

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 So7361-A

APPROVAL DATE: 04/27/2020 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 1022 High Stepper Trail, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS LOT: 11 TAX ID: 03-601569

CONTRACTOR: SOUTH CARROLL BACKHOE EMAIL: scbackhoe@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>104</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</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.	

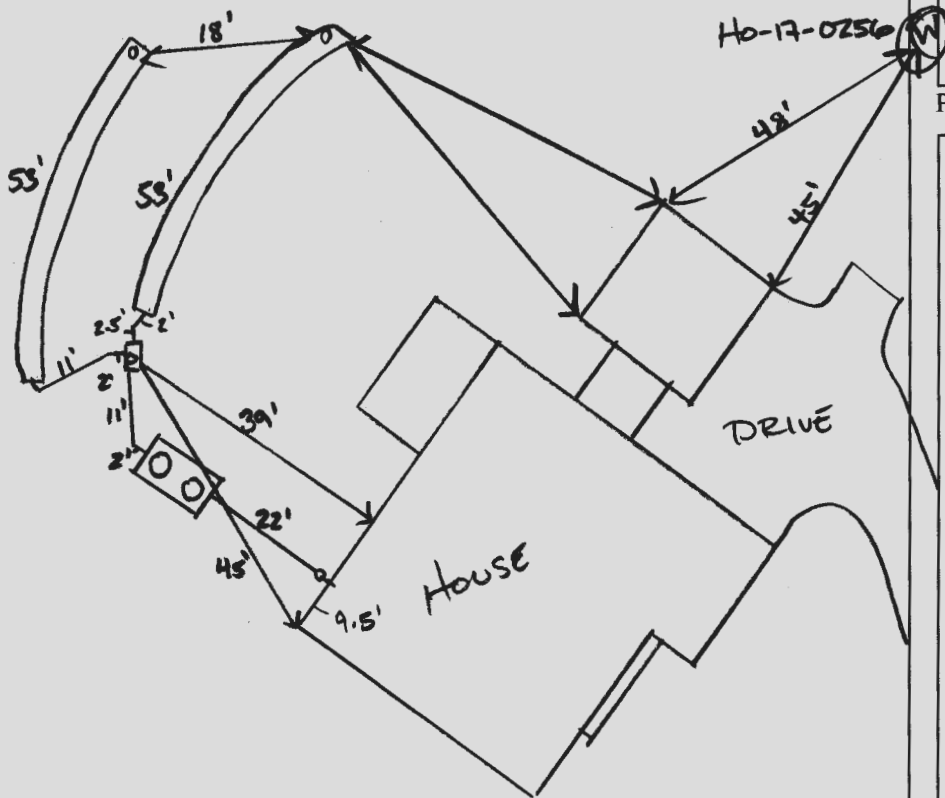
ISSUED BY: R BRICKER ISSUE DATE: 04/01/2020 EXPIRATION DATE: 4-1-21

- 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
3'	3'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		106'
ABSORPTION AREA		318' + SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

PRE-CONSTRUCTION:

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	< 3'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	03/06/2020

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	

ROAD NAME
HIGH STEPPER TRAIL

04/23/2020 LAID OUT TRENCHES. (+)

INSTALLATION: 04/23/2020 SHC, SEWER LINE, TANK AND INLET BAFFLE INSTALLED (+)
TANK HAS NO COVER, TO BE RAISED. (+) 04/27/2020 D BOX LEVELED
W/ SPEED LEVELS. TRENCHES COMPLETE OR TO BACKFILL. (+)

FINAL INSPECTOR

DATE OF APPROVAL

04/27/2020

6

HIGH STEPPER TRAIL PUBLIC ACCESS STREET

8

PUBLIC VARIABLE WIDTH
DRAINAGE, SWM &
UTILITY EASEMENT

24' PRIVATE USE-IN-COMMON
ACCESS EASEMENT FOR LOT
7, 11 & NBPP 'E'

*Wall
Check
OK 4-8-20
DD*

7

10

20'

12

EX. WELL
HO 17-0256

58,721 S.F.
1.35 AC.

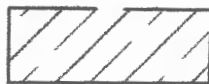
BUILDABLE
PRESERVATION
PARCEL 'A'

NON-BUILDABLE
PRESERVATION PARCEL 'E'

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.

BRL - BUILDING RESTRICTION LINE



PRIVATE SEWAGE
DISPOSAL AREA



PUBLIC VARIABLE WIDTH
DRAINAGE, SWM &
UTILITY EASEMENT

TOP OF WALL = 519.5



put 3/24/20

WALL CHECK
1022 HIGH STEPPER TRAIL
LOT 11
WALKER MEADOWS
PLAT NO. 24976

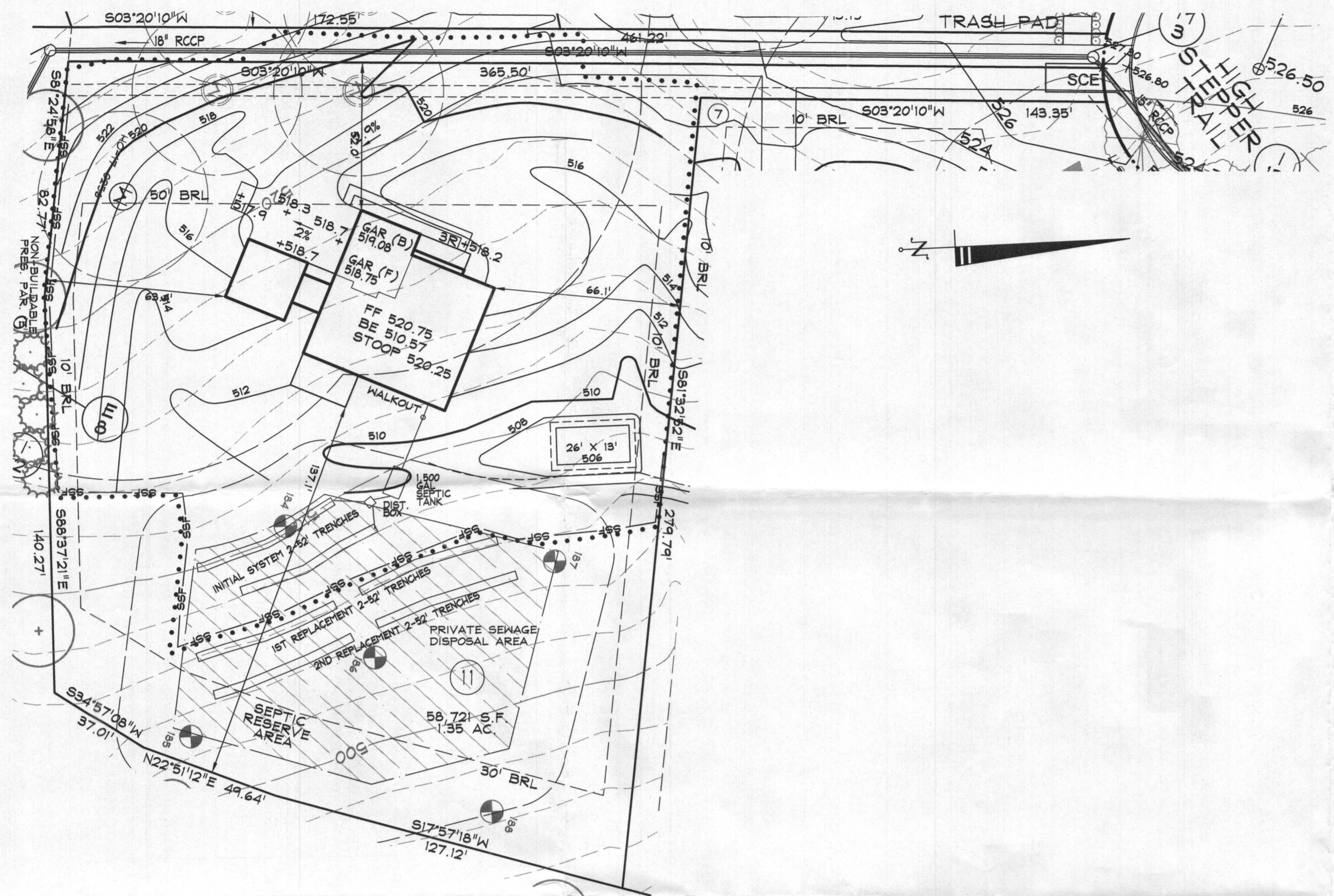
3rd ELECTION DISTRICT HOWARD COUNTY, MD

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



LOT 11 PLAN VIEW
SCALE: 1" = 30'

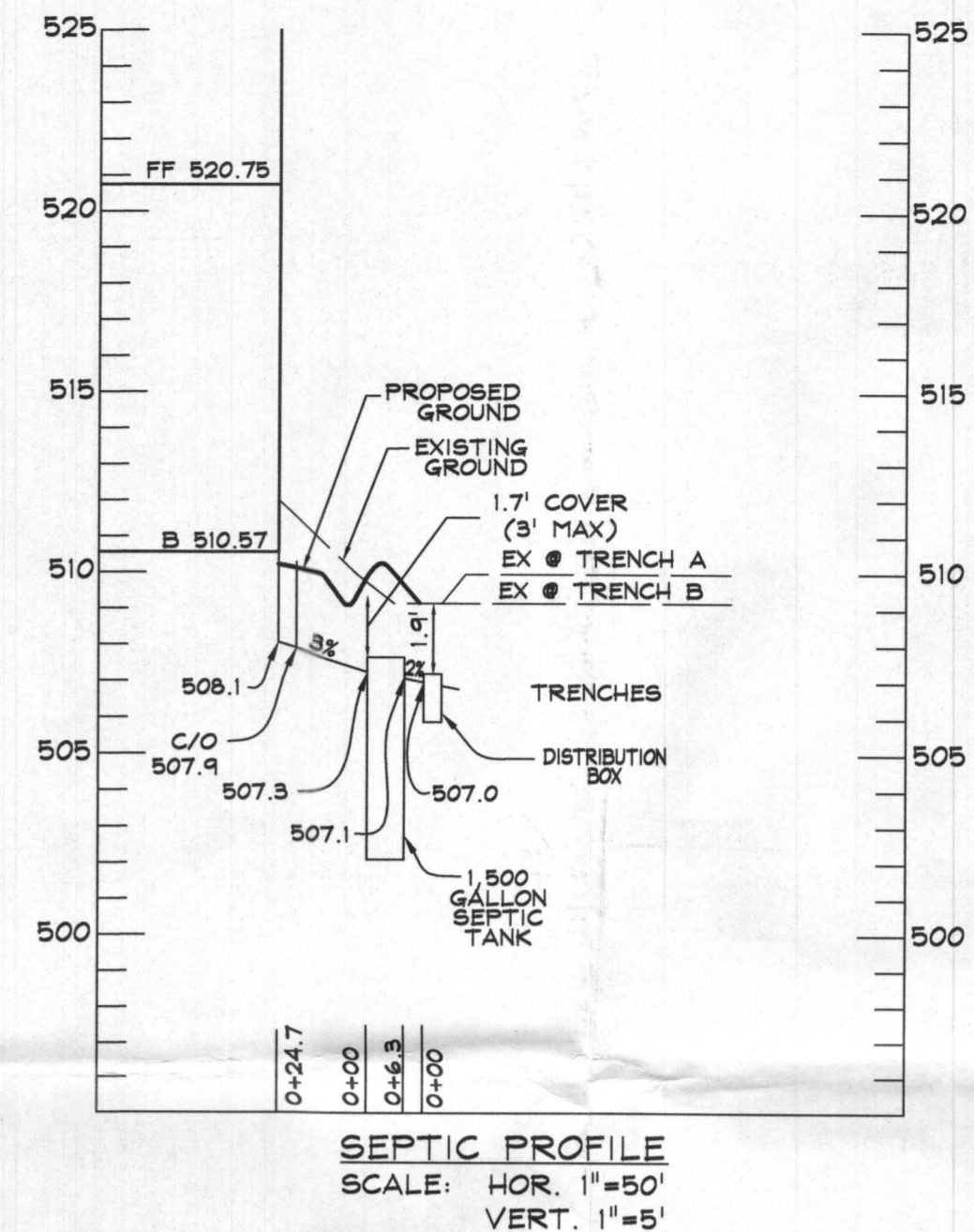
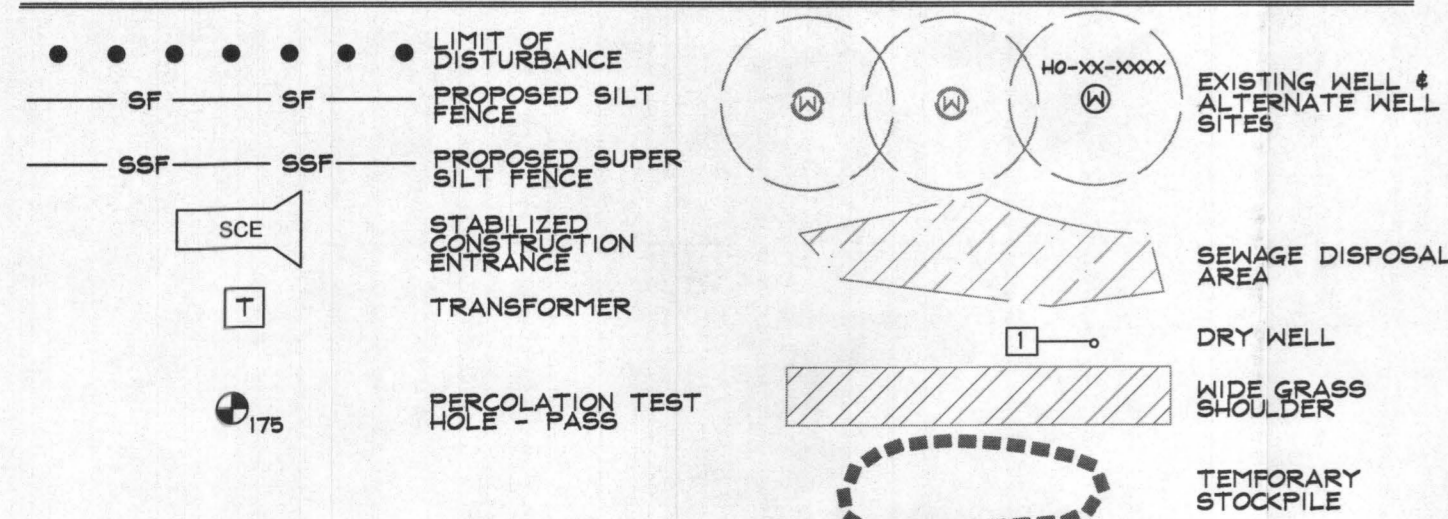
NO GRADING IN SEWAGE DISPOSAL AREA.
LOD SHOWN IS FOR THE INSTALLATION OF
THE INITIAL SEPTIC SYSTEM ONLY.

STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY ON-LOT
MICRO-BIO-RETENTION (11-6).

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 COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL (TAG #HO-17-0256) 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.

DRAWING LEGEND



SEPTIC PROFILE
SCALE: HOR. 1"=50'
VERT. 1"=5'

TRENCH LENGTH AND SPACING CALCULATIONS

TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)

INITIAL SYSTEM, 1ST & 2ND REPLACEMENT SYSTEMS
750 GPD / 1.2 GPD/SF (APP. RATE) = 625 SF *236" to 43"*
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE
625 SF / 3' WIDTH = 208 LF x 0.50' = 104 LF MIN. TRENCH

10' MIN SPACING BETWEEN TRENCH EDGES

- 2 - 52' LONG TRENCHES FOR INITIAL SYSTEM
- 2 - 52' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
- 2 - 52' LONG TRENCHES FOR SECOND REPLACEMENT SYSTEM

DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANABERGER AND LANE DATED JUNE 2004
TOPOGRAPHY SHOWN PER AERIAL PHOTOGRAMMETRY AND FIELD RUN TOPOGRAPHY DATED 5/2014
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.

LOT 13 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	3'	3'	6'
INITIAL SYSTEM TRENCH B	2.4'	3'	6'
1ST REPLACEMENT TRENCH A	2.4	3'	6'
1ST REPLACEMENT TRENCH B	2.4	3'	6'
2ND REPLACEMENT TRENCH A	2.4'	4'	7'
2ND REPLACEMENT TRENCH B	2.4'	4'	7'

LOT 13 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	510.0	507.0	504.0
INITIAL SYSTEM TRENCH B	508.2	505.8	502.2
1ST REPLACEMENT TRENCH A	506.0	503.8	500.0
1ST REPLACEMENT TRENCH B	506.0	503.8	500.0
2ND REPLACEMENT TRENCH A	504.3	501.9	497.3
2ND REPLACEMENT TRENCH B	504.3	501.9	497.3

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

DDC
Development Design Consultants

OWNER:
ESC WALKER MEADOWS, L.C.
5074 DORSEY HALL DR., SUITE 205
ELLICOTT CITY, MD 21042
410-720-3021

DEVELOPER:
NV HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-378-3381

SITE ADDRESS:
SE RIVER ROAD
SYKESVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #64937)
LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-H
1022 HIGH STEPPER TRAIL
**LOT 11 ONSITE SEWAGE
DISPOSAL SYSTEM DESIGN PLAN**

Approved Septic System Plan
Howard County Health Department
1500-gallon septic tank
to Gravity Drainfield
for 5-Bedroom residence
R. Binkley
Signature
2/12/2020
Date

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. 21998 EXPIRATION DATE 6/6/20

2/3/20
DATE

WILLIAM R. DEMARIO
PROFESSIONAL ENGINEER NO. 21998

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:	WRD	
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	