



Howard County
Health Department

Maura J. Rossman, M.D., Health Officer

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

RECEIPT DATE: 5/12/2020 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 567391

APPROVAL DATE: _____ **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1032 STEPPING PLACE, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS

LOT: 21

TAX ID: 03-601579

CONTRACTOR: SOUTH CARROLL BACKHOE, INC.

EMAIL: _____

CONTRACTOR ADDRESS: 4410 SALEM BOTTOM ROAD, WESTMINSTER, MD 21157

PHONE: (410)875-4197

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): 2000

TANK MANUFACTURER: Babylon Vault

PUMP MODEL: n.a.

PUMP SIZE n.a.

PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>168</u>	INLET DEPTH: <u>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

ISSUE DATE: 5/29/2020

EXPIRATION DATE: 5/12/2021

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

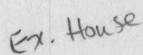
☐ ELECTRICAL PERMIT ISSUED E n.a.

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.

$$1'' = 30'$$
**ROAD NAME**

DISTRIBUTION BOX PORT yes

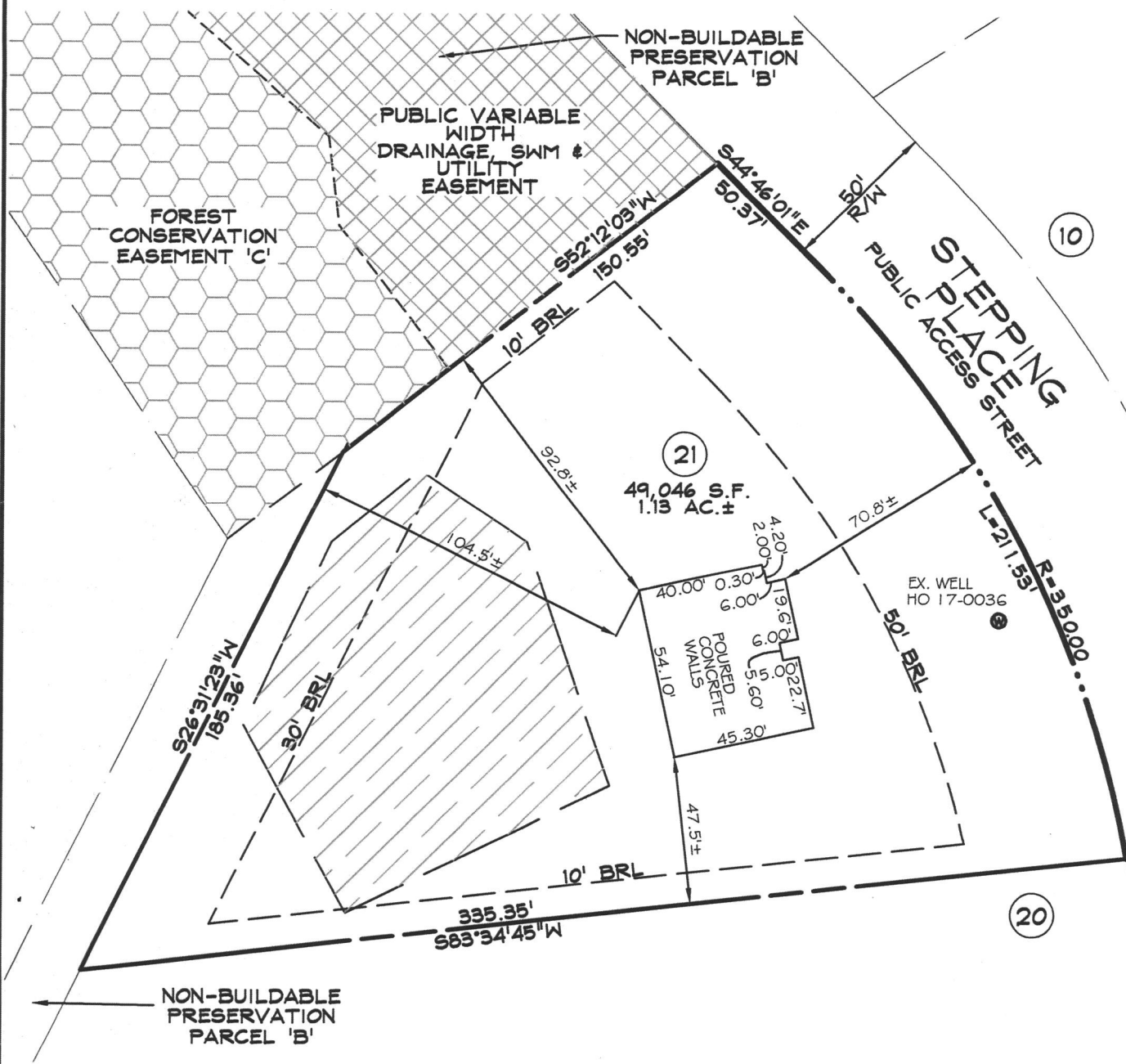
DATE ON LID 3-23-20

DATE ON LID _____

INSTALLATION: 6/3/20 Tank set, d-box set and one trench complete. Reinspect for
SHE. (S) 6/4/20 - site insp. contractor onsite most work complete but SHC not done
yet, d-box levelers good, stone looks good, geotextile fabric in place, observation pipes in place,
ok to backfill. (P)




FINAL INSPECTOR

DATE OF APPROVAL _____



BRL - BUILDING RESTRICTION LINE

WALL CHECK OK
5/20/20 (ST)

-  PRIVATE SEWAGE DISPOSAL AREA
-  FOREST CONSERVATION EASEMENT
-  PUBLIC VARIABLE WIDTH DRAINAGE, SWM & UTILITY 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.



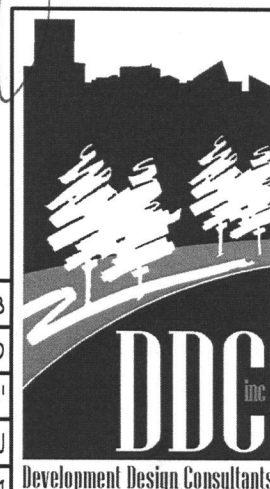
[Signature] 4/13/20

TOP OF WALL = 539.0

WALL CHECK
1032 STEPPING PLACE
LOT 21
WALKER MEADOWS
PLAT NO. 24977

3rd ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#:	12064.3
DATE:	04/13/2020
SCALE:	1"=50'
DRN. BY:	CWJ
CHK. BY:	JLM

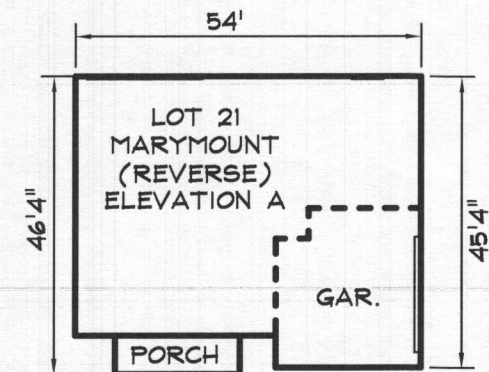
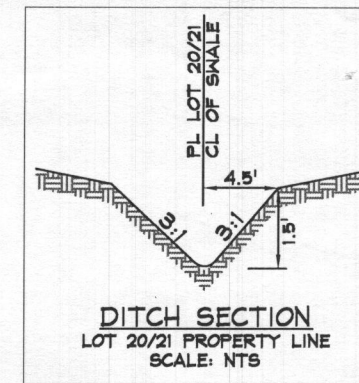


Planners
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Landscape Architects

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410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

DRAWING LEGEND

- • • • • LIMIT OF DISTURBANCE
- SF — SF — PROPOSED SILT FENCE
- SSF — SSF — PROPOSED SUPER SILT FENCE
- SCE STABILIZED CONSTRUCTION ENTRANCE
- T TRANSFORMER
- W WELL BOX WITH EXISTING WELL
- SEPTIC RESERVE AREA
- DRY WELL
- WIDE GRASS SHOULDER
- TEMP STOCKPILE
- TEMPORARY STOCKPILE



LOT 21 BUILDING PERMIT PLOT PLAN

WALKER MEADOWS
LOT 21

1032 STEPPING PLACE

PLAT #24974-24979

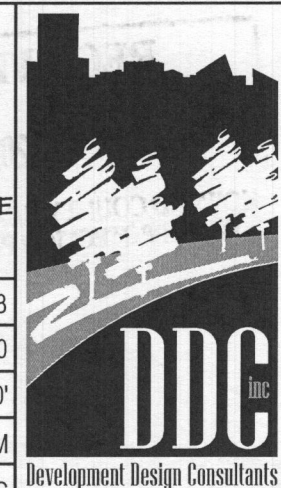
DDC JOB#: 12064.3

DATE: 2/27/20

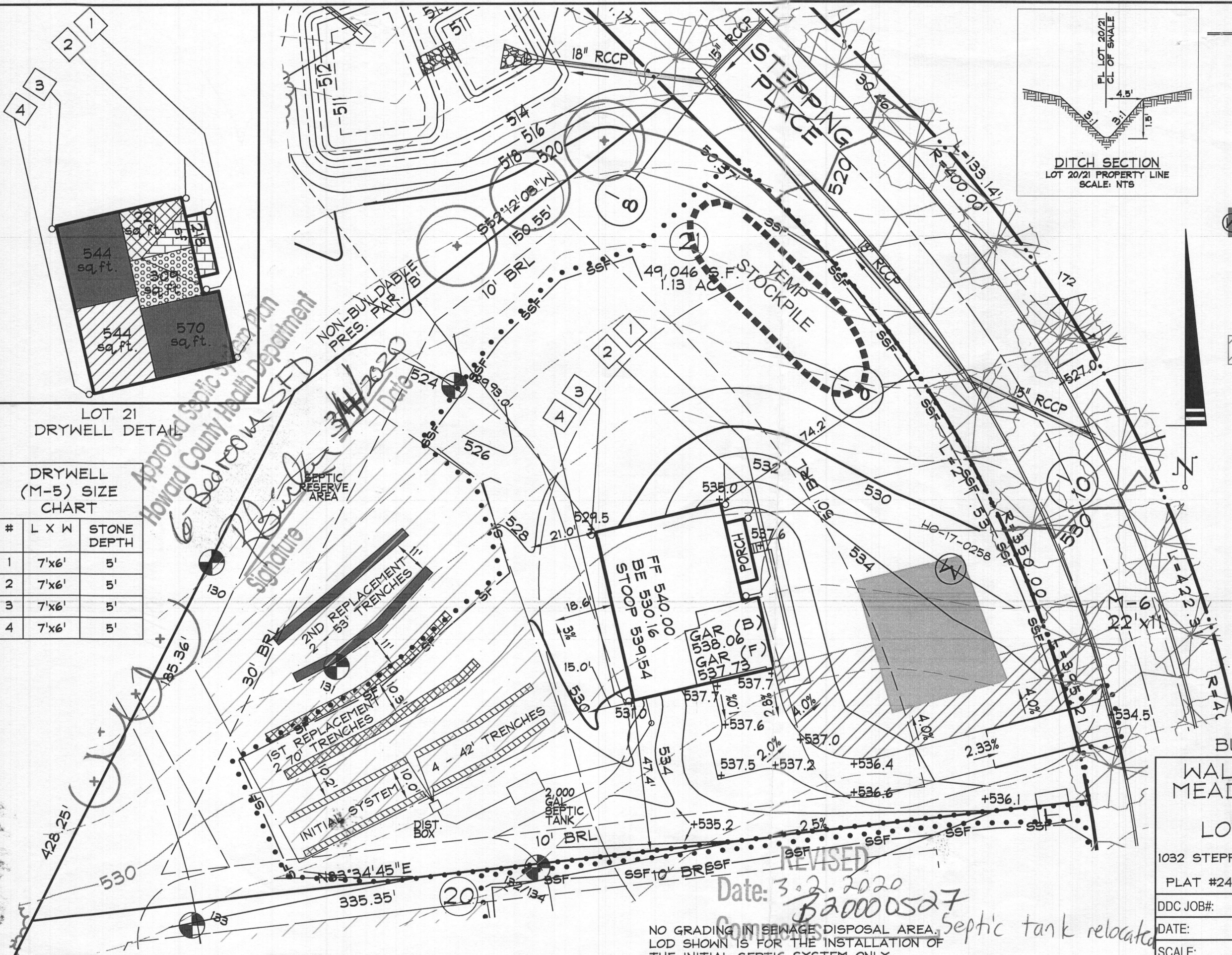
SCALE: 1" = 30'

CHK. BY: JLM

DRN. BY: LJC



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LOT 21 DRYWELL DETAIL

#	L X W	STONE DEPTH
1	7'x6'	5'
2	7'x6'	5'
3	7'x6'	5'
4	7'x6'	5'

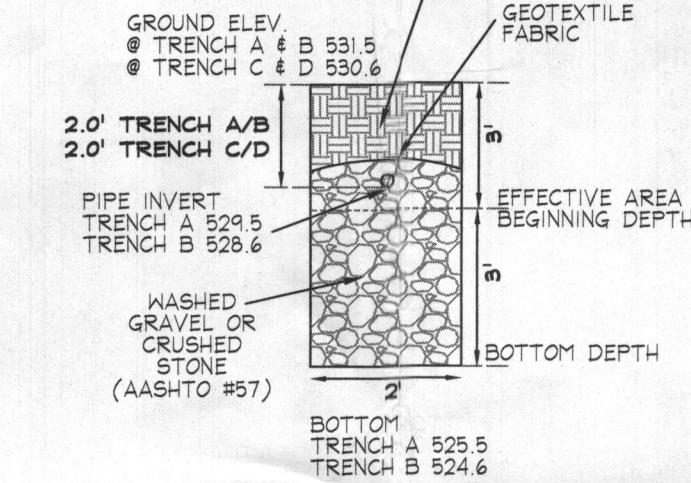
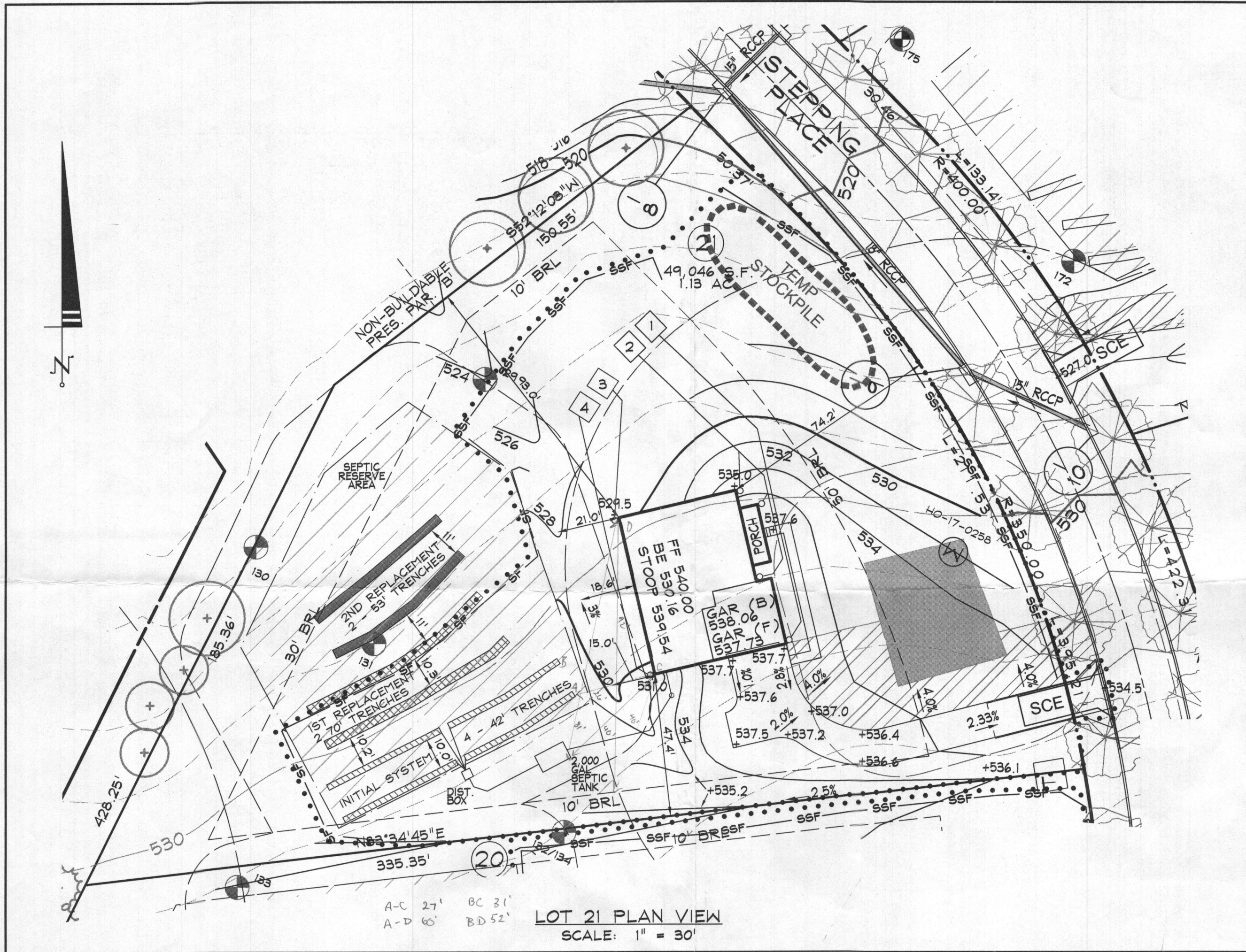
STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY ON-LOT DRYWELLS AND A WIDE GRASS SHOULDER.

PUMP REQUIRED FOR BASEMENT SEWER SERVICE

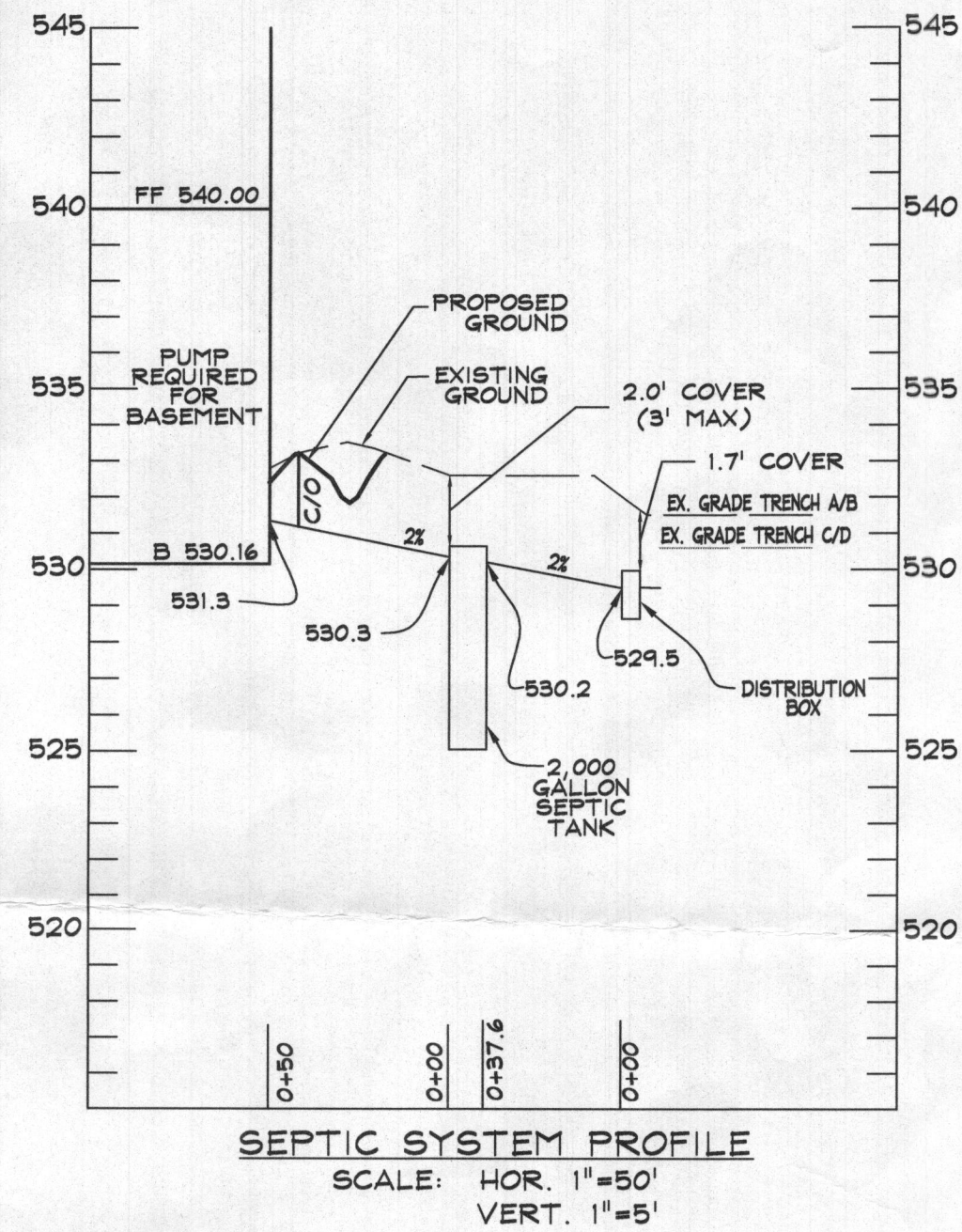
NO GRADING IN SEWAGE DISPOSAL AREA. LOD SHOWN IS FOR THE INSTALLATION OF THE INITIAL SEPTIC SYSTEM ONLY.

THE FRONT DOOR FOR LOT 21 FACES EAST

REVISED
Date: 3.2.2020
B20000527
Septic tank relocated



TRENCH DETAIL INITIAL SYSTEM
N.T.S.



LOT 21 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A & B	2'	3'	6'
INITIAL SYSTEM TRENCH C & D	2'	3'	6'
1ST REPLACEMENT TRENCH A	2'	3.5'	6'
1ST REPLACEMENT TRENCH B	2'	3.5'	6'
2ND REPLACEMENT TRENCH A	2'	2'	6'
2ND REPLACEMENT TRENCH B	2'	2'	6'

LOT 21 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A & B	531.5	529.5	525.5
INITIAL SYSTEM TRENCH C & D	530.6	528.6	524.6
1ST REPLACEMENT TRENCH A	529.8	527.8	523.8
1ST REPLACEMENT TRENCH B	528.8	526.8	522.8
2ND REPLACEMENT TRENCH A	527.8	525.8	521.8
2ND REPLACEMENT TRENCH B	526.8	524.8	520.8

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-17-0258) 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 (6 BDRM x 150 GPD/BDRM = 900 GPD)

INITIAL SYSTEM
900 GPD / 1.2 GPD/SF (APP. RATE) = 750 SF
USE 2' WIDE TRENCH W/ 36" OF EFFECTIVE ABSORPTION DEPTH
750 SF / 2' WIDTH = 375 LF x 0.44 = 165 LF MIN. TRENCH
- 10' MIN SPACING BETWEEN TRENCH EDGES

1ST REPLACEMENT SYSTEM
900 GPD / 1.2 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 30" OF EFFECTIVE ABSORPTION DEPTH
750 SF / 3' WIDTH = 250 LF x 0.56 = 140 LF MIN. TRENCH
- 10' MIN SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM
900 GPD / 1.2 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 48" OF EFFECTIVE ABSORPTION DEPTH
750 SF / 3' WIDTH = 250 LF x 0.42 = 105 LF MIN. TRENCH
- 10' MIN SPACING BETWEEN TRENCH EDGES

4 - 42' LONG TRENCHES FOR INITIAL SYSTEM
2 - 70' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
2 - 53' LONG TRENCHES FOR SECOND REPLACEMENT SYSTEM

218

DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANABERGER 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.

DDC INC.
Development Design Consultants

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

DEVELOPER:
NV HOMES
8720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-375-3381

SITE ADDRESS:
S/E 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-M
1082 STEPPING PLACE

LOT 21 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: 1/26/20

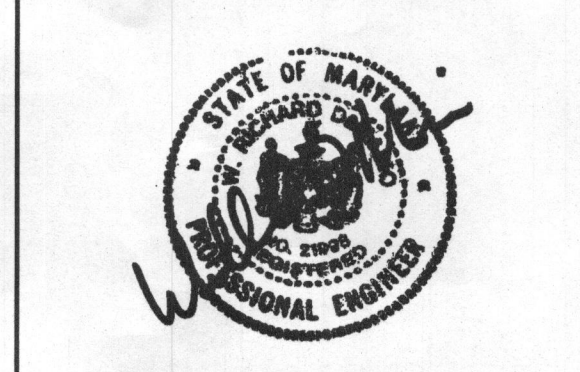
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ZONE / USE: RR-DEO SHEET NUMBER:

DWG. SCALE: 1" = 30' 1 of 1

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LICENSE NO.: 21998 EXPIRATION DATE: 6/6/20

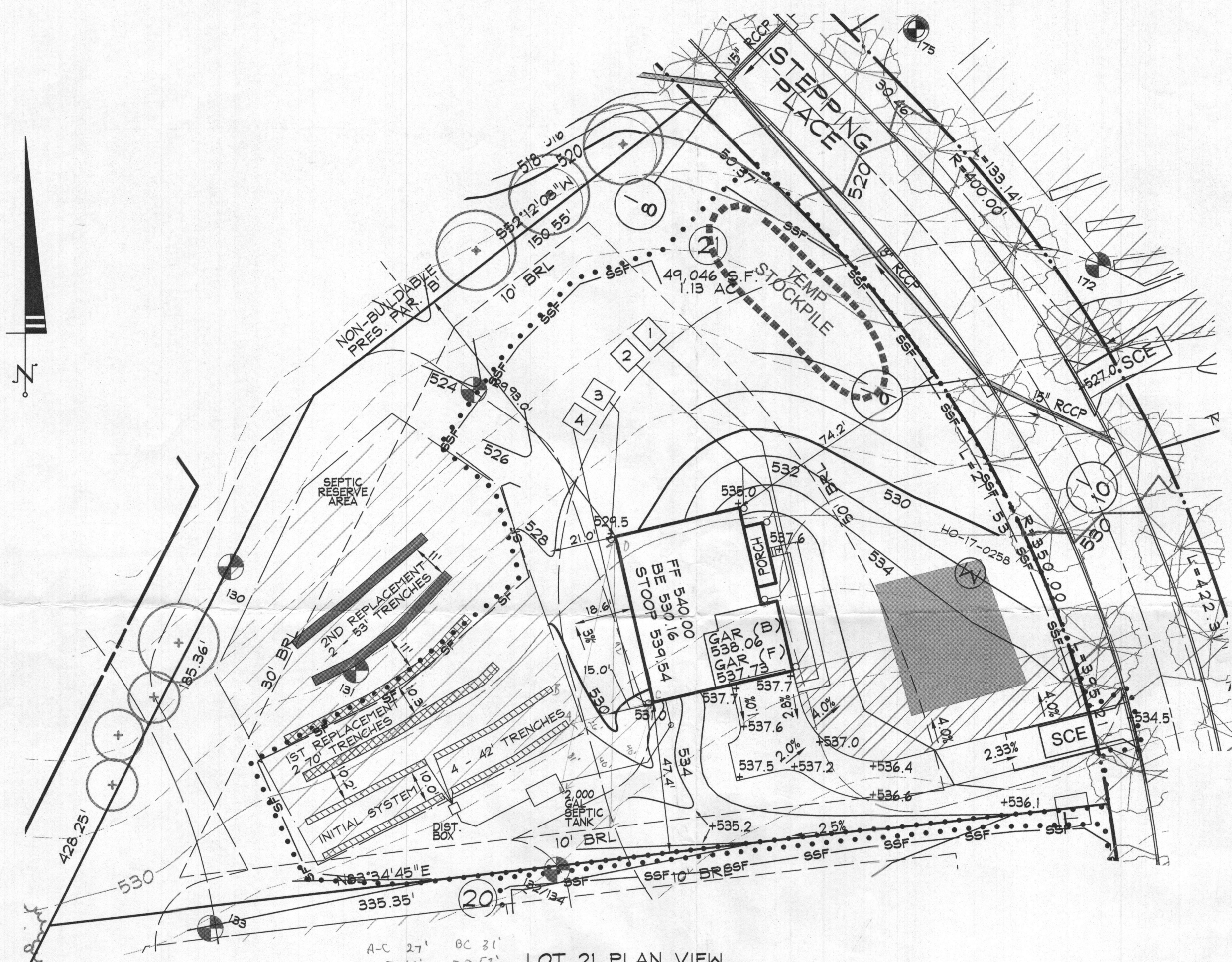
2/26/20
DATE



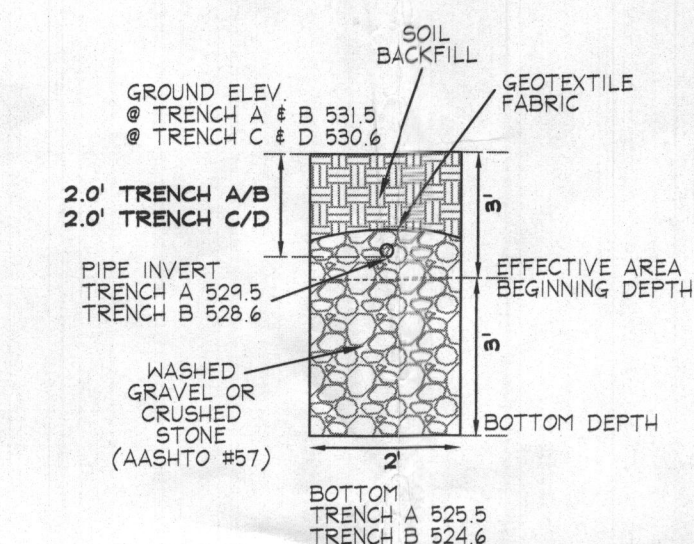
WILLIAM R. DEMARIO
PROFESSIONAL ENGINEER NO. 21998

DRAWING LEGEND

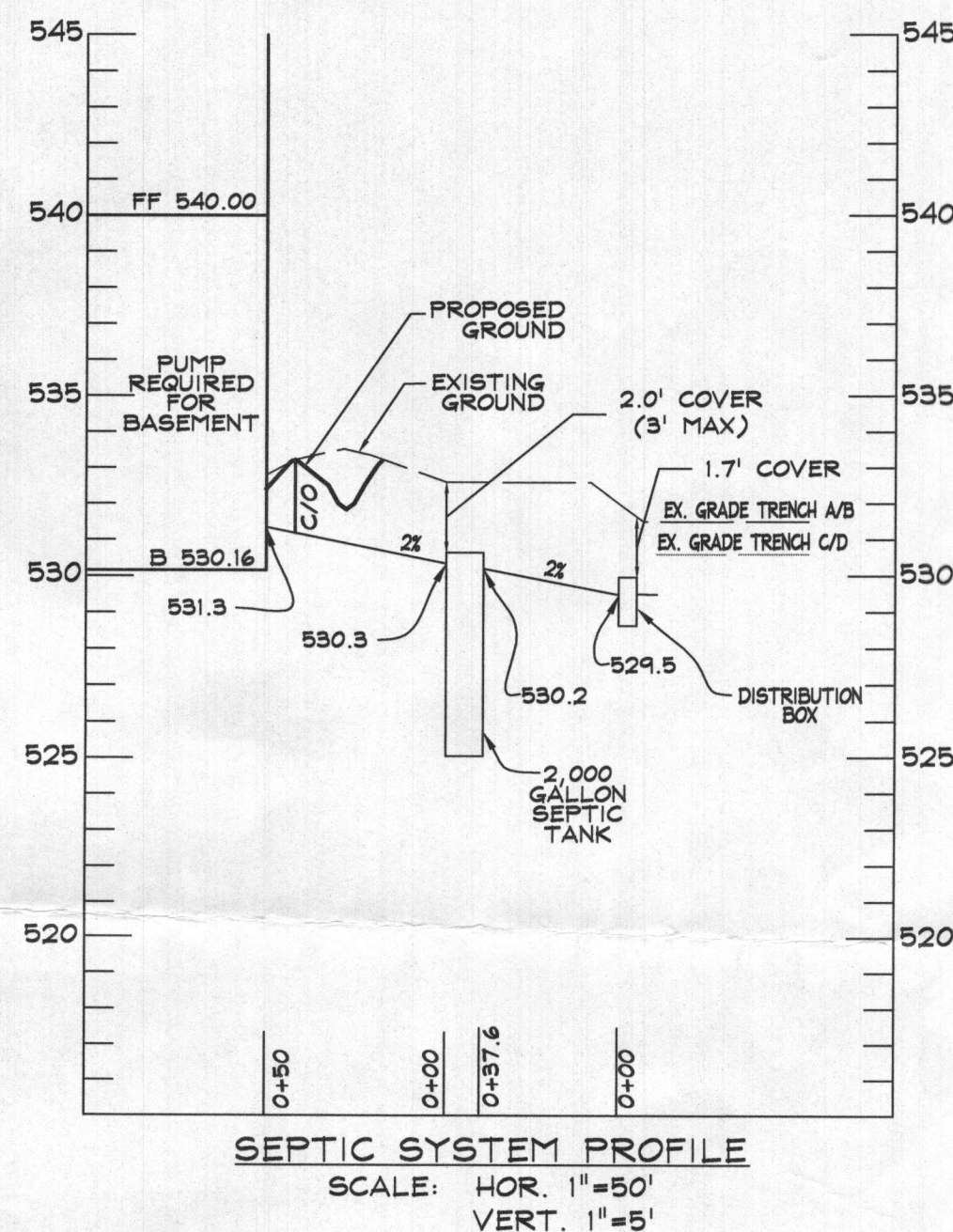
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LOT 21 PLAN VIEW
SCALE: 1" = 30'



TRENCH DETAIL INITIAL SYSTEM
N.T.S.



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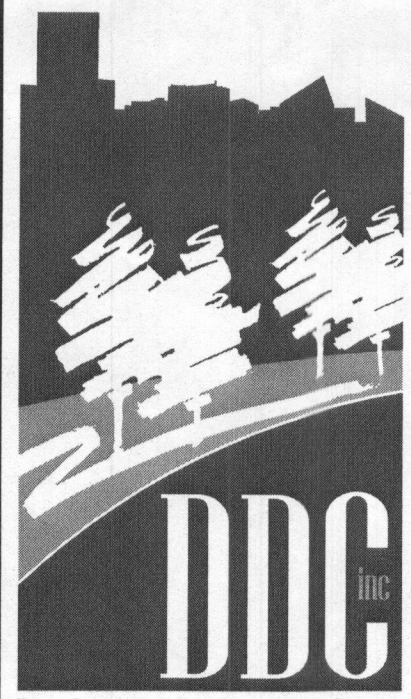
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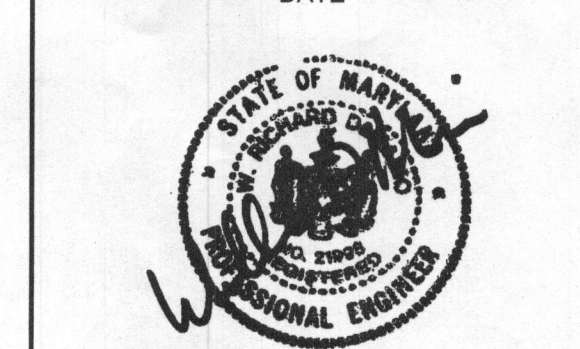
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