

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: 4-1-20 **ONSITE SEWAGE DISPOSAL SYSTEM** P 567361

APPROVAL DATE: 4-29-20 (ST) **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 1014 High Stepper Trail, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS LOT: 9 TAX ID: 03-601567

CONTRACTOR: SOUTH CARROLL BACKHOE EMAIL: sbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: NVR, INC. EMAIL: janastas@nvrinc.com

OWNER ADDRESS: 9720 PATUXENT WOODS DRIVE, COLUMBIA, MD 21046 PHONE: (410)379-5956

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: Babylon Vault

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

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>110</u>	INLET DEPTH: <u>2.6 and 2.0</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>6.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL THE SHC WITH AT LEAST ONE CLEANOUT.	

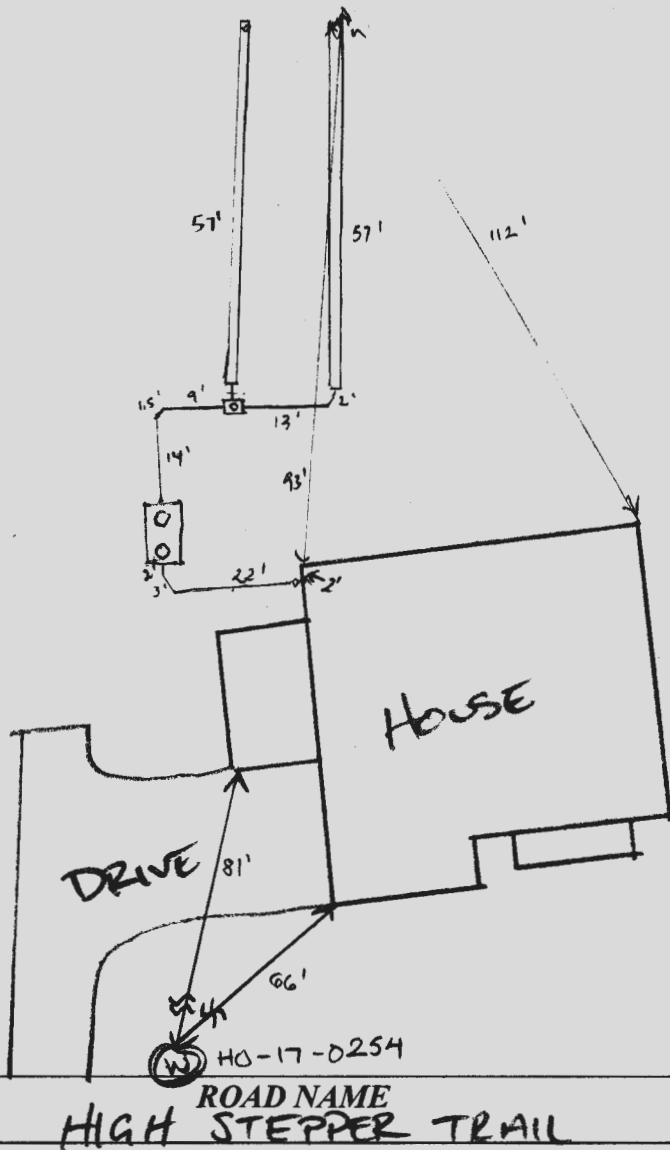
ISSUED BY: R BRICKER gr ISSUE DATE: 4/20/20 EXPIRATION DATE: 4-9-21

- 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 n.a.
- 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.**

279189279189

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	2.6'/20'	6'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 114'		
ABSORPTION AREA 342 sqft + sidewalk		
DISTRIBUTION BOX LEVEL yes		
DISTRIBUTION BOX BAFFLE yes		
DISTRIBUTION BOX PORT yes		

PRE-CONSTRUCTION:

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	1506 GAL
SEAM LOC	top
TANK LID DEPTH	2'
BAFFLES	front + back
BAFFLE FILTER	-
MANHOLE LOC	front + back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	3-6-2020

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	_____

04/27/2020 RESTATE UPPER CORNER SDA. (S)

04/28/2020 Trenches are staked on contour according to plan Upper corner of SDA staked properly (S)

INSTALLATION: 4/29/2020 Tank and d-box set. Trenches constructed according to plan. (S)

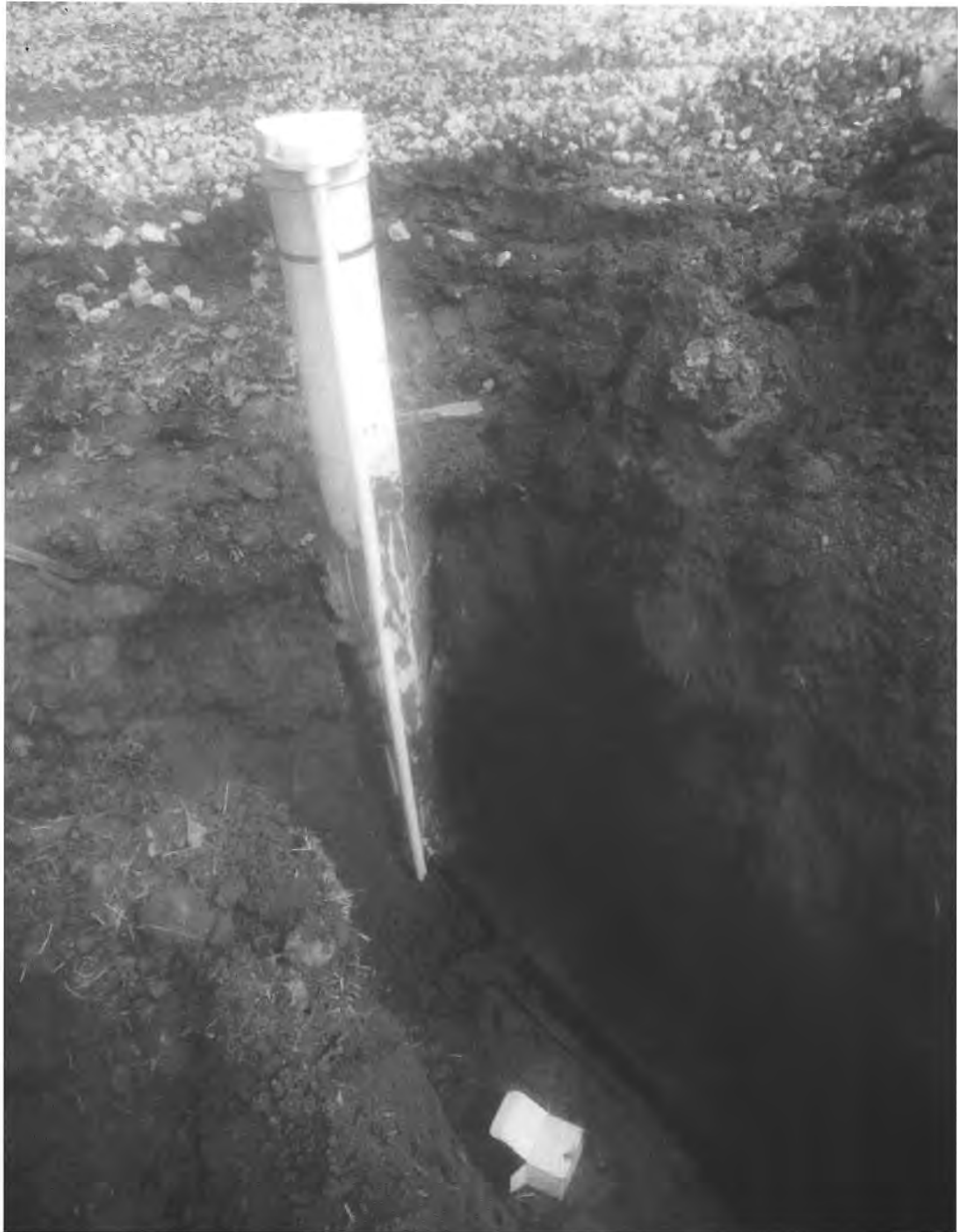
FINAL INSPECTOR

Susan Thomas

DATE OF APPROVAL

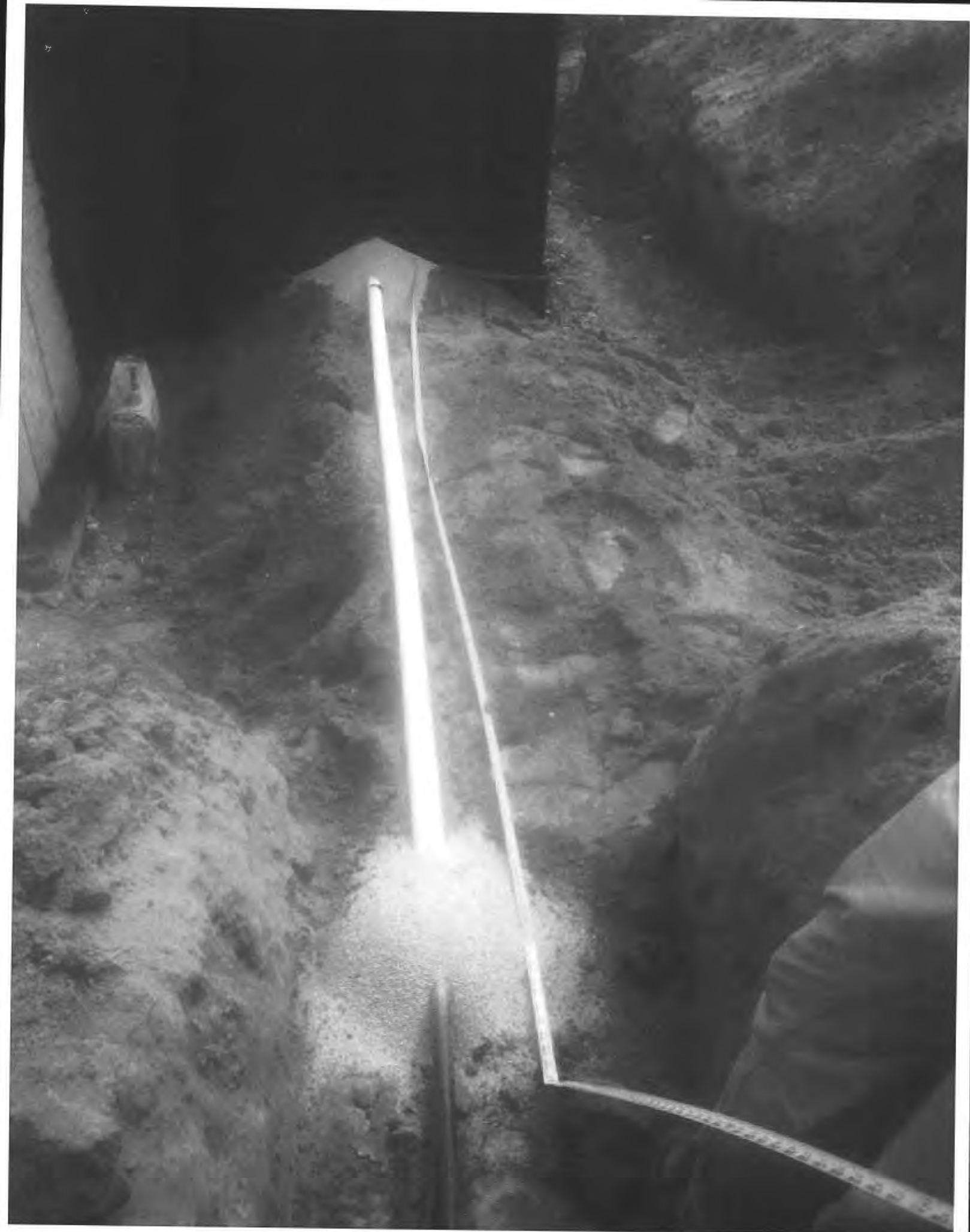
4/29/2020



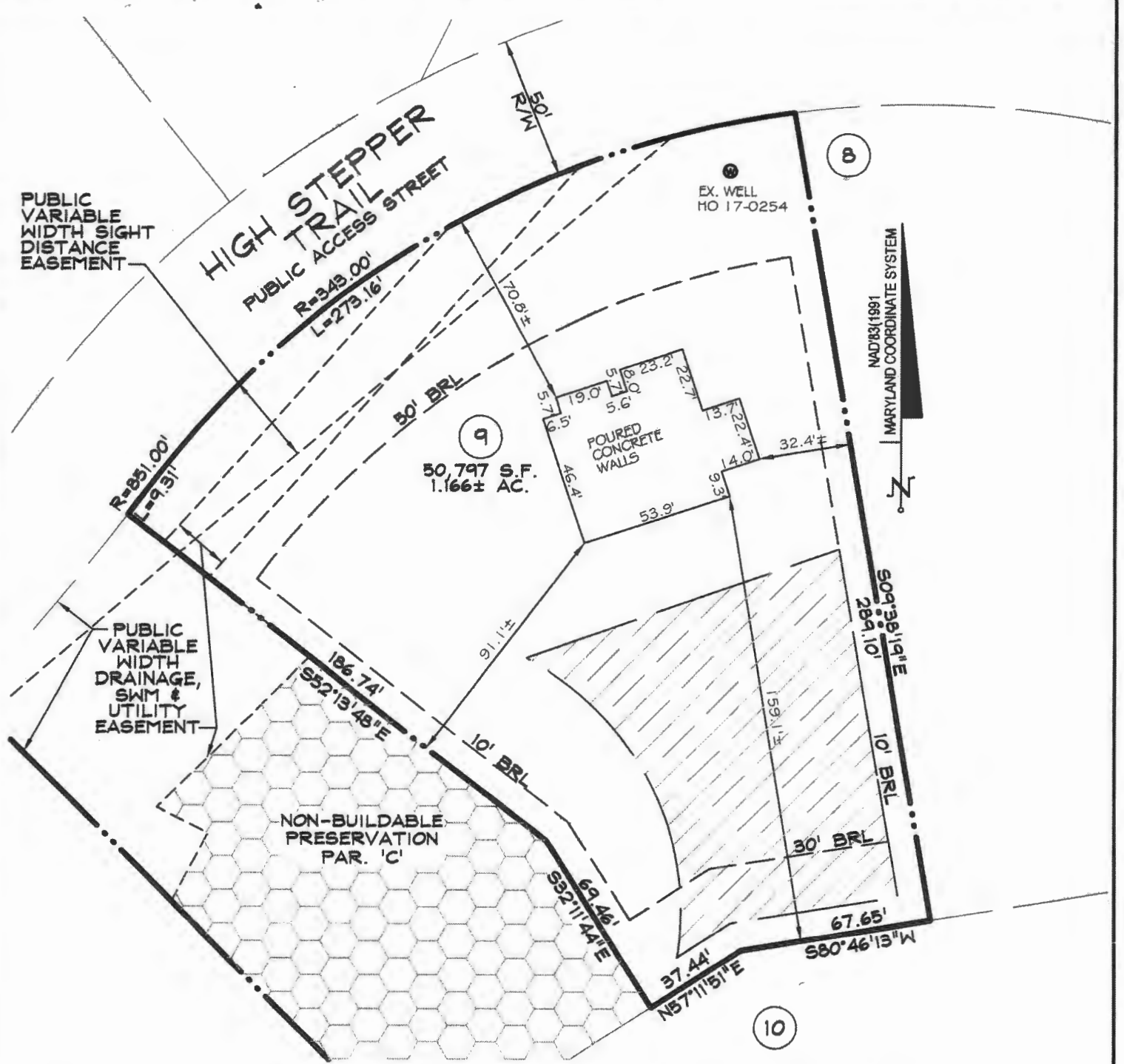












PUBLIC VARIABLE WIDTH SIGHT DISTANCE EASEMENT

HIGH STEPPER TRAIL
PUBLIC ACCESS STREET
R=343.00'
L=273.16'

EX. WELL
HO 17-0254

8

NAD83(1991)
MARYLAND COORDINATE SYSTEM

9
50.797 S.F.
1.166± AC.

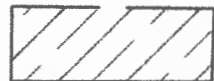
POURED CONCRETE WALLS

PUBLIC VARIABLE WIDTH DRAINAGE, SWM & UTILITY EASEMENT

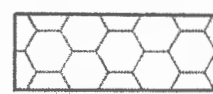
NON-BUILDABLE PRESERVATION PAR. 'C'

10

BRL - BUILDING RESTRICTION LINE



PRIVATE SEWAGE DISPOSAL AREA



FOREST CONSERVATION EASEMENT

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE. I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 11039, EXPIRATION DATE 09/16/20.

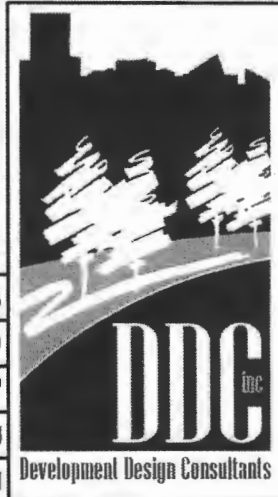
[Signature] 3/24/20



TOP OF WALL = 530.6

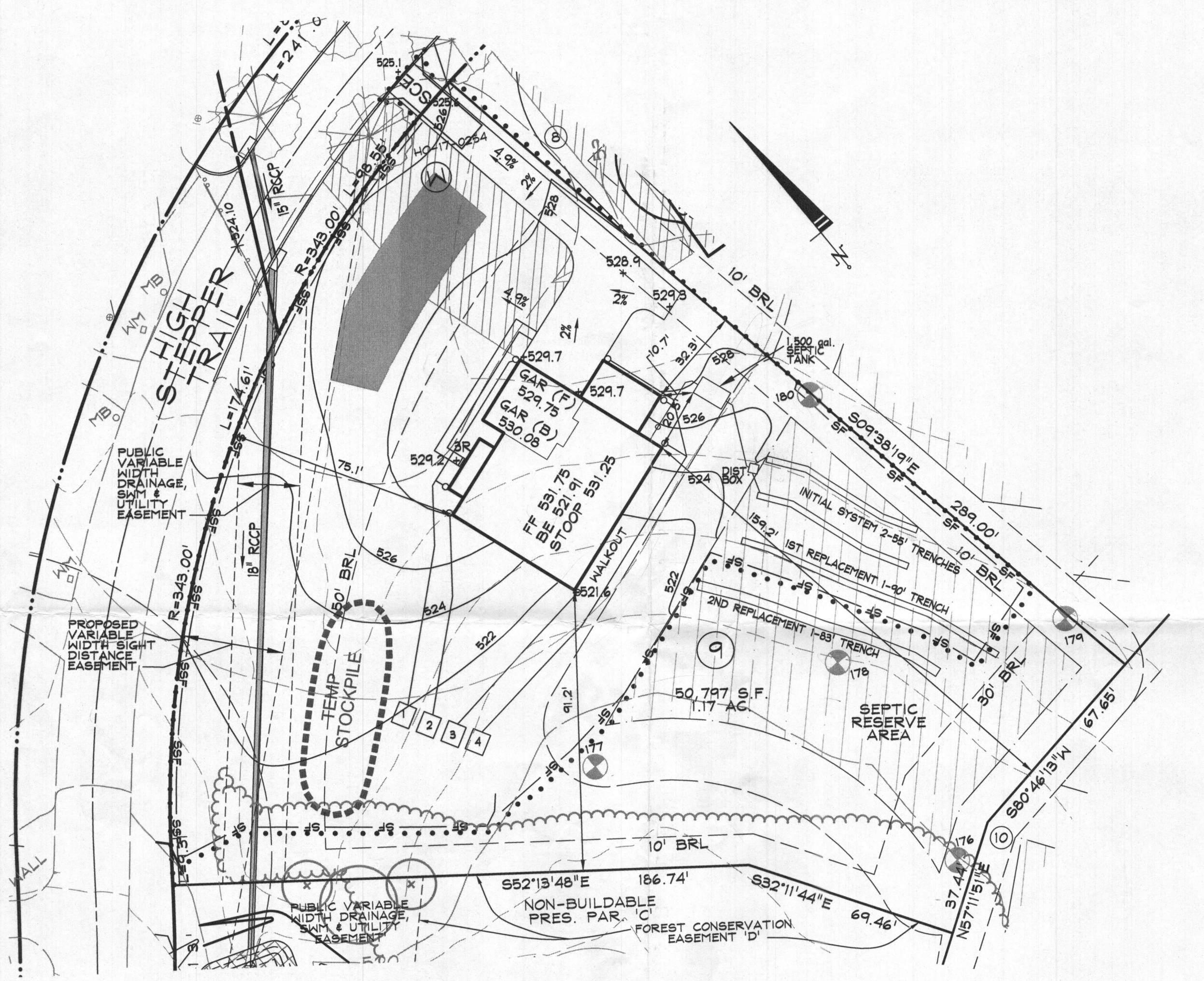
WALL CHECK
1014 HIGH STEPPER TRAIL
LOT 9
WALKER MEADOWS
PLAT NO. 24976
3rd ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#:	12064.3
DATE:	03/23/2020
SCALE:	1"=50'
DRN. BY:	CWJ
CHK. BY:	JLM



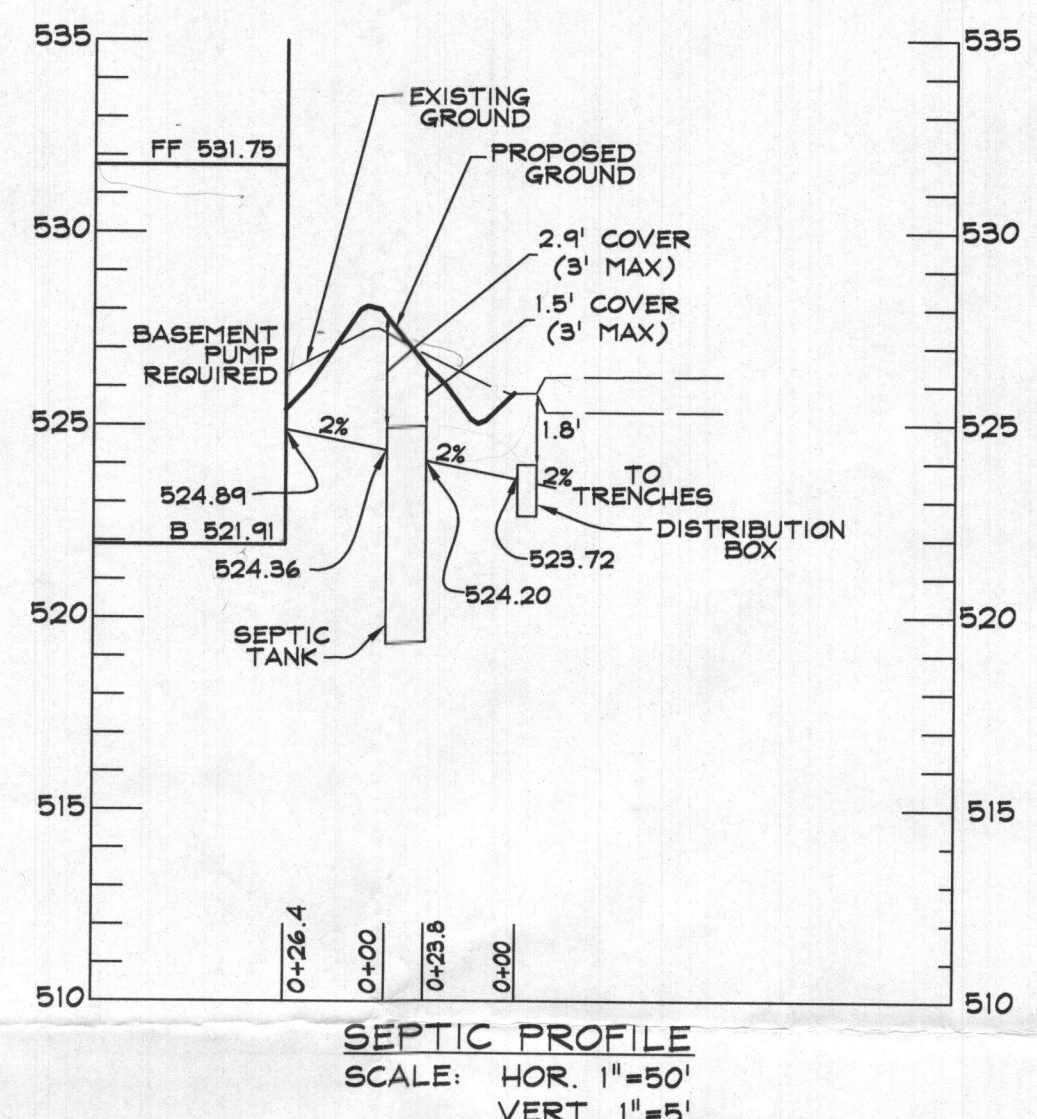
Planners
Surveyors
Engineers
Landscape Architects

192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us



STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY A WIDE GRASS SHOULDER AND DRYWELLS.

GRAVITY SEWER SERVICE LIMITED TO FIRST FLOOR



LOT 9 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	2.6'	3'	6'
INITIAL SYSTEM TRENCH B	2'	3'	6'
1ST REPLACEMENT TRENCH A	2'	2'	6'
2ND REPLACEMENT TRENCH A	2'	3'	6'

LOT 9 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	526.2	523.6	520.2
INITIAL SYSTEM TRENCH B	525.3	523.3	519.3
1ST REPLACEMENT TRENCH A	524.1	522.1	518.1
2ND REPLACEMENT TRENCH A	522.7	520.7	516.7

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 EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL (TAG #HO-17-0254) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- 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.

TRENCH LENGTH AND SPACING CALCULATIONS

TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)

INITIAL SYSTEM
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 2' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE
500 SF / 2' WIDTH = 250 LF x 0.44 = 110 LF MIN. TRENCH

1ST REPLACEMENT SYSTEM
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 2' WIDE TRENCH W/ 48" OF GRAVEL BELOW PIPE
500 SF / 2' WIDTH = 250 LF x 0.36 = 90 LF MIN. TRENCH

2ND REPLACEMENT SYSTEM
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE
500 SF / 3' WIDTH = 166.7 LF x 0.50 = 83.3 LF MIN. TRENCH

10' MIN SPACING BETWEEN TRENCH EDGES

2 - 55' LONG TRENCH FOR INITIAL SYSTEM
1 - 90' LONG TRENCH FOR FIRST REPLACEMENT SYSTEM
1 - 84' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANBERGER AND LANE DATED JUNE 2014. TOPOGRAPHY SHOWN PER AERIAL PHOTOGRAMMETRY AND FIELD RUN TOPOGRAPHY DATED 5/2014. ADJACENT WELL AND SEPTIC INFORMATION APPROXIMATED FROM ADJACENT PLATS. HEALTH DEPARTMENT RECORDS AND FIELD OBSERVATION ON JUNE 25, 2012. EX. ENVIRONMENTAL INFORMATION SHOWN PER FIELD INVESTIGATION BY ECO-SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.

Approved Septic System Plan
Howard County Health Department
1500-gallon Septic Tank
To Gravity Drainfield
for 4-bedroom SFD
R. Demario
Signature Date 2/10/2020

DDC Inc.
Development Design Consultants

Planners
Surveyors
Engineers
Landscape Architects

192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

OWNER:
ESC WALKER MEADOWS, L.C.
5074 DORSEY HALL DR., SUITE 205
ELLCOTT CITY, MD 21042
410-726-3021

DEVELOPER:
N/V HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-3391

SITE ADDRESS:
SIE RIVER ROAD
SYKESVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #6687)
LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M
1014 HIGH STEPPER TRAIL

**LOT 9 ON-SITE SEWAGE
DISPOSAL SYSTEM DESIGN PLAN**

DRAWING LEGEND

•••••	LIMIT OF DISTURBANCE		SEWAGE DISPOSAL AREA
— SF — SF	PROPOSED SILT FENCE		DRY WELL
— SSF — SSF	PROPOSED SUPER SILT FENCE		WIDE GRASS SHOULDER
	STABILIZED EXISTENCE		TEMPORARY STOCKPILE
	TRANSFORMER		
	PERCOLATION TEST HOLE - PASS		
	WELL BOX WITH EXISTING WELL		

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 21998 EXPIRATION DATE: 1/25/20

2/3/20
DATE

WILLIAM R. DEMARIO
PROFESSIONAL ENGINEER NO. 21998

5TH COUNCIL DISTRICT
3RD ELECTION DISTRICT
HOWARD COUNTY, MD

REVISIONS

NO.	DESCRIPTION OF CHANGES	DRN	REV	DATE
CO. FILE #:	F-17-045	DES. BY:	LJC	
TAX ACC. #:	03-601568	DRN. BY:	LJC	
TAX MAP:	9	CHK. BY:	PGC	
BLOCK / GRID:	6	DATE:	2/3/20	
PARCEL #:	66	DDC JOB#:	12064.3	
ZONE / USE:	RR-DEO	SHEET NUMBER:		
DWG. SCALE:	1" = 30'		1 of 1	