

LEGEND & SYMBOLS

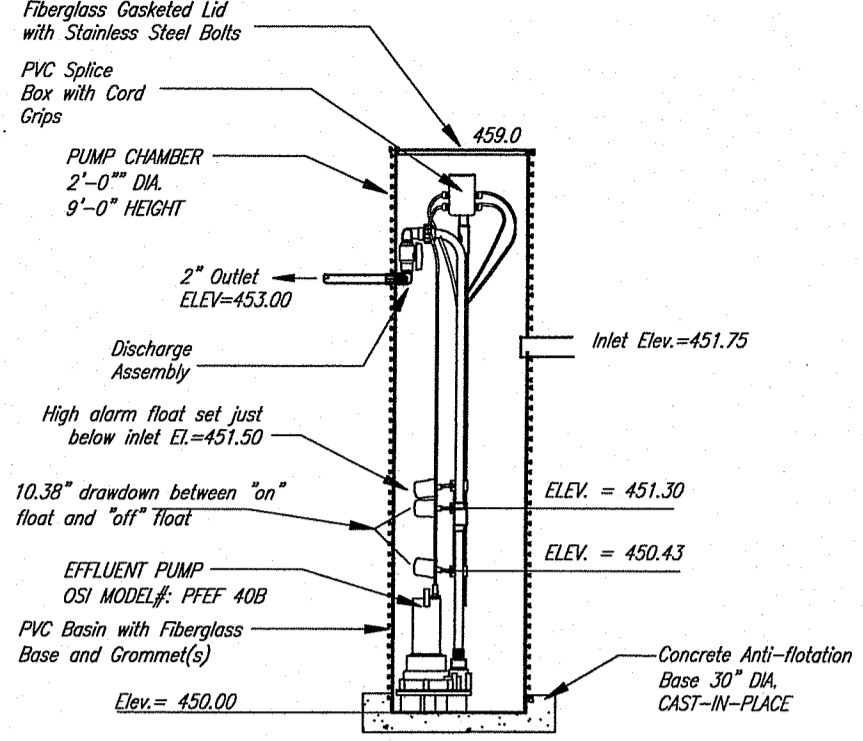
- 400 --- EXISTING CONTOUR
- TEST HOLE
- 400 --- PROPOSED CONTOUR
- T.FND TOP OF FOUNDATION
- T.SLAB TOP OF SLAB ELEV.
- PERIMETER EROSION CONTROL

BASE FLOOD NOTE:

THE SUBJECT PARCEL LIES WITHIN A FLOOD ZONE X AREA AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 44007C0140G, EFFECTIVE DATE MARCH 2, 2009.

PUMP DESIGN

DOSE VOLUME = 16 / DAY
 230 GPD / 16 DOSES = 14.4 GAL
 64 LF OF 1.5" TRANSPORT VOLUME = 5.93 GAL
 PUMP DRAW DOWN
 20.33/7.48 = 3.14(R SQ) X D
 D = 0.87' = 10.38"
 PUMP CYCLE TIME
 20.33/40 GPM = 0.5 MIN. = 30 SEC

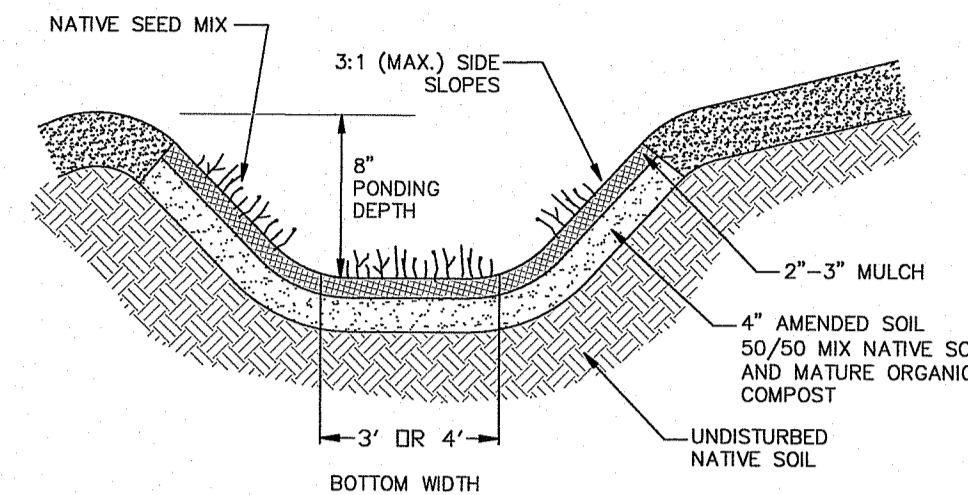


24" DIAMETER PUMP CHAMBER
NOT TO SCALE

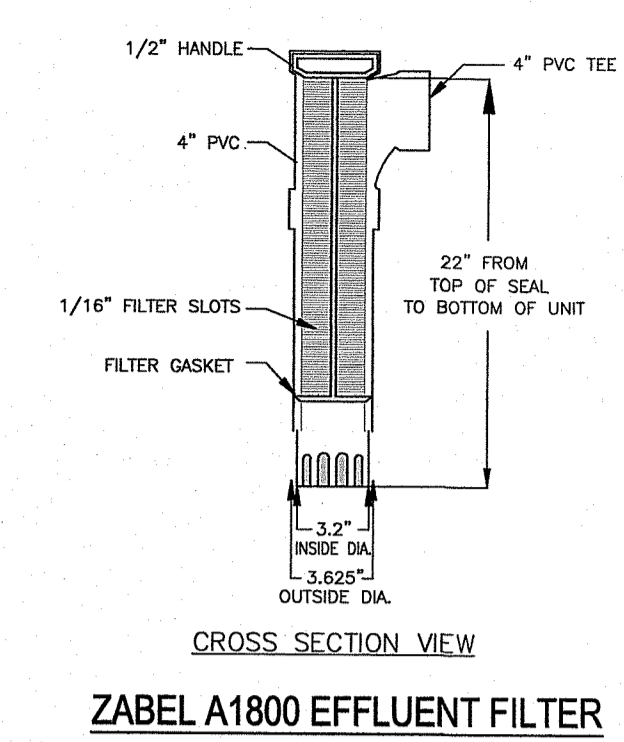
VEGETATED SWALE SIZING:

IMPERVIOUS AREA SIZE PER RIDEM GUIDANCE MANUAL (SILTY SOILS)
 714 S.F. ROOFTOP 114 S.F. REQUIRED (BOTTOM AREA) FOR 8" PONDING DEPTH

SIZING OPTIONS FOR SWALE #1 & #2
 (#1) 8'-0" BOTTOM WIDTH, LENGTH = 10'-0"



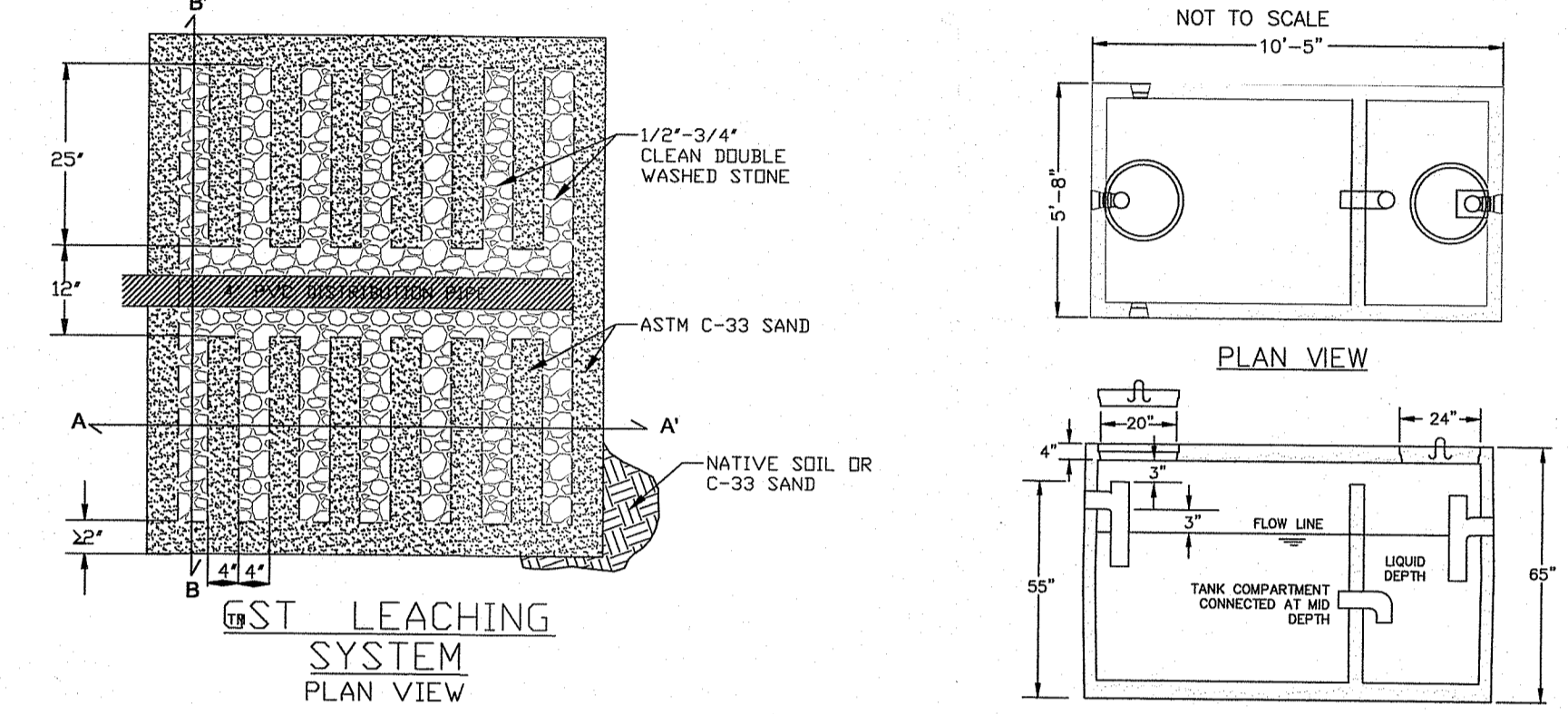
VEGETATED SWALE
NOT TO SCALE



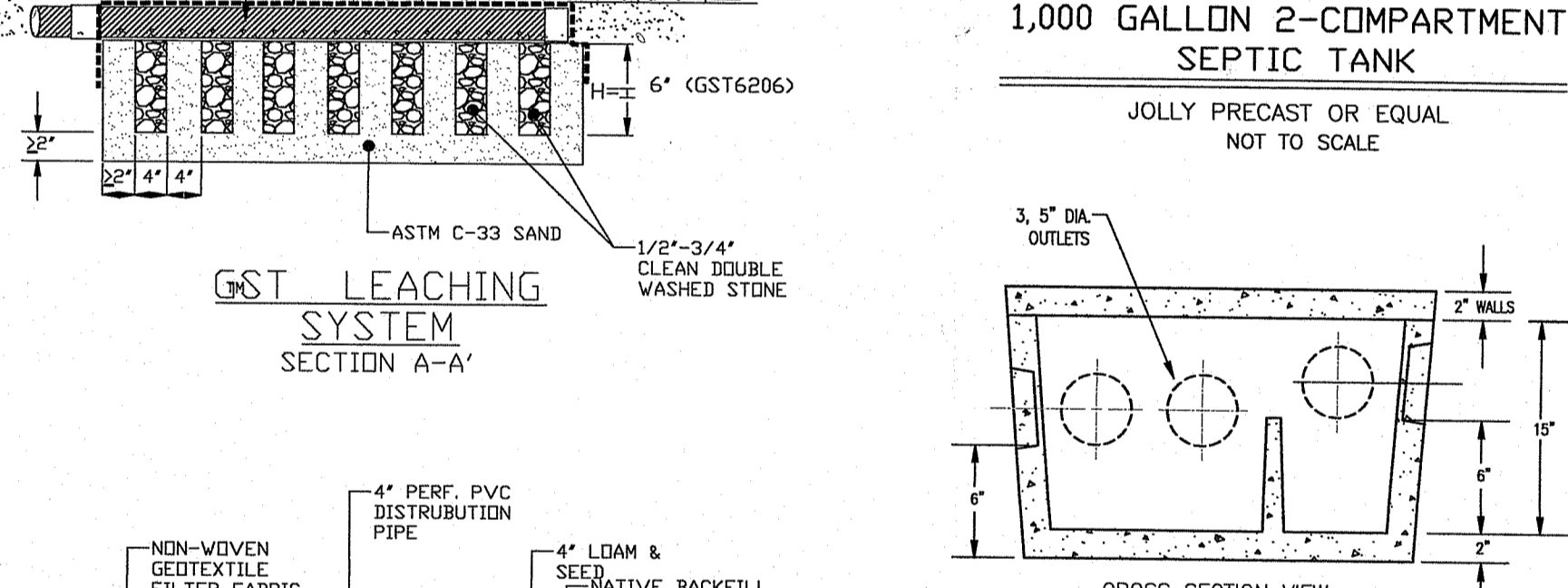
ZABEL A1800 EFFLUENT FILTER
NOT TO SCALE



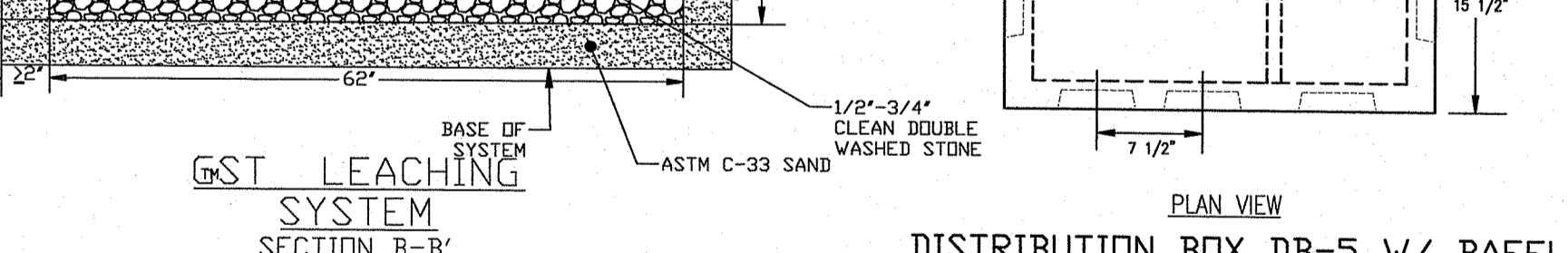
Locus Map
NOT TO SCALE



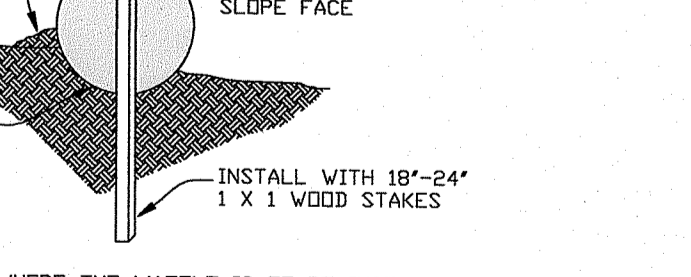
GST LEACHING SYSTEM
PLAN VIEW
CROSS SECTION VIEW



1,000 GALLON 2-COMPARTMENT SEPTIC TANK
CROSS SECTION VIEW

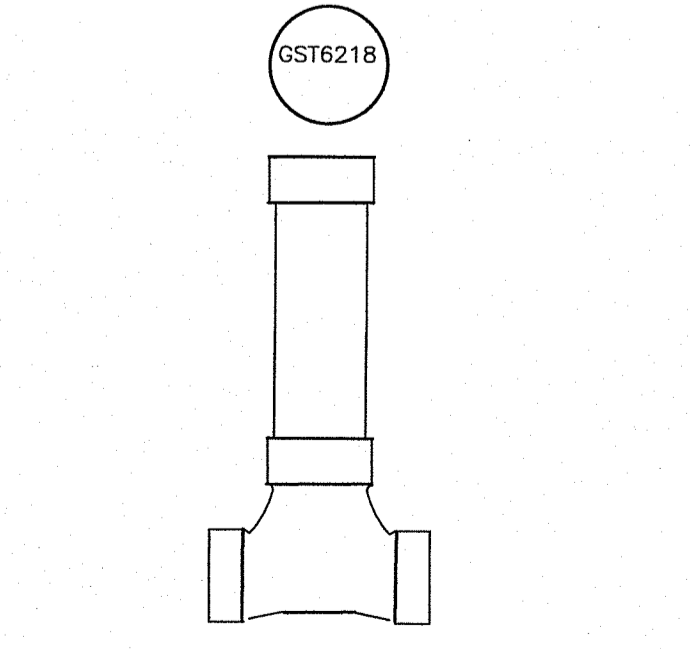


GST LEACHING SYSTEM SECTION B-B'
PLAN VIEW



DISTRIBUTION BOX DB-5 W/ BAFFLE
H-20 RATED
NOT TO SCALE

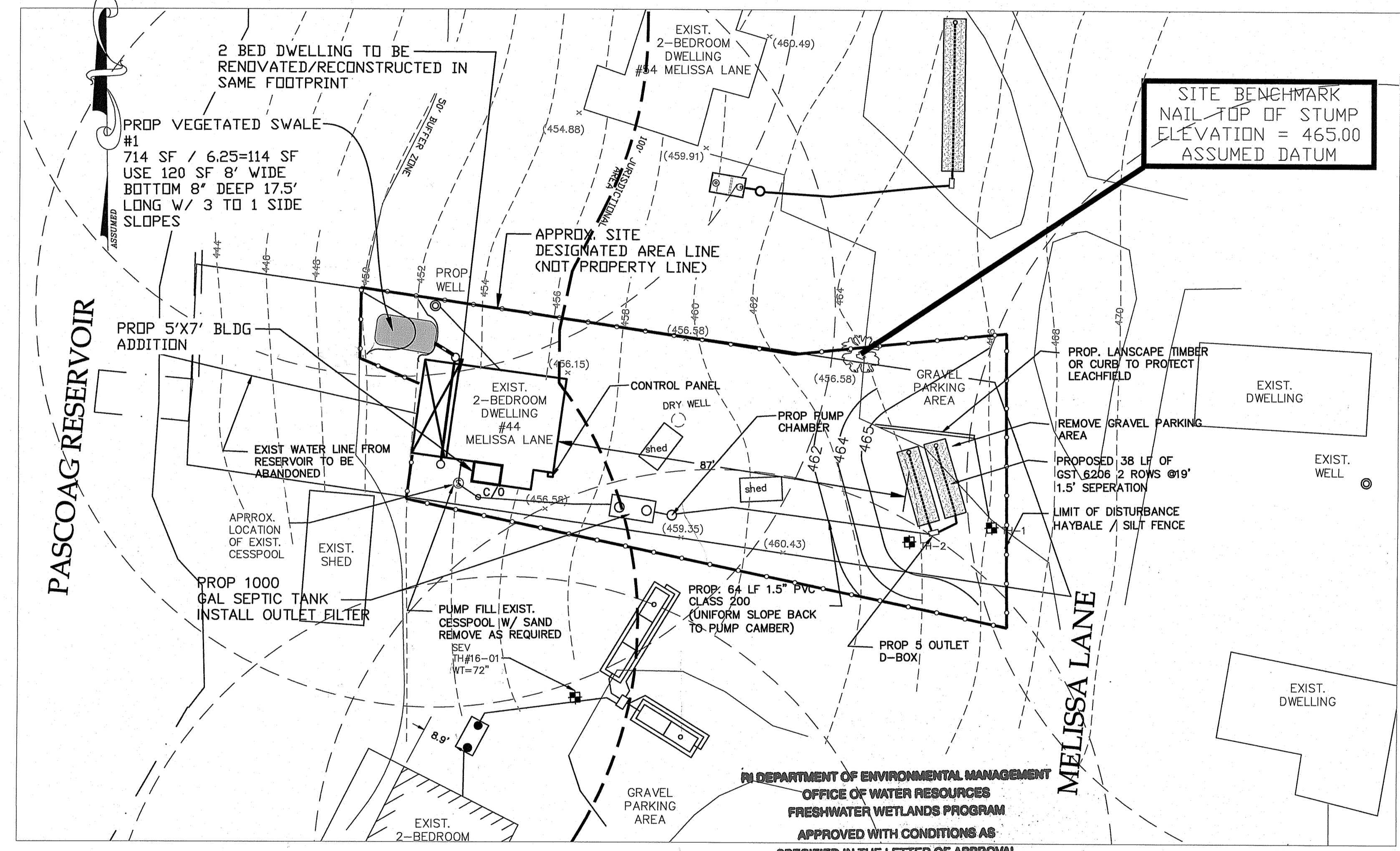
INSCRIBED PER GEOMATRIX



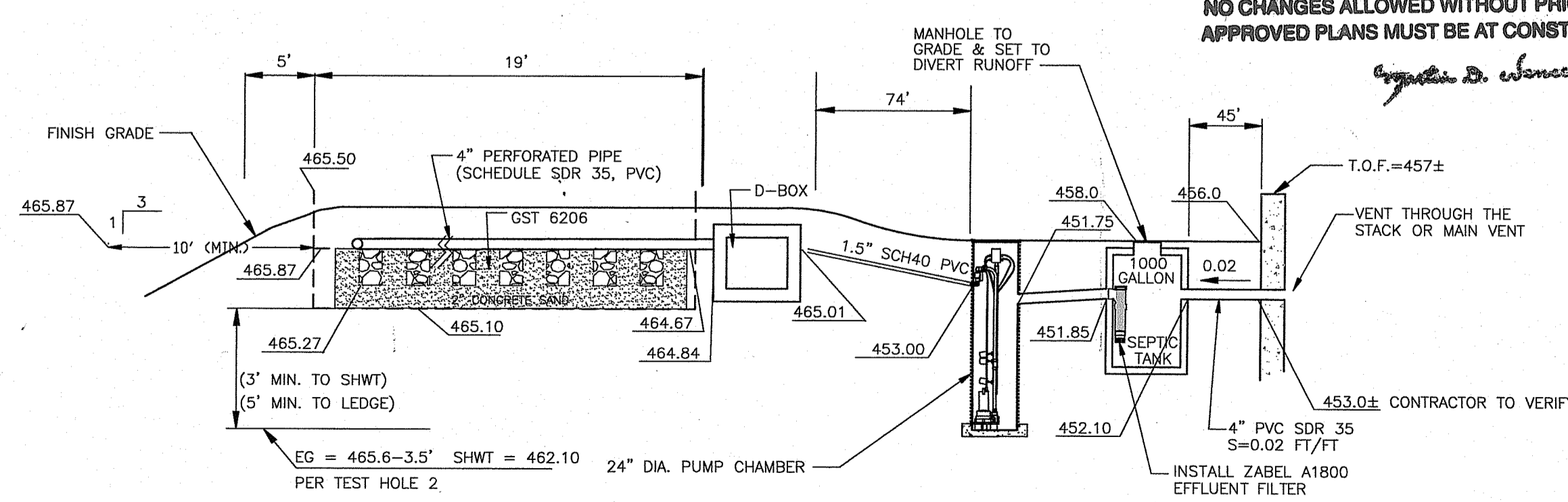
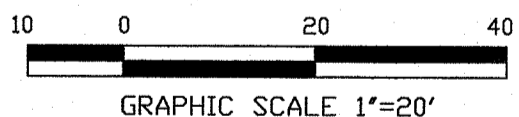
GST INSPECTION PORT DETAIL
NOT TO SCALE

LEACHFIELD DESIGN CALCULATION

- 2 BEDROOMS X 115 GALLONS PER BEDR/DAY = 230 GALLONS PER DAY
- DESIGN LOADING RATE, SOIL CATEGORY = 0.61 GAL/S.F./DAY
- 230 GPD / 0.61 GAL/S.F./DAY = 377 S.F. LEACHING AREA REQUIRED
- DESIGN GEOMATRIX GST 6206 LEACHFIELD
- 377 S.F. / 10.3 S.F. PER L.F. OF GST 6206 = 36.6 LF REQUIRED
- 38 LF PROVIDED
- 38 X 10.3 S.F. PER L.F. = 391 S.F. LEACHING AREA PROVIDED
- MATERIAL QUANTITIES:
- 3/4" STONE = 0.2 X 36 = 8 CUBIC YARDS
- ASTM C-33 CONCRETE SAND = 0.25 X 36 = 9 CUBIC YARDS



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAR 19 2025 FILE #: 25-027
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



D.W.T.S. (GST) PROFILE

SOIL EROSION & SEDIMENT CONTROL NOTE:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT EROSION CONTROLS SHOWN ON THIS PLAN ARE MINIMUM REQUIRED BASED ON THE FINAL GRADING CONDITIONS. DURING CONSTRUCTION ADDITIONAL CONTROLS MAY BE REQUIRED DUE TO TEMPORARY GRADING, EXCESSIVE RAIN EVENTS, AND/OR GRADING CONDITIONS ON ADJACENT LOTS THAT DO NOT MATCH THE SUBDIVISION PLAN.

General Notes

1. CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION.
2. PROPER EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES.
3. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE TO COORDINATE AND OBTAIN ALL PERMITS FOR CONSTRUCTION.

OnSite Wastewater Treatment System Notes

1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREIN OR NOT, SHALL BE IN CONFORMANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS, EFFECTIVE NOVEMBER 25, 2018 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
2. STRIP LEACHING AREA OUT 5 FEET AROUND PERIMETER AND EXCAVATE DOWN TO ELEVATION 465.80 OR AS REQUIRED UPON INSPECTIONS AND REPLACE WITH GRAVEL AS SPECIFIED IN RIDEM REGULATIONS IF BELOW SYSTEM BOTTOM.
3. INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SMEARED.
4. ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
5. MAINTAIN INVERT ELEVATION OF 465.87 FOR 10 FEET AROUND SYSTEM.
6. THERE ARE NO KNOWN PRIVATE WELLS OR DRAINS EXIST. OR PROPOSED LOCATED WITHIN 200 FEET OF THE DWTS EXCEPT AS SHOWN AND NO KNOWN PUBLIC WELLS EXIST. & PROP'D LOCATED WITHIN 500 FEET OF THE PROPOSED DWTS.
7. THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED DWTS.
8. ALL PVC PIPE SHALL BE 4" DIA. SDR 35 OR EQUIVALENT, UNLESS NOTED OTHERWISE.
9. THE SEPTIC TANK SHALL HAVE TEES ON BOTH THE INLET AND OUTLET AND SHALL BE A TWO (2) COMPARTMENT TANK WITH THE 1ST COMPARTMENT CONSISTING OF 1/3 TANK CAPACITY.
10. THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
11. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.
12. THE INSTALLER SHALL CONTACT THE DESIGN OF RECORD AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.

Advanced Civil Design, Inc.
 CIVIL ENGINEERS

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 PH (401) 644-8656

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
 Kindly be advised that this permit is not equivalent to a 1/24 revision of the height or extent of freshwater wetlands on site

Single-Family Residence

A.P. 264 LOT 5-11
 44 MELISSA LANE
 BURLINGAME, RI
 JAN 24 2025

ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) PLAN & DETAILS

DATE: JULY 2024 DESIGNED BY: N.J.P.
 SCALE: 1"=20' CHECKED BY: C.S.R.

NICHOLAS J. PIAMPANO
 No. 7-1000-0012
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)
 D. 3059

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