

- CONSTRUCTION NOTES:**
1. MAINTAIN INVERT EL. 178.5 FOR 15' AROUND SYSTEM
 2. CLEAR ALL TREES AND STUMPS WITHIN 10' OF SYSTEM
 3. NO EXISTING OR PROPOSED WELLS OR DRAINS WITHIN 200' OF PROPOSED SYSTEM OTHER THAN SPECIFIED ON PLAN.
 4. NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF THE SYSTEM
 5. INSTALL CAST IRON OR EQUAL FROM FOUNDATION TO SEPTIC TANK
 6. NO SUBSURFACE DRAINAGE TO BE INSTALLED WITHIN 25' OF SYSTEM
 7. LOAD AND GRASS SYSTEM AREA
 8. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS 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 MASSACHUSETTS, DEPARTMENT OF HEALTH TITLE-5
 9. THE LEACH FIELD AND EXTENDING 5 FEET INTO THE LEACH FIELD PERIMETER FROM THE TRENCH SIDE WALLS MUST BE STRIPPED OF TREES, TOPSOIL, UNSUBSIDIARIAL MATERIAL AND SOIL CONTAINING FINES.
 10. R.J. COHEN ENGINEERING ASSOCIATES TO BE NOTIFIED FOR ISDS INSPECTIONS.

DESIGN CRITERIA

THIS PROPOSED ISDS WILL SERVICE ONE FOUR-BEDROOM DWELLING. THE SYSTEM PROPOSED IS A TRENCH CONFIGURATION TO BE DESIGNED ON EXISTING TEST PIPES, TP-6A AND TP-6B. APPROVED WATER TABLE IS 48 INCHES. ELEVATION IN AREA OF PROPOSED LEACH FIELD IS 178.0. THEREFORE, WATER TABLE ELEVATION IS 174.0. BOTTOM OF PROPOSED SAS IS 178.0.

PERCOLATION RATE = 10 MINUTES PER INCH

$(110 \text{ GALLONS} / \text{DAY/BEDROOM}) \times (4 \text{ BEDROOMS}) = 440 \text{ GALLONS} / \text{DAY}$

DEPTH OF STONE BELOW INVERT (FT.) = 0.5

AREA ALLOWED PER LINEAR FOOT OF TRENCH (SQFT. / FT.) FOR A 36 INCH WIDE TRENCH ... 50 (SQFT. / FT.)

495 SQFT. / 50 (SQFT. / FT.) = 99 LINEAR FEET REQUIRED

1 TRENCH AT 27 FT. = 27 LINEAR FT.

3 TRENCHES AT 25 FT. = 75 LINEAR FT.

1020 LINEAR FEET PROVIDED X 50 SQ. FT. / FT. = 510 SQ. FT.

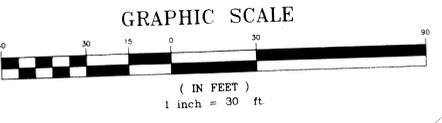
510 SQ. FT. > 495 SQ. FT. THEREFORE O.K.

DEEP OBSERVATION HOLE LOG

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL COLOR MOTTLING	OTHER
0-6	FILL				
6-18	A	SL	10YR 3/2		
18-30	B	SL	10YR 5/8		
30-70	C1	SILT LDM	2.5YR 5/3		
70-120	C2	LS	2.5YR 6/3	COMMON	PIPE SET 3 MPI #84*

DEEP OBSERVATION HOLE LOG

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL COLOR MOTTLING	OTHER
0-6	A	SL	10YR 3/2		
6-18	B	SL	10YR 5/8		
18-62	C1	SILT LDM	2.5YR 5/3		
62-113	C2	LS	2.5YR 6/3	COMMON	PIPE SET 4 MPI #82*



DEEP OBSERVATION HOLE LOG

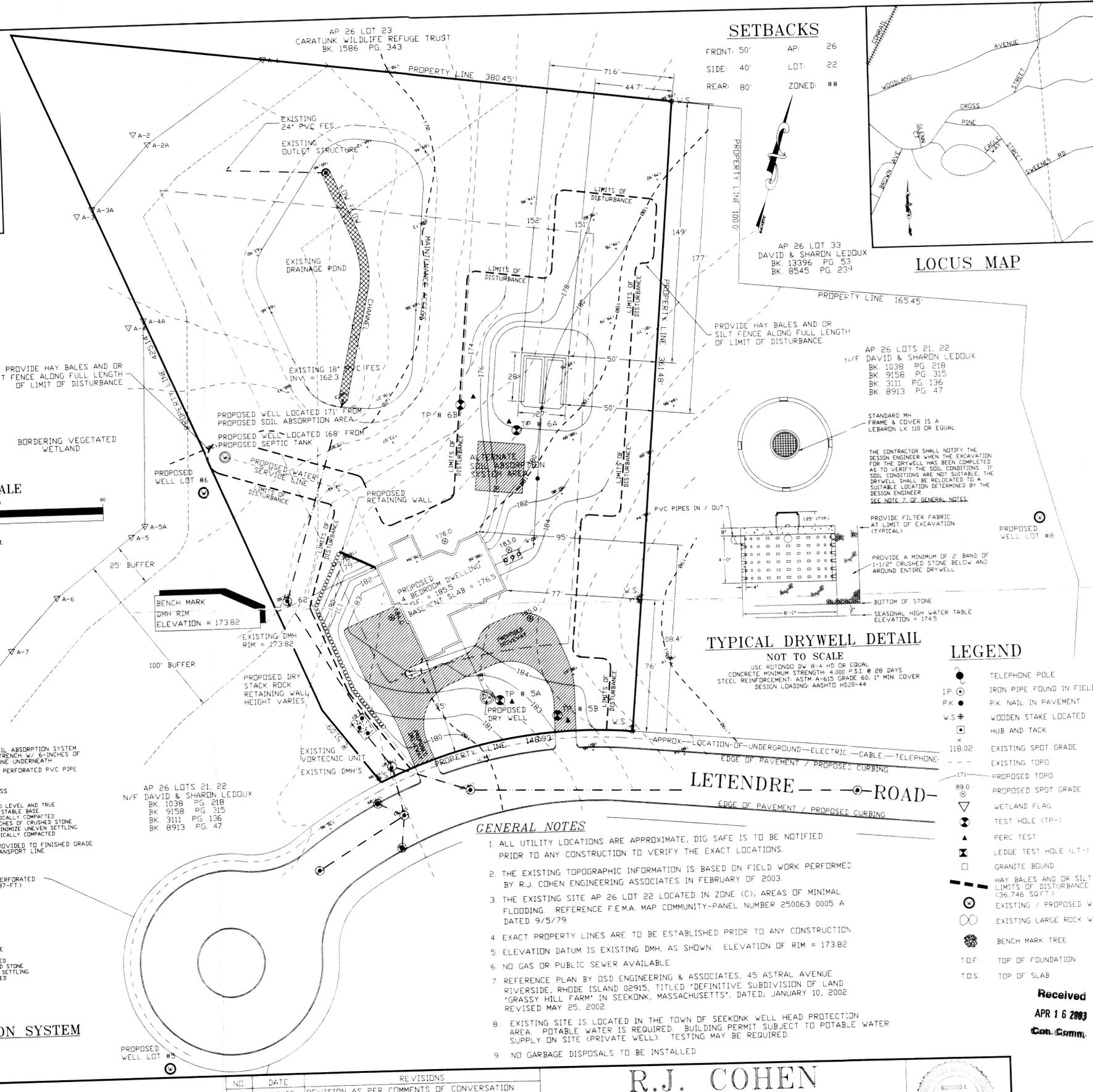
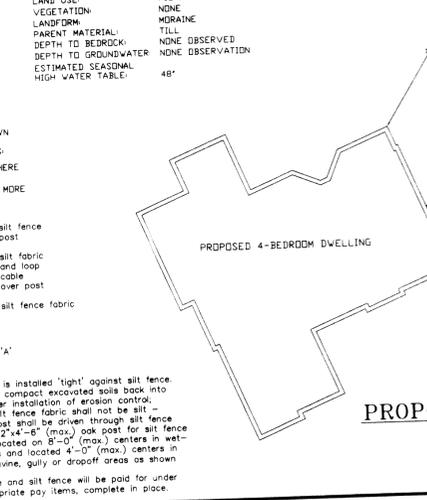
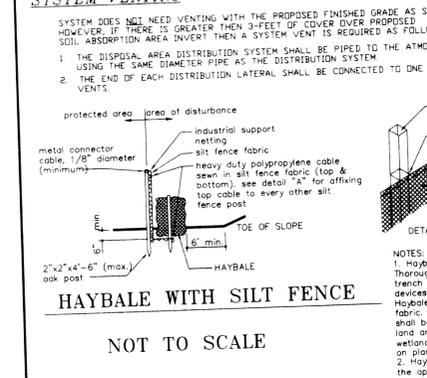
DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL COLOR MOTTLING	OTHER
0-6	A	SL	10YR 3/2		
6-24	B	SL	10YR 5/8		
24-110	C	LS	2.5YR 6/3	COMMON	PIPE SET 7 MPI #44*

DEEP OBSERVATION HOLE LOG

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL COLOR MOTTLING	OTHER
0-6	A	SL	10YR 3/2		
6-33	B	SL	10YR 5/8		
33-120	C	LS	2.5YR 6/3	COMMON	PIPE SET 12 MPI #53*

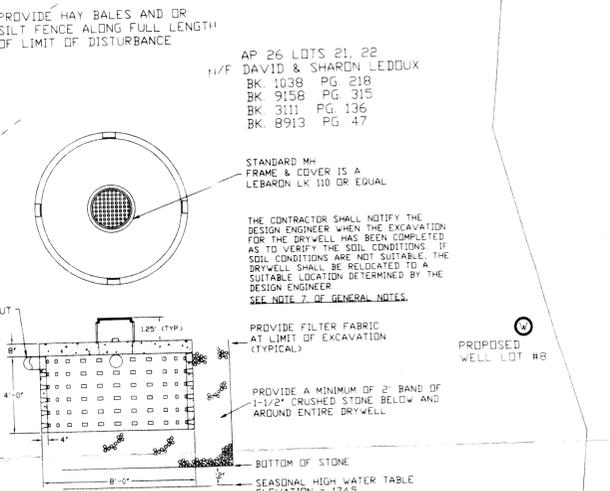
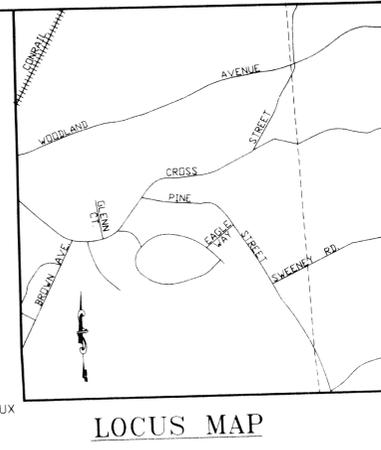
DEEP OBSERVATION HOLE LOG

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL COLOR MOTTLING	OTHER
0-6	A	SL	10YR 3/2		
6-24	B	SL	10YR 5/8		
24-110	C	LS	2.5YR 6/3	COMMON	PIPE SET 7 MPI #44*



SETBACKS

FRONT: 50' API: 26
SIDE: 40' LOT: 22
REAR: 80' ZONED: #H



- LEGEND**
- TELEPHONE POLE
 - IP ● IRON PIPE FOUND IN FIELD
 - PK ● P.K. NAIL IN PAVEMENT
 - WS ● WOODEN STAKE LOCATED
 - ⊗ HUB AND TACK
 - ⊗ 118.02 EXISTING SPOT GRADE
 - EXISTING TOP
 - - - 171- PROPOSED TOP
 - 89.0 ● PROPOSED SPOT GRADE
 - ▽ WETLAND FLAG
 - TEST HOLE (TP-)
 - ▲ PERC TEST
 - ⊗ LEDGE TEST HOLE (LT-)
 - GRANITE BOUND
 - HAY BALES AND OR SILT FENCE LIMITS OF DISTURBANCE (36,746 SQFT.)
 - EXISTING / PROPOSED WELL
 - ⊗ EXISTING LARGE ROCK WALL
 - BENCH MARK TREE
 - T.O.F. TOP OF FOUNDATION
 - T.O.S. TOP OF SLAB

- GENERAL NOTES**
1. ALL UTILITY LOCATIONS ARE APPROXIMATE, DIG SAFE IS TO BE NOTIFIED PRIOR TO ANY CONSTRUCTION TO VERIFY THE EXACT LOCATIONS.
 2. THE EXISTING TOPOGRAPHIC INFORMATION IS BASED ON FIELD WORK PERFORMED BY R.J. COHEN ENGINEERING ASSOCIATES IN FEBRUARY OF 2003.
 3. THE EXISTING SITE AP 26 LOT 22 LOCATED IN ZONE (C); AREAS OF MINIMAL FLOODING. REFERENCE F.E.M.A. MAP COMMUNITY-PANEL NUMBER 250063 0005 A DATED 9/5/79.
 4. EXACT PROPERTY LINES ARE TO BE ESTABLISHED PRIOR TO ANY CONSTRUCTION.
 5. ELEVATION DATUM IS EXISTING DMH, AS SHOWN. ELEVATION OF RIM = 173.82
 6. NO GAS OR PUBLIC SEWER AVAILABLE.
 7. REFERENCE PLAN BY OSD ENGINEERING & ASSOCIATES, 45 ASTRAL AVENUE RIVERSIDE, RHODE ISLAND 02915, TITLED "DEFINITIVE SUBDIVISION OF LAND 'GRASSY HILL FARM' IN SEEKONK, MASSACHUSETTS", DATED, JANUARY 10, 2002 REVISED MAY 25, 2002.
 8. EXISTING SITE IS LOCATED IN THE TOWN OF SEEKONK WELL HEAD PROTECTION AREA. POTABLE WATER IS REQUIRED. BUILDING PERMIT SUBJECT TO POTABLE WATER SUPPLY ON SITE (PRIVATE WELL). TESTING MAY BE REQUIRED.
 9. NO GARBAGE DISPOSALS TO BE INSTALLED.

Received
APR 16 2003
Con. Comm.

CLIENT	KEVIN & WENDY STUDLEY
PROJECT	LETENDRE RD., SEEKONK, MA
DRAWING TITLE	SOIL ABSORPTION SYSTEM

JOB NUMBER 03-02
DATE: MARCH 25, 2003
SCALE: 1" = 30'
PREPARED BY: JASON KROLL

NO.	DATE	REVISIONS
1	4/14/03	REVISION AS PER COMMENTS OF CONVERSATION COMMISSION

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