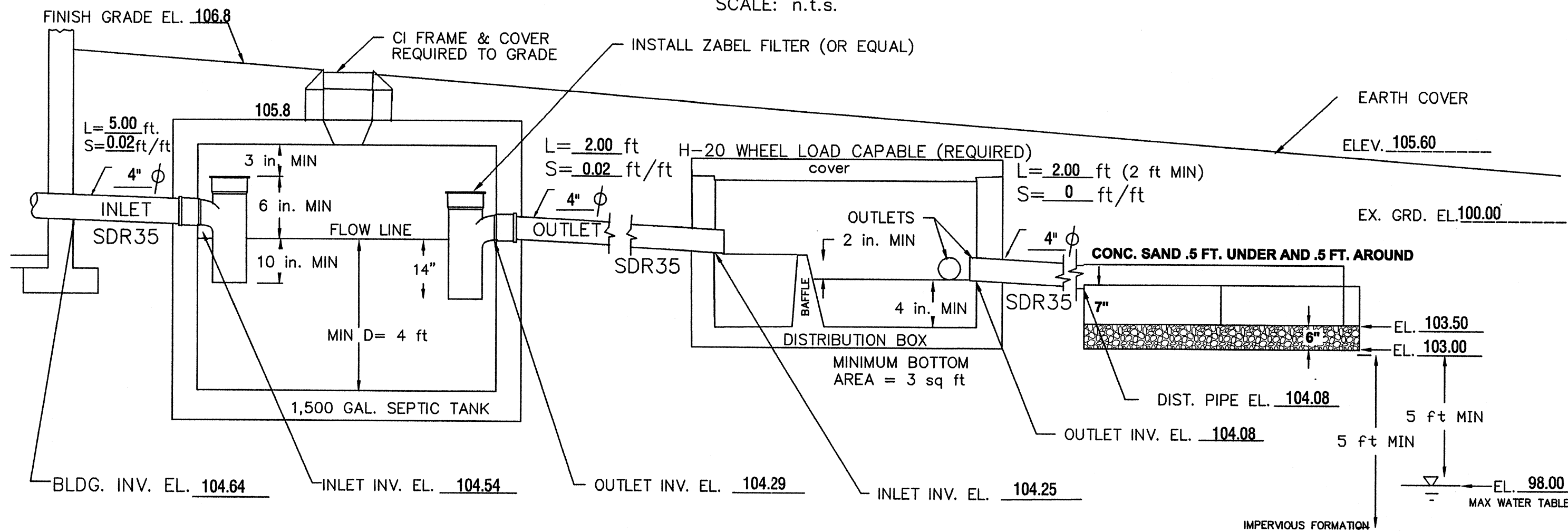


SYSTEM PROFILE

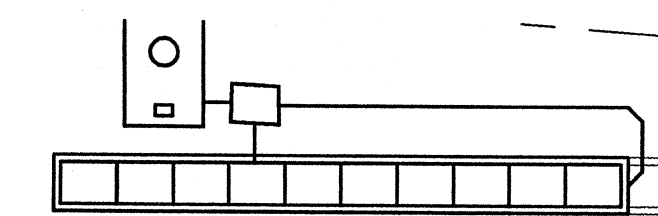
SCALE: n.t.s.



DEEP OBSERVATION HOLE LOG

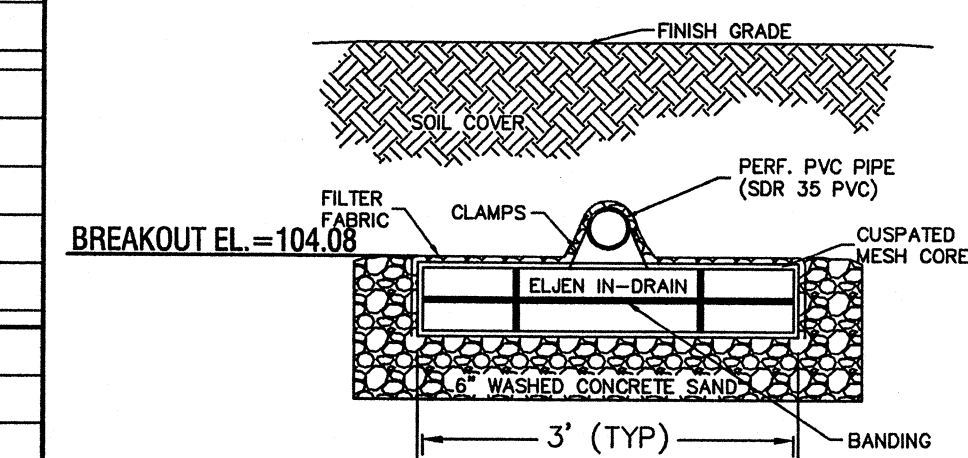
Performed by: DEAN MONSEES
Witnessed by: HAROLD CHENEVERT, JR.

DEEP HOLE #	DEPTH FROM SURFACE (Inches)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURE, STONES, CONSISTENCY, % GRAVEL)
1	0"-9"	A	SI	10YR3/1		
	9"-18"	B	LS	10YR6/8		
	18"-48"	C1	S	2.5Y6/6	10YR5/8	COARSE + CLEAN
	48"-96"	C2	S	2.5Y8/1		60% PEA STONE GRAVEL
2	0"-9"	A	SI	10YR3/1		
	9"-18"	B	LS	10YR6/8		
	18"-36"	C1	S	2.5Y6/6	10YR5/8	COARSE + CLEAN
	36"-96"	C2	S	2.5Y8/1		60% PEA STONE GRAVEL



PLAN VIEW

SCALE: n.t.s.



CROSS SECTION

N.T.S.

DISTANCES FROM:	Hole #	A	B	MOTTLING	DEPTH TO GROUND WATER
Open Water Body:		100±	100±	Abundance f: few c: common m: many	Hole #: 1 2
Possible Wet Area:		50±	50±	Size 1: fine 2: medium 3: coarse	Standing Water in the Hole: 57" 55"
Drinking Water Well:		N/A	N/A	Contrast f: faint d: distinct p: prominent	Weeping from Pit Face: 40" 38"
Drainageway (Swale at Road):		100±	100±		High Ground Water: 28" 24"
Property Line:		100±	100±		
Other (specify):		-	-		

PERCOLATION TEST

Hole #	1	2
Depth of Perc (inches):	38"	33"
Start Pre-Soak:	9:30	9:43
Time at 12":	9:45	9:58
Time at 9":	9:47	10:00
Time at 6":	9:51	10:04
Time (9"-6") (Min.):	4 MIN	4 MIN
Rate (Min./inch):	<2 MPI	<2 MPI

DESIGN COMPUTATION

DESIGN PERC. RATE	EFFLUENT LOADING RATE
<2 M.P.I.	.74 gpd/sq.ft.

APPROVED & DESIGN WATER TABLE
DEPTH: 24" APPLICATION NO.: .74

SEWAGE FLOW
200 GPD OFFICE BUILDING (MIN. REQ. 15.203)

SEPTIC TANK
CAPACITY PROVIDED: 1500 GALLONS

SIZE: 106" L x 58" W x 54" D

SEEPAGE SYSTEM
SYSTEM TYPE: ELJEN-IN DRAIN

LEACHING AREA REQ'D: 271 sq. ft.

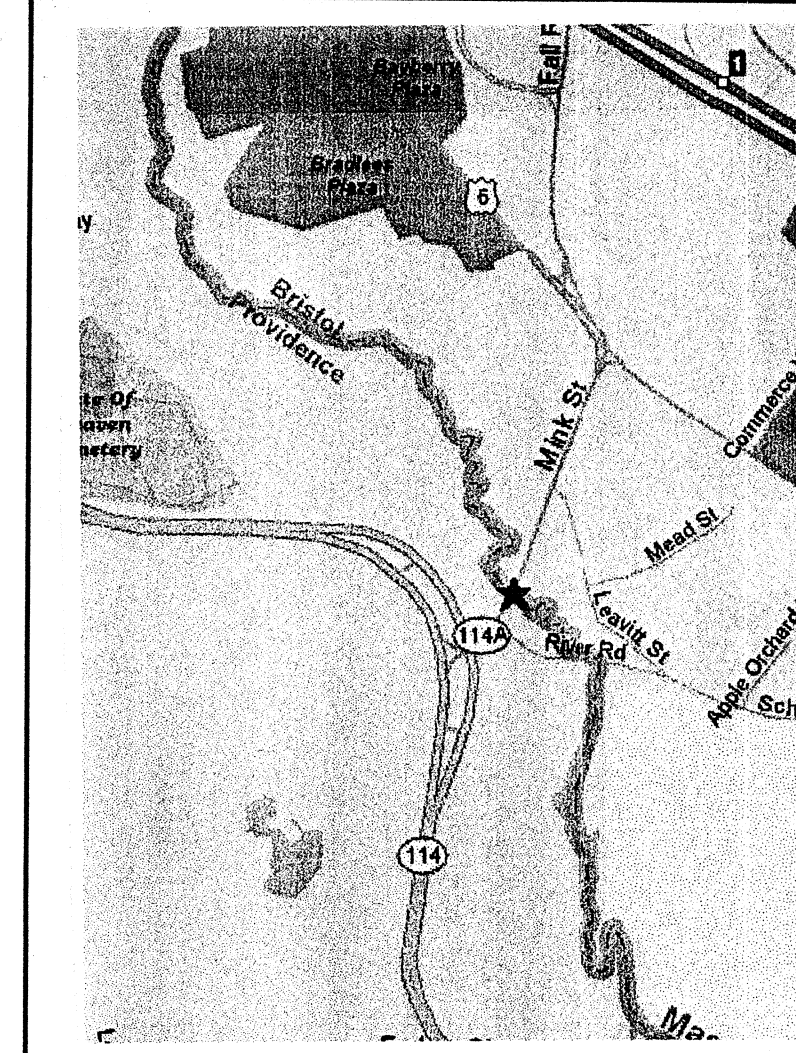
NUMBER OF TRENCHES: 1

NUMBER OF UNITS: 10

DEPTH OF SAND BELOW UNITS: 6"

WIDTH OF SAND AROUND UNITS: 6"

LEACHING AREA PROVIDED: 248 sf

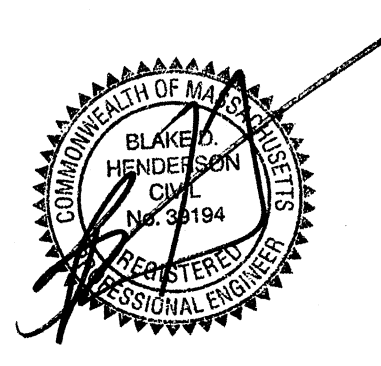


LOCUS MAP
SCALE: n.t.s.

- NOTES:**
- ALL BRUSH AND TREES WILL BE CLEARED WITHIN (10)ft OF THE SYSTEM
 - A MINIMUM ELEVATION OF 104.08 (CORRESPONDING TO THE DIST. LINE INVERT ELEVATION) SHOULD BE MAINTAINED WITHIN 15 ft. OF ISDS.
 - ALL EXISTING AND PROPOSED PRIVATE WELLS WITHIN 150 ft. OF ISDS ARE SHOWN. ALL PUBLIC WELLS EXISTING OR PROPOSED WITHIN 400' ARE SHOWN.
 - THE AREA WITHIN (5)ft OF THE SYSTEM WILL BE STRIPPED OF TOPSOIL AND SUBSOIL AND REPLACED WITH FILL IN ACCORDANCE WITH SPECIFICATION 15.255.3. TO EL. 99.25. ADD ISDS GRAVEL TO EL. 103.00 AND REMOVE ANY & ALL DELETERIOUS MATERIALS.
 - NO DRAINS OR PRESSURE WATER SUPPLY LINE EXIST OR ARE TO BE CONSTRUCTED WITHIN 25 ft. OF THE TRENCH, TANK AND 'D'-BOX. ALL KNOWN ISDS WITHIN 150 ft. OF EXISTING OR PROPOSED WELL ARE SHOWN.
 - THE SYSTEM FOR THE SUBSURFACE DISPOSAL OF SANITARY SEWAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE COMMONWEALTH OF MASSACHUSETTS, DEPARTMENT OF ENVIRONMENTAL PROTECTION, "REGULATION FILING AND PUBLICATION (310 CMR 15.00)," AND LOCAL STANDARDS.
 - THE DESIGN INTENT IS TO MEET THE STATE STANDARDS. THE PREPARATION OF THIS PLAN DOES NOT GUARANTEE THAT THE SYSTEM WILL BE INSTALLED AS DESIGNED NOR DOES THIS PLAN GUARANTEE THE OPERATION OF THE SYSTEM
 - DESIGN BASED ON DEEP OBSERVATION HOLE AND PERCOLATION TESTING BY OTHERS. NE&C ASSUMES NO RESPONSIBILITY AS TO THEIR ACCURACY OR AUTHENTICITY.
 - BOYANCE FORCE CALCULATIONS WERE NOT PERFORMED AS PART OF THE SEPTIC TANK DESIGN.
 - UNLESS OTHERWISE NOTED, ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO TITLE V OF THE STATE OF ENVIRONMENTAL CODA AND TOWN OF SEEKONK REGULATIONS.
 - GROUT TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATER TIGHT SEAL.
 - ALL SHIPLAP JOINTS IN SEPTIC TANK SHALL BE SEALED WITH NEOPRENE GASKETS OR ASPHALT CEMENT TO PROVIDE A WATER TIGHT SEAL.
 - PRECAST SEPTIC TANK, DISTRIBUTION BOX AND LEACHING FACILITY TO WITHSTAND H-10 LOADING UNLESS UNDER PAVEMENT, DRIVES OR TRAVELED WAYS WHEREIN H-20 LOADING SHALL APPLY.
 - ALL 4" PVC PIPES IN THE SYSTEM SHALL BE SCHEDULE 40.
 - WASHED CRUSHED STONE SHALL BE FREE OF ALL FINES.
 - AT ALL POINTS OF INTERSECTION OF WATER LINES AND SEWER LINES, BOTH PIPES SHALL BE CONSTRUCTED OF CLASS 150 PRESSURE PIPE AND ARE TO BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS.
 - SEPTIC TANK, DISTRIBUTION BOX, ETC. SHALL BE MANUFACTURED BY ROTUNDO OR AN EQUIVALENT MANUFACTURER.
 - EXCAVATE ALL UNSUITABLE MATERIAL IN LEACHING AREA AND BACKFILL WITH MATERIAL AS DESCRIBED ON PLAN.
 - HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE LIMITS OF THE SEWAGE DISPOSAL SYSTEM DURING THE COURSE OF INSTALLATION.
 - NO FIELD MODIFICATIONS ARE TO BE MADE WITHOUT WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND/OR THE LOCAL OFFICIAL.
 - THIS SYSTEM SHALL BE INSPECTED AS REQUIRED BY TITLE V.
 - A CERTIFICATE OF COMPLETENESS AS REQUIRED BY TITLE V AND AN AS-BUILT PLAN OF THE SYSTEM MUST BE OBTAINED BY THE CONTRACTOR UPON COMPLETION OF THE CONSTRUCTION.
 - THIS SYSTEM IS NOT DESIGNED FOR A GARBAGE DISPOSAL.

SEWAGE DISPOSAL SYSTEM

for
MR. JOE VIEIRA "REDESIGN"
MINK STREET
A.P. 8, LOT 23
SEEKONK, MASSACHUSETTS
69-509
DATE: MAY 2006
P:\Projects\2004\04259.0 Vieira - Mink Street\Current\04259.1-may-06.dwg



NORTHEAST ENGINEERS & CONSULTANTS, INC.

CIVIL
ENVIRONMENTAL
SURVEYING
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MARINE

A KNOWLEDGE CORPORATION

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REQUESTED VARIANCES:

- 15.211 - THE SEPTIC TANK SHOULD MAINTAIN 10'-FT OF SEPARATION FROM A SLAB FOUNDATION. A VARIANCE IS REQUESTED TO REDUCE THE SEPARATION TO 5'-FT.
- 15.240 - THE MINIMUM ELJEN IN-DRAIN LEACHFIELD SIZE BASED ON THE MINIMUM REQUIRED FLOW (200GPD) IS 271 SQ.FT. DUE TO THE PROXIMITY OF THE WETLANDS, A REDUCTION OF ONE ELJEN UNIT IS REQUESTED WHICH WOULD REDUCE THE PROVIDED LEACHFIELD AREA TO 248 SQ.FT.
- 15.211 - DOWNHILL SLOPE (4) - A 15-FT FILL PERIMETER IS REQUIRED AROUND THE LEACHFIELD THAT CORRESPONDS TO THE INVERT OF THE LEACHFIELD. BASED ON THE WETLANDS AND ACCESS ROAD, THE FILL PERIMETER IS 9'-FT± ALONG THE ACCESS DRIVE.

SCALE: 1"=20'

LEGEND

---	PROPERTY LINE
---	ABUTTERS' LINE
---	EXISTING CONTOURS
---	EXISTING STREAM
---	EXISTING SILT FENCE
---	EXISTING GUARD RAIL
A67	EXISTING WETLAND FLAG
○	EXISTING UTILITY POLE
●	EXISTING GUY WIRE
⊙	TEST PIT
---	PROPOSED CONTOUR
---	PROPOSED WATER LINE

REFERENCE:

1. PROPERTY LINES AND NORTH ARROW TAKEN FROM PLAN TITLED "PARKING PLAN FOR THE PROPOSED SELF STORAGE FACILITY FOR THE PROPERTY LOCATED ON MINK STREET SEEKONK, MA A.P. 8, LOT 23," BY GORODETSKY ENGINEERING, LLC, DATED MAY 21, 2004.

PROJECT NOTES:

- TOPOGRAPHIC SURVEY WAS PERFORMED BY NE&C ON AN ASSUMED DATUM.
- PROPERTY LINES SHOWN ON THIS PLAN ARE NOT THE RESULT OF A CLASS I SURVEY BY NE&C THEY WERE TAKEN FROM PLAN REFERENCED ABOVE.

