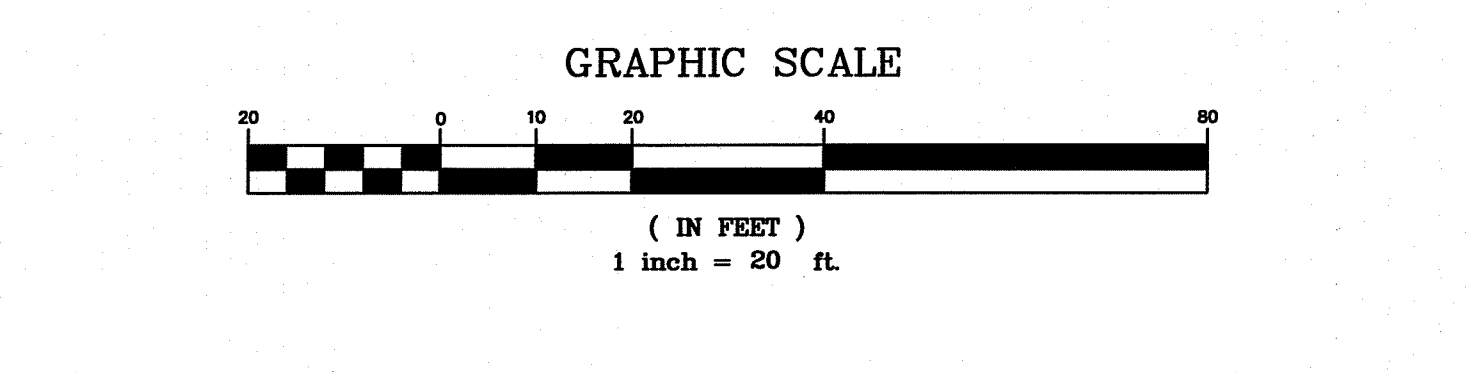
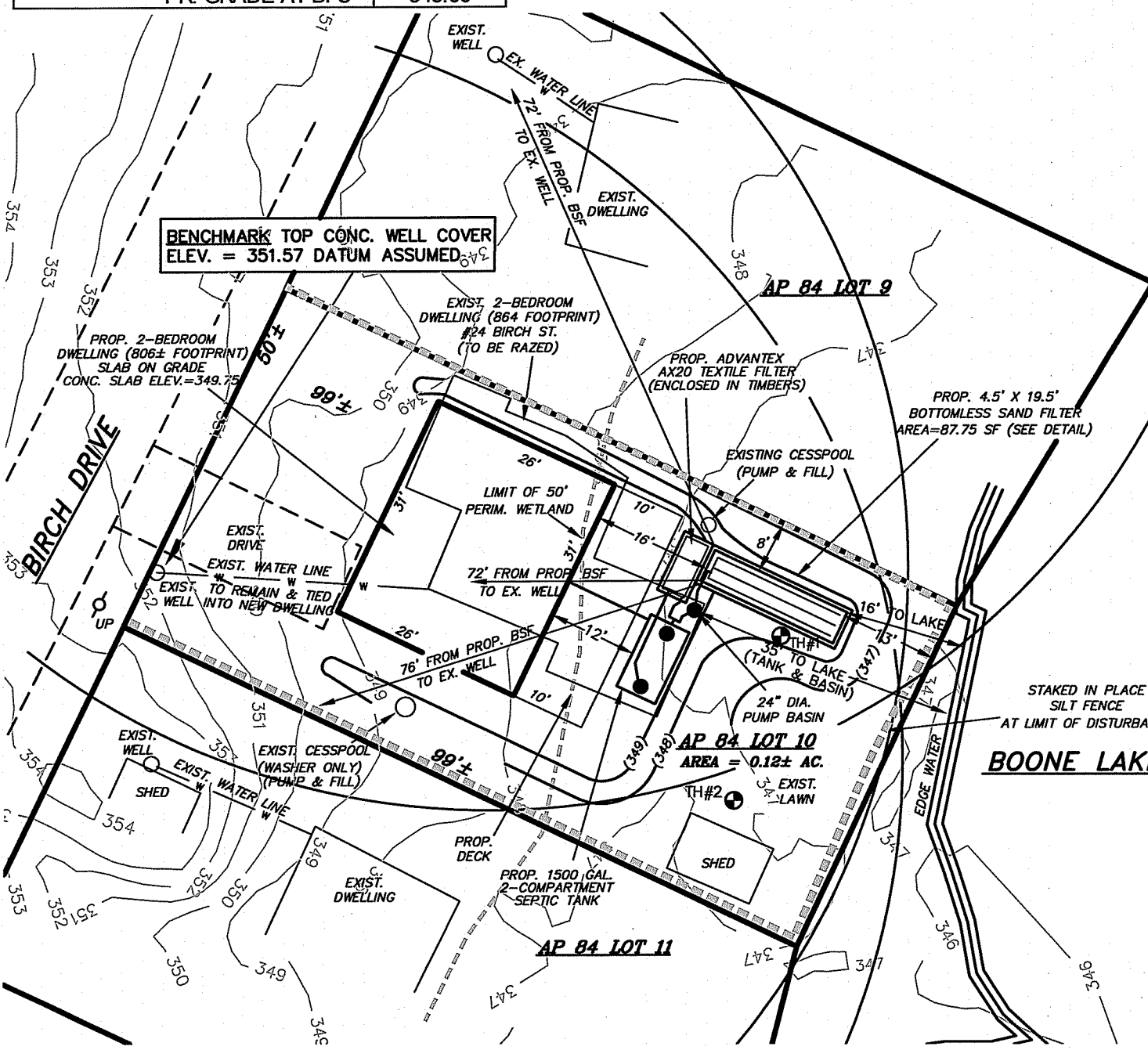
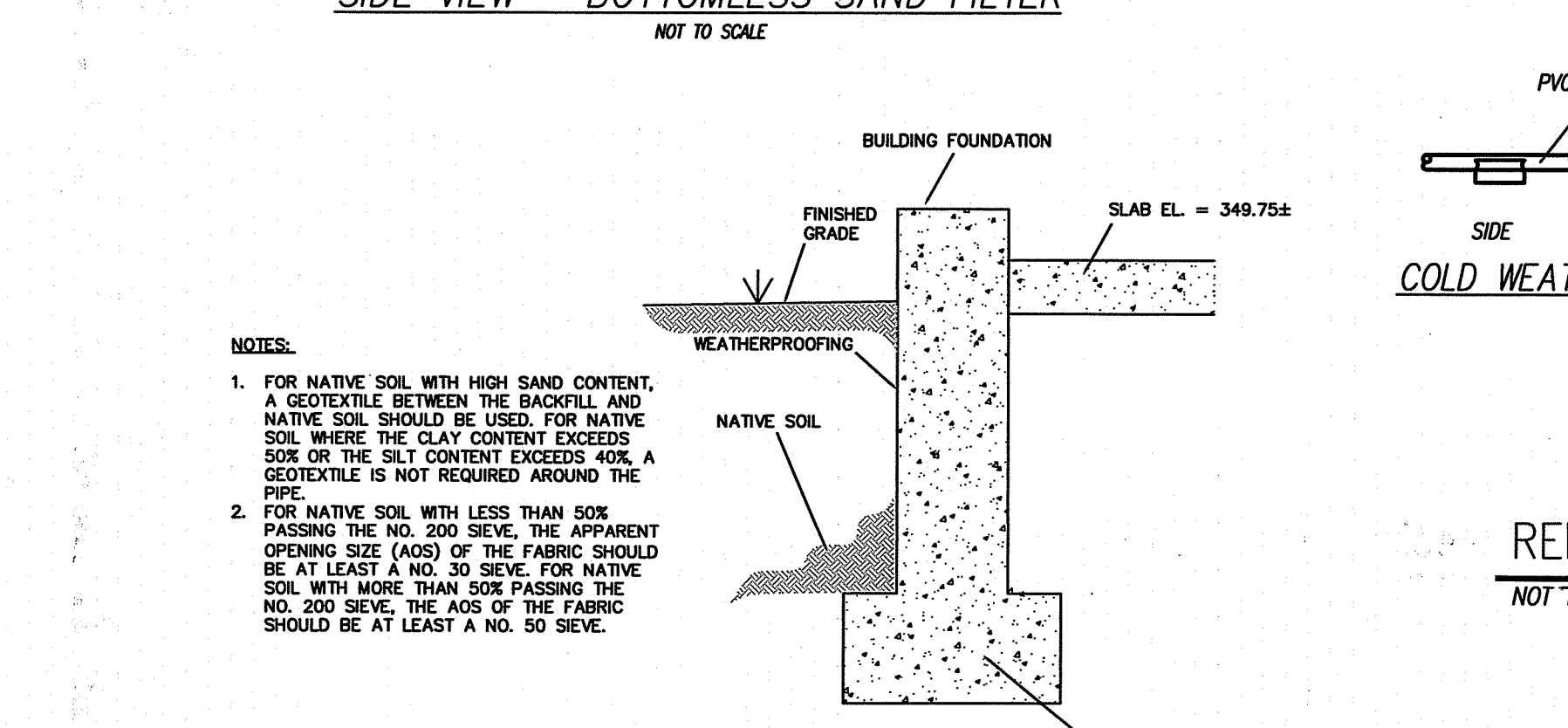
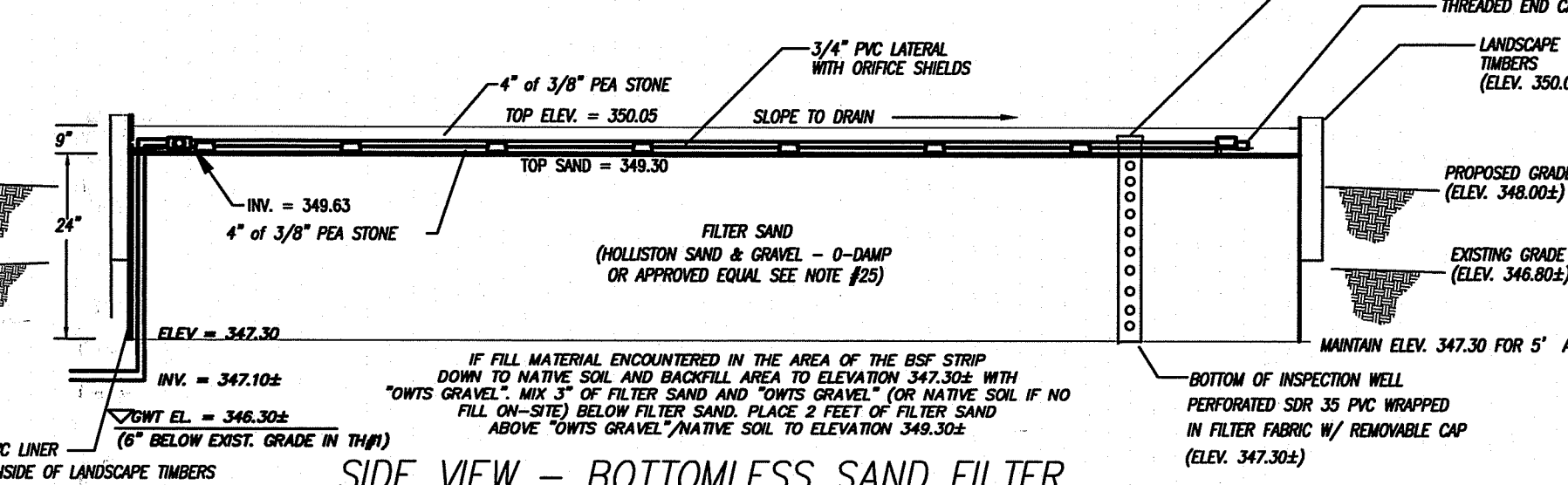
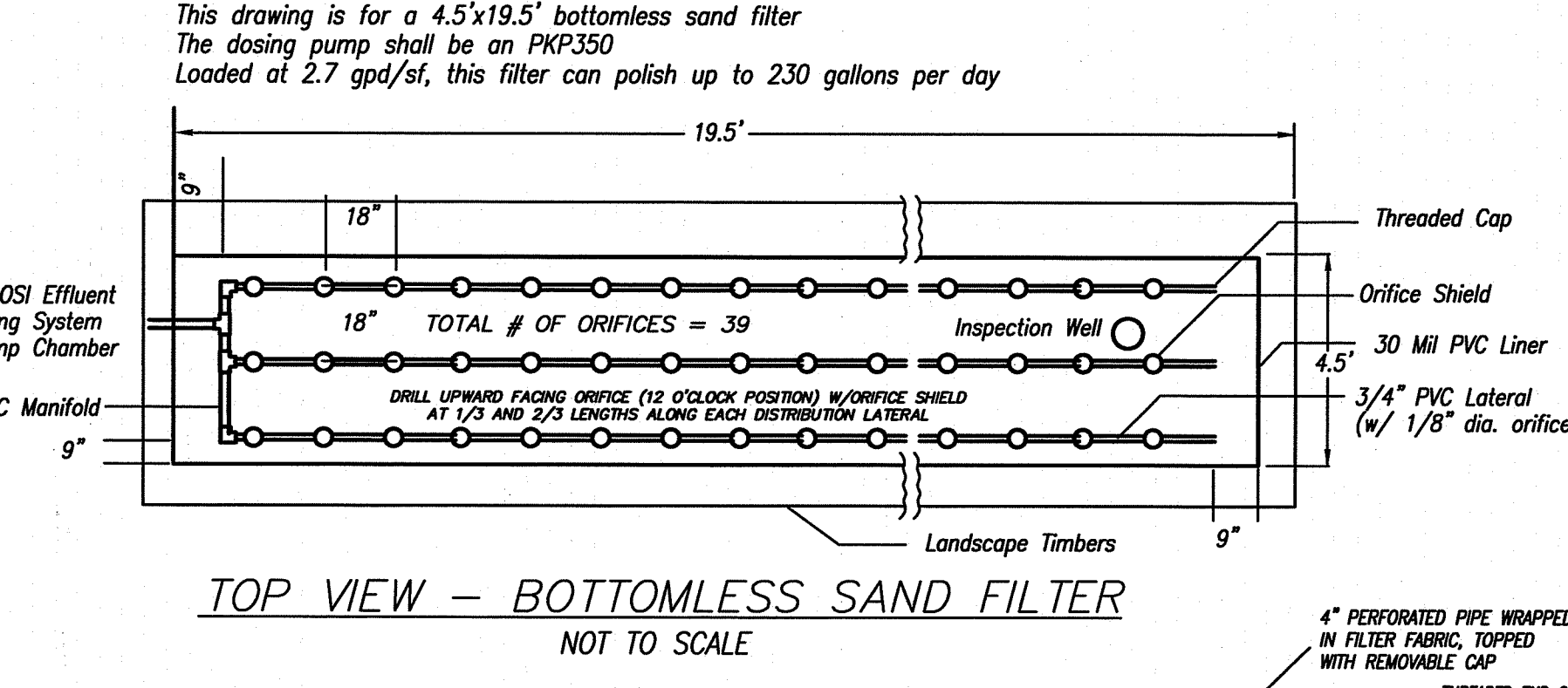


INVERT SCHEDULE	ELEVATION
SLAB ELEV =	349.75
BUILDING SEWER ELEV =	347.14
INTO TANK =	348.90
TOP OF TANK =	347.73
BOT OF TANK =	342.31
COVER ELEV OVER TANK =	349.23
RSV INV =	347.07
INV OUT ADV. PUMP =	348.00
INV INTO PUMP BASIN =	346.90
INV OUT PUMP BASIN =	346.90
COVER ELEV OVER PUMP BASIN =	349.10
BFS PUMP HW ALARM ELEV =	346.65
BSF PUMP ON ELEV =	346.40
BSF PUMP OFF ELEV =	346.10
BOT OF PUMP BASIN =	344.10
TOP OF ADV. UNIT =	350.05
ADV. UNIT INV IN =	349.55
ADV. UNIT INV OUT =	347.55
EX. GRADE AT BSF =	346.80
GWIT ELEV AT BSF =	346.30
BOT OF BSF ELEV =	347.30
TOP OF SAND ELEV =	349.30
BSF LATERAL INV ELEV =	349.63
TOP OF P-STONE/BSF =	350.05
INV INTO BSF BOX =	347.10
PR. GRADE AT BFS =	348.00



4.5' x 19.5' Bottomless Sand Filter



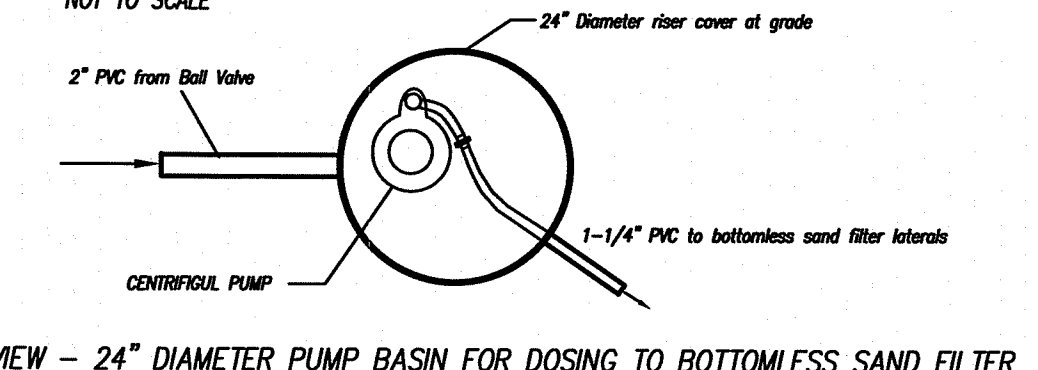
NOTES:

- FOR NATIVE SOIL WITH HIGH SAND CONTENT, A GEOTEXTILE BETWEEN THE SANDFILL AND NATIVE SOIL SHOULD BE USED. FOR NATIVE SOIL WHERE THE CLAY CONTENT EXCEEDS 40%, A GEOTEXTILE IS NOT REQUIRED AROUND THE PIPE.
- FOR NATIVE SOIL WITH LESS THAN 50% PASSING THE NO. 200 SIEVE, THE APPARENT OPENING SIZE (AOS) OF THE FABRIC SHOULD BE AT LEAST A NO. 30 SIEVE. FOR NATIVE SOIL WITH MORE THAN 50% PASSING THE NO. 200 SIEVE, THE AOS OF THE FABRIC SHOULD BE AT LEAST A NO. 50 SIEVE.



TAX MAP - SCALE 1" = 30'±
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED SEP 14, 2020 FILE # 25-0137
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

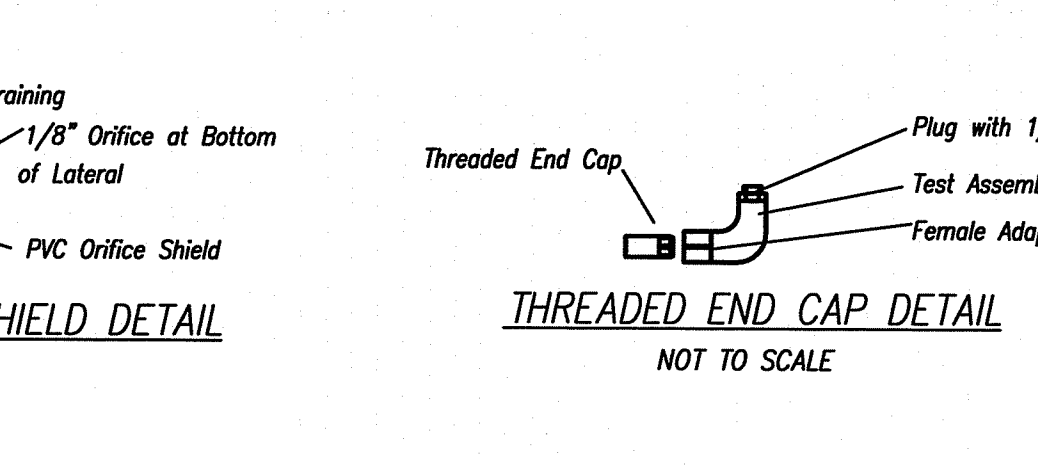
Bottomless Sand Filter Pump Basin



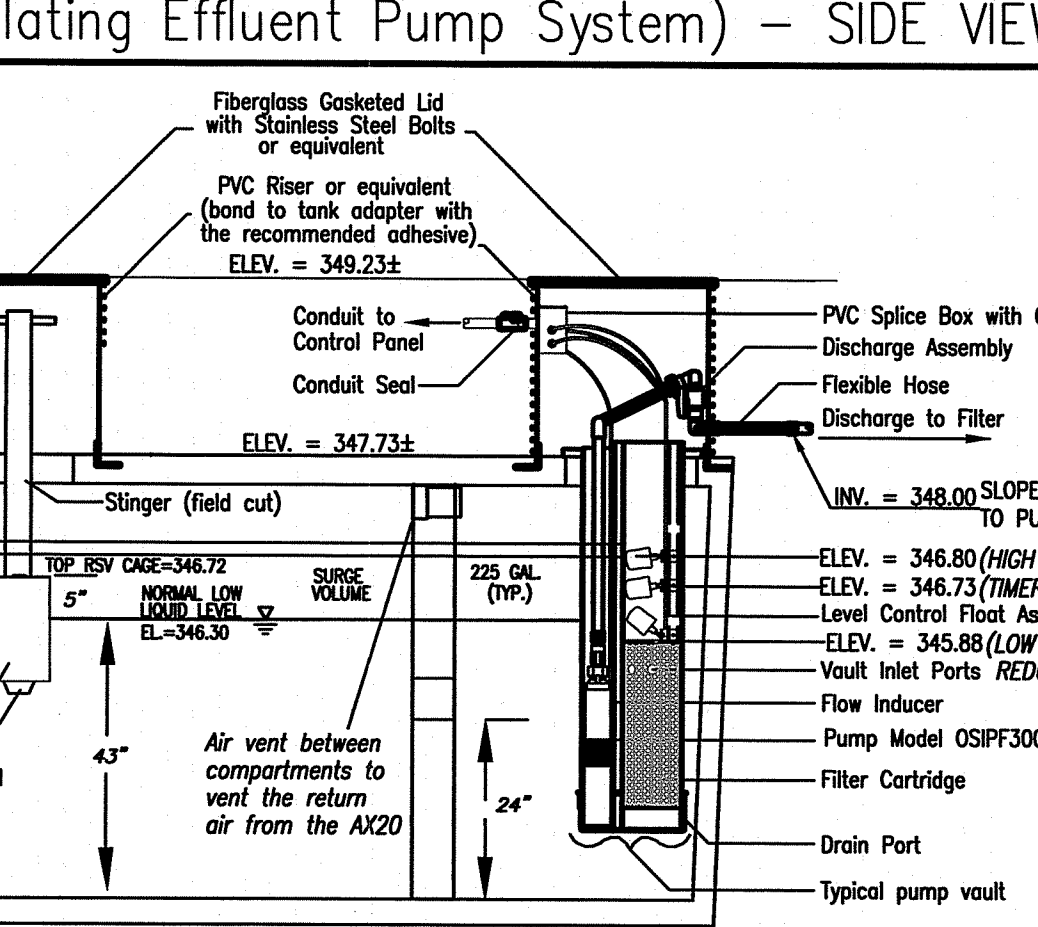
- LIST OF COMPONENTS**
- 1500 GALLON 2-COMPARTMENT CONCRETE SEPTIC TANK WITH PUMP VAULT AND RECIRCULATION SPLITTING VALVE.
 - 24" DIAMETER PUMP BASIN (5' DEPTH).
 - AX20 ADVANTEX TEXTILE FILTER.
 - 19.5' LONG x 4.5' WIDE BOTTOMLESS SAND FILTER
 - ORENCO SYSTEMS, INC. CONTROL PANEL.

SCHEDULE OF PVC PIPE SIZES

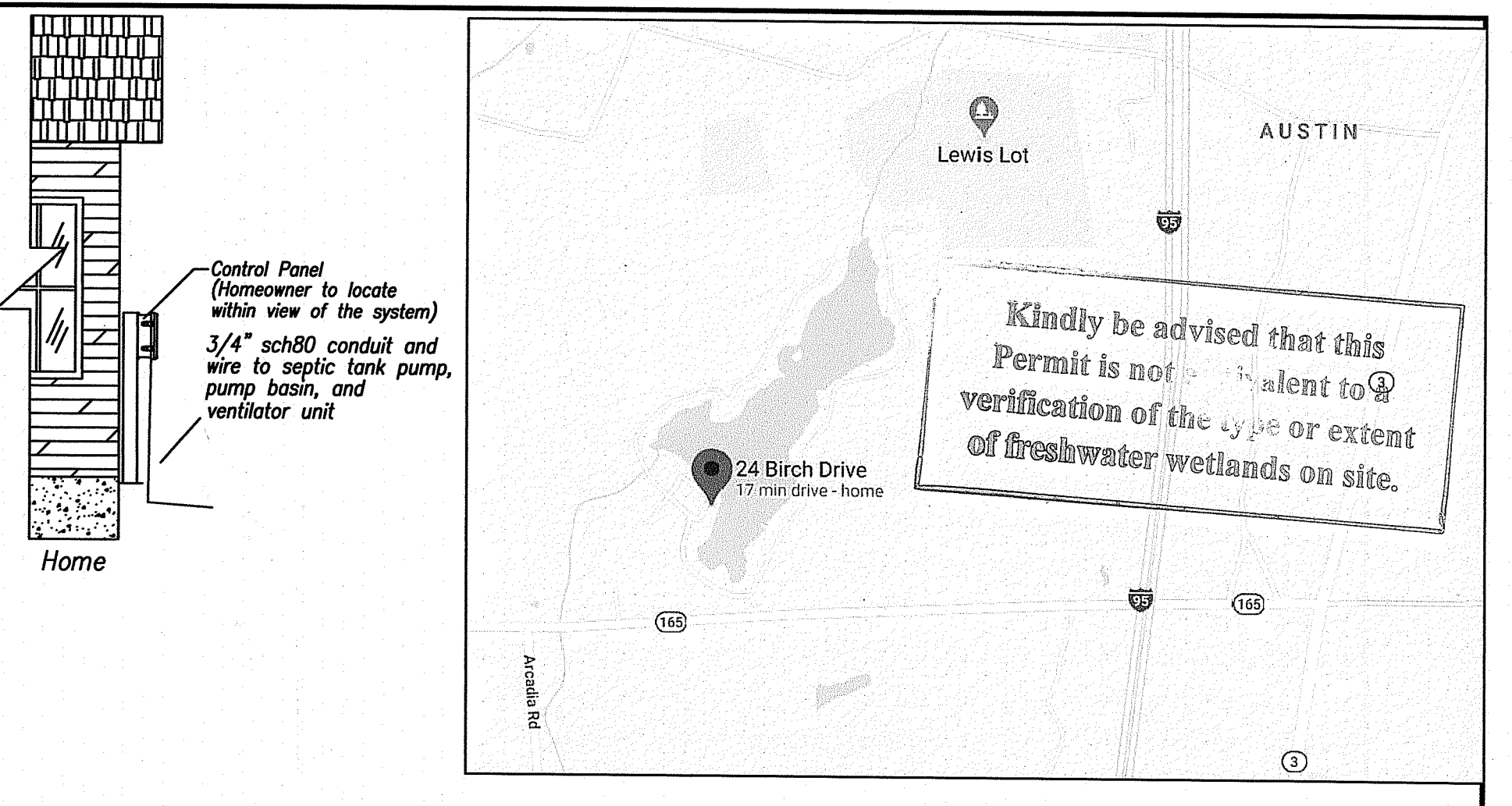
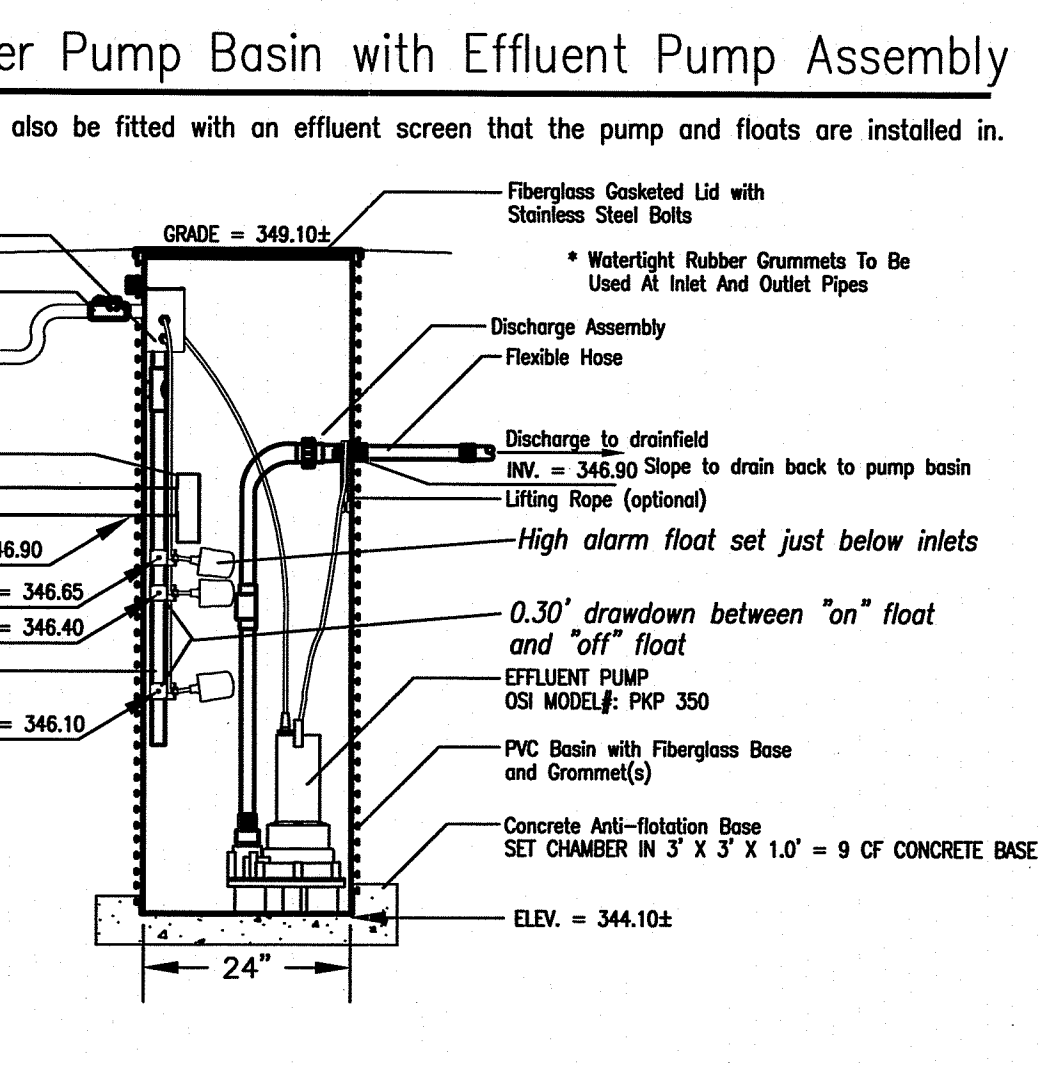
BUILDING TO SEPTIC TANK	4" SCH 40
SEPTIC TANK TO TEXTILE FILTER	1" SCH. 40 OR EQUAL
TEXTILE FILTER MANIFOLD	1" SCH. 40 OR EQUAL
TEXTILE FILTER LATERALS	3/4" SCH. 40 OR EQUAL
TEXTILE FILTER TO PUMP BASIN	2" SCH 40
PUMP BASIN TO DRAINFIELD	1-1/4" SCH 40 OR EQUAL
DRAINFIELD MANIFOLD	1-1/4" SCH. 40 OR EQUAL
DRAINFIELD LATERALS	3/4" SCH. 40 OR EQUAL



REPS (Recirculating Effluent Pump System) - SIDE VIEW



Bottomless Sand Filter Pump Basin with Effluent Pump Assembly



GENERAL NOTES

- ALL OTHER DESIGN, CONSTRUCTION AND MAINTENANCE REQUIREMENTS WHETHER NOTED HEREON, OR NOT, SHALL BE IN CONFORMANCE WITH RULES & REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS NOVEMBER 25, 2018 AS AMENDED.
- SEE OWTS SPECIFICATIONS ATTACHED.
- CLEAR ALL TREES AND STUMPS WITHIN 10' OF SYSTEM.
- THERE SHALL BE NO SUBSURFACE, FOUNDATION OR STORM DRAINS WITHIN 25' OF THE SYSTEM UNLESS NOTED.
- COMPLY WITH ALL ADDITIONAL TERMS OF APPROVAL AS MAY BE REQUIRED BY RIDEM.
- TOPOGRAPHY AND SITE PLAN BASED ON LIMITED GROUND SURVEY PERFORMED BY GARY C. LAMOND, PE, LLC IN MAY, 2020.
- PROPERTY LINE BASED ON TOWN OF EXETER ASSESSORS AND LAND EVIDENCE RECORDS ONLY. A FIELD SURVEY SHOULD BE PERFORMED BY A RHODE ISLAND LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION TO ENSURE THAT ALL REQUIRED SETBACKS ARE MET.
- BENCHMARK IS SET WITHIN 150' OF PROPOSED OWTS PRIOR TO CONSTRUCTION. (SEE SITE PLAN.)
- THERE ARE NO EXISTING OR PROPOSED PRIVATE DRINKING WATER WELLS WITHIN 200' OF THE PROPOSED OWTS OR ALTERNATE AREA EXCEPT AS SHOWN.
- THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY WELLS WITHIN 500' OF THE PROPOSED OWTS OR ALTERNATE AREA EXCEPT AS SHOWN.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLAN ON-SITE AT ALL TIMES.
- SCHEDULE 40 PVC PIPE OR EQUAL FROM BUILDING TO SEPTIC TANK.
- THE PROPOSED SEPTIC TANK SHALL BE PROVIDED WITH A PVC INLET TEE AND A SCREENED PUMP VAULT IN THE OUTLET END. AN ACCESS RISER SHALL BE INSTALLED DIRECTLY ABOVE THE INLET TEE AND BALL VALVE, AND THE SCREENED PUMP VAULT.
- THE SEPTIC TANK SHALL BE A WATER TIGHT, 1500 GAL. 2-COMPARTMENT TANK WITH 24" DIAMETER INLET AND OUTLET ACCESS RISERS. RISERS SHALL BE PVC WITH SECURED FIBERGLASS LID. IF CONCRETE TANK IS USED, ABS TANK ADAPTOR SHALL BE CAST INTO PLACES. TANK SHALL BE VACUUM TESTED WHEN CONSTRUCTED OR WATER TESTED/VACUUM TESTED ON SITE. (CONCRETE TANK MAY BE PURCHASED FROM JOLLY PRECAST, INC. AT 1-800-582-4638.)
- THE CONTRACTOR MUST FOLLOW ALL ITEMS CIRCLED IN THE LOWER RIGHT HAND AREA OF THE OWTS APPLICATION LABELED--IMPORTANT AND NOTIFY ENGINEER DURING THE DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
- THE CONTRACTOR MUST NOTIFY LICENSED DESIGNER 48 HOURS PRIOR TO START OF CONSTRUCTION WITH VALID INSTALLERS LICENSE NUMBER. DESIGNER MUST NOTIFY DEM 24 HOURS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH RIDEM REGULATIONS.
- IF CONTRACTOR ENCOUNTERS UNANTICIPATED CONDITIONS DURING CONSTRUCTION WHICH INDICATE THAT THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, INSTALLER SHALL STOP CONSTRUCTION AND NOTIFY THE LICENSED DESIGNER RESPONSIBLE FOR WITNESSING AND INSPECTING THE INSTALLATION IN ACCORDANCE WITH RIDEM REGULATIONS.
- THE LICENSED DESIGNER SHALL WITNESS AND INSPECT ALL ASPECTS OF THE INSTALLATION, KEEP RECORDS, PREPARE THE CERTIFICATE OF COMPLETION AND PROVIDE O & M INFORMATION AND RECOMMENDATIONS TO THE OWNER, IN ACCORDANCE WITH RIDEM REGULATIONS.
- THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENCE OR OMISSION OF A USER OF AN OWTS, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE OWTS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE ADVANTEX AX TREATMENT SYSTEM CONSISTS OF A PACKED BED FILTER THAT USES SPECIALLY DESIGNED TEXTILE MATERIALS WITHIN A PRE-ASSEMBLED UNIT.
- SMALL DIAMETER, PRESSURIZED PVC PIPE SHALL BE SCHEDULE 40 OR EQUAL, WITH SOLVENT WELDED CONNECTIONS.
- PUMPS SHALL BE AS MANUFACTURED BY ORENCO SYSTEMS, INC. OR APPROVED EQUAL. SEPTIC TANK PUMP TO ADVANTEX FILTER-- OSI P3005. PUMP CHAMBER PUMP TO DRAINFIELD - OSI PKP 350.
- CONTRACTOR TO NOTIFY ENGINEER DURING DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
- BOTTOMLESS SAND FILTER MEDIA: SHALL BE HOLLISTON SAND & GRAVEL 0-DAMP SAND, LESS THAN 1% PASSING THE NO. 200 SIEVE WITH AN EFFECTIVE SIZE OF .30 mm AND WITH A UNIFORMITY COEFFICIENT OF 3.0-4.0. (HOLLISTON SAND & GRAVEL: 401-766-5010) CONTRACTOR TO SUPPLY ENGINEER W/SAMPLES OF ALL MEDIA TO BE USED IN THE SAND FILTER. CONTRACTOR SHALL ALSO SUPPLY ENGINEER WITH SIEVE ANALYSIS SHOWING THAT THE FILTER MEDIA MEETS THE CRITERIA AS SHOWN ON THE PLAN.
- ALL PUMPS SHALL BE EQUIPPED WITH A HIGH WATER LEVEL VISIBLE AND AUDIBLE ALARM POWERED BY A CIRCUIT SEPARATE FROM THE PUMP POWER. THE ALARM SHALL BE LOCATED IN A NORMALLY OCCUPIED AREA OF THE FACILITY OR SHALL BE INSTALLED AS SHOWN ON THE SITE PLAN.
- ALL TANKS AND APPURTENANCES SHALL BE CONSTRUCTED SUCH THAT ALL ELEMENTS ACT AS A SINGLE WATER TIGHT UNIT & SHALL BE CONSTRUCTED ACCORDING TO ASTM STANDARD C-1227-97A OR ANY SUPERSEDING UPDATING OF THIS STANDARD. ALL RISER ADAPTORS SHALL BE CAST IN PLACE DURING TANK MANUFACTURING. ALL INLETS AND OUTLETS SHALL BE CAST WITH CAST-A-SEAL.
- THE PROPOSED SEPTIC TANK SHALL BE SEALED TO ENSURE WATER TIGHTNESS AND SHALL BE A TWO COMPARTMENT MONOLITHIC TANK WHICH CAN BE PURCHASED FROM JOLLY PRECAST, INC. @ 1-800-582-4638 OR EQUAL.
- THE CONTRACTOR SHALL PROVIDE DESIGNER WITH MATERIAL RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
- GROUNDWATER TABLE AND SUBSURFACE SOIL CONDITIONS BASED ON SOIL EVALUATION PREPARED UNDER RIDEM-APP. #2011-0352
- CONTRACTOR TO COMPACT SOIL BENEATH ALL PRESSURE AND GRAVITY LINES.
- CONTRACTOR TO COORDINATE START-UP WITH MAINTENANCE CONTRACTOR, ELECTRICIAN, AND ENGINEER PRIOR TO COMPLETION.
- GROUNDWATER TABLE FLUCTUATES ANNUALLY. NO GUARANTEE OF A DRY BASEMENT IS EXPRESSED OR IMPLIED.
- THE OWTS IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL.
- ALL APPLICANTS OBTAINING AN OWTS PERMIT FOR A RIDEM APPROVED ALTERNATIVE OR EXPERIMENTAL TECHNOLOGY REQUIRING SPECIAL OPERATION AND MAINTENANCE PROCEDURES SHALL: A) FILE A COPY OF THE INITIALLY EXECUTED CONTRACT FOR THE OWTS'S OPERATION AND MAINTENANCE, (INCLUDING ALL REQUIRED MAINTENANCE PROCEDURES AND MONITORING SCHEDULES) WITH THE LAND EVIDENCE RECORDS OF THE MUNICIPALITY IN WHICH THE OWTS IS LOCATED, AND B) SUBMIT TO THE DEPARTMENT A CERTIFIED COPY OF THE RECORDED PERMIT SETTING FORTH THE DATE OF THE RECORDATION AND THE BOOK AND PAGE WHERE THE PERMIT IS LOCATED IN THE RECORDS OF THE MUNICIPAL LAND EVIDENCE OFFICE.

GARY C. LAMOND
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 No. 7123

TITLE: OWTS DESIGN PLAN

PROJECT: A.P. 84 LOT 10
 24 BIRCH DRIVE
 EXETER, RHODE ISLAND

CLIENT: PHILLIP STECKERT

GARY C. LAMOND, PE, LLC
 194 HATCHERY ROAD
 NORTH KINGSTOWN, RI 02882

PROJ. NO: 2020022
DATE: 05/8/2020

SCALE: AS SHOWN

REVISD: 6/18/2020

1/2

24 BIRCH STREET, EXETER
5/11/2020

TEXTILE FILTER PUMP CYCLE TIME INTERVALS (RESIDENTIAL)

INPUT

COMMERCIAL OR RESIDENTIAL? residential choose

NUMBER OF BEDROOMS 2 choose

TOTAL FLOW 230 gallons/day

PRETREATMENT UNIT USED AX-20 choose

PUMP'S ACTUAL OPERATING POINT (FLOW) 30.4 gpm from pump calculations

(30 seconds is standard) PUMP ON TIME (every cycle) 25 seconds IGNORE THIS LINE. SEE

OF PRETREATMENT UNITS PER PUMP 1 units

RECIRCULATION RATIO 1.5

IS THERE A CHECK VALVE (with no weep hole)? no choose **INPUT THE SIZE**

ALTERNATING PUMPS? no choose **please ignore n**

ore if single pump) HOW MANY ALTERNATING PUMPS? 2 ignore this line

OUTPUT

ACTUAL FLOW 150 gallons/day

OF ORIFICES PER DOSE 70 orifices

(better if less than 2.4 hrs/day) RUN TIME PER PUMP 0.41 hrs/day

PUMP ON 0.48 (min/dose) 0:29 min:sec

PUMP OFF 23.84 (minutes) 23:51 min:sec

OVERWRITE TIMER ON 0.42 (min/dose) 0:25 min:sec

OVERWRITE TIMER OFF 11.92 (minutes) 11:55 min:sec

CHECK

(per day) (<300) TOTAL CYCLES PER PUMP 59.21 cycles O.K.II

INPUT THE PIPE INFORMATION ONLY IF YOU HAVE WEEPHOLE ABOVE CHECK VALVE

INPUT ONLY IF YOU HAVE WEEPHOLE ABOVE CHECK VALVE (or no check valve)

DISCHARGE ASSEMBLY DIAMETER 1 inches

TRANSPORT LINE NOMINAL DIAMETER 1 inches

TRANSPORT LINE PIPE CLASS/SCHEDULE 40 choose

DISCHARGE ASSEMBLY LENGTH 5 feet

TRANSPORT LINE LENGTH 15 feet

VOLUME TO FILL-UP 1.87 gallons

TIME NEEDED FOR PIPE FILL-UP 0.06 minutes

TOTAL TIME PER DAY FOR FILL-UP 0.73 minutes

VOLUME PER DOSE REACHING UNIT 12.7 gallons O.K.II

24 BIRCH STREET, EXETER
5/11/2020

TWO COMPARTMENT PROCESSING TANK (3-FLOAT)

INPUT

TWO COMPARTMENT TANK VOLUME CAPACITY 1500 gallons O.K.I

INVERT INTO RECIRCULATING TANK 346.9 choose

SURGE CAPACITY 225 gallons O.K.I

(inches) (24" typical) CARTRIDGE HEIGHT 24 choose

PUMP VAULT HEIGHT (6" typical) 57 inches O.K.I

STANCE FROM OUTSIDE TOP OF TANK TO FLOOR OF TANK 61 inches from ft

DISTANCE FROM INVERT IN TO OUTSIDE TOP OF TANK 10 inches from ft

OUTPUT

TANKS CAPACITY 31.25 gal/inch

SURGE VOLUME PERCENTAGE 22.5 %

Elev.	Dist. from inv.-in (feet)	from floor of tank (feet)
346.90	0.00	4.25
346.73	0.17	4.08
346.72	0.18	4.07
345.57	1.33	2.92
346.30	0.60	3.65
345.88	1.02	3.23
		60% *X
		70% *X

NORMAL LOW LIQUID LEVEL (NLLL) 346.30 O.K.I.I

LOW WATER ALARM/REUNDANT OFF 345.88

DISTANCE FROM THE NLLL TO FLOOR OF TANK (DISTANCE "X") 3.65

CHECKS

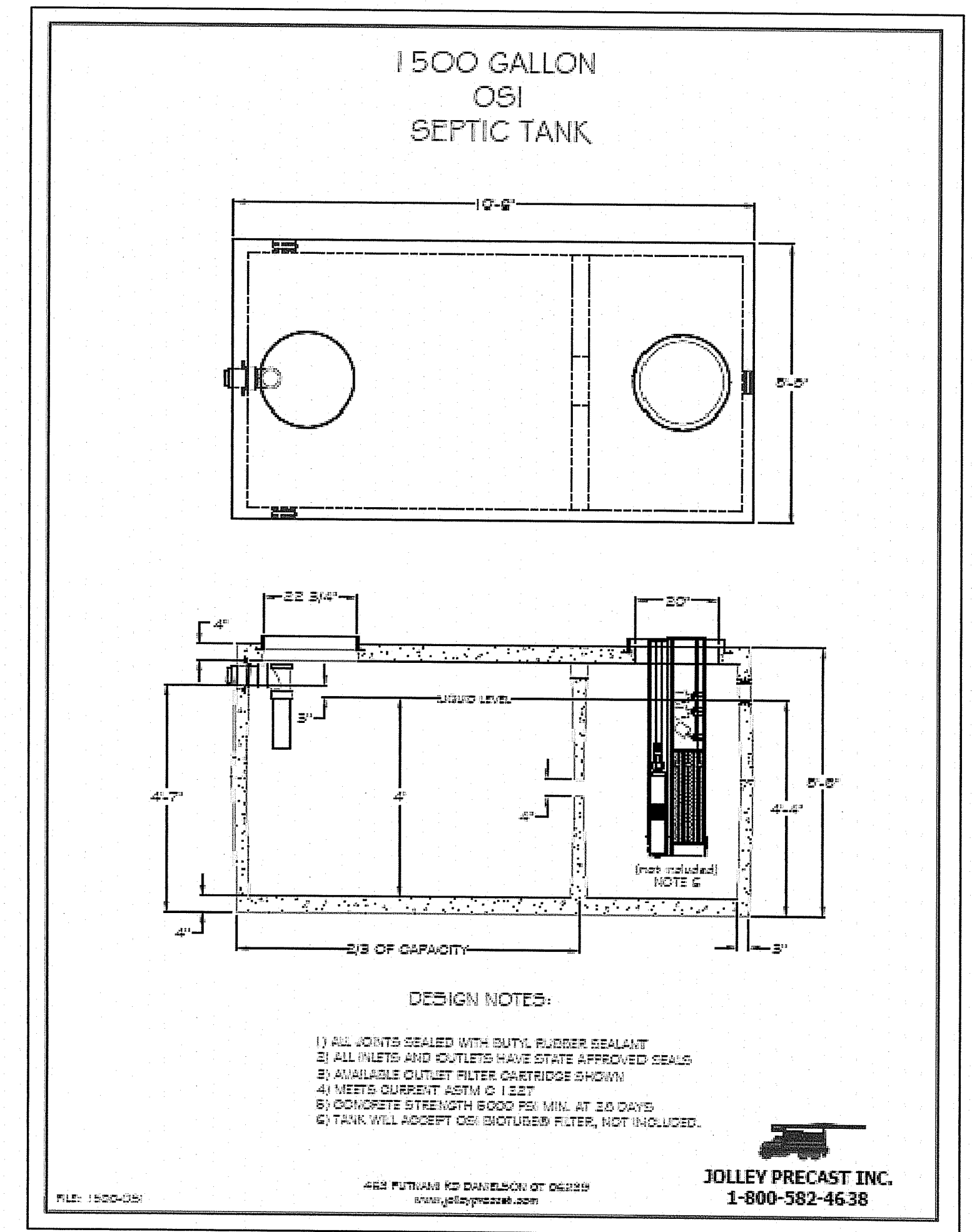
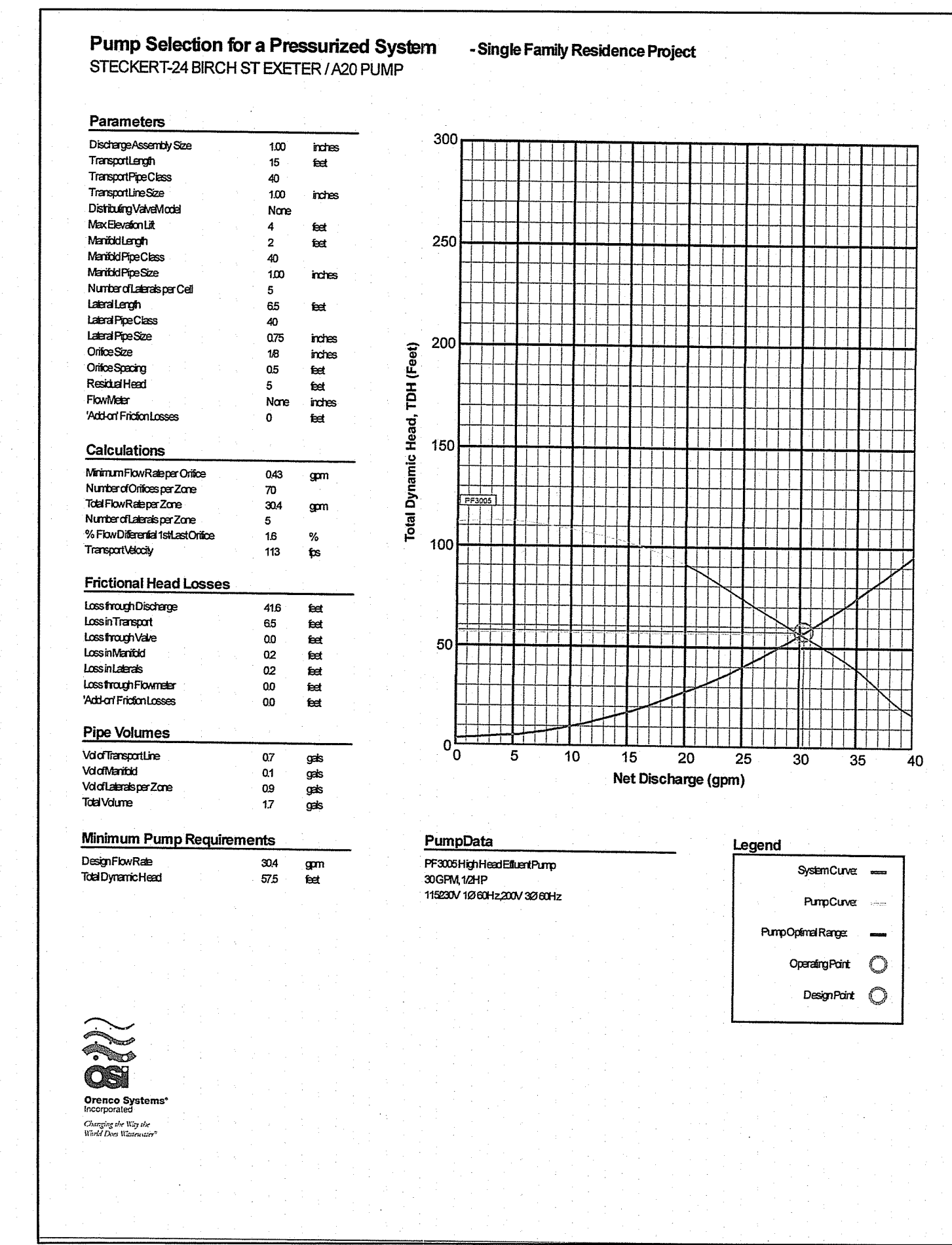
Elev.	Dist. from inv.-in (feet)
345.73	1.17

MINIMUM ALLOWED ELEVATION OF LOW WATER ALARM 345.73

MINIMUM ELEVATIONS ARE MET! O.K.I

PUMP VAULT HEIGHT CHECK PUMP VAULT FITS IN THE TANK! O.K.I

MINIMUM SURGE CAPACITY CHECK SURGE VOLUME ACCEPTABLE! O.K.I



GARY C. LAMOND, PE, LLC
PROJECT: 24 BIRCH STREET
DATE: 5/11/2020

CATEGORY 1 B.S.F. PUMP CYCLE TIME INTERVALS

INPUT

NUMBER OF BEDROOMS 2 choose

Ignore this line

OF ORIFICES PER DOSE (OR PUMP) 39 orifices from "BSF"

PUMP'S ACTUAL OPERATING POINT (FLOW) 26.9 gpm from pump

GALLONS PER ORIFICE PER DOSE (<=0.25) 0.15 gallon

OF ZONES 1 zones INPUT TH

IS THERE A CHECK VALVE (with no weep hole)? no choose

ALTERNATING PUMPS? 2 choose

PLEASE IGNORE THIS LINE

LENGTH OF B.S.F. 18.00 feet from "BSF"

WIDTH OF B.S.F. 4.5 feet from "BSF"

LATERAL NOMINAL DIAMETER 3/4 inches choose

LATERAL LINE PIPE CLASS/SCHEDULE 40 choose

(per zone) LATERAL LENGTH 18.00 feet from "BSF"

(per zone) # OF LATERALS 3 laterals from "BSF"

PUMP BASIN DIAMETER 24 inches

OUTPUT

TOTAL NUMBER OF ORIFICES IN B.S.F. 39 orifices

(better if less than 2.4 hrs/day) (per pump) RUN TIME 0.14 hrs/day

TIME THE PUMP RUNS DURING DRAWDOWN EVENT 0.26 minutes/dose

(approx.) TIME THE PUMP IS OFF AFTER A DRAWDOWN EVENT 36.36 minutes

GAL./DOSE NEEDED 7.06 gallons

PUMP BASIN GALLONS PER VERTICAL FOOT 23.50 gallons

DRAW DOWN 0.30 feet

CHECKS

TOTAL CYCLES PER PUMP (per day) 39.32 cycles O.K.II

TOTAL CYCLES PER ZONE (per day) (24<=X<=48) 39.32 cycles O.K.II

HYDRAULIC LOADING RATE (CHECK WITH YOUR DESIGN) 2.82 gal/sq.ft./day

INPUT THE PIPE INFORMATION IF EFFLUENT RETURNS TO PUMP TANK

DISCHARGE ASSEMBLY DIAMETER 1.174 inches

TRANSPORT LINE NOMINAL DIAMETER 1.174 inches

TRANSPORT LINE PIPE CLASS/SCHEDULE 40 choose

MANIFOLD NOMINAL DIAMETER 1 inches

MANIFOLD LINE PIPE CLASS/SCHEDULE 40 choose

DISCHARGE ASSEMBLY LENGTH 5 feet

TRANSPORT LINE LENGTH 10 feet

(per zone) MANIFOLD LENGTH 3 feet

VOLUME TO FILL-UP 1.23 gallons

TIME NEEDED FOR PIPE FILL-UP 0.05 minutes

TOTAL TIME PER DAY FOR FILL-UP 1.80 minutes

GARY C. LAMOND, PE, LLC
PROJECT: 24 BIRCH STREET
DATE: 5/11/2020

BOTTOMLESS SAND FILTER SYSTEM

INPUT

PRETREATMENT CATEGORY 1 choose

(most restrictive) SOIL CATEGORY WITHIN 3 FEET OF BSF'S BOTTOM 5 choose

NUMBER OF BEDROOMS 2 (enter 0 if designing by to)

Ignore this line

DESIRED BSF LENGTH 19.5 feet

DESIRED BSF WIDTH 4.5 feet O.K.II

(use same in pump calcs.) DESIRED ORIFICE SPACING 18 inches O.K.II

DESIRED LATERAL SPACING 18 inches O.K.II

(from pump calculations) TOTAL NUMBER OF ORIFICES 39 orifices

OUTPUT

(approx.) MINIMUM LATERAL LENGTH FOR PUMP CALCULATIONS 18.00 feet

(approximate) MANIFOLD LENGTH FOR PUMP CALCULATIONS 3.00 feet

CHECK FOR LATERAL LENGTH O.K.II

(from Table 1 - Guidance Document) MAXIMUM LOADING RATE 2.70 gal/sq.ft./day

REQUIRED BSF AREA 85.19 sq.ft.

BSF AREA PROVIDED 87.75 sq.ft. O.K.II

BSF WIDTH 4.50 feet

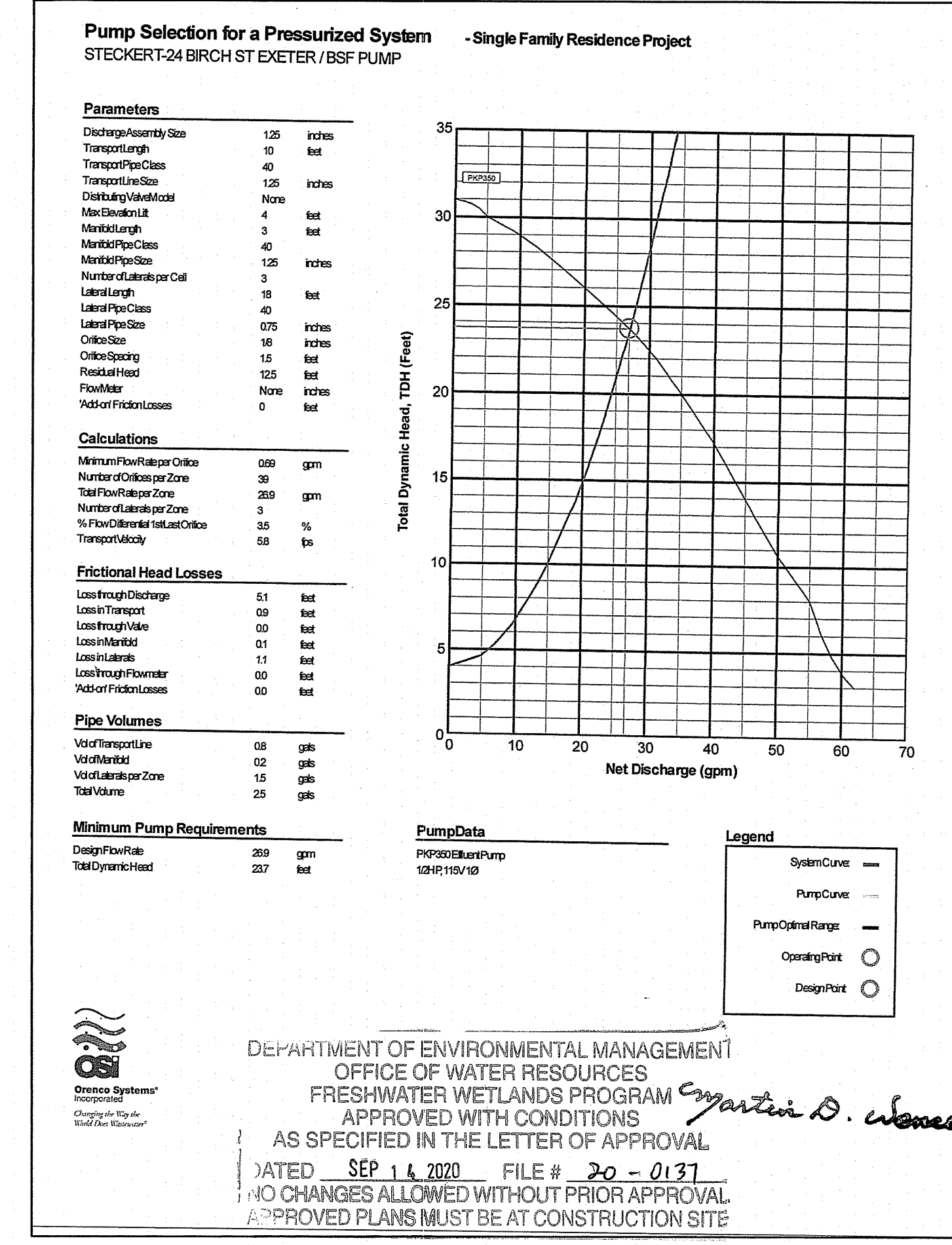
CALCULATED NUMBER OF LATERALS 3.00 laterals

DISTANCE FROM BSF EDGE TO FIRST AND LAST LATERALS 9.00 inches O.K.II

(w/out fittings) DISTANCE FROM EDGE OF BSF TO LATERAL ENDS 4.50 inches O.K.II

NUMBER OF ORIFICES PER LATERAL 13.00 orifices O.K.II

DESIGNED LOADING RATE 2.82 gal/sq.ft./day



STATE OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources
Onsite Wastewater Treatment Systems Program

Site Evaluation Form
Part A - Soil Profile Description
Application Number 2011-0352

Property Owner: Melanie Stecker
Property Location: 24 Birch St Exeter
Date of Test Hole: 4-18-20
Soil Evaluator: DRIVE DATA License Number: 41077 Shaded: Yes No Time: 10:30

TL Horizon	Depth	Horizon Boundaries	Soil Colors	Re-Dex Features	Re-Dex	Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
HTM	60	-	-	-	-	-	-	-	-	-
A	0-4	-	10YR 2/3	2.5% 7/2	mmp	Sil	SAK	very friable	5	
Bw	4-26	cl w	10YR 5/4	2.5% 5/6	mmp	Sil	SAK	very friable	5	
C	26-32	cl w	2.5% 6/2	10% 6/6	mmp	Sil	SAK	very friable	5	
2B	32+	cl w	2.5% 5/6	2.5% 7/4	mmd	SL	granular	very friable	3	

TL Horizon	Depth	Horizon Boundaries	Soil Colors	Re-Dex Features	Re-Dex	Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
HTM	110	-	-	-	-	-	-	-	-	-
A	0-6	-	10YR 2/3	2.5% 7/2	mmp	Sil	SAK	very friable	5	
Bw	6-24	cl w	10YR 5/4	2.5% 5/6	mmp	Sil	SAK	very friable	5	
C	24-36	cl w	2.5% 6/2	10% 6/6	mmp	Sil	SAK	very friable	5	
2B	36+	cl w	2.5% 5/6	2.5% 7/4	mmd	SL	granular	very friable	3	

TH 1: Soil Class G/D Total Depth 4' Impermeable/Limiting Layer Depth 14" GW Sump Depth 14" SHWT 0 (g)

TH 2: Soil Class G/D Total Depth 4' Impermeable/Limiting Layer Depth 14" GW Sump Depth 14" SHWT 0 (g)

Comments:

GARY C. LAMOND
REGISTERED PROFESSIONAL ENGINEER CIVIL
No. 7123

TITLE: OWTS DESIGN PLAN

PROJECT: A.P. 84 LOT 10
24 BIRCH DRIVE
EXETER, RHODE ISLAND

CLIENT: PHILLIP STECKER

GARY C. LAMOND, PE, LLC
194 HATCHERY ROAD
NORTH KINGSTOWN, RI 02852

PROJ. NO: 2020022
DATE: 05/8/2020
2/2
REVISED: 6/18/2020

SCALE: AS SHOWN