

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 D	DATE: 11/16/18 ONSITE SEWAGE DISPOSAL SYSTEM P 564071					
APPROVAL [DATE: 11/29/18 SEC PERMIT: CONSTRUCTION A					
PROPERTY A						
SUBDIVISION: Fairlane Farm LOT: 28 TAX ID: 04-600177						
CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.net						
CONTRACTOR ADDRESS: 4410 Salem Bottom Road PHONE: 410-596-3618						
PROPERTY O	WNER: NV Homes EMAIL:					
OWNER ADDR	ESS: 9720 Patuxent Woods Drive PHONE: 410-379-5956					
SEPTIC TANK S	IZE (GALLONS): 2000 TANK MANUFACTURER: Babylon					
PUMP MODEL	: PUMP TANK CAPACITY:					
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2						
	LINEAR FEET REQUIRED: 104 INLET DEPTH: 3					
TRENCHES:	TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 7					
	MINIMUM SPACE BETWEEN TRENCHES: 10 EFFECTIVE AREA BEGINNING DEPTH: 3					
LOCATION:	LOCATION: PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.					
	Install two 52' trenches.					
NOTES:						
ISSUED BY:	Sarah Collins ISSUE DATE: 11/16/18 EXPIRATION DATE: 11/16/19					
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						
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.

₩ H0-15-0376		
NOT TO SCALE	[1" 230]	TRENCH/DRAINFIELD DATA WIDTH INLET BOTTOM 3' 3' 7'
well v		NUMBER OF TRENCHES 2 TOTAL LENGTH 103'
^		ABSORPTION AREA 309' + SIDEWAL
		DISTRIBUTION BOX LEVEL YES
		DISTRIBUTION BOX BAFFLE YES DISTRIBUTION BOX PORT YES
		DISTRIBUTION BOATONI
18'		SEPTIC TANK DATA
7, 1 S4' to A (8.5')		SEPTIC TANK I LEVEL YES MANUFACTURER BABYLON
1 23'w B B		CAPACITY 2000 GAL
24' to honse		SEAM LOC TOP TANK LID DEPTH 2-2.5'
17 30' 10 6		BAFFLES YES
13' 36' to 8 The ST'		BAFFLE FILTER NO MANHOLE LOC FRONT + REAR
2/14.5		6" PORT LOC NONE
19/ 3',1' step T2: 52'		WATERTIGHT TEST No
		SLOTTED YES DATE ON LID 10-2-18
/		RUMP/SEPTIC TANK LEVEL
	\	MANUFACTURER
	\	CAPACITYGAL
		SEAM LOC TANK LID DEPTH
/		BAFFLES
	,	MANHOLE LOC
/	1	6" PORTLOC
		WADERTIGHT TEST
ROAD NAME	 	DATE ON LID
PRE-CONSTRUCTION: 11/20/18 Met S. Connoil on site for layout. SDA Co.	mers + tank sta	ked. Shot contour . laid out
2.52' trenches. Server line comes out under		
at trenches, there is room to extend trench	es (contractor wi	11 notify HCHD). ®
		N
INSTALLATION: 11/28/18 T) day, S. Corroll adding &	tone, 3' wide,	3' inlet. Wider 15-25' from
start due to a perc hole Tourk hole dug. waiting	g on delivery. 60	11/29/18 Tank set, house
Connection made. D-box set · connected to tank	c and trench	es. The left open for inspection
3' wide, 2.5' to stone. Leveled speed levelors in	D-box. (SC)	
FINAL INSPECTOR	DATE OF APPROV	/AL11/29/18

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 ESTRABLISHMENT OR PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTRABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DEAWING 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, MARTHAND, COMMINITY PANEL NO. 2402720035D. EFFECTIVE 11—05–2013. 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1.0°. 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD. 5) THE EXISTING WELL(5) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO—15–0376 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 #8—18003159 BUILDABLE PRESERVATION PARCEL 'A'

Legend

Existing Private Stormwater Management, Access, Drainage & Utility Easement

Public Stormwater Management, Access, Drainage & Utility Easement

10' Public Tree Maintenance Easement

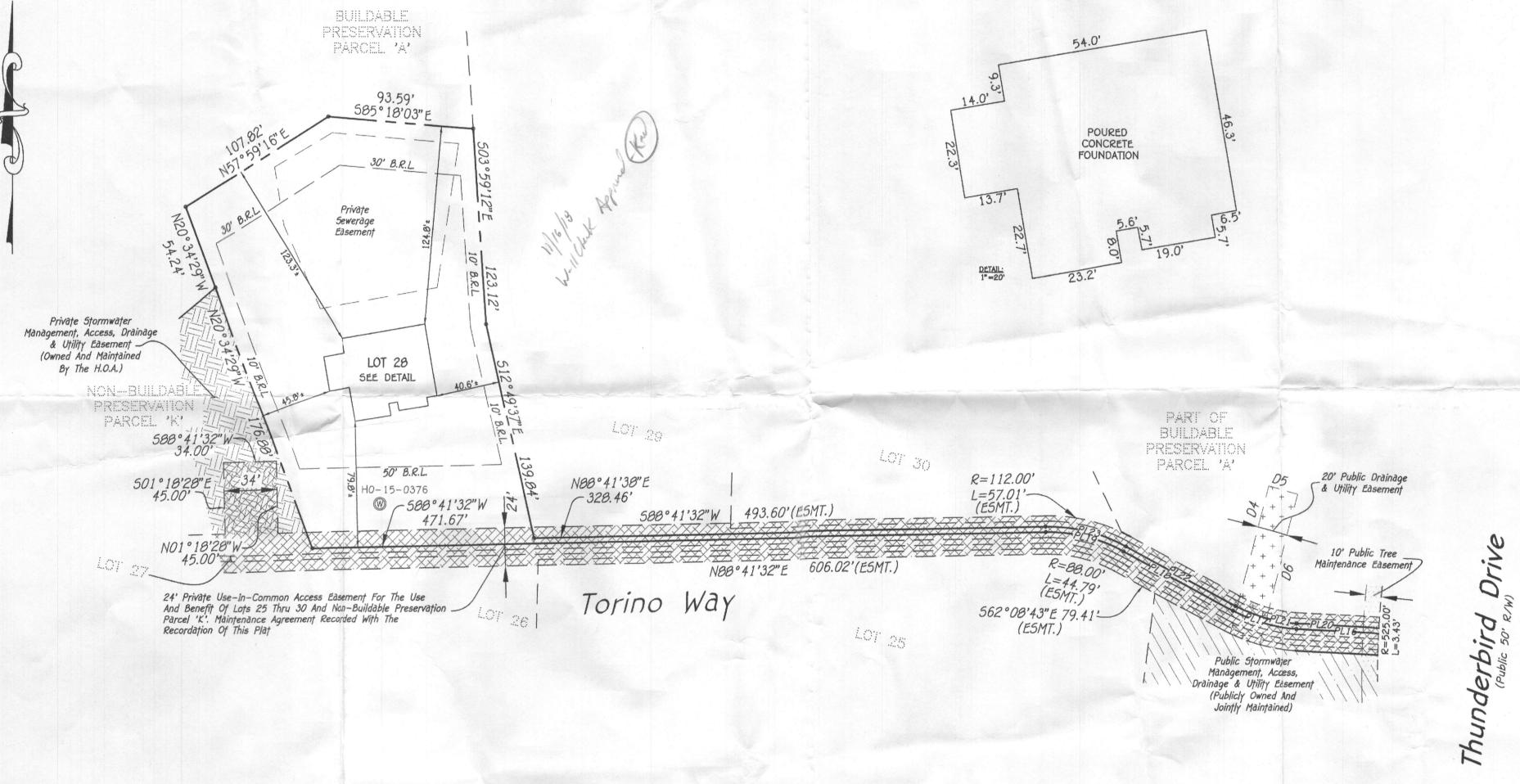
Public Drainage & Utility Easement

Public And Private
Drainage & Utility
Easement Line Table

Eas	lable	
LINE	BEARING	LENGTH
D4	N14°40'57"E	96.43
05	575° 19'03" E	20.00'
D6	514° 40'57"W	98.31'

Property Line Metes And Bounds Line Table

	LINE	BEARING	LENGTH
	PL16	N87°24'40"W	52.59'
	PL17	R=98.29'	L=43.34'
	PL18	N62°08'43"W	79.41'
	PL19	R=101.71'	L=51.77'
	PL20	N87°24'40"W	52.61'
	PL21	R=94.86'	L=41.83'
	PL22	N62°08'43"W	79.41'
	PL23	R=105.14'	L=53.51'

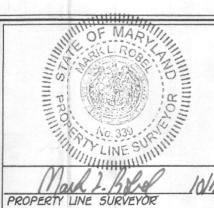


#15212 TORINO WAY

B.R.L. = BUILDING RESTRICTION LINE

TOP OF FOUNDATION ELEVATION = 602.6'±





REG. #339

HOUSE LOCATION
DRAWING
FOUNDATION LOCATION: 10/8/18

FOUNDATION LOCATION: 10/8/18
FINAL LOCATION:
BOUNDARY SURVEY:

SCALE: 1"=50'
DATE: 10/11/18
DRAWN BY: MD
CHECKED BY: MLR
PROJECT No.:05106-3003

LOT 28

FAIRLANE FARM
PHASE TWO

RESUBDIVISION PLAT-LOTS 19 THRU 44,

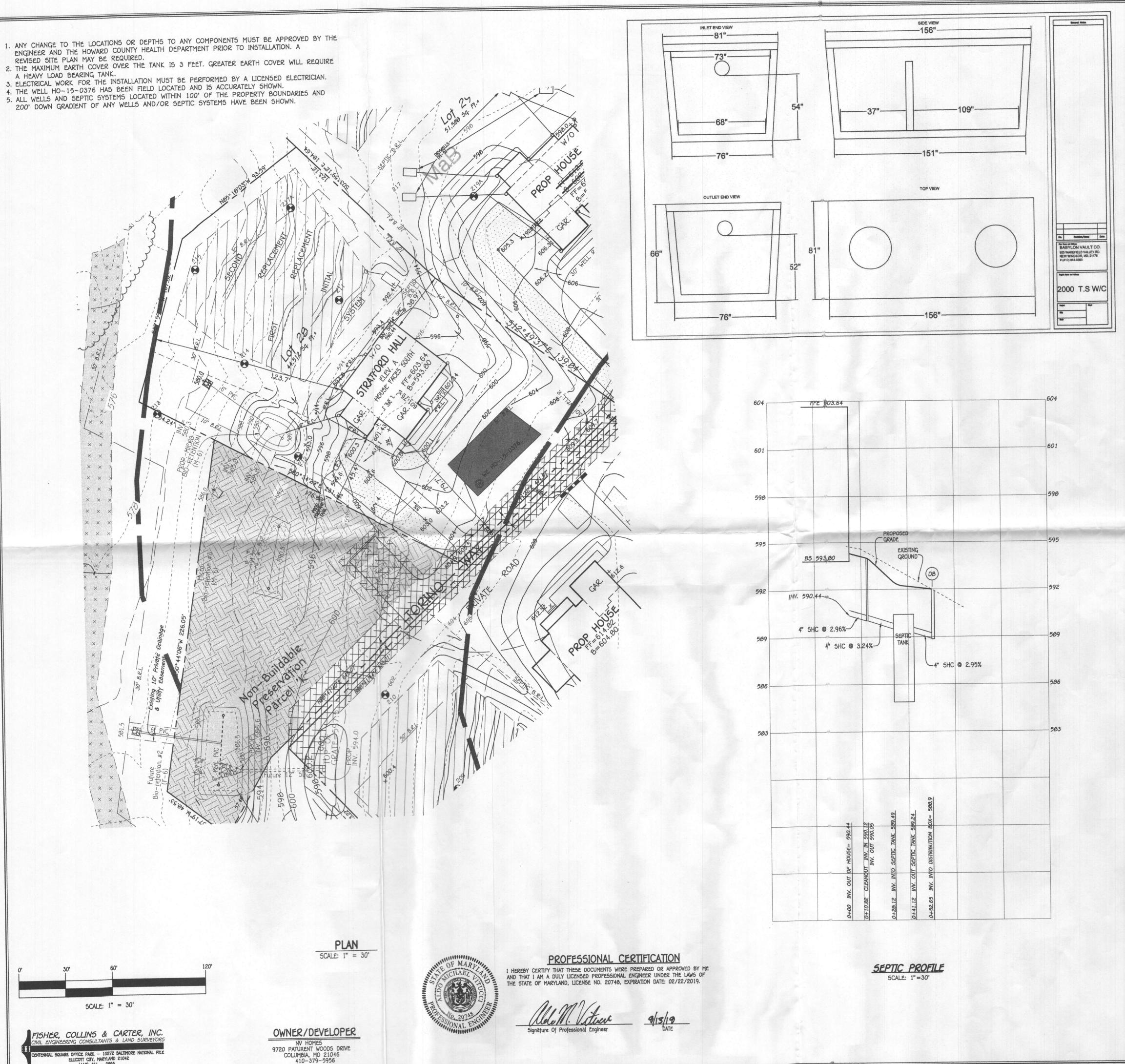
NON-BUILDABLE PRESERVATION PARCELS 'I' THRU 'N',

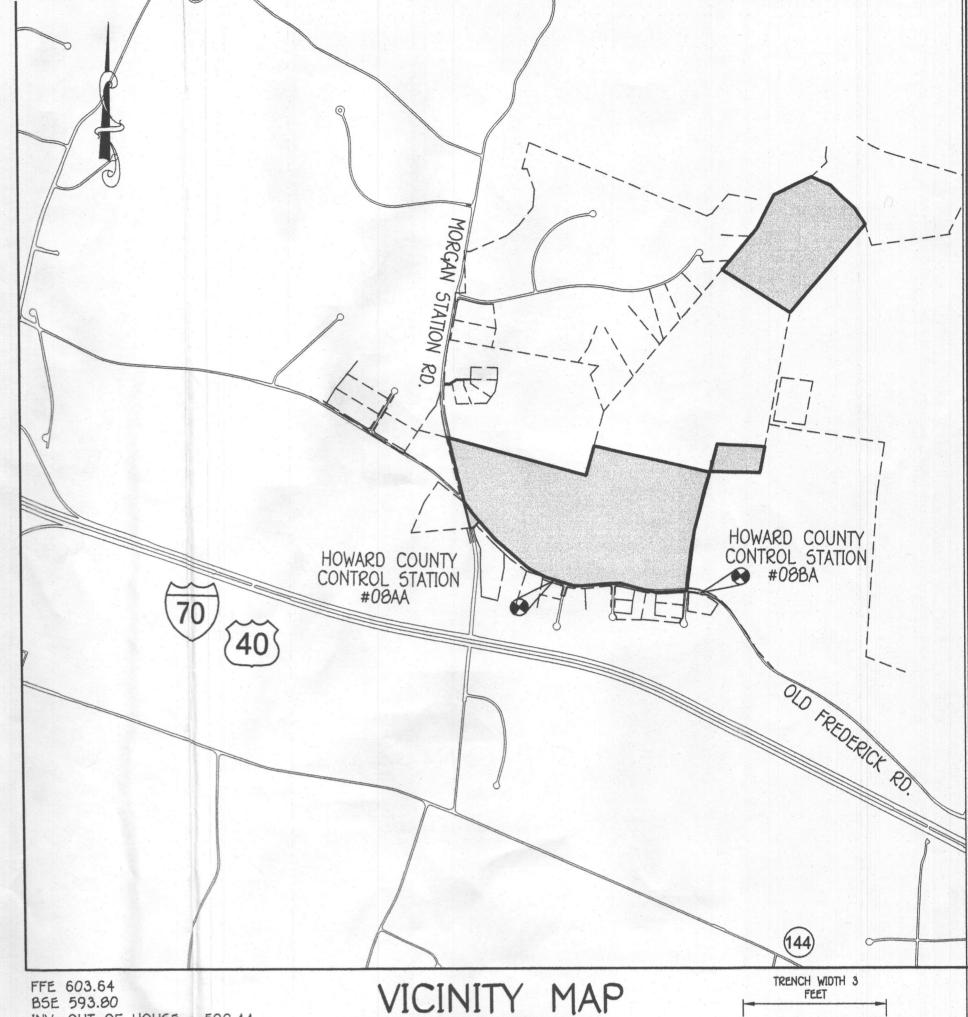
& REVISION PLAT-BUILDABLE PRESERVATION PARCEL 'A'

PLAT NOS. 24367 THRU 24372

FOURTH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND





TRENCH DATA:

6 BEDROOMS

TRENCH 1: EX. GROUND ABOVE = 591.8

INV. OUT OF HOUSE = 590.44 PROP. GROUND AT CLIANOUT #1 = 594.0 SCALE: 1" = 1200' INV. INTO CLEANOUT = 590.22 INV. OUT OF CLEANOU = 590.12 EX. GROUND AT SEPTE TANK = 592.4 PROP. GRADE ABOVE SEPTIC TANK = 592.4 TOP OF SEPTIC TANK = 590.49 INV. INTO SEPTIC TANK = 589.49 INV. OUT OF SEPTIC TANK = 589.24 EX. GROUND AT DISTRBUTION BOX = 591.8 INV. INTO DISTRIBUTION BOX = 588.9 INV. OUT OF DISTRIBUTION BOX = 588.8

INV. IN = 588.8 BOTTOM TRENCH = 584.8 Approved Septic System Plan TRENCH 2: EX. GROUND ABOVE = 589.9 INV. IN = 586.9 Hank Osward 8/20/18 BOTTOM TRENCH = 582.9

4" PVC INV. INTO TRENCH -INITIAL TRENCH DETAIL SCALE : 1"=2"

INITIAL SYSTEM SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 1.2 EFFECTIVE SIDEWALL BEGINS AT 3 FEET TRENCH DEPTH = 7 FEET TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 4 FEET SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+20)=(3+2)/(1+1+(2x4))=.416TRENCH LENGTH = 750 5Fx .416 = 104.00 FEET (USE 2 TRENCHES AT 52.01 L.F.)

TRENCH SPACING = 2D+W = ((2*4) + 3) = 11' USE 11'

15T REPLACEMENT SYSTEM SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS LOADING RATE = 6 BEDROMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 1.2 EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET TRENCH DEPTH = 7.5 FEET TRENCH WIDTH (W) = 3 FLET EFFECTIVE DEPTH (D) = 45 FEET SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+20)=(3+2)/(3+1+(2x4.5))=384TRENCH LENGTH = 750 Sf x .384 = 96.00 FEET (USE 2 TRENCHES AT 48.0) L.F.) TRENCH SPACING = 20+W = ((2*4.5) + 3) = 12' USE 12'

ADDRESS CHART

28 1521) TORINO WAY

STREET ADDRESS

LOT NUMBER

LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 0.8 EFFECTIVE SIDEWALL BEGINS AT 3 FEET

TRENCH DEPTH = 8 FEET TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 5 FEET 5F OF DRAINFIELD = 900 GPD / 0.8 = 1125 5F COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x5))=0.357TRENCH LENGTH = 312.5 SF x 0.357 = 144.00 FEET (USE 2 TRENCHES AT 72.00 L.F.) TRENCH SPACING = 2D+W = ((2*5) + 3) = 13' USE 13'

2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR

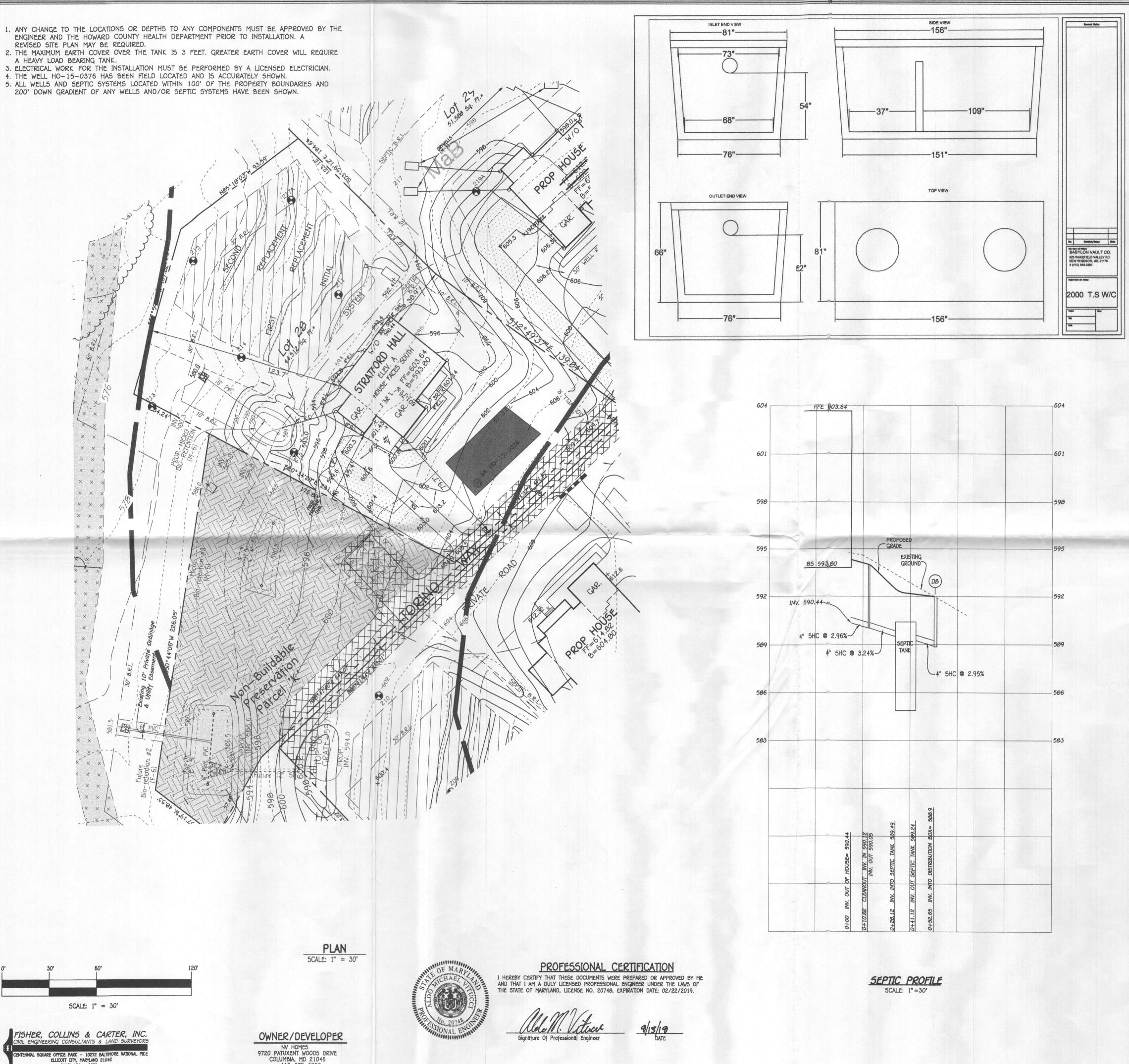
SEPTIC SYSTEM INSTALLATION SITE PLAN

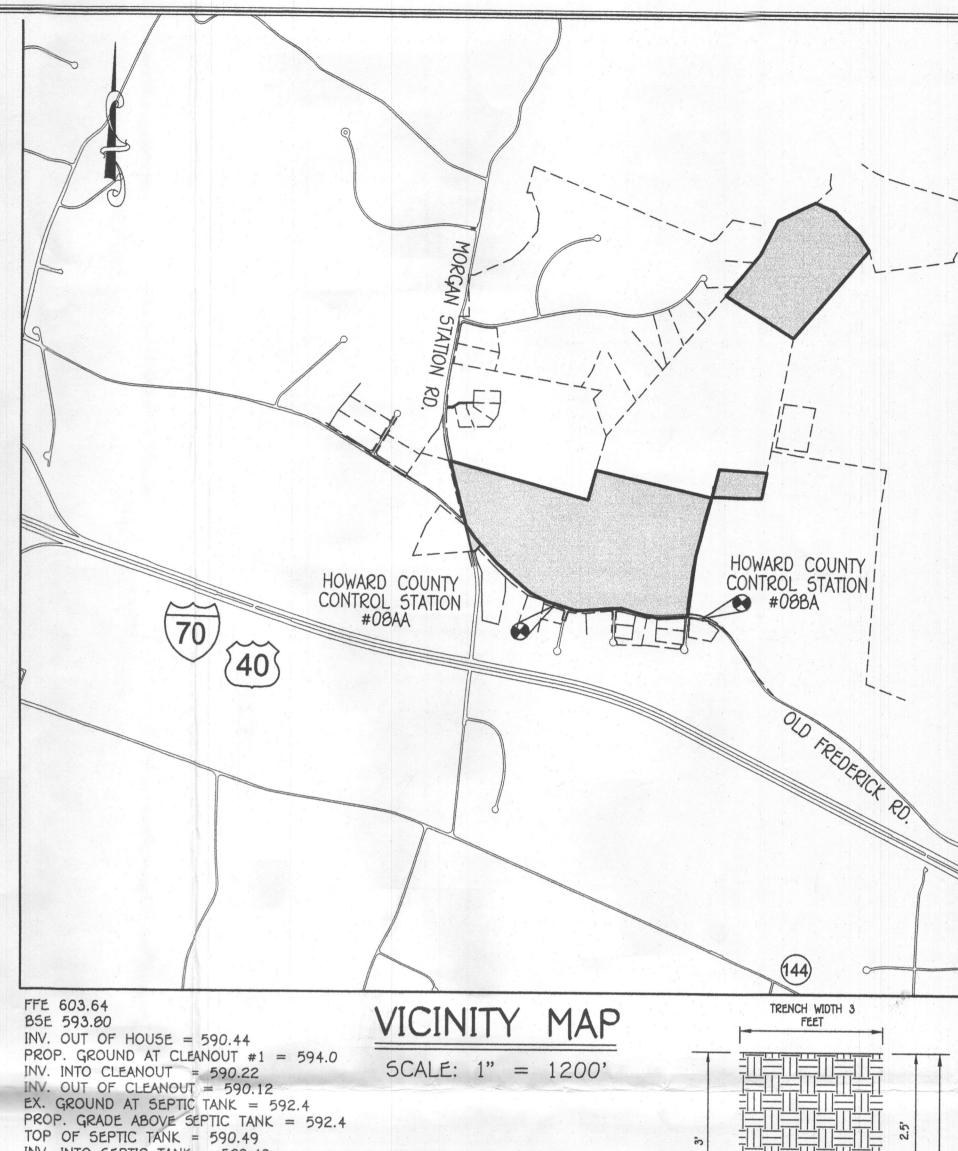
15212 TORINO WAY

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: AUGUST 13, 2018 SHEET 1 OF 1





INV. INTO SEPTIC TANK = 589.49 INV. OUT OF SEPTIC TANK = 589.24 EX. GROUND AT DISTRIBUTION BOX = 591.8 INV. INTO DISTRIBUTION BOX = 588.9 INV. OUT OF DISTRIBUTION BOX = 588.8 TRENCH DATA: TRENCH 1: EX. GROUND ABOVE = 591.8 INV. IN = 588.8 BOTTOM TRENCH = 584.8

TRENCH 2: EX. GROUND ABOVE = 589.9 INV. IN = 586.9Hank Oswald 8/20/18 BOTTOM TRENCH = 582.9

INITIAL TRENCH DETAIL

5CALE: 1"=2" 6 BEDROOMS LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD 2ND REPLACEMENT SYSTEM SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD

APPLICATION RATE = 0.8 EFFECTIVE SIDEWALL BEGINS AT 3 FEET TRENCH DEPTH = 8 FEET 5F OF DRAINFIELD = 900 GPD / 1.2 = 750 5F TRENCH WIDTH (W) = 3 FEET COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x4))=.416EFFECTIVE DEPTH (D) = 5 FEET SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF TRENCH LENGTH = 750 5F x .416 = 104.00 FEET COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+20)=(3+2)/(3+1+(2x5))=0.357TRENCH LENGTH = 312.5 SF x 0.357 = 144.00 FEET TRENCH SPACING = 2D+W = ((2*4) + 3) = 11' USE 11' (USE 2 TRENCHES AT 72.00 L.F.) TRENCH SPACING = 2D+W = ((2*5) + 3) = 13' USE 13' SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS

LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD SEPTIC SYSTEM INSTALLATION SITE PLAN

15212 TORINO WAY

4" PVC INV. INTO

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: AUGUST 13, 2018

SHEET 1 OF 1

ADDRESS CHART STREET ADDRESS LOT NUMBER 26 15215 TORINO WAY

TRENCH SPACING = 2D+W = ((2*4.5) + 3) = 12' USE 12'

INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR

APPLICATION RATE = 1.2

TRENCH DEPTH = 7 FEET TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (D) = 4 FEET

(USE 2 TRENCHES AT 52.00 L.F.)

APPLICATION RATE = 1.2

TRENCH DEPTH = 7.5 FEET

TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 4.5 FEET

(USE 2 TRENCHES AT 48.00 L.F.)

15T REPLACEMENT SYSTEM

EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET

SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH =

(W+2)/(W+1+2D)=(3+2)/(3+1+(2x4.5))=384TRENCH LENGTH = 750 SF x .384 = 96.00 FEET

EFFECTIVE SIDEWALL BEGINS AT 3 FEET

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

NV HOMES 9720 PATUXENT WOODS DRIVE COLUMBIA, MD 21046 410-379-5956