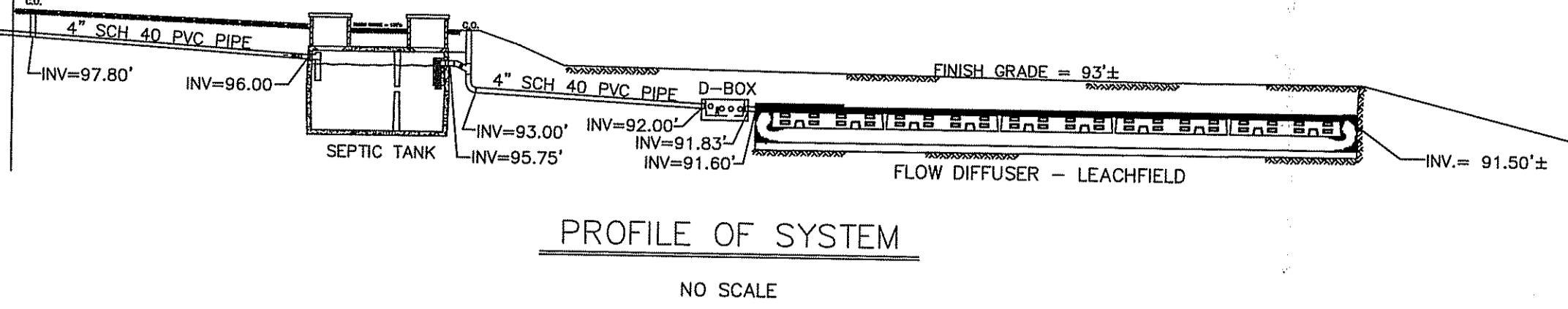
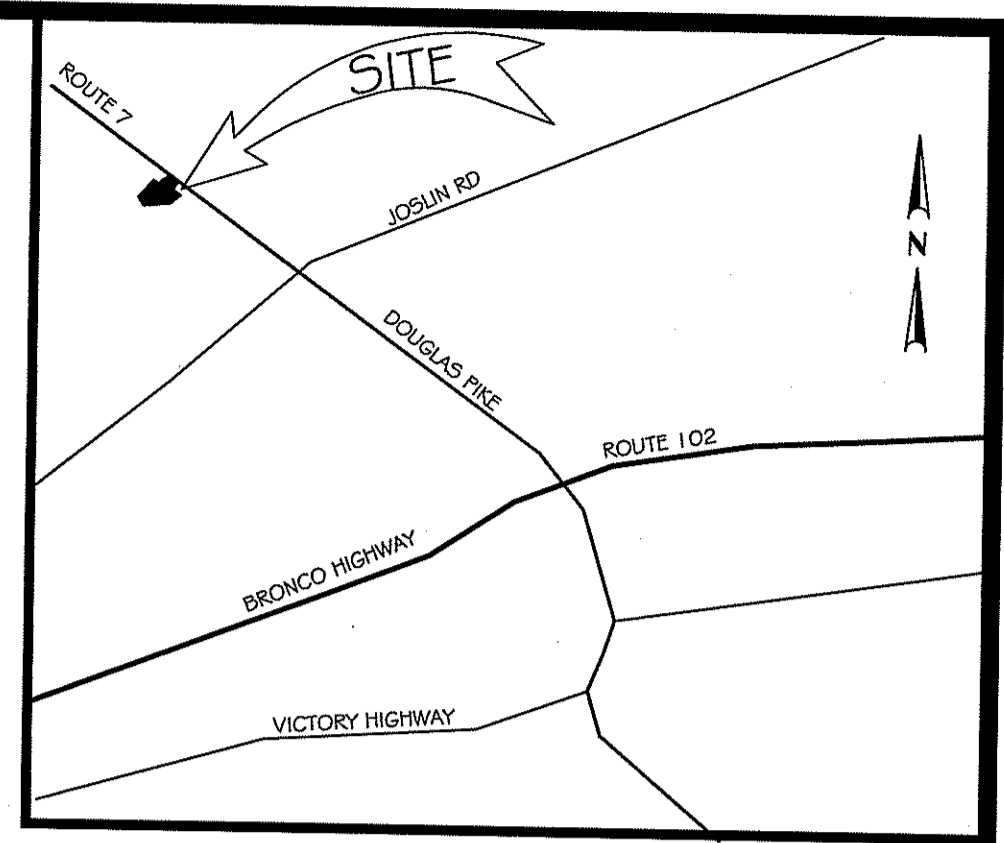


TYPICAL FLOWDIFFUSOR CROSS-SECTION
NO SCALE
SEE MAIN PLAN FOR LOCATION AND NUMBER OF FLOWDIFFUSORS AND TRENCH LINES.

TEST HOLE EXCAVATED 6'-17'
3.14'± 6.0' BELOW GRADE ELEV. = 96.50'
RIDEM APP# 1703-1562



PROFILE OF SYSTEM
NO SCALE



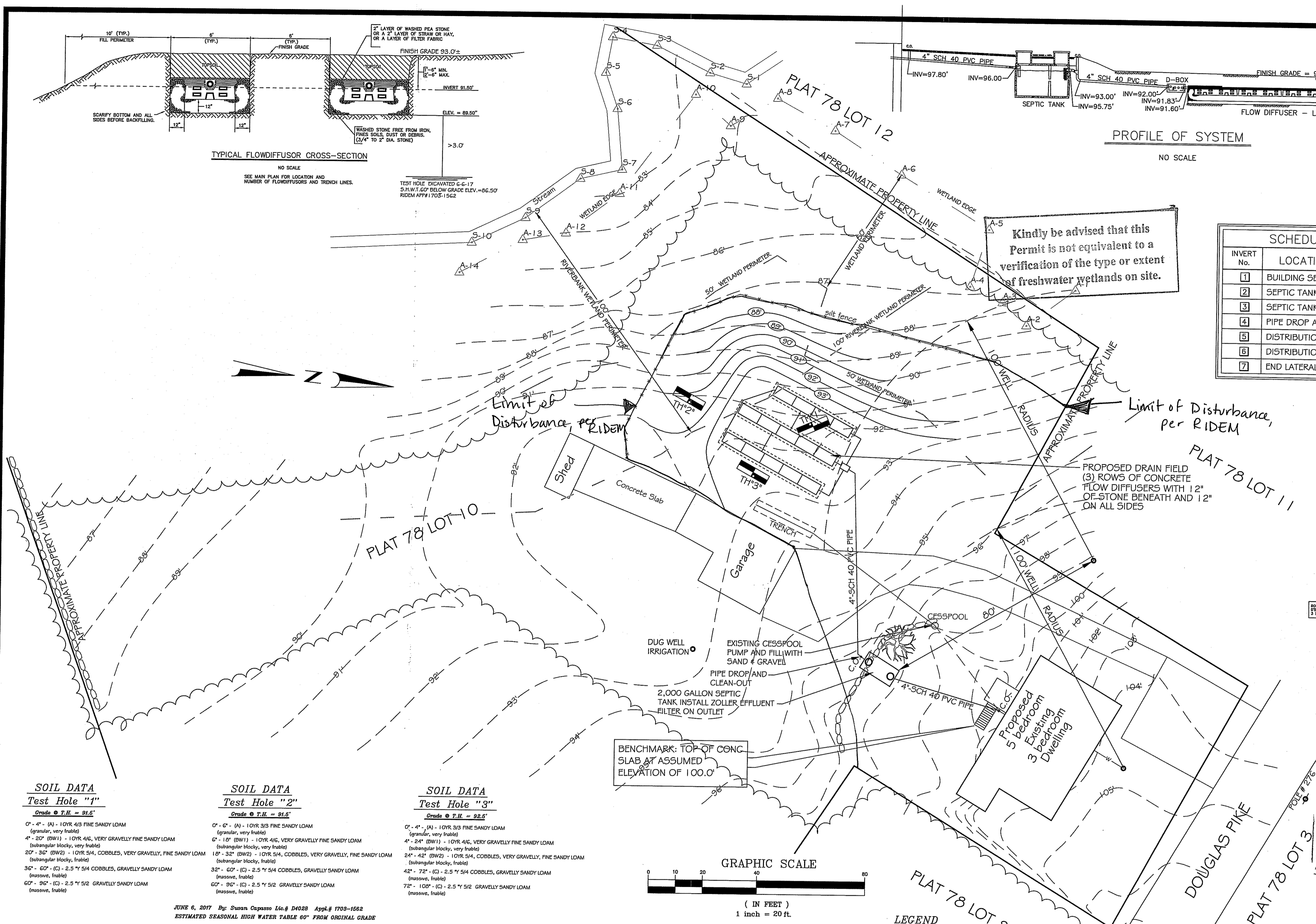
LOCATION MAP

INVERT No.	LOCATION OF INVERT	INVERT ELEV.
1	BUILDING SEWER	97.80'±
2	SEPTIC TANK - INLET	96.00'±
3	SEPTIC TANK - OUTLET	95.75'±
4	PIPE DROP AND CLEAN-OUT	93.00'±
5	DISTRIBUTION BOX - INLET	92.00'
6	DISTRIBUTION BOX - OUTLET	91.83'
7	END LATERAL	91.50'

SYSTEM DESIGN

SOIL CATEGORY GM
LOADING RATE per Table 32.2.2. = .61 gals/sqft/day
5 BEDROOMS
115 x 5 BEDROOMS = 575 GAL/DAY.
575 / .61 = 943 Sq. Ft.
DESIGN USING CONCRETE FLOW DIFFUSERS WITH 12" OF STONE UNDER AND 12" OF STONE AROUND ALL UNITS
EACH END UNIT = 78 Sq.Ft.
EACH INTERIOR UNIT = 64 Sq.Ft.
SIX END UNITS = 468 Sq.Ft.
EIGHT INTERIOR UNITS = 512 Sq.Ft.
HAVING A TOTAL OF 980 SQUARE FEET

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



SOIL DATA
Test Hole "1"

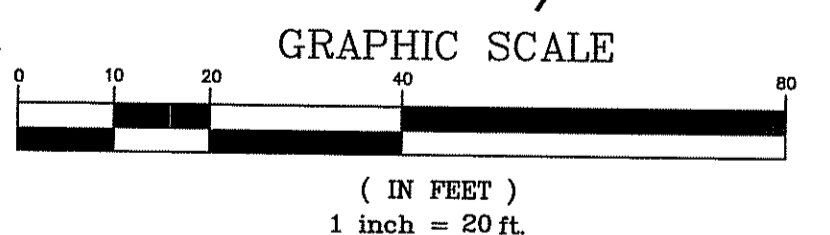
Grade @ T.H. = 91.6'
0' - 4" (A) - 10YR 4/3 FINE SANDY LOAM (granular, very friable)
4" - 20" (BW1) - 10YR 4/6, VERY GRAVELLY FINE SANDY LOAM (subangular blocky, very friable)
20" - 36" (BW2) - 10YR 5/4, COBBLES, VERY GRAVELLY, FINE SANDY LOAM (subangular blocky, friable)
36" - 60" (C) - 2.5 Y 5/4 COBBLES, GRAVELLY SANDY LOAM (massive, friable)
60" - 96" (C) - 2.5 Y 5/2 GRAVELLY SANDY LOAM (massive, friable)

SOIL DATA
Test Hole "2"

Grade @ T.H. = 91.6'
0' - 4" (A) - 10YR 3/3 FINE SANDY LOAM (granular, very friable)
4" - 24" (BW1) - 10YR 4/6, VERY GRAVELLY FINE SANDY LOAM (subangular blocky, very friable)
24" - 42" (BW2) - 10YR 5/4, COBBLES, VERY GRAVELLY, FINE SANDY LOAM (subangular blocky, friable)
42" - 72" (C) - 2.5 Y 5/4 COBBLES, GRAVELLY SANDY LOAM (massive, friable)
72" - 108" (C) - 2.5 Y 5/2 GRAVELLY SANDY LOAM (massive, friable)

SOIL DATA
Test Hole "3"

Grade @ T.H. = 92.6'
0' - 4" (A) - 10YR 3/3 FINE SANDY LOAM (granular, very friable)
4" - 24" (BW1) - 10YR 4/6, VERY GRAVELLY FINE SANDY LOAM (subangular blocky, very friable)
24" - 42" (BW2) - 10YR 5/4, COBBLES, VERY GRAVELLY, FINE SANDY LOAM (subangular blocky, friable)
42" - 72" (C) - 2.5 Y 5/4 COBBLES, GRAVELLY SANDY LOAM (massive, friable)
72" - 108" (C) - 2.5 Y 5/2 GRAVELLY SANDY LOAM (massive, friable)



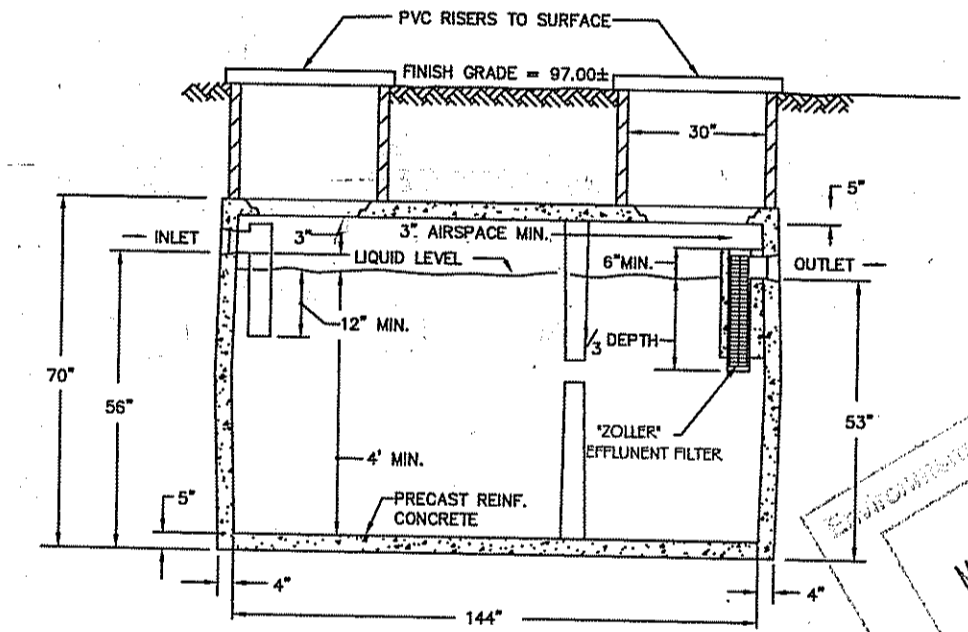
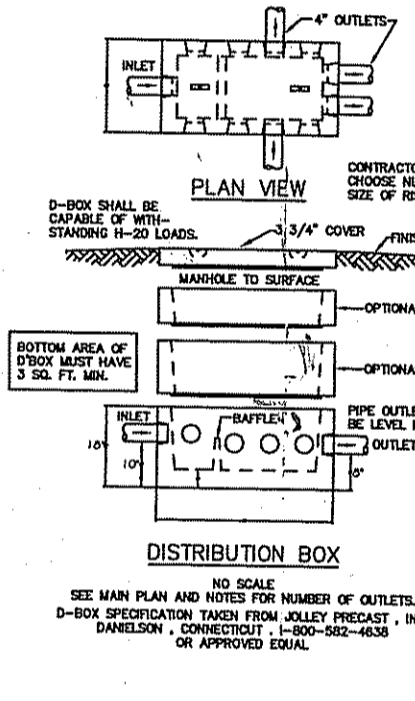
LEGEND

- 92' - PROPOSED CONTOUR
- 95' - EXISTING CONTOUR
- - - PROPERTY LINE
- TEST HOLE "A"
- WELL
- PROPOSED SILT FENCE
- STONE WALL

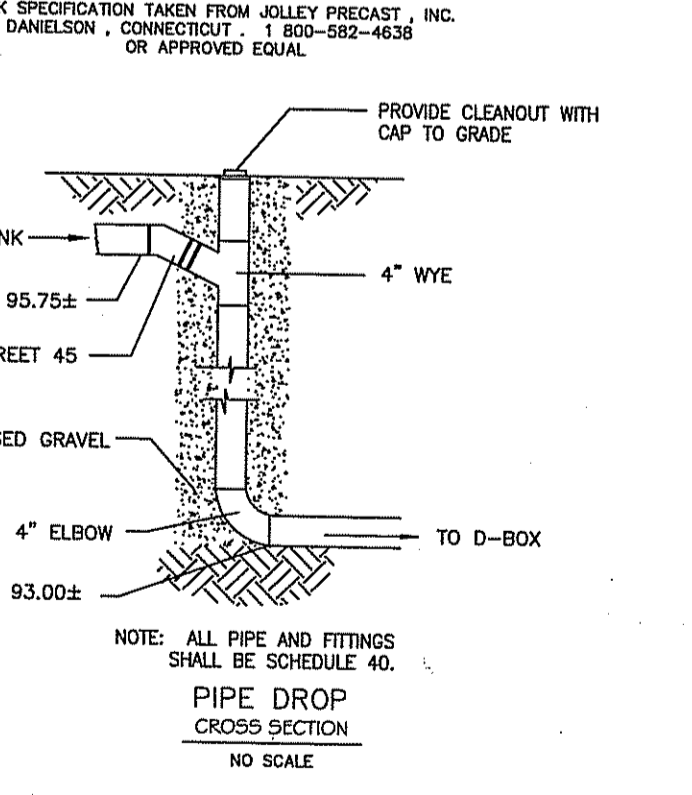
NOTES:

- 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, DATED: JUNE 2016.
- CLEAR ALL TREES AND STUMPS WITHIN 10' OF SYSTEM.
- COMPLY WITH ALL ADDITIONAL TERMS OF APPROVAL AS MAY BE REQUIRED BY RIDEM.
- BENCHMARK IS SET WITHIN 150' OF PROPOSED ISDS. (SEE SITE PLAN.)
- THERE ARE NO OTHER EXISTING OR PROPOSED PRIVATE DRINKING WATER WELLS WITHIN 200' OF THE PROPOSED OWTS EXCEPT AS SHOWN.
- THERE ARE NO KNOWN EXISTING OR PROPOSED PUBLIC WATER SUPPLY WELLS WITHIN 500' OF THE PROPOSED OWTS.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLAN ON-SITE AT ALL TIMES.
- MAINTAIN INVERT ELEVATION 91.50' TO 10' PERIMETER OF LEACH FIELD AS REQUIRED.
- PROPERTY LINE DETERMINED AS SHOWN BY OWNER AND BY FENCE LINE FIELD LOCATED.
- PROPOSED LEACHFIELD SYSTEM IS DESIGNED USING FOURTEEN (14) FLOW DIFFUSERS WITH 12" OF STONE BENEATH AND 12" OF STONE ON ALL SIDES.

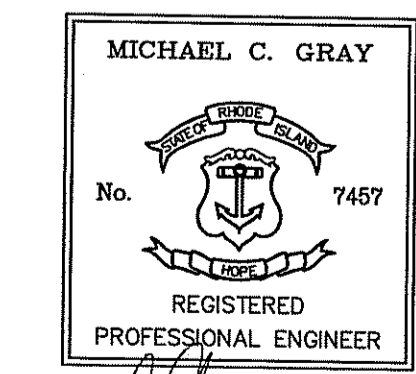
- A SEPTIC EFFLUENT FILTER IS REQUIRED AND SHALL BE PLACED IN THE SEPTIC TANK OUTLET TEE.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SURFACE WATER DRAINAGE PATTERNS AROUND LEACHFIELD AND DIRECTING AWAY FROM ADJUTING PROPERTIES.
- THE CONTRACTOR MUST FOLLOW ALL ITEMS CIRCLED IN THE LOWER RIGHT HAND AREA OF THE ISDS 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 RULE 43-5.
- 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 RULE 43-6.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO 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 SHALL PROVIDE DESIGNER WITH MATERIAL RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
- THE LOT AREA IS 2.89 ACRES.
- PLAN CREATED FROM SITE TOPOGRAPHIC SURVEY CONDUCTED AUG 2017. PROPERTY LINE SHOWN IS APPROXIMATE AND NOT INTENDED TO BE A PROPERTY LINE SURVEY.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 04 2018 FILE # 18-0097 FROM TANK
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Signature: Stephen D. Wenczek



Designers Lic. D2104



SCALE: AS SHOWN.

TITLE: **OWTS ALTERATION PLAN**
PROJECT: **HOWARD COOK
PLAT 78 LOT 10
1350 DOUGLAS PIKE
BURRILLVILLE, RI**
MICHAEL C. GRAY, PE
146 DOUGLAS HOOK ROAD
CHEPACHET, RI 02814

PROJ. NO: 17-9
DATE: SEPT. 2017
REV: JAN 2018