

Existing Cottage
FFE 691.6'

EXISTING CONTOUR (TYP)
PROPOSED CONTOUR (TYP)
100' SETBACK FROM EXISTING WELL

DUPLEX CONTROL PANEL IN NEMA 4X ENCLOSURE WITH AUDIO/VISUAL HIGH WATER ALARM AND DISCONNECT SWITCH MOUNTED ON HOUSE FOR POST-ALARM AND PUMPS TO BE ON SEPARATE CIRCUITS

4" SCH. 40 PVC SEWER LINE WITH CLEANOUT AND BENDS AS REQUIRED, SLOPE 1/4" PER FT

PROPOSED BOULDER WALL
211 GAL DUPLEX PUMP TANK (LIBERTY 3648 OR EQUAL) WITH LIBERTY PROVOIR (OR EQUAL) GRINDER PUMPS WITH WATERTIGHT LID
INV. IN ± 692.0'
INV. OUT ± 691.9'

PROPOSED PARKING BUMPERS OR PLANING BEDS TO KEEP VEHICLES OFF PUMP TANK

1-1/4" HDPE (MIN 200 PSI) FORCE MAIN WITH BENDS AS REQUIRED, BURIED BELOW FROST DEPTH (MIN. 42")

2000 GALLON DUAL COMPARTMENT SEPTIC TANK, LIDS TO BE WATERTIGHT TO MINIMUM 693.7'
INV. IN ± 692.1'
INV. OUT ± 691.8'

DISTRIBUTION BOX
INV. IN ± 691.7'
INV. OUT ± 691.6'

EXISTING WATER SERVICE FROM WELL

CONNECT 8" ROOF DRAIN COLLECTOR TO NEW 4"DIA. DRYWELL. INSTALL CATCH BASIN STYLE FRAME AND GRATE.
RIM=691.0
INV(N)=688.5

Proposed Replacement Cottage
4-BR
FFE=693.5

COVERED PORCH

Deck

Existing 1-BR Garage
FFE=691.5

Deck

EXISTING SEPTIC TANK AND PUMP TANK TO BE PUMPED AND REMOVED OR FILLED WITH COMPACTED STONE

PROPOSED WATER SERVICE

4" SCH. 40 PVC SEWER LINE WITH CLEANOUT AND BENDS AS REQUIRED, SLOPE 1/4" PER FT, SLEEVED UNDER DRIVEWAY INSIDE 6" PVC OR HDPE

EXISTING 600 GPD ETU TO BE REMOVED

EXISTING D-BOX AND LEACH LINES (3 @ 50') TO BE REMOVED

100' SETBACK FROM MEAN HIGH WATER LINE

PRESBY AES ABSORPTION BED
52' X 16.5' SYSTEM SAND BED (858 SF)
SEVEN (7) ROWS OF PRESBY AES PIPE
50' LONG PER ROW, TOTAL 350 LF
INSTALLED AT GRADE WITH BOTTOM OF PRESBY PIPES AT OR ABOVE 691.0'

LOW VENT (MAY BE REMOTE VENTED)

REMOTE HIGH VENT, MIN 10' ABOVE LOW VENT (SEE REMOTE VENTING DETAIL)

Peat Moss Modules

PROPERTY LINE (TYP)

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WILLIAM J. GROVE, PE
NYS LICENSE #084111



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**REPLACEMENT SEPTIC SYSTEM
WHITBECK RESIDENCE**
5285 BLACK POINT DRIVE
TM# 154.04-1-7.000
TOWN OF CANANDAIGUA
ONTARIO COUNTY, NY
FEBRUARY 1, 2023 (REV. 2/28/23) SHEET 1 OF 6

PLAN VIEW
SCALE 1:20

TOWN OF CANANDAIGUA
DEVELOPMENT OFFICE
RECEIVED
MAR - 3 REC'D
2023
Canandaigua Lake
Mean High Water Line

Approved 2/28/2023 TC

GENERAL NOTES:

1. SITE INVESTIGATION CONSISTING OF ONE (1) DEEP TEST PIT AND TWO PERCOLATION (PERC) TESTS, WAS PERFORMED ON JANUARY 11, 2023 BY WILLIAM J. GROVE, P.E. SEE "SOILS INFORMATION" FOR SUMMARIZED SITE INVESTIGATION RESULTS. BASED ON THE RESULTS OF THE SITE INVESTIGATION, A PRESBY ENVIRO-SEPTIC REPLACEMENT SEPTIC SYSTEM IS PROPOSED.
2. LOCATIONS OF THE SYSTEM COMPONENTS ARE SHOWN IN THE PLAN VIEW AND COMPONENT DETAILS ARE SHOWN SEPARATELY.
4. THE SEPTIC SYSTEM IS DESIGNED TO TREAT AND DISPERSE 750 GALLONS PER DAY BASED ON THE REPLACEMENT 4 BEDROOM COTTAGE PLUS THE EXISTING 1 BEDROOM ABOVE THE GARAGE, THEIR PROPOSED USE AND THE DOH REGULATION.
5. THE PROPOSED WASTEWATER TREATMENT SYSTEM IS DESIGNED FOR NORMAL RESIDENTIAL USAGE WITH A MAXIMUM DAILY FLOW OF 750 GALLONS PER DAY. HIGH FLOW FIXTURES (SHOWER HEADS, FAUCETS, TOILETS, ETC.) ARE NOT TO BE INSTALLED OR USED IN THE HOUSE. USE OF HIGH FLOW FIXTURES AND/OR MULTIPLE SHOWER HEADS IN THE HOME COULD CAUSE HYDRAULIC OVERLOADING OF THE SYSTEM AND LEAD TO PREMATURE FAILURE OF THE SEPTIC SYSTEM.
6. WATER SUPPLY IS SERVICED BY A WELL LOCATED NORTH OF THE COTTAGE, WITH SERVICE AS SHOWN ON THE PLAN.
7. THE BACKFILL IS TO BE GRADED TO ROUTE SURFACE WATER AWAY FROM THE ABSORPTION FIELD.
8. WATER TREATMENT SYSTEM WASTES (SUCH AS FROM A WATER SOFTENER) ARE TO BE EXCLUDED FROM THE SYSTEM.
9. IF THE HOUSE USES A WATER SOFTENER, THE WATER SOFTENER DISCHARGE SHALL NOT BE ROUTED TO THE WASTEWATER SYSTEM. THE WATER SOFTENER DISCHARGE SHOULD BE DIRECTED TO ITS OWN SUBSURFACE DISPOSAL SYSTEM LOCATED AWAY FROM THE PROPOSED LEACH AREA.
10. NO "CLEAN" WATER IS TO ENTER THE SYSTEM VIA ROOF DRAINS, SUMP PUMPS, FOOTING DRAINS, ETC. THE SYSTEM IS A DISPOSAL UNIT FOR COMMON BATHROOM, LAUNDRY AND KITCHEN WASTES ONLY. GARBAGE GRINDERS ARE NOT TO BE USED ON THIS SYSTEM.
11. THE CONTRACTOR IS TO CONTACT DIG SAFELY NEW YORK AT 800-962-7962 TO VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO DOING ANY EXCAVATION WORK.
12. NO PART OF THE SYSTEM IS TO BE LOCATED UNDER DRIVEWAYS, BUILDINGS, SWIMMING POOLS OR OTHER AREAS SUBJECT TO HEAVY LOADING UNLESS DESIGNED FOR SUCH.
13. HEAVY CONSTRUCTION EQUIPMENT MUST NOT BE ALLOWED WITHIN THE AREA OF THE SYSTEM PRIOR TO CONSTRUCTION
14. ALL VEGETATION SHALL BE CUT AS CLOSE TO GRADE AS POSSIBLE AND THE SOD SHALL BE REMOVED.
15. AFTER REMOVING VEGETATION AND EXCAVATING TO DESIGN DEPTH, PLACE 6" OF SYSTEM SAND ON REQUIRED AREA AND RAKE INTO UNDERLYING SOIL USING THE TEETH OF THE BUCKET TO ENSURE A MIXED INTERFACE BETWEEN THE TWO SOILS. SYSTEM SAND MUST MEET THE REQUIREMENTS OF ASTM C-33 AND THE PRESBY ENVIRONMENTAL DESIGN MANUAL. CONCRETE SAND MAY BE ACCEPTABLE FOR USE AS SYSTEM SAND PROVIDING THAT NO MORE THAN 2% CAN PASS A #200 SIEVE.
16. INSTALL THE ENVIRO-SEPTIC PIPES ON THE SYSTEM SAND. FILL AROUND THE PIPES AND 6" ON TOP OF PIPES WITH SYSTEM SAND AS SHOWN ON THE CROSS SECTION.
17. THE ENVIRO-SEPTIC PIPES SHOULD NEVER BE DOSED WITH A FLOW GREATER THAN 40 GPM.
18. THE TOPSOIL SURFACE OF THE FILL SHALL BE GRADED TO ENHANCE RUNOFF OF PRECIPITATION.
19. ON SLOPED SITES, A DIVERSION DITCH OR CURTAIN DRAIN SHALL BE CONSTRUCTED UPHILL FROM THE FILL TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL.
20. RAISED SYSTEM SHALL INCORPORATE AN AUTOMATIC DOSING DEVICE OR PRESSURE DISTRIBUTION. GRAVITY DISTRIBUTION MAY BE INSTALLED UNDER THE JURISDICTION OF A LOCAL HEALTH DEPARTMENT WITH A SYSTEM DESIGN AND CONSTRUCTION INSPECTION CERTIFICATION PROGRAM.
21. THE CONTRACTOR SHALL PROVIDE AN ACCURATE AS-BUILT MAP TO THE OWNER REFERENCING ALL SYSTEM COMPONENTS TO PERMANENT SITE FEATURES FOR LATER RECOVERY.
22. AFTER AN ENVIRONMENTAL ASSESSMENT, THE ENGINEER HAS DETERMINED THAT THE DEVELOPMENT OF THE SITE WITH THE PROPOSED SYSTEM IS CONSISTENT WITH THE OVERALL DEVELOPMENT OF THE AREA AND WILL CAUSE NO ADVERSE ENVIRONMENTAL IMPACTS.
23. THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM MUST BE DESIGNED AND THE INSTALLATION SUPERVISED AND CERTIFIED BY A DESIGN PROFESSIONAL.
24. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO CONTACT THE LOCAL CODE ENFORCEMENT OFFICER ABOUT ANY REQUIRED PERMITS OR FEES BEFORE STARTING WORK ON THE SYSTEM INSTALLATION.

DESIGN CALCULATIONS:

| | |
|---------------------------------------|--|
| DESIGN FLOW | 4 BEDROOM COTTAGE PLUS 1 BEDROOM ABOVE GARAGE = 5 BR TOTAL @ 150 GALLONS PER DAY (GPD)/BEDROOM = 750 GPD |
| SEPTIC TANK: | PROPOSED 2000 GALLON DUAL COMPARTMENT SEPTIC TANK |
| DESIGN PERC. RATE: | 1 TO 5 MINUTES/INCH |
| REQUIRED ENVIRO SEPTIC TRENCH LENGTH: | 350 FEET (70 LF PER BEDROOM) 350 FEET PROPOSED |
| REQUIRED BASAL AREA: | 625 SQ. FEET (1.2 GPD/SF) 858 SQ. FEET PROPOSED (52' x 16.5') |

SEVEN (7) 50 FOOT LONG PRESBY AES LINES ARE PROPOSED (TOTAL 350 FEET). PIPES TO BE SPACED AT 1.5 FT ON CENTER

CALCULATION REFERENCE BASED ON N.Y.S.D.O.H., "INDIVIDUAL RESIDENTIAL WASTEWATER TREATMENT SYSTEMS - DESIGN HANDBOOK", 2012 AND PRESBY ENVIRONMENTAL INC. DESIGN AND INSTALLATION MANUAL

PERCOLATION TEST RESULTS:

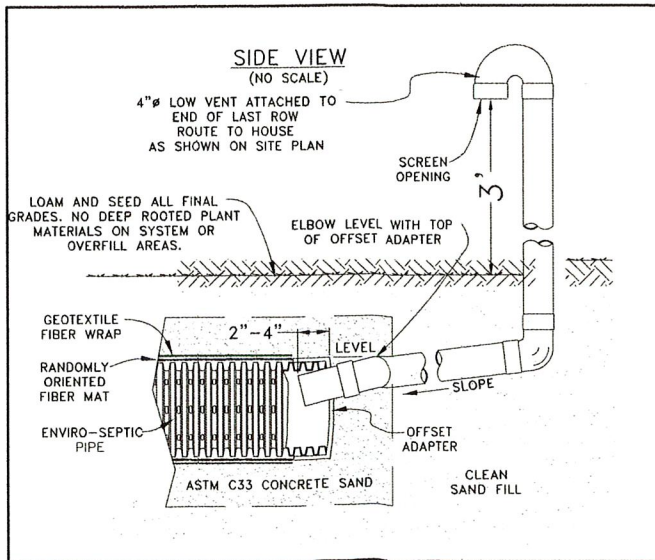
| TEST NUMBER | DEPTH | PERC RATES (MIN/INCH) | STABILIZED PERC RATE |
|-------------|-------|-----------------------|----------------------|
| PT -1 | 24" | 3, 3, 3, | 3 MIN/INCH |
| PT -2 | 24" | 3, 3, 3, | 3 MIN/INCH |

SOILS INFORMATION:

| | |
|---------------|--------------------------|
| DH - 1 | |
| 0" - 8" | DARK BROWN LOAMY TOPSOIL |
| 8" - 38" | LEACHING SAND FILL |
| 38" - 48" | TOPSOIL |
| NO MOTTILING | |
| ROOTS TO 40"+ | |

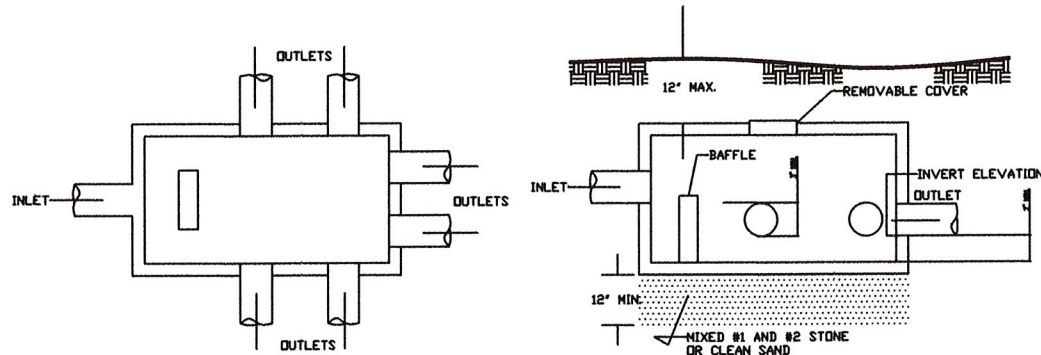
KEY:

- PT-1 PERC TEST LOCATION
- DH-1 TEST PIT LOCATION



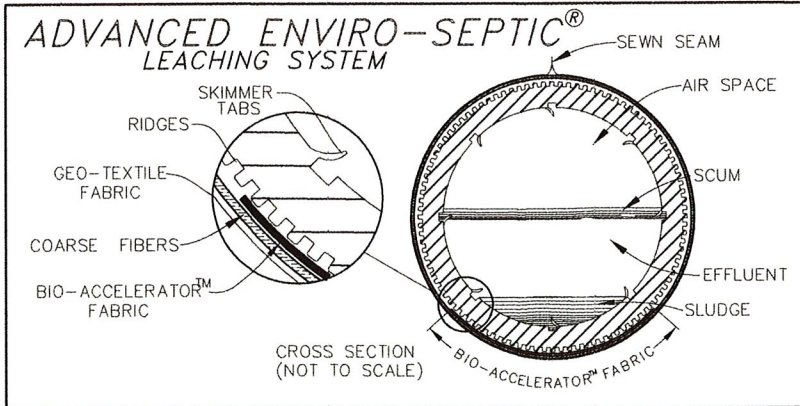
DISTRIBUTION & DROP BOX NOTES:

1. DISTRIBUTION BOX OR DROP BOXES USED MUST BE ACCEPTABLE TO THE WATERSHED INSPECTOR. (SEE "SYSTEM PLAN SKETCH" ON SHEET 1 OF 2 FOR LOCATION AND NUMBER OF LINES; DISTRIBUTION BOX OR DROP BOX TO HAVE AT LEAST ONE EXTRA PLUGGED OUTLET).
2. PIPE JOINTS TO BE WATERTIGHT
3. INVERT ELEVATIONS OF ALL OUTLET PIPES FROM THE DISTRIBUTION BOX MUST BE EQUAL USE OF FLOW ADJUSTABLE LEVELING DEVICES IS REQUIRED ON EACH OUTLET.
4. INVERT ELEVATIONS OF ALL OUTLET TRENCHLINE PIPES FROM DROP BOXES MUST BE EQUAL. USE OF FLOW ADJUSTABLE LEVELING DEVICES IS REQUIRED ON EACH TRENCHLINE OUTLET.
5. THE SLOPE OF OUTLET PIPES BETWEEN THE DISTRIBUTION BOX OR DROP BOX AND DISTRIBUTOR LATERALS TO BE AT LEAST 1/8' PER FOOT.
6. BAFFLES ARE REQUIRED. INLET PIPE SLOPE SHALL BE AT LEAST 1/8'
7. A MINIMUM OF 2 FEET OF SOLID PIPE SHALL EXTEND LEVEL OUT OF DISTRIBUTION BOX OR DROP BOX FROM ALL OUTLETS.



DISTRIBUTION BOX DETAILS

NOT TO SCALE



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REPLACEMENT
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WHITBECK
RESIDENCE

5285 BLACK POINT DR

TM#154.04-1-7.000

TOWN OF
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SHEET 2 OF 6



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NUMBER OF ENVIRO-SEPTIC LINES: 7
 LENGTH OF EACH LINE: 50'
 CENTER TO CENTER SPACING: 1.5'

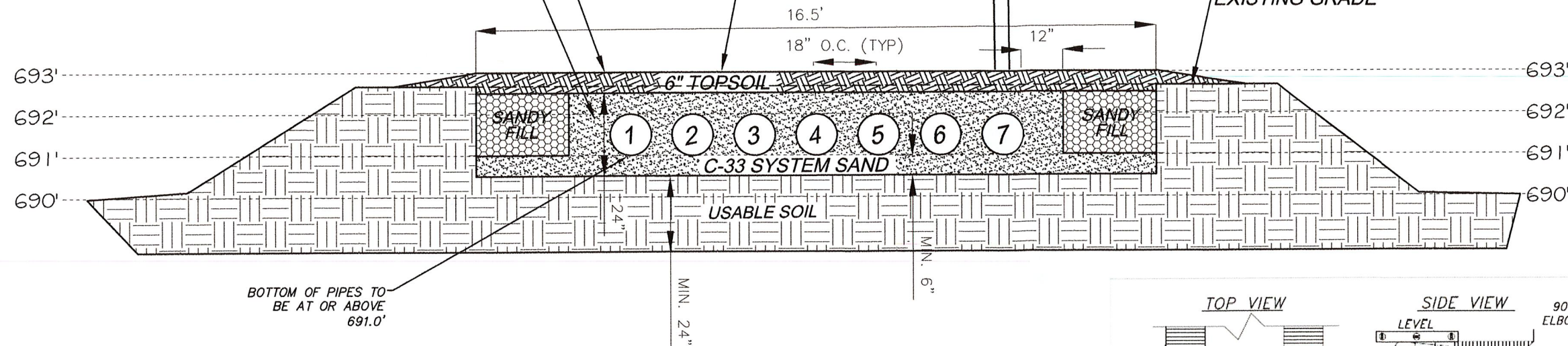
LEACH AREA TO BE SEEDED AND
 MAINTAINED AS LAWN

ADVANCED ENVIRO-SEPTIC LINE (TYP)

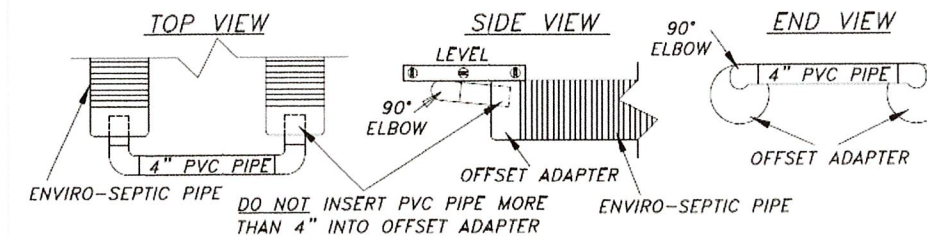
LOW VENT
 4" VENT TO 3' ABOVE GRADE
 MAY BE REMOTE VENTED

FINISHED GRADE

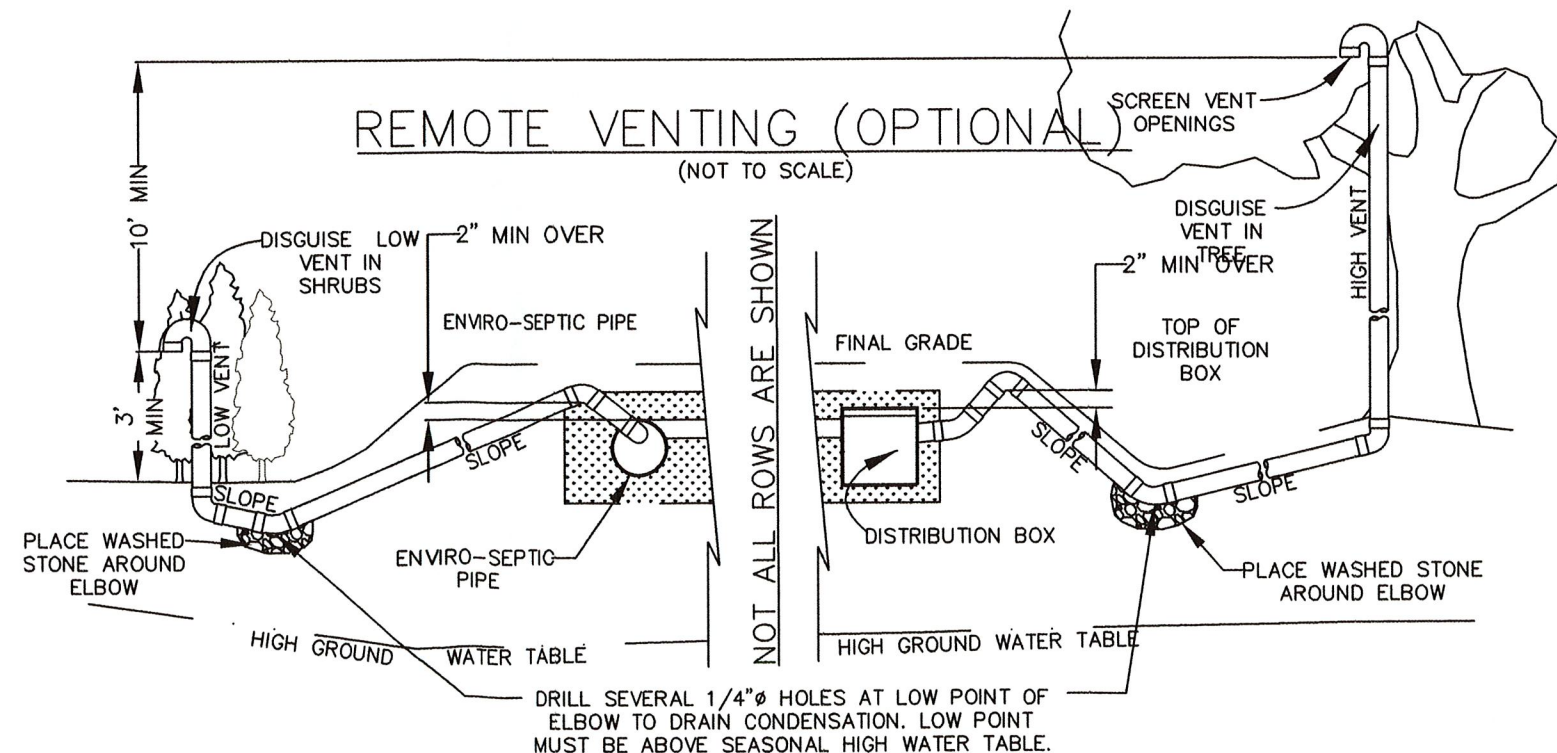
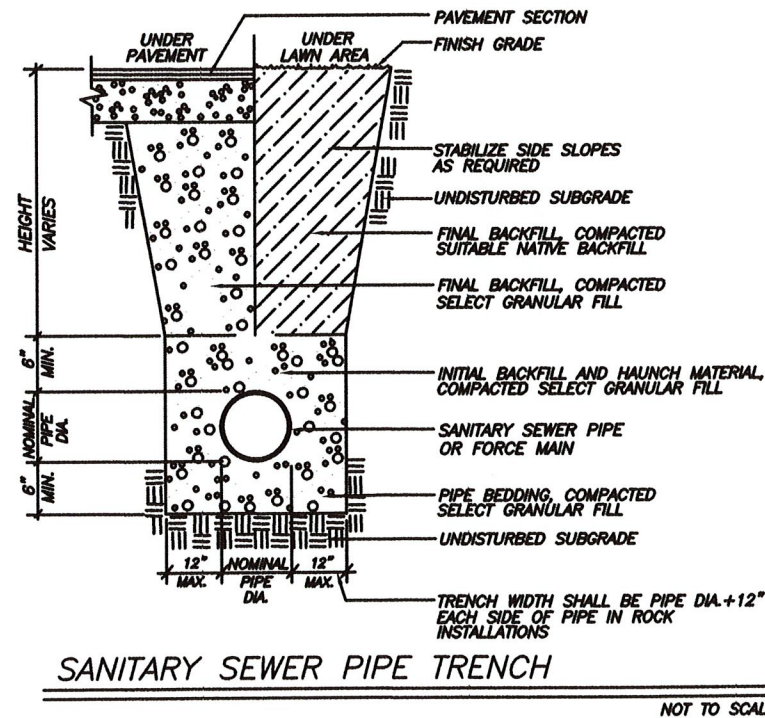
EXISTING GRADE



EFFLUENT DISPOSAL AREA
 CROSS SECTION - NOT TO SCALE
 (FLAT DISPERSAL AREA)



RAISED CONNECTION DETAIL (NOT TO SCALE)



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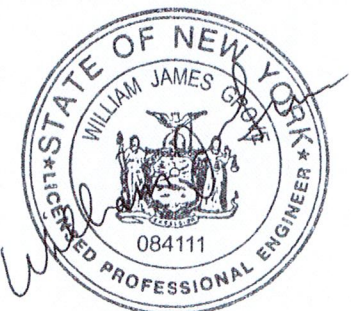
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SHEET 4 OF 6



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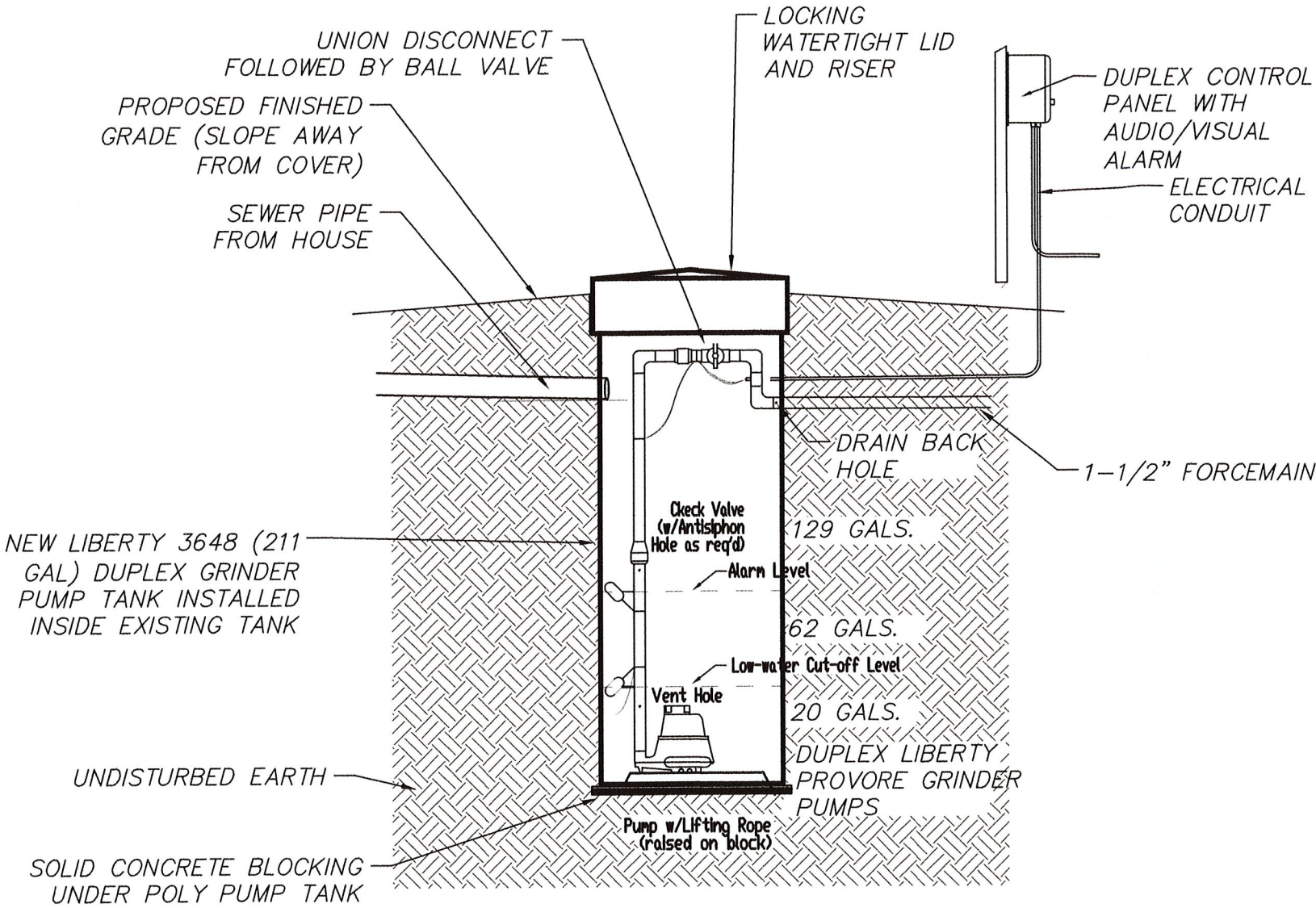
FEBRUARY 1, 2023
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SHEET 5 OF 6



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| GRINDER PUMP DESIGN CALCULATIONS | |
|----------------------------------|--------|
| PUMP ELEVATION | 688.5 |
| OUTLET ELEVATION | 692.1 |
| STATIC HEAD | 3.6 |
| FORCE MAIN LENGTH | 201 |
| FORCE MAIN DIAMETER | 1.25' |
| FORCE MAIN VOLUME/LF | 0.0638 |
| TOTAL FORCE MAIN VOLUME | 12.8 |
| ANTICIPATED FLOW RATE | 30 GPM |
| FRICTION HEAD AT FLOW RATE | 22 |
| TOTAL DYNAMIC HEAD | 25.60 |
| DOSE VOLUME | 62 GAL |



GRINDER PUMP TANK DETAIL

NOT TO SCALE

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PRG-SERIES
Grinder Pump

Liberty Pumps
A Family and Employee Owned Company

1 hp
2" Discharge

Designed for sewage applications
Higher flow rates allow use with
2" discharge lines
Operates on standard 115V or 230V
20A circuits

Features

- Heavy cast iron construction
- 115V or 230V 1-phase
- Patented V-Slice® Cutter Technology
- Shreds difficult solids such as feminine products, rags, towels, and wipes that can jam a solids handling style pump
- Hardened stainless-steel cutter and plate
- Oil-filled, thermally protected motor
- PRG-Series grinders can be used as a replacement pump in 2" discharge systems using LE40 and LE50-Series solids handling pumps.*

*Consult factory with actual application and head specifications prior to replacing LE40 and LE50-Series pumps.

Models

| | |
|----------|---|
| PRG101M | 115V, 12A, Manual |
| PRG101A | 115V, 12A, Automatic, wide-angle |
| PRG101AV | 115V, 12A, Automatic, vertical float switch |
| PRG102M | 230V, 6A, Manual |
| PRG102A | 230V, 6A, Automatic |

ProVore®



Model PRG101A

Patent: See
LibertyPumps.com/patents



Vertical Float Switch
Model PRG101AV



PRG-Series

Impeller

Cast iron, class 25 vortex style

Paint

Powder coat

Max Fluid Temperature

140°F (60°C) Intermittent
104°F (40°C) Continuous duty

Motor Specifications

1 hp 12A (115V) 6A (230V)
CSCR style, class B windings
Oil-filled, thermally protected

Power Cord Type

SJTW Quick-connect design
10' Standard length (25' optional)

Motor Housing

Class 30 cast iron

Shaft

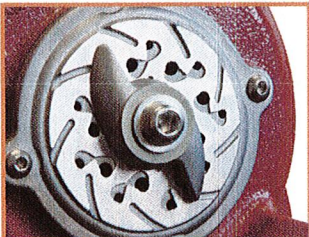
303 Series stainless steel

Volute

Class 30 cast iron

V-Slice® Cutter Technology

Shreds difficult solids such as feminine products, wipes, rags, and other debris.



440 Series stainless steel hardened to Rockwell 57c

Patent: See
LibertyPumps.com/patents

Models

| MODEL | HP | VOLTS | PHASE | HZ | AMPS | CORD LENGTH | DISCHARGE | AUTOMATIC | WEIGHT |
|----------|----|-------|-------|----|------|-------------|-----------|-----------------------|--------|
| PRG101A | 1 | 115 | 1 | 60 | 12 | 10' | 2" | Wide-Angle | 58 lbs |
| PRG101AV | 1 | 115 | 1 | 60 | 12 | 10' | 2" | Vertical Float Switch | 58 lbs |
| PRG101M | 1 | 115 | 1 | 60 | 12 | 10' | 2" | No | 57 lbs |
| PRG102A | 1 | 230 | 1 | 60 | 6 | 10' | 2" | Wide-Angle | 58 lbs |
| PRG102M | 1 | 230 | 1 | 60 | 6 | 10' | 2" | No | 57 lbs |

For optional 25' power cords, add a "-2" suffix to model number. Example: PRG101A-2

Specifications subject to change without notice.

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Hardware

Stainless steel

Mechanical Shaft Seal

Unitized graphite impregnated silicon carbide

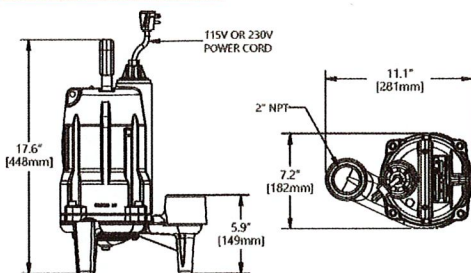
Bearings

Upper and lower ball bearings

Float Switch (automatic models)

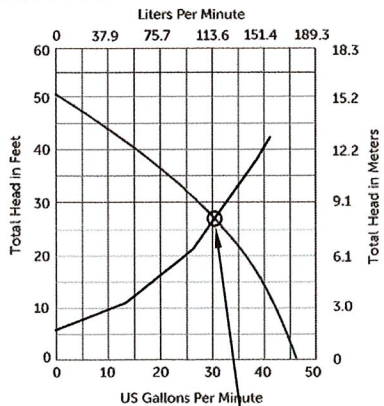
Mechanical wide-angle float switch with series (piggyback) plug

Dimensional Data



Performance Curve

60 Hz, 3450 RPM



Liberty Pumps - 7000 Apple Tree Avenue - Bergen, New York 14416
Phone 800-543-2550 - Fax 585-494-1839 - www.LibertyPumps.com

APPROXIMATE
OPERATING POINT
30 GPM, 26.5' TDH



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SHEET 6 OF 6



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