



NOTICE TO SEPTIC INSTALLER

RE: ENGINEERED SEPTIC SYSTEM PERMIT INSTALLER RESPONSIBILITIES, BIDDING & NOTIFICATION REQUIREMENTS

Dear Sir or Madam:

Please be advised of the following *installer responsibilities and requirements* associated with bidding and/or installing the enclosed engineered septic system per the approved SCDHEC Septic Permit to Construct and associated approved drawings, specifications and soils report.

1. **INSTALLER MUST NOTIFY ONSITE SEPTIC ENGINEERING (OSE) 1 WEEK (5 BUSINESS DAYS MIN.) PRIOR TO START OF INSTALLATION TO SCHEDULE PRE-CONSTRUCTION MEETING AND CONSTRUCTION OBSERVATIONS.**
 - a. **PRE-CON MEETING AND OBSERVATION SCHEDULING CONTACT:**
PHONE: 843-860-6158
EMAIL: construction@onsitesepticengineering.com
**MEETINGS AND OBSERVATIONS ARE AVAILABLE MONDAY-FRIDAY
8AM-5PM ONLY**
2. **WORK MAY NOT COMMENCE PRIOR TO ISSUANCE OF AN SCDHEC PERMIT TO CONSTRUCT AND ONSITE SEPTIC ENGINEERING (OSE) NOTIFICATION**
3. **WORK COMMENCED PRIOR TO OSE NOTIFICATION WILL NOT BE CERTIFIED AND/OR ACCEPTED**
 - a. **NOTE: PROJECT PHOTOS ARE NOT ACCEPTABLE ALTERNATIVES TO OSE NOTIFICATION AND OBSERVATIONS.**
4. **ALTERNATIVE PRODUCTS, TANKS, TREATMENT SYSTEMS WILL NOT BE APPROVED IN THE FIELD AND MUST BE APPROVED IN WRITING PRIOR TO THE START OF INSTALLATION. FAILURE OF THE INSTALLER TO NOTIFY THE ENGINEER OF THE INTENT TO USE ALTERNATIVE PRODUCTS, OTHER THAN THOSE STRICTLY SPECIFIED ON THE ENCLOSED PERMITTED DRAWINGS WILL RESULT IN VOIDING THE ENCLOSED PERMIT.**
5. **ENGINEER ASSUMES NO LIABILITY FOR ALTERNATIVE PRODUCTS INSTALLED IF NOT APPROVED IN WRITING PRIOR TO INSTALLATION AND WILL NOT CERTIFY INSTALLATION OF ANY UNAUTHORIZED SUBSTITUTIONS.**
6. **ALL PRE-TREATMENT, DRIP TUBE SYSTEMS MUST BE INSTALLED BY AN ONSITE SEPTIC ENGINEERING CERTIFIED INSTALLER.**

7. ANY FIELD DEVIATIONS FROM THE PERMITTED SEPTIC PLANS MUST BE APPROVED IN WRITING PRIOR TO THE COMMENCEMENT OF WORK.

Thank you for your commitment to quality workmanship and your interest in this project, please contact us with any questions or concerns.

Regards,

The Onsite Septic Engineering Team

construction@onsitesepcticengineering.com

843-860-6158

104 Broughton Rd, Suite A

Moncks Corner, SC 29461



**PERMIT TO CONSTRUCT
Onsite Wastewater System**

File Nbr: 2022040023
County: Charleston

Name: Patrick Eves c/o CPR Engineering Solutions, LLC		Program Code: 362
Type Facility: 4 Bedroom House	Address: PO Box 67	System Code: 611
Subdivision:	Pinopolis, SC 29469	Water Supply: Private
Block: Lot: 3	Site: Doar Rd.	
TM#: 701-00-00-032 (a portion of)	Awendaw, SC 29429	

PERMIT TO CONSTRUCT SYSTEM SPECIFICATIONS

See engineered system design and supporting documentation.

SPECIAL INSTRUCTIONS/CONDITIONS

THIS PERMIT IS SITE SPECIFIC. ANY CHANGES TO THE SYSTEM MUST BE APPROVED BY DHEC. ALTERNATIVE TRENCH PRODUCTS APPROVED UNDER STATE RULES AND REGULATIONS MAY BE SUBSTITUTED. ANY UNAPPROVED CHANGES WILL VOID THIS PERMIT.

This Permit To Construct and Operate is issued pursuant to the SCDHEC Specialized Onsite Wastewater Systems for Peak Flows less than 1500 GPD.

Issuance of this Specialized Onsite Wastewater System Permit To Construct does not relinquish the property owner of responsibility in attaining any and all necessary approvals or permits required to develop this property.

PERMIT TO CONSTRUCT

The Permit To Construct is issued upon the system design, certification, and other supporting documentation as required by this standard and supplied by:

CPR Engineering Solutions, LLC

(Engineering Company)

Caleb P. Rodgers, PE

(Consulting Engineer)

Randall K Fowler

(Soil Classifier)

SC No. 32006

(State and License Number)

SC No. 38

(State and License Number)

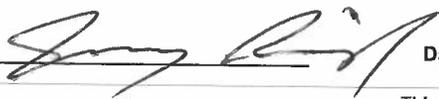
04/08/2022

(Plan Date)

21-537-3-RD

(Project Number)

Any Permit To Construct and Operate that is issued pursuant to this Standard shall be based upon the consulting engineer's design, certification, and other supporting documentation.

Reviewed By: Jeremy Bishop  Date: 05/03/2022

DHEC 1781 (01/2014)

This Permit will Expire and Become Null and Void Five (5) Years from the Issuance Date.

This Permit is Appealable Under the Administrative Procedures Act. There may be an Additional Fee for Changes in this Permit that Require a Site Reevaluation.



APPROVAL TO OPERATE

Onsite Wastewater System

File Nbr: 2022040023

County: Charleston

Name: Patrick Eves c/o CPR Engineering Solutions, LLC

Program Code: 362

Type Facility: 4 Bedroom House

Address: PO Box 67

System Code: 611

Subdivision:

Pinopolis, SC 29469

Water Supply: Private

Block: Lot: 3

Site: Doar Rd.

TM#: 701-00-00-032 (a portion of)

Awendaw, SC 29429

ACTUAL INSTALLATION

The Final Approval is issued upon the system certified "as built" plan of the actual installation, and other supporting documentation as required by this standard and supplied by the Consulting Engineer.

FINAL APPROVAL

(Consulting Engineer)

(State and License Number)

(Plan Date)

(Project Number)

(As Built Date)

The consulting engineer shall be responsible for supervising construction of the system and providing SCDHEC with a certified "as built" plan of the actual installation. Any Final Approval that is released pursuant to this Standard shall be based upon this engineering certification.

Comments:

Licensed Installer

Printed Name _____

License # _____

I hereby certify the system was installed in accordance with the referenced permit and R.61-56.

Licensed Installer Signature _____

Date _____

APPROVED TO PLACE INTO OPERATION

THIS CERTIFICATE OF FINAL APPROVAL IN NO WAY GUARANTEES THE LIFE OF THE SYSTEM OR THAT IT WILL FUNCTION PROPERLY UNDER ANY OR ALL CONDITIONS. ANY PERMIT TO CONSTRUCT AND OPERATE THAT IS ISSUED PURSUANT TO THIS STANDARD SHALL BE BASED UPON THE CONSULTING ENGINEER'S DESIGN CERTIFICATION AND OTHER SUPPORTING DOCUMENTATION.

Reviewed By: _____

Date: _____

DHEC 1781 (01/2014)

PROJECT OVERVIEW:

THE PROPOSED SANITARY SEWER FOR THE SUBJECT 4 BEDROOM HOME WILL GRAVITY FLOW TO A NEW 1,000 GALLON SEPTIC TANK, WHICH WILL FEED A 1000 GALLON PUMP CHAMBER WITH EFFLUENT PUMP. EFFLUENT WILL BE DISCHARGED TO THE ENGINEERED SEPTIC SYSTEM TO BE INSTALLED NORTH WEST OF THE PROPOSED STRUCTURE AND TANK LOCATION, PER THE ENCLOSED PLANS.

REPAIR AREA WILL BE TO THE NORTH EAST OF THE PROPOSED DRAIN FIELD LOCATION.

THIS SPECIALIZED SYSTEM HAS BEEN DESIGNED FOR AN L_{TAR} OF 0.80, REFERENCING THE PROVIDED SOILS REPORT TITLED "DOAR ROAD LOT 3" BY RANDALL K. FOWLER DATED MARCH 24, 2022. THE SYSTEM, INSTALLED PER THE ENCLOSED DESIGN, WILL FUNCTION AS INTENDED AND MEET OR EXCEED ALL REQUIREMENTS OF SCDHEC REGULATION 61-56, STANDARD 610.

GENERAL NOTES:

- THESE DRAWINGS INDICATE A GENERAL SCOPE OF WORK AND MAY NOT DESCRIBE THE ENTIRE EXTENT OF WORK REQUIRED FOR PROJECT COMPLETION. CONTRACTOR AND OWNER ARE RESPONSIBLE FOR ALL LABOR, MATERIALS, SUPERVISION, UNSPECIFIED MATERIAL SELECTION, ADHERENCE TO SCDHEC AND LOCAL STANDARDS, AND QUALITY CONTROL.
- CONSTRUCTION SHALL CONFORM TO SCDHEC SPECIFICATIONS
- CONSTRUCTION SHALL BE PERFORMED BY A LICENSED SEPTIC INSTALLATION CONTRACTOR
- ALL ELECTRICAL AND PLUMBING WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS
- OWNER/CONTRACTOR TO PROVIDE ADEQUATE BARRIERS AROUND PERIMETER OF SEPTIC SYSTEM TO PREVENT VEHICLE PARKING AND TRAFFIC.
- INSTALLATION OF DRAINAGE SWALES, DITCHES, DIVERSION DRAINS, OR RAIN GUTTERS MAY BE REQUIRED TO DIVERT OR INTERCEPT WATER AWAY FROM THE ONSITE WASTEWATER SYSTEM LOCATION. THE SEPTIC TANK(S) AND TILE FIELD AREA SHALL BE BACKFILLED AND SHAPED TO PROMOTE POSITIVE DRAINAGE.
- TRENCH SUB-GRADE SHALL BE LEVEL ALONG ITS LENGTH.
- USDA NRCS CLASS I FILL SAND (LESS THAN 10% FINES) SHALL BE USED TO FILL CUT AND AREA SURROUNDING TRENCHES.
- TRENCH AGGREGATE SHALL BE GRANITE OR APPROVED ALTERNATE TO MEET SCDHEC SPECIFICATIONS.
- BASE OF TRENCH TO MAINTAIN 8" MINIMUM OFFSET FROM ZOS/SHWT.
- WELL SYSTEMS, IF REQUIRED, SHALL BE INSTALLED MINIMUM OF 75' FROM SEPTIC SYSTEM
- THE PROPOSED SEPTIC SYSTEM, INSTALLED PER ENCLOSED DESIGN AND OWNER/SOIL CLASSIFIER'S PROVIDED LOCATION, IS NOT BEING INSTALLED IN WETLANDS. OWNER/CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CHANGE IN SITE CONDITIONS.
- UPON COMPLETION OF CONSTRUCTION AN AS-BUILT, CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER, MUST BE SUBMITTED TO SCDHEC.
- CONSTRUCTION SHALL BE OBSERVED BY A REGISTERED PROFESSIONAL ENGINEER.

OPERATION & MAINTENANCE:

SEPTIC TANK: THE SEPTIC TANK SHALL BE PUMPED AT LEAST ONCE EVERY TWO YEARS BY A LICENSED SEPTIC CONTRACTOR. PUMPING SCHEDULE MAY BE ADJUSTED BASED UPON SITE SPECIFIC CONDITIONS.

PUMPING IS NECESSARY WHEN SOLIDS ARE OBSERVED BETWEEN ONE-THIRD AND ONE-HALF THE HEIGHT OF THE TANK. SEPTIC CONTRACTOR SHALL BE CONTACTED TO INSPECT THE SOLIDS LEVEL AND PUMP SOLIDS. INSPECTOR SHALL NOTE THE FOLLOWING AND RECOMMEND PUMPING WHEN THE THE BOTTOM OF THE SCUM LAYER IS WITHIN 6 INCHES OF THE OUTLET TEE AND/OR WHEN THE TOP OF THE SLUDGE LAYER IS WITHIN 12 INCHES OF THE OUTLET TEE.

DRAIN FIELD: DRAIN FIELD SHALL BE INSPECTED ONCE EVERY 6 MONTHS FOR AT LEAST THE FIRST YEAR OF OPERATION BY A LICENSED SEPTIC CONTRACTOR TO ENSURE IT IS FUNCTIONING ADEQUATELY. THE INSPECTION SCHEDULE CAN BE ADJUSTED BY THE LICENSED CONTRACTOR AFTER THE FIRST YEAR, DEPENDENT UPON SITE SPECIFIC CONDITIONS.

PUMP: PUMP SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS AND SHALL BE SERVICED AS NEEDED DURING THE LIFE OF THE PUMP. ZOELLER PUMPS ARE DESIGNED WITH A 7-10 YEAR LIFE SPAN, DEPENDENT UPON SITE SPECIFIC CONDITIONS, REPLACE AS NECESSARY (BY A QUALIFIED SEPTIC CONTRACTOR).

*ALL INSPECTION AND PUMPING RECORDS SHALL BE MAINTAINED ON SITE BY THE OWNER.

DESIGN SUMMARY:

L_{TAR}= 0.80 PER SOIL CLASSIFICATION REPORT BY RANDALL K. FOWLER DATED MARCH 24, 2022

ZONE OF SATURATION= 0" (AT EXISTING GRADE)

BEDROOMS= 4 BEDROOM TOTAL

DESIGN FLOWRATE= 480 GPD TOTAL (120 GAL/DAY/BEDROOM REF. R.61-56 APP. R)

TRENCH WIDTH= 9 FT (EA.)

AGGREGATE DEPTH AND TYPE= 9" GRANITE AGGREGATE OR ENGINEER APPROVED ALTERNATE PER SCDHEC SPECIFICATIONS

TOTAL MIN. REQUIRED SYSTEM LENGTH= 110 LF

DESIGN SYSTEM LENGTH= 120 LF, (2) TRENCHES AT 60 LF

(3) EA. 4" DIAMETER PERFORATED DRAIN TILE PIPES TYPICAL EACH TRENCH PER SCDHEC SPECS (NO SLOTTED PIPE)

SEPTIC TANK SELECTION= 1000 GALLON SINGLE PIECE BY KNIGHTS SEPTIC OR ROTH TANKS OR APPROVED EQUAL. CONTRACTOR SHALL SUBMIT ALTERNATE SPECIFICATION FOR ENGINEER APPROVAL IF DESIRED.

PUMP CHAMBER SELECTION= (IF REQUIRED) 1000 GALLON SINGLE PIECE BY KNIGHTS SEPTIC OR ROTH TANKS OR APPROVED EQUAL. CONTRACTOR PROPOSED ALTERNATIVES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.

PUMP SELECTION (IF APPLICABLE)= INSTALL A MIN. 1/4 H.P. ZOELLER MODEL M53/M55 SIMPLEX SYSTEM OR APPROVED EQUAL. CONTRACTOR PROPOSED ALTERNATIVES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL. INSTALL PER MANUFACTURER SPECIFICATIONS.

PROJECT NAME: EVES – 7857 DOAR ROAD (LOT 3)

PROJECT LOCATION: 7857 DOAR ROAD
 AWENDAW, SC 29429
 CHARLESTON COUNTY, SC
 TMS: 701-00-00-032 (PART OF)

WATER SUPPLY: PRIVATE WELL

*MAINTAIN 75' MIN. OFFSET FROM SEPTIC

INSTALLER MUST CONTACT ONSITE SEPTIC ENGINEERING TO SCHEDULE PRE-CONSTRUCTION MEETING AND CONSTRUCTION OBSERVATIONS PRIOR TO INSTALLATION

SHEET LIST TABLE

SHEET	DRAWING NUMBER	SHEET TITLE
S100	21-537-3-RD-0	GENERAL NOTES & DESIGN CRITERIA
S200	21-537-3-RD-1	SEPTIC SITE PLAN
S300	21-537-3-RD-2	SEPTIC SYSTEM SECTION
S400	21-537-3-RD-3	SEPTIC TANK SECTION & DETAILS



VICINITY MAP
 N.T.S.

CLIENT:
 MR. PATRICK EVES
 PEVES789@GMAIL.COM

THIS DRAWING SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION

PO BOX 67 FLORENCE, SC 29489

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REV.	DATE	DESCRIPTION	DES. ENG.
A	4/8/22		

DESIGN SUPERVISOR	CALEB P. RODGERS, P.E.
DES. ENG.	CPR
DRAFTER	KM
DATE	4/8/2022
FILE	C:\31 SEPTIC\ENGINEERING SOLUTIONS\2022\21-537-3-RD AS SHOWN

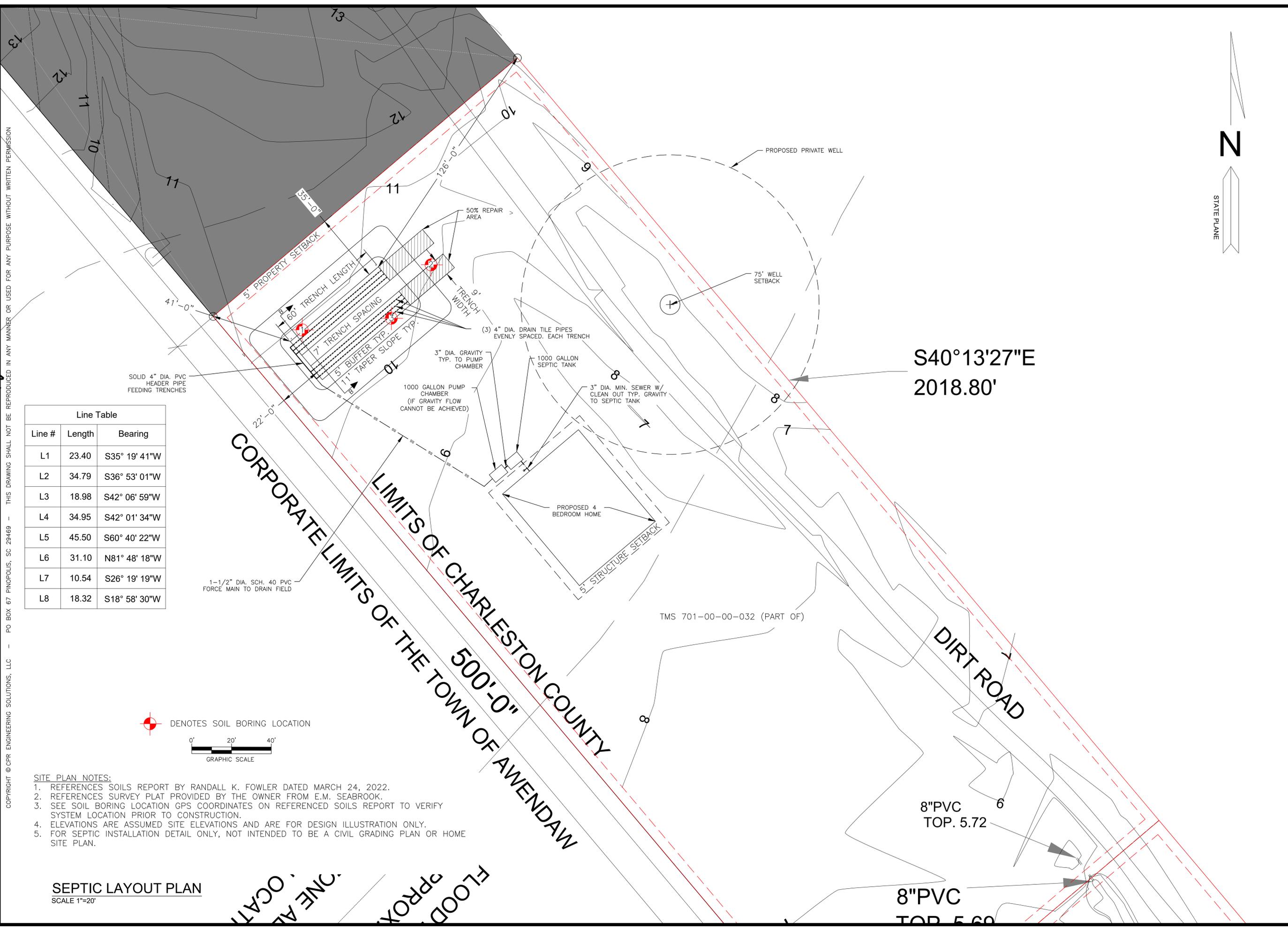
EVES RESIDENCE – 7857 DOAR ROAD (LOT 3) SEPTIC
 GENERAL NOTES & DESIGN CRITERIA

DWG. NO.
 21-537-3-RD-0

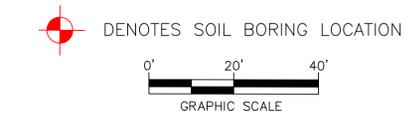
SHEET

S100

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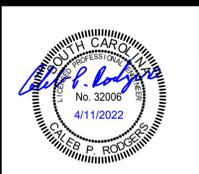
Line Table		
Line #	Length	Bearing
L1	23.40	S35° 19' 41"W
L2	34.79	S36° 53' 01"W
L3	18.98	S42° 06' 59"W
L4	34.95	S42° 01' 34"W
L5	45.50	S60° 40' 22"W
L6	31.10	N81° 48' 18"W
L7	10.54	S26° 19' 19"W
L8	18.32	S18° 58' 30"W



- SITE PLAN NOTES:**
1. REFERENCES SOILS REPORT BY RANDALL K. FOWLER DATED MARCH 24, 2022.
 2. REFERENCES SURVEY PLAT PROVIDED BY THE OWNER FROM E.M. SEABROOK.
 3. SEE SOIL BORING LOCATION GPS COORDINATES ON REFERENCED SOILS REPORT TO VERIFY SYSTEM LOCATION PRIOR TO CONSTRUCTION.
 4. ELEVATIONS ARE ASSUMED SITE ELEVATIONS AND ARE FOR DESIGN ILLUSTRATION ONLY.
 5. FOR SEPTIC INSTALLATION DETAIL ONLY, NOT INTENDED TO BE A CIVIL GRADING PLAN OR HOME SITE PLAN.

SEPTIC LAYOUT PLAN
SCALE 1"=20'

S40°13'27"E
2018.80'



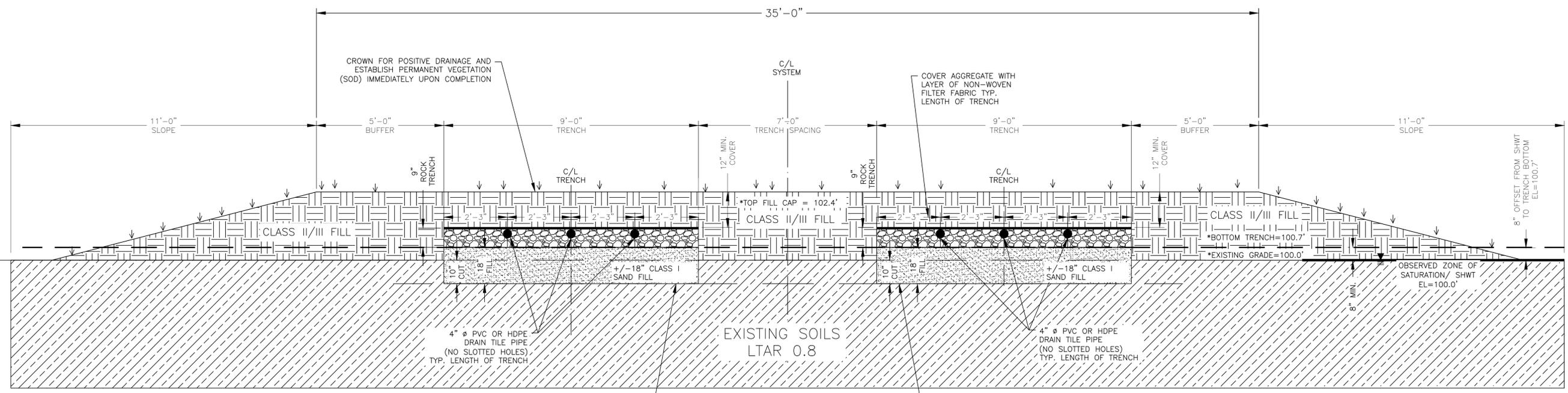
Onsite Septic Engineering
CALEB P. RODGERS, P.E.
CALEB@ONSITESEPTICENGINEERING.COM
WWW.ONSITESEPTICENGINEERING.COM
843-860-3293

REV.	DATE	DESCRIPTION	DES. ENG.
A	4/8/22	RELEASED FOR PERMIT	

DESIGN SUPERVISOR	CALEB P. RODGERS, P.E.
DES. ENG.	CPR
DRAFTER	KM
DATE	4/8/2022
FILE	C:\31 SEPTIC\ON SITE SOLUTIONS\PROJECTS\2022\2022-537-3-RD - EVES - 7857 DOOR ROAD
CHECKED	CHECKER
CHECKED	CHECKER
SCALE	AS SHOWN
PROJ. NO.	21-537-3-RD

EVES RESIDENCE - 7857 DOOR ROAD (LOT 3) SEPTIC
SEPTIC LAYOUT PLAN
DWG. NO. 21-537-3-RD-1
SHEET **S200**

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DRAIN FIELD SECTION B-B
SCALE N.T.S

***ELEVATION NOTE:** ALL ELEVATIONS ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY CONSTRUCTION ELEVATIONS AND MAINTAIN OFFSETS FROM ZONE OF SATURATION AND CUT DEPTHS SHOWN HEREIN.

****TAPER & SLOPE NOTES:** CONTRACTOR/OWNER TO MAINTAIN 4:1 SLOPE MAX. ON ALL TAPERS TO EXISTING GRADE.



Onsite Septic Engineering
 CALEB P. RODGERS, P.E.
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 843-860-3293

REV.	DATE	DESCRIPTION	DES. ENG.
A	4/8/22	RELEASED FOR PERMIT	CPR

DESIGN SUPERVISOR	CALEB P. RODGERS, P.E.
DES. ENG.	CPR
DRAFTER	KM
DATE	4/8/2022
FILE	C:\PROJECTS\21-537-3-RD\21-537-3-RD.dwg
PROJ. NO.	21-537-3-RD
SCALE	AS SHOWN

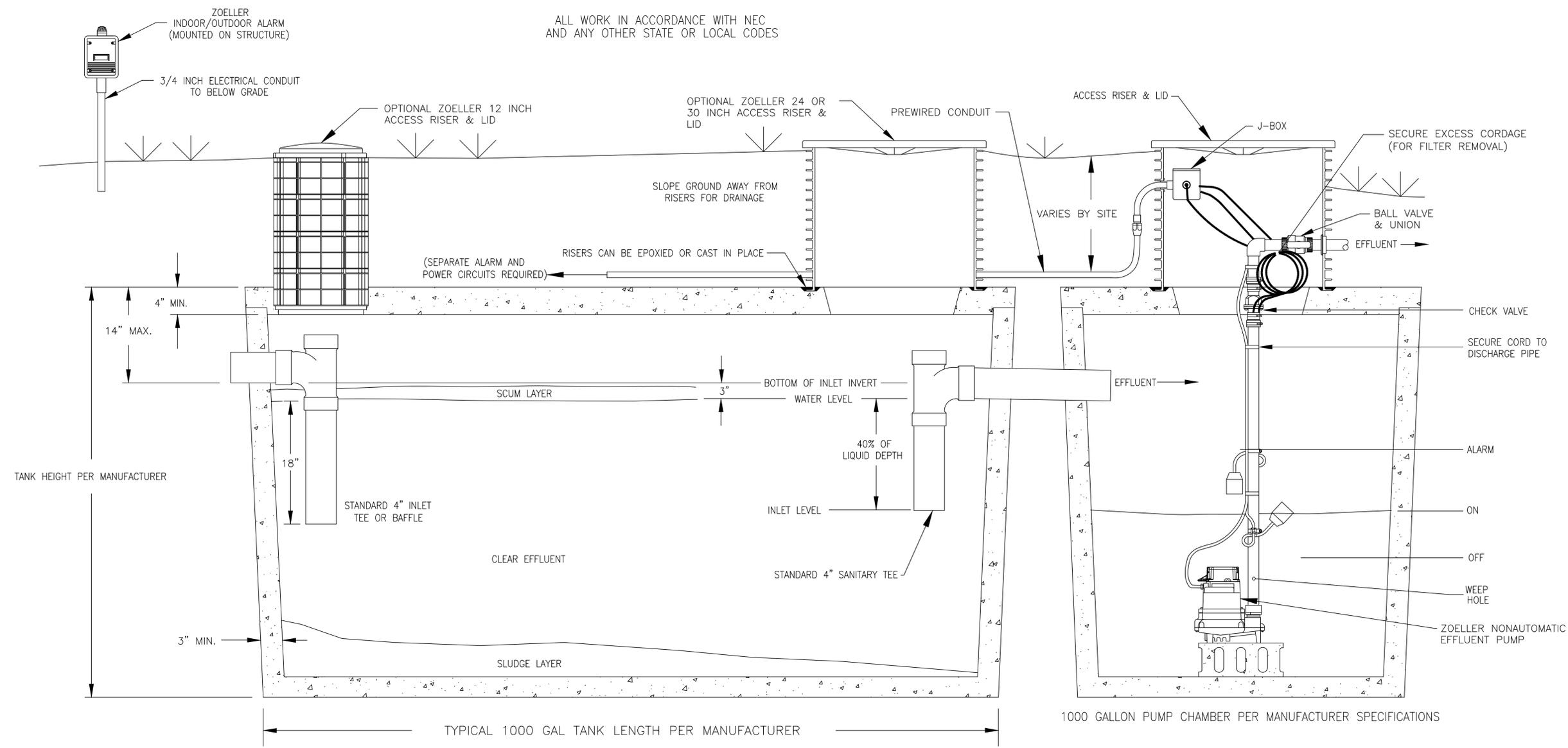
EVES RESIDENCE - 7857 DOAR ROAD (LOT 3) SEPTIC
 SEPTIC SYSTEM SECTION

DWG. NO.
21-537-3-RD-2

SHEET

S300

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ALL WORK IN ACCORDANCE WITH NEC AND ANY OTHER STATE OR LOCAL CODES

(SEPARATE ALARM AND POWER CIRCUITS REQUIRED)

TYPICAL 1000 GAL TANK LENGTH PER MANUFACTURER

1000 GALLON PUMP CHAMBER PER MANUFACTURER SPECIFICATIONS

SEPTIC TANK NOTE: USE APPROVED KNIGHTS OR ROTH SEPTIC & PUMP TANKS PER SPECIFICATIONS (SHEET S100) OR SUBMIT ALTERNATE TO ENGINEER FOR APPROVAL

PUMP NOTES: PUMP AND PUMP FLOAT SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS TO ENSURE MINIMUM 4 MIN. RUN TIME.



Onsite Septic Engineering
 CALEB P. RODGERS, P.E.
 CALEB@ONSITISEPTICENGINEERING.COM
 WWW.ONSITISEPTICENGINEERING.COM
 843-860-3293

REV.	DATE	DESCRIPTION	DES. ENG.
A	4/8/22		
		RELEASED FOR PERMIT	
			CPR

DESIGN SUPERVISOR	CALEB P. RODGERS, P.E.
DES. ENG.	CPR
DRAFTER	KM
DATE	4/8/2022
FILE	SEPTIC ENGINEERING SOLUTIONS LCC\PROJECTS\225193-00 - EVES - 787 DOOR ROAD (LOT 3) SEPTIC
CHECKED	CHEKED
CHECKER	CHEKED
SCALE	AS SHOWN
PROJ. NO.	21-537-3-RD

EVES RESIDENCE - 7857 DOOR ROAD (LOT 3) SEPTIC
 SEPTIC TANK & PUMP CONFIGURATION DETAILS

DWG. NO. 21-537-3-RD-3

SHEET

S400

Soil Report

Doar Road

Lot 3

TMS# 701-00-00-032

Charleston County, South Carolina

Prepared by: Coastal Soil and Wetland Services

Randall K. Fowler, President



The criteria used to determine the zone of seasonal saturation (ZOS) was mostly based on the presence of wetness characteristics. This generally entailed identifying the depth to wetness features as a result of reduction-oxidation processes associated with fluctuating water tables. However, other criteria such as position on the landscape, surface color (estimate of organic carbon), and the experience of the examiner were utilized to obtain the ZOS.

This lot was examined for suitability for a disposal area for an Engineered Onsite Wastewater System (SCDHEC Program 362/Code 610). The following characteristics and conditions were noted on March 21, 2022. This area is nearly level with slopes of 0-0.5%. No apparent water tables were observed.

A ZOS of 0 inches will be used as design criteria. A twelve -inch separation between the ZOS and the bottom of the trenches is recommended. Fill material for the trench area and fill cap will consist of SCDHEC Class 1 material. The upper 10 inches in the drain field area and buffer must be removed and backfilled with Class I material. The fill material must be inspected and approved¹ prior to installation of the system. Class II texture is the most limiting texture in the upper 24 inches and will be utilized for loading rate² (LTAR 0.8 GPD/SF). At the completion of the construction of the drain field/disposal area, the fill material over this area will be immediately seeded and protected with straw or mulch or sodded to establish a permanent vegetative cover. The final grading plan will be designed to remove surface water from the drain field/disposal area.

The soil classification was based on the soil morphology observed within the depth of 24 inches. To ensure an accurate classification would require observations to 60 inches in non-sandy soils. Therefore, it was assumed that the maximum clay percentage did decrease more than twenty percent from its maximum within sixty inches. The classification provided in this report reflects this assumption.

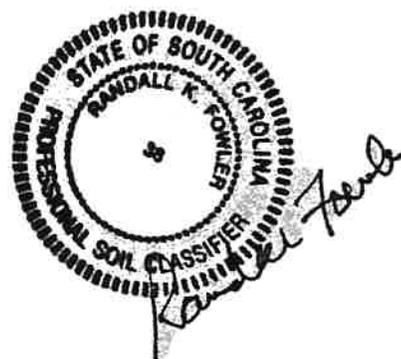
Similar to YEMASSEE soils: (except slightly wetter and less clay content) FINE-LOAMY, SILICEOUS, SEMIACTIVE, THERMIC AERIC ENDOAQUULTS

The data in this report is intended to be used for land use planning purposes as well as supplemental soil data that can be submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) and/or Professional Engineers to assist in the permitting process. The point data contained within this report does not guarantee the denial or issuance of a permit for an on-site wastewater disposal system. The issuance or denial of permits is a decision made by the SCDHEC.

The depth to the zone of seasonal saturation, water table separation, long-term acceptance rate, and the land preparation prescriptions outlined in this report are site condition minimums that must be adhered to in the design and installation of an onsite wastewater disposal system. Any expenses incurred due to deviations from the soil prescriptions outlined in this report that result in system malfunctions or repairs will be the liability of the responsible party.

Should any part of the proposed onsite wastewater system be located in wetlands or waters of the United States, approval from the appropriate permitting agency [i.e., US Army Corps of Engineers, SCDHEC, etc.] must accompany the application for an engineered onsite wastewater system. The determination/verification of the presence of wetlands or waters of the United States is the responsibility of the landowner and is outside of the scope of this soils report.

1. Fill material must be inspected and approved by Randall K. Fowler prior to installation.
2. Long-term acceptance rates (LTAR) are **estimated** using the South Carolina Department of Health and Environmental Control, Bureau of Environmental Health Long Term Acceptance Rate Standard for Onsite Wastewater Systems. Estimates on the acceptance rates are based on soil texture.
3. If none of the following properties are described on the data sheets, this implies that they will not affect LTAR or system design.
 - Properties for Stickiness Class
 - Plasticity Class
 - Structure Class
 - Consistence Class



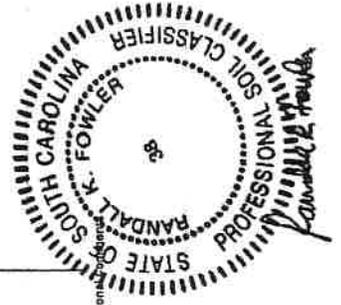
3-21-22

Lot 3, Dear Rd

Checked box indicates no procedures were taken to determine Class, Plasticity Class, Structure Class or Compressive Class that will affect the L IAR or system design.

Test Hole #	Soil Profile	Depth (in.) and Description	Most Limiting Soil Conditions	Depth (in.) and Description	Most Limiting Soil Conditions	Depth (in.) and Description	Additional Comments
1	A 0-8	2.543/1	Free Water	None	None	None	
	E 8-15	2.546/4		7.5425/6	2.546/11	None	
	Bug 15-21	2.546/11		7.5425/6		None	

Test Hole #	Soil Profile	Depth (in.) and Description	Most Limiting Soil Conditions	Depth (in.) and Description	Most Limiting Soil Conditions	Depth (in.) and Description	Additional Comments
2	A 0-10	2.543/1		None	None	None	
	E 10-16	2.546/4		7.5425/6	2.546/11	None	
	Bug 16-24	2.546/11		7.5425/6		None	



CSU052222-041

Lot 3, Doar Rd.

3-21-22

Test Hole # **3** Location Latitude/Longitude: _____

Checked box indicates no properties were found in Stickiness Class, Plasticity Class, Structure Class or Consistence Class that will affect the LTR or *(circle)* **0** *(circle)* **0**

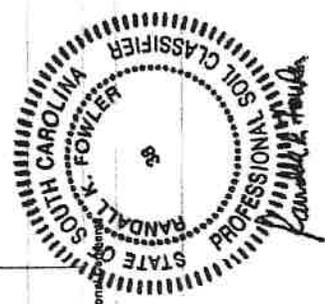
Soil Profile Horizon	Depth (m/ft)	Estimating Soil Saturation		Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Estimating Soil Permeability				Additional Comments
		Moisture Ratio	Moisture Ratio					Texture	Particle Size	Structure	Consistence (Moist)	
A	0-10	2.573/1						LS				
E	10-15	2.576/14	7.5710576					SL				
Bag	15-24	2.576/1	7.5710576					SL				

Most Limiting Soil Conditions	Depth (m) and Description	Most Limiting Soil Conditions	Depth (m) and Description
Zone of Saturation	0.4	Restrictive Horizon	Now
Loading Rate greater than 2	0.8	Overburdened Material	Now

Test Hole # _____ Location Latitude/Longitude: _____

Soil Profile Horizon	Depth (m/ft)	Estimating Soil Saturation		Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Estimating Soil Permeability				Additional Comments
		Moisture Ratio	Moisture Ratio					Texture	Particle Size	Structure	Consistence (Moist)	

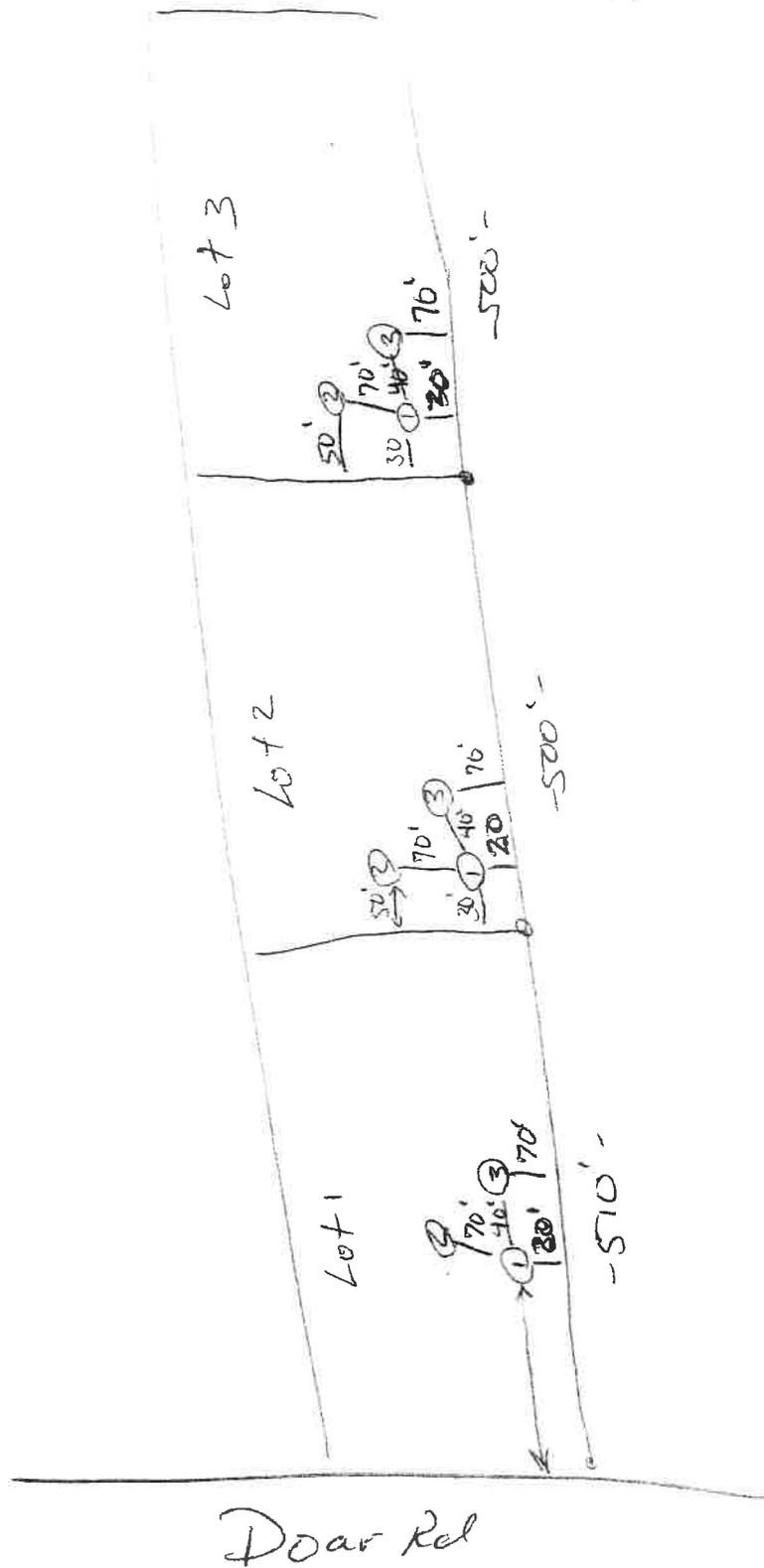
Most Limiting Soil Conditions	Depth (m) and Description	Most Limiting Soil Conditions	Depth (m) and Description
Zone of Saturation		Restrictive Horizon	
Loading Rate greater than 2		Overburdened Material	

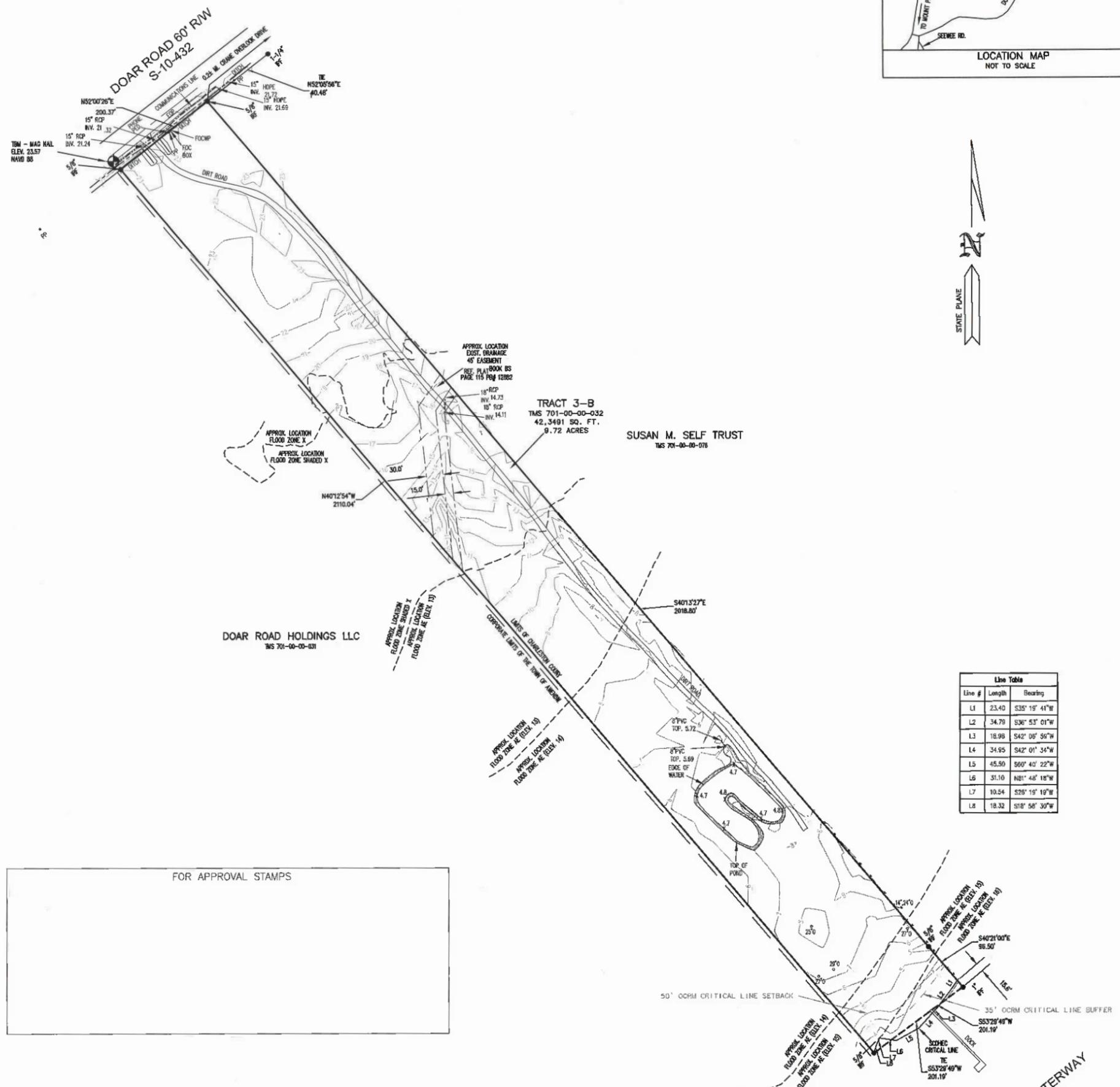
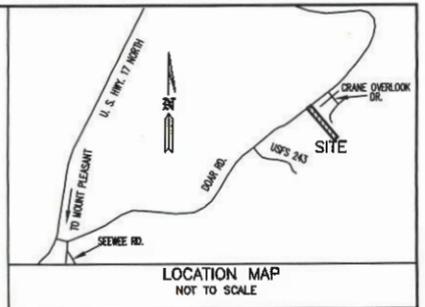


7657 2nd Road
Aurora, SC

TMS# 701-00-00-032

CSUS 2022-041





Line #	Length	Bearing
L1	23.40	S35° 15' 41" W
L2	34.79	S36° 53' 01" W
L3	18.98	S42° 08' 50" W
L4	34.95	S42° 01' 34" W
L5	45.50	S60° 40' 22" W
L6	31.10	N81° 48' 18" W
L7	10.54	S28° 19' 19" W
L8	18.32	S18° 58' 30" W

FOR APPROVAL STAMPS

ZONING:
 THIS PROPERTY IS ZONED AGR (WATERFRONT DEVELOPMENT STANDARDS).
 MAXIMUM DENSITY 1 DWELLING UNIT PER ACRE
 MINIMUM LOT AREA 1 ACRE
 MINIMUM LOT WIDTH 125 FEET
 MINIMUM LOT WIDTH AVERAGE 150 FEET
 MINIMUM SETBACKS:
 FRONT/STREET SIDE 50 FEET
 REAR 30 FEET
 INTERIOR SIDE 15 FEET
 WETLAND, WATERWAY & OCRM CRITICAL LINE BUFFER 35 FEET
 WETLAND, WATERWAY & OCRM CRITICAL LINE SET BACK 50 FEET
 MAXIMUM BUILDING COVER 30% OF LOT
 MAXIMUM HEIGHT 35 FEET
 DEVELOPMENT IN THE AGR DISTRICT SHALL COMPLY WITH ALL OTHER APPLICABLE REGULATIONS OF THIS ORDINANCE, INCLUDING THE DEVELOPMENT STANDARDS OF CHAPTER 6.

The area shown on this plot is a representation of department (SCDHEC OCRM) permit authority on the subject property. Critical areas by their nature are dynamic and subject to change over time. By delineating the permit authority of SCDHEC OCRM, SCDHEC OCRM in no way waives its right to assert permit jurisdiction at any time in any critical area on the subject property, whether shown hereon or not.

Agustin Adams 3/25/22
 SIGNATURE DATE

The critical line shown on this plot is valid for five years from the date of this signature, subject to the cautionary language above.

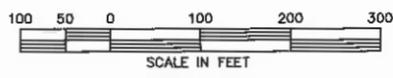
- REFERENCES:**
1. PLAT BY W. E. GILBERT & ASSOCIATED, INC. DATED JULY 15, 1877, RECORDED IN CHARLESTON COUNTY ROD OFFICE IN PLAT BOOK AK PAGE 43 PB# 8885
 2. PLAT BY CHARLES F. DANLEY JR., DATED JUNE 6, 1988, RECORDED IN CHARLESTON COUNTY ROD OFFICE IN PLAT BOOK BS PAGE 115 PB# 12882
 3. PLAT BY GEORGE A. Z. JOHNSON, JR., INC. DATED OCT. 28, 1998, RECORDED IN CHARLESTON COUNTY ROD OFFICE IN PLAT BOOK EC PAGE 894 PB# 17728

- LEGEND**
- EOP EDGE OF PAVEMENT
 - FOC FIBRE OPTIC CABLE
 - FOFOP FIBRE OPTIC CABLE WARNING POST
 - IPF IRON PIPE FOUND
 - IRF IRON REBAR FOUND
 - PP POWER POLE
 - X4.7 EXISTING ELEVATION

TREE LEGEND
 0 OAK

AWENDAW AREA
 CHRIST CHURCH PARISH
 CHARLESTON COUNTY, S. C.

TOPOGRAPHIC SURVEY OF TRACT 3-B (TMS 701-00-00-032)
 CONTAINING 9.72 ACRES

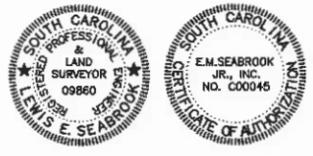


SCALE: 1" = 100'

JANUARY 26, 2022

I HEREBY STATE THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR SURVEYING IN SOUTH CAROLINA AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS A SURVEY AS SPECIFIED THEREIN.

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- NOTES:**
1. AREA DETERMINED BY COORDINATES
 2. BASED ON INTERPRETATION OF FEMA FLOOD INSURANCE RATE MAP NUMBER 45018C 0190 K DATED JANUARY 29, 2021. THE PROPERTY SHOWN HEREON LIES IN FLOOD ZONES X, AE(ELEV. 12) AE(ELEV. 13), AE(ELEV. 14), AE(ELEV. 15) AND VE(ELEV. 16).
 3. THERE IS NO OBSERVABLE EVIDENCE OF THE LOCATION OF CEMETERIES OR BURIAL GROUNDS ON THIS PROPERTY. SUBSURFACE CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING ANY SUBSURFACE CONDITIONS THAT MAY AFFECT THE USE OR FURTHER DEVELOPMENT OF THIS PROPERTY.

NGVD 88