

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0284866
APS ID 1062840
Authorization ID 1395390

Applicant, Facility and Project Information

Applicant Name	<u>David W Poole</u>	Facility Name	<u>Poole Properties SRSTP</u>
Applicant Address	<u>267 Mendon Road</u> <u>Smithton, PA 15479-8741</u>	Facility Address	<u>Charlies Road</u> <u>Smithton, PA 15479</u>
Applicant Contact	<u>David Poole</u>	Facility Contact	<u>David Poole</u>
Applicant Phone	<u>(724) 640-0856</u>	Facility Phone	<u>(724) 640-0856</u>
Client ID	<u>369899</u>	Site ID	<u>857108</u>
SIC Code	<u>8800</u>	Municipality	<u>South Huntingdon Township</u>
SIC Description	<u>Private Households</u>	County	<u>Westmoreland</u>
Date Application Received	<u>May 9, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>6522400</u>
Project Description	<u>New NPDES permit application.</u>		


Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received a new Part I NPDES and Part II WQM permit applications from Fred R. Brant (consultant) of F.R. Brant Company on behalf of Mr. David W Poole (applicant) on May 9, 2022. The applications are for a proposed Small Flow Treatment Facility (SFTF/SRSTP) located in South Huntingdon Township, Westmoreland County with an average design flow of 500 GPD and 0.9 lbs. BOD5/day from a proposed 4-bedroom single- family residence. The proposed discharge is into Barren Run through Outfall 001.

This fact sheet is developed in accordance with 40 CFR §124.56

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
√		Reza H. Chowdhury, E.I.T. / Project Manager 	May 16, 2022
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	05/17/2022

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0005
Latitude	40° 9' 56"	Longitude	-79° 41' 43"
Quad Name	1708	Quad Code	Smithton
Wastewater Description: Sewage Effluent			
Receiving Waters	Barren Run (WWF)	Stream Code	37870
NHD Com ID	69914093	RMI	4.31
Watershed No.	19-D	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status	Name		
Nearest Downstream Public Water Supply Intake	West County Muni Auth-McKeesport in McKeesport City.		
PWS Waters	Youghiogheny River	Flow at Intake (cfs)	
PWS RMI	1.36	Distance from Outfall (mi)	31.47

Changes Since Last Permit Issuance: None, new permit application

Other Comments:

Anti-Degradation Requirement

Chapter 93.4a(b) of the Department's rules and regulations require that "Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." The discharge is into a stream segment designated as Warm-Water Fishes (WWF). No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

Class A Wild Trout Streams:

No Class A Wild Trout Fishery will be impacted by this discharge.

303d Listed Streams:

The receiving stream segment is not impaired.

Treatment Facility summary:

The application was submitted for a new SRSTP named Poole Property SRSTP that will be constructed to serve a proposed 4-bedroom single dwelling located in 267 Mendon Road, Smithton, PA 15479. The proposed discharge will be into Barren Run (WWF) through Outfall 001.

The details of the proposed treatment plant will be discussed in the Internal Review & Recommendation (IR&R) that will accompany the WQM permit under WQM permit number 6522400. In summary, the proposed treatment plant will be a Singlair Bio-Kinetic Model 960-500 treatment tank, followed by a Hydro-Kinetic Bio-Film Reactor with a model AT 1500 UV disinfection system and discharge into Barren Run through Outfall 001.

The proposed treatment technology isn't listed in the SFTF Manual, therefore, the facility doesn't qualify for coverage under general PAG04 permit.

Development of effluent limitations:

Flow monitoring:

Flow monitoring will be placed in this permit in accordance with DEP's SOP BCW-PMT-003 revised May 17, 2019. The reporting frequency set forth is once a year and sample type is Estimate (for SRSTP.)

Biochemical Oxygen Demand (BOD₅)

An average annual BOD₅ limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Total Suspended Solids (TSS)

An average annual BOD₅ limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Fecal Coliform:

A year-round annual average and IMAX limit of 200 No./100 ml will be placed in this permit.

pH:

Daily minimum pH of 6.0 and Daily Maximum pH of 9.0 S.U. will be applied in this permit per Pa Code 25 Ch. 95.2(1).

UV:

The SOP indicates that it is not necessary to require UV intensity or transmittance monitoring in the permit for SRSTPs/SFTFs.

The Design Engineers Report accompanied with the WQM permit indicated that the proposed treatment plant can treat the wastewater to generate an effluent that will have maximum CBOD₅ of 8.0 mg/l, TSS of 7.0 mg/l, less than 200 no./100 ml of fecal coliform.

Act 537 Planning was approved under PADEP Code 65956-21-010.

Proposed Effluent Limitations and Monitoring Requirements

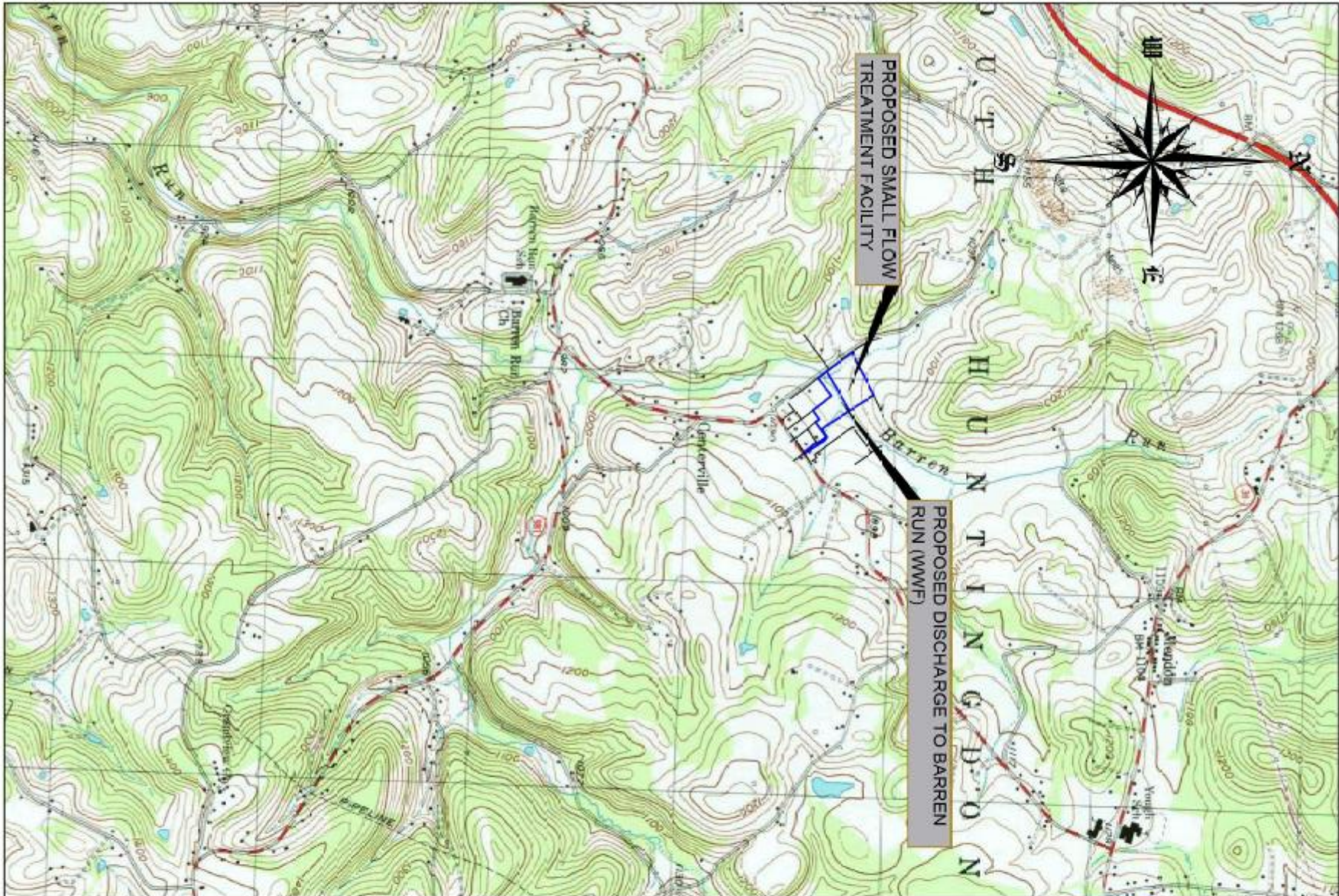
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

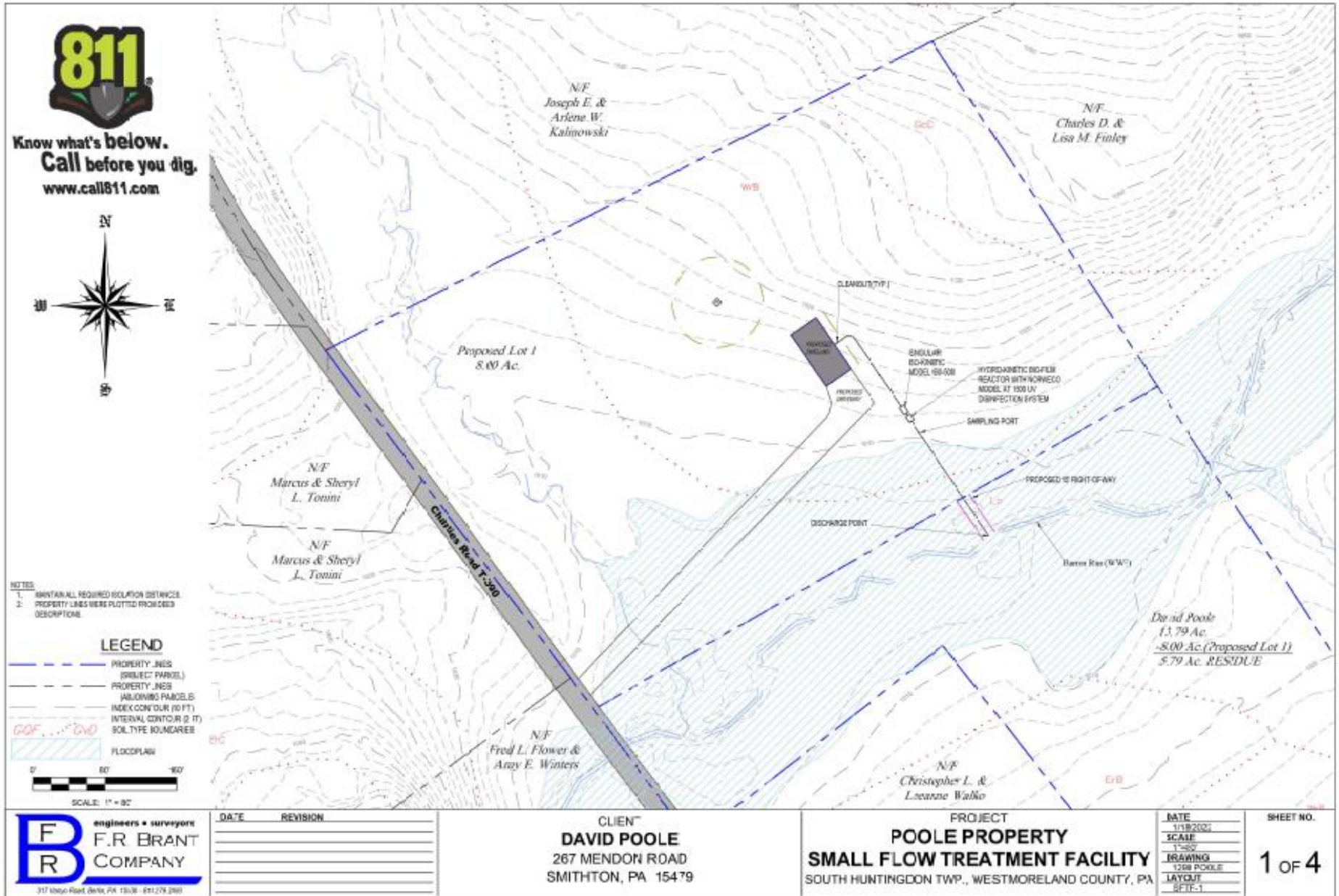
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: After last treatment unit

Other Comments: None



L-1	PROJECT LOCATION PLAN POOLE PROPERTY SMAALL FLOW TREATMENT FACILITY S. HUNTINGDON TWP., WESTMORELAND CO., PA	CLIENT DAVID POOLE 267 MENDON ROAD SMITHTON, PA 15479	DATE _____ REVISION _____ _____ _____ _____	
	DATE 4.18.2021 SCALE 1"=200' DRAWING 1350 Poole LAYOUT Location Plan SHEET NO.			



NOTES
1. MAINTAIN ALL REQUIRED ISOLATION DISTANCES.
2. PROPERTY LINES WERE PLOTTED FROM DEED DESCRIPTIONS.

LEGEND

- PROPERTY - INCS (PROJECT PARCEL)
- PROPERTY - INCS (SUBJECT PARCEL)
- PROPERTY - INCS (ADJACENT PARCELS)
- INDEX CONTOUR (10 FT)
- INTERNAL CONTOUR (2 FT)
- SOIL TYPE BOUNDARIES
- FLOODPLAIN

F R engineers • surveyors
F.R. BRANT COMPANY
317 KING ROAD, BAHIA, PA 15008 • 814.279.2881

DATE	REVISION

CLIENT
DAVID POOLE
267 MENDON ROAD
SMITHTON, PA 15479

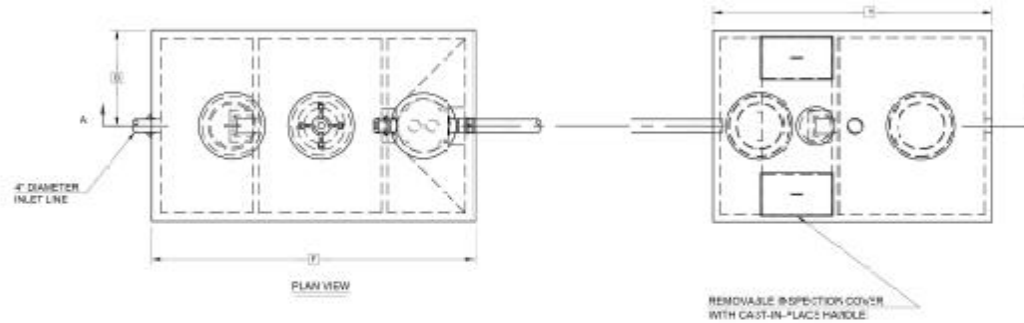
PROJECT
POOLE PROPERTY
SMALL FLOW TREATMENT FACILITY
SOUTH HUNTINGDON TWP., WESTMORELAND COUNTY, PA

DATE	3/18/2022
SCALE	1"=80'
DRAWING	1268 POOLE
LAYOUT	8FT-1

SHEET NO.
1 OF 4

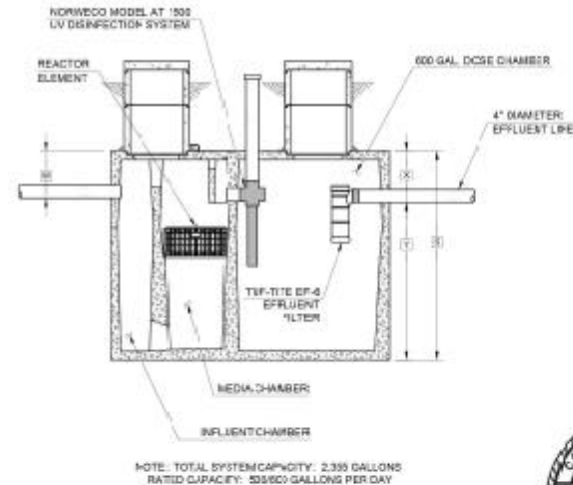
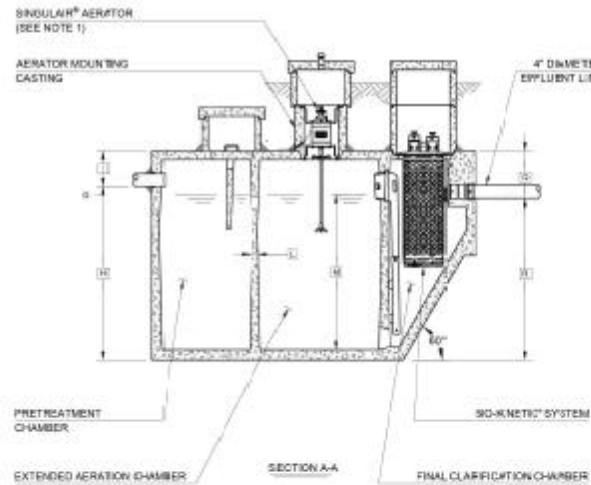
GENERAL NOTES

- ① SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF.
- ② FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TASK TOP.
- ③ ON DEEPER INSTALLATIONS, RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING, BIO-FILM REACTOR RISER, AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE. INSPECTION COVER ON PRE-TREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
- ④ TANK REINFORCED PER ACI STD. 318-05.
- ⑤ REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS. REACTOR LID IS SECURED.
- ⑥ CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS AND CONFIRMATION OF CRITICAL DIMENSIONS.



CRITICAL DIMENSIONS (SEE NOTE 6)

A	1'-0"	N	
B	2'-0"	O	
C		P	
D		Q	1'-4"
E		R	4'-0"
F	9'-3"	S	4'-0"
G	1'-0"	T	
H	0'-0"	U	
I		V	0'-0"
J		W	1'-4"
K		X	1'-5.5"
L	0'-2"	Y	4'-6.5"
M	4'-6"	Z	



NOTE: TOTAL SYSTEM CAPACITY: 2,350 GALLONS
RATED CAPACITY: 55000 GALLONS PER DAY

SINGULAR BIO-KINETIC MODEL 960-500 & HYDRO-KINETIC BIO-FILM REACTOR

N.T.S.



DATE	REVISION

CLIENT
DAVID POOLE
267 MENDON ROAD
SMITHTON, PA 15479

PROJECT
POOLE PROPERTY
SMALL FLOW TREATMENT FACILITY
SOUTH HUNTINGDON TWP., WESTMORELAND COUNTY, PA

DATE	11/18/2021
SCALE	N.T.S.
DRAWING	1208 POOLE
LAYOUT	SRSTP

SHEET NO.

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