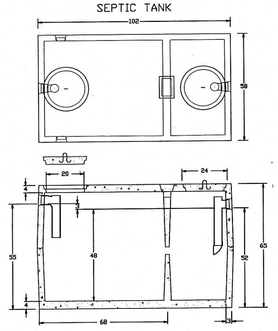
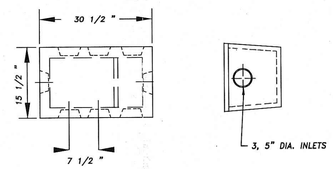
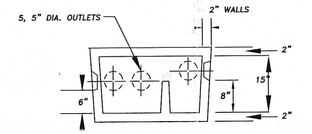
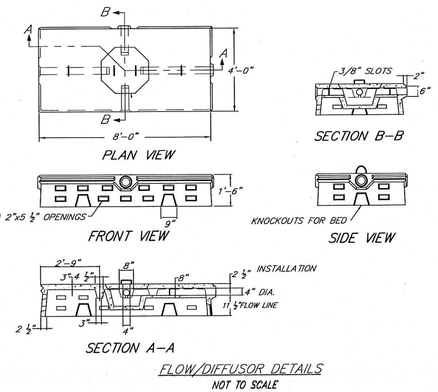


DISTRIBUTION BOX (DB-5) DETAIL

ROTONDO TYPE DB-5W/BAFFLE







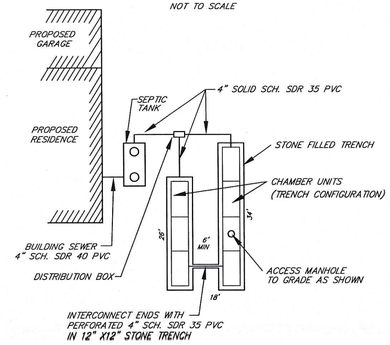
FLOW/DIFFUSOR DETAILS

NOT TO SCALE

TYPICAL DIFFUSOR

(LEACHING CHAMBER TRENCH)

NOT TO SCALE



MAGNETIC NORTH

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 O-4029
ECOTONES INC.
THE MEADOWS
1130 TEN ROD ROAD
SUITE C, 205D
NORTH KINGSTOWN, RI 02852
401.294.1155

SYSTEM DESIGNER/PROJECT SURVEYOR

MICHAEL J. McCORMICK
ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
P.401.884.8506
F.401.884.7747

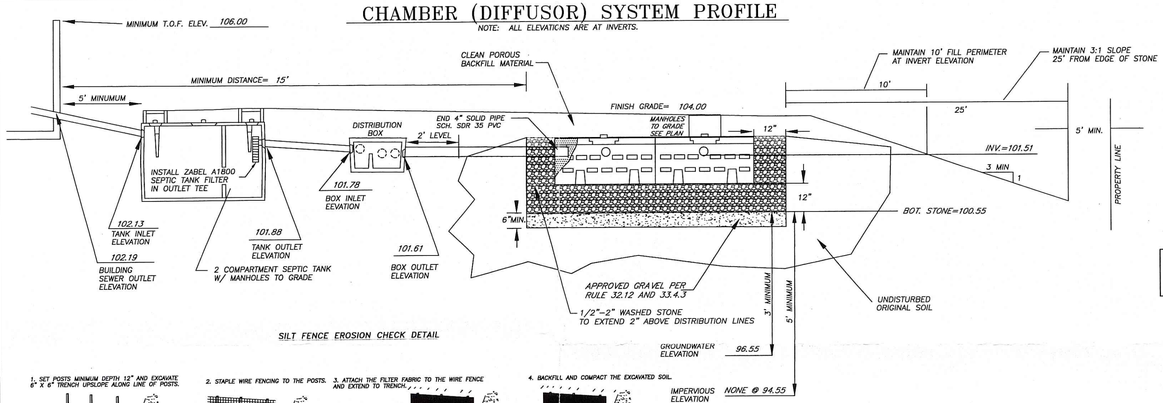
FLOOD NOTE:

PARCEL FALLS WITHIN ZONE 'C'
PER FEMA FIRM PANEL No. 440031 0004B.
EFFECTIVE DATE: NOVEMBER 5, 1980.
PER FLOOD PLAIN ANALYSIS PREPARED BY GORDON R. ARCHIBALD INC., PROFESSIONAL ENGINEERS, A CONSERVATIVE ESTIMATE OF THE 100 YR. FLOODPLAIN WOULD BE ELEVATION 96.0 CORRELATED TO THE ASSUMED BASE AS DEPICTED ON THIS DRAWING.

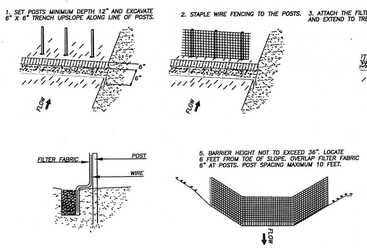
LOCUS 1"=2000'

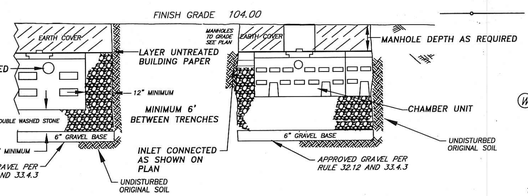
CHAMBER (DIFFUSOR) SYSTEM PROFILE

NOTE: ALL ELEVATIONS ARE AT INVERTS.



SILT FENCE EROSION CHECK DETAIL





NOTE: CHAMBER TO BE PRECAST PERFORATED CONCRETE ROTONDO FD 4 X 8 - D OR EQUAL

TYPICAL DIFFUSOR CROSS SECTION

NO SCALE

GENERAL NOTES:

1. BENCHMARK ELEVATION BASED ON ASSUMED ELEVATION. MAGNETIC NAIL SET IN UTILITY POLE 8, ELEVATION 103.14.
2. SITE IS MODERATELY WOODED WITH RED MAPLES AND WHITE PINES.
3. SITE DOES NOT FALL WITHIN ANY NATURAL HERITAGE AREAS.
4. PREVIOUS ISDS APPLICATION NUMBER 9629-0850.

WETLANDS NOTES:

1. WETLAND FLAGGING (FLAGS A-100 TO A-108) PERFORMED BY ECOTONES, INC. ON JULY 13, 2007.
2. PROPOSED DISTURBANCE AREA: 1,240 s.f. TO BE REPLANTED/ SEEDED, AND REGRADED AS SHOWN.
3. PROPOSED TEMPORARY DISTURBANCE AREA FOR WELL: 395 s.f. TO REVEGITATE NATURALLY

DIFFUSOR NOTES

1.) ALL BRUSH AND TREES TO BE REMOVED A MINIMUM 10 DISTANT FROM LEACHING AREA.

2.) THERE SHALL BE A MINIMUM SIX (6) INCH GRAVEL BASE MEETING THE REQUIREMENTS OF RULE 32.12 BELOW THE STONE.

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.

7. PLACE EARTH COVER OVER LEACHING AREA, MINIMUM 18" MAXIMUM 30".

8.) MAINTAIN INVERT ELEVATION 10 FEET DISTANT TO LEACHING AREA IN ALL DIRECTIONS TO EL. 101.51 MINIMUM UNLESS NOTED.

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 75 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 75 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 493 SQUARE FEET.

DEPTH OF STONE SIDES AND BOTTOM 12" INCHES.

END UNITS = 4 @ 78 s.f.= 312 s.f. CREDIT.

INTERIOR UNITS= 3 @ 64 s.f.= 192s.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.

ISDS NOTES & CONDITIONS

NOT A PUBLIC WATER SERVICE AREA; WELL REQUIRED.

THERE ARE NO PROPOSED OR EXISTING SEPTIC SYSTEMS WITHIN 200' OF PROPOSED WELL, EXCEPT AS SHOWN.

THERE ARE NO PROPOSED OR EXISTING WELLS, FOR HUMAN CONSUMPTION, WITHIN 200 FEET OF PROPOSED SEPTIC SYSTEM UNLESS SHOWN HEREON.

THERE ARE NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500 FEET OF THIS PROPOSED SEPTIC SYSTEM.

ALL PROPOSED AND EXISTING DRAINS WITHIN 200 FEET OF PROPOSED TRENCHES ARE SHOWN.

THERE ARE NO EXISTING OR PROPOSED DRAINS WITHIN 25 FEET OF PROPOSED TRENCHES.

ALL PIPING TO BE SCHEDULE 35 UNLESS NOTED.

1000 GALLON SEPTIC TANK, MANHOLES (2) PLACED TO GRADE.

DISTRIBUTION BOX H-20 WHEEL LOADING

REFER TO PROFILE AND TYPICALS FOR ADDITIONAL DATA.

THIS DESIGNER IN NO WAY GUARANTEES SOIL CONDITIONS BEYOND THE LOCATION OF SHOWN TESTING. ANY SOIL CHANGES, FILL, LEDGE OR DISCREPANCIES IN REPORTED DATA SHALL BE FORWARDED TO THIS DESIGNER AND THE DEPARTMENT OF ENVIROMENTAL 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 INSTALLER SHALL REMIT ALL DEM ISDS INSPECTOR REQUESTS (INSPECTION REPORTS) TO DESIGNER OF RECORD WITHIN 24 HOURS OF RECEIPT. HE SHALL NOT COVER SYSTEM UNTIL AN AGENT OF DESIGNER HAS GIVEN COVER ORDER.

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

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 & FILL 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 PERMISSION TO INSPECT THE ABOVE SITE AT ANY TIME AFTER START OF CONSTRUCTION BEGINS TO ENSURE PROPER INSTALLATION PROCEDURES & FUNCTIONING OF ISDS SYSTEM.

G. THE ABOVE INFORMATION ARE MINIMUM REQUIREMENTS AND SHALL BE REVISED AS THE DESIGNER DEEMS NECESSARY FOR PROPER FUNCTIONING OF THE SHOWN ISDS DESIGN.

LEGEND

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

ZABEL A1800 RESIDENTIAL SEPTIC TANK EFFLUENT FILTER

EFFLUENT FILTER TO BE PLACED IN OUTLET TEE. SEE NOTES FOR MAINTENANCE, REPLACE AS REQUIRED.

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 BIANNUAL INTERVALS.

DECEMBER 4, 2007 APPLICATION NO. 07-0407

REVISIONS JAN/08

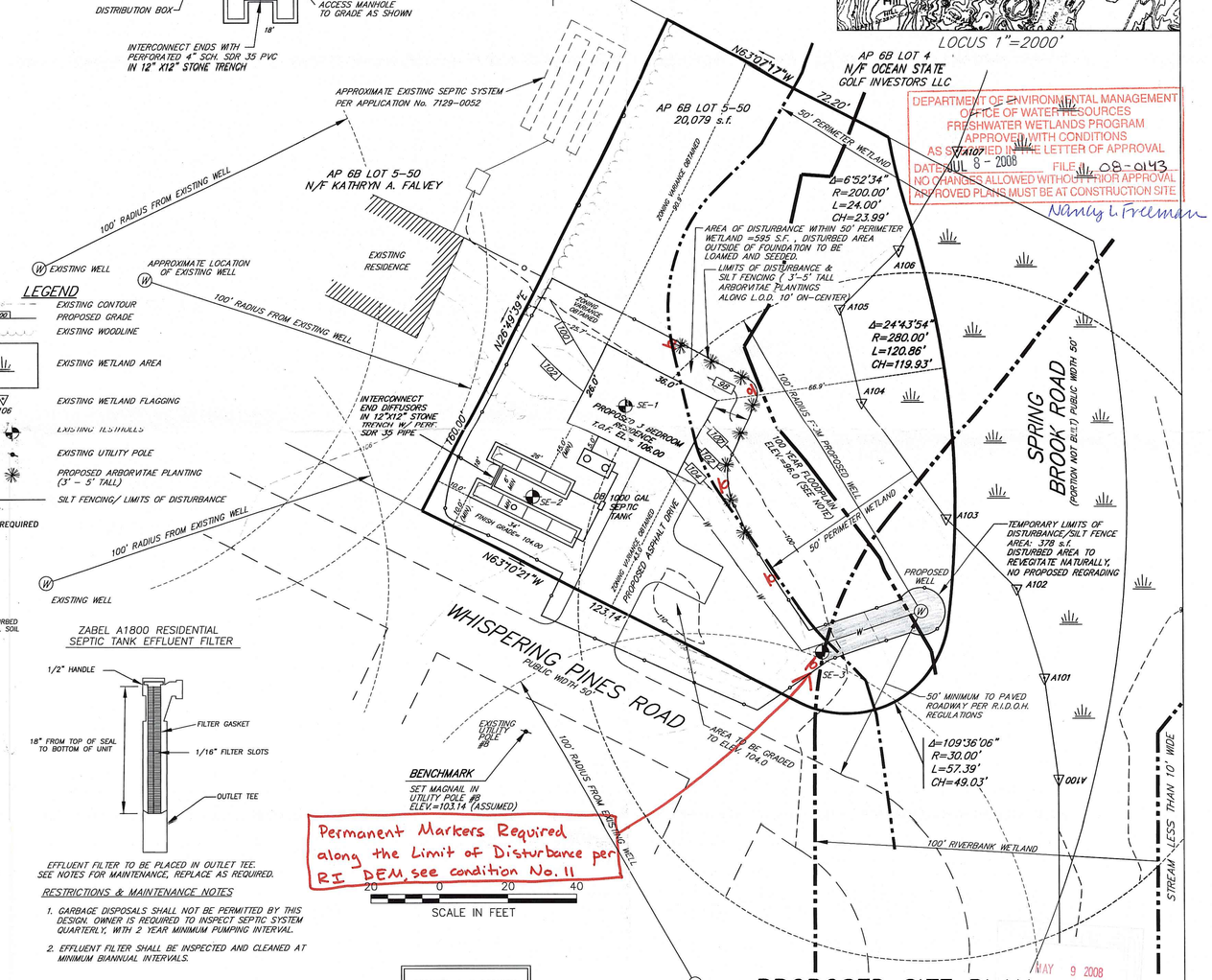
THE DWELLING FOOTPRINT HAS BEEN REDUCED BY REMOVING THE GARAGE.

THE LIMITS OF DISTURBANCE HAS BEEN REVISED TO ENCOMPASS ONLY 10' AROUND THE PROPOSED STRUCTURE, AND ENCOMPASS THE ENTIRE SITE.

TO DECREASE THE ENVIRONMENTAL IMPACTS, DIMENSIONAL VARIANCES FOR FRONT, SIDE, AND REAR SETBACKS HAVE BEEN OBTAINED.

RELIEF FROM THE RICHMOND ZONING BOARD REVIEW WAS GRANTED ON OCT. 22, 2007 THE REQUIRED SETBACK HAS BEEN REDUCED TO 43' FROM THE REQUIRED 50'. THE SIDE SETBACK HAS BEEN REDUCED TO 25' FROM THE REQUIRED 35' SETBACK.

RHODE ISLAND DEPARTMENT OF HEALTH REGULATES THE PROPOSED DRINKING WATER WELL TO 50' DISTANT FROM PAVED ROADWAYS AND 100' DISTANT TO OUTSIDE WASTEWATER TREATMENT SYSTEMS.



Permanent Markers Required along the Limit of Disturbance per RI DEM, see condition No. 11

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS STIPULATED IN THE LETTER OF APPROVAL
DATE: JUL 8 - 2008 FILE: 08-043
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L Freeman

MAY 9 2008

MICHAEL J. McCORMICK
No. 1972
PROFESSIONAL LAND SURVEYOR
D-2100

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

By: 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

SCALE: 1"=20' SHEET 1 OF 1 DWG. 5722-2
AUGUST, 2007 REVISED FEBRUARY, 2008