TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

PERMIT FOR CONSTRUCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

Issued to: Humberto Segovia

Location:
County: Marshall
Address: 1978 Fayetteville Hwy
City: Belfast
Subdivision: ______
Lot #: ______

Map: ______ Group: ______ Parcel: ______

Evaluation Based Upon:
(X) 1. Soil Typing by Soil Scientist
( ) a. General
( ) b. High Intensity
(X) c. Extra High Intensity
( ) 2. Soil Percolation Test
( ) 3. Environmental Scientist
Estimated Absorption Rate: ______ MPI

Type of System:
( ) 1. Conventional
( ) 2. Modified Conventional
( ) 3. Conventional System Substitute
( ) Chamber
( ) Expanded Polystyrene
( ) Large Diameter Gravelless Pipe
Gravel backfill in a 24 in. wide trench required? ______
( ) 4. Low Pressure Pipe
( ) 5. Mound
( ) 6. Lagoon
(X) 7. Subsurface Drip System
( ) 8. Other: ______

Installation:
(X) 1. New Installation
( ) 2. Repair to Existing System
( ) 3. System Modification
( ) 4. Large System

Establishment:
(X) 1. Residential: # Bedrooms 3
( ) 2. Other: ______
Gal/Day: ______

Approval Based Upon: State No. T.C.A. 68-221-403
( ) (c) Percolation Test
( ) (d) Grandfather Clause - Current standards except those specified
( ) (f) 12" (karst) and 6" (non-karst) buffer required
( ) (m) 3rd Party Permit Package
( ) (i) 9" Buffer required (24"-36" total soil depth)
( ) (k) Grandfather Clause - Meets June 30, 1990, standards (repair only)
(X) Current Standards
( ) Other: ______

The system shall consist of a two-compartment septic tank holding ______ (min) gallons, with 2,250 linear feet in ______ trenches, ______ inches wide and 8 (min) to 10 (max) inches in depth. (Depth of gravel: ______ inches)

SIP Depth (in): ______ **SIP Length (ft):** ______
SIP Comments:

General Comments:
See attached engineer design package. All changes for design must be approved by engineer and TDEC. System design is approved for 3 bedroom, tract #2 on attached soil map.

Also Required:
( ) 1. Soil Improvement Practice (SIP)
( ) Curtain Drain
( ) Drawdown Drain
( ) Interceptor Drain
( ) 2. Flow Diversion Valve
(X) 3. Sewage Pump
Pump Flow Rate (gpm): ______
TDH (ft): ______
(X) 4. Single Compartment Pump Tank, Volume (gal): **1,500**
(X) 5. Other: Fuji CE-5 Unit

All installers of subsurface sewage disposal systems must hold a valid annual license from the Tennessee Department of Environment and Conservation.

Please see attached drawing and supporting documentation.

The recipient of this permit agrees to construct or have constructed the above-described system in accordance with T.C.A. 68-221-401 et. seq. and The Regulations To Govern Subsurface Sewage Disposal Systems. If any part of the system is covered before inspected and approved, it shall be uncovered by the recipient of the permit at the direction of personnel of the Department of Environment and Conservation. **Any cutting, filling or alterations of the soil conditions on the aforementioned property after this day may render this approval null and void.**

By: Steve Lomax (DWR Staff)   **Date:** 02/18/2026 (Date of Issue)

This permit is valid for 3 years from date of issue.
This is a permit to construct and is not intended to imply approval of any work proposed or completed on this lot.

KEITH STRAIN
Tract 2, Fayetteville Hwy.
Marshall County

Drip System Design Calculations:

The disposal system will be designed for timed dosing and shall utilize "constant flushing" during dosing periods. Constant flushing shall be controlled by a 1.0" ball valve that is adjusted to supply the drip supply line with ~ 10.5 GPM.

Drip pipe will be Netafim ½" diameter utilizing emitters at 24" spacing (or engineer approved equal), with 0.60 GPH emitters, installed at 24" spacing between lines. Drip supply line shall be 1.5" diameter schedule 40 PVC, and return line shall be 1" schedule 40 PVC.

Normal Dose Flow:
Design Flow = 450 GPD
Dose Rate = 0.1 GPD/SF
Line spacing = 2'
Drip area = 4,500 SF
Zones = 2
Drip Line Length per zone = 1,125 LF
Emitters = 563
Dose Rate = 5.7 GPM

Flush Flow:
Distal Ends = 3
Flow Flush = 4.8 GPM

TOTAL Flow Reqd. = 10.5 GPM

HL Calculations:

Minimum at lateral entrance =	84'
Supply Line – 444' of 1.5" @ 10.5 GPM =	3.4'
Return Line – 415' of 1" @ 4.8 GPM =	5.3'
Disc Filter @ 10.5 GPM =	Neg
1.25 Supply Flow Meter @ 10.5 GPM =	3'
Zone Valve=	2.5'
0.75" Return Flow Meter @ 4.8 GPM =	3.5'
1-inch Ball Valve @ 4.8 GPM =	Neg
Elevation	14'
Misc	5'
TOTAL Required Head	120.7'

Final dose tank shall house one ½ HP STEP20 pump By Pentek (or engineer approved equal).

Minimum dose time:

1. Supply 10.6 gallon/100'/ (47 gallons)
2. Return 4.5 gallon/100' (18.7 gallons)
3. Drip emitter piping (15 gallons)
4. Misc. (5 gallons)

Total line volume to fill = ~ 85.7 Gallons

Fill Time: Supply line (47 gal / 10.5 gpm) + Drip line (15 / 10.5 gpm) + Return line (15/ 4.8 GPM) + misc. (5/ 4.8 gpm) = 10.1 minutes

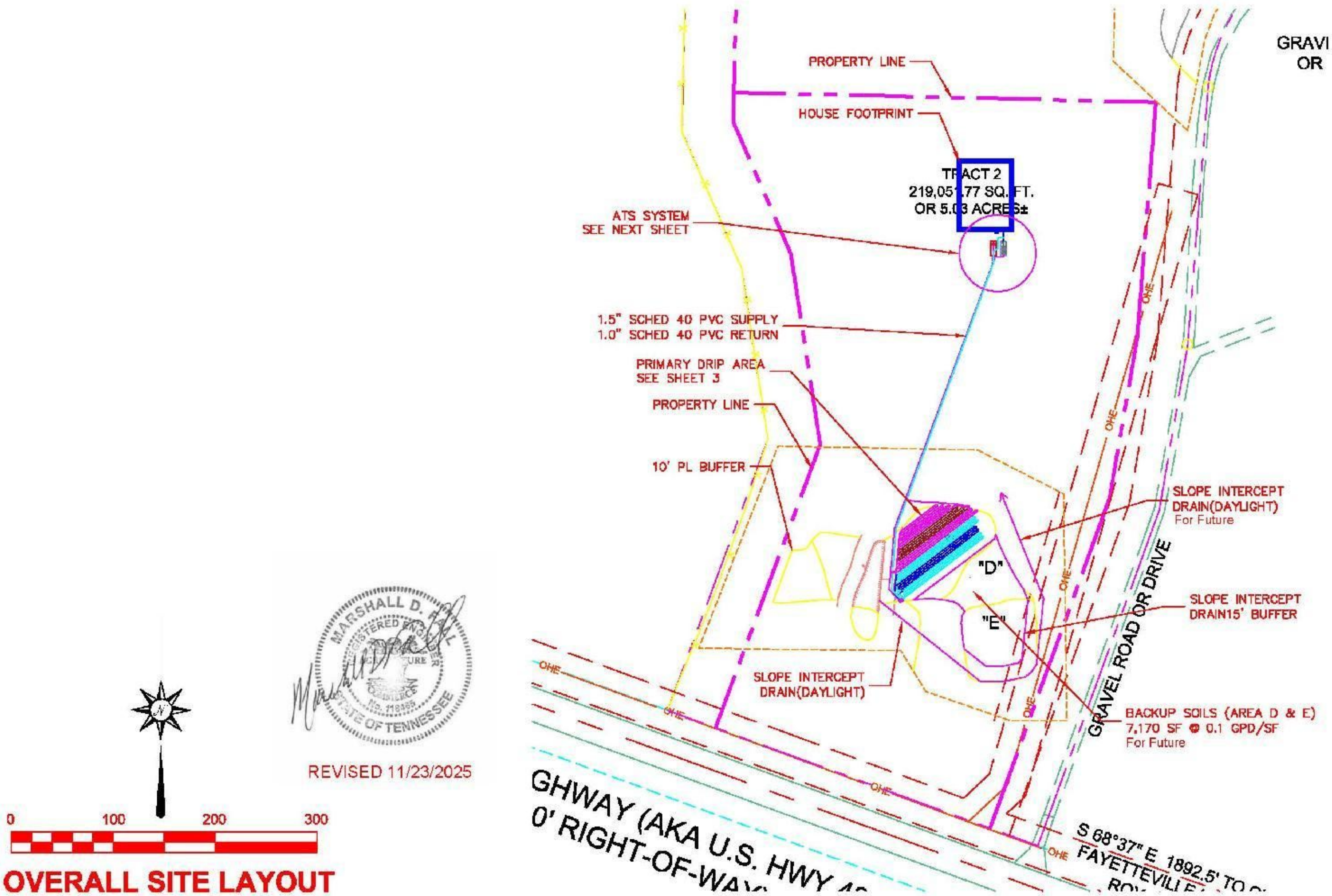
Minimum Dose Time:

Minimum Dose volume= 45 Gallons.

Minimum Dose time= 10.1 min (Fill time) + 45 Gallons / 4.8 GPM (Dose time) **19.5 Minutes**

REVISED 11/23/2025

TriState ENVIRONMENTAL
ENGINEERING & CONSULTING



TriState ENVIRONMENTAL
ENGINEERING & CONSULTING

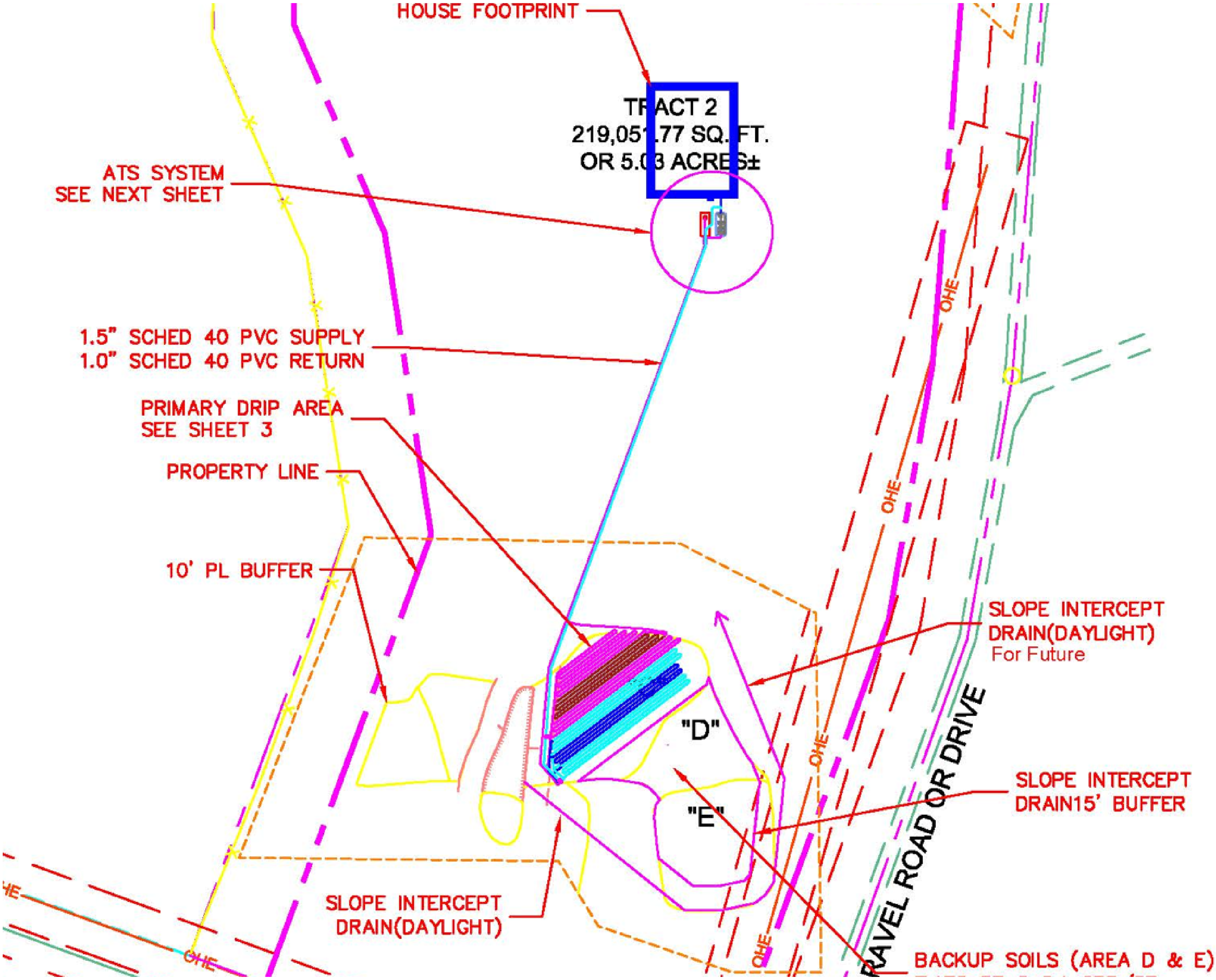
655 Stewart Valley Drive
SMYRNA, TN 37167
P: 615.428.0923

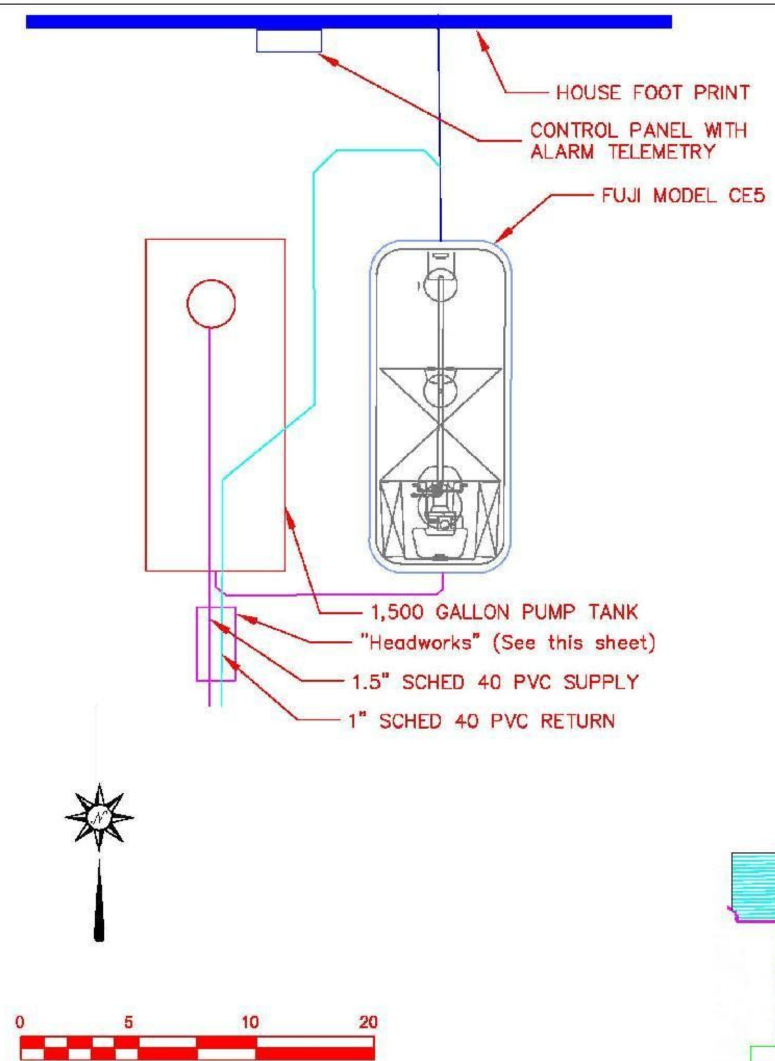
PREPARED FOR:

TRACT NO. 2
FAYETTEVILLE HWY, MARSHALL COUNTY
ATS/SSDS SYSTEM DESIGN

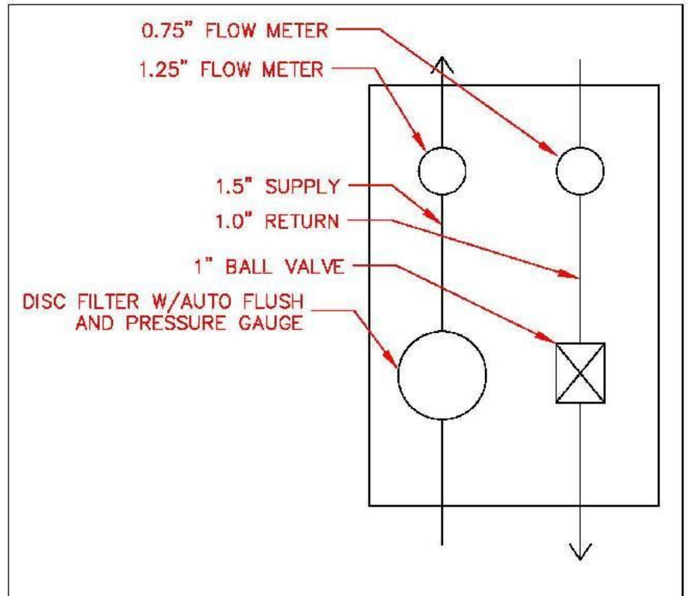
COMMENT
REVISED 11/23/25

SHEET _ OF _

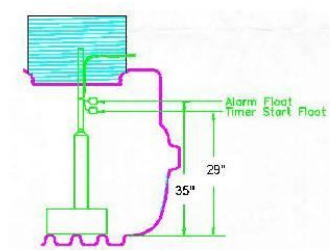

HOUSE FOOTPRINT
TRACT 2
219,051.77 SQ. FT.
OR 5.03 ACRES±
ATS SYSTEM
SEE NEXT SHEET
1.5" SCHED 40 PVC SUPPLY
1.0" SCHED 40 PVC RETURN
PRIMARY DRIP AREA
SEE SHEET 3
PROPERTY LINE
10' PL BUFFER
OHE
SLOPE INTERCEPT
DRAIN(DAYLIGHT)
For Future
"D"
"E"
SLOPE INTERCEPT
DRAIN15' BUFFER
RAVEL ROAD OR DRIVE
SLOPE INTERCEPT
DRAIN(DAYLIGHT)
BACKUP SOILS (AREA D & E)



ATS LAYOUT



HEADWORKS NTS



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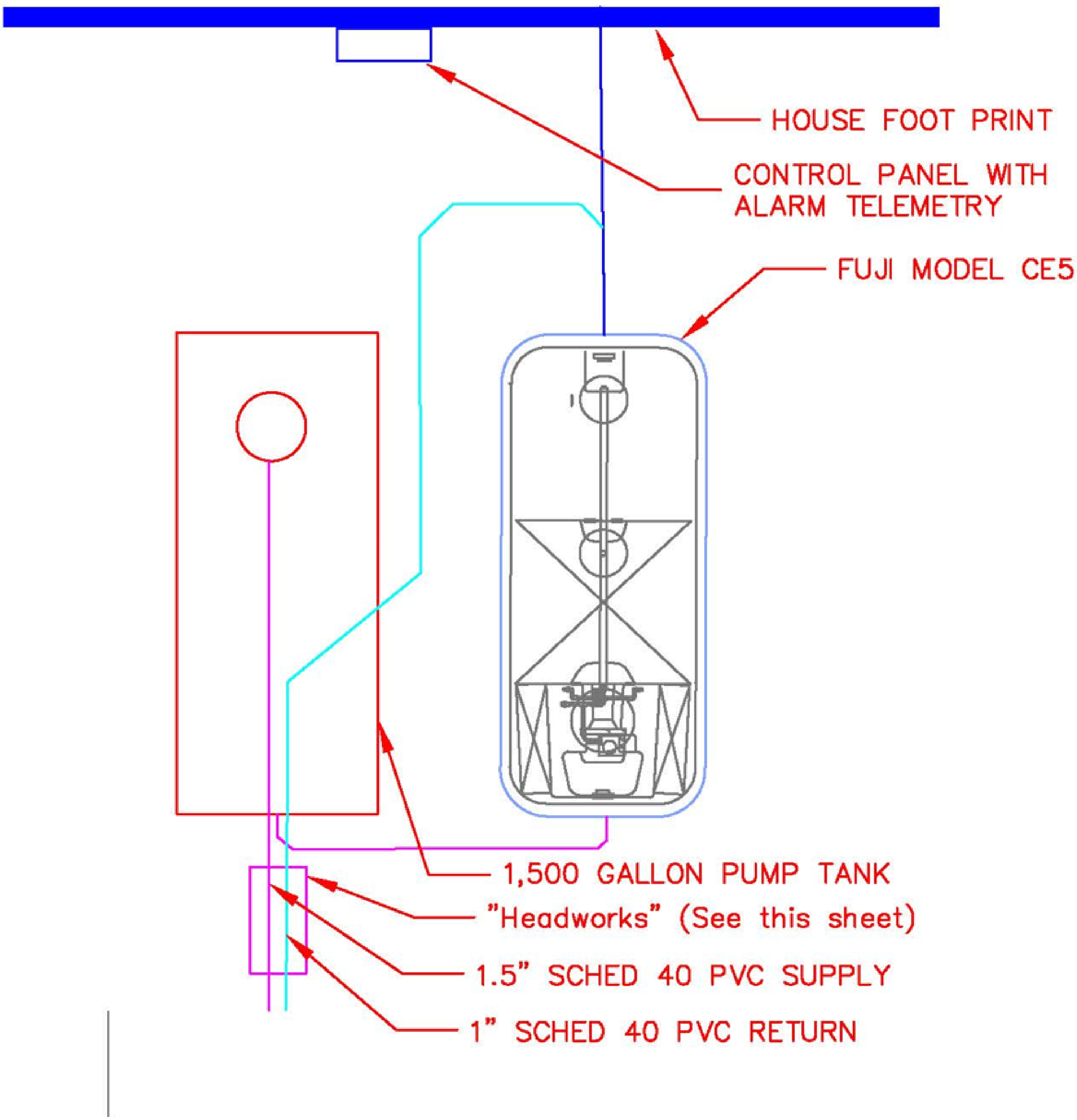
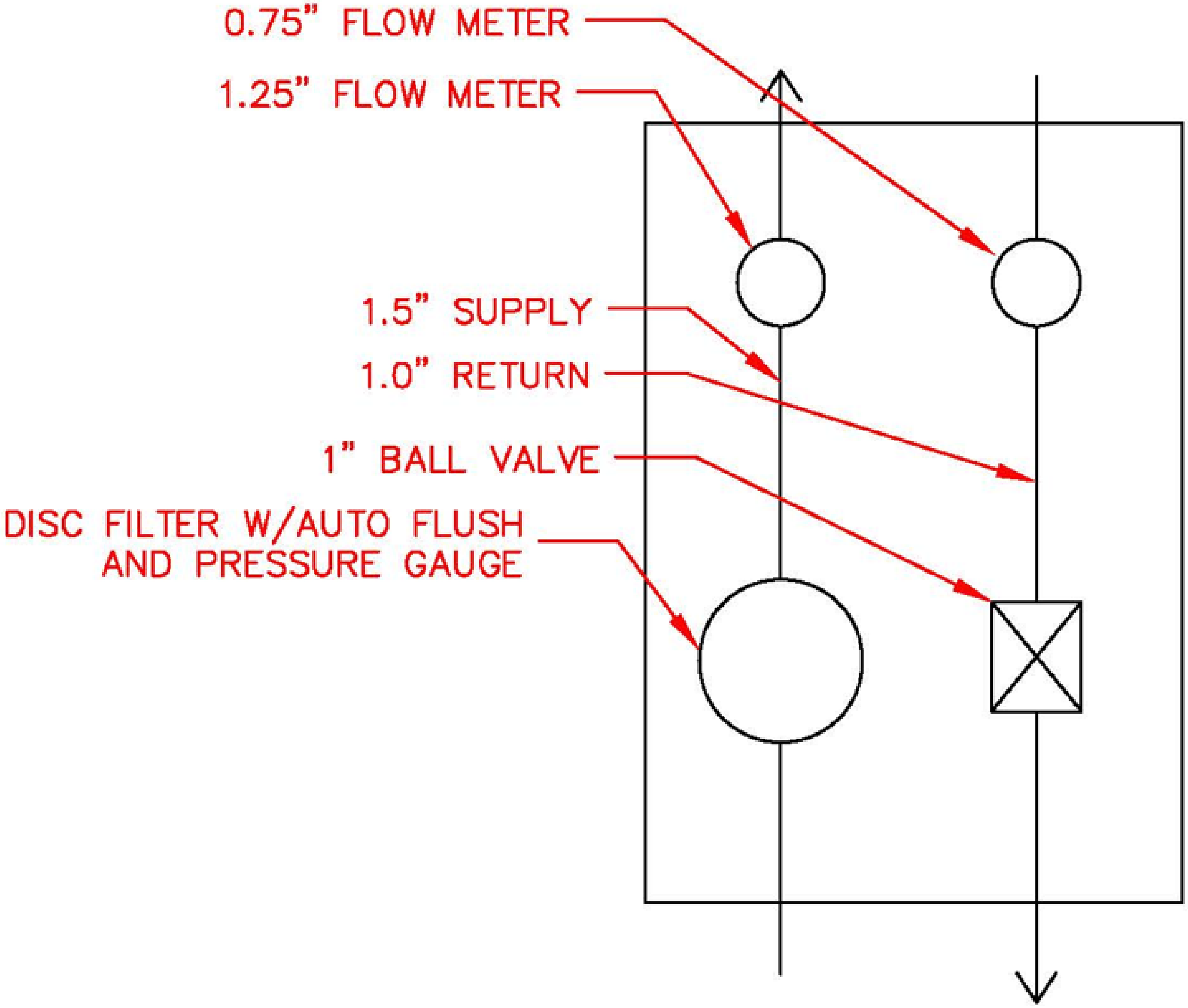


HOUSE FOOT PRINT
CONTROL PANEL WITH ALARM TELEMETRY
FUJI MODEL CE5
1,500 GALLON PUMP TANK
"Headworks" (See this sheet)
1.5" SCHED 40 PVC SUPPLY
1" SCHED 40 PVC RETURN



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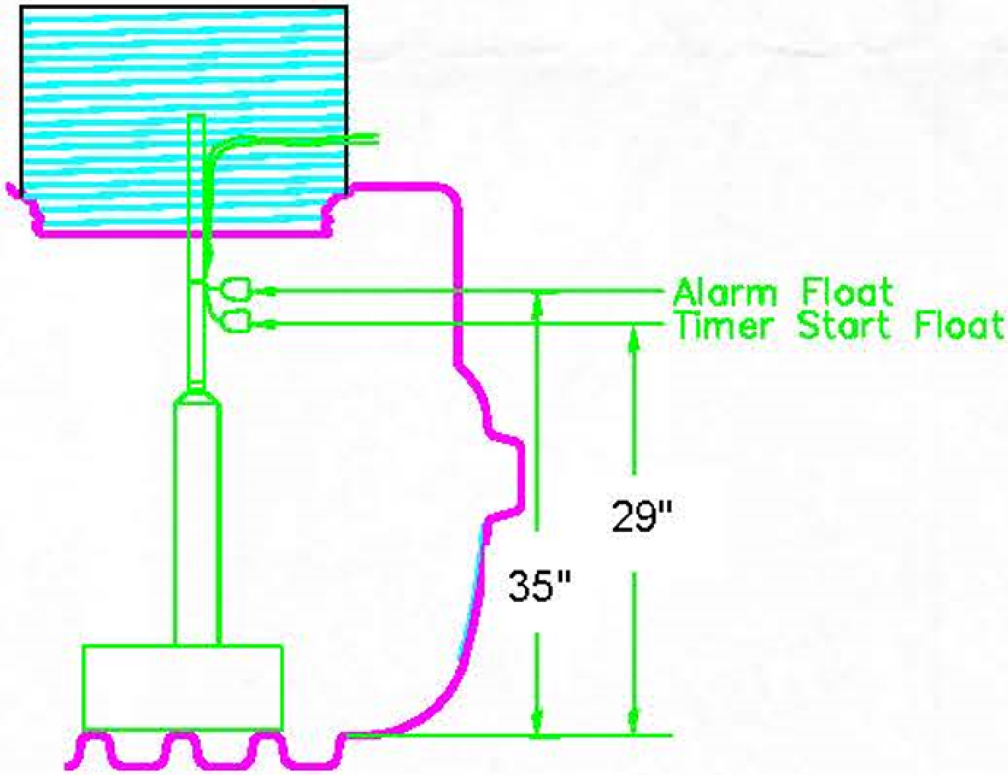
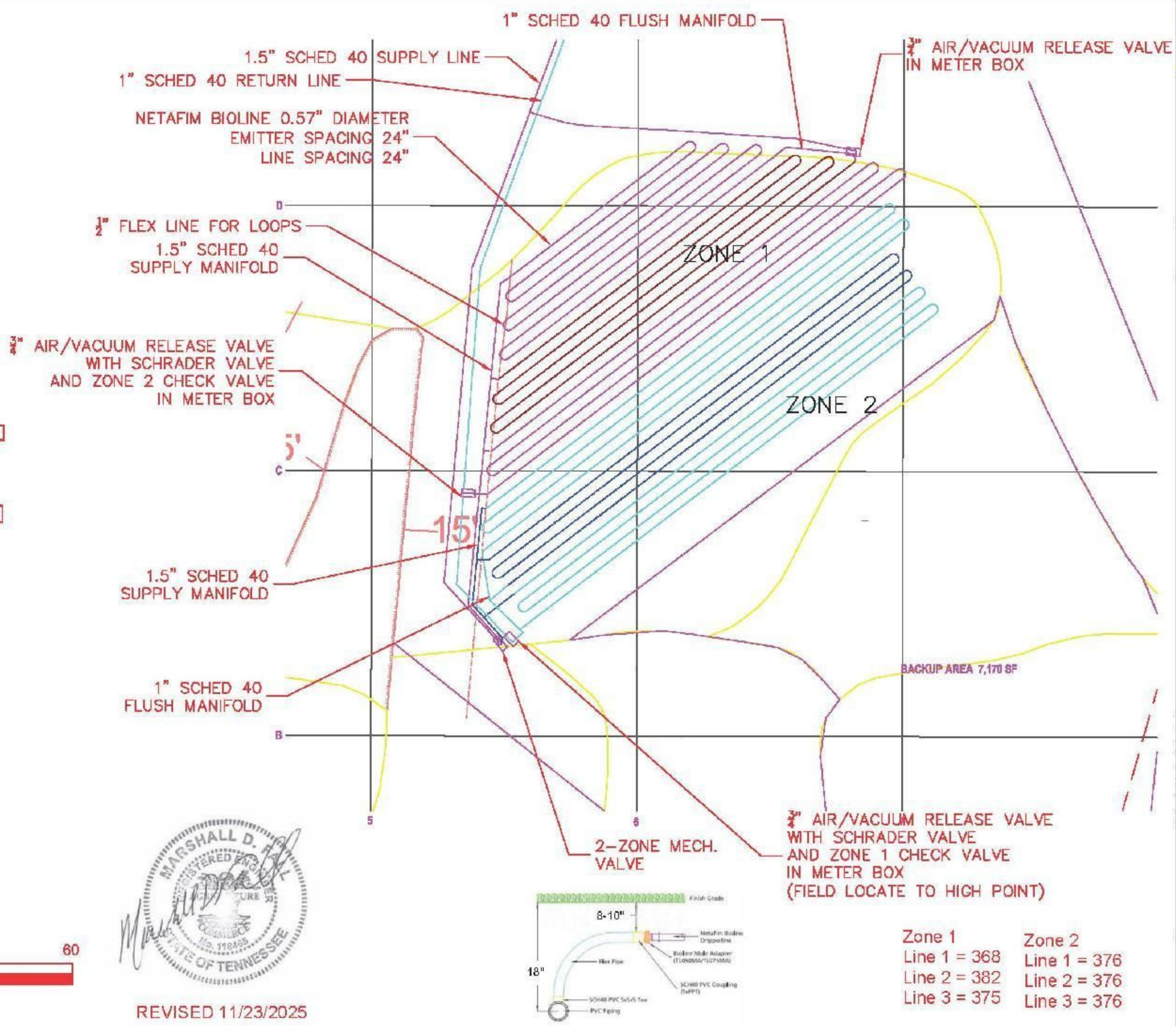

Alarm Float
Timer Start Float
29"
35"

RMT-1500 Capacity Chart

Height (Inches)	Gallons In Tank
0	0
1	14
2	27
3	49
4	71
5	101
6	131
7	163
8	196
9	230
10	264
11	309
12	354
13	396
14	438
15	482
16	526
17	571
18	616
19	656
20	696
21	741
22	786
23	831
24	876
25	919
26	961
27	1003
28	1046
29	1096
30	1146
31	1186
32	1226
33	1271
34	1316
35	1356
36	1396
37	1438
38	1480
39	1510
40	1540
41	1571
42	1601
43	1631
44	1660
45	1685
46	1703
47	1725
48	1742
49	1759
50	1771



0 20 40 60

DRIP LAYOUT

MARSHALL D. FALL
STATE OF TENNESSEE
No. 118468

REVISED 11/23/2025

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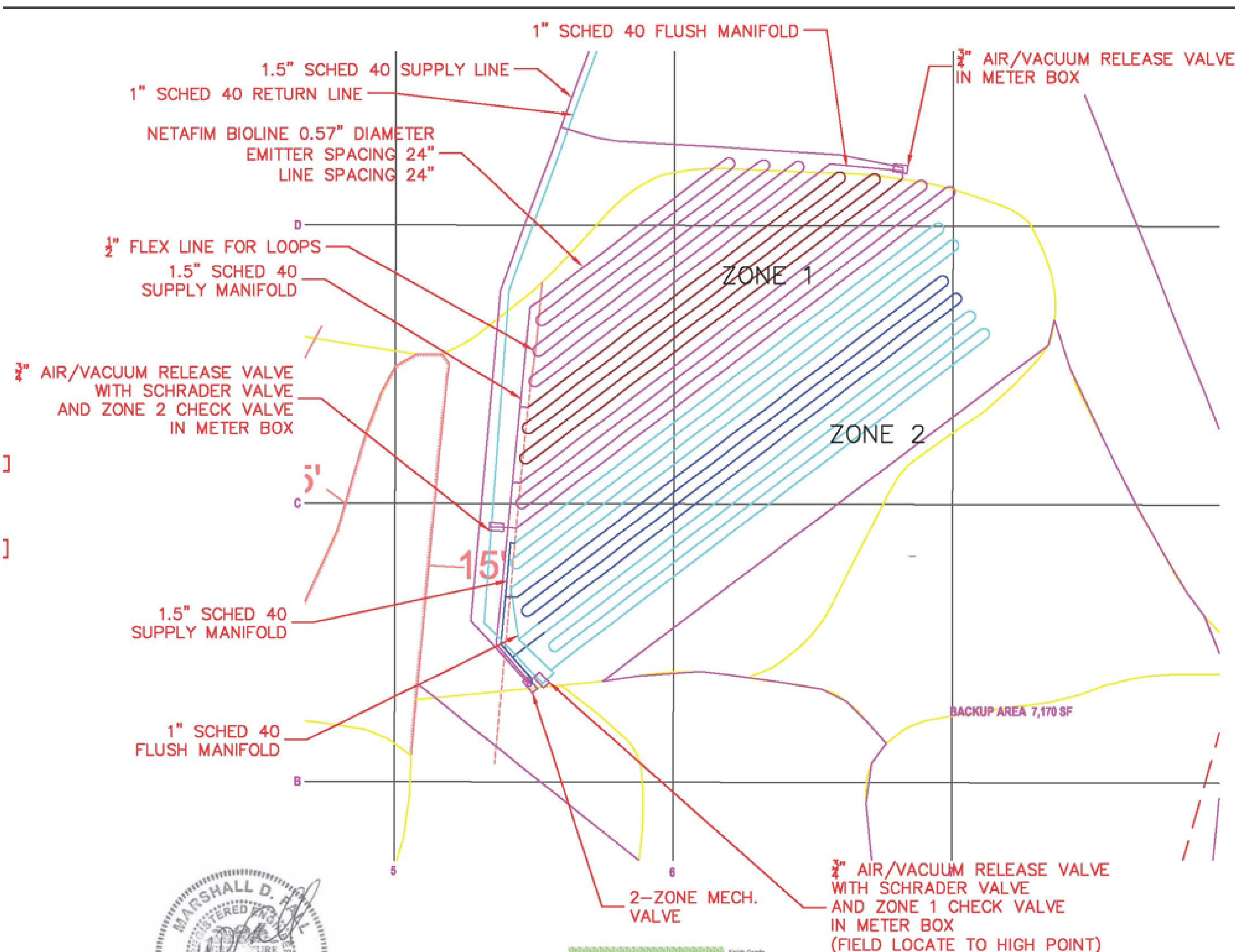
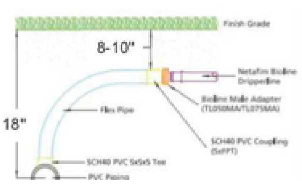




Zone 1	Zone 2
Line 1 = 368	Line 1 = 376
Line 2 = 382	Line 2 = 376
Line 3 = 375	Line 3 = 376

RMT-1500 Capacity Chart

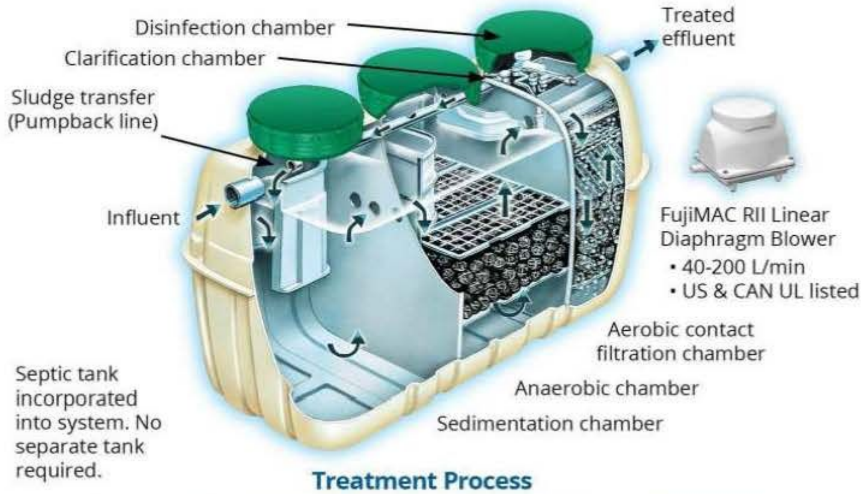
Height (Inches)	Gallons In Tank
0	0
1	14
2	27
3	49
4	71
5	101
6	131
7	163
8	196
9	230
10	264
11	309
12	354
13	396
14	438
15	482
16	526
17	571
18	616
19	656
20	696
21	741
22	786
23	831
24	876
25	919
26	961
27	1003
28	1046
29	1096
30	1146
31	1186
32	1226
33	1271
34	1316
35	1356
36	1396
37	1438
38	1480
39	1510
40	1540
41	1571
42	1601
43	1631
44	1660
45	1685
46	1703
47	1725
48	1742
49	1759
50	1771

Model CE & CEN Series

Technical Specification Sheet

FujiClean advantages:

- RIDEM Category 1 Approved
- Over 2 million installed systems worldwide
- 1-tank system - no septic tank necessary
- No moving parts in tank
- Built-in equalization - levels variable inflow
- NSF 40 and 40/245 certified
- TN removal to 70+% with CEN models
- Smallest footprint vs. competitors
- Lowest power use vs. competitors
- Lightweight tank - easy installation
- Quick and easy O&M - no mess
- Rapid startup and restart for seasonal homes



Treatment Process

Design Specification Table	CE Series BOD, TSS, TN*							CEN Series BOD, TSS, Enhanced TN				
Model:	**CE5**	**CE7**	**CE10**	**CE14**	**CE21**	**CE30**	**CE6KG**	**CEN5**	**CEN7**	**CEN10**	**CEN14**	**CEN21**
Load Hydraulic (GPD)	500	700	1,000	1,350	1,900	2,700	6,000	500	700	1,000	1,350	1,900
Effluent (assumes domestic strength influent):												
BOD – Effluent (mg/L)	! 20	! 20	! 20	! 20	! 20	! 20	! 20	! 10	! 10	! 10	! 10	! 10
BOD (Removal Lbs./Day)	.52	.73	1.04	1.46	2.08	3.12	6.93	.69	.97	1.38	1.86	2.9
TSS (mg/L)	! 20	! 20	! 20	! 20	! 20	! 20	! 20	! 10	! 10	! 10	! 10	! 10
TN (mg/L)	! 20	! 20	! 20	! 20	! 20	! 20	! 20	! 10	! 10	! 10	! 10	! 10
Blower Detail:												
Blower Model	80RII	80RII	100RII	150RII	200RII	150RII (2)	200RII (4)	80RII	100RII	150RII	200RII	150RII (2)
Normal Pressure (kPa)	15	15	18	20	20	20	20	15	18	20	20	20
CFM; L/Min	2.8 CFM 80 L/MIN	2.8 CFM 80 L/MIN	3.5 CFM 100 L/MIN	5.3 CFM 150 L/MIN	7.0 CFM 200 L/MIN	10.6 CFM 300 L/MIN	28.0 CFM 800 L/MIN	2.8 CFM 80 L/MIN	3.5 CFM 100L/MIN	5.3 CFM 150 L/MIN	7.0 CFM 200 L/MIN	10.6 CFM 300 L/MIN
Power Use (kWh/day)	1.2	1.2	1.7	2.7	3.7	5.4	14.8	1.2	1.7	2.7	3.7	5.4
Weight (lbs.)	11	11	11	20	20	20 x 2	20 x 4	11	11	20	20	20 x 2
Outlet Diameter OD-inches)	0.70	0.70	0.70	1.0	1.0	1.0	1.0	0.70	0.70	1.0	1.0	1.0
Tank Detail:												
Material	Fiber-reinforced plastic							Fiber-reinforced plastic				
Height (inches)	61.8	65.4	73.2	77.4	81.3	87.2	87.2	65.4	73.2	77.4	81.3	87.2
Length (inches)	85	95.7	98.8	118.9	152.8	183.7	434.7	95.7	98.8	118.9	152.8	183.7
Width (inches)	43.7	49.2	56.7	68.9	72.4	78.3	115.3	49.2	56.7	68.9	72.4	78.3
Weight (lbs.)	397	463	705	926	1,168	1,543	2,900	463	705	926	1,168	1,543
Inlet Invert (inches)	49	53	61	62	65	71	67	53	61	62	65	71
Outlet Invert (inches)	47	51	59	59.5	63	69	64	51	59	59.5	63	69
Access Ports (number)	3	3	3	3	3	3	7	3	3	3	3	3
Access Port Diameter (inches)	3@20"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	4@24"x24" 3@24"x48"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"
Volume Total (gallons)	545	749	1,069	1,498	2,252	3,199	7,267	749	1,069	1,498	2,252	3,199

** TN removal for CE systems based on field testing. Contact Fuji Clean USA for details.*

FujiClean USA™ Toward Clean Water…

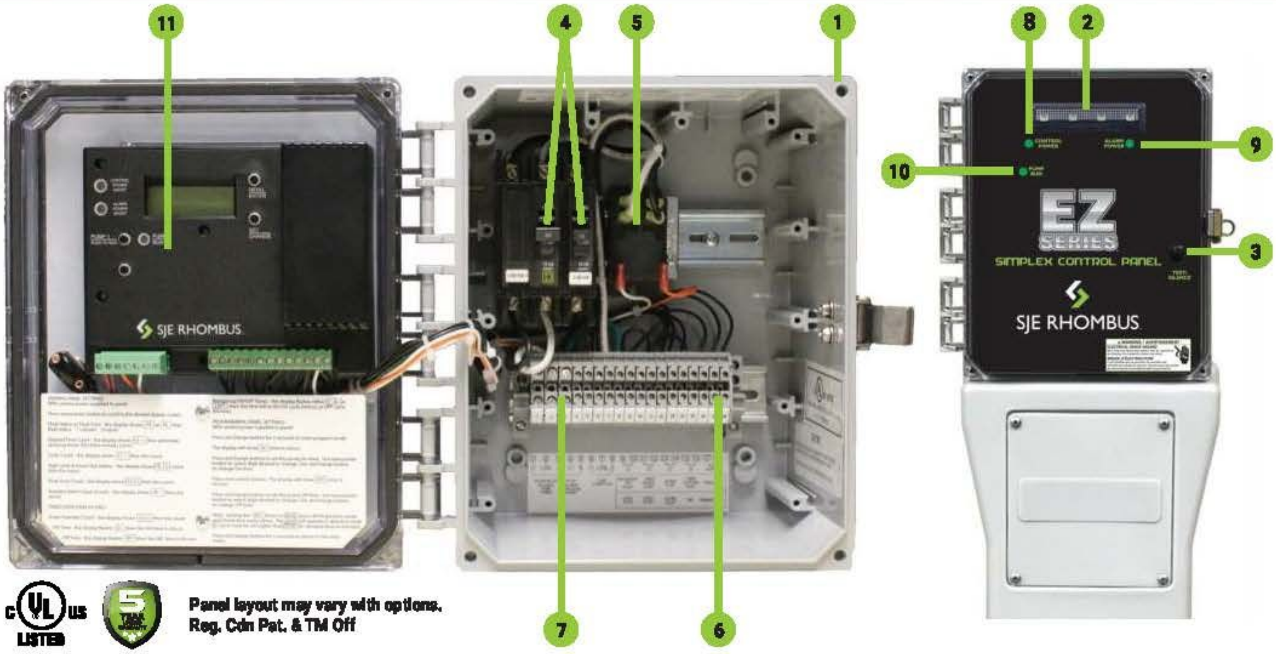
Control Panel Options

FujiClean Model / Features	A	A1	C	X	D	RI	RI2	E	M	KG	Suffolk	AR
Description	**Basic Alarm Panel.** 1. Alarms for high water and blower off. 2. Pressure switch. 3. Ideal if blower is relatively close to panel. 4. Extra breaker to run discharge pump 5. Default panel for all Fuji Clean systems if no panel is specified.	**Basic Alarm Panel w/ Current Sensor** 1. Identical to Panel "A" but with a current sensor instead of pressure switch. 2. Ideal if blower is relatively far from panel.	**Basic Alarm w/ Comm. Contact & Time Meter** 1. Same features as "A" Panel but with relay (for autodialer, remote alarm etc.) 2. Elapsed time meter for discharge pump showing total run time. 3. Typical New Jersey panel	**Basic Alarm with 24-Hour Timer (Night Spray)** 1. Same features as "A" Panel but with dose timer (example: to be used with discharge pump to dose field at night). 2. Dual alarm beacons. Red for high water. Amber for blower. 3. Typical Texas panel	**Duplex Time Dosing** 1. Program pump dosing with inexpensive data logging option. Records such items as discharge pump cycles and elapsed run time, alarm frequency etc. 2. Can control up to 2 pumps. 3. Can choose pressure switch or current sensor	**Simplex Time Dosing** 1. Same features as "Duplex" Panel but can control only 1 discharge pump.	**Simple Event Counter** 1. Same features as "A1" but with event counter to "count" discharge pump runtime events. 2. Includes HOA switch for discharge pump testing and calibration. 3. Typical Rhode Island panel.	**Duplex Dosing Control w/ Data Logging** 1. Same features as Panel "D" but with ability to log data and print output reports.	**Basic Alarm Panel for Large Systems** 1. Same features as "A1" Panel but with capacity for 2 blowers.	**Basic Alarm Panel for Model CE6KG** 1. Same features as "A1" Panel but with capacity for 4 blowers.	**Basic Alarm Panel with Current Sensor and Latch** 1. Same features as "A1" Panel but with door latch in addition to screws.	**Basic Alarm Panel with HOA** 1. Same features as "A" Panel but with HOA switch for pump discharge pump testing and calibration. 2. Typical Arkansas panel.
SJE Rhombus Model #	1041972	1070519	1045040	1029522	IFS41W914X6A8AC10E27D	IFS11W114H6A8AC15A17G27D w/current sensor	1070525	I-41W914X6A8AC10E27D	1059296	3P2833	1069483	1069564
NEMA 4X Weather Proof Enclosure	X	X	X	X	X	X	X	X	X	X	X	X
120 Volt AC Breakers (Pump, Air Pump, Alarm)	3	3	3	3	3	3	3	3	4	3	3	3
Alarm/Test/ Normal/Silence Switch	X	X	X	X	X	X	X	X	X	X	X	X
Low Pressure Alarm Switch	X		X	X	X	X*						X
Current Sensor Alarm Switch		X				X*	X	X	X (2)	X(4)	X	
Communication Contacts (Alarm Aux)			X		X	X		X	X			
Elapsed Time Meter			X		X	X		X				
Duplex Pump Demand or Timed Dosing Control					X	X		X				
24-Hour Timer				X	X	X						
Dual Alarm Beacons				X								
Data Logging (Screen Display)					X	X						
Data Logging Panel via USB Port to Flash Drive								X				
UL Listed to Meet and/or Exceed Industry Safety Standards					X	X		X				
Dual Safety Certification for U.S and Canada					X	X		X				

* Can select either pressure switch or current sensor

EZ SERIES® SINGLE PHASE SIMPLEX

Single Phase, Simplex Demand Dose or Timed Dose Float Controlled System for Pump Control and System Monitoring



Panel layout may vary with options.
Reg. Cdn Pat. & TM Off

The EZ Series® simplex control panel is designed to control one 120, 208, 240 VAC single phase pump in water and sewage installations.

The EZ Series® simplex control panel features a backlit LCD display on the inside of the front cover for programming and system monitoring, including: float status, elapsed time pump run, cycle counter, alarm counts (high water/power fail), float error count, auxiliary alarm counter, timer override count (TD only).

The panel configuration can be easily converted in the field to either a timed dose or demand dose.

Optional mounting post has removable access door for easy wiring. The post can be mounted in the ground directly, over a 4x4, or conduit. This panel is available with optional duo alarm for local code compliance; and optional EZconnex® float connection system.

COMPONENTS

1. Enclosure base measures 10 x 8 x 6 inches (25.4 x 20.32 x 15.24 cm); NEMA 4X enclosure (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use) includes locking latch as standard
2. Red alarm beacon provides visual check of alarm condition
3. Exterior Alarm Test/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
4. Two circuit breakers: one for pump power, another for control and alarm power
5. Power relay controls pump by switching electrical lines
6. Float connection terminal block with auxiliary alarm contact
7. Incoming control/alarm power & pump power terminal block
8. Control Power indicator light
9. Alarm Power indicator light
10. Pump Run indicator light
11. Simplex controller (touch safe housing) for pump control:
    a. Backlit LCD display shows system information including: pump elapsed time (hh:mm), pump events (cycles), and alarm condition (counts)
    b. Menu/Enter button used for viewing panel settings
    c. Set/Change button used for programming panel settings
    d. Pump Push To Run momentary switch - pump activates when pressed
    e. Control and Alarm Power - shorted condition indicators
12. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating - located inside panel on cover, not shown)

Note: Options, voltage, and amp range selected may change enclosure size and component layout.

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

SJE RHOMBUS.

EZ Series® - Single phase, simplex demand dose or timed dose float controlled system for pump control and system monitoring.

EZS		1	W			4		3A6A8AC10E15A
CONTROL PANEL	MODEL TYPE	ALARM PACKAGE	ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	FLOAT SWITCH APPLICATION	OPTIONS (LISTED BELOW)

CONTROL PANEL	✓	EZS		
MODEL TYPE		1	Simplex Timed Dose (Includes Options 3A6A8AC10E15A as standard)	
		2	Simplex Demand Dose (Includes Option 3A6A8AC10E15A as standard)	
ALARM PACKAGE	✓	1	Alarm Package (includes test/silence switch, fuse, red light, & horn)	
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)	
STARTING DEVICE		1	120/208/240V	
		9	120V only	
PUMP FULL LOAD AMPS		0	0 - 7 FLA	
		1	7 - 15 FLA	
		2	15 - 20 FLA	
PUMP DISCONNECTS	✓	4	Circuit Breaker(s) 120V (select STARTING DEVICE Option 9 above)	
			Circuit Breaker(s) 120/208/240V (select STARTING DEVICE Option 1 above)	
FLOAT SWITCH APPLICATION		H	Floats - Pump Down (select Option 17 below) Timed dose = timer enable and alarm / Demand dose = stop, start, and alarm	
		E	EZconnex® Float Switch System (select Option 33, 35 or 36 below)	Timed Dose Demand Dose
		X	No Floats	Timed Dose Demand Dose

PRICING WORKSHEET

EZS Simplex Base Price	
Alarm Package	______
Enclosure Rating	______
Starting Device	______
Pump Full Load Amps	______
Pump Disconnects	______
Float Switch Application	______
Total Options	______
TOTAL LIST PRICE	______

	OPTIONS	DESCRIPTION
	1J	Duo Alarm Inputs
✓	3A	Alarm Flasher (Included as standard)
	4A	Redundant Off (Timed Dose Float Panel Only) (must also select Option 4D if floats are required)
	4D	Redundant Off Float (must also select Option 4A and Option 17)
✓	6A	Auxiliary Alarm Contact, Form A (Included as standard)
✓	8AC	Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter (included as standard)
✓	10E	Lockable Latch - NEMA 4X (Included as standard)
	10P	Mounting Post (Factory installed with 2.5" cord seal)
✓	15A	Control/Alarm Circuit Breaker (Included as standard)
	16A	10' Cord in Lieu of 20' Cord (per Float)
	16B	15' Cord in Lieu of 20' Cord (per Float)
	16C	30' Cord in Lieu of 20' Cord (per Float)
	16D	40' Cord in Lieu of 20' Cord (per Float)
	17C	Sensor Float® / Internally Weighted (per Float) - Mercury
	17D	Sensor Float® / Externally Weighted (per Float) - Mercury
	17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical
	17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical
	17J	Sensor Float® / Pipe Clamp (per Float) - Mercury

OPTIONS	DESCRIPTION
18A	Timer Override Float (Timed Dose Float Panel Only)
22G	2 1/2" Hub Installed with 6 Hole Cord Seal
33D ■	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
33E ■	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp
33G ■	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp
33H ■	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp
35D ■	EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp (Timed Dose Only)
35E ■	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp (Timed Dose Only)
35G ■	EZconnex® 4-Port, 25', with 20' Floats (4) / Pipe Clamp (Timed Dose Only)
35H ■	EZconnex® 4-Port, 50', with 20' Floats (4) / Pipe Clamp (Timed Dose Only)
36D ■	EZconnex® 3-Port, 25', with 10' Floats (2) / Pipe Clamp, Sealing Plug
36E ■	EZconnex® 3-Port, 50', with 10' Floats (2) / Pipe Clamp, Sealing Plug
36G ■	EZconnex® 3-Port, 25', with 20' Floats (2) / Pipe Clamp, Sealing Plug
36H ■	EZconnex® 3-Port, 50', with 20' Floats (2) / Pipe Clamp, Sealing Plug

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections

Part #	Pre-configured Panels for Easy Ordering
1030771	EZS21W114X3A6A8AC10E15A
1052607	EZS11W114H3A6A8AC10E15A17G

STA-RITE® ST.E.P Plus Series

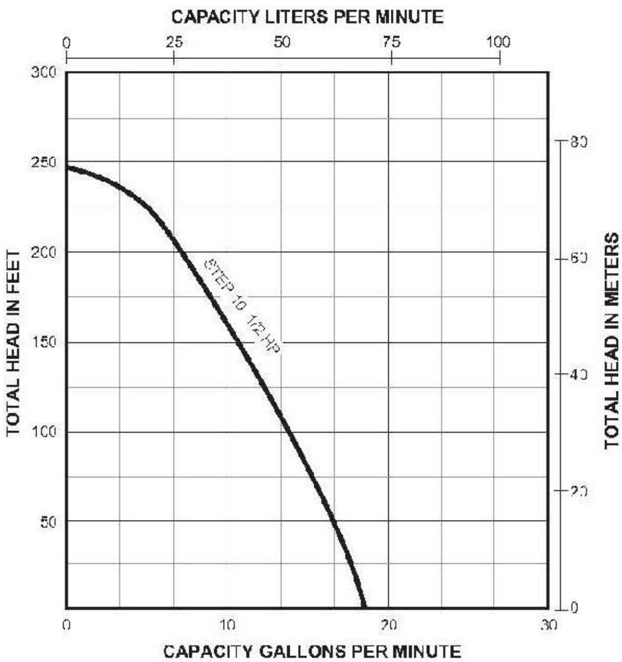
4" high-head multi-stage submersible effluent pumps

ORDERING INFORMATION								
CATALOG NUMBER	HP	STAGES	MAX. LOAD AMPS	VOLTS	PHASE/ CYCLES	CORD LENGTH	PUMP END LENGTH	PUMP + MOTOR LENGTH
STEP10	1/2	7	12.0	115	1/60	10'	13"	21-1/2"
STEP10X100FT-05121	1/2	7	12.0	115	1/60	100'	13"	21-1/2"
STEP10X30FT	1/2	7	12.0	115	1/60	30'	13"	21-1/2"
STEP10X50FT	1/2	7	12.0	115	1/60	50'	13"	21-1/2"
STEP20	1/2	5	12.0	115	1/60	10'	13-1/4"	22-1/4"
STEP20X30FT	1/2	5	12.0	115	1/60	30'	13-1/4"	22-1/4"
STEP20X50FT	1/2	5	12.0	115	1/60	50'	13-1/4"	22-1/4"
STEP30-05121	1/2	3	9.5	115	1/60	10'	11-1/2"	22-1/2"
STEP30X30-05121	1/2	3	12.0	115	1/60	30'	11-1/2"	22-1/2"
STEP30X50-05121	1/2	3	12.0	115	1/60	50'	11-1/2"	22-1/2"
STEP30-05221	1/2	3	4.7	230	1/60	10'	11-1/2"	22-1/2"
STEP30X100-05221	1/2	3	4.7	230	1/60	100'	11-1/2"	22-1/2"
STEP30X30-05221	1/2	3	4.7	230	1/60	30'	11-1/2"	22-1/2"
STEP30X50-05221	1/2	3	4.7	230	1/60	50'	11-1/2"	22-1/2"
STEP30-10221	1	5	9.1	230	1/60	10'	14"	27-1/2"
STEP30X100-10221	1	5	9.1	230	1/60	100'	14"	27-1/2"
STEP30X30-10221	1	5	9.1	230	1/60	30'	14"	27-1/2"
STEP30X50-10221	1	5	9.1	230	1/60	50'	14"	27-1/2"
STEP30-15221	1-1/2	6	11.0	230	1/60	10'	15-1/4"	30-1/4"
STEP30X100-15221	1-1/2	6	11.0	230	1/60	100'	15-1/4"	30-1/4"
STEP30X30-15221	1-1/2	6	11.0	230	1/60	30'	15-1/4"	30-1/4"
STEP30X50-15221	1-1/2	6	11.0	230	1/60	50'	15-1/4"	30-1/4"
STEP50-05121	1/2	2	9.1	115	1/60	10'	11-1/4"	21-1/2"
STEP50-05221	1/2	2	9.1	230	1/60	10'	11-1/4"	21-1/2"
STEP50-10221	1	3	9.1	230	1/60	10'	13-1/4"	26-3/4"
STEP50X100FT-10221	1	3	9.1	230	1/60	100'	13-1/4"	26-3/4"
STEP50X30FT-10221	1	3	9.1	230	1/60	30'	13-1/4"	26-3/4"
STEP50X50FT-10221	1	3	9.1	230	1/60	50'	13-1/4"	26-3/4"
STEP50-15221	1-1/2	4	11.0	230	1/60	10'	15-1/4"	30-1/4"
STEP50X100FT-15221	1-1/2	4	11.0	230	1/60	100'	15-1/4"	30-1/4"
STEP50X30FT-15221	1-1/2	4	11.0	230	1/60	30'	15-1/4"	30-1/4"
STEP50X50FT-15221	1-1/2	4	11.0	230	1/60	50'	15-1/4"	30-1/4"

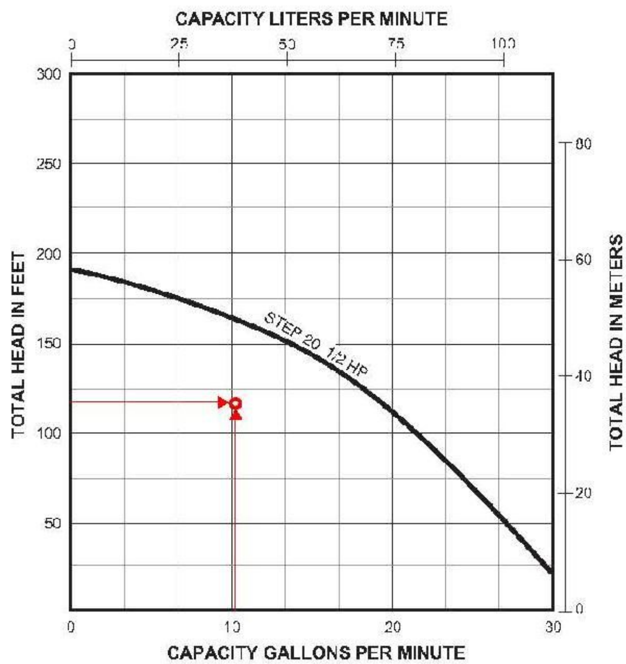
STA-RITE® ST.E.P Plus Series

4" high-head multi-stage submersible effluent pumps

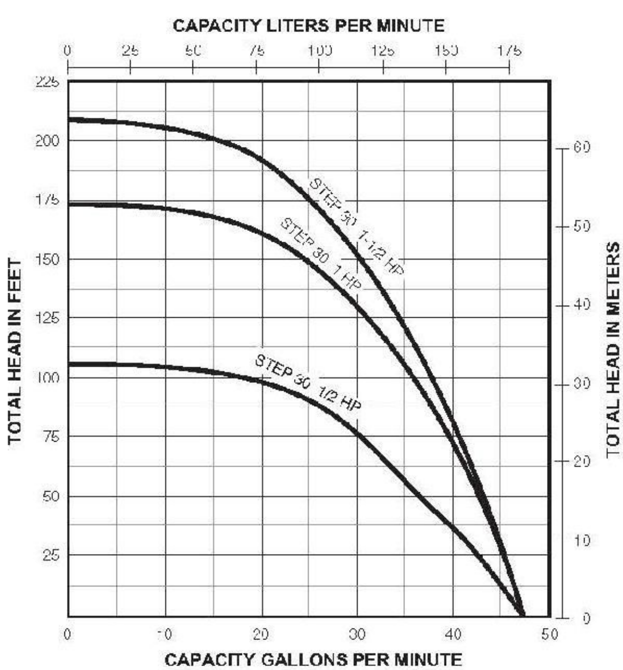
PUMP PERFORMANCE – 10 GPM



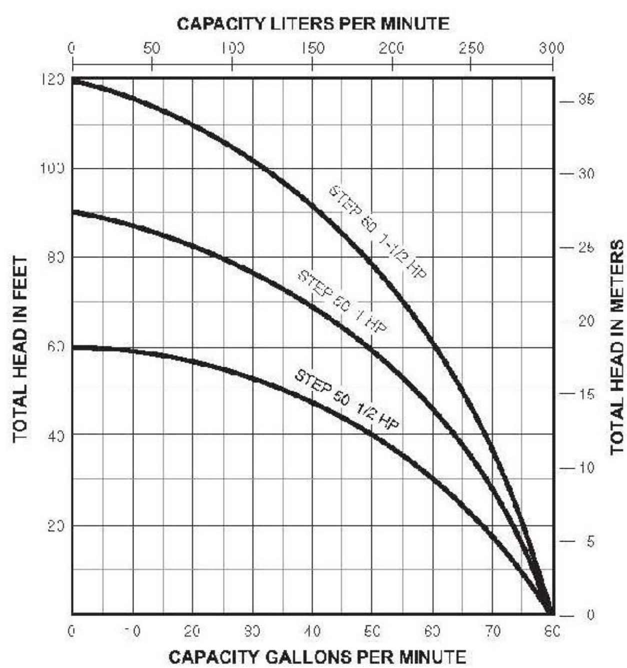
PUMP PERFORMANCE – 20 GPM



PUMP PERFORMANCE – 30 GPM



PUMP PERFORMANCE – 50 GPM



PENTAIR

293 WRIGHT STREET DELAVAN WI 53115 WWW.STA-RITE.COM PH: 888-782-7483 ORDERS FAX: 800-426-9446

S11411WS (11/17/17)

MANUAL DISC FILTERS

RELIABLE, EFFICIENT PLASTIC DISCS CREATE SUPERIOR FILTRATION

3/4" 1" 2" DUAL LITE

PRODUCT ADVANTAGES

- Highly effective multiple disc ring design captures and holds more debris.
- Greater holding capacity of the rings vs. screen filters mean less frequent cleaning.
- Rings are easily removed for fast cleaning without the need for scrubbing.
- Color-coded disc rings make identification of mesh rating fast and easy.

APPLICATIONS

- Primary irrigation filter for relatively clean or average water quality
- Protection of irrigation systems from clogging and/or abrasion

MESH/MICRON

MESH	MICRON	DISC COLOR
040	400	Blue
080	200	Yellow
120	130	Red
140	115	Black
200	55	Green

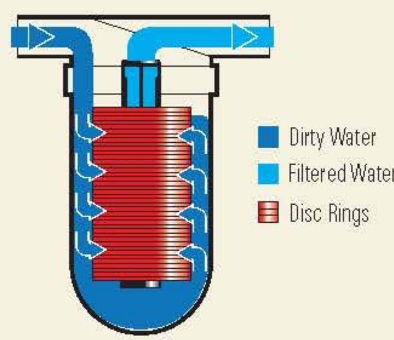
Substitute *** in Model Number for proper mesh.

THE FILTERING PROCESS

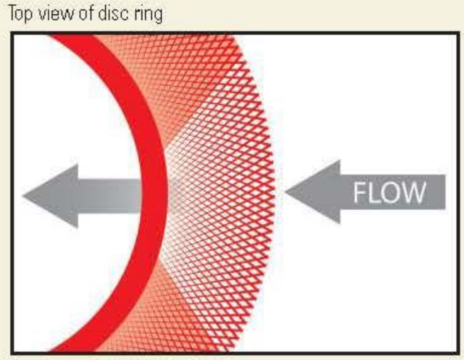
Grooved, compressed plastic disc rings produce a deep filtration process. As dirty water is pumped into the filter and pressure increases on the outside of the filter, the water pressure compresses the rings together tightly.

Grooves in the disc rings crisscross, forming a three dimensional network that traps particles. The number of crisscrossed intersection points on each groove varies, depending on filtration grade. The turbulence in the varying paths and the large number of intersections create an environment where particles are eventually trapped.

This design filters the dirty water thoroughly, not only on the outer surface of the cylindrical disc filter, but through the entire depth of every ring's grooves. The result is a larger, more efficient filtering area (when compared to screen filters) with more debris being captured and cleaner water exiting from the filter.



Top view of disc ring



MANUAL DISC FILTERS

3/4" FILTER	
FLOW RANGE	1 - 12 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	25 sq. in.
FILTERING VOLUME	5.8 cu. in.
LENGTH	5 22/32"
WIDTH	7 15/32"
WEIGHT	.66 lbs.
DISTANCE BETWEEN ENDS	6"
INLET/OUTLET DIAMETER	3/4" Male
MODEL NUMBER	25A45-***

1" FILTER	
FLOW RANGE	5 - 26 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	49 sq. in.
FILTERING VOLUME	27 cu. in.
LENGTH	9 11/32"
WIDTH	6 7/32"
WEIGHT	2.2 lbs.
DISTANCE BETWEEN ENDS	6 7/32"
INLET/OUTLET DIAMETER	1" Male
MODEL NUMBER	25A47-***

1" SUPER FILTER	
FLOW RANGE	10 - 35 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	78 sq. in.
FILTERING VOLUME	36 cu. in.
LENGTH	13 13/32"
WIDTH	6 7/32"
WEIGHT	3.11 lbs.
DISTANCE BETWEEN ENDS	6 7/32"
INLET/OUTLET DIAMETER	1" Male
MODEL NUMBER	25A48-***

2" DUAL LITE FILTER	
FLOW RANGE	40 - 110 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	147 sq. in.
FILTERING VOLUME	75.7 cu. in.
LENGTH	16 5/16"
WIDTH	10 1/4"
WEIGHT	6.6 lbs.
DISTANCE BETWEEN ENDS	10 1/4"
INLET/OUTLET DIAMETER	2" Male
MODEL NUMBER	25A2DL-***

3" TWIN LITE FILTER	
FLOW RANGE	80 - 220 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	294.5 sq. in.
FILTERING VOLUME	174 cu. in.
LENGTH	28 3/4"
WIDTH	9 14/32"
WEIGHT	17 lbs.
DISTANCE BETWEEN ENDS	12 19/32"
INLET/OUTLET DIAMETER	3" Flanged
MODEL NUMBER	25A3TL-***F

Multi-Jet Water Meters

Brass Water Meters for indicating flow totalization of water. Designed for long service life and maintenance-free operation, even under harsh conditions.

Features:

- All Meters have Hydrocarbon Resistant Seals and will not be damaged by dissolved amounts of free product
- Sealed Dry Dial for Clear Readings
- Internal Strainer to Protect Meter from Particulate Damage

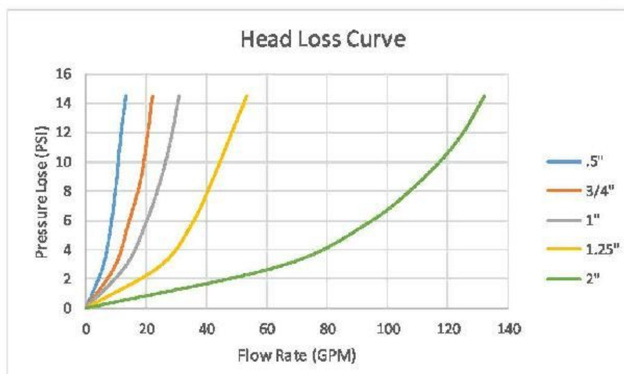
Specifications:

- Class: B
- Accuracy: Transitional Flow: ± 5%
  Nominal Flow: ± 2%
- Maximum Water Temperature: 104°F
- Maximum Water Pressure: 150 psi
- Mounting Orientation:
  1/2" and 3/4" Horizontal or Vertical
  1" to 2" Horizontal Mounting

Materials:

- Body: Brass, polyethylene
- Couplings: Brass
- Measuring Chamber: Polyethylene
- Paint: Epoxy Coated
- Seal: Viton

Contains lead, not for use with potable water



PRM Part Number: Description

WM050VX— 1/2" NPT multi-jet water meter
WM075VX— 3/4" NPT multi-jet water meter
WM100VX— 1" NPT multi-jet water meter
WM125VX— 1-1/4" NPT multi-jet water meter
WM150VX— 1-1/2" NPT multi-jet water meter
WM200VX— 2" NPT multi-jet water meter

6000 SERIES INDEXING VALVE

The 6000 line of indexing valves offers exceptional reliability and durability even under the dirtiest water conditions.

Features and Benefits

- **Metal Die-Cast Body –** Durable, long lasting and capable of high pressure applications.
- **Available in 4 and 6 Outlet Models –** Can easily change from two to six watering zones.
- **Simplicity of Design –** Valves are easily maintained and serviced for long product life.
- **Wide Pressure and Flow Operating Range –**
  - PSI Range: 25–150 (1,7–10,3 bar)
  - 15 GPM (57 LPM)
  - Ideal for pump-fed systems or high-flow city water systems
- **Built-in Atmospheric Vacuum Breaker –** Releases any vacuum created between the pump and the valve on shut down.

K RAIN.

K-Rain Manufacturing Corp.
1640 Australian Avenue
Riviera Beach, FL 33404 USA
561.844.1002
FAX: 561.842.9493
1.800.735.7246 | **www.krain.com**

Features and Benefits

- ABS Polymer Construction – High-strength, non-corrosive body for long product life.
- Available in 4 and 6 Outlet Models – Can quickly and easily change from two to six watering zones.
- Simplicity of Design – Valves are easily maintained and serviced for long product life.
- Operates at Low 10 GPM (38 LPM) at Pressures of 25-75 PSI (1,7-5,2 bar) – Reliably automates multiple zoned residential and small commercial irrigation or wastewater systems.

Specifications

- Constructed of High Strength, Non-Corrosive ABS Polymer

OPERATING SPECIFICATIONS

- Pressure Rating: 25 – 75 PSI (1,7 to 5,2 bar)
- Flow Range:
  4 Outlet Valve: 10-40 GPM (38-150 LPM)
  6 Outlet Valve: 10-30 GPM (38-113,5 LPM)
- Pressure Loss:

4 OUTLET VALVE

Flow Rate - GPM	10	20	30	40
PSI Loss	2.0	3.0	4.5	6.4

6 OUTLET VALVE

Flow Rate - GPM	10	20	30
PSI Loss	2.5	4.5	7.5

DIMENSIONS

- Height: 5 3/4" (14,6 cm)
- Width: 5 3/4" (14,6 cm)

Models

FOUR OUTLET MODELS
1 1/4" X 1 1/4" (3,2 CM X 3,2 CM)

4400	No Cam
4402	Cammed for 2 Zone Operation
4403	Cammed for 3 Zone Operation
4404	Cammed for 4 Zone Operation

SIX OUTLET MODELS
1 1/4" X 1" (3,2 CM X 2,5 CM)

4600	No Cam
4602	Cammed for 2 Zone Operation
4603	Cammed for 3 Zone Operation
4604	Cammed for 4 Zone Operation
4605	Cammed for 5 Zone Operation
4606	Cammed for 6 Zone Operation

Other options add to part number:

-RCW	Reclaimed Water Use

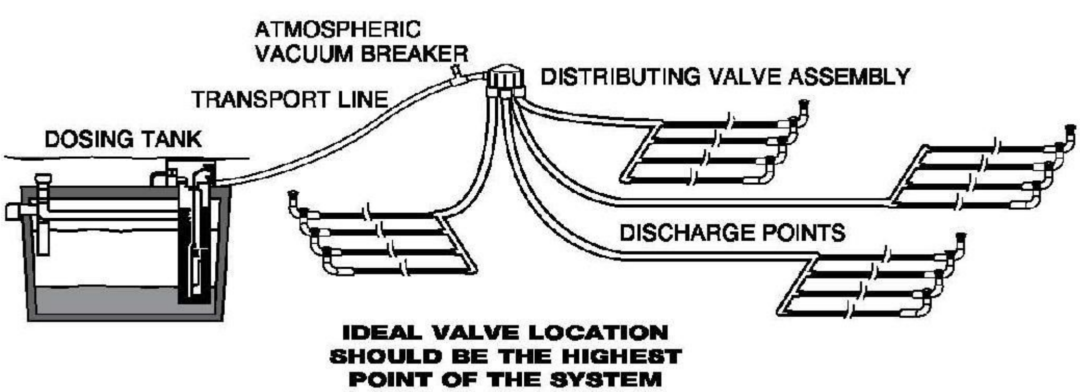
4000 Series Valves are available with 1" (2,5 cm) inlet and outlet by custom order

Accessories*

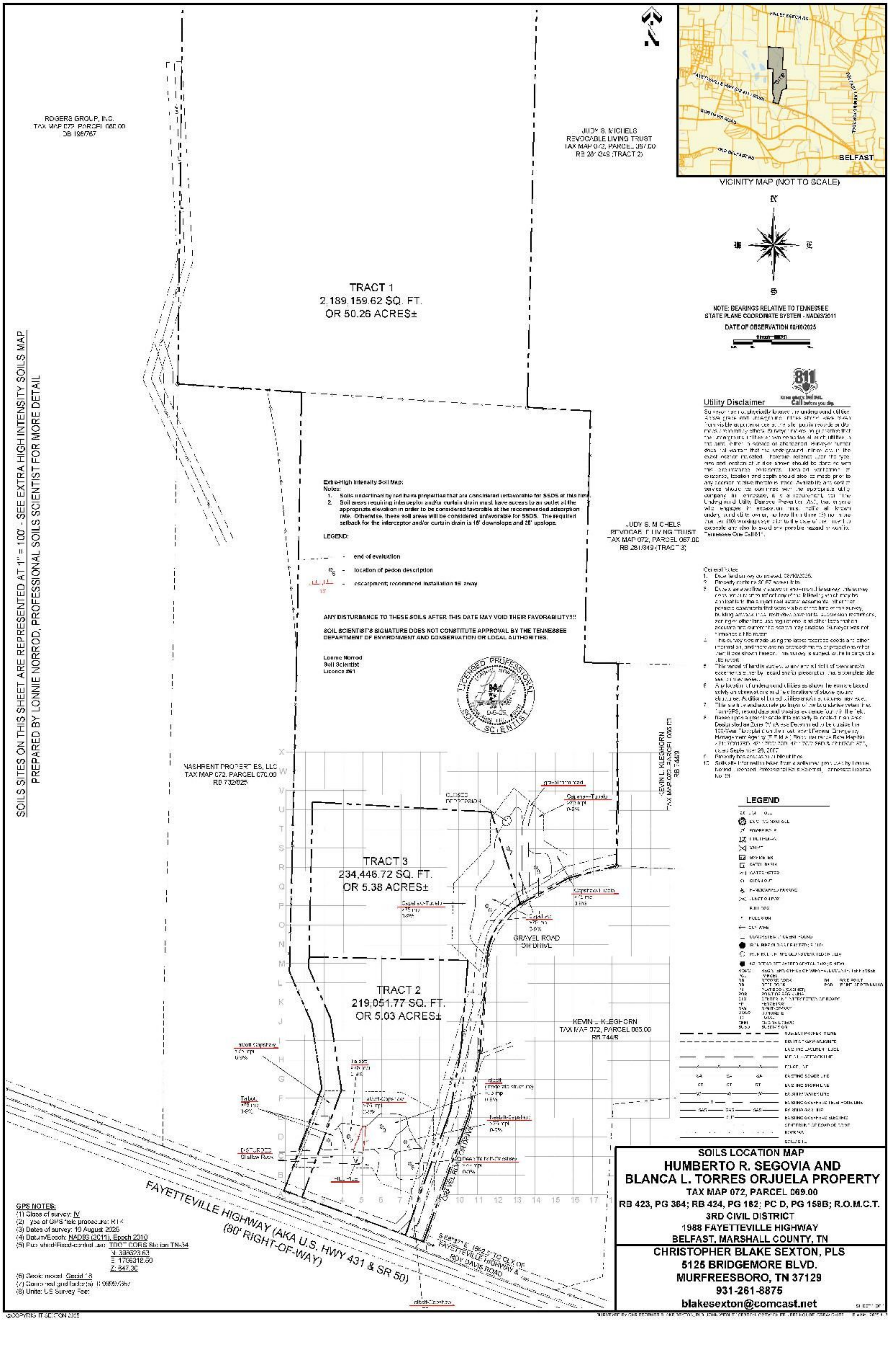
P7005507	Stem/disk Assembly Standard (.029-White) 10 GPM** (38 LPM)
P7005509	Stem/disk Assembly Light (.025-Blue) 6 GPM (23 LPM)
P7005511	Stem/disk Assembly Heavy (.032-Red) 15 GPM (57 LPM)

*Color code identified at the bottom of the disk
**Pre-Installed

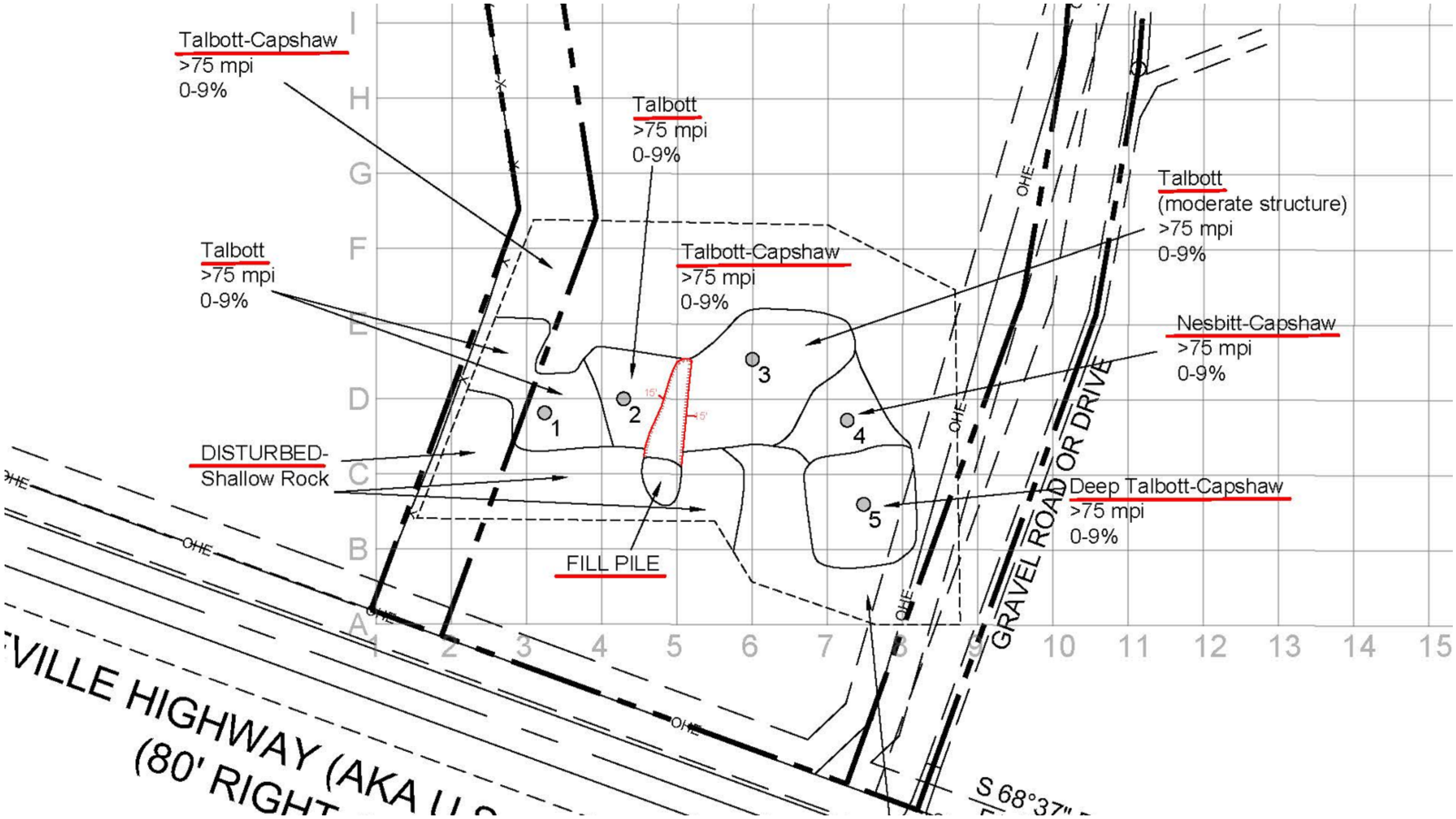
Installation Diagram



K RAIN



ROGERS GROUP, INC.
TAX MAP 072, PARCEL 080.00
DB 196/767
JUDY S. MICHELS
REVOCABLE LIVING TRUST
TAX MAP 072, PARCEL 067.00
RB 281/349 (TRACT 2)
VICINITY MAP (NOT TO SCALE)
BELFAST
NOTE: BEARINGS RELATIVE TO TENNESSEE STATE PLANE COORDINATE SYSTEM - NAD83/2011
DATE OF OBSERVATION 08/10/2025
TRACT 1
2,189,159.62 SQ. FT.
OR 50.26 ACRES±
SOILS SITES ON THIS SHEET ARE REPRESENTED AT 1" = 100' - SEE EXTRA HIGH INTENSITY SOILS MAP
PREPARED BY LONNIE NORROD, PROFESSIONAL SOILS SCIENTIST FOR MORE DETAIL
Utility Disclaimer
Extra-High Intensity Soil Map:
Notes:
1. Soils underlined by red have properties that are considered unfavorable for SSDS at this time.
2. Soil areas requiring interceptor and/or curtain drain must have access to an outlet at the appropriate elevation in order to be considered favorable at the recommended adsorption rate. Otherwise, these soil areas will be considered unfavorable for SSDS. The required setback for the interceptor and/or curtain drain is 15' downslope and 25' upslope.
LEGEND:
- end of evaluation
- location of pedon description
- escarpment; recommend installation 15' away
ANY DISTURBANCE TO THESE SOILS AFTER THIS DATE MAY VOID THEIR FAVORABILITY!!!
SOIL SCIENTIST'S SIGNATURE DOES NOT CONSTITUTE APPROVAL BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION OR LOCAL AUTHORITIES.
Lonnie Norrod
Soil Scientist
Licence #61
LICENSED PROFESSIONAL SOIL SCIENTIST
JUDY S. MICHELS
REVOCABLE LIVING TRUST
TAX MAP 072, PARCEL 067.00
RB 281/349 (TRACT 3)
NASHRENT PROPERTIES, LLC
TAX MAP 072, PARCEL 070.00
RB 732/625
KEVIN L. KLEGHORN
TAX MAP 072, PARCEL 065.01
RB 744/9
LEGEND
TRACT 3
234,446.72 SQ. FT.
OR 5.38 ACRES±
GRAVEL ROAD OR DRIVE
TRACT 2
219,051.77 SQ. FT.
OR 5.03 ACRES±
KEVIN L. KLEGHORN
TAX MAP 072, PARCEL 065.00
RB 744/5
FAYETTEVILLE HIGHWAY (AKA U.S. HWY 431 & SR 50)
(80' RIGHT-OF-WAY)
GPS NOTES:
(1) Class of survey: IV
(2) Type of GPS field procedure: RTK
(3) Dates of survey: 10 August 2025
(4) Datum/Epoch: NAD83 (2011), Epoch 2010
(5) Published/Fixed-control use: TDOT CORS Station TN-34
N: 338623.63
E: 1706312.50
Z: 847.30
(6) Geoid model: Geoid 18
(8) Units: US Survey Feet
SOILS LOCATION MAP
HUMBERTO R. SEGOVIA AND
BLANCA L. TORRES ORJUELA PROPERTY
TAX MAP 072, PARCEL 069.00
RB 423, PG 364; RB 424, PG 162; PC D, PG 159B; R.O.M.C.T.
3RD CIVIL DISTRICT
1988 FAYETTEVILLE HIGHWAY
BELFAST, MARSHALL COUNTY, TN
CHRISTOPHER BLAKE SEXTON, PLS
5125 BRIDGEMORE BLVD.
MURFREESBORO, TN 37129
931-261-8875
blakesexton@comcast.net



Talbott-Capshaw
>75 mpi
0-9%
Talbott
>75 mpi
0-9%
Talbott
(moderate structure)
>75 mpi
0-9%
Talbott
>75 mpi
0-9%
Talbott-Capshaw
>75 mpi
0-9%
Nesbitt-Capshaw
>75 mpi
0-9%
DISTURBED-
Shallow Rock
Deep Talbott-Capshaw
>75 mpi
0-9%
FILL PILE
GRAVEL ROAD OR DRIVE
VILLE HIGHWAY (AKA U.S.
(80' RIGHT
S 68°37"
OHE
15'

Extra-High Intensity Soil Map:

Notes:

1. Soils underlined by red have properties that are considered unfavorable for SSDS at this time.
2. Soil areas requiring interceptor and/or curtain drain must have access to an outlet at the appropriate elevation in order to be considered favorable at the recommended adsorption rate. Otherwise, these soil areas will be considered unfavorable for SSDS. The required setback for the interceptor and/or curtain drain is 15' downslope and 25' upslope.

LEGEND:

\- end of evaluation

5 - location of pedon description

15' - escarpment; recommend installation 15' away

ANY DISTURBANCE TO THESE SOILS AFTER THIS DATE MAY VOID THEIR FAVORABILITY!!!!

SOIL SCIENTIST'S SIGNATURE DOES NOT CONSTITUTE APPROVAL BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION OR LOCAL AUTHORITIES.

Lonnie Norrod
Soil Scientist
Licence #61

LICENSED PROFESSIONAL SOIL SCIENTIST
LONNIE NORROD
9-5-25
TENNESSEE LIC. #0061

TDEC - DWR Soil Pedon Description Form

Date: 7-30-25 Described By: Lonnie Norrod QA/QC By:

Property Name: Road Name: Fayetville Hwy, Belfast County: Marshall

Stop or Pit #: 1 SOP # (office use only):

Soil Series: Talbott Drainage Class: Well

Soil Control Section: Fine Depth to Ground Water or Water Table: none

Parent Material: Residuum Erosion: none - slight

Climate: Thermic Land Cover: Mixed grasses

Slope of Map Unit: 0-5 Slope of Pit: 1%

Geomorphic Description: Upland Latitude/Longitude:

Physiographic Location: Nashville Basin

Additional Notes:

Soil Pedon Description

Horizon	Depths (inches)	Matrix Color	Redox Color(s) Depletions/Concentrations	Depth to Redox Features Depletions	Soil Texture	Soil Structure			Soil Horizon Notes
						Grade	Size	Type	
Ap_1	0-3				SiL	2+3	f+m	gr+sbk	
Ap_2	3-10				SiL	2+3	m	sbk	
Bt_1	10-17				SiCL	2	m	sbk	
Bt_2	17-22				C	2	m	sbk	0.1
BC	22-23				C	1	m	sbk	
R	23								

TDEC - DWR Soil Pedon Description Form

Date: 7-30-25 **Described By:** Lonnie Norrod **QA/QC By:**

Property Name:
Road Name: Fayettville Hwy, Belfast **County:** Marshall

Stop or Pit #: 2 **SOP # (office use only):**

Soil Series: Talbott **Drainage Class:** well

Soil Control Section: fine **Depth to Ground Water or Water Table:** none

Parent Material: Residuum **Erosion:** Severe

Climate: Thermic **Land Cover:** Mixed grasses

Slope of Map Unit: 0-5 **Slope of Pit:** 1%

Geomorphic Description: Upland **Latitude/Longitude:**

Physiographic Location: Nashville Basin

Additional Notes:

Soil Pedon Description

Horizon	Depths (inches)	Matrix Color	Redox Color(s) Depletions/Concentrations	Depth to Redox Features Depletions	Soil Texture	Soil Structure			Soil Horizon Notes
						Grade	Size	Type	
Ap	0-3				SiL	2	F+M	gr+Sbk	
BA	3-7				SiCL	2+3	M	Sbk	
Bt_1	7-14				SiC	2	m	sbk	
Bt_2	14-21				C	1	m	sbk	.075
BC	21-24				C	1	m	Sbk	
R	24								

TDEC - DWR Soil Pedon Description Form

Date: 7-30-25 **Described By:** Lonnie Norrod **QA/QC By:**

Property Name:
Road Name: Fayetteville Hwy, Belfast **County:** Marshall

Stop or Pit #: 3 **SOP # (office use only):**

Soil Series: Talbott **Drainage Class:** well

Soil Control Section: Fine **Depth to Ground Water or Water Table:** none

Parent Material: Residuum **Erosion:** Severe

Climate: Thermic **Land Cover:** Mixed grasses

Slope of Map Unit: 0-5 **Slope of Pit:** 2%

Geomorphic Description: upland **Latitude/Longitude:**

Physiographic Location: Nashville Basin

Additional Notes:

Soil Pedon Description

Horizon	Depths (inches)	Matrix Color	Redox Color(s) Depletions/Concentrations	Depth to Redox Features Depletions	Soil Texture	Soil Structure			Soil Horizon Notes
						Grade	Size	Type	
Ap1	0-3				SiL	2+3	F+m	gr+sbk	
AB	3-7				SiCL	2+3	m	sbk	
Bt1	7-11				SiCL	2	m	sbk	
Bt2	11-16				SiC	2	m	sbk	
Bt3	16-23				C	2	m	sbk	0.1
Bt4	23-28				C	1	m	abk+sbk	
C	28-36				C	0		m	
R	36								

TDEC - DWR Soil Pedon Description Form

Date: 7-30-25 **Described By:** Lonnie Norrod **QA/QC By:**

Property Name: Road Name: Fayettville Hwy, Belfast **County:** Marshall

Stop or Pit #: 4 **SOP # (office use only):**

Soil Series: Nesbitt **Drainage Class:** Moderately well

Soil Control Section: Fine Silty **Depth to Ground Water or Water Table:** none

Parent Material: Residuum **Erosion:** None to Slight

Climate: Thermic **Land Cover:** Mixed grasses

Slope of Map Unit: 0-5 **Slope of Pit:** 1%

Geomorphic Description: Upland **Latitude/Longitude:**

Physiographic Location: Nashville Basin

Additional Notes:

Soil Pedon Description

Horizon	Depths (inches)	Matrix Color	Redox Color(s) Depletions/Concentrations	Depth to Redox Features Depletions	Soil Texture	Soil Structure			Soil Horizon Notes
						Grade	Size	Type	
Ap1	0 - 5				SiL	2+3	F+M	gr+sbk	
Ap2	5 - 10				SiL	2+3	F+M	sbk	
BA	10 - 16				SiCL	2	M	sbk	
Bt1	16 - 22				SiCL	2	M	sbk	0.2
Bt2	22 - 28				SiCL	2	M	sbk	
Btx3	28 - 35		10YR 7/3		SiCL	2	M	sbk	
Btx4	35 - 42		2.5YR 4/6, 10YR 7/2		C	2	M	sbk	

TDEC - DWR Soil Pedon Description Form

Date: 7-30-25 | Described By: Lonnie Norrod | QA/QC By:

Property Name: / Road Name: Fayetteville Hwy, Belfast | County: Marshall

Stop or Pit #: 5 | SOP # (office use only):

Soil Series: Deep Ta / Capshaw | Drainage Class: Moderately

Soil Control Section: Fine | Depth to Ground Water or Water Table: none

Parent Material: Residuum | Erosion: Moderate

Climate: Thermic | Land Cover: Mixed grasses

Slope of Map Unit: 0-5 | Slope of Pit: 1%

Geomorphic Description: Upland | Latitude/Longitude:

Physiographic Location: Nashville Basin

Additional Notes:

Soil Pedon Description

Horizon	Depths (inches)	Matrix Color	Redox Color(s) Depletions/Concentrations	Depth to Redox Features Depletions	Soil Texture	Soil Structure			Soil Horizon Notes
						Grade	Size	Type	
Ap 1	0-4				SiL	2+3	F+m	gr+sbk	
Ap 2	4-8				SiL	2+3	m	sbk	
BA	8-12				SiCL	2	m	sbk	
Bt 1	12-18				SiCL	2	m	sbk	
Bt 2	18-29				SiC	2	m	sbk	0.1
BC	29-37				C	1	m	sbk	
C	37-42		10YR 7/2 5YR 5/8		C	0		m	

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
Land-Based Systems Unit
William R. Snodgrass – Tennessee Tower
312 Rosa L. Parks Ave., 11th Floor
Nashville, TN 37243-110

APPLICATION FOR WATER RESOURCES SERVICES
APPLICANT
COMPLETE QUESTIONS

1. Service Requested (Check Service)	**Fees Due**	
_____ Septic System Construction Permit		
_____ Dwelling	$ _____	
_____ Commercial: gdp	$ _____	
_____ System Modification	$ _____	
_____ Repair	$ _____	
_____ Conventional Construction Inspection	$ _____	
_____ Inspection Letter	$ _____	
_____ Certificate of Verification	$ _____	
_____ Water Sample		
_____ Total Coliform	$ _____	
_____ Fecal Coliform	$ _____	
X Alternative System Permit	$ 500.00	PAID
X Alternative Construction Inspection	$ 200.00	PAID
_____ Large Conventional System Plan Review	$ _____	
_____ Large Alternative System Plan Review	$ _____	
_____ Experimental System Plan Review	$ _____	
_____ Subdivision Evaluation: Lots: _____	$ _____	
_____ Pumping Contractor – Septage Application	$ _____	

2. LANDOWNER:
Names: Keith Strain
Address: 1535 W Northfield Blvd Suite 17
Murfreesboro, Tennessee 37167
Day Phone: 6154567575
Original Owner:

APPLICANT:
Names: MARSHALL Fall
Address: 655 Stewart Valley Drive
Murfreesboro, Tennessee 37167
Day Phone: 6154280923
Email: mfall@tristate-environmental.com

Site Address:
Adresss: 1988 Fayetteville Hwy Tract 2
Belfast, Tennessee 37019

3. LOCATION OF LOT OR SITE: a) Subdivision Name: __________ Lot # __________

b) In a subdivision? No Give specific directions and address to the lot or site Input correct address into gps and it will take you right to it

c) Tax Map 072 Parcel 069.00

4. FOR SSDS PERMIT ONLY: a) Size of lot b) Number of Bedrooms Bedrooms Added

c) How many occupants? d) Excavated Basement? Yes No

e) Basement Plumbing Fixtures? Yes No

f) Amount of water used monthly (gallons)

g) Water Supply: Public Well Spring

h) Is the lot staked? If not, date it will be staked:

Is the house staked? If not, date it will be staked:

i) Installer, if known:

5. FOR INSPECTION LETTER ONLY AND CERTIFICATE OF VERIFICATION ONLY:

a) Age of house b) Is house vacant? How long?

c) Original sewage system inspected

d) Date of previous repairs Inspected

e) Is wastewater "backing up" into plumbing fixtures? Surfacing on the ground?

f) All wastewater including washing machines routed into septic tank

6. FOR WATER SAMPLE ONLY: a) Source of Supply: Spring Well Other

b) Is there an outside faucet? c) Is the source chlorinated?

d) For Wells: Is the casing 6" above the ground? Is a sanitary seal on the casing?

7. I certify that the above information is true and correct to the best of my knowledge; **I have been authorized by the above name landowner** to submit this application for Environmental Services to the Division of Water Resources.

DATE: Sep 22, 2025 SIGNATURE: Marshall D Fall AMOUNT PAID: 700.00 RECEIPT NUMBER: 3906460761

TO WHOM IT MAY CONCERN WITH DIVISION OF WATER RESOURCES / LAND BASED SYSTEMS UNIT:

I Humberto Rodriguez Segovia and Blanca L. Torres Orjuela understand the reduction of 4 bedroom ATS sites applied for to be reduced to 3 bedroom ATS sites due to the size of the large trees in the drip disposal areas located at (Tract 2) 1978 Fayetteville Hwy Belfast, TN 37019.

Kind Regards,

AuthentiSIGN
Humberto Rodriguez Segovia 02/12/26 5:08 PM CST

Humberto Rodriguez Segovia Date

AuthentiSIGN
Blanca L. Torres Orjuela 02/12/26 5:08 PM CST

Blanca L. Torres Orjuela Date

DEED RESTRICTION

Humberto Rodriguez Segovia and Blanca L. Torres Orjuela, (husband and wife, married man, married women, single man, single woman) (herein after referred to as "Property Owners") and currently residing at
1988 Fayetteville Hwy Belfast, TN 37019 Tracts 1, 2 and 3, own property in
Marshall County, Tennessee, (hereinafter referred to as the "Property") and legally described as:

Tract #2 - 1978 Fayetteville Highway Belfast, TN 37019

Tax ID#: 072 069.00
1978 Fayetteville Highway Belfast, TN 37019, Marshall County, Tennessee.

Purpose: The purpose of this Deed Restriction is to ensure that any Advanced Treatment System (ATS) installed on the Property is properly operated and maintained by the current and future Property Owners to assure continuity of operation consistent with the intended purpose of the treatment system; and to provide notice to future owners that such restrictions run with the land.

Description of Restrictions:

1. The Property Owners shall record this Deed Restriction with the Marshall County Register of Deeds and provide proof of recordation to Tennessee Department of Environment and Conservation, Division of Water Resources (herein after "DWR").

2. The Property Owners agree to operate and maintain any ATS installed on the Property as mandated by T.C.A. 68-221-416.

3. The Property Owners agree to maintain an Operation and Maintenance (OM) contract with a maintenance provider as approved by the Manufacturer of the ATS and approved by DWR as mandated by T.C.A. 68-221-417.

4. The Property Owners shall be responsible to obtain/renew an OM contract so there is no disruption of a current contract. If the Property Owners secure an OM contract with a different qualified provider than the provider at the time of filing of this deed restriction, a copy of that agreement must be provided to DWR within 30 days of signing the new contract.

5. If the Property Owners fail to maintain their OM contract with a maintenance provider a Notice of Violation will be issued to the Property Owners. This Notice of Violation

will outline the necessary actions and timeline associated with renewal of their OM contract.

6. If the Property Owners do not renew the OM contract within a period of 30 days from date of Notice of Violation issuance, the system shall be considered in non-compliance. Issues of noncompliance will be forwarded to the district attorney general in whose district the violation occurred (T.C.A. 68-221-413(b).

7. Term: This Deed Restriction is permanent and shall run with the land, and is fully applicable and enforceable upon all future owners of the Property.

8. This deed restriction shall cease and be of no further effect upon recordation of a letter from DWR acknowledging that circumstances have changed so that an ATS is no longer being used on the property.

IN WITNESS WHEREOF this instrument shall take effect upon full execution by the property owners.

PROPERTY OWNERS:

02/06/2026
Date

By: Humberto Rodriguez Segovia
(print name)

Signature

02/06/2026
Date

By: Blanca L. Torres Orjuela
(print name)

Signature Blanca L. Torres O.

SUBSCRIBED AND SWORN before me, a Notary Public, this 6 day of February, 2026
By: Terri L Kornegay

Terri L Kornegay Notary Public

State of Tennessee,
County of Rutherford
Acting in the County of Rutherford

My Commission Expires: 11/21/27

After recording, please return to:
Division of Water Resources/ Land Based Systems Unit
William Snodgrass Tennessee Tower
312 Rosa L. Parks Ave., 11th Floor
Nashville, TN 37243

Drafted by:

TERRI L KORNEGAY
STATE OF TENNESSEE NOTARY PUBLIC
RUTHERFORD COUNTY
MY COMMISSION EXPIRES NOVEMBER 21, 2027

Curtis Johnson, Register
Marshall County Tennessee

Rec #:	221895	Instrument #: 263126
Rec'd:	10.00	Recorded
State:	0.00	2/6/2026 at 12:30 PM
Clerk:	0.00	in Record Book
Other:	2.00	917
Total:	12.00	PGS 1025-1026