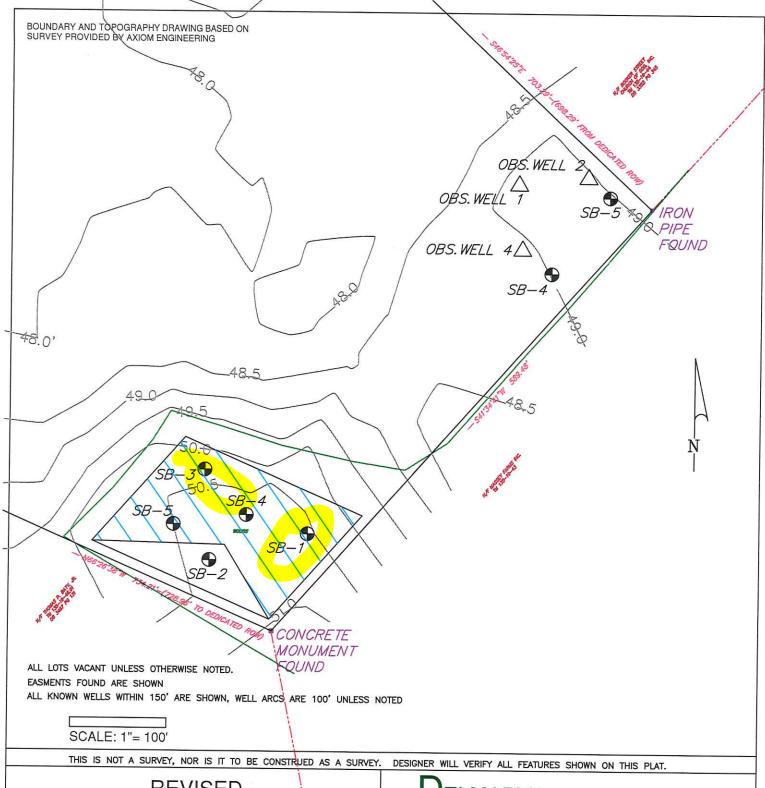


### **Permit Number:**

06/20/2025 281073 APPLICATION - PERMIT GROUNDWATER SYSTEM



(Please Type or Print Legibly) OWNER'S NAME: Restoration Worship Center, Inc.	PHONE: 302-344-6849
ADDRESS: 201 North Railroad Road, Georgetown, DE 19947	
PROJECT LOCATION: South Side of Route 9, 1 mile west of Route 113	
TAX/MAP #	1-35-19, 44.01
APPLICATION PREPARER: KENNETH R. CHRISTENBURY, P.E.	DNREC LICENSE #: 4137
PREPARER'S ADDRESS: AXIOM ENGINEERING, 18 CHESTNUT STREET, G	EORGETOWN, DE 19947
PHONE: 302-855-0810	MARTIN A. CHA/6
I hereby affirm that the information provided on this document is a	accurate and complete 53
Preparer's Signature: Date: Date: Date:	ay wara nh a salis was a table the cite
-SEPTIC DESIGN CRITE	
(Please check all boxes that apply)	
System Type: (CF = Cap & Fill / FD = Full Depth)	Type of Construction:
☐ Gravity (FD) ☐ Permanent Holding Tank	Replacement
☐ Gravity (CF) ☑ Elevated Sand Mound	New Construction
☐ Pressure Dose (FD) ☐ Wisconsin At-Grade	Component Replacement
☐ Pressure Dose (CF) ☐ Subsurface Micro Irrigation	Component:
☐ Low Pressure Pipe (FD) ☐ Peat Bio- Filter	Repair to Existing System
Low Pressure Pipe (CF) Other	Reason:
☐ Temporary Holding Tank	
	Authorization to Use Existing System
☑Bed or ☐Trench	Permit #:
☐ Gravelless Chamber ☐ Stone/Gravel ☐ Tire Chips	Present Condition:
Sand-lined Yes No	Structure to be connected:
Existing System Malfunctioning  Yes No No N/A	
	# of Bedrooms:
Pre-Treatment Units	Avg. Percolation Rate: 75 mpi
✓ Septic Tank	Gallons Per Day Flow: 686 Equalized
Other Effluent Filter	Minimum Sq. Ft. Rcq'd: 2495
	Sq. Ft. Proposed: 2500
Central Water Available ☐ Yes ☑ No	PAID
The Company of the Co	`
(If yes, please state Utility Name:	\$ <u>325.00</u> 06/20/2025



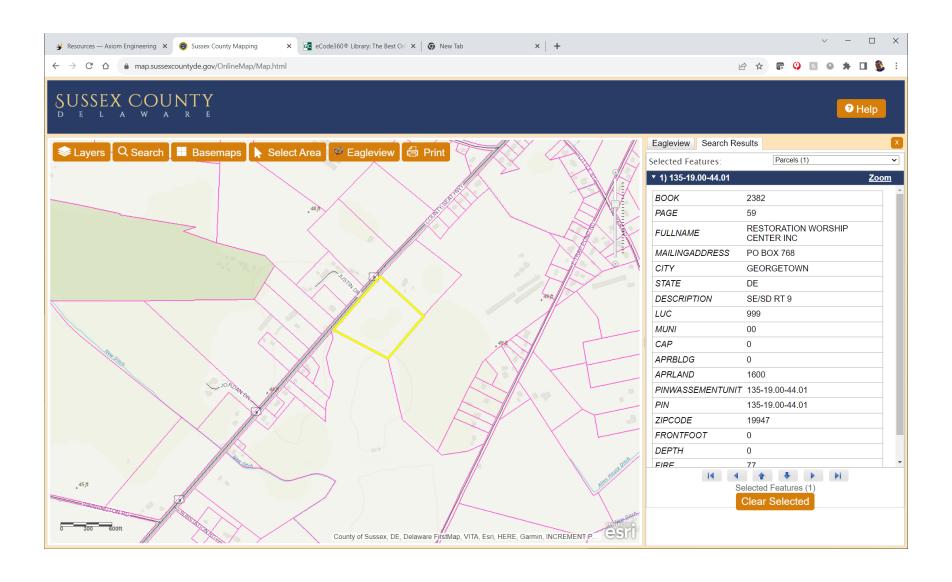
REVISED
SITE EVALUATION DRAWING
RESTORATION WORSHIP
CENTER
PARCEL NUMBER:

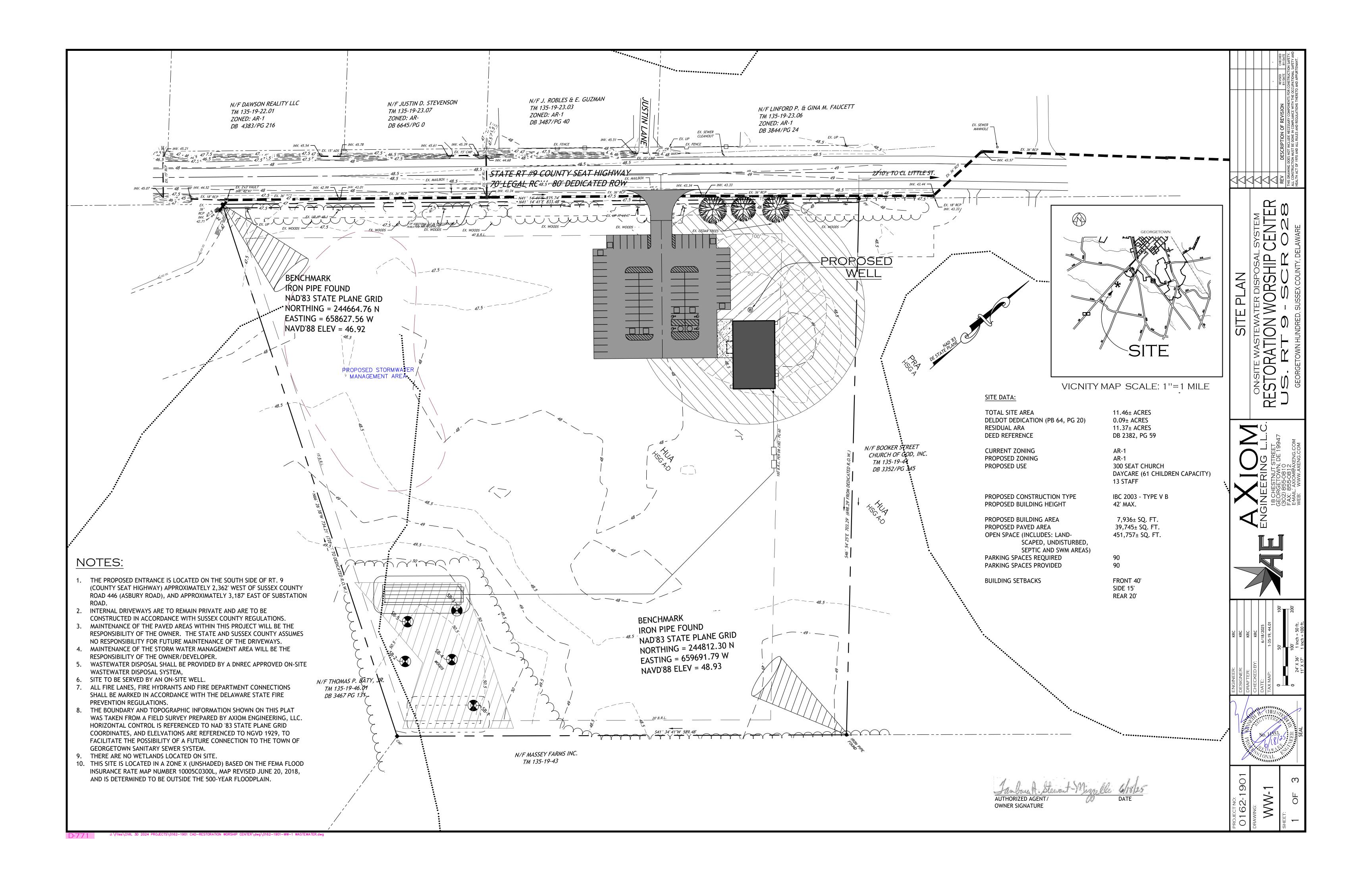
1-35-19.00-44.01 (APPROXIMATELY 11.37 ACRES) DELMARVA ENVIRONMENTAL, INC.

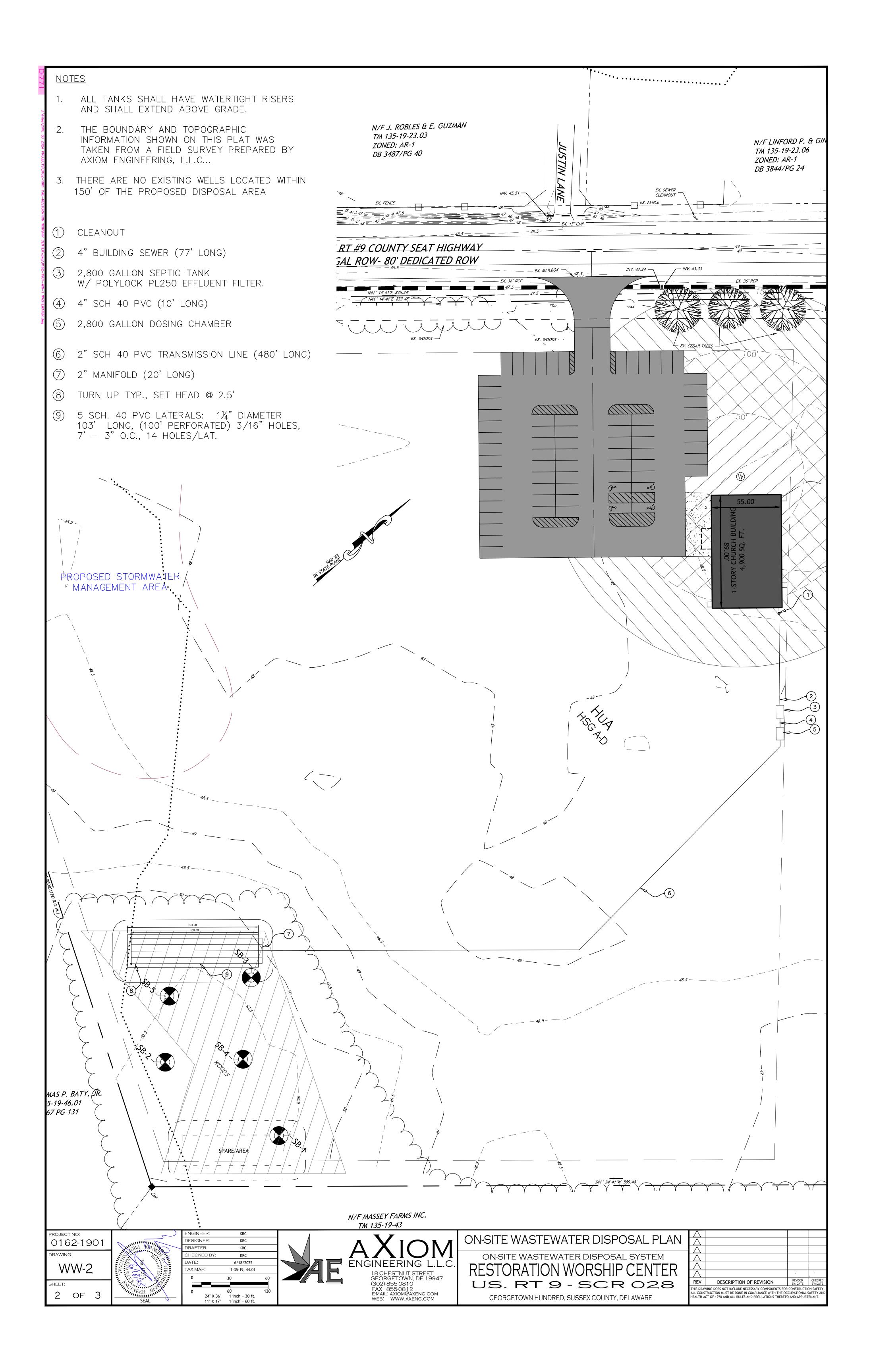
> IAN R. KAUFMAN, ©PSS/SC PO BOX 117 DAGSBORO, DE 19939 302-732-9858 CERTIFIED PROFESSIONAL SOIL SCIENTIST

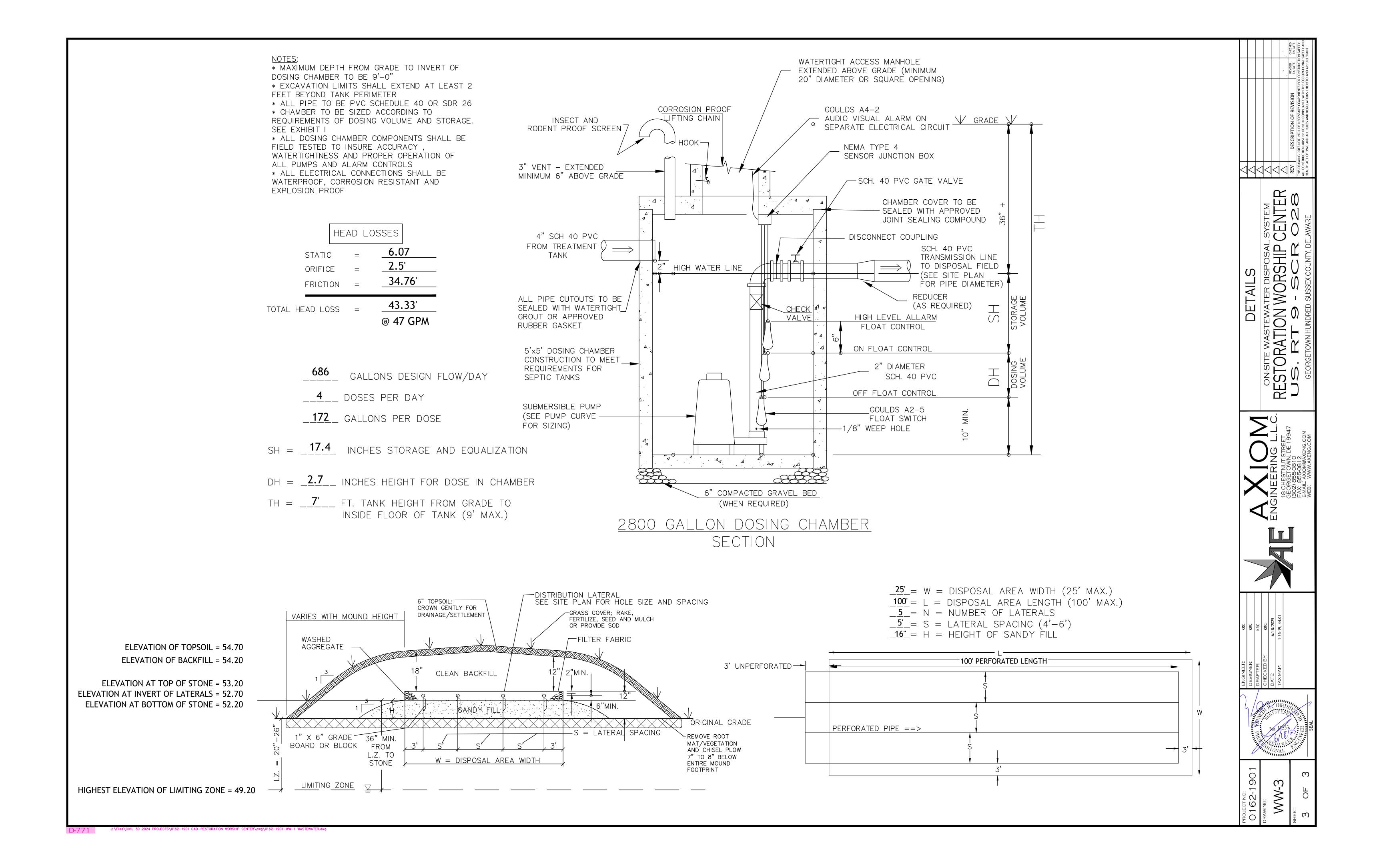
DATE: APRIL 2025

JOB #: 11040













## Submersible Effluent Pump

**MODEL 3885** 

## **WE Series**

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

#### **APPLICATIONS**

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

#### **SPECIFICATIONS**

#### **Pump**

- Solids handling capabilities: <sup>3</sup>/<sub>4</sub>" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

#### **FEATURES**

- Impeller: Cast iron, semiopen, non-clog with pumpout vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
- Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.
- Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE sealing faces. 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.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.
- Designed for continuous operation when fully submerged.

#### **MOTORS**

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 1/3-11/2 HP models.
- Class F insulation on 2 HP models.

#### Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- 1/3 1 HP models have NEMA three prong grounding plugs.
- 1½ HP and larger units have bare lead cord ends.

#### 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.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits,

can be operated continuously without damage when fully submerged.

- Bearings: Upper and lower heavy duty ball bearing construction.
- 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.
- **O-ring**: Assures positive sealing against contaminants and oil leakage.

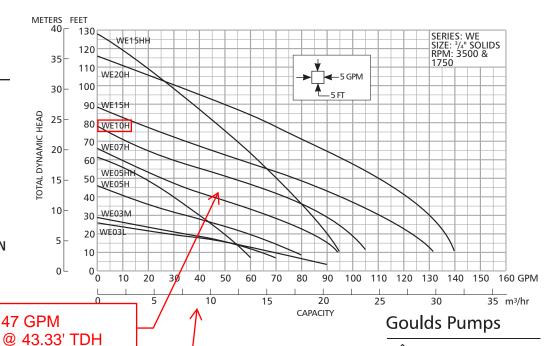
#### **AGENCY LISTINGS**



Tested to UL 778 and CSA 22.2 108 Standards

By Canadian Standards
Association
US File #LR38549

Goulds Pumps is ISO 9001 Registered.



CONTACT ENGINEER TO RE-SIZE PUMP IF TRANSMISSION LINE LENGTH EXCEEDS 600'

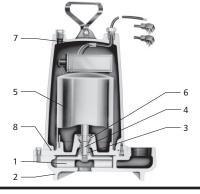
vw.goulds.com

ITT Industries



#### **COMPONENTS**

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



## Submersible Effluent Pump

**MODEL 3885** 

## **WE Series**

#### **MODELS**

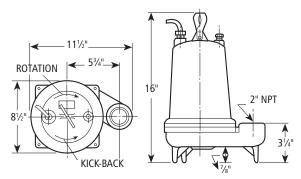
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)
WE0311L		115		10.7			
WE0318L		208		6.8			
WE0312L	1/3	230		4.9	1750		56
WE0311M		115		10.7			
WE0318M		208	1	6.8			
WE0312M		230		4.9			
WE0511H		115		14.5			
WE0518H		208		8.1			
WE0512H		230		7.3			
WE0538H		200		4.9			
WE0532H		230	3	3.3			
WE0534H		460		1.7			
WE0537H	1/2	575		1.4			60
WE0511HH		115		14.5			
WE0518HH		208	1	8.1			
WE0512HH		230		7.3			
WE0538HH		200		4.9			
WE0532HH		230	3	3.6			
WE0534HH		460		1.8			
WE0537HH		575		1.5			
WE0718H		208	1	11.0			
WE0712H		230		10.0			
WE0738H	3/4	200		6.2			
WE0732H		230	3	5.4			
WE0734H		460		2.7		3/4"	
WE0737H		575		2.2			70
WE1018H		208	1	14.0			
WE1012H		230		12.5	3500		
WE1038H	1	200		8.1			
WE1032H		230	3	7.0			
WE1034H		460		3.5			
WE1037H		575		2.8			
WE1518H		208	1	17.5			
WE1512H		230		15.7			
WE1538H		200		10.6			
WE1532H		230	3	9.2			
WE1534H		460		4.6			
WE1537H	1½	575		3.7			80
WE1518HH		208	1	17.5			
WE1512HH		230		15.7			
WE1538HH		200		10.6			
WE1532HH		230	3	9.2			
WE1534HH		460		4.6			
WE1537HH		575		3.7			
WE2012H		230	1	18.0			
WE2038H		200		12.0			
WE2032H	2	230	3	11.6			83
WE2034H		460		5.8			
WE2037H		575		4.7			

#### PERFORMANCE RATINGS (gallons per minute)

1 -	rder Io.	WE03L	WE03M	WE05H	WE07H	WE10H	WE15H	WE05HH	WE15HH	WE20H
	HP	1/3	1/3	1/2	3/4	1	11/2	1/2	1½	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
	5	86	_	_	_	-	_	_	_	_
	10	70	63	78	94	_	_	58	95	_
	15	52	52	70	90	103	128	53	93	138
	20	27	35	60	83	98	123	49	90	136
١.	25	_	_	48	76	94	117	45	87	133
Water	30	_	_	35	67	88	110	40	83	130
×	35	_	_	22	57	82	103	35	80	126
of	40	_	_	_	45	74	95	30	77	121
Feet	45	_	_	_	35	64	86	25	74	116
卢	50	_	_	_	25	53	77	_	70	110
Head	55	_	_	_	_	40	67	_	66	103
l e	60	_	_	_	_	30	56	_	63	96
Total	65	_	_	_	-	20	45	_	58	89
	70	_	_	_	_	_	35	_	55	81
	75	_	_	_	_	_	25	_	51	74
	80	_	_	_	_	_	_	_	47	66
	90	_	_	_	_	_	_	_	37	49
	100	_	_	_	_	_	_	_	28	30

#### **DIMENSIONS**

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



Goulds Pumps is a brand of ITT Water Technology, Inc. – a subsidiary of ITT Industries, Inc.

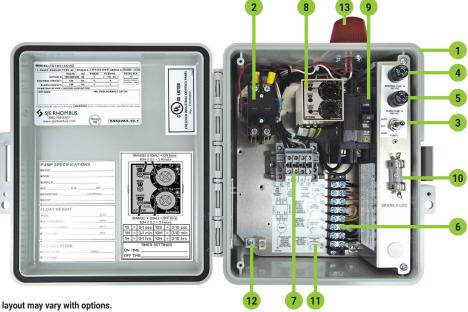
Goulds Pumps and the ITT Engineered Blocks Symbol are registered trademarks and tradenames of ITT Industries.

**Goulds Pumps** 



#### MODEL TD CONTROL PANEL

Single Phase, Simplex Timed Dosing Pump Control







Panel layout may vary with options.

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. This panel is available with optional EZconnex® float connection system.

#### **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 size 14" x 12" x 6" (35.56 x 30.48 x 15.24 cm)

#### **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)
- Magnetic motor contactor controls pump by switching electrical lines
- HOA switch for manual pump control 3.
- 4. Control fuse
- 5. Alarm fuse
- Float switch terminal block 6.
- 7. Incoming power terminal block
- Programmable timer with separate variable controls allows for setting the on and off times from .1 seconds to 10 hours
- Circuit breaker provides pump disconnect and branch circuit protection
- Spare fuse
- 11. Backplate label includes diagram of float, pump, and power connections
- Ground lug
- 13. Red LED beacon provides 360° visual check of alarm condition
- Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating) (Not shown)
- 15. 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 (Not shown)
- 16. Horn silence relay (No shown mounted under bracket)

Note: Other options available.

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







CONTROL PANEL	ALA PACK		ENCLOSURE STARTING PUMP FULL PUMP RATING DEVICE LOAD AMPS DISCONNECTS	FLOAT SWITCH APPLICATION
CONTROL PANEL	1	TD	Single Phase Simplex Timed Dosing	\$1,041.00
ALARM PACKAGE		0	Select Options (select Option 1F below)	- \$21.00
ALAKWI PACKAGE		1	Alarm Package (includes test/normal/silence switch, red light, & l	horn) Base
ENCLOSURE RATING	<b>/</b>	W	Weatherproof, NEMA 4X (engineered thermoplastic)	Base
STARTING DEVICE		1	Magnetic Motor Contactor 120/208/240V	\$66.00
STARTING DEVICE		9	Magnetic Motor Contactor 120V only	Base
DUMAN FULL		0	0 - 7 FLA	Base
PUMP FULL Load Amps		1	7 - 15 FLA	Base
LUAD AWIF3		2	15 - 20 FLA	Base
PUMP DISCONNECTS	1	4	Circuit Breaker	Base
		Н	Pump Down - 20' Low Level Cutout (select Option 17 or 21 be	low) Base
FLOAT SWITCH APPLICATION		Е	EZconnex® Float Switch System (select Option 33, 35 or 36 be	elow) - \$64.00
AFFLICATION		Χ	No Floats	- \$64.00

	Model TD Base Price	\$1,041.00
ᇤ	Alarm Package	
PRICING WORKSHEE	Enclosure Rating	
	Starting Device	
	Pump Full Load Amps	
	Float Switch Application	
	Total Options	
	TOTAL LIST PRICE	

OPTIONS (LISTED BELOW)

OPTIONS	DESCRIPTION	LIST PRICE
1F	Door Mounted Alarm Indicator with Horn and Test/Normal/ Silence Switch (must select "0" for <b>ALARM PACKAGE</b> )	\$33.00
4B Red Redundant Off Indicator & Alarm (must also select Option 4D if floats are required)		\$60.00
4D	Redundant Off Float	\$28.00
4E	Redundant Off Float, Alarm Activation (20' SJE PumpMaster® SPDT)	\$43.00
6A	Auxiliary Alarm Contact, Form A	\$43.00
8A	Elapsed Time Meter	\$60.00
8C	Event (Cycle) Counter	\$60.00
10E	Lockable Latch	\$22.00
10K	Anti-condensation Heater	\$109.00
10P	Panel Mounting Post - Factory Installed, Includes Duplex Installation Kit (Enclosure Upsized to 10x8x6, Max 14x12x6)	\$155.00

OPTIONS	DESCRIPTION	LIST PRICE
16A	10' Cord in Lieu of 20' Cord (per float)	- \$3.00
16B	15' Cord in Lieu of 20' Cord (per float)	- \$2.00
16C	30' Cord in Lieu of 20' Cord (per float)	\$5.00
16D	40' Cord in Lieu of 20' Cord (per float)	\$15.00
17E	Sensor Float® Mini - Redundant Off, High Level Alarm (per Float) - Mercury	\$4.00
18A	Timer Override Float (20' SJE PumpMaster®) - Mechanical	\$43.00
19X	Door Mounted Pump Run Indicator	\$33.00
21E	SJE PumpMaster® - Redundant Off, High Level Alarm (per float) - Mechanical	\$4.00
33U	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp	\$313.00
35U	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp	\$437.00
36U	EZconnex® 3-Port, 50', with 10' Floats (2) / Pipe Clamp, Sealing Plug	\$276.00



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Fax: 302 855-0812
E-mail: axiom@axeng.com

#### **GENERAL NOTES**

 The contractor during inspection of the system shall perform pressure settings of lateral operating pressures. The contractor shall make available enough pressure measuring devices so that numerous simultaneous pressure determinations may be made as requested by the engineer.

#### **TIMERS**

1.	Timer to o	perate in	such a manne	er as to al	low a	minimum o	of six
	hours off ti	me betwe	en doses and t	o equalize	doses	s throughou	ut the
	day.	Run time	will be set at: _	-	219	seco	onds.
	Off time at	6	hours,	4		doses per	day.

- 2. Static head will be field measured. Orifice head will be measured with a standpipe on the furthest lateral.
- 3. Timer to SJ Rhombus TD-1 or a timer of equal performance as approved by the engineer.
- 4. Timer is to have a battery back up power source.
- 5. The timer shall be installed in such a manner to override the float switches.

### Axiom Engineering, LLC

Application

Site Plan (CAD sheet 2)

**Cross Section Detail (CAD sheet 3)** 

Pump Detail (CAD sheet 4) & Pump curve .pdf

SEPTIC CALCULATIONS Rich-Field Acres Lot 4

Septic Timer Note

 Job #:
 0162-1901

 Calc'd by:
 K. CHRISTENBURY

 Date:
 05/05/25

**Bedrooms**1
Daily Flow
686 gpd

Design flow: 686 gpd w/ 25% reduction for low flow devices

LZ = Depth to Limiting Zone: 20 in.
Perc. rate: 75 mpi

Minimum Sq. Ft. Required: 2495 sq. ft. for ESM system

Septic width: 25 ft. (Use increments of 5' based on lateral spacing of 5'

Septic length: 100 ft. (4x width or longer recommended)

Lateral Spacing: 5 ft (4' to 6')

Sq. Ft. Proposed: 2500 ft.^2

**Type of System:** Elevated Sand Mound

Outer Boundary: 3 ft.(use 3' for all ESM systems)

Orifice Head: 2.5 ft. (2.31 min.)

Laterals:

No. of laterals:

Length of laterals:

Length O.C./hole:

No. of holes/lateral:

No. holes/lat. used:

Size of flow hole

Flow/hole:

Lateral flow:

5

100

ft. (100' max.)

ft. (page 59 in regs.)

13.7931

13.7931

14

3/16"

9.24

gpm/hole

Total flow in field: 46.2 gpm
Total flow used: 47 gpm

Height of lateral above ground	22 in.
Height of Mound:	46 in.
Height of Sandy Fill below sto.	16 in.
Side Slope	3 :1
Lateral offset to disposal area:	3 ft.
Offset to toe of mound:	-11.5 ft., from disposal area to toe (if ex. grade is flat)

#### Friction Head:

Lateral Diameter:	1.25 <i>in.</i>
Lateral Flow:	9.24 gpm/lateral
Head loss/100 ft.:	2.65 <i>ft./100 ft.</i>
Length of Lateral:	100 <i>ft.</i>
Multiplier for fittings:	1.2
Lateral head loss:	3.18 <i>ft.</i>

Manifold Diameter:	2 <i>in.</i>
Manifold Flow:	23.5 gpm / half manifold
Head loss/100 ft.:	1.51 <i>ft./100 ft.</i>
Manifold Length	19.00 <i>ft.</i>
1/2 Length of manifold:	9.5 <i>ft.</i>
Multiplier for fittings:	1.2
Manifold head loss:	0.17 <i>ft.</i>

Trans. line diameter:	2 <i>in.</i>	
Trans. Line flow	47 <i>gpm</i>	
Head loss/100 ft.:	5.45 <i>ft./100 f</i>	ft.
Length of trans. line:	480 <i>ft.</i>	
Multiplier for fittings:	1.2	
Trans. line head loss:	31.41 <i>ft.</i>	

**Total friction head:** 34.76 ft.

TDH:	43.33 <i>ft.</i>
Total flow used:	47 gpm

#### Check dosing volume:

Lateral diameter:1.25 in.Volume/ft. of lateral:0.06 gal/ft.Linear feet of lateral:538 ft.Lateral volume:34.30 gal.

Manifold diameter:2 in.Volume/ft. of lateral:0.16 gal/ft.Linear feet of manifold:19 ft.Manifold volume:3.1005774 gal.

Trans. line diameter: 2 in.

Volume/ft. of trans. line: 0.16 gal/ft.

Linear feet of trans. line: 480 ft.

Trans. line volume: 78.330377 gal.

 Min. dosing volume:
 171.47519 gal.

 Dosing vol. used:
 171.5 gal.

 Doses per day (min. 2):
 4.00

 day + 1 dose ) =
 857.5 gal.

Dosing Tank Minimum Size (1 day + 1 dose) = 857.5 gal.

Size of dosing chamber: 2800 gal.

Volume/in. of chamber: 57.66 gal/in.

Height of storage above dose: 11.90 in.

Set dosing float at: 2.97 in.

Set timer run time at: 3.65 min. 219 seconds

Set hours off at: 6 hours

Tank Height 36 inch bury

Storage 686 gallons 11.90 inch height above dose Dose 172 gallons 2.97 inch dose

10.00 inch wet volume 60.87 inch tank depth

5.1 ft. tank depth



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Fax: 302 855-0812
E-mail: <u>axiom@axeng.com</u>

# GENERAL AND CONSTRUCTION NOTES TO INSTALLER

- 1. The Contractor shall field verify all existing conditions and features prior to construction. All Piping and Fittings shall be *Pressure rated schedule 40 PVC*. No substitutes will be permitted unless noted on the approved plans or approved by the designer prior to construction.
- 2. The Contractor shall field verify all isolation distances prior to initiating construction of system. If discrepancies are found in the field, the Contractor shall immediately contact the designer at the above number.
- 3. Any changes in the specified/approved equipment, i.e. pumps, alarms, timers, etc., shall be approved by the designer prior to construction.
- 4. No System shall be installed during inclement conditions, i.e. rain, snow, saturated conditions, frozen conditions, or any other condition that would create compaction, smearing or destruction of the soil structure in the disposal area.
- 5. The designer is not responsible for the placement of the dwelling or the actual location of the property lines shown on the approved site plan as no perimeter survey was provided or performed by the designer (unless specified on the design drawings).

- 6. All Low Pressure Pipe (LPP) disposal systems must be installed with a trencher. NO LPP SYSTEM WILL BE INSPECTED OR APPROVED BY THE DESIGNER IF INSTALLED WITH A BACKHOE.
- 7. Any changes made to the location of the approved system must have a pre-construction as-built done and approved by The Division of Water Resources at the expense of the contractor. No change shall be made unless approved by the designer and The Division of Water Resources. Any change made to the approved permit without the prior approval of the designer or the Division of Water Resources shall be the responsibility of the Contractor.
- 8. All systems requiring a pump shall be pressure tested by the designer and the Contractor during the final inspection. Any equipment necessary for providing this service, i.e. generator, hoses, water, pressure gauges shall be provided by the Contractor.
- 9. The Contractor or his/her representative shall be present during the final inspection. The Contractor shall notify the designer 48 hours in advance to schedule the final inspection.
- 10. The designer will complete only one site visit for final inspection. Any additional site visits required for designer approval will be billed as an extra to the Contractor and shall be paid prior to initiating the inspection report.
- 11. The system shall be installed based on the approved permit and the regulations and memorandums set forth by the Department of Natural Resources and Environmental Control, Division of Water Resources.



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Fax: 302 855-0812
E-mail: <u>axiom@axeng.com</u>

# GENERAL NOTES TO PROPERTY OWNERS

- 1. Unless otherwise stated in the Department of Natural Resources and Environmental Control (DNREC), Division of Water Resources regulations, all septic tanks shall be pumped every three (3) years. At the time of pumping, the tank shall be inspected for any deficiencies such as: concrete deterioration, cracks, holes, leaking, etc. The baffles should be inspected for cracks, concrete deterioration, etc.
- 2. If a filtering devise has been installed, i.e. Zabel, Webby Bucket, etc., at the time of cleanout and/or per the manufacturers specifications, the device should be rinsed thoroughly into the septic tank with a garden hose and reinstalled. This should be done so that accumulated debris can be pumped out while the waste hauler is there.
- 3. Be absolutely sure that your septic tank stays in good operating condition. Never allow sludge or scum to escape from the septic tank. It will clog your drain tiles and cause the drain field to fail.
- 4. Keep automobiles and all heavy vehicles and equipment off the field and tanks.
- 5. Do not allow stormwater ponding to collect over the field.
- 6. Do not allow downspouts to drain onto or into your drain field or tanks.
- 7. Do not stockpile snow or soil on the drain field and tanks.

- 8. Dense grass cover and other shallow rooted plants are beneficial over a drain field. Think ahead when planting trees and shrubs. Although they promote moisture removal from the drain field, their roots may clog the drain tiles. Check with The DNREC for vegetation that will be helpful to the system.
- 9. Mark the boundaries of your system as a reminder.
- 10.Do not use chemicals to clean or sweeten your system except on the advice of the DNREC.
- 11. Do not use a kitchen garbage disposal.
- 12.Do not place harmful materials in the tanks. Avoid fats, solvents, oils, disinfectants, paints, chemicals, poisons, coffee grounds, paper towels, disposable diapers, sanitary napkins, tampons and condoms.
- 13. Inspect for scum and sludge depth once each year.
- 14. Limit water entering your tanks.
- 15. Use water-saving fixtures, i.e. faucets, showers, toilets, etc. as required by the local building code.
- 16. Do not connect basement sump pump to the tanks.
- 17. Always drain appliances one at a time.
- 18. Spread clothes washing over the entire week and avoid half-loads.
- 19. Always fix faucet and toilet valve leaks.

FAILURE TO FOLLOW THESE REQUIREMENTS AND THE REQUIREMENTS SET FORTH BY THE DNREC, DIVISION OF WATER RESOURCES, WILL RESULT IN A REDUCED LIFE SPAN OF THE SEPTIC SYSTEM, AND INCREASE THE LIKELYHOOD OF FAILURE.



#### Phase 1 wastewater flow

Heir Dara	Units	Daile Dave						
Unit Rate	Phase 1	Daily Days/week Weely flow		START DAY I	_OAD DO	OSE EN	ID DAY	
					D/(I	LOND D	OOL LIV	אל טו
GPD per seat in the church 5 GPD/sea	t 200	1000	1	1000 Sunday		1000	-682	318 SUNDAY
5 GPD/sea	t 40	200	1	200 Wednesday	318	615	-682	251 MONDAY
5 GPD/sea	t 100	500	1	500 Saturday Wedding	251	615	-682	184 TUESDAY
Daycare Kids 10 GPD/per	45	450	5	2250 Mon-Fri	184	815	-682	316 WEDNESDAY
Daycare Staff 15 GPD/per	11	165	5	825 Mon-Fri	316	615	-682	249 THURSDAY
				4775 Gallons per week	249	615	-682	182 FRIDAY
				·	182	<u>500</u>	<u>-682</u>	0 SATURDAY
				7 Days per week equalization		4775	-4775	
	316 Gallons additional storage for		e for equalization					
				682 GPD equalized flow				

57.66 Gallons per inch of 2,800 gallon tank

5.49 inches additional storage required