

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: 5/18/18 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 962997

APPROVAL DATE: 7/11/18 SEC **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1045 Fairlane Road

SUBDIVISION: Fairlane Farms LOT: 20 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 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>86.88</u> 104.2 <u>116'</u>	INLET DEPTH: <u>4'3"</u> <u>3.5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7'6"</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</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:	<u>Install 2-trenches @ 52.1</u>	

ISSUED BY: Hank Oswald ISSUE DATE: 5/18/18 EXPIRATION DATE: 5/18/19

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

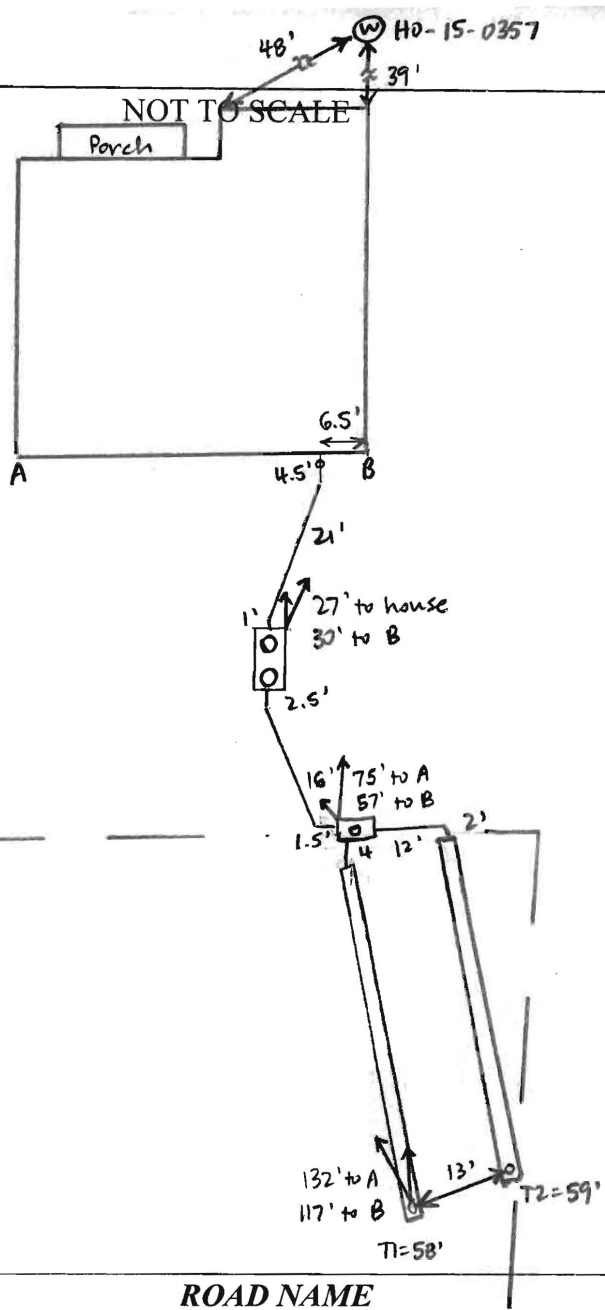
ELECTRICAL PERMIT ISSUED E _____

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.



1" = 30'

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3.5'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		117'
ABSORPTION AREA		234' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
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	2-2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	5-14-18

SEPTIC TANK 2 DATA	
RUMP/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:

6/21/18 Met S. Carroll on site for layout. SPA corners + tank staked. Per builder: sewer line comes out of house in location shown on plan, under frost footer. Plan shows hung sewer. Line likely @ 3' + at house will not make 3' inlet @ T1. Need plans revised by engineer. (SC) 7/9/18 Met S. Carroll on site for tank layout. OK to set tank per plan. (SC) 7/10/18 Met S. Carroll on site for trench layout. Will make 3.5' inlet - increase trench length to 116'. Shot contour + laid out 2x58' trenches. (SC)

INSTALLATION: 7/9/18 Tank set, house connection made. (SC) 7/11/18 Trenches complete. T1 left open @ ends for inspection + T2 left open. 3' wide, 3' to stone. D-box set + connected to tank + trenches. Levelled speed levelers in D-box. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 7/11/18



HOWARD COUNTY HEALTH DEPARTMENT

15-62997

DATE 5/18/18

South Carroll Beckhoe

PHONE # 410-596-3618

CASH CHECK

00

For 1030 Fairlane Road, 1041 Fairlane Road,
1045 Fairlane Road, 15326 Galaxy Drive,
12410-Hillcrest (Septic Permits)

One thousand nine hundred & eighty - Dollars

1980 00

Received By V. Delaney

**FISHER, COLLINS
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS**

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

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 Fax: Phone: 410-313-2640
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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 20	W.O.# 05106-3003
Date: July 5, 2018	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 20, 1045 Fairlane Rd.

Here are 3 new copies of the OSDS for Lot 20 for your review. Please let me know if you have any questions.

Thank You,

Tony.

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

CONFIDENTIALITY NOTICE

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 20	W.O.# 05106-3003
Date: March 27, 2018	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
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To: Bureau of Environmental Health 8930 Stanford Blvd. Columbia, Maryland 21046-4544	Attn: Hank Fax: Phone: 410-313-2640
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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 20	W.O.# 05106-3003
Date: April 13, 2018	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

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Oswald, Hank

From: Oswald, Hank
Sent: Thursday, March 29, 2018 12:16 PM
To: 'Tony Fertitta'
Subject: RE: Fairlane Farms, Phase 2 Redline of F Plans
Attachments: OSDS Memo To FCC_2018_Lot 20.pdf; OSDS Memo To FCC_2018_Lot 24.pdf

Hi Tony:

Attached, please find memos for Fairlane Farms, Lot 20 and 24.

Thanks,

Hank

From: Tony Fertitta [<mailto:tonyf@fcc-eng.com>]
Sent: Thursday, March 29, 2018 10:38 AM
To: Oswald, Hank
Subject: FW: Fairlane Farms, Phase 2 Redline of F Plans

Hank can you review Lots 20 & 24 first please. Thx.

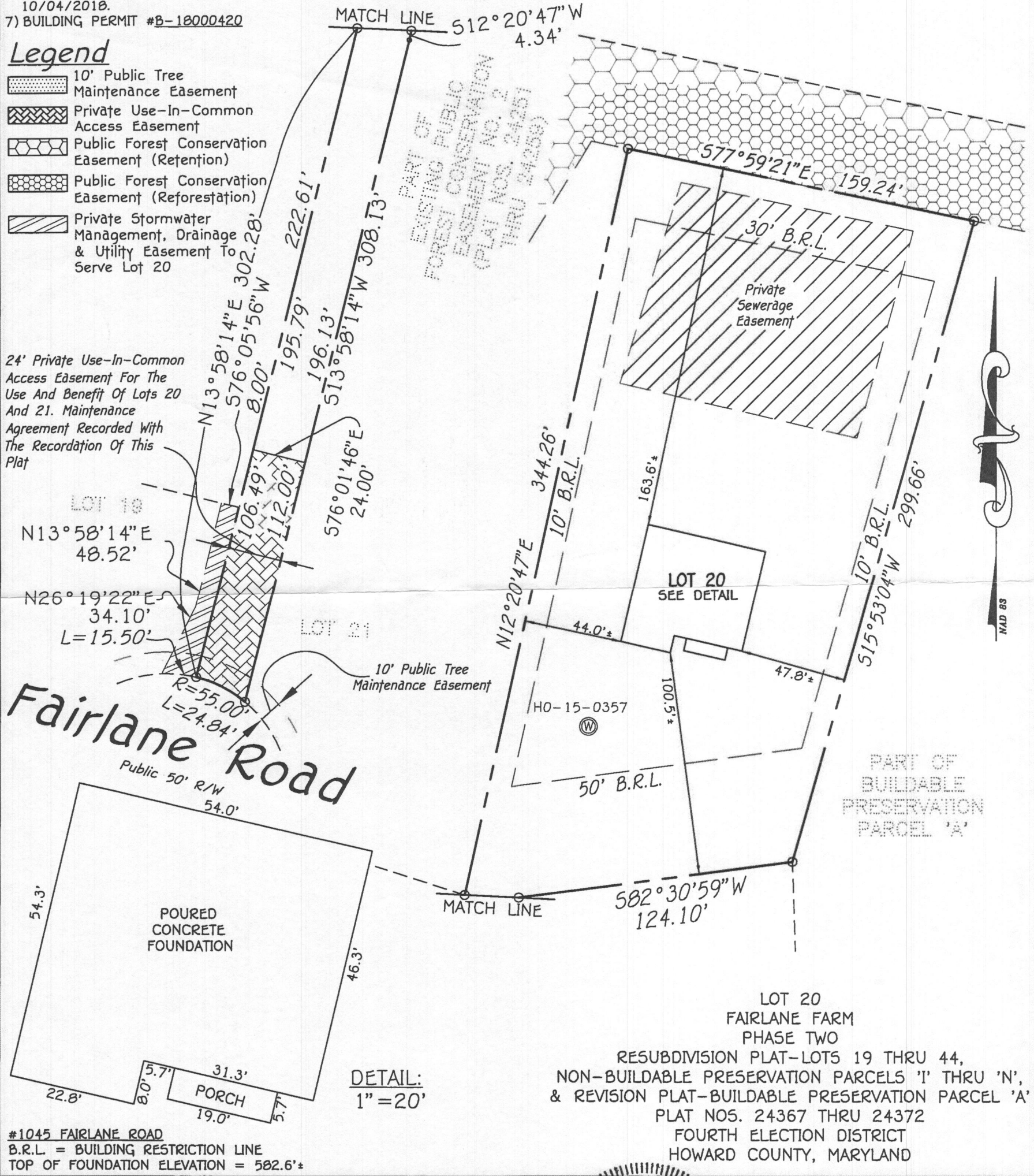
GENERAL NOTES:

- 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. 24027C0035D 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 1'.
- 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-15-0357 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 10/04/2018.
- 7) BUILDING PERMIT #B-18000420

Legend

- 10' Public Tree Maintenance Easement
- Private Use-In-Common Access Easement
- Public Forest Conservation Easement (Retention)
- Public Forest Conservation Easement (Reforestation)
- Private Stormwater Management, Drainage & Utility Easement To Serve Lot 20

24' Private Use-In-Common Access Easement For The Use And Benefit Of Lots 20 And 21. Maintenance Agreement Recorded With The Recordation Of This Plat



#1045 FAIRLANE ROAD
 B.R.L. = BUILDING RESTRICTION LINE
 TOP OF FOUNDATION ELEVATION = 582.6'±

LOT 20
 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

5/18/18. well check
 okay - H.C.

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

Drawing Name:



Mark J. Robel 5/07/18
 PROPERTY LINE SURVEYOR DATE
 REG. #339

HOUSE LOCATION DRAWING

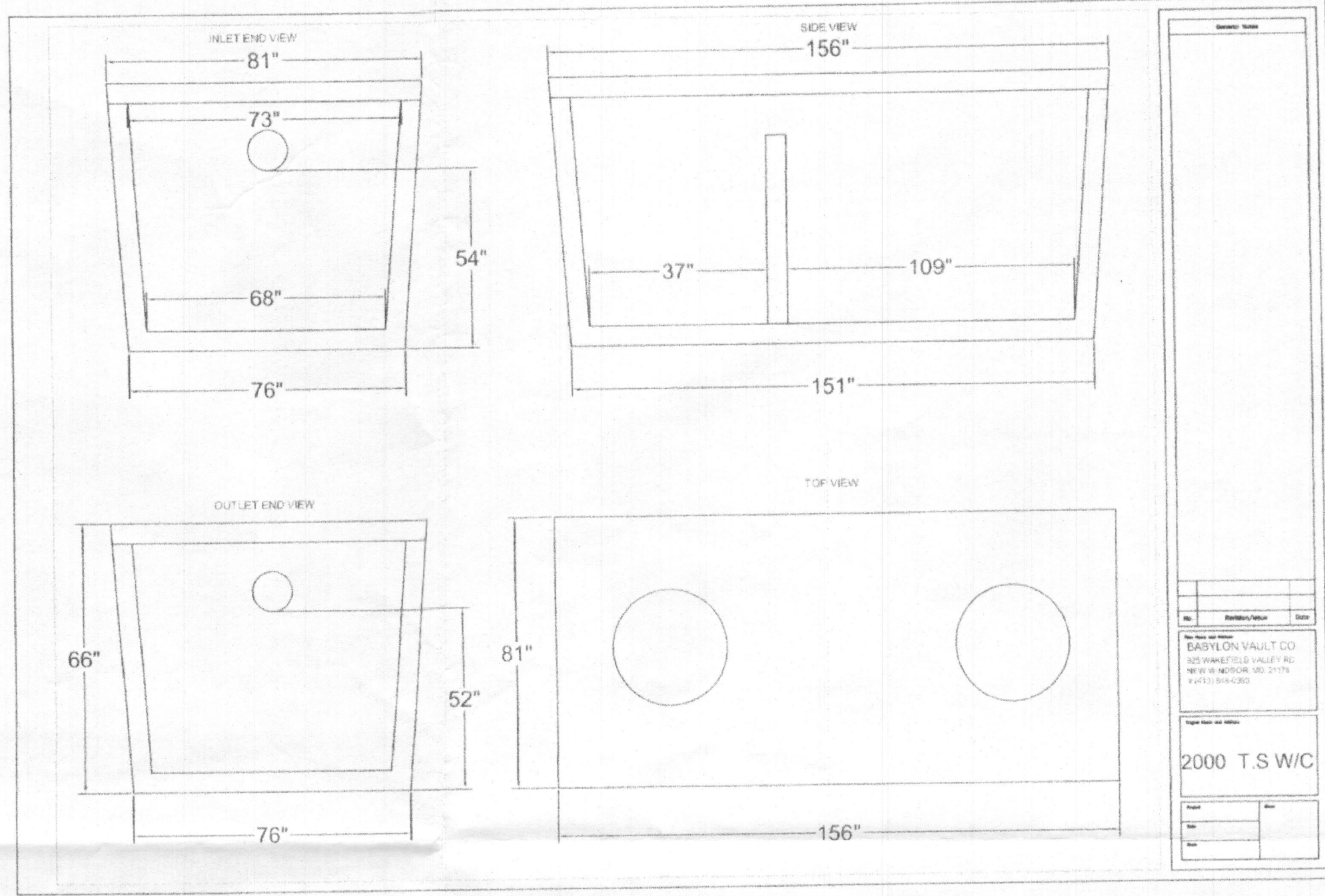
FOUNDATION LOCATION: 5/4/18
 FINAL LOCATION: _____
 BOUNDARY SURVEY: _____

SCALE: 1" = 50'
 DATE: 5/7/18
 DRAWN BY: MD
 CHECKED BY: MLR
 PROJECT No.: 05106-3003

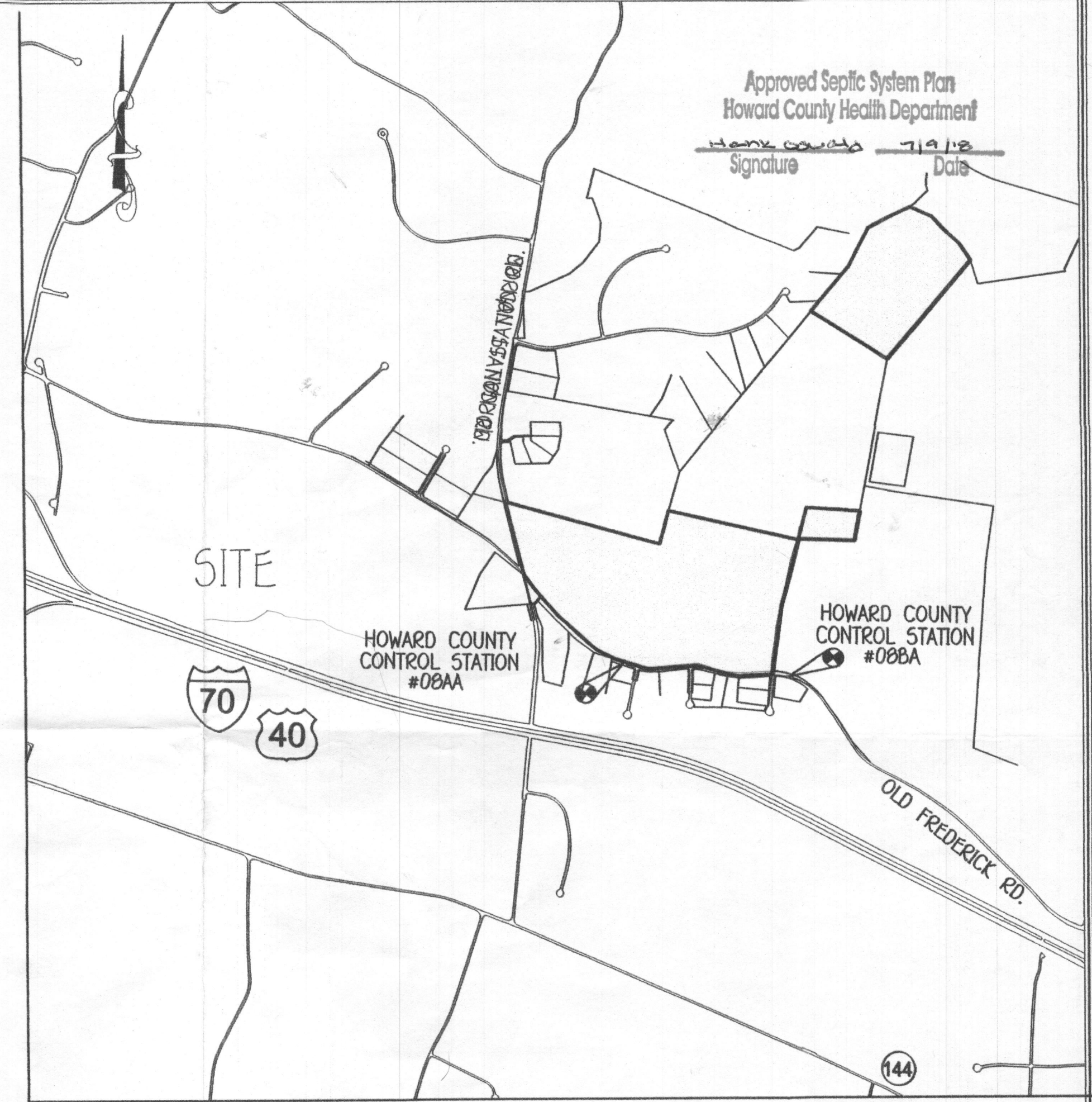
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-15-0357 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.



PLAN
SCALE: 1" = 30'



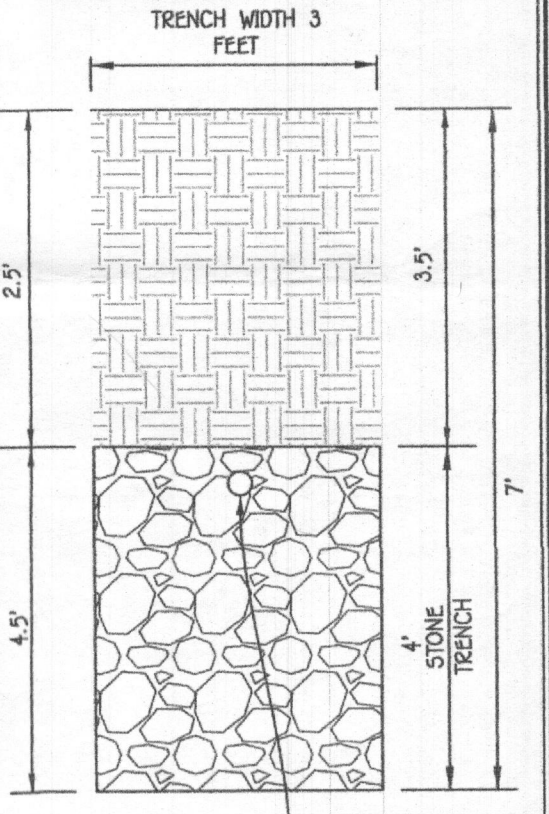
NO.	DESCRIPTION	DATE
1	2000 T.S.W.C.	



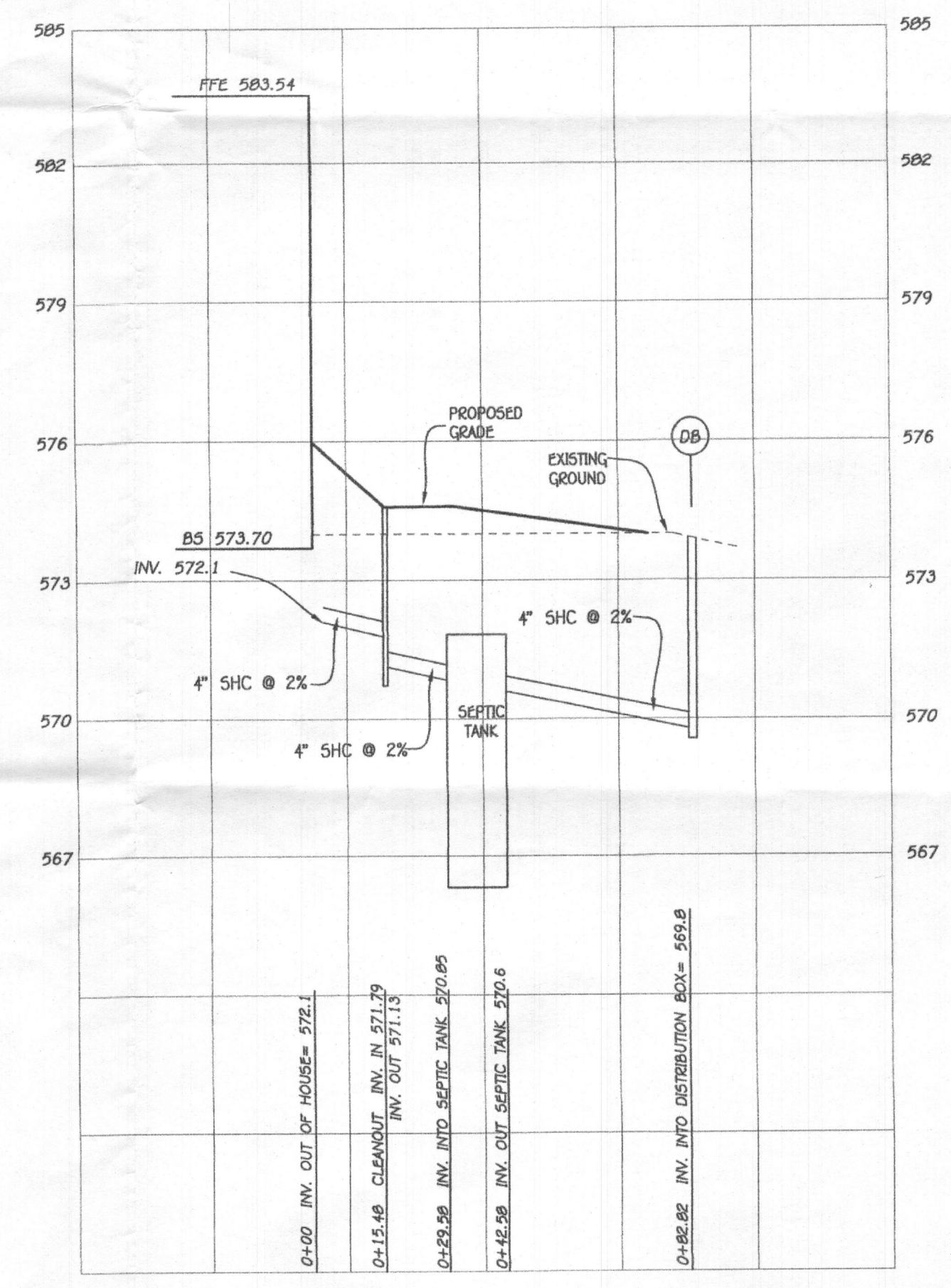
VICINITY MAP
SCALE: 1" = 1200'

FFE 583.54
 BSE 573.70
 INV. OUT OF HOUSE = 572.1
 PROP. GROUND AT CLEANOUT #1 = 574.6
 INV. INTO CLEANOUT = 571.794
 INV. OUT OF CLEANOUT = 571.13
 EX. GROUND AT SEPTIC TANK = 573.2
 PROP. GRADE ABOVE SEPTIC TANK = 574.6
 TOP OF SEPTIC TANK = 571.05
 INV. INTO SEPTIC TANK = 570.05
 INV. OUT OF SEPTIC TANK = 570.6
 EX. GROUND AT DISTRIBUTION BOX = 573.7
 INV. INTO DISTRIBUTION BOX = 569.8
 INV. OUT OF DISTRIBUTION BOX = 569.7

TRENCH DATA:
TRENCH 1:
 EX. GROUND ABOVE = 573.7
 INV. IN = 569.7
 BOTTOM TRENCH = 568.7
TRENCH 2:
 EX. GROUND ABOVE = 572.1
 EX. IN = 568.1
 BOTTOM TRENCH = 567.1



INITIAL TRENCH DETAIL
SCALE: 1" = 2'



SEPTIC PROFILE
SCALE: 1" = 30'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3 FEET
 SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.417
 TRENCH LENGTH = 208.33 SF x 0.417 = 86.88 FEET
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3 FEET
 SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.417
 TRENCH LENGTH = 208.33 SF x 0.417 = 86.88 FEET
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

2ND REPLACEMENT SYSTEM

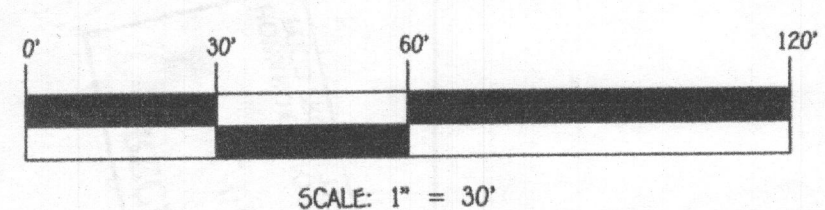
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 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
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 TRENCH LENGTH = 208.33 SF x 0.417 = 86.88 FEET
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

SEPTIC SYSTEM INSTALLATION SITE PLAN

LOT 20
 1045 FAIRLANE ROAD
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: JULY 5, 2018
 SHEET 1 OF 1

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
20	1045 FAIRLANE ROAD



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10770 BALDWIN ROAD, SUITE 100
 ELICOTT CITY, MARYLAND 21046
 (410) 461-2895

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



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.
 Signature of Professional Engineer: *Michael J. Vitucci*
 DATE: 7/5/18