

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: 4/3/2025 **ONSITE SEWAGE DISPOSAL SYSTEM** P 5-89024

APPROVAL DATE: 5/9/2025 **PERMIT: NEW CONSTRUCTION** A _____

PROPERTY ADDRESS: 12950 Highland Road

SUBDIVISION: McDaniel Property LOT: 8 TAX ID: _____

CONTRACTOR: Hatfield's Equipment & Dedication Serv. EMAIL: _____

CONTRACTOR ADDRESS: PO Box 519, Annapolis Junction MD 20701 PHONE: 301-490-4289

PROPERTY OWNER: John P. McDaniel EMAIL: _____

OWNER ADDRESS: 13032 Highland Road, Highland, MD 20777 PHONE: 443-367-0422

SEPTIC TANK SIZE: 2,000 PUMP SIZE: N/A PUMP TANK CAPACITY: N/A

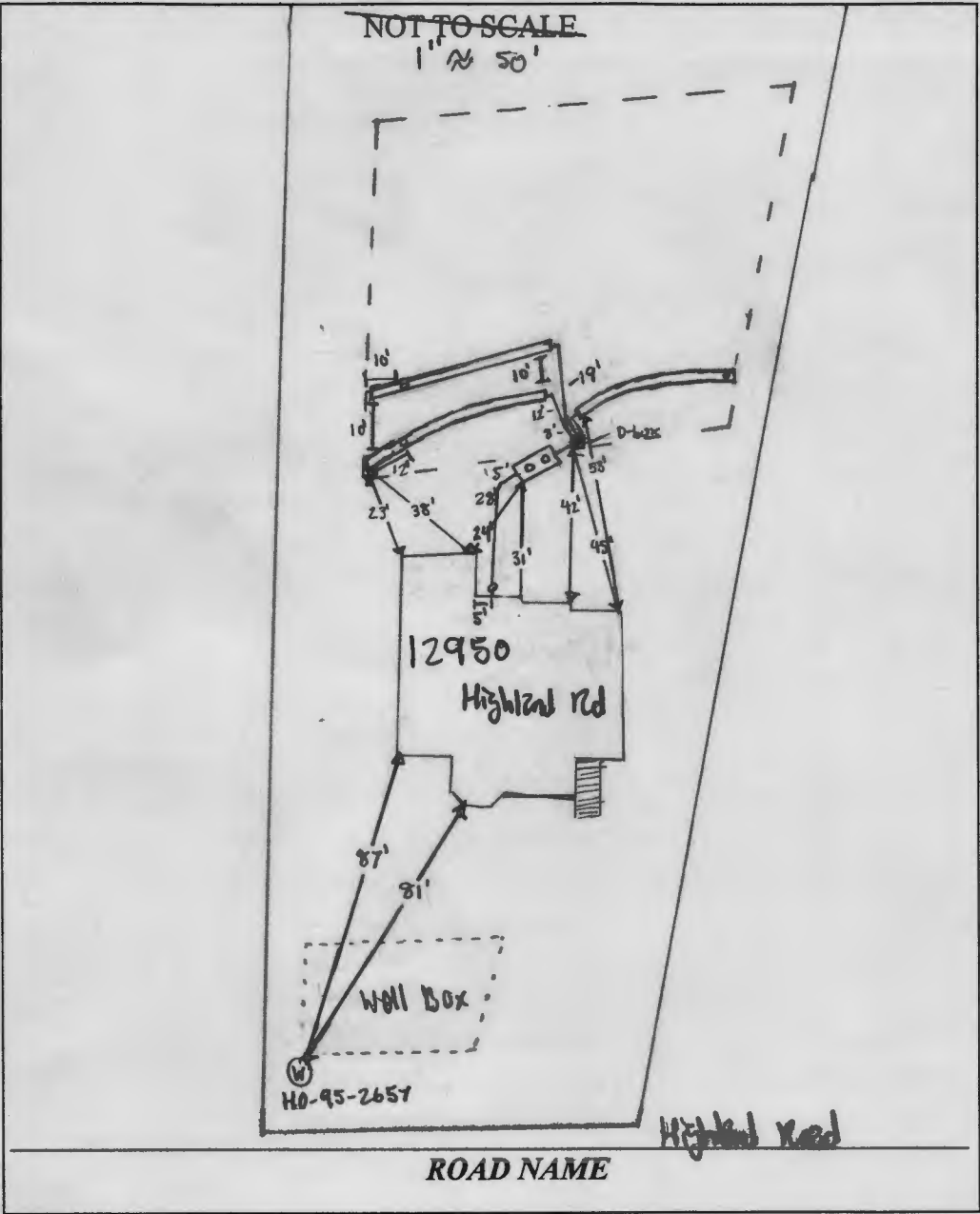
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>150</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</u>
LOCATION:	SYSTEM TO BE STAKED BY DESIGNER AND VERIFIED BY APPROVING AUTHORITY DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 3- 50' trenches	

ISSUED BY: Melanie Eskenburg ISSUE DATE: 4/3/25 EXPIRATION DATE: 4/3/26

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED
- 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 SEPTIC 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: THE HCHD DOES NOT WARRANTY ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	2.5'-3'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		154'
ABSORPTION AREA		300 sq' + SW
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Bethlon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	2'
BAFFLES	6" Front 9 1/2" Back
BAFFLE FILTER	—
MANHOLE LOC	Front & back
6" PORT LOC	—
WATERTIGHT TEST	—
SLOTTED	yes
DATE ON LID	3/25/2026
PUMP/SEPTIC TANK LEVEL N/A	
MANUFACTURER	—
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	—
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—
SLOTTED	—
DATE ON LID	—

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: Todd Tracey
 SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD: YES/NO

PRE-CONSTRUCTION NOTES:
 5/17/2025 - installer onsite for pre-con. SPA installed, trenches started, & tank staked per plan. trench 16' x 16' 50' & all on center. SPA closer to driveway than plan, installer stated finished driveway will be more than currently. OK to start work. (M)

CONTROL PANEL DATA	
CONTROL PANEL HEIGHT	—
(MIN 30")	—
INSPECTION DATE	—
INSPECTION: PASS/FAIL (CIRCLE ONE)	

INSTALLATION NOTES:
 5/18/2025 - installer onsite for inspection. right trench started, clay bottom @ upper 3' of trench. 3'-7" sand layer. tank set while waiting tank works ok. Left side. come back onsite later in the day. All 3 trenches finished, 16' x 16' @ 50', 51', & 53'. inlet @ 2.5'-3'. stone & fabric ok. also parts installed 10' & 12' from driveway. OK to bump in trench. (M)
 5/19/2025 - installer onsite for inspection. solid pipe from house to tank installed. c/c seen near house, adequate fall. 6" front & 9" back baffle installed in tank. slot seen in tank. d-box installed w/ baffle & also port. leveled while onsite. Adequate fall from d-box to beginning of trench. ok to bump in tank. (M)

FINAL INSPECTOR S. Page DATE OF APPROVAL 5/19/2025

Oswald Jr, Woodin

From: Oswald Jr, Woodin
Sent: Monday, October 28, 2024 10:20 AM
To: Rob Vogel
Cc: Jeremiah Reynolds
Subject: OSDS Plan Review Comments_12950 Highland Road

Hi Rob,

Good morning. The OSDS Plan for 12950 Highland Road has been reviewed with the following comments:

1. The set of trenches for the initial system including the 1st replacement trench while on contour have too many bends. An installer will not install the pipe as shown. Please note that the trench pipe is allowed to be a couple of inches off contour. Please revise and/or consult with an installer on this.
2. There is a 4 inch pipe that appears to start at the top of the driveway (no inlet grate shown), and ends on the back side of the driveway (no rip rap shown). Is this design correct?
property

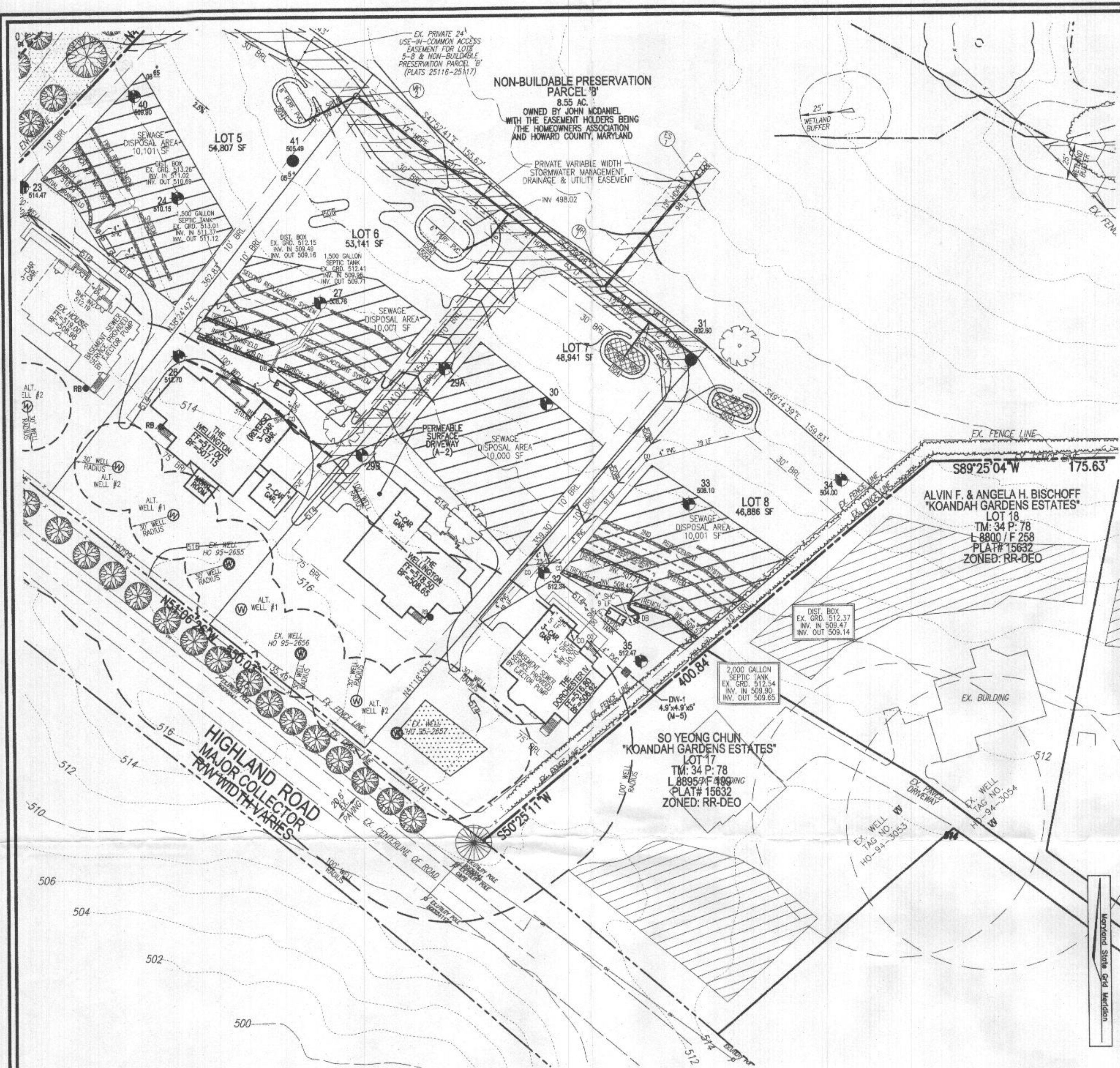
Should you have any questions, please feel free to contact me.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Bureau of Environmental Health
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
(410) 313 - 1786
www.hchealth.org

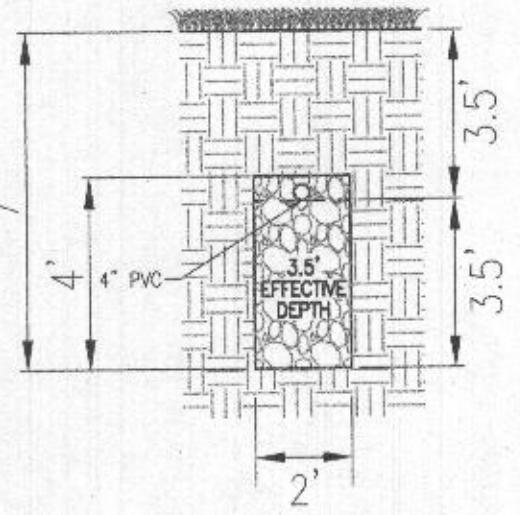
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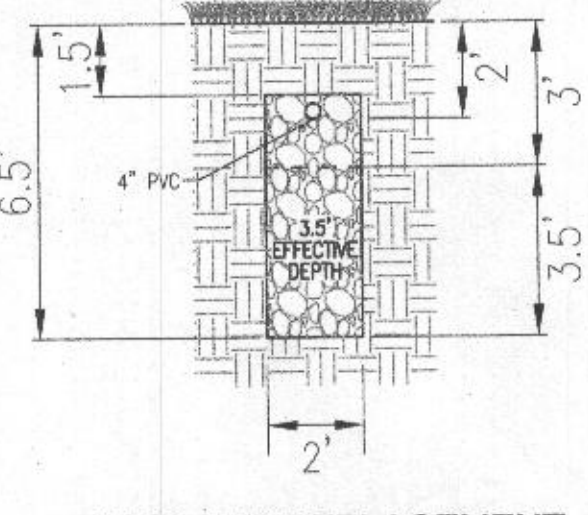
PLAN VIEW
SCALE: 1"=50'

TRENCH INFO. (INITIAL)				
TRENCH	LENGTH	INVERT	INTO BOTTOM OF TRENCH	EXISTING GROUND
1	50'	508.42	504.92	511.92
2	50'	508.57	505.07	512.07
3	50'	507.74	504.24	511.24

WELL LOCATION CERTIFICATION:
THE EXISTING WELL SHOWN ON THIS PLAN (NO-95-2857) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.



INITIAL SYSTEM
TRENCH DETAIL
NOT TO SCALE



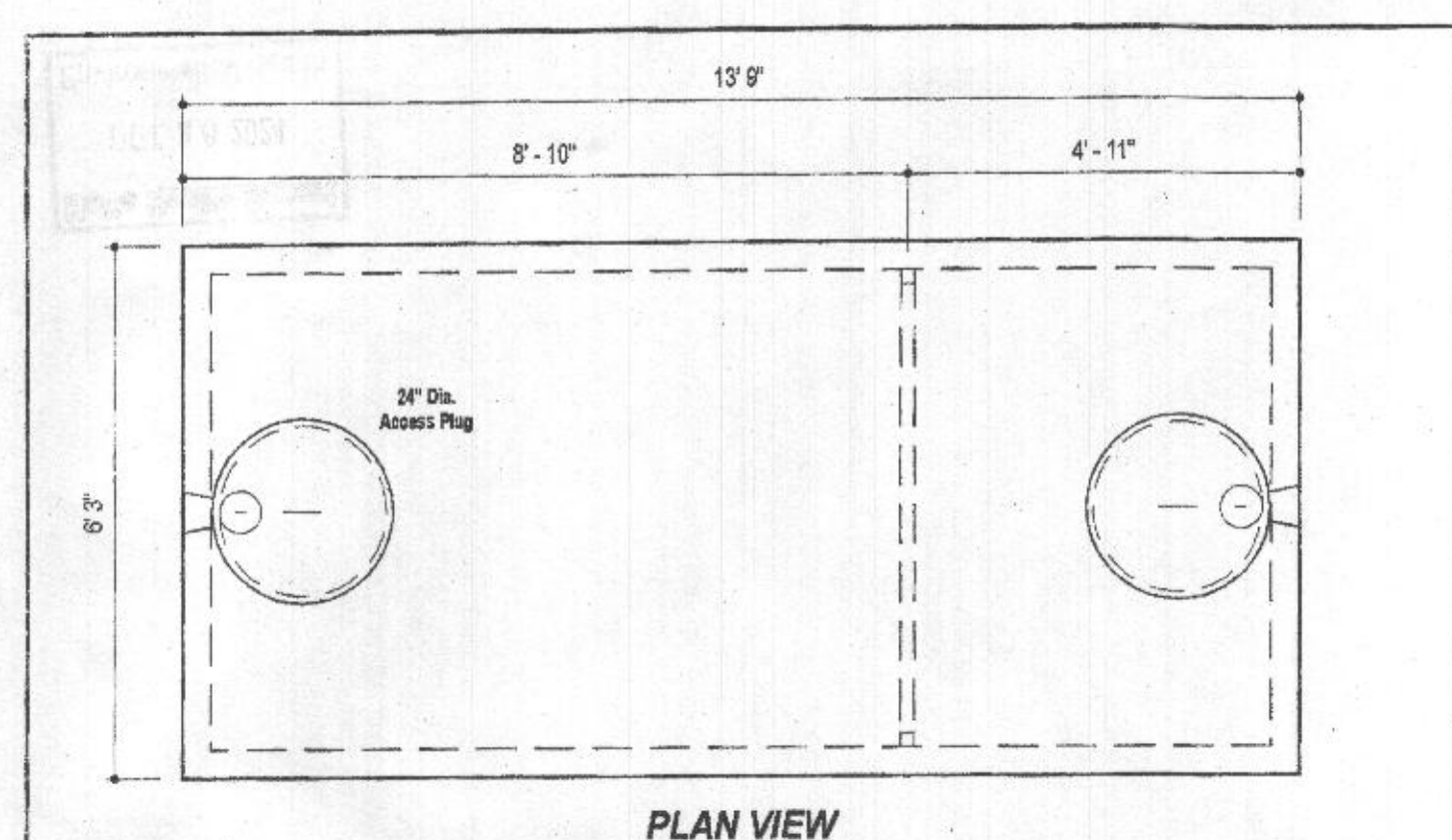
1ST & 2ND REPLACEMENT
TRENCH DETAIL
NOT TO SCALE

SYSTEM CALCULATIONS:

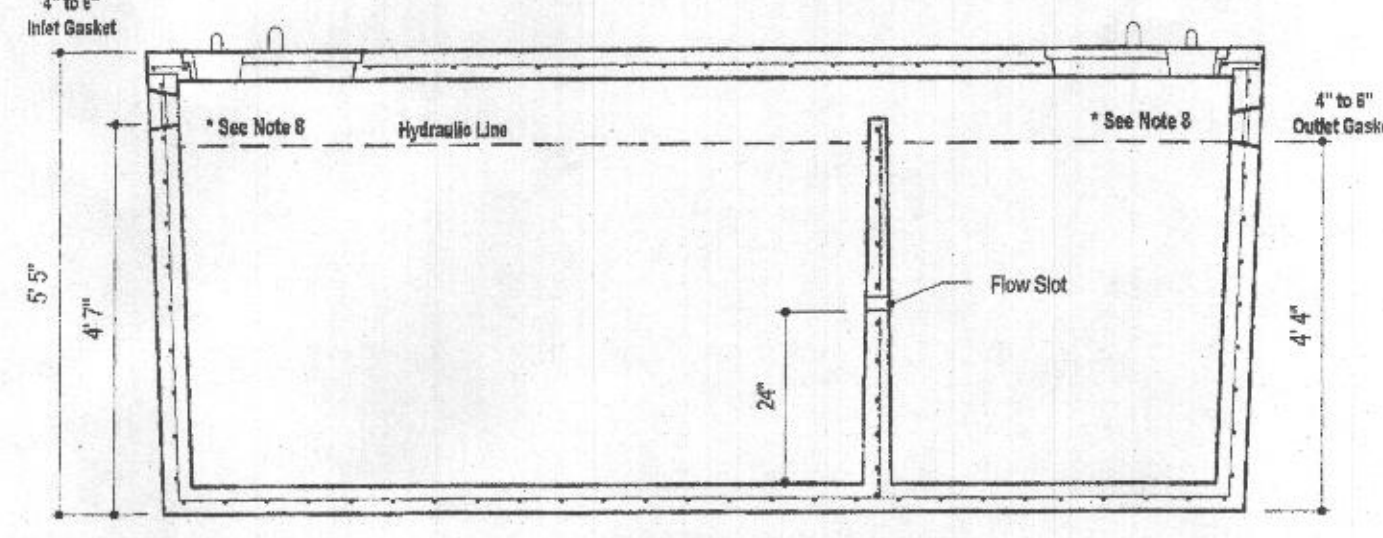
INITIAL SYSTEM:
6 BEDROOMS AT 900gpd / 1.2 ABSORPTION RATE = 750 SQ. FT.
750 SQ. FT. / 2 (TRENCH WIDTH) x 40 (SIDEWALL REDUCTION) = 150 LINEAR FEET
150 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
(3 TRENCHES OF 50' IN LENGTH)

FIRST REPLACEMENT SYSTEM:
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150 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
(3 TRENCHES OF 50' IN LENGTH)

SECOND REPLACEMENT SYSTEM:
6 BEDROOMS AT 900gpd / 1.2 ABSORPTION RATE = 750 SQ. FT.
750 SQ. FT. / 2 (TRENCH WIDTH) x 40 (SIDEWALL REDUCTION) = 150 LINEAR FEET
150 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
(3 TRENCHES OF 50' IN LENGTH)



PLAN VIEW



SECTION A-A

DESIGN DATA & GENERAL NOTES

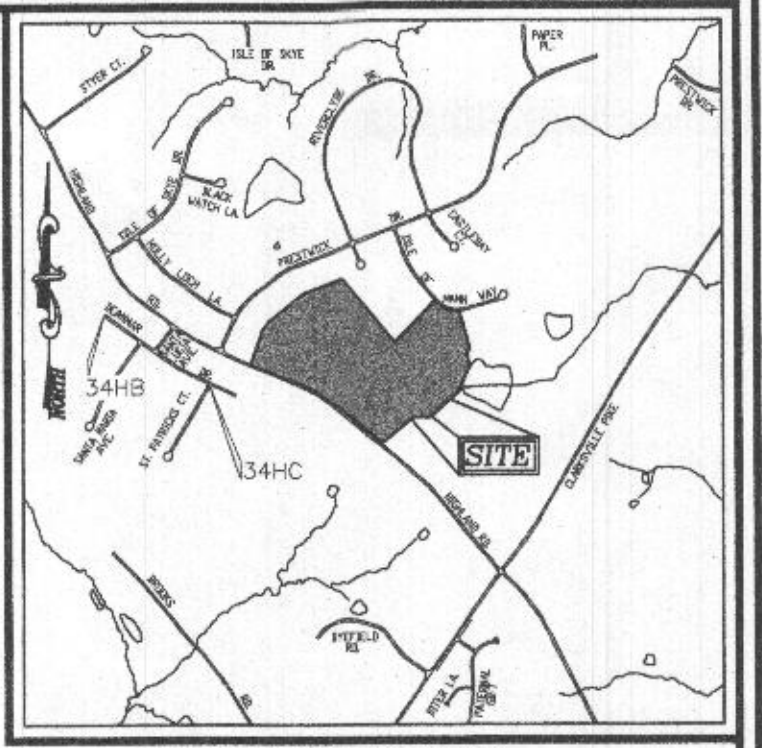
- Concrete strength F_{cm} 4000 p.s.i. @ 28 days. Density = 150 pcf.
- Concrete - Reinforced Type III per ASTM C 150-02.
- Admixtures & plasticizers per ASTM C 200-05 & C 494-02.
- Reinforcing per ASTM A 108. Min. 5-02" cover.
- Top slab finished with buff/rose enamel.
- 4" wall, 4" base, & 8" top thickness.
- Max 2" of cover.
- Depending on use of tank, Inlet & Outlet baffles may be required by code.

2,000 GALLON SEPTIC TANK
2-Compartment
Stock Item [Approx. 19,900 lbs]

Dwg. No. 2000-2C No Scale Aug 11, 2008

MBI
Mayer Bros., Inc. www.mbrbroscast.com

6204 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1424
Fax. 410.796.1428

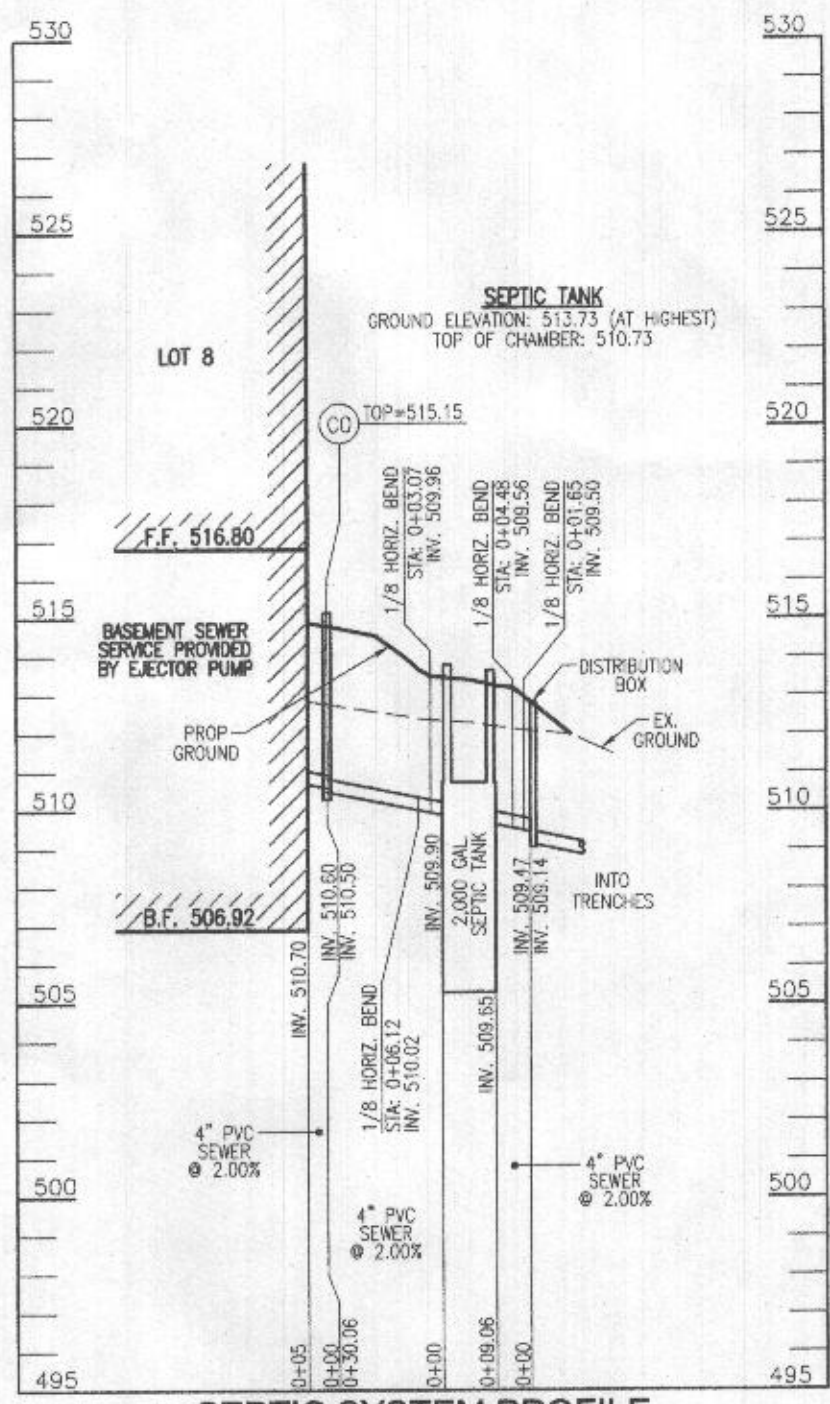


VICINITY MAP
SCALE 1"=2000'
ADC MAP COORDINATE: 31, A5

LEGEND:

- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- EXISTING EDGE OF PAVING
- EXISTING UTILITY POLE
- EXISTING FENCE LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING TREES
- PRIVATE VARIABLE WIDTH USE-IN-COMMON ACCESS EASEMENT
- PROP. ALTERNATE WELL LOCATION
- EX. WELL LOCATION
- FAILED PERC. TEST
- PASSED PERC. TEST
- APPROVED SEPTIC AREA

THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA 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 DISPOSAL AREA. RECORDED OF A MODIFIED SEWAGE DISPOSAL AREA SHALL NOT BE NECESSARY.



SEPTIC SYSTEM PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'

- GENERAL 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 EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - THE WELL (NO-95-2857) 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.
 - ADJUSTMENT TO A PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - ADJUSTMENT TO THE PRIVATE SEWAGE DISPOSAL AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
 - THE LOT SHOWN HEREON COMPLES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.

Approved Septic System Plan
Howard County Health Department
Hank Oswald 10/31/24
Signature Date

OWNER/DEVELOPER
JOHN P. MCDANIEL
13032 HIGHLAND ROAD
HIGHLAND, MD 20777
ATTN: MR. JOE RUTTER
(443) 367-0422

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

MCDANIEL PROPERTY - LOT 8
12950 HIGHLAND ROAD
HIGHLAND, MD 20777

BUILDING PERMIT # _____

PLATS: 23440-42
TAX MAP: 34 GRID: 22
5TH ELECTION DISTRICT

PARCEL: 117
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP

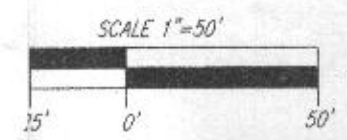
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

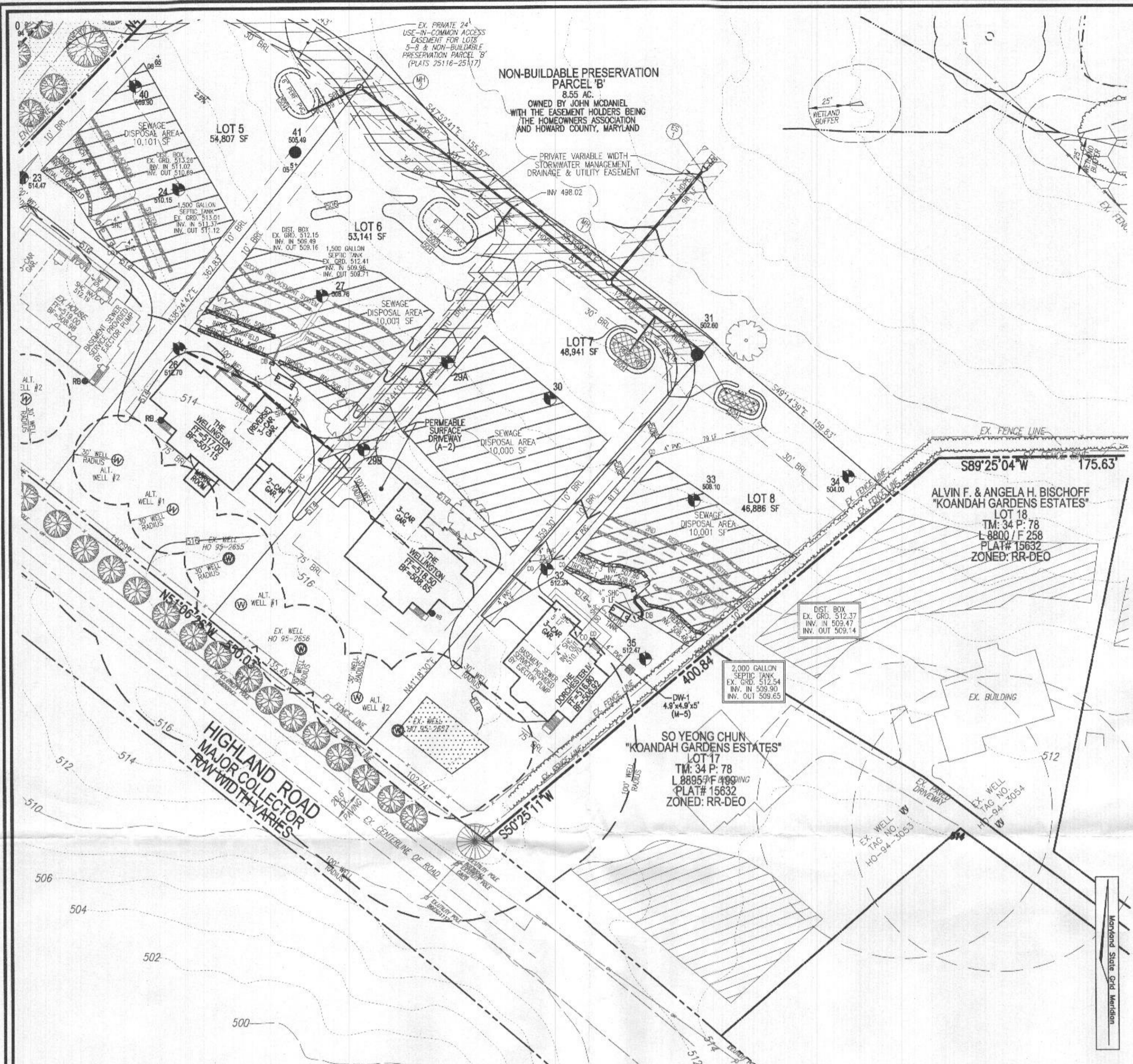
PROFESSIONAL CERTIFICATE

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: OCTOBER 2024
SCALE: AS SHOWN
W.O. NO.: 08-43

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18183, EXPIRATION DATE: 09-27-2028

1 SHEET OF 1





WELL LOCATION CERTIFICATION:
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PLAN VIEW
SCALE: 1"=50'

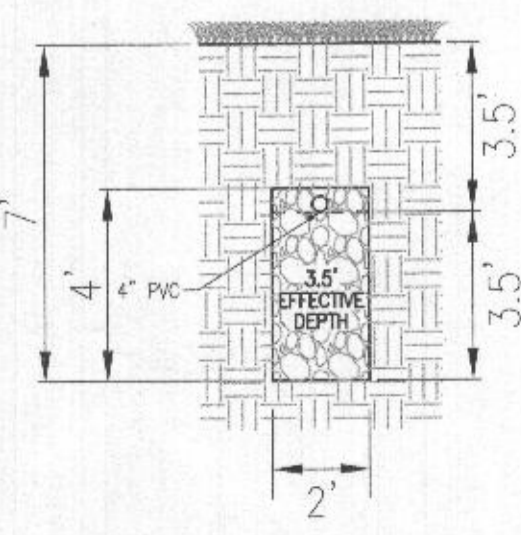
TRENCH INFO. (INITIAL)				
TRENCH	LENGTH	TRENCH	TRENCH	GROUND
1	50'	508.50	505.00	512.00
2	50'	508.48	504.98	511.98
3	50'	507.86	504.36	511.36

SYSTEM CALCULATIONS:

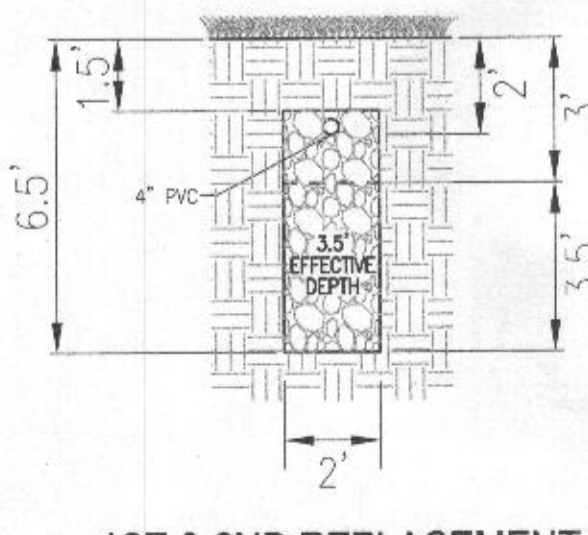
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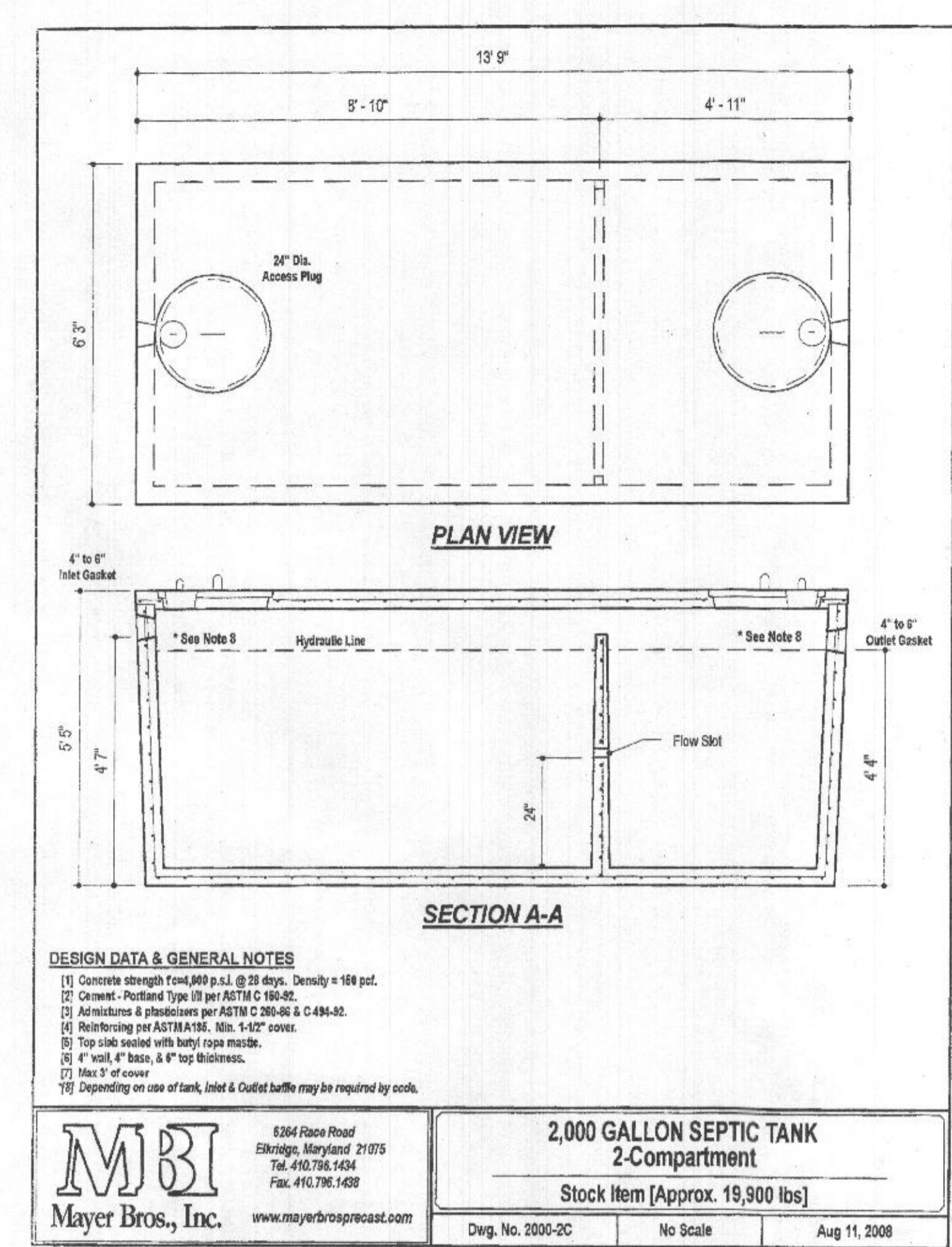
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NOT TO SCALE



1ST & 2ND REPLACEMENT TRENCH DETAIL
NOT TO SCALE

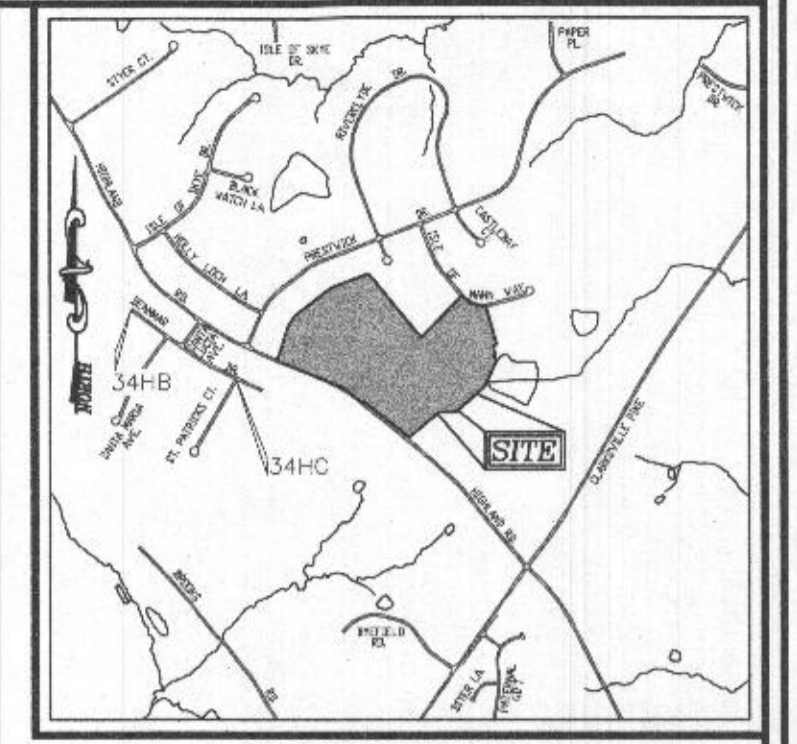


DESIGN DATA & GENERAL NOTES

- Concrete strength Fc=4,000 p.s.i. @ 28 days. Density = 150 pcf.
- Reinforcing steel per ASTM A601.
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- Top slab sealed with butyl rope mastic.
- 4" wall, 4" base, & 4" top thickness.
- 1/2" dia. of cover.
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MBI
Mayer Bros., Inc.
8364 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438
www.mayerbrosproceed.com

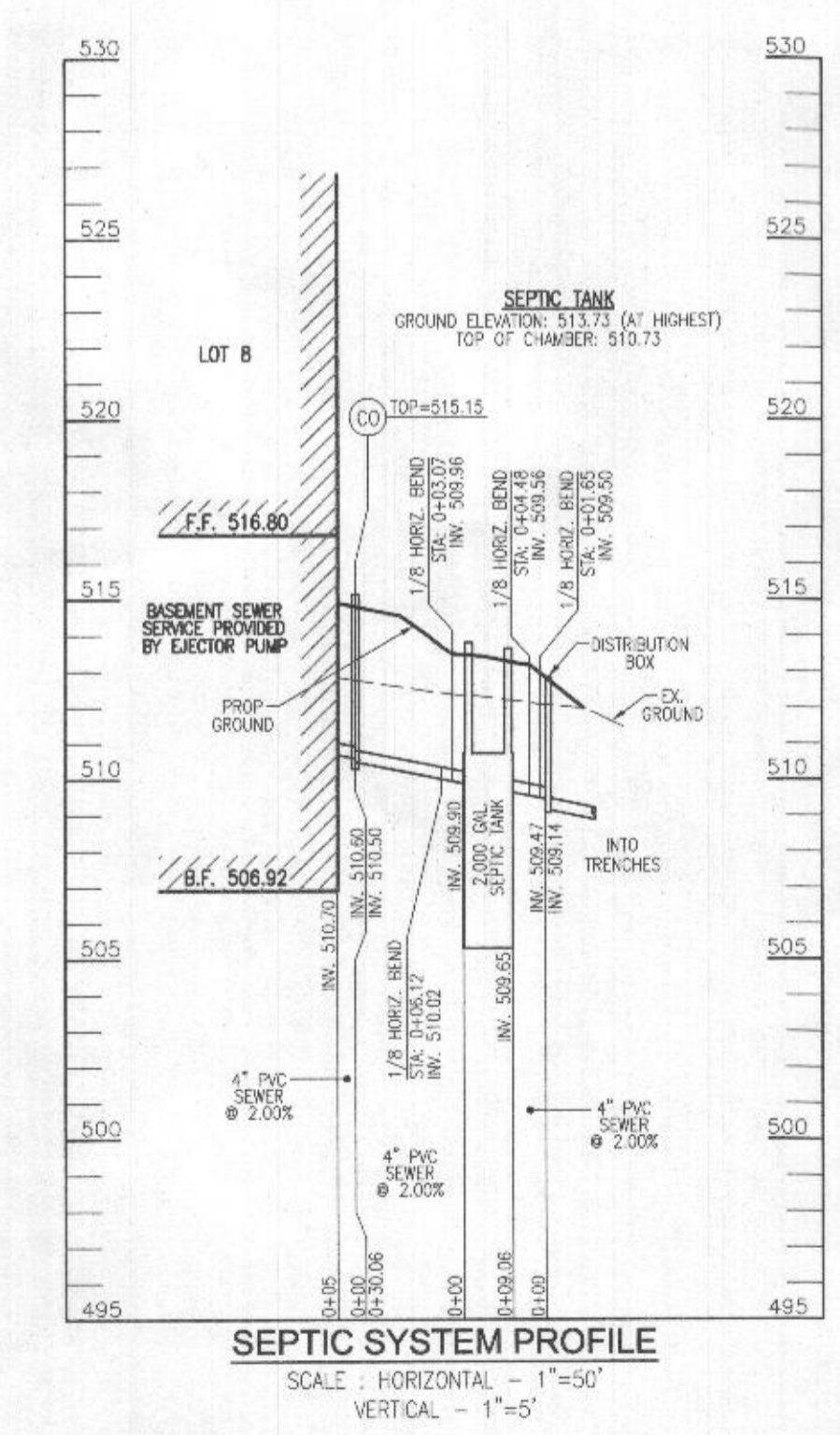
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2-Compartment
Stock Item [Approx. 19,900 lbs]
Dwg. No. 2000-2C No Scale Aug 11, 2008



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SCALE: 1"=200'
ADC MAP COORDINATE: 31, A5

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JOHN P. MCDANIEL
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HIGHLAND, MD 20777
ATTN: MR. JOE RUTTER
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ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

MCDANIEL PROPERTY - LOT 8
12950 HIGHLAND ROAD
HIGHLAND, MD 20777

BUILDING PERMIT # _____

PLATS: 23440-42 TAX MAP: 34 GRID: 22 5TH ELECTION DISTRICT

PARCEL: 117 ZONED: RR-DEO HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

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. 18183 EXPIRATION DATE: 09-27-2028

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