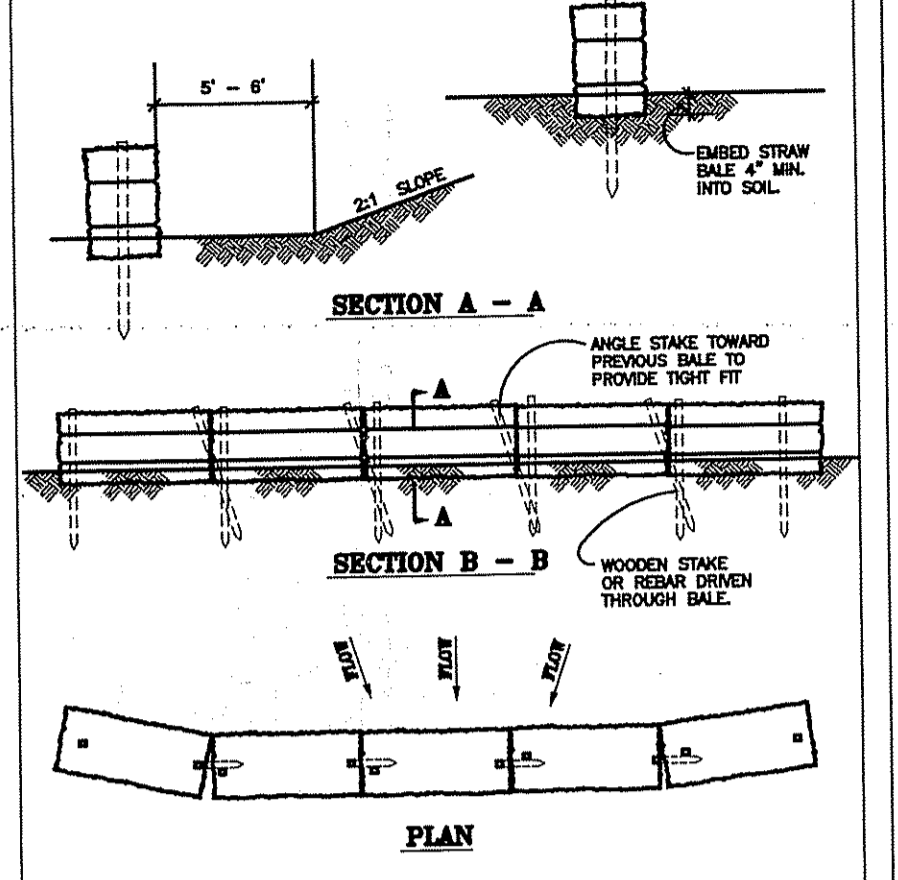


SILT FENCE

NOTE:
 1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONSTITUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE, CONTIGUOUS TO MAXIMIZE PONDING EFFICIENCY.



STRAW BALE DIKE

NOTE:
 1. THE STRAW BALES SHALL BE PLACED ON SLOPE CONTIGUOUS.
 2. BALES TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ADJUTING. USE STRAW HOOKS OR FELT PAINT TO FILL GAPS BETWEEN THE BALES AND TAMP THE BACKFILL TO PREVENT DISOON OF FLOW AROUND BALES.

SAND FILTER DESIGN DATA:

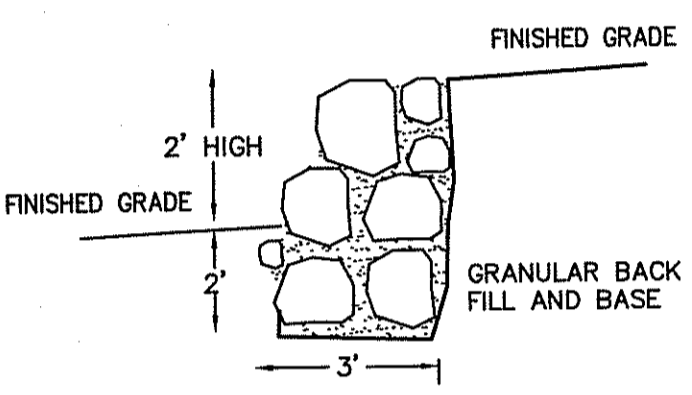
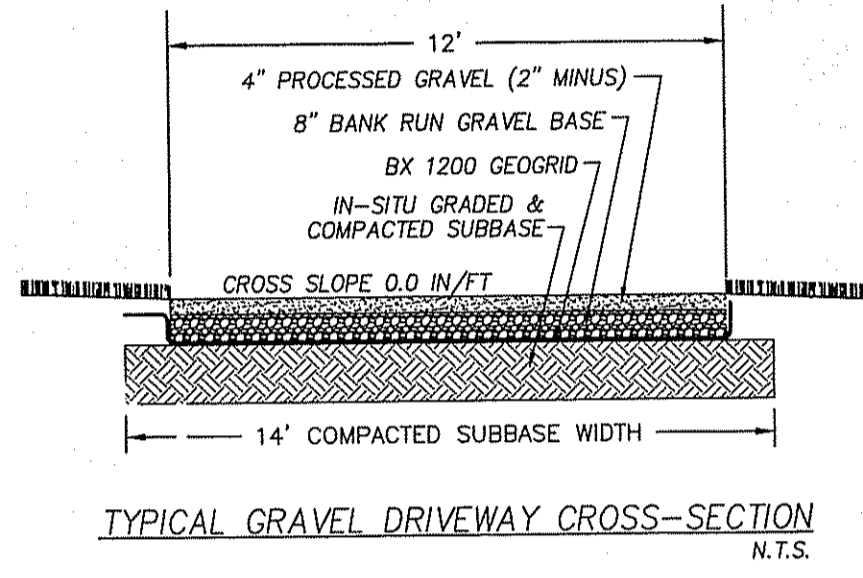
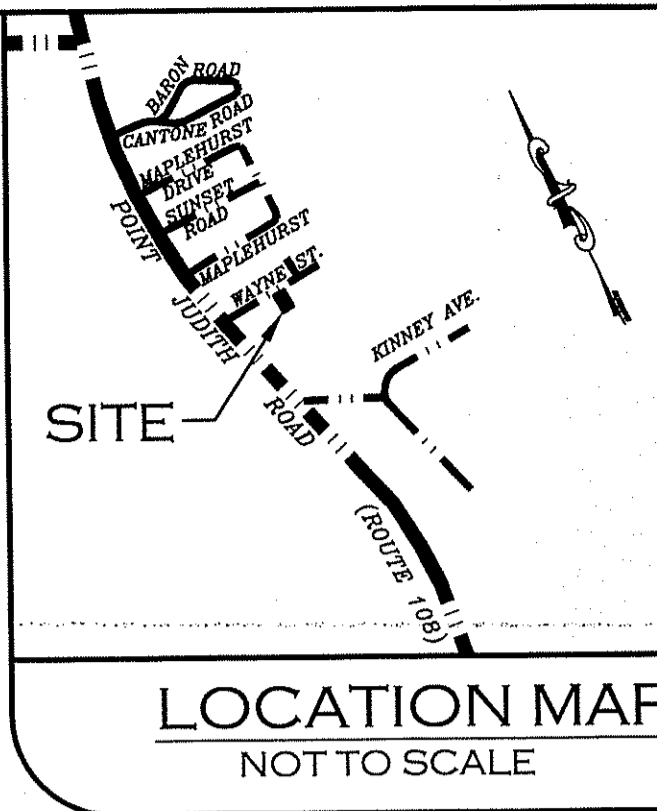
20" WATER TABLE
 HIGH POINT OF BSF EL. 93.50
 20" -1.67
 WATER TABLE ELEV. 91.83
 +3.00
 TOP OF SAND ELEV. 94.83
 BOTTOM OF SAND ELEV. 92.83

CATEGORY 7 SOIL WITHIN 18" OF BSF BOTTOM
 2 BEDROOMS (2 X 150) 300-sf/2.8 gal/sf = 107 S.F. REQUIRED
 10' X 15' BOTTOMLESS SAND FILTER = 150 S.F. PROVIDED
 (2 gal/sf Design Data)

SOIL DATA:

TH 14-A 24" W.T.
 TH 14-B 20" W.T.
 TH 15-A 21" W.T.
 TH 15-B 20" W.T.

NOTE: NO RECORDS OF THE RESULTS COULD BE FOUND REGARDING THE OLDER TESTHOLES.



CONSTRUCTION SPECIFICATIONS:

GENERAL NOTES:

- 1.) ALL DESIGN, CONSTRUCTION, AND MAINTENANCE TO BE IN CONFORMANCE WITH THE "RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEMS, STATE OF R.I., DEPARTMENT OF ENVIRONMENTAL MANAGEMENT" AS AMEND.
- 2.) PROPOSED TOP OF FOUNDATION ELEVATION IS DIRECTLY RELATED TO INSTALLATION AND FUNCTIONING OF DISPOSAL SYSTEM AND SHOULD NOT CHANGED WITHOUT FIRST CONSULTING DESIGNER.
- 3.) EXACT PROPERTY LINE SHOULD BE ESTABLISHED PRIOR TO INSTALLATION OF SYSTEM.
- 4.) ALL PIPING MUST BE SDR 35 PVC UNLESS NOTED OTHERWISE.
- 5.) NO SUBSURFACE DRAINAGE MAY BE LOCATED WITHIN 25' OF SYSTEM.
- 6.) THERE IS NO WATERCOURSE OR WETLAND AREA WITHIN 200' OF SYSTEM UNLESS SHOWN ON PLAN.
- 7.) CLEAR ALL TREES AND STUMPS WITHIN 10' OF SYSTEM.
- 8.) THERE ARE NO EXISTING OR PROPOSED DRAINS WITHIN 200' OF SYSTEM UNLESS SHOWN ON PLAN.

SEPTIC TANK

- 1.) THE BUILDING SEWER FROM FOUNDATION TO SEPTIC TANK SHALL BE LAID WITH NO ANGLES GREATER THAN 45°.
- 2.) MAINTAIN INVERT ELEVATION FOR 10' MINIMUM AROUND SEPTIC TANK.
- 3.) BUILDING SEWER SHALL BE 4" SCHEDULE 40 PVC OR EQUAL.

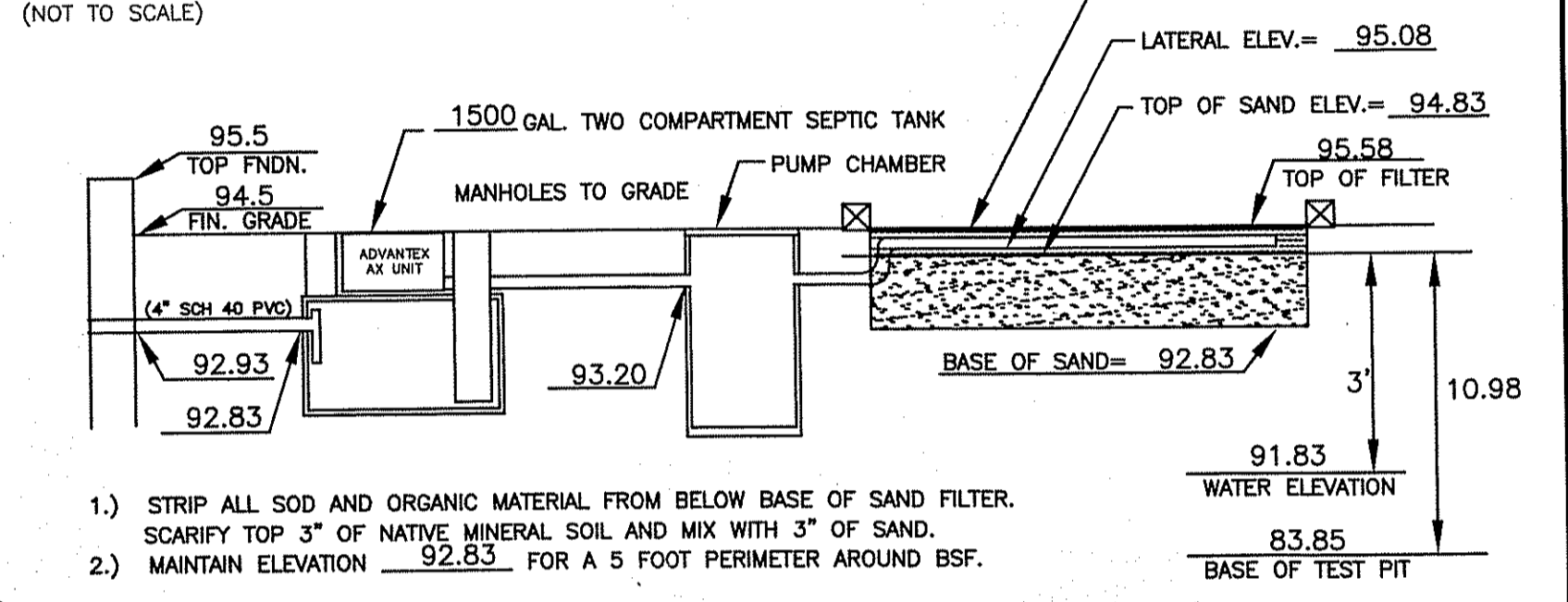
PRIVATE WATER SUPPLY:

- 1.) THERE ARE NO EXISTING OR PROPOSED WELLS WITHIN 200' OF SYSTEM OTHER THAN SPECIFIED ON PLAN.
- 2.) THERE ARE NO EXISTING OR PROPOSED SEEPAGE SYSTEMS WITHIN 100' OF PROPOSED WELL.
- 3.) PROPOSED WELL TO BE INSTALLED 100' MINIMUM FROM ANY SEEPAGE SYSTEM.
- 4.) THERE ARE NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF PROPOSED SYSTEM.
- 5.) PROPOSED WELL MUST BE LOCATED 75' MINIMUM FROM SEPTIC TANK AND DISTRIBUTION BOX.
- 6.) PROPOSED WELL MUST BE LOCATED 50' MINIMUM FROM ANY PUBLIC ROADWAY.

PUBLIC WATER SERVICE:

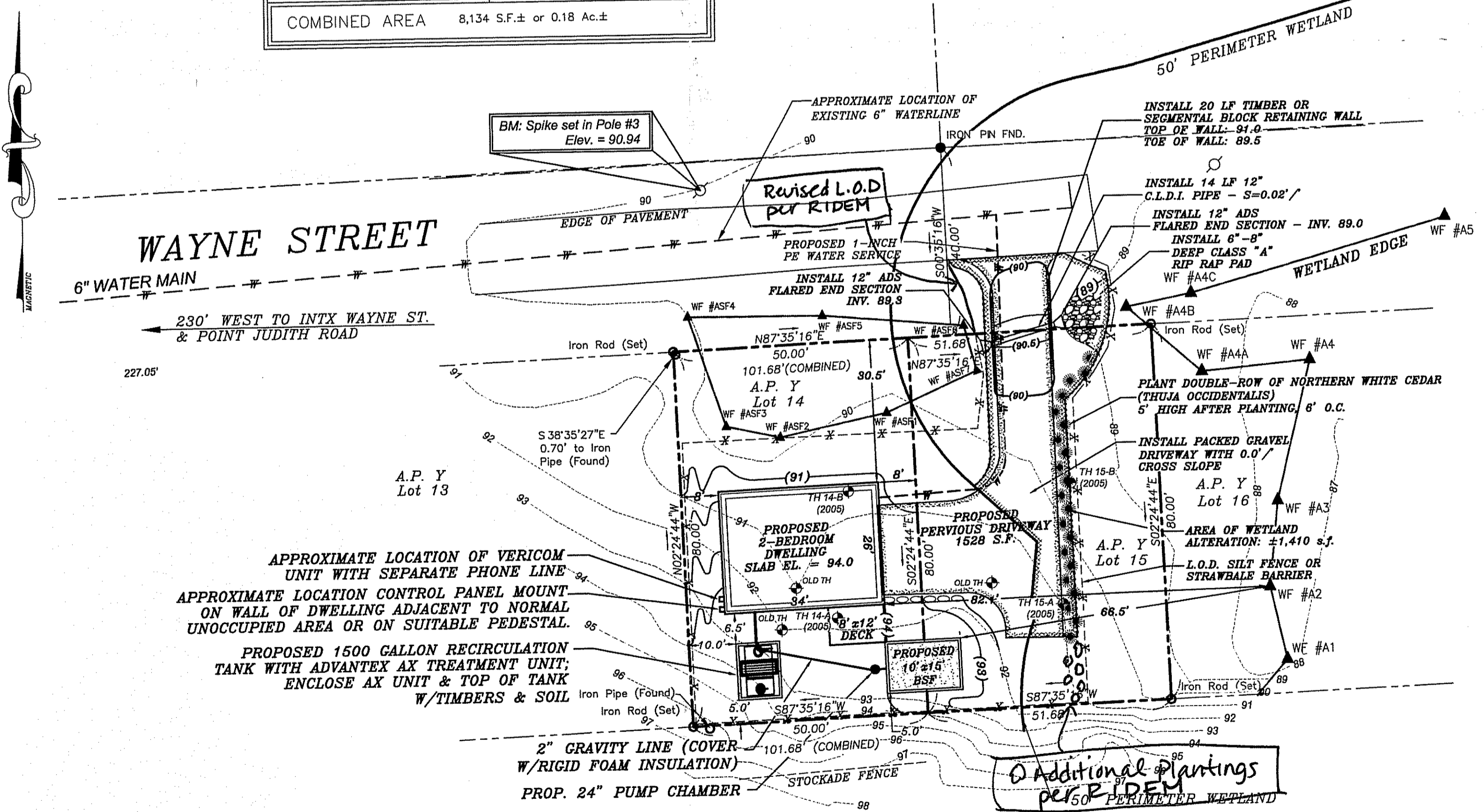
- 1.) MAINTAIN 25' MINIMUM FROM WATER SERVICE TO SEEPAGE SYSTEM.

TYPICAL SYSTEM PROFILE

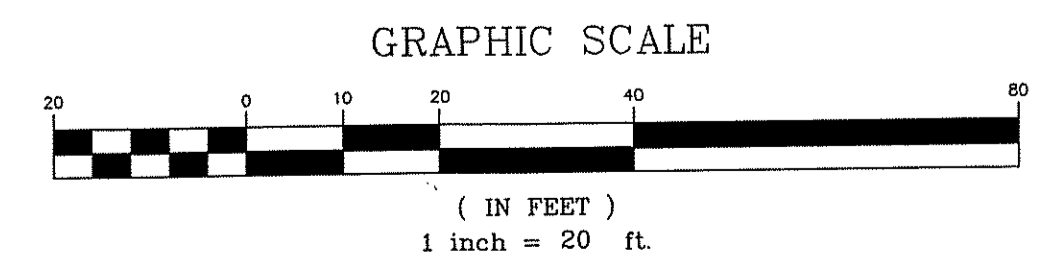


- 1.) STRIP ALL SOIL AND ORGANIC MATERIAL FROM BELOW BASE OF SAND FILTER. SCARIFY TOP 3" OF NATIVE MINERAL SOIL AND MIX WITH 3" OF SAND.
- 2.) MAINTAIN ELEVATION 92.83 FOR A 5 FOOT PERIMETER AROUND BSF.

PARCEL DATA		PARCEL DATA	
A.P. Y, Lot 14	N/Y	A.P. Y, Lot 15	N/Y
J.C.P.I., Inc.		C.R.T., Inc.	
Deed Bk.629, Page 163		Deed Bk.629, Page 165	
Wayne Street		Wayne Street	
Narragansett, Rhode Island		Narragansett, Rhode Island	
Lot Area:		Lot Area:	
4,000 S.F.± or		4,134 S.F.± or	
0.09 Ac.±		0.09 Ac.±	
COMBINED AREA 8,134 S.F.± or 0.18 Ac.±			



Certification:
 This Survey and Plan conforms to the following class standard as adopted by the Rhode Island Board of Registration for Professional Land Surveyors.
 Boundary Survey - Class I
 Topographic Survey - Class III
 By: *Michael A. Fontaine* 10/26/08
 Professional Land Surveyor Reg. No. Date

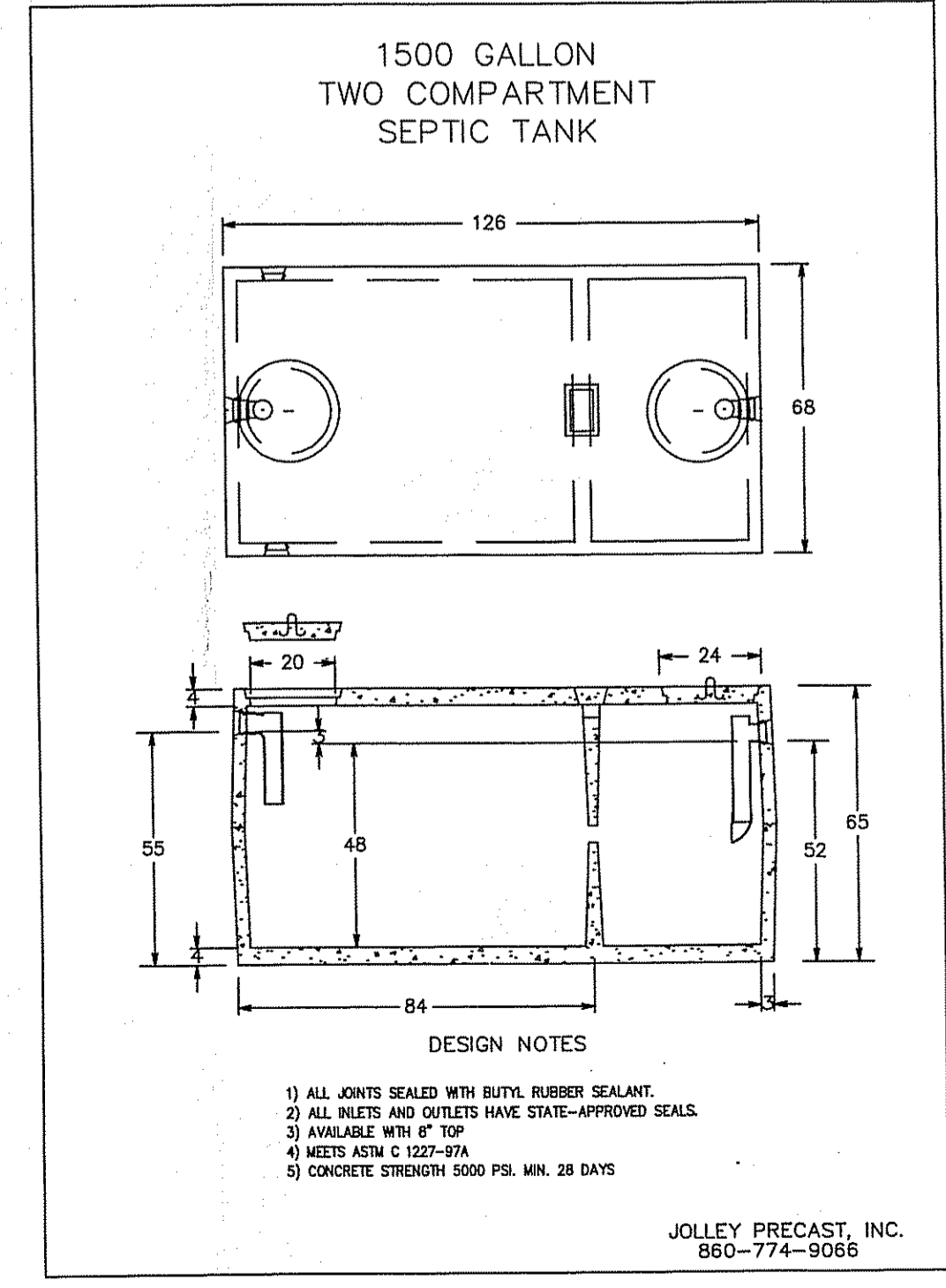


CONSTRUCTION NOTES:

1. APPLICANT IS REQUIRED TO NOTIFY DESIGNER OF INTENTION TO START CONSTRUCTION AT LEAST 10 DAYS PRIOR TO START OF SITE WORK. CONTRACTOR'S AND INSTALLER'S TELEPHONE NUMBERS, AND NAME AND INSTALLER'S LICENSE NUMBER ARE TO BE PROVIDED TO THE DESIGNER AT THIS TIME.
2. THE INSTALLER SHALL PROVIDE THE FOLLOWING:
 -24 HOUR NOTICE OF START OF CONSTRUCTION.
 -INSPECTION OF BOTTOM OF BED OR COVER REQUIRING RIDEM REVIEW IS TO BE CALLED INTO DESIGNER BEFORE NOON ON THE DAY PRIOR TO THE REQUIRED INSPECTION.
 -ALL RIDEM INSPECTION SHEETS ARE TO BE FAXED TO DESIGNER OFFICE WITHIN 24 HOURS OF RIDEM INSPECTION.
3. SITE LAYOUT AND REQUIRED INSPECTIONS TO BE MADE BY DESIGNER FOR THE FOLLOWING WORK ITEMS.
 -FOUNDATION AND ISDS LOCATION AND ELEVATION.
 -INSPECTION OF ISDS BOTTOM OF LEACH AREA.
 -INSPECTION OF ISDS COMPONENTS & FILL PERIMETER.
 -FINAL COVER AND WELL/ WATER SERVICE LOCATION INSPECTION.
4. THE APPLICANT SHALL BE RESPONSIBLE FOR REVIEWING ANY PROPOSED CHANGES TO THE INSTALLATION WITH THE DESIGNER PRIOR TO COMPLETING WORK. ANY CHANGES IN THE DESIGN DURING INSTALLATION WILL BE THE RESPONSIBILITY OF THE APPLICANT AND MAY INCLUDE ANY OF THE FOLLOWING.
 -NEW APPLICATION FOR REDESIGN OF ISDS
 -AS-BUILT LOCATION PLANS
 -COMMUNICATION AND COORDINATION WITH RIDEM STAFF.
 -REINSTALLATION OF SYSTEM TO MEET RIDEM CRITERIA.
5. THE INSTALLER/APPLICANT SHALL PROVIDE THE DESIGNER WITH MATERIALS SHEETS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
6. THE APPLICANT SHALL FURNISH THE ORIGINAL APPLICATION (PINK COPY) TO THE INSTALLER PRIOR TO START OF CONSTRUCTION. APPLICATION TO REMAIN ON SITE DURING CONSTRUCTION, AND BE RETURNED TO OWNER FOLLOWING INSTALLATION.

GENERAL NOTES:

1. DEPICTED TOPOGRAPHY AND LOCATION FROM A FIELD SURVEY BY ATLAS LAND SURVEYORS (DATUM IS ASSUMED)
2. DEPICTED BOUNDARY INFORMATION FROM A FIELD SURVEY BY CARRIGAN ENGINEERING, INC. BOUNDARY INFORMATION COMPLIES WITH A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL REGISTRATION FOR LAND SURVEYORS.
3. CONTRACTOR RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF APPROPRIATE SEDIMENTATION AND EROSION CONTROL DEVICES TO PROHIBIT OFF SITE TRANSPORT OF SEDIMENT.
4. PRE-TREATMENT DEVICE REQUIRES ANNUAL MAINTENANCE CONTRACT AND PHONE SERVICE TO AX POD.
5. WETLAND EDGE FLAGGED BY NATURAL RESOURCE SERVICES, INC.

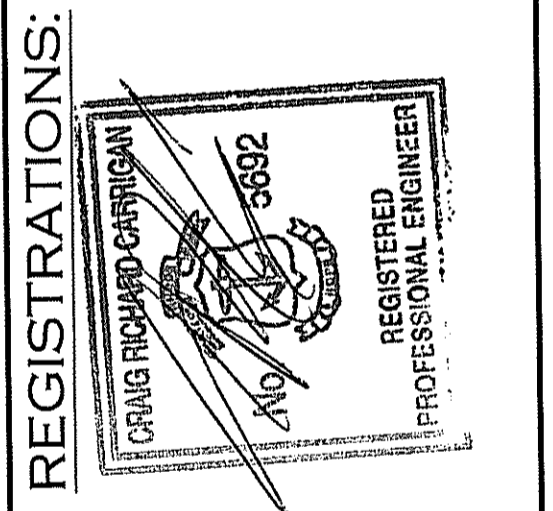


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED Apr 2 2008 FILE # 06-0218
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

PROPOSED ISDS PLAN
 ASSESSOR'S PLATY LOT 14 & 15
 WAYNE STREET
 NARRAGANSETT, RHODE ISLAND
 PREPARED FOR: C.R.T. INC.

REVISIONS:

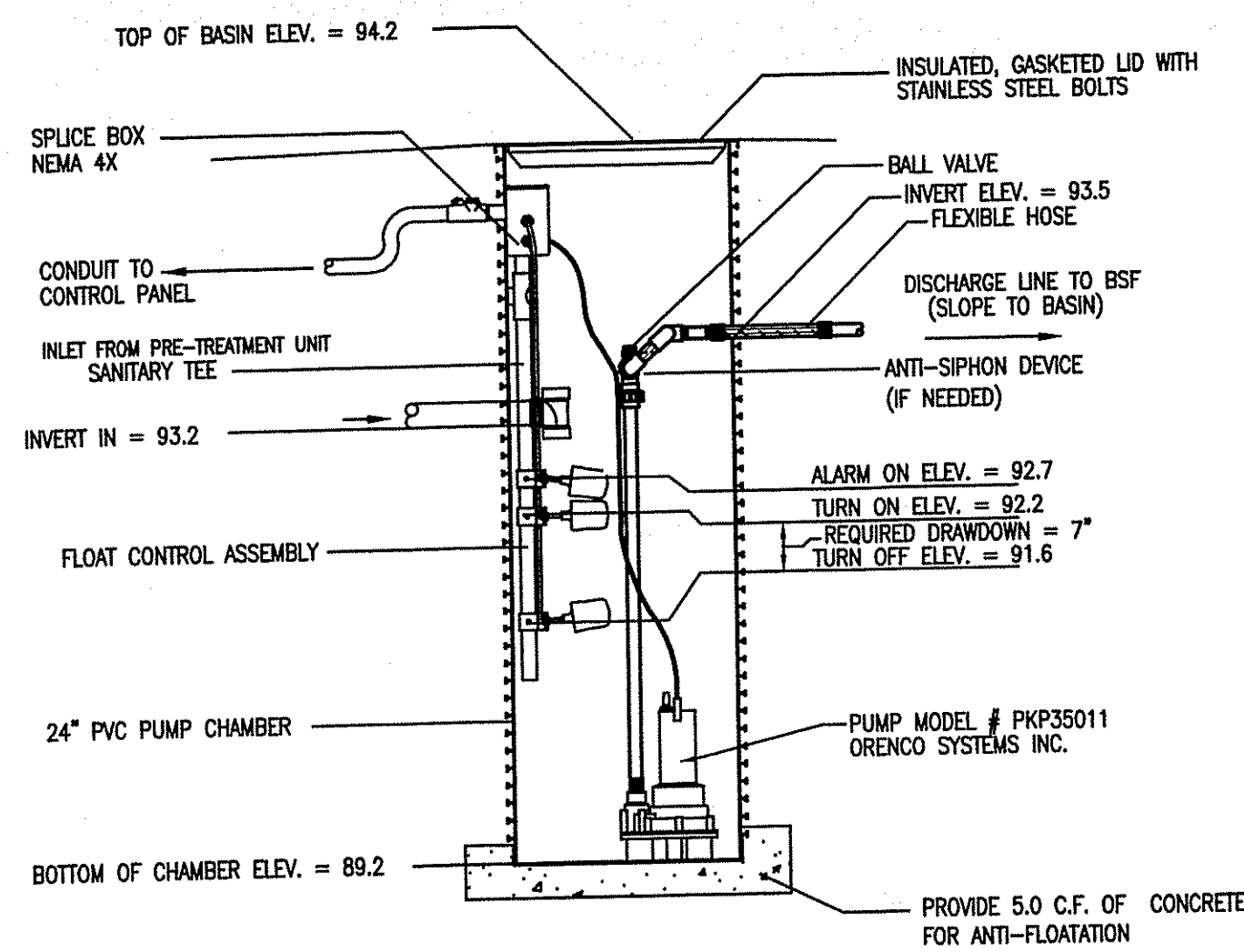
NO.	DATE	DESCRIPTION	BY
6	3/17/08	RIDEM COMMENTS	MZ
5	8/22/07	RIDEM COMMENTS	MZ
4	5/1/07	NRS COMMENTS	MZ
3	3/14/07	DRIVEWAY MODIFICATIONS	DEL
2	9/29/06	LOT 15	DEL
1	3/08/06	WETLAND EDGE	CRS



CARRIGAN ENGINEERING, INC.
 CIVIL AND ENVIRONMENTAL ENGINEERING
 140 POINT JUDITH ROAD
 UNIT #3 MARINER SQUARE
 NARRAGANSETT, RI 02882
 PHONE: (401) 789-6865
 FAX: (401) 789-2053

SCALE: AS NOTED DATE: 10/25/05 SHEET 1 OF 2

JOB NO. 050623

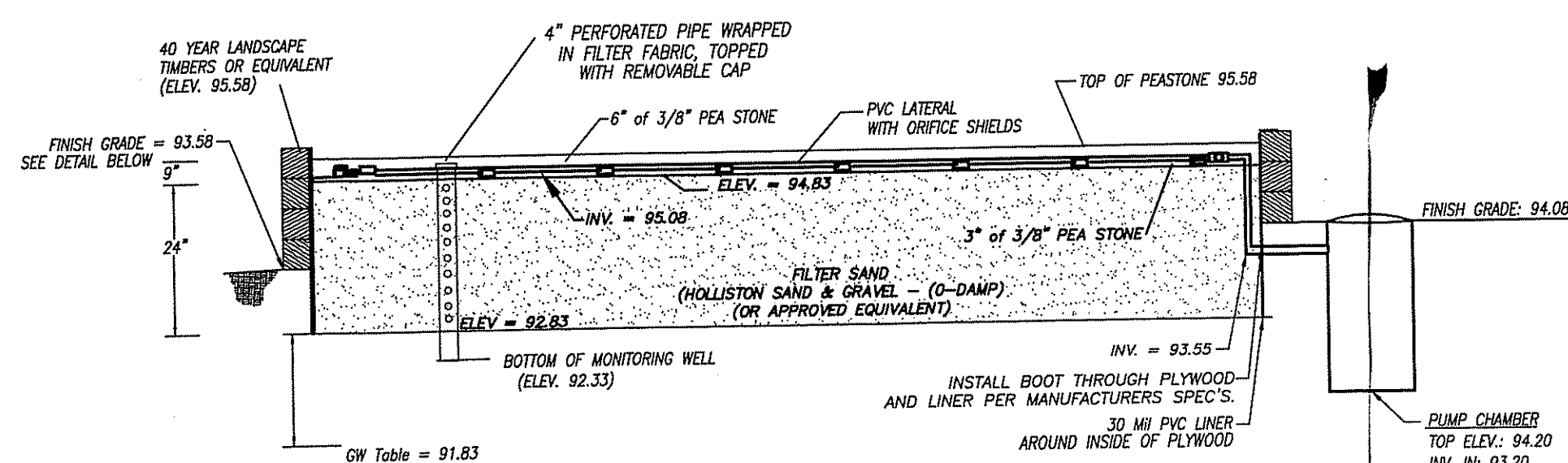


SIMPLEX PUMP STATION DETAIL
NOT TO SCALE

CONTROL PANEL NOTES:

- THE CONTROL PANEL SHALL HAVE AUDIBLE AND VISUAL ALARMS ON THE PUMPS CONTROLLING THE DOSING TO BOTH THE ADVANTEX AND THE B.S.F.
- THE AUDIBLE ALARM SHALL HAVE A PUSH TO SILENCE BUTTON ON THE OUTSIDE OF THE UNIT.
- THE PUSH TO SILENCE BUTTON SHALL ALSO BE THE VISUAL ALARM AND SHALL NOT BE TURNED OFF BY PUSHING ON IT BUT RATHER BY SERVICING THE SEPTIC SYSTEM AND CORRECTING THE ANOMALY.
- THE ALARM SHALL BE SET TO RESET ITSELF IN THE EVENT OF A TEMPORARY HIGH WATER SITUATION.

BOTTOMLESS SAND FILTER PROFILE



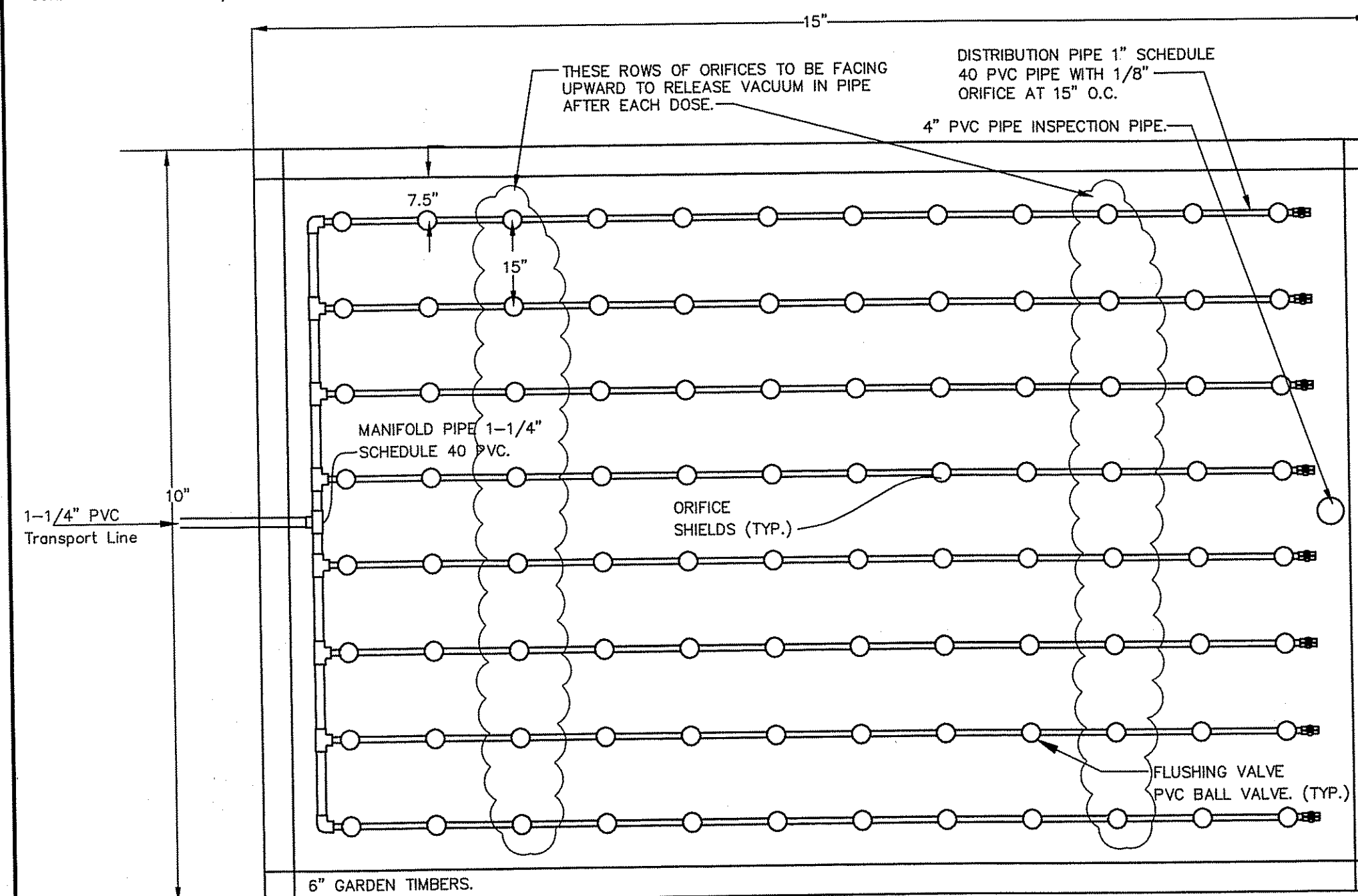
SIDE VIEW - BOTTOMLESS SAND FILTER/ADVANTEX UNIT
NOT TO SCALE

CONSTRUCTION NOTES:

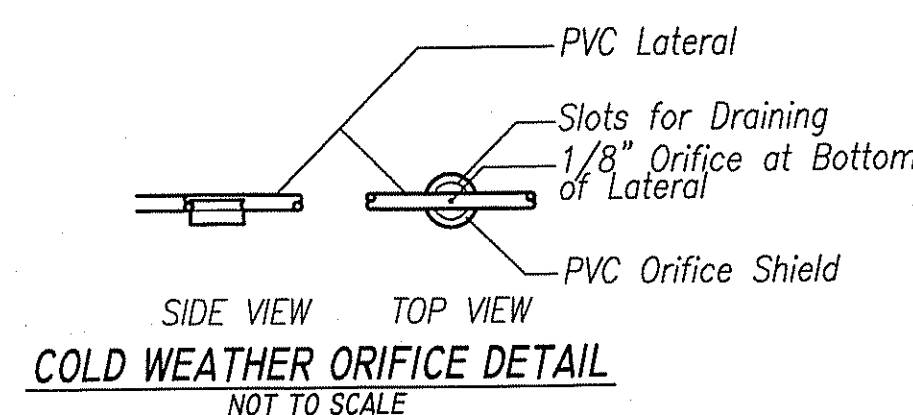
1. MIX 3" OF SAND INTO TOP 3" OF NATIVE MINERAL SOIL.
2. SAND IS TO BE PLACED IN MAXIMUM 8" LIFTS BEFORE COMPACTION. WET SAND SLIGHTLY TO PROMOTE EVEN SETTLEMENT.
3. INSTALLER TO WALK PERIMETER OF FILTER TO INSURE A TIGHT EDGE AND NO VOIDS. CARE SHOULD BE TAKEN TO AVOID DAMAGE TO LINER.
4. SAND FILTER MEDIA TO CONFORM TO FIGURE 9 OF THE 'GUIDELINES FOR THE DESIGN AND USE OF BOTTOMLESS SAND FILTERS'. PUBLISHED BY THE RIDEM NOVEMBER 2001.

10' X 15' BOTTOMLESS SAND FILTER

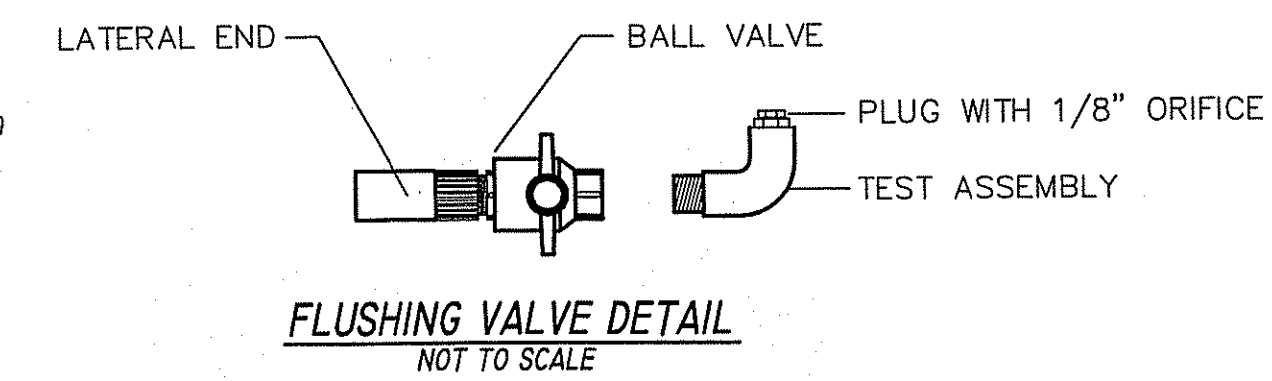
CONFIGURED FOR 2.0 GPD/S.F.



SCALE: NONE
USE PRESSURE TREATED LUMBER ONLY IF NECESSARY.

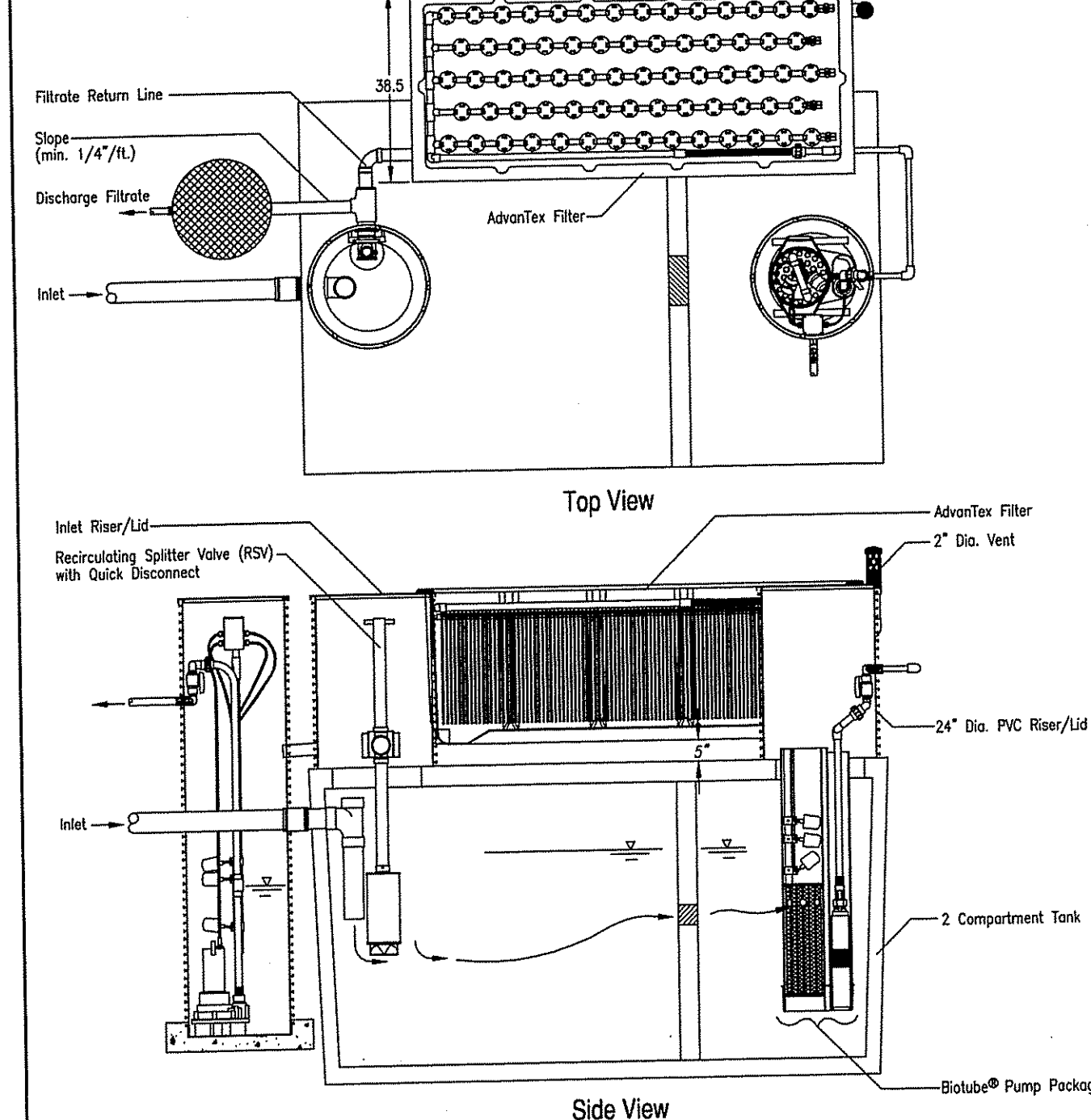


COLD WEATHER ORIFICE DETAIL
NOT TO SCALE



FLUSHING VALVE DETAIL
NOT TO SCALE

AdvanTex™ Treatment System
AX 20 Series - Mode 3b



PICTORIAL REPRESENTATION.
REFER TO SITE PLAN FOR ARRANGEMENT AND DETAILS FOR SPECIFICS.

Title: AdvanTex™ - AX 20 Mode 3B	Scale: 1" = 2'-0"
Drawn By: Chris Johnson	Date: 1/25/04
Developed By: Environmental	Revised: 2.0
Approved By: [Signature]	Job Approval: [Signature]
<small>U.S. Patent 2,431,881 and 2,486,561 © 2001 Oranco Systems, Inc.</small>	

ELEVATIONS:

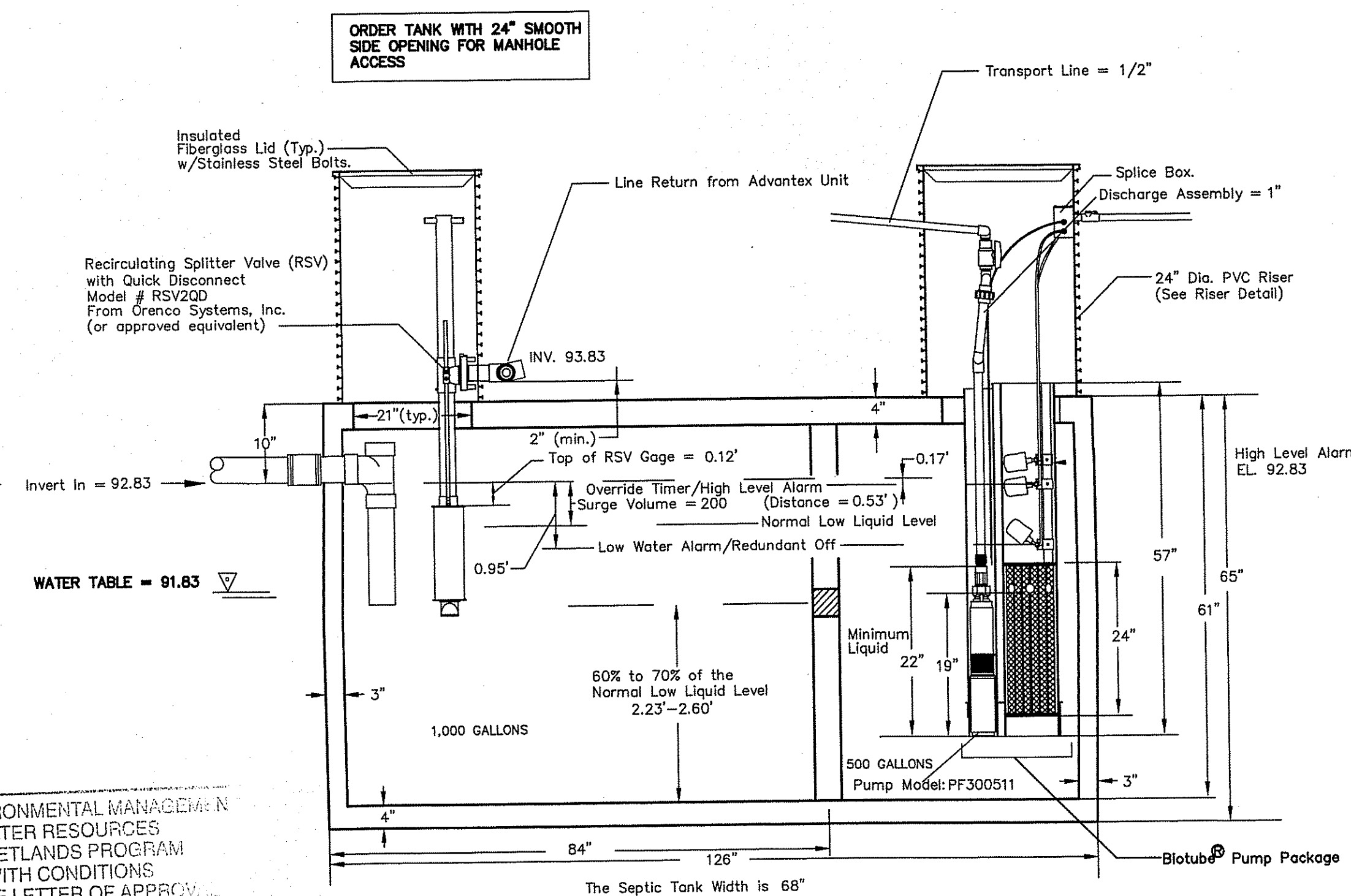
TOP OF SEPTIC TANK = 93.66
BASE OF SEPTIC TANK = 88.24

TOP OF AX UNIT = 96.66
BASE OF AX UNIT = 94.08

SEPTIC TANK REQUIREMENTS:

1. SEPTIC TANK TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-1227-97A
2. ALL PIPE GASKETS TO BE CAST-IN-PLACE. SEALS TO BE CONSTRUCTED WITH STAINLESS STEEL CLAMP FOR MECHANICAL BOND TO PIPE. (PRESS SEAL CAST-IN-PLACE OR EQUIVALENT.)
3. ALL TANK SEAMS ARE TO BE SEALED WITH BOTH BUTYL MASTIC BETWEEN SEAM AND 8-INCH WIDE BUTYL STRIP OVER SEAM.
4. TANK TO BE CAST WITH PLASTIC RISER ADAPTER SET INTO TOP OPENINGS. PVC RISERS TO BE EPOXYED TO TANK IN FIELD. NO CENTER OPENING TO BE CAST IN TANK.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Nancy L. Freeman



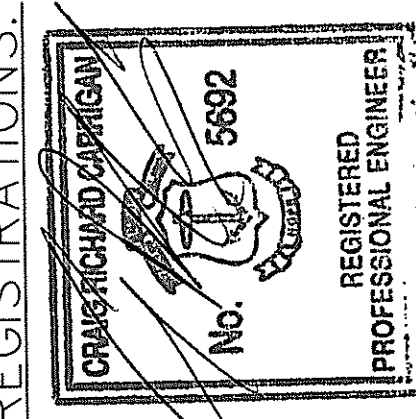
1,500 GALLON SEPTIC/RECIRCULATING TANK DETAIL.

TANK SPECIFICATION TAKEN FROM JOLLEY PRECAST, INC.
DANIELSON, CONNECTICUT 1-800-582-4638
OR APPROVED EQUIVALENT.
CROSS SECTION
NO SCALE

REVISIONS:

NO.	DATE	DESCRIPTION	BY
1	3/17/08	RIDEM COMMENTS	MZ

REGISTRATIONS:



CARRIGAN ENGINEERING, INC.
CIVIL AND ENVIRONMENTAL ENGINEERING
140 POINT JUDITH ROAD
UNIT #3 MARINER SQUARE
NARRAGANSETT, RI 02882
PHONE: (401) 789-6865
FAX: (401) 789-2053

ISDS DETAILS

ASSESSOR'S PLAT Y LOT 14 & 15
WAYNE STREET
NARRAGANSETT, RHODE ISLAND

PREPARED FOR: C.R.T. INC.

SCALE: AS NOTED DATE: 10/25/05 SHEET 2 OF 2

JOB NO. 050623