.0
PROP. GRADE ABOVE PUMP TANK = 592.1
TOP OF PUMP TANK = 589.45
INV. INTO PUMP TANK = 588.45
INV. OUT OF PUMP TANK = 589.97
EX. GROUND AT DISTRIBUTION BOX = 605.8
INV. INTO DISTRIBUTION BOX = 604.47
INV. OUT OF DISTRIBUTION BOX = 604.37



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 L. Dyer
Signature Of Professional Engineer

5/30/19
DATE

OWNER/DEVELOPER
NY HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-5956

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ELKOTT CITY, MARYLAND 21046
(410) 461-1200

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
27	15215 TORINO WAY

**SEPTIC SYSTEM
INSTALLATION SITE PLAN**

LOT 27
15215 TORINO WAY
FAIRLANE FARMS

PHASE TWO

ZONED: RC-DEO

TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: MAY 10, 2019
SHEET 2 OF 2