APPLICATION - PERMIT

DELAWARE DEPARTMENT OF

RECEIVEDNATURAL RESOURCES

Page# ____ of ___ Pages

DIVISION OF WATER RESOURCES Clean Water — for Today and Tomorro	ON-SITE WASTEWATER SYSTEM	UNDWATER ONMENTAL CONTROL
Owner's Name: CHRISTINA EL CANDE Address: P.O. BOX 785, GEORGETOV Project Location: 17098 WILSON HILL	VN DE 19947	Phone: 302-727-9008
Application	Tax Map #:	135-14.00-14.00 DNREC
Preparer's Address:10087 CONCORD R		License #: 4483 Phone: (302)628-9164
I hereby affirm that the information preparer's Signature	provided on this document is acc	
(Please check all boxes that apply) Type of Construction: ☐ Replacement ☑ New Construction ☐ Component Replacement ☐ Repair to Existing System ☐ Authorization to Use Existing System ☑ Modification to Existing System PERMIT 240972 ☑ Bed or ☐ Trench	System Type: Low Pressure Pipe (FD) Elevated Sand Mound Pressure Dose (FD) Holding Tank Gravity (FD) Std. Pressure Dose (FD) Std. Pressure Dose (CF)	- W
☐ Gravelless Chamber or ☐ Stone ☐ Other Pre-Treatment Units ☐ Bio-Clear ☐ Klargester ☐ Septic Tank ☐ Recirculating Sand Filter ☐ Other:	# of Bedrooms: 4 + 44 SEAT A Average Percolation Rate:	30 MPI /S, 1 DAY/WK/7 DAYS = 19 GPD) = 499 GPD 1,148 SF
Central Water Available _Yes ∑No (If yes, please state Utility Name:)

PROJECT #: 25-371 COTTEN N ENGINEERING
CIVIL ENGINEERING, PLANNING AND MANAGEMENT CONSULTANTS
10087 CONCORD RD SEAFORD, DE 19973
PHONE/FAX (302) 628-9164 DATE: 8/15/2025 TAX MAP#: 135-14.00-14.00 NOTE: CONTACT SYSTEM DESIGNER IF SITE CONDITIONS CHANGE. GRAPHIC SCALE (IN FEET) 1 inch = 60 ft.S. C. R. 5 2 7 ILSON S 83°00'00" E 170.00' 293.86 100 EX. 2000 EX. 2 EA. 2 EA. DUPLEX: DWELLING S 83°00'00" E 100.00 ZONING C-1 28.31 PB 439/65 EX Area ... и 1500 Shed 1,199 SF Tã. SEPTIC SSEMBLY EX 1000 HALL 4 SEATS intrance 71,664**DOSE** 1.6452 ± Acres 30 X Existing ighting 18/ PERMIT 240972 7.0 MIFFLIN TAX DITCH, C.A. #06M-11-121
MIFFLIN TAX DITCH, CHANGE NO. 12
CHANGED TAX DITCH
CHANGED TAX DITCH
RIGHT OF WAY TO 50'
FROM TOP OF BANK
TO -Resource Delineation "Water of U.S." EXISTING DITCH EASEMENT TOP (Ordinary High-Water Line) 84°14'38" 290.00 ZONING C-1 ZONING AR-1 Mifflin Ditch Prong 2 Top Of Bank Of Bank DITCH BASEMENT Top Of Bank DESIGN BASED UPON LOT DIMENSIONS PROVIDED BY CLIENT AND FROM APPROVED SITE SITE PLAN BY JB ROACH ENG.. COTTEN ENGINEERING DID NOT PERFORM A SURVEY OF THIS PROPERTY. OWNER'S/AUTHORIZED AGENT SIGNATURE: DATE: A copy of this page must be submitted with both the septic system and well contruction report(s).

PROJECT #: 25-371

DATE: 8/15/2025

COTTEN N ENGINEERING CIVIL ENGINEERING, PLANNING AND MANAGEMENT CONSULTANTS

10087 CONCORD RD SEAFORD, DE 19973 PHONE/FAX (302) 628-9164

TAX MAP#: 135-14.00-14.00

1. PROPOSED SANITARY CLEANOUT

NOTE: CONTACT SYSTEM DESIGNER IF SITE CONDITIONS CHANGE.

2. 95 LF± NEW 4" GRAVITY LINE SLOPE 8"/LF.
3. NEW 5X5 SEPTIC TANK WITH RISERS, FILTER, PLACE TANK GREATER THAN 10 FT AWAY FROM STRUCTURES AND PARKING AREA AND 50FT FROM WELLS PER DNREC, EXTEND RISERS TO ABOVE GRADE TYP. ACCORDING TO DNREC STANDARDS.
4. 3 LF 4" PVC

5. NEW 5 X 5 DOSE TANK WITH GOULDS WSO311B PUMP. AND TIMED CONTROLS

6, 40 LF 2.0" PVC SCH 40 TRANSMISSION LINE FOLLOWED BY 20 LF OF 4" SCH 40 PVC.

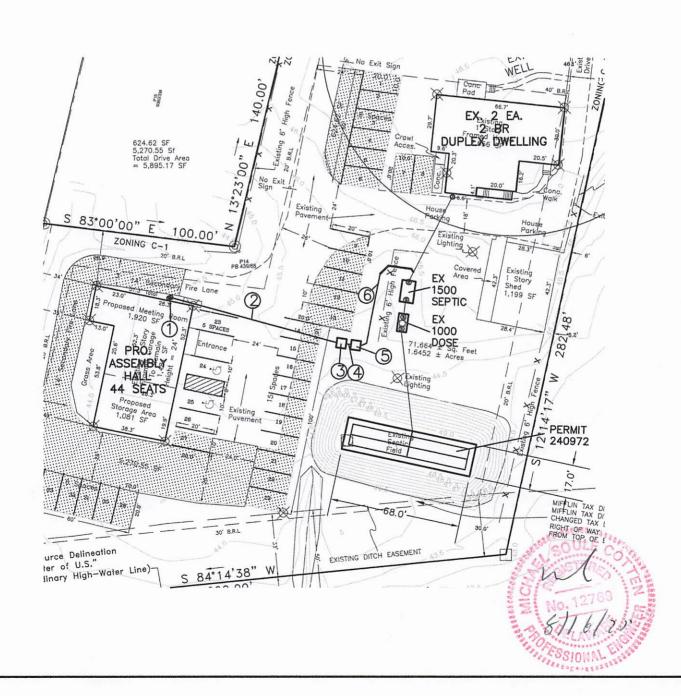
WITHIN THE EXISTING 1000 GAL DOSE TANK, ADJUST TIMER AND FLOATS ACCORDING TO NEW DOSE TANK SHEET. CONTRACTOR SHALL CONTACT MISS UTILITY PRIOR TO ANY EXCAVATION.

CONTRACTOR SHALL REMOVE ANY TREES WITHIN 10FT OF PROPOSED DISPOSAL AREA

ACCORDING TO DNREC STANDARDS.

CONTRACTOR SHALL COORDINATE WITH OWNER ON SANITARY TIE INS. AND INVERT ELEVATIONS. AND RESTORATION OF SITE

SPARE SHALL BE SAND LINED ESM IN AREA OF INITIAL OR ALTERNATIVE APPROVED SYSTEM IN RESIDUAL AREA. CONTRACTOR AND OWNER SHALL ABIDE BY THE REQUIREMENTS OF THE SOIL REPORT.



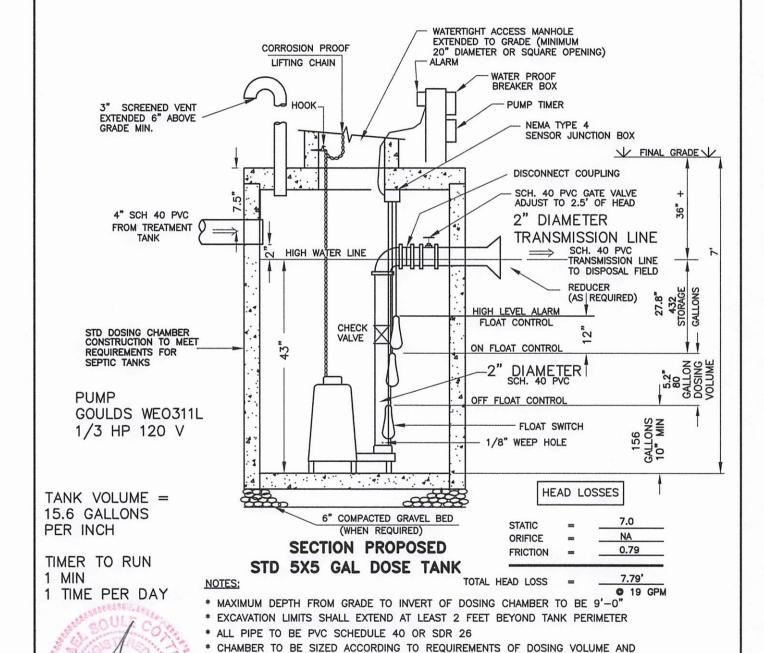


PROJECT #: 25-371 DATE: 8/15/2025

COTTEN ENGINEERING LLC

TAX MAP#: 135-14.00-14.00

IL ENGINEERING, PLANNING AND MANAGEMENT CONSULTANTS
10087 CONCORD RD SEAFORD, DE 19973
PHONE/FAX (302) 828-9184



ALL DOSING CHAMBER COMPONENTS SHALL BE FIELD TESTED TO INSURE ACCURACY, WATERTIGHTNESS AND PROPER OPERATION OF ALL PUMPS AND ALARM CONTROLS ALL ELECTRICAL CONNECTIONS SHALL BE WATERPROOF, CORROSION RESISTANT AND

*ALL TANK INLETS, OUTLETS, AND ACCESS EXTENSIONS SHALL BE PROPERLY SEALED

WITH WATERTIGHT GROUT OR APPROVED JOINT SEALING COMPOUND

* PUMP SHALL BE CONNECTED TO A SEPARATE CIRCUIT FROM ALARM

* FLOATS TO BE INSTALLED ON FLOAT TREE NOT TRANSMISSION LINE

STORAGE.

EXPLOSION PROOF

COTTEN ENGINEERING LLC

Job #:	25-371 INGLESIA		
NAME			
Calc. by:	MC		
Date:	8/15/2025		
Date:	8/15/2025		

Type of System:	TRANSFER PUMP

Total flow used:	19 gpm
rotal mon accar	10 gp.,

STATIC HEAD	7 ft.
-------------	--------------

Check	hood.
CHECK	HEAU.

Pump:	Goulds 3886 1/3 HP-WS0311B
Allowable TDH:	16 ft.
@ flow of:	19 gpm
Allowable friction head	: 8.21 ft.

Trans. line diameter:	2 in.	
Head loss/100 ft.:	1.65 ft./100 ft.	C=100
Length of trans. line:	40 ft.	
Multiplier for fittings:	1.2	
Trans. line head loss:	0.79 ft.	
Total friction head:	1.20 ft.	

14.62

TDH: 7.79 ft. AT 19 GPM

% of allow. frict. head:





WS_B Series Model 3886

SUBMERSIBLE SEWAGE PUMP





Wastewater

FEATURES

Impeller: Cast iron, semi-open, dynamically balanced, non-clog with pump out vanes for mechanical seal protection. Optional Silicon bronze impeller available.

Casing: Cast iron volute type for maximum efficiency. Designed for easy installation on A10-20 guide rail or base elbow rail systems.

Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE sealing faces for superior abrasive resistance, stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Sewage systems
- Dewatering/Effluent
- Water transfer

SPECIFICATIONS

Pump

• Solids handling capabilities: 2" maximum

• Discharge size: 2" NPT

Capacities: up to 185 GPM

Total heads: up to 38 feet TDH

Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent

MOTORS

- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer. All ratings are within the working limits of the motor.
- Class B insulation

Single phase (60 Hz):

- All single phase models feature capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ½ 1 HP models have NEMA three prong grounding plugs.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

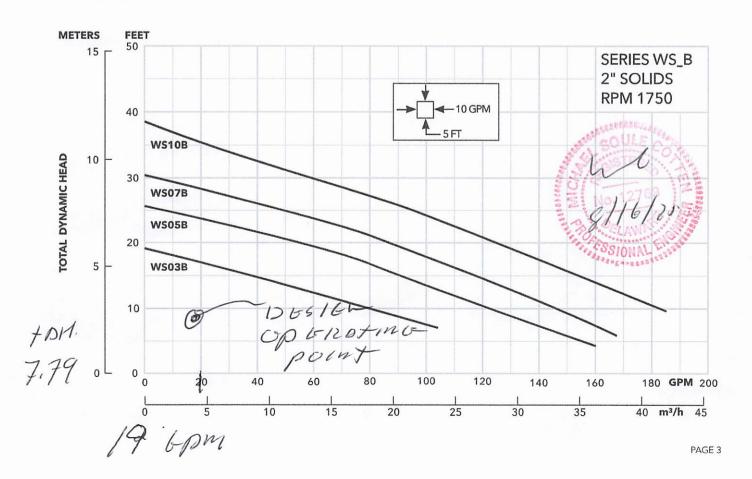
Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- Motor Cover O-ring: Assures positive sealing against contaminants and oil leakage.



MODELS

Order up		Phase	Volts	DDM	Impeller	Max.	LRA	KVA	Full Load	Res	istance	Wt.			
Number	пг	rnase	VOILS	KPIVI	Dia. (In.)	Amps	LKA	Code	Motor Eff.	Start	Line-Line	(Lbs.)			
WS0311B			115			10.7	30.0	М	54	11.9	1.7				
WS0318B	0.33		208		4.69	6.8	19.5	K	51	9.1	4.2	63			
WS0312B		1	230			4.9	14.1	L	53	14.5	8.0				
WS0511B		' '	115			14.5	31.1	J	55	9.3	1.4				
WS0518B	5-		208			8.0	19.5	K	51	9.1	4.2				
WS0512B	- 1		230			7.3	16.5	J	54	11.7	5.6				
WS0538B	0.5		200		5.00	3.8	12.3	K	75	NA	6.7	65			
WS0532B		3	230			3.3	9.7	K	75	NA	9.9				
WS0534B			0			460			1.7	4.9	K	75	NA	39.4	
WS0537B			575			1.4	4.3	K	68	NA	47.8				
WS0718B		1	208	1750		11.0	39.0	K	65	2.6	1.4				
WS0712B		'	230	1730		9.4	24.8	J	57	4.8	2.3				
WS0738B	0.75		200		5.38	4.1	21.2	Н	74	NA	4.3				
WS0732B	0.75	3	230		3.30	3.6	17.3	J	76	NA	5.6				
WS0734B			460			1.8	8.9	J	76	NA	22.4				
WS0737B			575			1.5	7.3	J	71	NA	29.2	85			
WS1018B		1	208			14.0	39.0	K	65	2.6	1.4	05			
WS1012B			230			12.3	30.5	Н	60	4.3	1.8				
WS1038B	1		200		5.75	6.0	21.2	Н	74	NA	4.3				
WS1032B	·	3	230		5.75	5.8	17.3	J	76	NA	5.6	_			
WS1034B			460			2.9	8.9	J	76	NA	22.4	_			
WS1037B			575			2.4	7.3	J	71	NA	29.2				

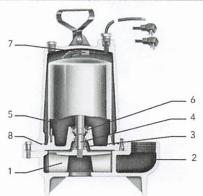


PERFORMANCE RATINGS (gallons per minute)

Order	No.	WS03B	WS05B	WS07B	WS10B
	HP▶	1/3	1/2	3/4	1
F	RPM ▶	1750	1750	1750	1750
	10 ▶	80	122	145	183
nd iter	15	36	90	116	152
Hee	20	-	50	86	123
Total Head eet of Water	25	_	-	48	95
Tota Feet	30	_	-	-	58
	35	-	_	-	20

COMPONENTS (for reference only)

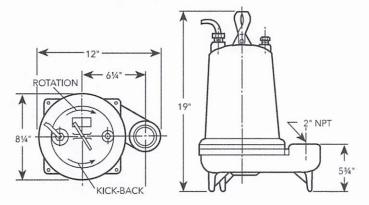
Item No.	Description	
1	Impeller	
2	Casing	
3	Mechanical Seal	
4	Motor Shaft	
5	Motor	
6	Ball Bearings	
7	Power Cable	
8	Casing O-Ring	



NOTE: For specific parts breakdown, see repair parts.

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)





SH6/20

Xylem, Inc. 2881 East Bayard Street Ext., Suite A Seneca Falls, NY 13148

Phone: (866) 325-4210 Fax: (888) 322-5877

www.xyleminc.com/brands/gouldswatertechnology

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MODEL TD Control Panel

Single phase, simplex timed dosing pump control. OR EQUAL

The Model TD control panel provides a reliable means of controlling one single phase pump in onsite septic installations. A programmable timer activates a magnetic motor contactor to turn the pump on and off. A low level cutout float overrides the timer to prevent the pump from running dry. An alarm float activates the audio/visual alarm system indicating a high liquid level. Common applications include sand filter systems, pressure distribution systems, mound systems, or any application requiring a timed dose.

PANEL COMPONENTS

- Enclosure measures 10 x 8 x 4 inches (25.40 x 20.32 x 10.16 cm) NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
- 2. Magnetic Motor Contactor controls pump by switching electrical lines.
- 3. HOA Switch for manual pump control.
- 4. Control Fuse
- 5. Alarm Fuse
- 6. Float Switch Terminal Block
- 7. Incoming Power Terminal Block
- Programmable Timer with separate variable controls allows for setting the on and off times from .05 seconds to 30 hours.
- 9. Circuit Breaker provides pump disconnect and branch circuit protection.
- 10. Spare Fuse
- 11. Backplate Label includes diagram of float, pump, and power connections.
- 12. Ground Lug

NOTE: Timer Installation Label and Pump/Float Switch Installation Specification Label are located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

- 13. Red Alarm Beacon provides 360° visual check of alarm condition.
- Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
- Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
- 16. Horn Silence Relay (mounted under bracket).

NOTE: other options available.

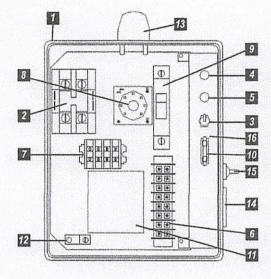
FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes two 20' SJE float switches
- Complete with step-by-step installation instructions
- Five-year limited warranty

OPTIONAL FEATURE

34" (86.36cm) Panel Mounting Post (Factory Installed). Includes Duplex Installation Kit (Enclosure upsized to 10" x 8" x 6" (25.4 x 20.32 x 15.24 cm). Max. Enclosure size14" x 12" x 6" (35.56 x 30.48 x 15.24 cm)

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS. SEE PRICE BOOK FOR LIST PRICE.



Model Shown TD1W914X

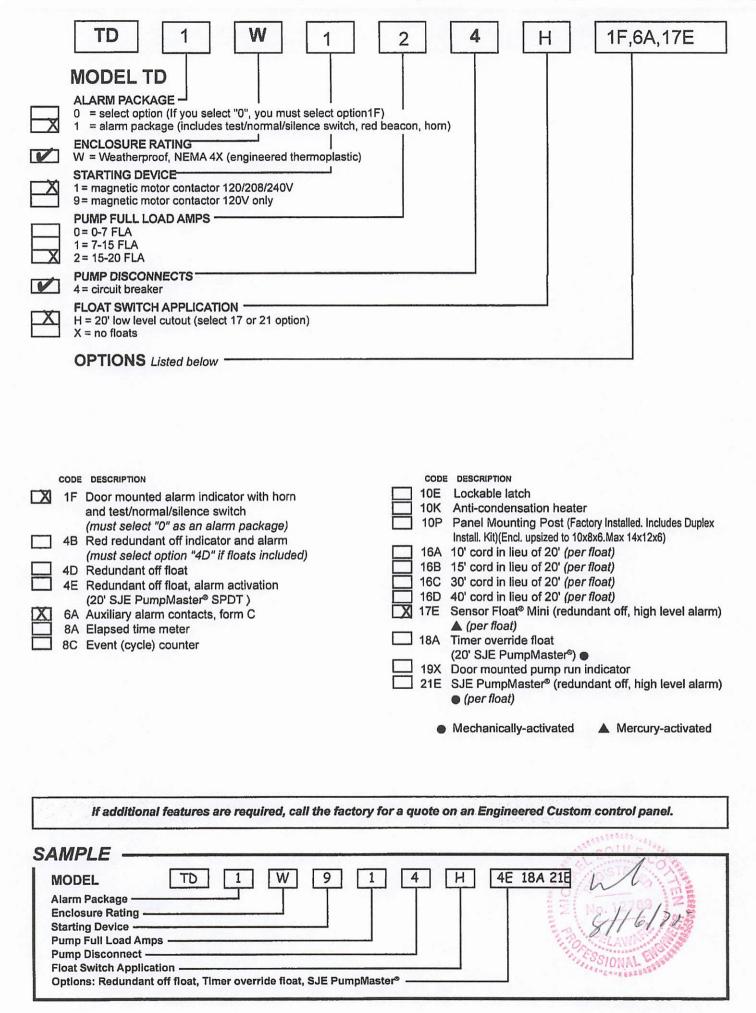






1-218-847-4617 Fax email: customer.service@sjerhombus.com

www.sjerhombus.com

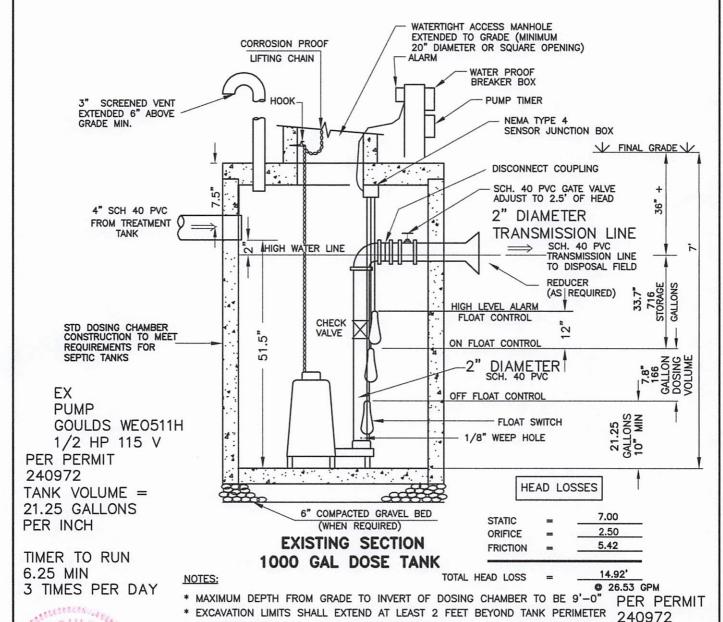


PROJECT #: 25-371 DATE: 8/15/2025

COTTEN ENGINEERING LLC

TAX MAP#: 135-14.00-14.00

CIVIL ENGINEERING, PLANNING AND MANAGEMENT CONSULTANTS 10087 CONCORD RD SEAFORD, DE 19973 PHONE/FAX (302) 628-9164



* ALL PIPE TO BE PVC SCHEDULE 40 OR SDR 26

EXPLOSION PROOF

* CHAMBER TO BE SIZED ACCORDING TO REQUIREMENTS OF DOSING VOLUME AND

* ALL DOSING CHAMBER COMPONENTS SHALL BE FIELD TESTED TO INSURE ACCURACY, WATERTIGHTNESS AND PROPER OPERATION OF ALL PUMPS AND ALARM CONTROLS

* ALL ELECTRICAL CONNECTIONS SHALL BE WATERPROOF, CORROSION RESISTANT AND

*ALL TANK INLETS, OUTLETS, AND ACCESS EXTENSIONS SHALL BE PROPERLY SEALED

WITH WATERTIGHT GROUT OR APPROVED JOINT SEALING COMPOUND

* PUMP SHALL BE CONNECTED TO A SEPARATE CIRCUIT FROM ALARM

* FLOATS TO BE INSTALLED ON FLOAT TREE NOT TRANSMISSION LINE



PARID: 135-14.00-14.00

IGLESIA CRISTIANA EL CANDELERO DE ORO

17098 WILSON HILL RD

Property Information

Property Location: 17098 WILSON HILL RD

Unit: City:

GEORGETOWN

State:

DE

C-Commercial

Zip:

19947

Class:

Use Code (LUC): 416-Mixed Use

 Town
 00-None

 Tax District:
 135 – GEORGETOWN

 School District:
 1 - INDIAN RIVER

 Fire District:
 77-Georgetown

 Deeded Acres:
 1.6501

 Frontage:
 0

Frontage: Depth:

.000

Irr Lot:

Plot Book Page: /PB

 100% Land Value:
 \$101,700

 100% Improvement Value
 \$236,300

 100% Total Value
 \$338,000

Legal

Legal Description

RD REYNOLDS HILL TO BRDGVLL S/RT 527

1200' W/RT 113

Owners

OwnerCo-ownerAddressCityStateZipIGLESIA CRISTIANA EL CANDELERO DE OROINCPO BOX 785GEORGETOWNDE19947

Sales

Sale Date	Book/Page	Sale Price	Stamp Value	Parcels Sold	Grantee/Buyer
08/14/2018	4933/63	\$145,000.00			IGLESIA CRISTIANA EL CANDELERO DE ORO
09/01/1983	0/0	\$26,000.00	\$520.00	0	

Owner History

Tax Year:	Owner:	Co-owner	Address:	City:	State:	Zip:	Deed Book/Page:	
2025	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2024	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2023	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2022	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2021	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2020	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2019	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2019	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2018	IGLESIA CRISTIANA EL CANDELERO DE ORO	INC	PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2018	IGLESIA CRISTIANA EL CANDELERO DE ORO I		PO BOX 785	GEORGETOWN	DE	19947	4933/63	
2018	WARE JANET L		PO BOX 478	GEORGETOWN	DE	19947	0/0	
2017	WARE JANET L		PO BOX 478	GEORGETOWN	DE	19947	0/0	
2017	WARE JANET L		PO BOX 478	GEORGETOWN	DE	19947	0/0	
2017	WARE JANET L		PO BOX 478	GEORGETOWN	DE	19947	0/0	
2014	WARE JANET L		17098 WILSON HILL RD	GEORGETOWN	DE	19947	0/0	
2014	WARE JANET L		17098 WILSON HILL RD	GEORGETOWN	DE	19947	0/0	
2006	WARE J MELVIN JR JANET L		17098 WILSON HILL RD	GEORGETOWN	DE	19947	0/0	

