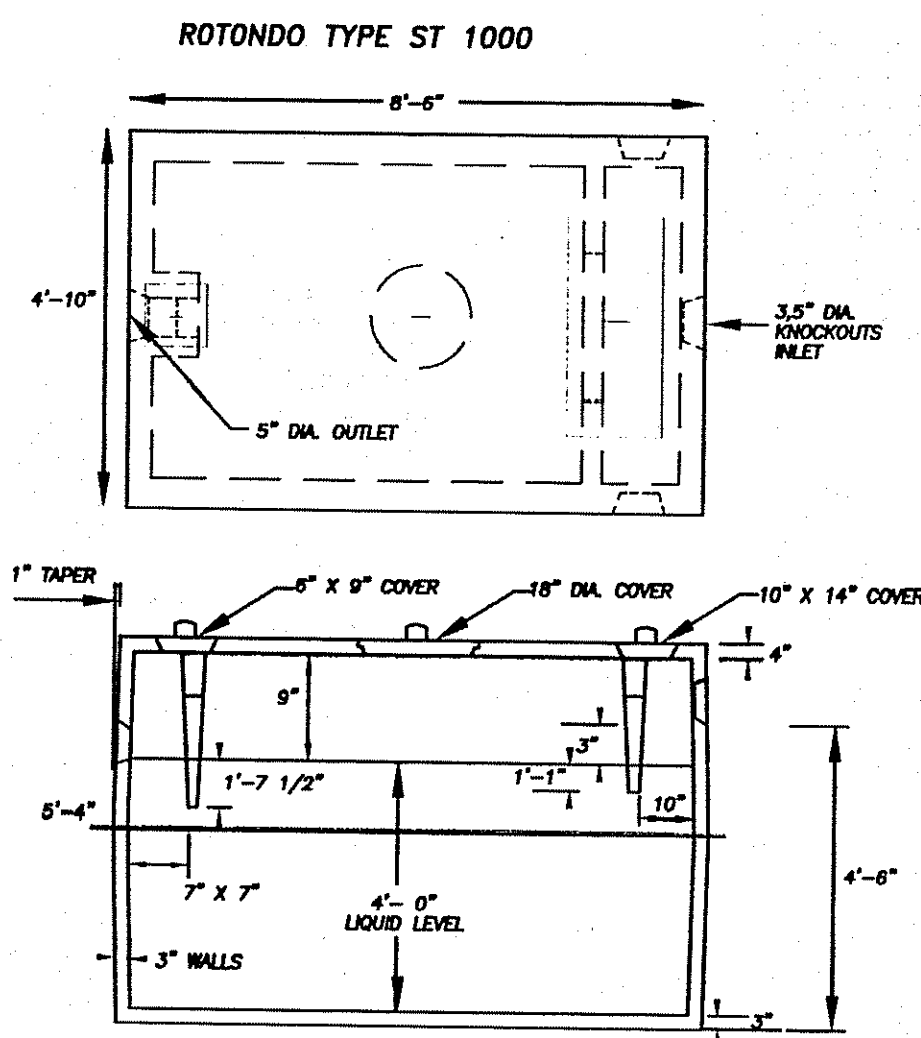
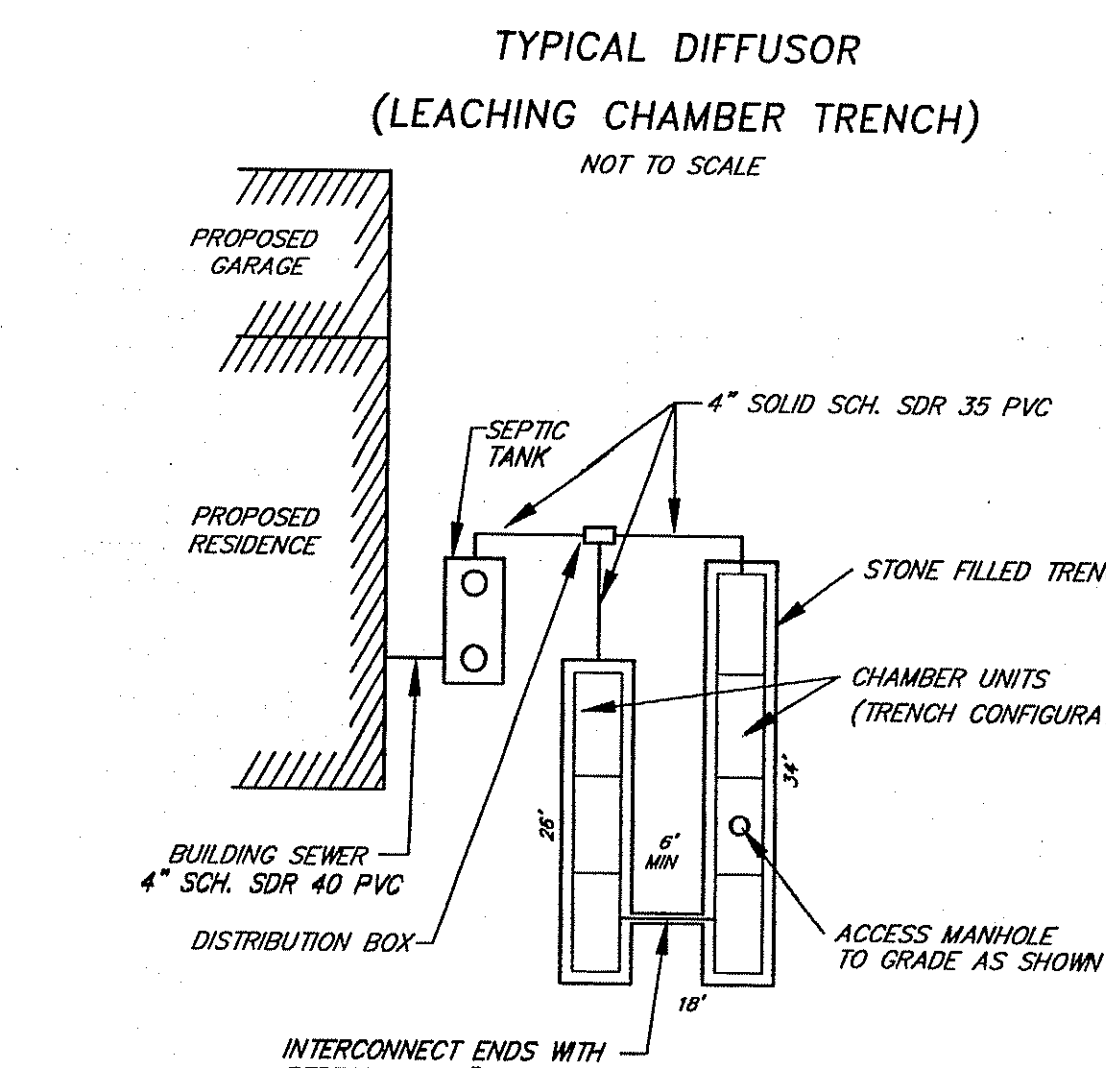
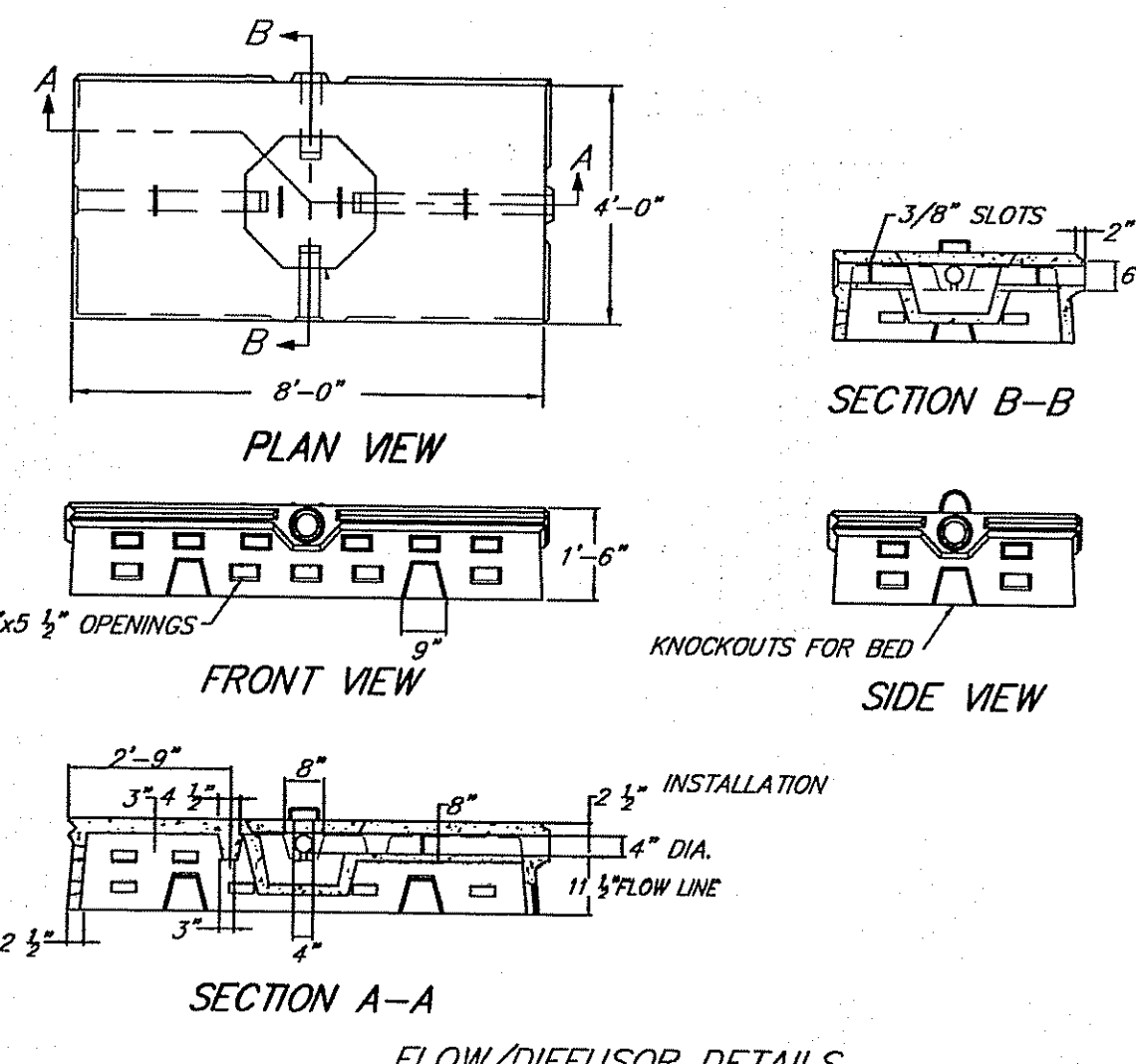
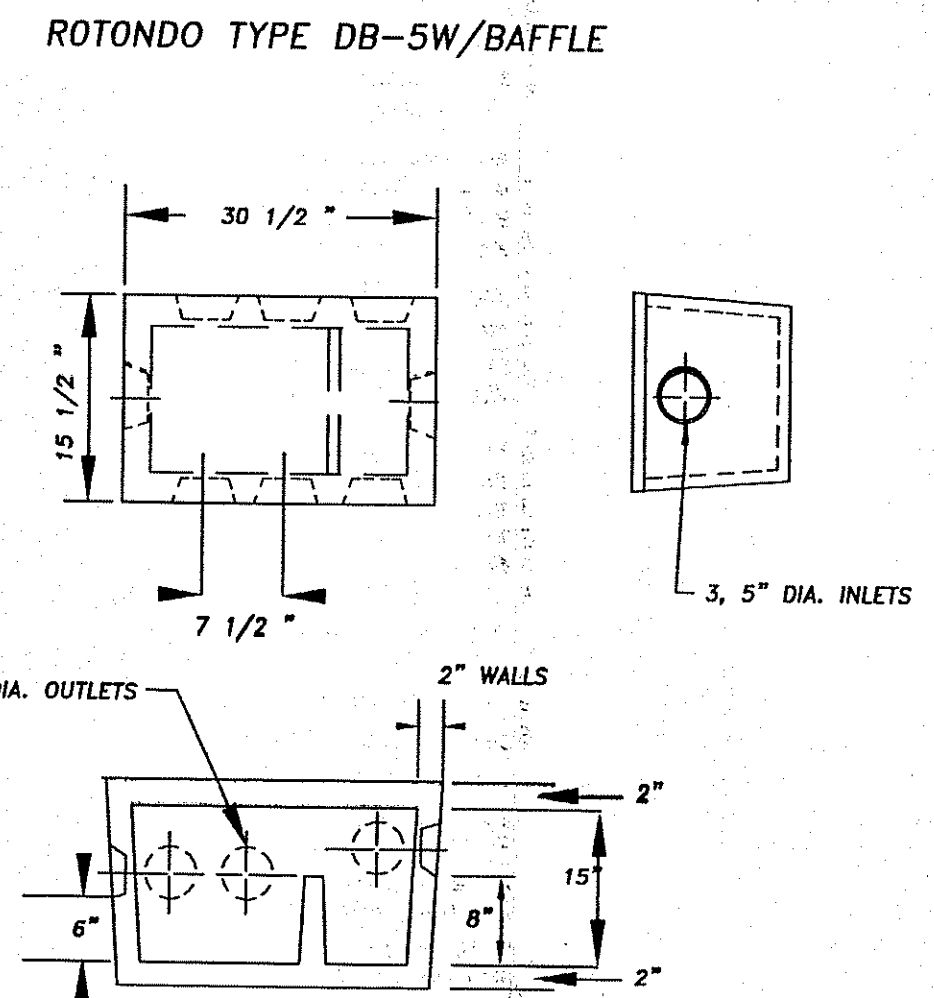


1000 GALLON SEPTIC TANK DETAIL



DISTRIBUTION BOX (DB-5) DETAIL



PARCEL OWNER/APPLICANT

JOSEPH R. GARDINER
23 MEADOWBROOK ROAD
WYOMING, RI 02898

PARCEL ZONING R-2

MIN. LOT SIZE 2 Ac.
FRONT SETBACK 50'
SIDE SETBACK 35'
REAR SETBACK 100'
LOT WIDTH 200'
MAX. HEIGHT 35'

PROJECT BIOLOGIST/SOIL EVALUATOR

KEVIN FETZER D-4029
ECOTONES INC.
THE MEADOWS
1130 TEN ROD ROAD
SUITE C, 2030
NORTH KINGSTOWN, RI 02852
F. 401.884.8206
E. 401.884.7742

SYSTEM DESIGNER/PROJECT SURVEYOR

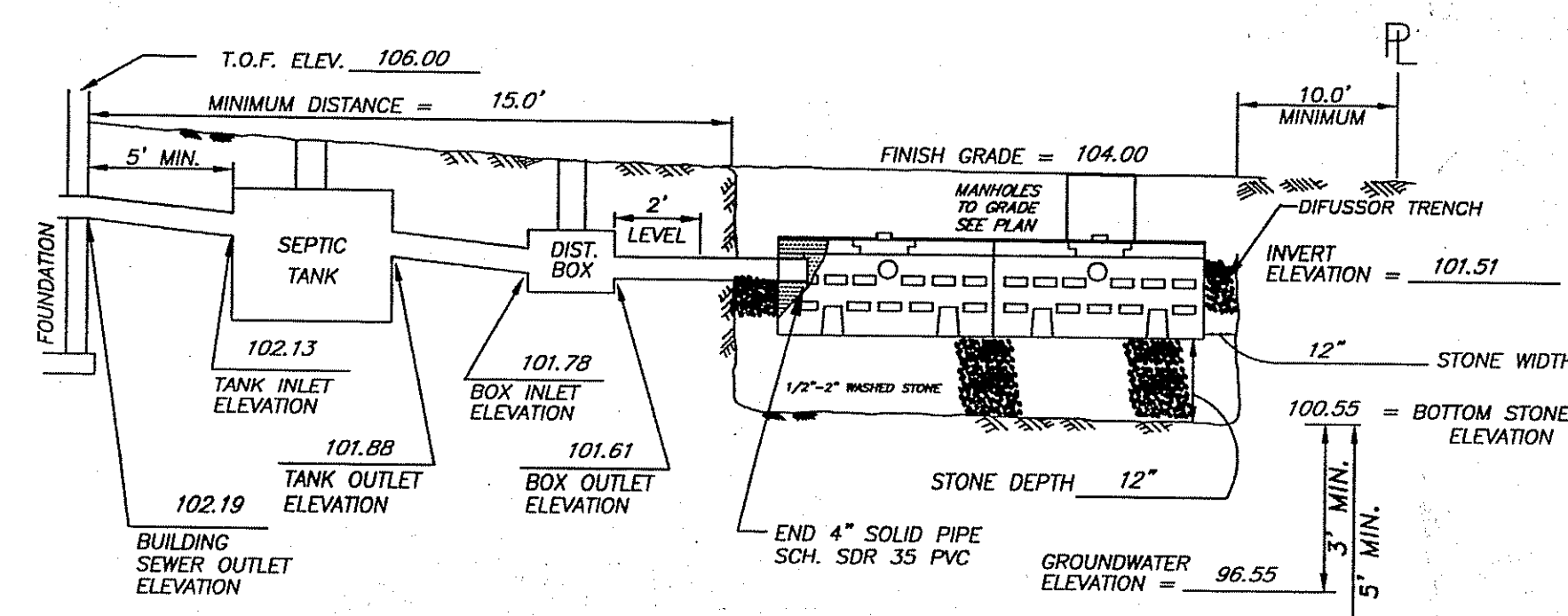
MICHAEL J. MCCORMICK
ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
F. 401.884.7742
E. 401.884.7742

FLOOD NOTE:

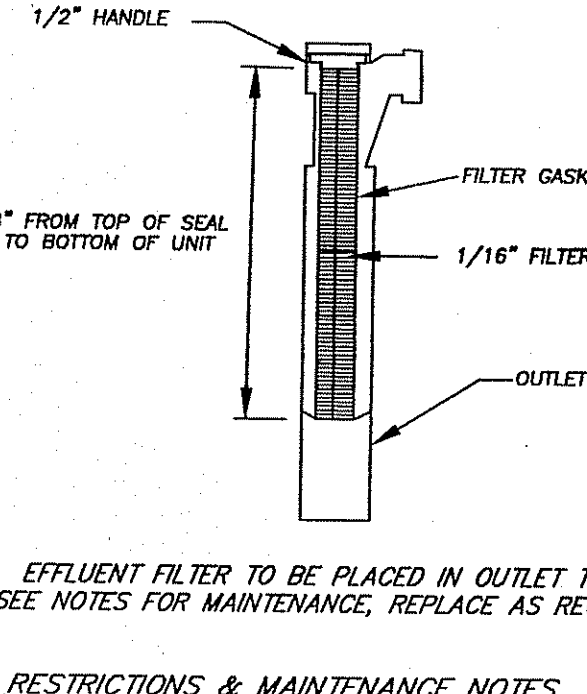
PARCEL FALLS WITHIN ZONE 'C'
ECOTONES FROM PARCEL No. 440031 0004B
EFFECTIVE DATE: NOVEMBER 5, 1980.



CHAMBER (DIFFUSOR) SYSTEM PROFILE



ZABEL A1800 RESIDENTIAL SEPTIC TANK EFFLUENT FILTER



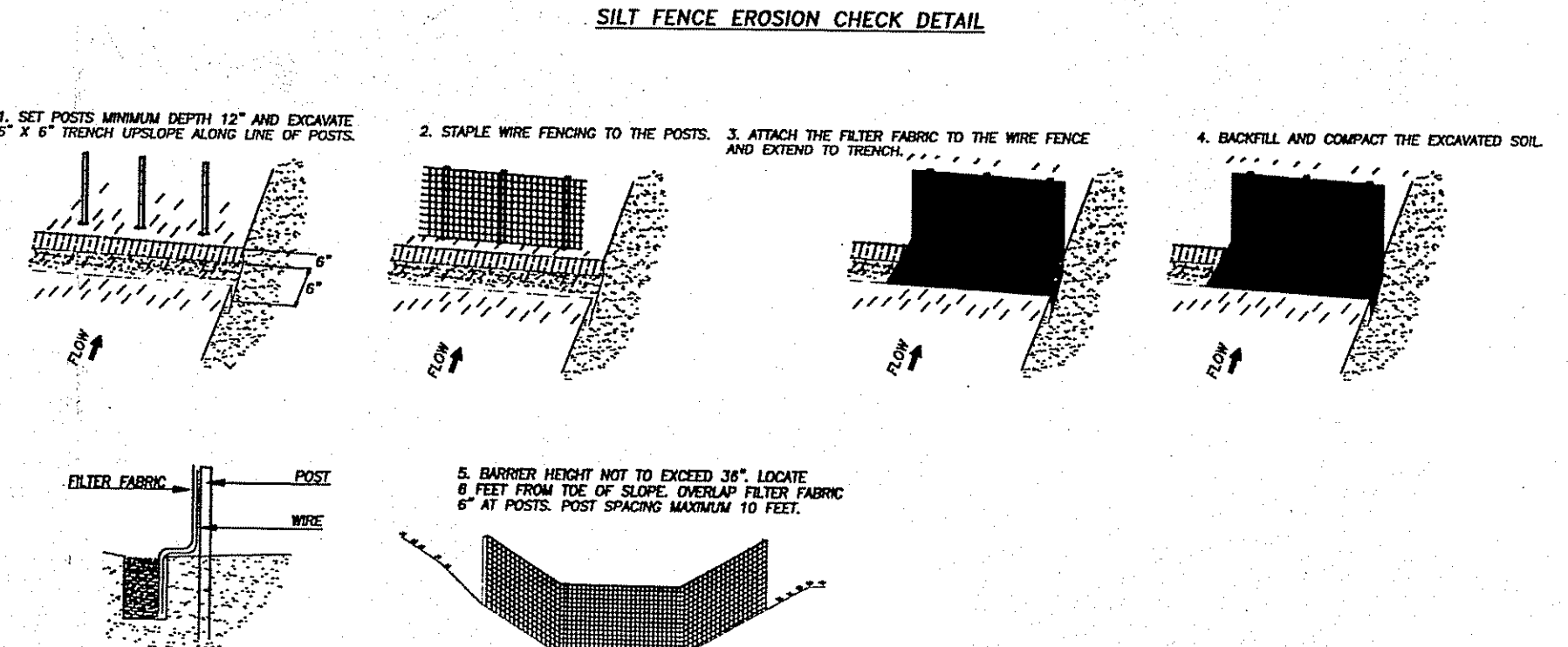
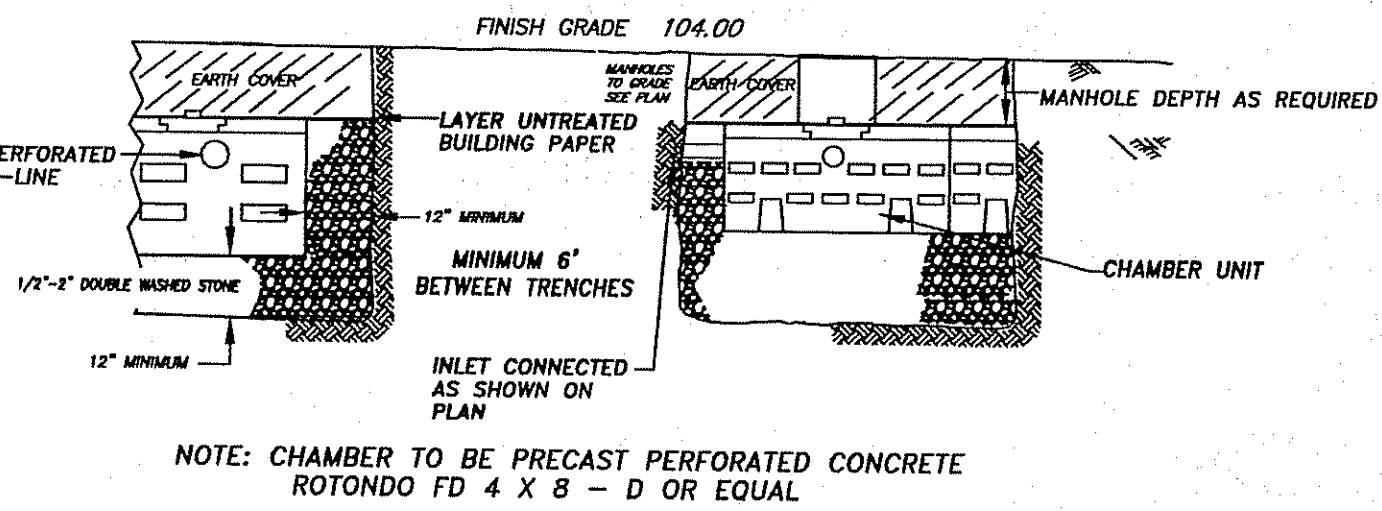
LEGEND

- - - - - 106 - - - - - EXISTING CONTOUR
- - - - - 100 - - - - - PROPOSED GRADE
- - - - - EXISTING WOODLINE
- - - - - EXISTING WETLAND AREA
- - - - - EXISTING WETLAND FLAGGING
- - - - - EXISTING TESTHOLES
- - - - - EXISTING UTILITY POLE
- - - - - PROPOSED ARBORVITAE PLANTING (3' - 5' TALL)
- - - - - SILT FENCING/ LIMITS OF DISTURBANCE

RESTRICTIONS & MAINTENANCE NOTES

1. GARBAGE DISPOSALS SHALL NOT BE PERMITTED BY THIS DESIGN. OWNER IS REQUIRED TO INSPECT SEPTIC SYSTEM QUARTERLY, WITH 2 YEAR MINIMUM PUMPING INTERVAL.
2. EFFLUENT FILTER SHALL BE INSPECTED AND CLEANED AT MINIMUM BIENNIAL INTERVALS.

NOTE: ALL SHOWN PIPE ELEVATIONS ARE AT INVERTS.



ISDS NOTES & CONDITIONS

SEPTIC TANK NOTE

SEPTIC TANK TO BE PLACED ON STABLE LEVEL BASE WITH OUTLET TEE AND MANHOLE TO BE PLACED TO GRADE. WELL TO SEPTIC TANK MINIMUM SEPARATION 25 FEET. WATER LINE TO SEPTIC TANK MINIMUM SEPARATION 0 FEET. ALL PIPING 4" SCHEDULE SDR 35 PVC.

DISTRIBUTION BOX NOTE

H-20 WHEEL LOADING DISTRIBUTION BOX WITH BAFFLE TO BE PLACED ON STABLE LEVEL BASE WITH ACCESS COVER TO GRADE (3 SQUARE FOOT MIN.). WELL TO DISTRIBUTION BOX MINIMUM SEPARATION 25 FEET. WATER SERVICE TO DISTRIBUTION BOX MINIMUM SEPARATION 0 FEET. PIPING TO BE SOLID 4" SCHEDULE SDR 35 PVC TO LEACHING AREA. TRENCH NOTES

DIFFUSOR CALCULATIONS

REQUIRED LEACHING AREA = 680 SQUARE FEET.
DEPTH OF STONE SIDES AND BOTTOM = 12" INCHES.
END UNITS = 4 @ 28 s.f. = 112 s.f. CREDIT.
INTERIOR UNITS = 3 @ 64 s.f. = 192 s.f. CREDIT.
TOTAL SQUARE FEET OF LEACHING AREA = 504

CONSTRUCTION NOTES

- 1.) ALL CONSTRUCTION TO BE IN ACCORDANCE WITH DEM REGULATION R23-1-SD, AS AMENDED.
- 2.) HEAVY EQUIPMENT SHALL NOT PASS OVER ISDS AREA: PAVEMENT, PARKING AND VEHICULAR TRAFFIC ARE PROHIBITED OVER ISDS UNLESS SPECIFIED BY DESIGN.

CLASS II DESIGNER REQUIREMENTS

- A. THE APPLICANT IS REQUIRED TO NOTIFY THIS DESIGNER OF INTENTION TO START CONSTRUCTION OR GRADING OF THIS SITE 10 DAYS PRIOR TO START OF SITE WORK. THE CONTRACTORS TELEPHONE & INSTALLER NUMBER SHALL BE FURNISHED TO THIS DESIGNER FOR COORDINATION OF PROPOSED WORK. THE FOLLOWING MINIMUM REQUIRED ITEMS ARE AS FOLLOWS:
 1. 24 HOUR NOTICE OF START OF CONSTRUCTION.
 2. NOTICE FOR INSPECTION OF ISDS BOTTOM LEACHING AREA PRIOR TO 12 NOON THE DAY BEFORE DESIRED DESIGNER/DEM INSPECTION.
 3. NOTICE FOR INSPECTION OF COMPONENTS & PERIMETER GRADING PRIOR TO 12 NOON THE DAY BEFORE DESIRED DESIGNER/DEM INSPECTION.
 4. ALL DEM INSPECTION SHEETS ARE TO BE FAXED TO THIS DESIGNER WITHIN 24 HOURS OF RECEIPT.
- B. SITE LAYOUT AND REQUIRED INSPECTIONS TO BE MADE BY THIS DESIGNER FOR THE FOLLOWING WORK ITEMS:
 1. FOUNDATION & ISDS LOCATION AND ELEVATION.
 2. INSPECTION OF ISDS BOTTOM LEACHING AREA.
 3. INSPECTION OF ISDS COMPONENTS & FULL PERIMETERS.
 4. FINAL COVER & WELL LOCATION INSPECTION.
- C. THE APPLICANT SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE SHOWN DESIGN AND INCLUDE ANY OF THE FOLLOWING:
 1. NEW APPLICATIONS AS REQUIRED BY DEM GUIDELINES.
 2. AS-BUILT LOCATIONS AND REQUIRED PLANS.
 3. COMMUNICATIONS OR COORDINATION WITH DEM STAFF.
 4. CHANGES IN INSTALLATION NOT MEETING DEM REQUIRED GUIDELINES.
- D. THE APPLICANT SHALL PROVIDE DESIGNER WITH MATERIALS RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
- E. THE OWNER SHALL FURNISH ORIGINAL APPLICATION (PINK COPY) AND ACCOMPANYING PLAN APPROVAL TO INSTALLER PRIOR TO START OF CONSTRUCTION. SAID INFORMATION SHALL REMAIN ON SITE DURING ENTIRE CONSTRUCTION PERIOD AND RETURNED TO THE OWNER UPON COMPLETION OF ISDS INSTALLATION.
- F. OWNER / APPLICANT'S SIGNING OF APPLICATION SHALL BE CONSIDERED PERMSSION TO INSPECT THE ABOVE SITE AT ANY TIME AFTER START OF CONSTRUCTION BEGINS TO ENSURE PROPER INSTALLATION PROCEDURES & FUNCTIONING OF THE SHOWN ISDS DESIGN.
- G. THE ABOVE INFORMATION ARE MINIMUM REQUIREMENTS AND SHALL BE REVISED AS THE DESIGNER DEEMS NECESSARY FOR PROPER FUNCTIONING OF THE SHOWN ISDS DESIGN.

REFER TO PROFILE AND TYPICALS FOR ADDITIONAL DATA.

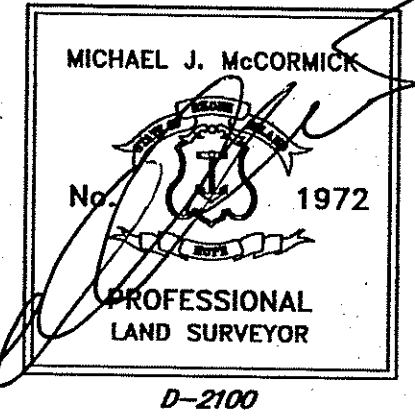
THIS DESIGNER IN NO WAY GUARANTEES SOIL CONDITIONS BEYOND THE LOCATION OF SHOWN TRENCHES. ANY SOIL CHANGES, FILL, LEDGE OR DISCREPANCIES IN REPORTED DATA SHALL BE FORWARDED TO THIS DESIGNER AND THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT ISDS DIVISION, IN WRITING, PRIOR TO COMMENCING CONSTRUCTION OF THE SHOWN SYSTEM.

THE INSTALLER SHALL NOTIFY DESIGNER OF RECORD 10 (TEN) DAYS PRIOR TO INSTALLATION OF THIS SYSTEM IF ITEM E. OF ISDS APPLICATION IS CIRCLED. HE SHALL NOTIFY DESIGNER 24 HOURS PRIOR TO REQUIRED INDIVIDUAL INSPECTIONS.

THE OWNER SHALL BE RESPONSIBLE FOR PAYMENT OF ALL INSPECTIONS, AS-BUILT WORK AND AS-BUILT SUBMISSIONS.

DIFFUSOR NOTES

- 1.) ALL BRUSH AND TREES TO BE REMOVED A MINIMUM 10 DISTANT FROM LEACHING AREA.
- 2.) STRIP ALL UNSUITABLE SOILS WITHIN 0 FEET OF LEACHING AREA PERIMETER TO MINIMUM DEPTH OF 2.5 FEET. BACKFILL WITH DEM APPROVED GRAVEL TO ELEVATION 102.0.
- 3.) DEPTH OF STONE SIDES AND BOTTOM 12 INCHES.
- 4.) PIPING SHALL BE SCHEDULE SDR 35 PVC PERFORATED WITH PERFORATIONS PLACED DOWN.
- 5.) WASHED STONE 1/2" TO 2" DIAMETER TO BE PLACED 2" ABOVE PVC DISTRIBUTION LINES.
- 6.) COVER STONE WITH UNTREATED BUILDING PAPER OR STRAW.
- 7.) PLACE EARTH COVER OVER LEACHING AREA, MINIMUM 18" MAXIMUM 42".
- 8.) MAINTAIN INVERT ELEVATION 25 FEET DISTANT TO LEACHING AREA IN ALL DIRECTIONS TO EL. 101.51 MINIMUM UNLESS NOTED.



THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
MICHAEL J. MCCORMICK, PLS 1972

PROPOSED SITE PLAN

ASSESSORS PLAT 6B, LOT 5-49

WHISPERING PINES ROAD, POLE #8

RICHMOND, RHODE ISLAND

Prepared for: JOSEPH R. GARDINER

prepared by: ALPHA ASSOCIATES, LTD.

35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818

OCT - 4 2007

AUGUST, 2007 SCALE: 1"=20' SHEET 1 OF 1 DWG. 5722-2