

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: 5 ONSITE SEWAGE DISPOSAL SYSTEM P 569504	
APPROVAL DATE: 5/20/21 ST PERMIT: CONSTRUCTION A	
PROPERTY ADDRESS: 5620 DOSA COURT, CLARKSVILLE, MD 21029	
SUBDIVISION: THE WOODLANDS LOT: 1 TAX ID: 05-601706	
CONTRACTOR: EMAIL:	
CONTRACTOR ADDRESS: PHONE:	
PROPERTY OWNER: WILLIAMSBURG GROUP EMAIL: marinamorris@williamsburgllc.co	m
OWNER ADDRESS: 5485 HARRIS FARM LANE, COLUMBIA, MD 21044 PHONE: (410)997-8800	
SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: TBD	
PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.	
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: APPLICATION RATE: 0.8	3
LINEAR FEET REQUIRED: 195 INLET DEPTH: 2.0	
TRENCHES: TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 8.0	
MINIMUM SPACE	
BETWEEN TRENCHES: 10 EFFECTIVE AREA BEGINNING DEPTH: 6.0 PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED	
SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES: INSTALL CLEANOUTS IN SHC AS ILLUSTRATED.	
ISSUED BY: R BRICKER ISSUE DATE: 512 EXPIRATION DATE: 512)
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 ADEQUAT TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA	E

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.

NOT TO SCALE	TRENCH/DRAINFIELD DATA
=1.50	WIDTH INLET BOTTOM
/ // //	3' 2' 8'
	NUMBER OF TRENCHES
	TOTAL LENGTH 204'
28 10 0	ABSORPTION AREA (0/2 39 St + 3) Lewa
28	DISTRIBUTION BOX LEVEL
12/66/	DISTRIBUTION BOX BAFFLE
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DISTRIBUTION BOX PORT 405
26/ 53/ 140	
	SEPTIC TANK DATA
	SEPTIC TANK 1 LEVEL TO
23' \0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MANUFACTURER Babylon
	CAPACITY 2000 GAL
19	SEAM LOC TANK LID DEPTH 3
	BAFFLES inlet or outlet
	BAFFLE FILTER
1/0085	MANHOLE LOC Inlet + outlet
1	6" PORT LOC
	WATERTIGHT TEST
	SLOTTED_US
	DATE ON LID 3-1-21
6	PUMP/SEPTIC TANK LEVEL
Denk /	MANUFACTURER
	CAPACITYGAL
	SEAM LOC
(\ /ın'	TANK LID DEPTH
1 113	BAFFLES
	BAFFLE FILTER MANHOLE LOC
	6" PORT LOC
	WATERTIGHT TEST
2000.	SLOTTED
ROAD NAME	DATE ON LID
DOSA COURT	
PRE-CONSTRUCTION: AS 17 7021 TANK SOA TRENCHES STAVED CONFIRM	1=2 2 = 2 21 2
	LO CONTOUR OF 10
START- AD	
DISTRICT CONTRACTOR OF THE PARTY OF THE PART	
INSTALLATION: 5/19/21 Tank set and two 66' trend	2 11
5/20/21 D-box set and leveled, last 72' trench	constructed, baffles asked
to tank. OK to backfill. (SD)	"
PRIM DISPECTOR ALL T	5/20/01
FINAL INSPECTOR DATE OF APPROVA	- 15/21 ·

GENERAL NOTES:

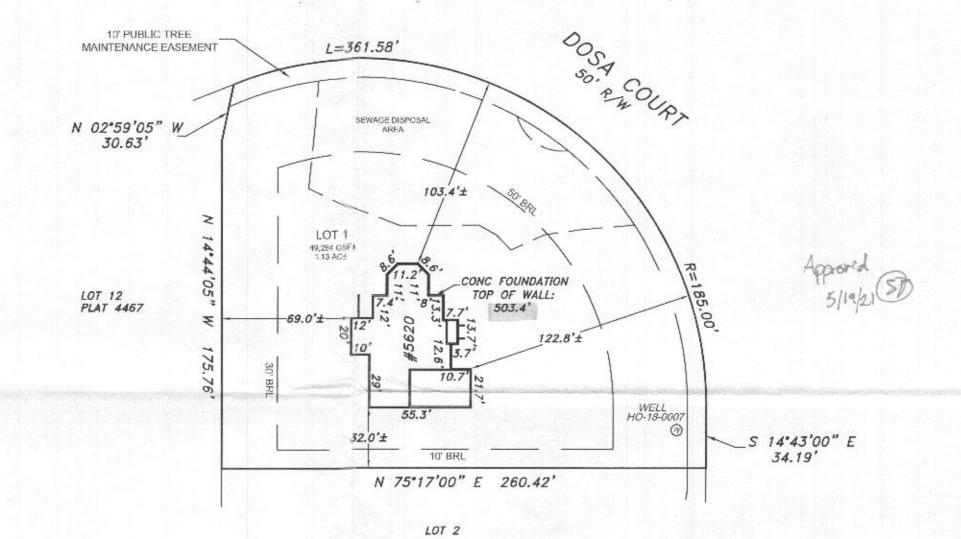
- The accuracy of the distances shown from any structure to any apparent property line is 1'±.
- This drawing does not represent a Boundary Survey. Any property markers labeled hereon are not guaranteed by NTT Associates, Inc.
- 3) This plat is of benefit to a consumer only insofar as it is required by a lender, a title insurance company or its agent in connection with contemplated transfer, financing, or refinancing.

 4) This plat does not provide for the accurate identification
- 4) This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required, for the transfer of title or securing financing or refinancing.

 5) This plat is not to be relied upon for the establishment
- This plat is not to be relied upon for the establishmen or location of fences, garages, buildings, or other existing or future improvements.
- by the control of the control of the current fille deed or record plat. Any easements, restrictions, rights of way, or any other property alterations not referred to in the current fille deed may not be shown.
- Unless otherwise noted, the bearings and north arrow shown hereon are in the meridian of the current title deed or record plat.
- deed or record plat.

 8) Building Restriction Line information, if shown, was obtained from existing records only and is not guaranteed by NIT Associates, inc.
- Flood Zone Information shown on FIRM maps is subject to interpretation.
- improvements which in the surveyor's opinion appear to be in a state of disrepair or considered "temporary" may not be shown.
- 11) If II appears encroachments may exist, a Boundary Survey is recommended to determine the exact location of the property boundary lines and improvements.
- property boundary lines and improvements.
 12) The locations of fence lines, if shown, are approximate.

Subject property is shown in Zone X on the FIRM Map of Howard County, Maryland on Community Panel Number 24027C0130 D , effective 11/06/2013



The purpose of this drawing is to locate, describe, and represent the positions of buildings and substantial improvements affecting the property shown hereon, being known as:

LOT 1 as shown on the plat entitled "THE WOODLANDS" recorded among the land records of Howard County, Maryland in Plat Number 25052

This is to certify that I either personally prepared or was in responsible charge over the preparation of this drawing and the surveying work reflected in it, all set forth in Regulation .12 of Chapter 09.13.06 of the Code of Maryland Annotated Regulations.



James Carl Hudgins Property Line Surveyor #96 Expiration Date: 3/11/2022

WALL CHECK 5620 DOSA COURT 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

NTT Associates, Inc.
16205 Old Frederick Rd.
Mt. Airy, Maryland 21771
Phone: (410) 442-2031
Fax: (410) 442-1315
www.nttsurveyors.com

| Scale: 1"= 50' | Date: 4/9/2021 | Field By: TOM | Drawn By: SCK

File No.: SEG20-003 Z Page No.: 1 of 1

0' 50' 100' 150'

	SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR	
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	В	0.24	
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	В	0.20	
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37	
MaC	MaC MANOR LOAM, 8 TO 15 PERCENT SLOPES			
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	В	0.24	
WhB	WILTSHIRE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.24	

1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE: NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY, SOILS GRID 12, SUB-GRID 205. 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

GENERAL NOTES

SUBJECT PROPERTY ZONED RC-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.

PROPERTY ADDRESS: 5620 DOSA COURT, CLARKSVILLE 21029

TOTAL AREA OF PROPERTY = 1.1309 AC.±

PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ADCOCK & ASSOCIATES, LLC ON **SEPTEMBER 16, 2014.**

EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004. REFERENCE: RECORD PLAT NO. 25051.

THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY ADCOCK & ASSOCIATES, LLC. ON SEPTEMBER 16, 2014. THE

PREVIOUS HOWARD COUNTY FILE NUMBERS: RECORD PLAT NO. 5471, F-83-114, ECP-15-032, WP-16-017, WP-17-060, SP-16-008, PB 431, WP-18-127, RECORD PLAT NO. 25051, F-18-094. 10. THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION

SERVICE, WEB SOIL SURVEY WEBSITE. HOWARD COUNTY SOILS GRID 12, SUB-GRID 205. A WETLAND AND STREAM STUDY HAS BEEN PREPARED BY ECO SCIENCE PROFESSIONALS INC. IN NOVEMBER 2014. 12. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND

DEPARTMENT OF THE ENVIRONMENT. 13. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC

SYSTEMS AND SEWAGE DISPOSAL AREAS HAVE BEEN FIELD LOCATED 4. THE WELL (#H0-18-0007) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN. 15. EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD

SURVEYS PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED. IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 16. GEOTECHNICAL INFORMATION HAS BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE

CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE AND FIELD INVESTIGATIONS.

17. STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET ONE BIORETENTION FACILITY (M-6) AND TWO DRYWELLS 18. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE

MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NUMBERS 28HC AND 34BA WERE USED FOR 19. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE

LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS ALTERNATIVE COMPLIANCE HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.

20. THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY. FOREST CONSERVATION OBLIGATIONS HAVE BEEN FULFILLED UNDER F-18-019.

2. ANY VEGETATION WITHIN AND NEAR TO WELL ZONES OR SEWAGE DISPOSAL AREAS POTENTIALLY COULD BE DAMAGED OR DESTROYED DURING INSTALLATION OF WELLS OR SEPTIC SYSTEMS. ALL SPECIMEN TREES WITHIN OR NEAR SDA OR WELL ZONES HAVE BEEN DESIGNATED FOR REMOVAL AND APPROVED FOR REMOVAL UNDER SP-16-008 AND WP-17-060. 23. BIORETENTION FACILITY 1 IS TO BE WRAPPED IN AN IMPERMEABLE LINER.

4. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF AN USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS: WIDTH - 12 FEET (16 FEET SERVING MORE THAN ON RESIDENCE)

 SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS

 STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER

MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE

. DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.05 FOR DRIVEWAY LOTS, 1, 2, AND THE USE IN COMMON DRIVEWAY FOR LOTS 3, 4, 5, 6, 7 AND 8, AND BUILDABLE PRESERVATION PARCEL A.

SEPTIC SYSTEM TRENCH **DESIGN SPECIFICATIONS**

 INITIAL SYSTEM SYSTEM:
 APPLICATION RATE: 0.8 -EFFECTIVE AREA BEGINNING DEPTH: 6.0' -BOTTOM MAXIMUM DEPTH: 8.0'

1. DESIGN FLOW: -5 BEDROOMS AT 150 GPD - 5x150 GPD = 750 GPD

2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: -DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF 3. SIDEWALL REDUCTION CREDIT: - TRENCH WIDTH (W) = 3.0' TRENCH EFFECTIVE DEPTH (D) = 2.0' -(W+2) / (W+1+2D) X 100 = 62%

4. LINEAR LENGTH OF TRENCH REQUIRED: -DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (62%) / TRENCH WIDTH (3.0') = 193.75' 5. LINEAR LENGTH OF TRENCH PROVIDED = 195.0'

- THREE TRENCHES 65.0 LF EACH 6. EXISTING GRADE: TRENCH 11: 494.74 INVERT:

TRENCH [1: 492.74 EXISTING GRADE: TRENCH 12: 493.75 INVERT: TRENCH I2: 491.75 EXISTING GRADE: TRENCH 13: 492.92 TRENCH 13: 490.92

 1ST REPLACEMENT SYSTEM :
 -APPLICATION RATE: 0.6 -EFFECTIVE AREA BEGINNING DEPTH: 4.0' -BOTTOM MAXIMUM DEPTH: 8.0'

1. DESIGN FLOW: -5 BEDROOMS AT 150 GPD

- 5x150 GPD = 750 GPD 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.6) = 1250 SF 3. SIDEWALL REDUCTION CREDIT:

-TRENCH WIDTH (W) = 3.0' TRENCH EFFECTIVE DEPTH (D) =4.0° -(W+2) / (W+1+2D) X 100 =41%

4. LINEAR LENGTH OF TRENCH REQUIRED: -DRAIN FIELD SQUARE FOOTAGE (1250) X SIDEWALL REDUCTION CREDIT (41%) / TRENCH WIDTH (3.0') = 170.83' 5. LINEAR LENGTH OF TRENCH PROVIDED = 172.0'

- TWO TRENCHES 86.0 LF EACH 6. EXISTING GRADE: TRENCH R1: 491.25 INVERT: TRENCH R1: 489.25 EXISTING GRADE: TRENCH R2: 490.24 TRENCH R2: 488.24

2ND REPLACEMENT SYSTEM
- APPLICATION RATE: 1.2 -EFFECTIVE AREA BEGINNING DEPTH: 2.0' -BOTTOM MAXIMUM DEPTH: 8.0'

1. DESIGN FLOW: -5 BEDROOMS AT 150 GPD

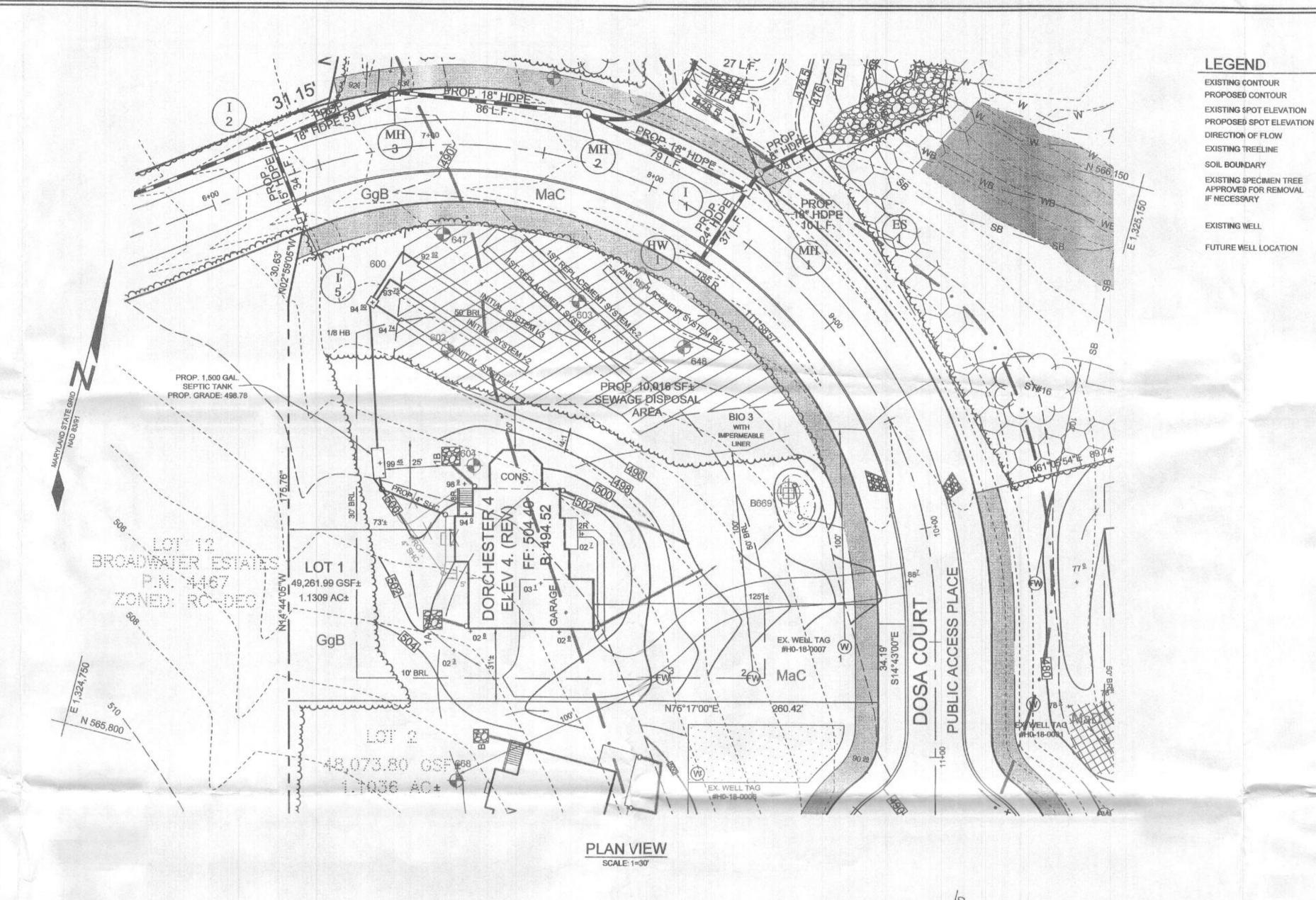
- 5x150 GPD = 750 GPD 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: -DESIGN FLOW (750 GPD) / APPLICATION RATE (1.2) = 625 SF

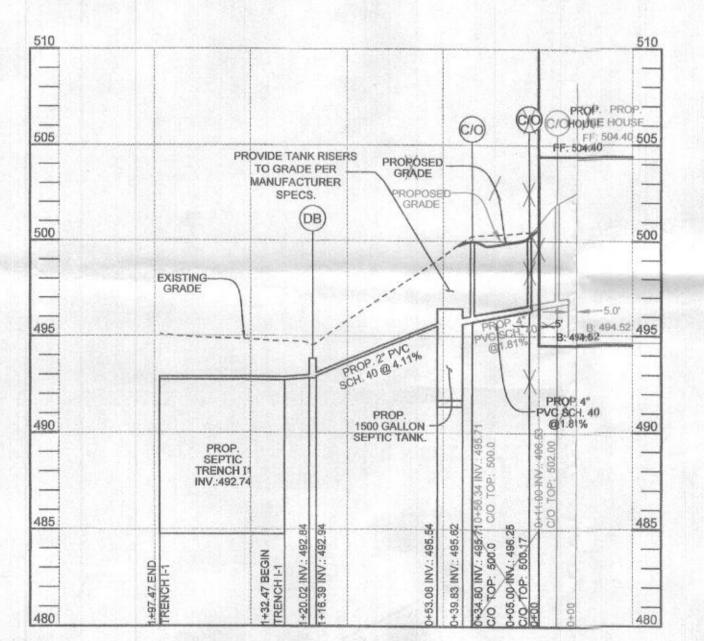
3. SIDEWALL REDUCTION CREDIT: TRENCH WIDTH (W) = 3.0° - TRENCH EFFECTIVE DEPTH (D) =6.0'

-(W+2) / (W+1+2D) X 100 =31% 4. LINEAR LENGTH OF TRENCH REQUIRED: -DRAIN FIELD SQUARE FOOTAGE (625) X SIDEWALL REDUCTION CREDIT (31%) / TRENCH WIDTH (3.0') = 64.58'

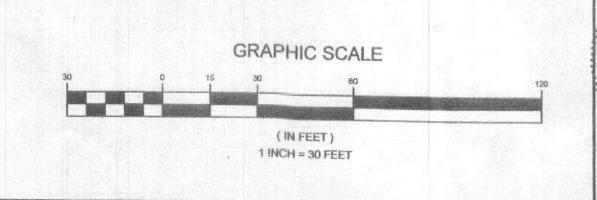
5. LINEAR LENGTH OF TRENCH PROVIDED = 65.0" -ONE TRENCH 65.0 LF EACH 6. EXISTING GRADE: TRENCH R1: 488.46 TRENCH R1: 486.46

REVISED PROFILE FROM 0+00 TO 0+56.34 04/12/2021 NO. DATE DESCRIPTION REVISIONS





PROFILE VIEW SCALE: 1=50°



HOCO MON.

DESCRIPTION

S SIDE OF ROUTE 32, 0.2 MILES W OF

2.5' N OF EDGE OF PAVEMENT OF ROUTE 32.

13.3' SE OF EXIT 20 SIGN

EXIT 20 SIGN, +/- 320' E OF GUARD RAIL

HOWARD COUNTY, MARYLAND ADC MAP 25 A7

VICINITY MAP

BENCHMARKS

450.048

EASTING ELEVATION

1,324,672.167

WILLIAMSBURG GROUP 5485 HARPERS FARM ROAD, SUITE 200 COLUMBIA, MARYLAND 21044 410.997.8800

ONSITE SEWAGE DISPOSAL SYSTEM PLAN THE WOODLANDS 5620 DOSA COURT, LOT 1

+8253

mmmmm

NUMBER | NORTHING

565,351.762

563,852.491

CHARGESTAND & CONTRACTOR

-

382

SILL

16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696,2022 Email: info@sillengineering.com

CHECKED BY: PS Civil Engineering for Land Development

OFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DUL

OWNER/DEVELOPER

TAX MAP 34 GRID 05

ENGINEERING GROUP, LLC

SCALE: AS SHOWN DATE: DECEMBER 21, 2020 PROJECT#: 20-003 SHEET#: _ 1 _ of _ 1

HOWARD COUNTY, MARYLAND

DESIGN BY:

DRAWN BY:

PARCEL 15

LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2021

SOILS LEGEND				
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR	
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	В	0.24	
GgB GLENELG LOAM, 3 TO 8 PERCENT SLOPES		В	0.20	
GmB GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES			0.37	
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES B 0.24		0.24	
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES B 0.24			
WhB	WhB WILTSHIRE SILT LOAM, 3 TO 8 PERCENT SLOPES		0.24	

1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY, SOILS GRID 12, SUB-GRID 205. 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

GENERAL NOTES

SUBJECT PROPERTY ZONED RC-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.

PROPERTY ADDRESS: 5620 DOSA COURT, CLARKSVILLE 21029 TOTAL AREA OF PROPERTY = 1.1309 AC.±

PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY. 6. THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ADCOCK & ASSOCIATES, LLC ON SEPTEMBER 16, 2014.

7. THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY ADCOCK & ASSOCIATES, LLC. ON SEPTEMBER 16, 2014. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.

9. PREVIOUS HOWARD COUNTY FILE NUMBERS: RECORD PLAT NO. 5471, F-83-114, ECP-15-032, WP-16-017, WP-17-060, SP-16-008, PB 431, WP-18-127, RECORD PLAT NO. 25051, F-18-094.

10. THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION

SERVICE, WEB SOIL SURVEY WEBSITE. HOWARD COUNTY SOILS GRID 12, SUB-GRID 205. A WETLAND AND STREAM STUDY HAS BEEN PREPARED BY ECO SCIENCE PROFESSIONALS INC. IN NOVEMBER 2014. 12. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND

DEPARTMENT OF THE ENVIRONMENT 13. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC

SYSTEMS AND SEWAGE DISPOSAL AREAS HAVE BEEN FIELD LOCATED. THE WELL (#H0-18-0007) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN. 15. EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS, APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND

TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 16. GEOTECHNICAL INFORMATION HAS BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE

CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE AND FIELD INVESTIGATIONS. 17. STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET ONE BIORETENTION FACILITY (M-6) AND TWO DRYWELLS

18. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NUMBERS 28HC AND 34BA WERE USED FOR

19. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS ALTERNATIVE COMPLIANCE HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.

THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY. 21. FOREST CONSERVATION OBLIGATIONS HAVE BEEN FULFILLED UNDER F-18-019.

22. ANY VEGETATION WITHIN AND NEAR TO WELL ZONES OR SEWAGE DISPOSAL AREAS POTENTIALLY COULD BE DAMAGED OR DESTROYED DURING INSTALLATION OF WELLS OR SEPTIC SYSTEMS. ALL SPECIMEN TREES WITHIN OR NEAR SDA OR WELL ZONES HAVE BEEN DESIGNATED FOR REMOVAL AND APPROVED FOR REMOVAL UNDER SP-16-008 AND WP-17-060.

23. BIORETENTION FACILITY 1 IS TO BE WRAPPED IN AN IMPERMEABLE LINER. 24. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF AN USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:

 WIDTH - 12 FEET (16 FEET SERVING MORE THAN ON RESIDENCE) SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS

 STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER

COMMON DRIVEWAY FOR LOTS 3, 4, 5, 6, 7 AND 8, AND BUILDABLE PRESERVATION PARCEL A.

 MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE . DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.05 FOR DRIVEWAY LOTS, 1, 2, AND THE USE IN

SEPTIC SYSTEM TRENCH

DESIGN SPECIFICATIONS

APPLICATION RATE: 0.8 - EFFECTIVE AREA BEGINNING DEPTH: 6.0' -BOTTOM MAXIMUM DEPTH: 8.0'

1. DESIGN FLOW: - 5 BEDROOMS AT 150 GPD

- 5x150 GPD = 750 GPD 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: -DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF 3. SIDEWALL REDUCTION CREDIT:

-TRENCH WIDTH (W) = 3.0' - TRENCH EFFECTIVE DEPTH (D) = 2.0' -(W+2) / (W+1+2D) X 100 = 62% 4. LINEAR LENGTH OF TRENCH REQUIRED:

- DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (62%) / TRENCH WIDTH (3.0') = 193.75' 5. LINEAR LENGTH OF TRENCH PROVIDED = 195.0'

- THREE TRENCHES 65.0 LF EACH 6. EXISTING GRADE: TRENCH I1: 494.74 TRENCH I1: 492.74 INVERT: TRENCH 12: 493.75 EXISTING GRADE: INVERT: TRENCH 12: 491.75 TRENCH 13: 492.92 EXISTING GRADE:

 1ST REPLACEMENT SYSTEM:
 -APPLICATION RATE: 0.6 -EFFECTIVE AREA BEGINNING DEPTH: 4.0' -BOTTOM MAXIMUM DEPTH: 8.0'

1. DESIGN FLOW: -5 BEDROOMS AT 150 GPD - 5x150 GPD = 750 GPD

INVERT:

2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: -DESIGN FLOW (750 GPD) / APPLICATION RATE (0.6) = 1250 SF 3. SIDEWALL REDUCTION CREDIT: -TRENCH WIDTH (W) = 3.0'

TRENCH 13: 490.92

-(W+2) / (W+1+2D) X 100 =41% 4. LINEAR LENGTH OF TRENCH REQUIRED: -DRAIN FIELD SQUARE FOOTAGE (1250) X SIDEWALL REDUCTION CREDIT (41%) / TRENCH WIDTH (3.0') = 170.83' 5. LINEAR LENGTH OF TRENCH PROVIDED = 172.0'

TRENCH R2: 488.24

-TWO TRENCHES 86.0 LF EACH 6. EXISTING GRADE: TRENCH R1: 491.25 INVERT: TRENCH R1: 489.25 EXISTING GRADE: TRENCH R2: 490.24

-TRENCH EFFECTIVE DEPTH (D) =4.0

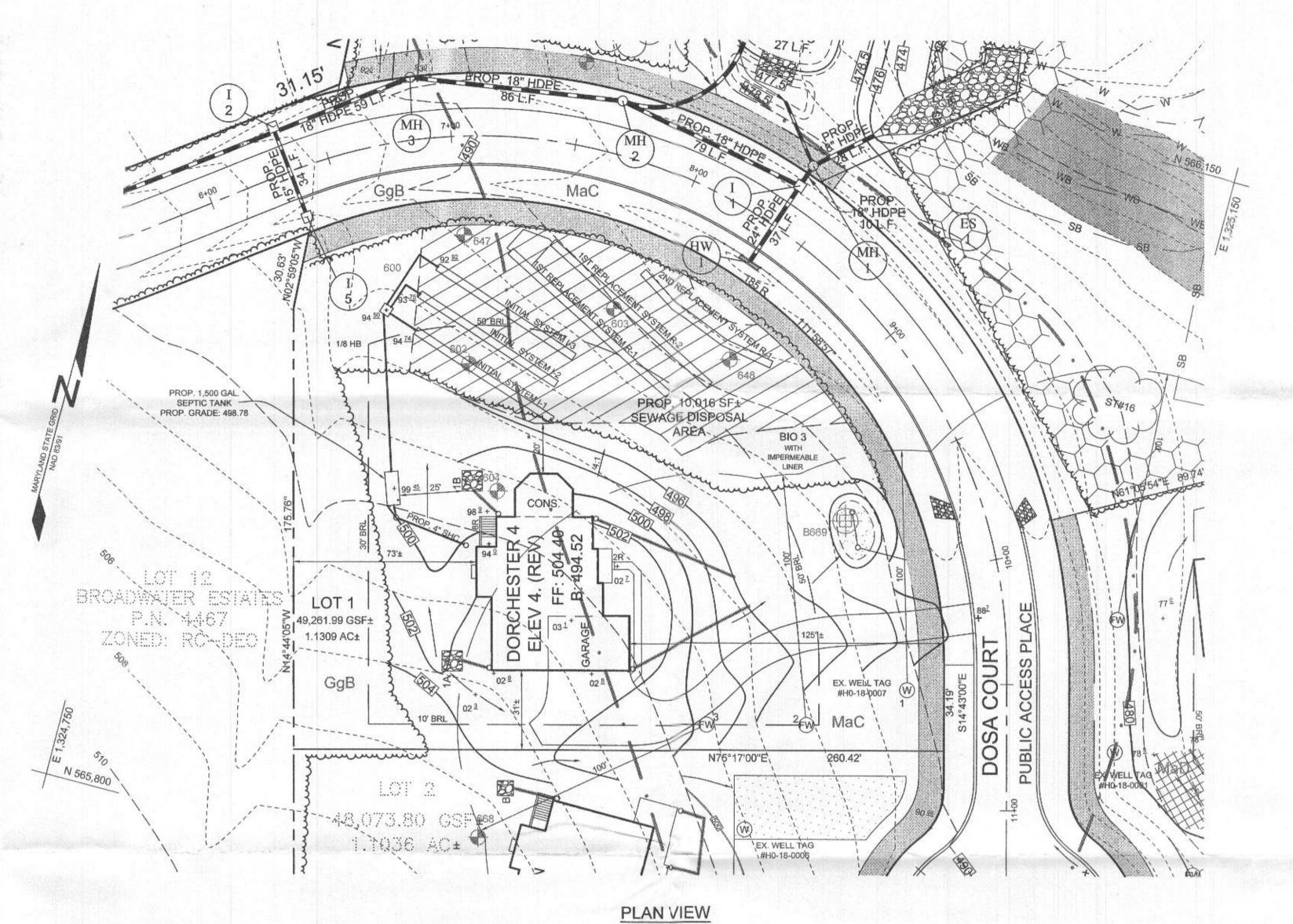
 2ND REPLACEMENT SYSTEM:
 APPLICATION RATE: 1.2 -EFFECTIVE AREA BEGINNING DEPTH: 2.0'

-BOTTOM MAXIMUM DEPTH: 8.0' 1. DESIGN FLOW:

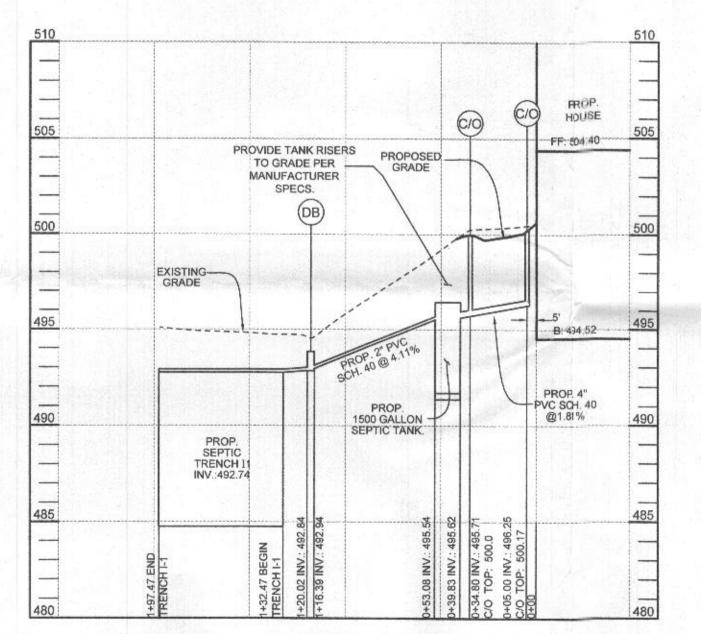
-5 BEDROOMS AT 150 GPD - 5x150 GPD = 750 GPD 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: -DESIGN FLOW (750 GPD) / APPLICATION RATE (1.2) = 625 SF 3. SIDEWALL REDUCTION CREDIT:

-TRENCH WIDTH (W) = 3.0' - TRENCH EFFECTIVE DEPTH (D) =6.0' -(W+2) / (W+1+2D) X 100 =31% 4. LINEAR LENGTH OF TRENCH REQUIRED: - DRAIN FIELD SQUARE FOOTAGE (625) X SIDEWALL

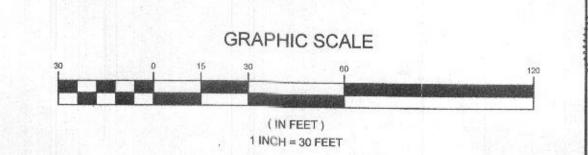
REDUCTION CREDIT (31%) / TRENCH WIDTH (3.0') = 64.58' 5. LINEAR LENGTH OF TRENCH PROVIDED = 66.0' - ONE TRENCH 65.0 LF EACH 6. EXISTING GRADE: TRENCH R1: 488.46 TRENCH R1: 486.46







PROFILE VIEW

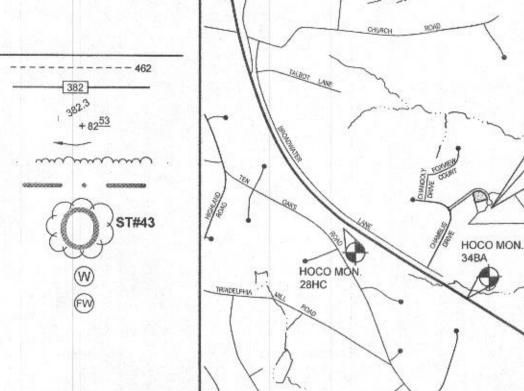


LEGEND EXISTING CONTOUR

PROPOSED CONTOUR EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION DIRECTION OF FLOW EXISTING TREELINE

SOIL BOUNDARY **EXISTING SPECIMEN TREE** APPROVED FOR REMOVAL IF NECESSARY

EXISTING WELL FUTURE WELL LOCATION



VICINITY MAP SCALE: 1"=2000"

BENCHMARKS					
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	
28HC	565,351.762	1,332,102.463	552.207	S SIDE OF ROUTE 32, 0.2 MILES W OF EXIT 20 SIGN, +/- 320' E OF GUARD RAIL	
34BA	563,852.491	1,324,672.167	450.048	2.5' N OF EDGE OF PAVEMENT OF ROUTE 32 13.3' SE OF EXIT 20 SIGN	

OWNER/DEVELOPER

WILLIAMSBURG GROUP 5485 HARPERS FARM ROAD, SUITE 200 COLUMBIA, MARYLAND 21044 410.997.8800

ONSITE SEWAGE DISPOSAL SYSTEM PLAN THE WOODLANDS 5620 DOSA COURT, LOT 1

PARCEL 15

HOWARD COUNTY, MARYLAND

CHECKED BY: PS

DESIGN BY:

DRAWN BY:

TAX MAP 34 GRID 05

SILL ENGINEERING GROUP, LLC

16005 Frederick Road, 2nd Floor

SHEET#: __1__ of __1_

SCALE: AS SHOWN Woodbine, Maryland 21797 DATE: DECEMBER 21, 2020 Phone: 443.325.5076 Fax: 410.696.2022 PROJECT#: 20-003 Email: info@sillengineering.com Civil Engineering for Land Development

PROFESSIONAL CERTIFICATION: 1 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. 32025, EXPIRATION DATE: JUNE 20, 2021

PREVIOUS HOWARD COUNTY FILE NUMBERS: RECORD PLAT NO. 5471, F-83-114, ECP-15-032, WP-16-017, WP-17-060, SP-16-008, PB

10. THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION

12. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND

13. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC

SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS, APPROXIMATE LOCATION OF THE

17. STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET ONE BIORETENTION FACILITY (M-6) AND TWO DRYWELLS

MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NUMBERS 28HC AND 34BA WERE USED FOR

18. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE

19. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS,

UNLESS ALTERNATIVE COMPLIANCE HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE

22. ANY VEGETATION WITHIN AND NEAR TO WELL ZONES OR SEWAGE DISPOSAL AREAS POTENTIALLY COULD BE DAMAGED OR

. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF AN USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO

SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM)

DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER

DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.05 FOR DRIVEWAY LOTS, 1, 2, AND THE USE IN

HAVE BEEN DESIGNATED FOR REMOVAL AND APPROVED FOR REMOVAL UNDER SP-16-008 AND WP-17-080.

 GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING)

COMMON DRIVEWAY FOR LOTS 3, 4, 5, 6, 7 AND 8, AND BUILDABLE PRESERVATION PARCEL A.

ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:

EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL

IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND

TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED

11. A WETLAND AND STREAM STUDY HAS BEEN PREPARED BY ECO SCIENCE PROFESSIONALS INC. IN NOVEMBER 2014.

15. EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS. FIELD

16. GEOTECHNICAL INFORMATION HAS BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE

SERVICE, WEB SOIL SURVEY WEBSITE. HOWARD COUNTY SOILS GRID 12, SUB-GRID 205.

CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE AND FIELD INVESTIGATIONS.

. THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY.

21. FOREST CONSERVATION OBLIGATIONS HAVE BEEN FULFILLED UNDER F-18-019.

23. BIORETENTION FACILITY 1 IS TO BE WRAPPED IN AN IMPERMEABLE LINER.

WIDTH - 12 FEET (16 FEET SERVING MORE THAN ON RESIDENCE)

MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE

SEPTIC SYSTEM TRENCH

DESIGN SPECIFICATIONS

-DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF

TRENCH I1: 494.74 TRENCH 11: 492.74

TRENCH 12: 493.75

TRENCH 12: 491.75

TRENCH 13: 492.92 TRENCH 13: 490.92

-DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (62%) / TRENCH WIDTH (3.0') = 193.75'

5. LINEAR LENGTH OF TRENCH PROVIDED = 195.0'

-EFFECTIVE AREA BEGINNING DEPTH: 4.0'

2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:

-DRAIN FIELD SQUARE FOOTAGE (1250) X SIDEWALL REDUCTION CREDIT (41%) / TRENCH WIDTH (3.0') = 170.83'

TRENCH R1: 489.25

TRENCH R2: 488.24

5. LINEAR LENGTH OF TRENCH PROVIDED = 172.0'

-DESIGN FLOW (750 GPD) / APPLICATION RATE (0.6) = 1250 SF

-BOTTOM MAXIMUM DEPTH: 8.0'

-EFFECTIVE AREA BEGINNING DEPTH: 6.0'

2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:

-TRENCH EFFECTIVE DEPTH (D) = 2.0' -(W+2) / (W+1+2D) X 100 = 62% 4. LINEAR LENGTH OF TRENCH REQUIRED:

- THREE TRENCHES 65.0 LF EACH

6. EXISTING GRADE:

EXISTING GRADE:

EXISTING GRADE:

1ST REPLACEMENT SYSTEM
 - APPLICATION RATE: 0.6

-5 BEDROOMS AT 150 GPD - 5x150 GPD = 750 GPD

3. SIDEWALL REDUCTION CREDIT

-TRENCH EFFECTIVE DEPTH (D) =4.0° -(W+2) / (W+1+2D) X 100 =41%

4. LINEAR LENGTH OF TRENCH REQUIRED:

- TWO TRENCHES 86.0 LF EACH

-BOTTOM MAXIMUM DEPTH: 8.0'

2ND REPLACEMENT SYSTEM:
 APPLICATION RATE: 1.2

- 5 BEDROOMS AT 150 GPD - 5x150 GPD = 750 GPD

3. SIDEWALL REDUCTION CREDIT:

-TRENCH EFFECTIVE DEPTH (D) =6.0' -(W+2) / (W+1+2D) X 100 =31%

4. LINEAR LENGTH OF TRENCH REQUIRED:

6. EXISTING GRADE: TRENCH R1: 488.46

-TRENCH WIDTH (W) = 3.0'

-ONE TRENCH 65.0 LF EACH

6. EXISTING GRADE: TRENCH R1: 491.25

EXISTING GRADE: TRENCH R2: 490.24

-EFFECTIVE AREA BEGINNING DEPTH: 2.0'

2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:

-DRAIN FIELD SQUARE FOOTAGE (625) X SIDEWALL

5. LINEAR LENGTH OF TRENCH PROVIDED = 65.0'

-DESIGN FLOW (750 GPD) / APPLICATION RATE (1.2) = 625 SF

REDUCTION CREDIT (31%) / TRENCH WIDTH (3.0') = 64.58'

TRENCH R1: 486.46

REVISED PROFILE FROM 0+00 TO 0+56.34

DESCRIPTION

REVISIONS

NO.

04/12/2021

DATE

-TRENCH WIDTH (W) = 3.0'

INVERT:

INVERT:

1. DESIGN FLOW:

INVERT:

1. DESIGN FLOW:

-BOTTOM MAXIMUM DEPTH: 8.0'

-5 BEDROOMS AT 150 GPD - 5x150 GPD = 750 GPD

3. SIDEWALL REDUCTION CREDIT: - TRENCH WIDTH (W) = 3.0'

SYSTEMS AND SEWAGE DISPOSAL AREAS HAVE BEEN FIELD LOCATED. 14. THE WELL (#H0-18-0007) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

REFERENCE: RECORD PLAT NO. 25051.

DEPARTMENT OF THE ENVIRONMENT.

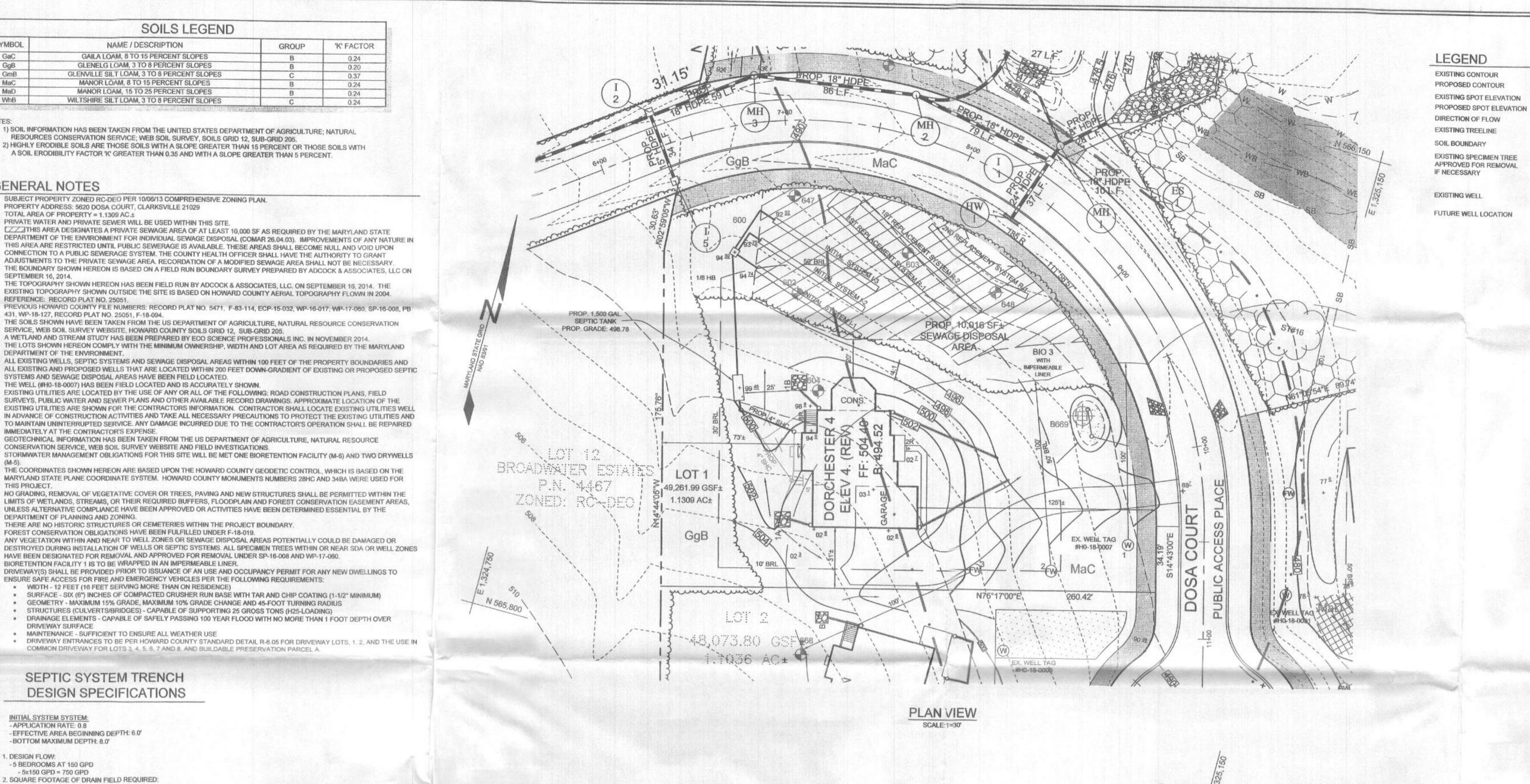
431, WP-18-127, RECORD PLAT NO. 25051, F-18-094.

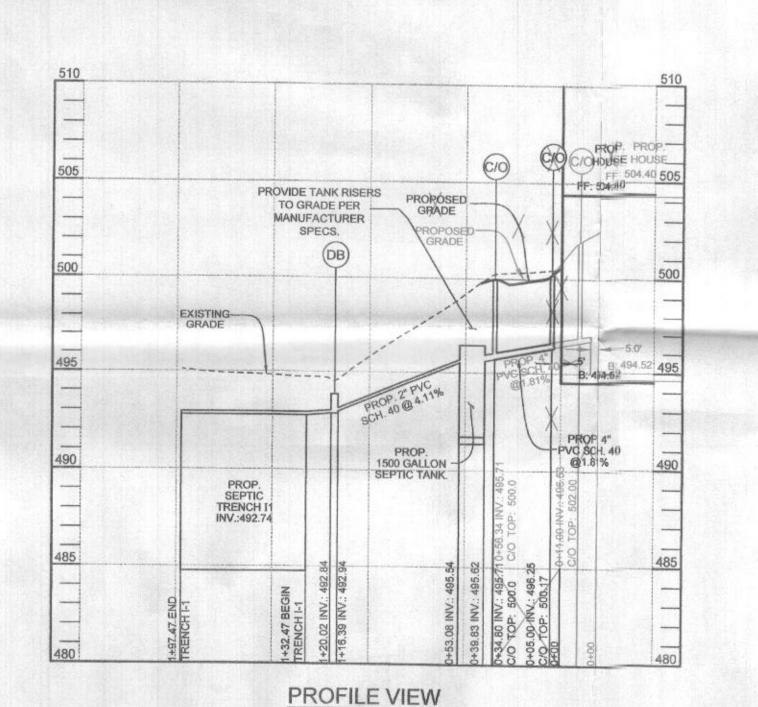
IMMEDIATELY AT THE CONTRACTOR'S EXPENSE

DEPARTMENT OF PLANNING AND ZONING

INITIAL SYSTEM SYSTEM:
 APPLICATION RATE: 0.8

1. DESIGN FLOW:





SCALE: 1=50'

GRAPHIC SCALE (IN FEET) 1 INCH = 30 FEET

HOCO MON

HOWARD COUNTY, MARYLAND ADC MAP 25 A7

VICINITY MAP

SCALE: 1"=2000"

DESCRIPTION

S SIDE OF ROUTE 32, 0.2 MILES W OF

EXIT 20 SIGN, +/- 320' E OF GUARD RAIL

.5' N OF EDGE OF PAVEMENT OF ROUTE 32. 13.3' SE OF EXIT 20 SIGN

BENCHMARKS

450.048

NORTHING EASTING ELEVATION

1,332,102.463

1,324,672.167

565,351.762

563,852.491

rédline correction for SAC location. OK reB 4/20/

OWNER/DEVELOPER WILLIAMSBURG GROUP

5485 HARPERS FARM ROAD, SUITE 200 COLUMBIA, MARYLAND 21044 410.997.8800

ONSITE SEWAGE DISPOSAL SYSTEM PLAN THE WOODLANDS 5620 DOSA COURT, LOT 1

TAX MAP 34 GRID 05

-----462

+8253

mmmm

SILL

ENGINEERING GROUP, LLC 16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022

DRAWN BY: CHECKED BY: PS SCALE: AS SHOWN DATE: DECEMBER 21, 2020 PROJECT#: 20-003 Email: info@sillengineering.com

PARCEL 15

HOWARD COUNTY, MARYLAND

DESIGN BY:

Civil Engineering for Land Development SHEET#: __1__ of __1 ROFESSIONAL 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. 32025, EXPIRATION DATE: JUNE 20, 2021