

*SEE REVERSE SIDE FOR IMPORTANT INFORMATION

PERMIT

for

INSTALLATION OF SEWAGE DISPOSAL SYSTEM

Pursuant to Application for Sewage Disposal System number TM 6-10-118-1 SERIAL 99-591
a permit is hereby issued to: PERMIT R 08004

NAME OF APPLICANT

RICHARD TIMMONS c/o WILLIAMS - HYLA

ADDRESS OF APPLICANT

P.O. BOX 101, WYCOMBE, PA 18980

TELEPHONE NUMBER

(215) 598-3886

PROPERTY ADDRESS OF SITE FOR SEWAGE DISPOSAL SYSTEM

3795 ROUTE 202, BUCKINGHAM TOWNSHIP, BUCKS COUNTY, PA

This Permit issued under the provisions of the "Pennsylvania Sewage Facilities Act", the Act of January 24, 1966 (P.L. 1535), as amended is subject to the following conditions:

1. Except as otherwise provided by the Act or regulations of the Pennsylvania Department of Environmental Resources, no part of the installation shall be covered until inspected by the approving body and approval to cover is granted in writing below.
2. This Permit may be revoked for the reasons set forth in Section 7(b)(6) of the Act.
3. If construction or installation of an individual sewage system or community sewage system and of any building or structure for which such system is to be installed has not commenced within three years after the issuance of a permit for such system, the said permit shall expire, and a new permit shall be obtained prior to the commencement of said construction or installation.

ADDITIONAL CONDITIONS:

1. This repair permit is issued in an attempt to rehabilitate the existing on-site sewage disposal system. This repair shall not be construed as a suitable system for future additional sewage flows or a change in present system usage.
2. This repair permit limits the sewage flow to 480 gallons per day or a 3 bedroom house and 8 office workers only.
3. The proposed absorption area is to be staked out before any construction activity begins on the site.
4. The absorption area is to be avoided by all construction.
5. Construction of the absorption area shall not begin without the permission of the local sewage enforcement officer.

KEEP THIS PERMIT FOR FUTURE REFERENCE

Approval to Cover

Date of Issuance of Permit 9/10/99

Signature of Enforcement Officer

BUCKS COUNTY DEPT. OF HEALTH

Approving Body

Date

Signature of Enforcement Officer

The basis for the issuance of this Permit is the information supplied in the Application for Sewage Disposal System and other pertinent data concerning soil absorption tests, topography, lot size, and sub-soil groundwater table elevations. The permit only indicates that the issuing authority is satisfied that the installation of the Sewage Disposal System is in accordance with the Rules, Regulations and Standards adopted by the Pennsylvania Department of Environmental Resources under the provisions of the Pennsylvania Sewage Facilities Act, the Act of January 24, 1966 (P.L. 1535), as amended. The issuance of a Permit shall not preclude the enforcement of other health laws, ordinances or regulations in the case of malfunctioning of the system.

TO BE POSTED AT THE BUILDING SITE

APPLICATION FOR AN ON-LOT SEWAGE DISPOSAL SYSTEM PERMIT

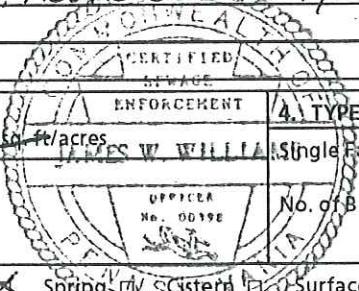
ER-BWQ-290

99-591

PART I APPLICANT AND SITE INFORMATION

1. Applicant Name RICHARD TIMMINS
 Address C/o WILLIAMS-141a
P.O. Box 101, WYCOMBE, PA 18980
 Telephone No. Day (215) 598-3886
 Evenings ()

2. Site Address 3795 ROUTE 202
 Street, RR, Box. No.
 Post Office TM # 6-10-118-1
 State PA Zip 18980
 Subdivision Name BUCKINGHAM TWP. Lot No. BUCKS
 Municipality BUCKS County BUCKS

Directions to the Site: SE SIDE, U.S. ROUTE 202 AT MECHANICSVILLE ROAD.

3. Lot Size 1.303 0.33 acres JAMES W. WILLIAMS OFFICER NO. 00198
 Type of System New Repair Septic Mound
 4. TYPE OF FACILITY TO BE SERVED BY THIS SYSTEM
 Single Family Residential Multifamily B OFFICE
 No. of Bedrooms 3 PLUS Commercial WORKERS
gal./day 480 TOTAL

5. Facility Water Supply: Public Well Spring Cistern Surface GREATER THAN6. Distance to the nearest existing or proposed Private Water Supply (on or off the property) 100 ft.

PART II LOCAL AGENCY USE ONLY

SEWAGE PLANNING	SITE SUITABILITY ANALYSIS	APPLICATION STATUS
<input type="checkbox"/> Approved Planning Mod. <u>DEP Code No.</u>	Soil Series <u>41B</u> Slope <u>7.1</u> % Type of Limiting Zone <u>mothes</u> Depth of Limiting Zone <u>24</u> inches Type of Cover <u>Ag, Grass, Forest</u>	Percolation Rate <u>93.04</u> min/in. Not conducted - IRSIS Site is: <input type="checkbox"/> Suitable for in ground system. <input type="checkbox"/> Suitable for elevated system. <input type="checkbox"/> Suitable for IRSIS <input type="checkbox"/> Unsuitable Attach Form ER-BWQ-290 Appendix A or B
<input type="checkbox"/> Area Not Planned (lot created before <u>May 15, 1972</u>) <input type="checkbox"/> Limitations in Effect		<input checked="" type="checkbox"/> Complete Application <u>9/12/99</u> <input type="checkbox"/> Received <u>9/12/99</u> <input checked="" type="checkbox"/> Permit Issued <u>9/12/99</u> <input type="checkbox"/> Permit Denied <u>1/1/1</u> <input type="checkbox"/> Interim Inspection <u>1/1/1</u> <input type="checkbox"/> Interim Inspection <u>1/1/1</u> <input type="checkbox"/> Final Inspection <u>1/1/1</u> <input type="checkbox"/> Approved <u>1/1/1</u> <input type="checkbox"/> Disapproved <u>SEO Initials</u> <input type="checkbox"/> Revoked Permit <u>1/1/1</u>

PART III PLOT PLAN AND SYSTEM DESIGN

1. TANKAGE	2. SOIL ABSORPTION SYSTEM	3. ATTACH THE FOLLOWING DOCUMENTATION
Total Tank Capacity <u>2-COMP. 1500</u> gal.	Total Absorption Area <u>2788</u> Sq. Ft.	a. A copy of the Form ER-BWQ-290 Appendix A (and B when required) (See Part II)
<input checked="" type="checkbox"/> Septic Tank(s) <u>1</u> <input type="checkbox"/> Aerobic Tank(s) <input type="checkbox"/> Chemical Toilet <input type="checkbox"/> Composting Toilet <input type="checkbox"/> Incinerating Toilet <input type="checkbox"/> Recycling Toilet <input type="checkbox"/> Holding Tank <input type="checkbox"/> Vault Privy	<input type="checkbox"/> Standard Trench <input type="checkbox"/> Elev. Sand Trench <input type="checkbox"/> Seepage Bed <input checked="" type="checkbox"/> Elev. Sand Bed <input type="checkbox"/> Pressure Dose <input type="checkbox"/> Subsurf. Sand <input type="checkbox"/> Alternate <u>RECEIVED</u> <input type="checkbox"/> Experimental <u>SEP 17 1999</u> <input type="checkbox"/> IRSIS	b. A detailed plot plan and sewage system design (including plan reviews and cross sections). See the instructions on the reverse side for required details. Indicate the number of attached sheets _____
		4. Type of Sand Filter <input type="checkbox"/> Buried <input type="checkbox"/> Free Access 5. Type of Disinfection <input type="checkbox"/> Erosion <input type="checkbox"/> Hypo
		Comments: <u>SEE ATTACHED</u>

PART IV SIGNATURES

Bucks County
Dept. of Health

I am the owner of record (or the authorized agent of the owner) of the lot described in Part I of this application. I intend to install an on-lot sewage system on this property. The information provided as part of this application is true and correct to the best of my knowledge. I understand that providing false information on this application is subject to the penalties of 18 PA C.S.A. §4904, relating to unworn falsification to authorities. Submission of this form grants authorized representatives from the local agency and/or this Department access to the lot to inspect and conduct tests of 1) the site; 2) the system and structures under construction; 3) the completed sewage system; and, 4) the operational status of the system.

Property Owner's Signature R. TimminsDate 9/17/99

The information in this application is true and correct to the best of my knowledge.

Date 9/10/99Enforcement Officer Signature John J. WilliamsDate 9/10/99Certification No. 402049

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT FOR ON-LOT DISPOSAL OF SEWAGE**

Application No. R 08004 Municipality BUCKINGHAM Twp. County BUCKS
Site Location T.M. # 6-10-118-1 Subdivision Name _____

SUITABLE Soil Type UIB Slope 7.06 % Depth to Limiting Zone 24" Ave. Perc. Rate 93.04
 UNSUITABLE Mottling Seeps or Ponded Water Bedrock Fractures Coarse Fragments Perc. Rate
 Slope Unstabilized Fill Floodplain Other _____

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE

SOILS DESCRIPTION:

Soils Description Complete by: Eric Brosius BCDH Date: 4/20/99

Inches	Description of Horizon	Depth to Limiting Zone: _____
<u>0 TO 9</u>	<u>Dark Brown, Silt Loam, friable, weak Subangular-Bloky</u>	
<u>9 TO 24</u>	<u>Dark Brown, Silt Loam, friable, Moderate Subangular-Bloky</u>	
<u>24 TO 30</u>	<u>Light Brown, Silt Loam, friable, Moderate Subangular-Bloky, Common Distinct Mottles</u>	<u>24</u> Inches
<u>30+</u> TO _____	<u>Existing In-ground Systems</u>	
TO _____		

PERCOLATION TEST:

Percolation Test Completed by: JAMES W. WILLIAMS 00398 Date 16 Jul 99

Weather Conditions: Below 40°F 40°F or above Dry Rain, Sleet, Snow (last 24 hours)

Soil Conditions: Wet Dry Frozen

Hole No.	...	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: NW inches of drop	Reading No. 8: Inches of drop
1	X	(30)	1 1/8	1	1	1				
2	X	10 (30)	1	1	1	1				
3	X	10 (30)	3/8	3/8	3/8	3/8				
4	X	10 (30)	1/8	1/8	1/8	1/8				
5	X	10 (30)	3/8	3/8	3/8	2/8				
6	X	10 (30)	3/8	3/8	3/8	3/8				
7	X	10 (30)	4/8	3/8	3/8	3/8				

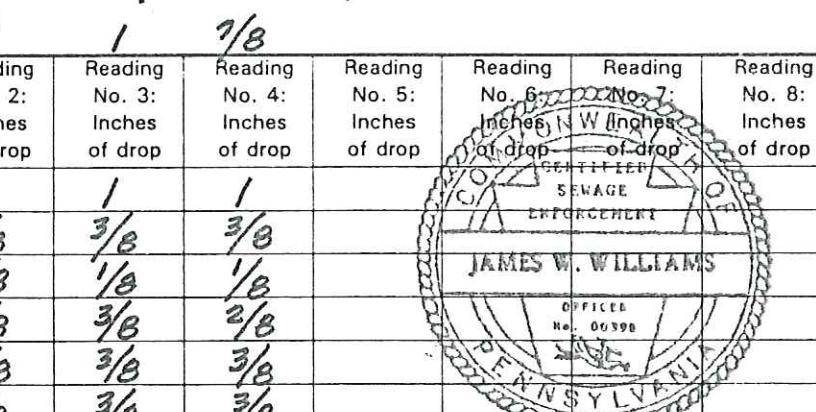
*** Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval; No, use 10 minute interval.

8 X (30) 4/8 3/8 3/8 3/8 James W. Williams 00398

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch
2	1	30.00
3	3/8 "	80.00
4	1/8 "	240.00
5	1/4 "	120.00
6	3/8 "	80.00
7	3/8 "	80.00
8	3/8 "	80.00

TOTAL OF MIN / IN → 744.29 = 93.04 Min / Inch
TOTAL NO. OF HOLES → 8



RECEIVED
Bucks County
Dept. of Health
SEP 7 1999

The information provided is the true and correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manner approved by the Department.

(S) 
Eric Brosius
Sewage Enforcement Officer

#02089

RICHARD TIMMONS

Tax Parcel #6-10-118-1
REPAIR ELEVATED SAND MOUND SYSTEM DESIGN

PUMP CAPACITY:

(12 Laterals) (7 Holes/Lateral) (1.28) = 107.52 GPM at TDH

STATIC HEAD:

101.46' - 95.71' = 5.75 FEET STATIC HEAD

TOTAL DYNAMIC HEAD:

2-inch Diameter Delivery Pipe Length - 75 Feet

Longest Section of 2-inch Diameter Manifold - 21 Feet

1 Standard "T" Fitting	(11.10@)	11.10'
2 45 Deg. Fittings	(2.58@)	5.16'
2 90 Deg. Fittings	(5.55@)	11.10'
2 Couplings	(1.35@)	2.70'
1 Quick Disconnect	(1.35@)	1.35'

		31.41'

75' + 21' + 31.41' = 127.41' Equivalent
Pipe Length

(127.41') (0.1931) = 24.60'

5.75' + 24.60' + 3.00' = 33.35 FEET TOTAL DYNAMIC HEAD

RECOMMENDED PUMP:

Goulds Model 3887, WS15 1.5 hp. or equal.

MINIMUM DOSE:

(12 Laterals) (39') = 468' (468') (0.09) = 42.12 Gal.

75.00' + 30' = 105.00' (105.00') (0.16) = 16.80 Gal.
Deliv. Man.

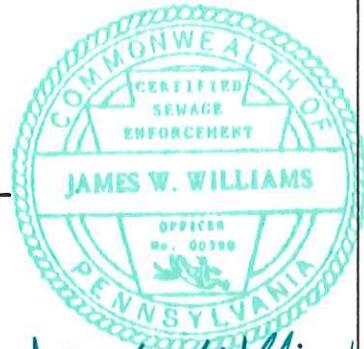
42.12 + 16.80 = 58.92 Gal.

(58.92) (5) = 294.60 GAL. MINIMUM DOSE

ACTUAL DOSE: [1000 Gal. Modern (rect.) monolithic pump tank]

97.71' - 96.21' = 1.50'

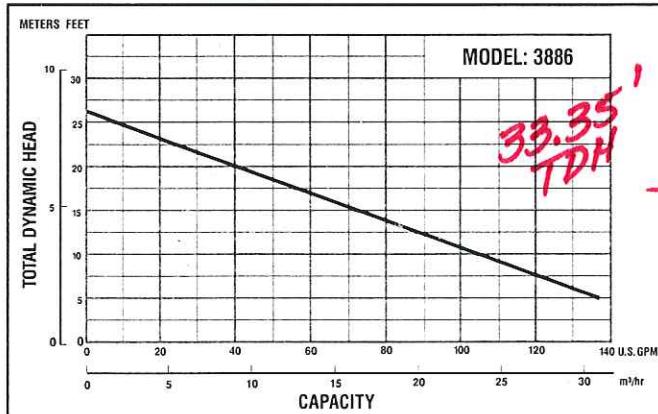
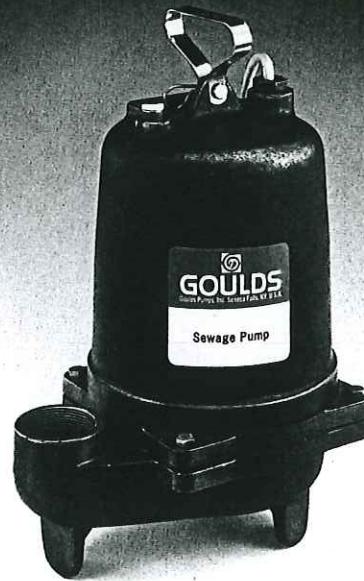
(1.50') (290.6 Gal./Ft.) = 435.90 GAL./DOSE



James W. Williams
00398

MODEL 3886

WS05 A Submersible Sewage Pump



Pump Specifications

1/2 HP
Up to 135 GPM
Maximum head to 26'
Discharge size 2" NPT
Solids: 1 1/2" maximum
Motor

Motor

All motors feature ball bearing construction. Available in Single and Three Phase 115, 200, 230, 460, and 575V.

All single phase models have capacitor start motors.

Materials of Construction

Cast iron
Stainless steel

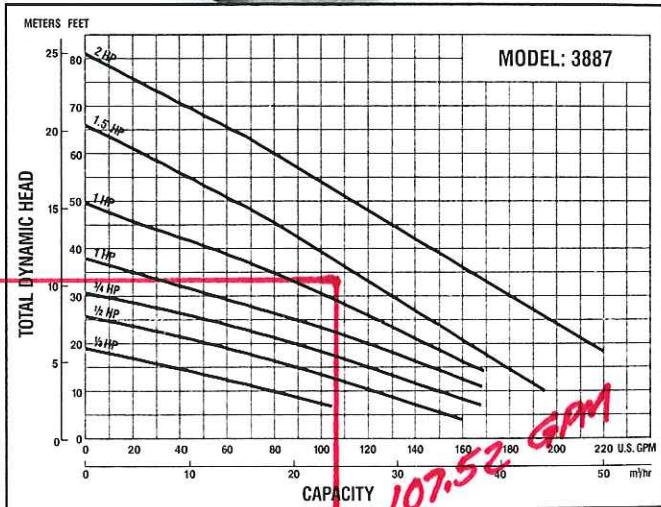
Features and Benefits

- All models feature **silicon carbide** mechanical seal faces for superior abrasive resistance and extra long life.
- Cast iron, semi-open, non-clog impeller design with pump out vanes for mechanical seal protection.
- Rugged cast iron volute type casing adaptable for slide rail systems.
- Corrosion resistant stainless steel threaded shaft.
- Optional silicon bronze impeller available.
- CSA listed models available.

 Underwriters Laboratories

MODEL 3887

WS03 BF through WS20 BHF Submersible Sewage Pump



Pump Specifications

1/3 to 2 HP
Up to 220 GPM
Maximum head to 82'
Discharge size 2"
flanged NPT
Solids: 2" maximum

Motor

All motors feature ball bearing construction. Available in Single and Three Phase 115, 200, 230, 460 and 575V. All single phase models have capacitor start motors

Materials of Construction

Cast iron
Stainless steel

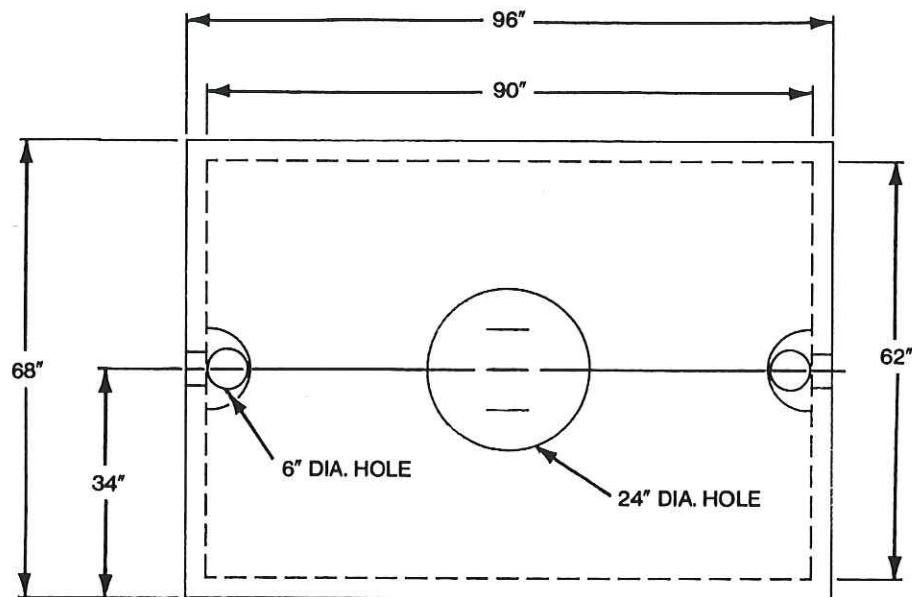
Features and Benefits

- All models feature **silicon carbide** mechanical seal faces for superior abrasive resistance and extra long life.
- Cast iron, semi-open, non-clog impeller design with pump out vanes for mechanical seal protection.
- Rugged cast iron volute type casing adaptable for slide rail systems.
- Corrosion-resistant stainless steel threaded shaft.
- Designed for continuous operation.
- Optional silicon bronze impeller available.
- Optional 3" flanged discharge available.
- CSA listed models available.

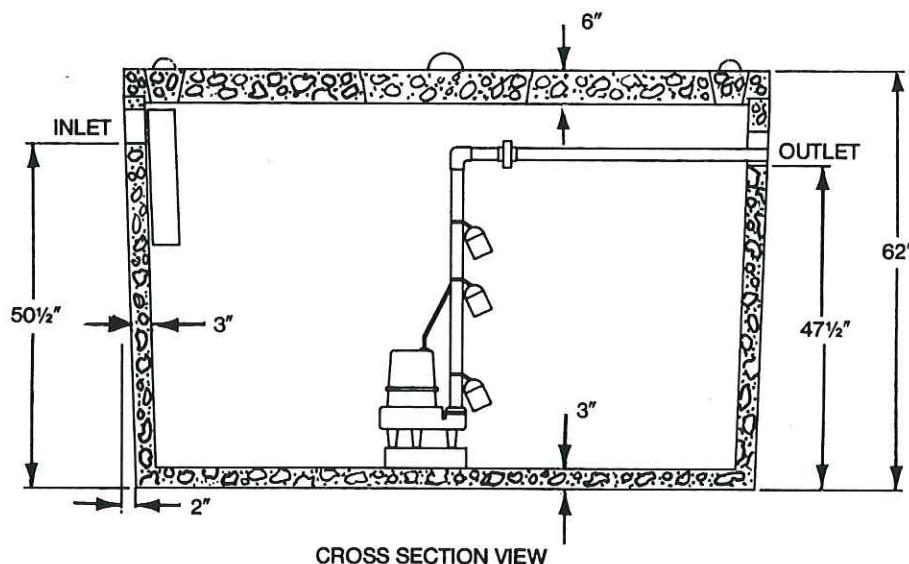
 Underwriters Laboratories

All Models are designed for continuous operation and feature stainless steel hardware.

1,000 GALLON MONOLITHIC PUMP TANK



PLAN VIEW

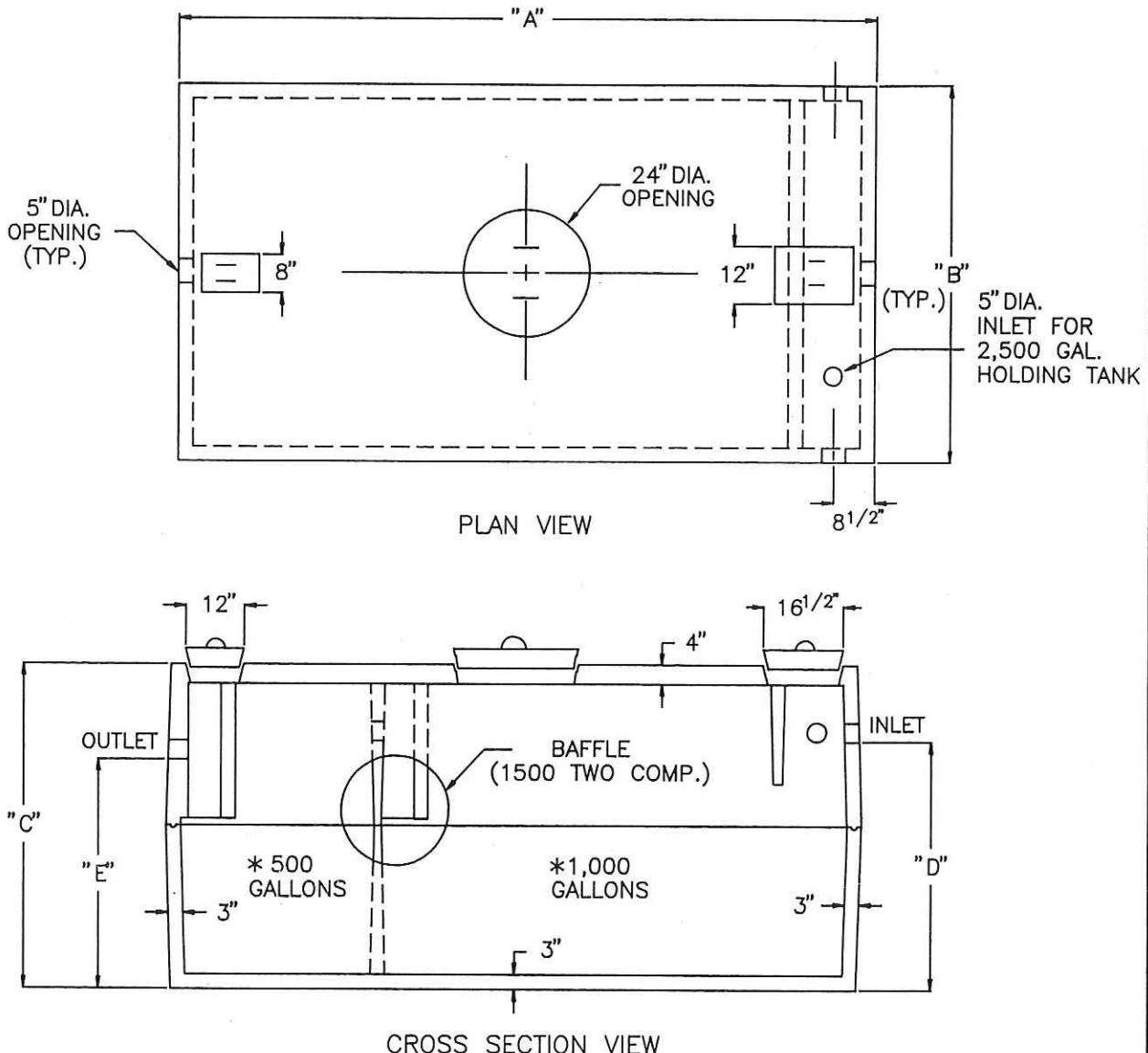


CROSS SECTION VIEW

SPECIFICATIONS

- **Minimum Concrete Strength** — 3,500 P.S.I. @ approx. 28 Days
- **Steel Reinforcement** — #4 Rebar in lid, #3 in sides
- **Joint** — Sealed with a synthetic resin sealant or equivalent
- **Design** — Pump Tank shall be as manufactured by
MODERN CONCRETE SEPTIC TANK COMPANY

TWO PIECE RECTANGULAR SEPTIC TANKS



TANK SIZE (GALLONS)	LENGTH "A"	WIDTH "B"	HEIGHT "C"	INLET "D"	OUTLET "E"	APPROXIMATE WEIGHT
						TOP
						BASE
1,500	126"	68"	64"	.54"	51"	6,075
*1,500 TWO COMP	126"	68"	64"	54"	51"	6,217
2,000	144"	78"	67"	54"	51"	7,150
2,500 HOLDING TANK	144"	78"	67"	67"		7,150
						TOTAL
						12,150
						12,434
						14,300
						14,300

SPECIFICATIONS

- Concrete Strength— 4,000 P.S.I. @ 28 Days
- Steel Reinforcement— Conforms to ASTM A615 — A185—85
- Joint— Sealed with a flexible butyl resin sealant or equivalent
Meets AASHTO M-198B
- Design— Septic Tank shall be as manufactured by
MODERN CONCRETE SEPTIC TANK COMPANY

DIAMETER SCHEDULE 40 PVC AND SLOPE AT A MINIMUM GRADE OF ONE QUARTER INCH PER FOOT.

THE PUMP SHALL BE ELEVATED OFF THE PUMP TANK BOTTOM BY PLACEMENT OF A SIX-INCH HIGH CONCRETE BLOCK UNDER THE PUMP.

THE ALARM SHALL BE BOTH AUDIBLE AND VISUAL. THE ALARM AND PUMP CIRCUITS SHALL BE SEPARATE. ALL ELECTRICAL CONNECTIONS WITHIN THE PUMP TANK SHALL BE WATERTIGHT.

THE CONNECTION BETWEEN THE PUMP AND THE DELIVERY LINE SHALL INCORPORATE A QUICK DISCONNECT TO FACILITATE PUMP REPAIR/REPLACEMENT.

THE PUMP SPECIFICATIONS PROVIDED IN THIS DESIGN ARE BASED UPON THE STATED LOCATIONS AND ELEVATIONS. IF SYSTEM COMPONENT LOCATIONS CHANGE FROM THOSE STATED IN THIS DESIGN, A DIFFERENT PUMP MAY BE REQUIRED. THE ADEQUACY OF THE PUMP SHALL BE VERIFIED BY THE CONTRACTOR/INSTALLER PRIOR TO INSTALLATION.

THE PUMP SHALL BE A Goulds Model 3887, WS15 1.5 hp. OR EQUAL.

THE DELIVERY LINE SHALL BE TWO-INCH DIAMETER SCHEDULE 40 PVC. AND SHALL BE INSTALLED SO THAT IT SLOPES DOWNHILL FOR ITS ENTIRE LENGTH FROM THE MANIFOLD IN THE SAND MOUND TO THE PUMP TANK.

THE EXISTING SEPTIC TANK, THE (4-inch diameter) EFFLUENT LINE BETWEEN THE EXISTING SEPTIC TANK AND THE EXISTING DISTRIBUTION BOX, AND THE DISTRIBUTION BOX ARE TO BE SEVERED FROM THE NEW COMPONENTS AND PROPERLY ABANDONED.

THE MANIFOLD SHALL BE TWO-INCH DIAMETER SCHEDULE 40 PVC.

THE LATERALS SHALL BE 1.5-INCH DIAMETER SCHEDULE 40 PVC. DATE

LATERAL DISCHARGE HOLES SHALL BE 1/4 INCH IN DIAMETER. BY SEQ #

LATERAL ENDS SHALL BE EXTENDED TO GRADE USING A 45 DEGREE BEND AND CAPPED.

THE LAST HOLE IN EACH LATERAL SHALL BE DRILLED IN THE 45 DEGREE FITTING AND SHALL FACE DOWN.

ANY PORTIONS OF THE EXISTING IN-GROUND ABSORPTION AREA TRENCHES THAT EXTEND BEYOND THE LIMITS OF THE FINISHED TOE-OF-BERM OF THE NEW SAND MOUND SHALL HAVE THEIR CONTENTS (aggregate and pipe) REMOVED. THE EMPTY TRENCH SECTIONS SHALL, THEN, BE PACKED (to original grade) WITH HIGH-CLAY-CONTENT SOIL.

All construction must meet Chapter 250 of the

On - - - LOT Sewage System Approved

BUCKS COUNTY DEPT. OF HEALTH

8/10/99

BY

EZ

SEQ #

402089

402089

WILLIAMS ~ Hyla

P.O. Box 101

Wycombe, PA 18980

(215) 598-3886



RECEIVED

SEP 09 1999
Bucks County
Dept. of Health

REPAIR ELEVATED SAND MOUND SEWAGE SYSTEM
DESIGNED FOR

RICHARD TIMMONS

SEP 16 1999

TAX PARCEL #6-10-118-1
BUCKINGHAM TOWNSHIP, BUCKS COUNTY
PENNSYLVANIA

SCALE: AS NOTED

DATE: 2 SEP 99

DESIGNED & DRAWN BY: JWW

DRAWING #: 99-061