



Howard County
Health Department

Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
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www.hchealth.org
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Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 10-6-20 **ONSITE SEWAGE DISPOSAL SYSTEM** P 372811
 APPROVAL DATE: 11/19/2020 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 1026 HIGH STEPPER TRAIL, SYKESVILLE, MD 21784
 SUBDIVISION: WALKER MEADOWS LOT: 7 TAX ID: 03-601565
 CONTRACTOR: South Carroll Backhoe EMAIL: _____
 CONTRACTOR ADDRESS: 4410 Selen Bottom Rd Westminster MD 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.

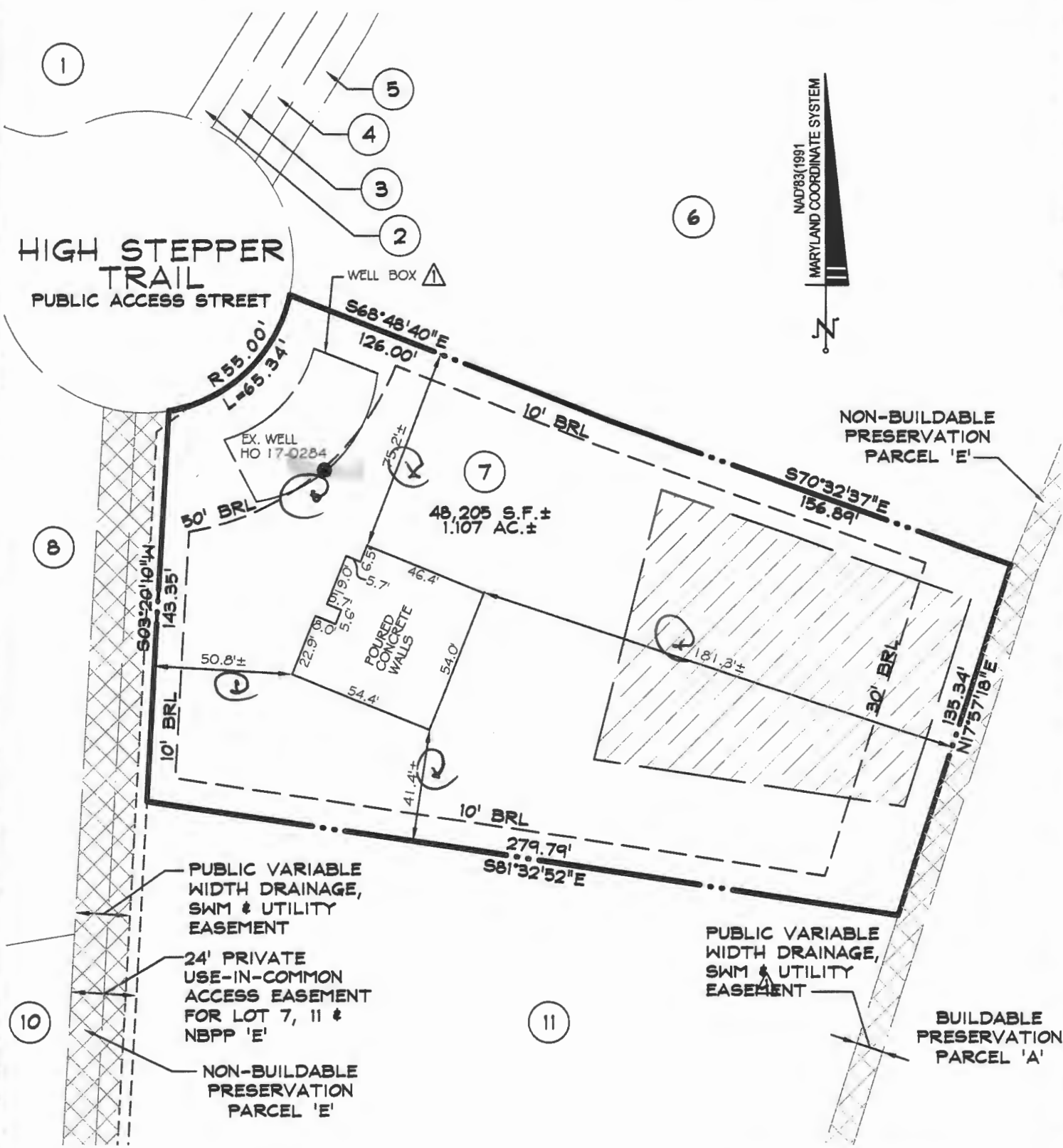
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>94</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6.0</u> <u>6.5</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: 10-30-20 EXPIRATION DATE: 10-6-21

- 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.**



PUBLIC VARIABLE WIDTH DRAINAGE, SWM & UTILITY EASEMENT

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

NON-BUILDABLE PRESERVATION PARCEL 'E'

PUBLIC VARIABLE WIDTH DRAINAGE, SWM & UTILITY EASEMENT

BUILDABLE PRESERVATION PARCEL 'A'

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 09/16/22.

APPROVED
10/30/2020



[Signature] 9-30-20

- BRL - BUILDING RESTRICTION LINE
- PRIVATE SEWAGE DISPOSAL AREA
- PUBLIC VARIABLE WIDTH DRAINAGE, SWM & UTILITY EASEMENT

TOP OF WALL = 520.5 REVISION TO ADD WELL BOX 10/5/20

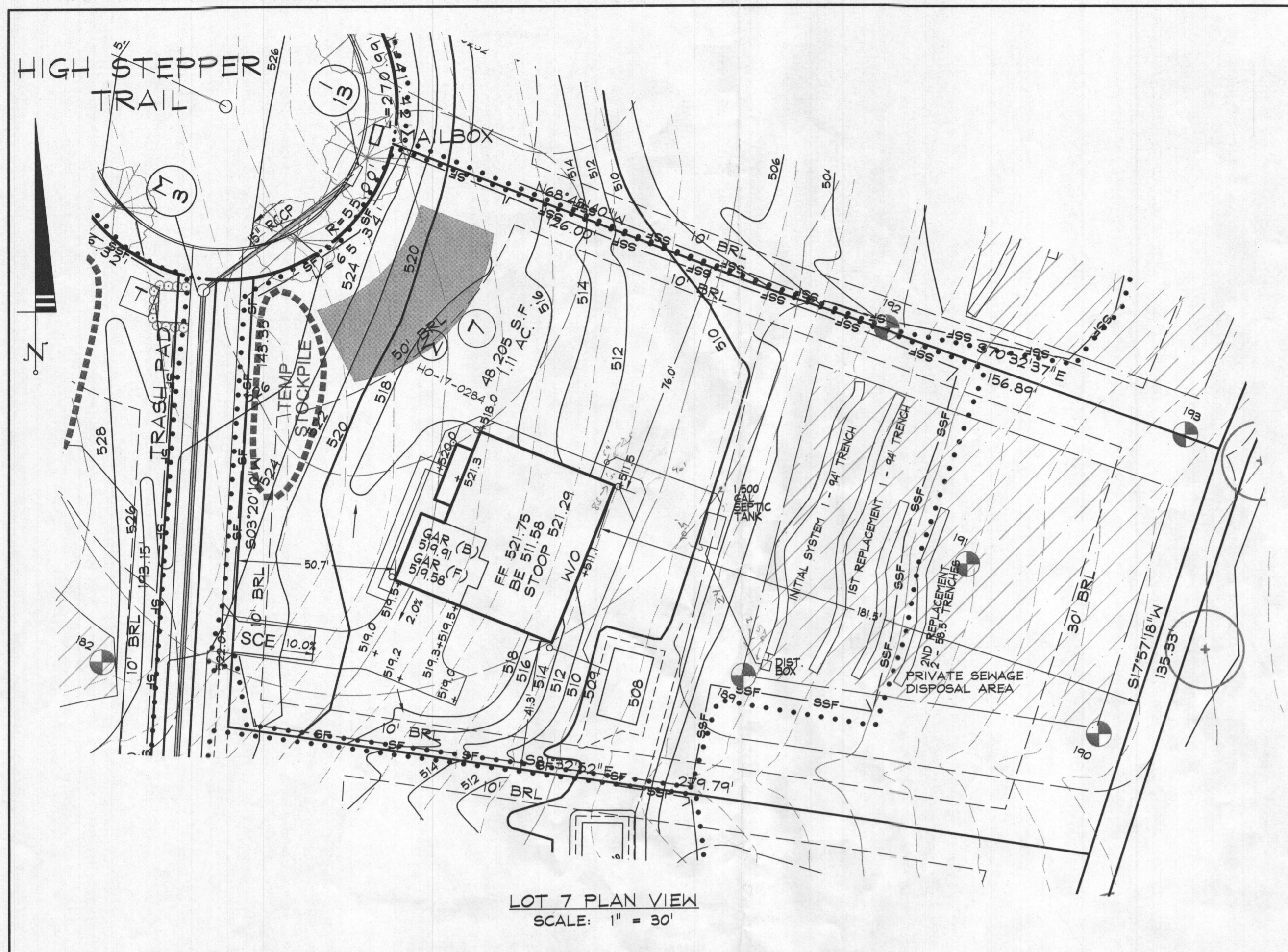
WALL CHECK
1026 HIGH STEPPER TRAIL
LOT 7
WALKER MEADOWS
PLAT NO. 24976
3rd ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#:	12064.3
DATE:	09/30/2020
SCALE:	1"=50'
DRN. BY:	CWJ
CHK. BY:	JLM



Planners
Surveyors
Engineers
Landscape Architects

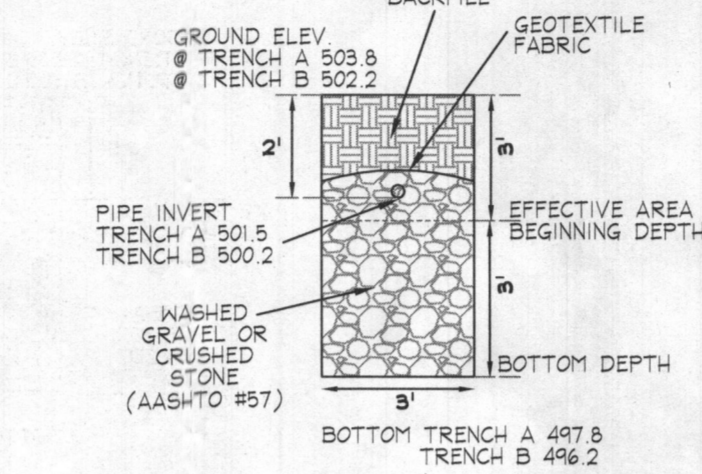
192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us



LOT 7 PLAN VIEW
SCALE: 1" = 30'

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

DRAWING LEGEND	
•••••	LIMIT OF DISTURBANCE
— SF — SF —	PROPOSED SILT FENCE
— SSF — SSF —	PROPOSED SUPER SILT FENCE
SCE	STABILIZED EROSION CONTROL
T	TRANSFORMER
175	PERCOLATION TEST HOLE - PASS
⊗	WELL BOX WITH EXISTING WELL
▨	SEWAGE DISPOSAL AREA
□	DRY WELL
▨	WIDE GRASS SHOULDER
⊖	TEMPORARY STOCKPILE



TRENCH DETAIL INITIAL SYSTEM
N.T.S.

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-17-0284) 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.

TRENCH LENGTH AND SPACING CALCULATIONS

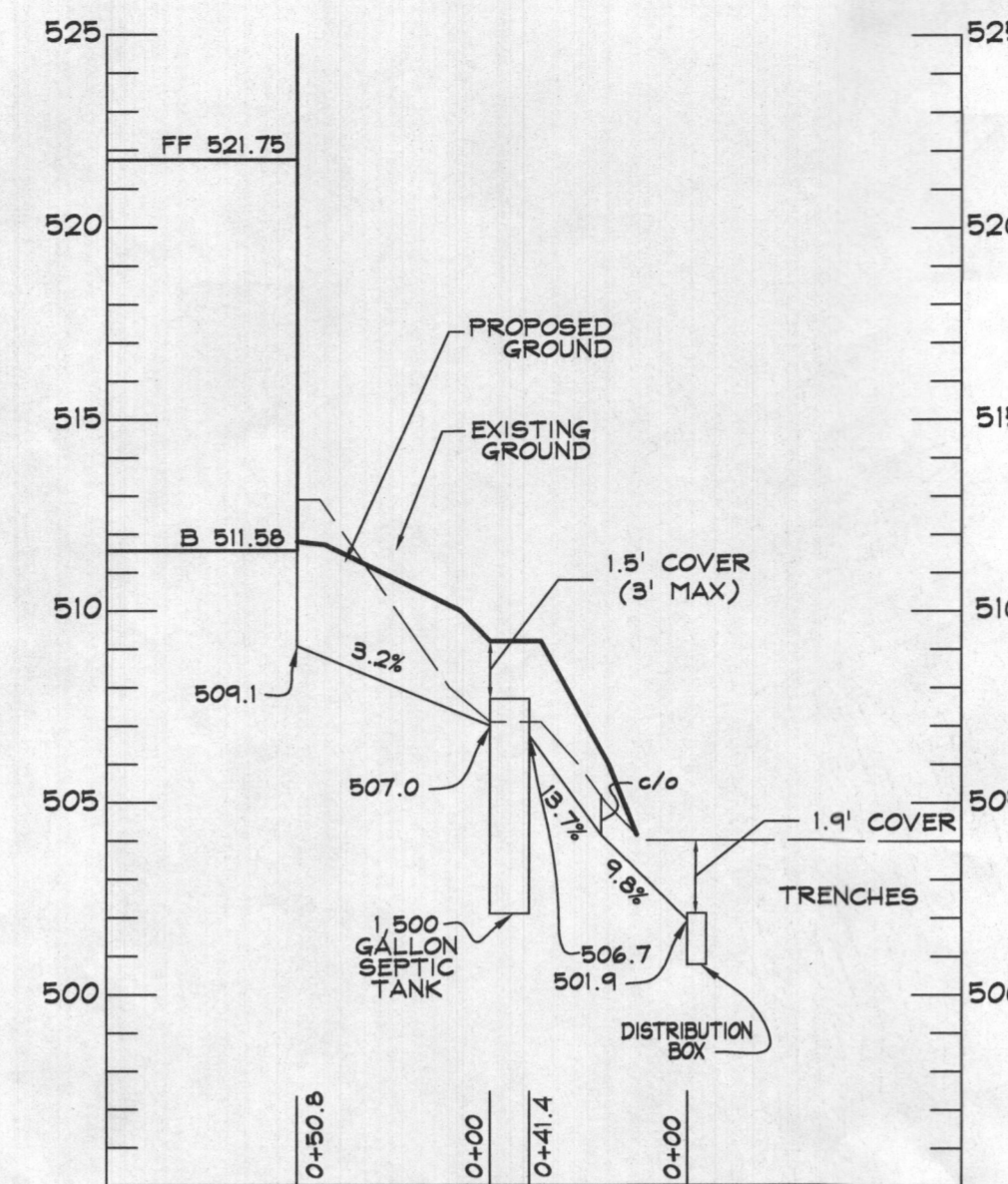
TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)

INITIAL SYSTEM & 1ST REPLACEMENT SYSTEM
750 GPD / 1.2 GPD/SF (APP. RATE) = 625 SF
USE 3' WIDE TRENCH W/ 42" OF GRAVEL BELOW PIPE
625 SF / 3' WIDTH = 208.33 LF x 0.45 = 94 LF MIN. TRENCH

2ND REPLACEMENT SYSTEM
750 GPD / 1.2 GPD/SF (APP. RATE) = 625 SF
USE 3' WIDE TRENCH W/ 30" OF GRAVEL BELOW PIPE
625 SF / 3' WIDTH = 208.33 LF x 0.56 = 117 LF MIN. TRENCH

10' MIN SPACING BETWEEN TRENCH EDGES

- 1 - 94' LONG TRENCHES FOR INITIAL SYSTEM
- 1 - 94' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
- 2 - 58.5' LONG TRENCHES FOR SECOND REPLACEMENT SYSTEM



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

LOT 7 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	2'	3'	6.5'
1ST REPLACEMENT TRENCH A	2'	4'	7.5'
2ND REPLACEMENT TRENCH A & B	2'	5.5'	8'

LOT 7 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	503.8	501.8	497.3
1ST REPLACEMENT TRENCH A	502.2	500.2	494.7
2ND REPLACEMENT TRENCH A	500.6	498.6	492.6
2ND REPLACEMENT TRENCH B	499.2	497.2	491.2

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 FROM SOIL PER FIELD INVESTIGATION BY ECO-SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.

DDC
Development Design Consultants

Planners
Surveyors
Engineers
Landscape Architects

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

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

DEVELOPER:
NV HOME,
8720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-3391

SITE ADDRESS:
SE RIVER ROAD
SYKESVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #6937)
LOTS 1-14 1/4 BUILDABLE PRESERVATION PARCEL A 1 NON-BUILDABLE
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-11
1026 HIGH STEPPER TRAIL

LOT 7 ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

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:	WRD	
BLOCK / GRID:	6	DATE:	8/24/20	
PARCEL #:	66	DDC JOB#:	12064.3	
ZONE / USE:	RR-DEO	SHEET NUMBER:		
DWG. SCALE:	1" = 30'			1 of 1

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: 6/6/22

8/24/20
DATE

WILLIAM R. DEMARIO
PROFESSIONAL ENGINEER NO. 21998

Approved Septic System Plan
Howard County Health Department
1500 gal septic tank
to Gravity Distribution
for 5-Bedroom SF
R. B. B. 8/27/2020
Signature Date