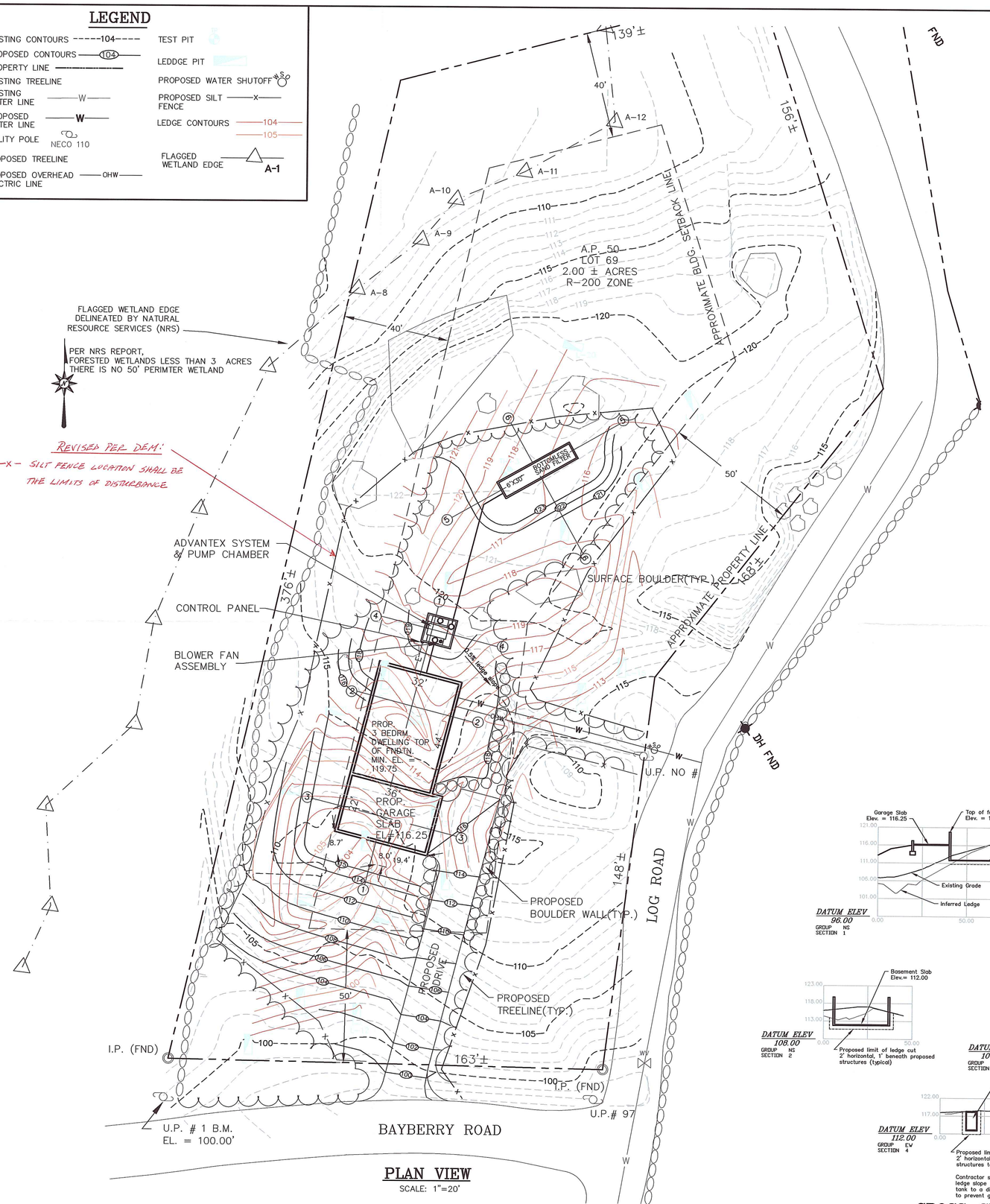
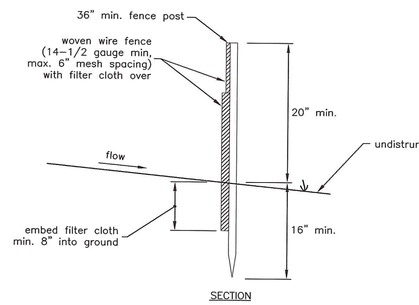
LEGEND

- EXISTING CONTOURS -----104----
- PROPOSED CONTOURS ——(104)——
- PROPERTY LINE ————————
- EXISTING TREELINE
- EXISTING WATER LINE ——W——
- PROPOSED WATER LINE ——W——
- UTILITY POLE (NECO 110)
- PROPOSED TREELINE
- PROPOSED OVERHEAD ELECTRIC LINE ——OHW——
- TEST PIT
- LEDGE PIT
- PROPOSED WATER SHUTOFF WSO
- PROPOSED SILT FENCE ——x——
- LEDGE CONTOURS ——104—— ——105——
- FLAGGED WETLAND EDGE A-1



PLAN VIEW

SCALE: 1"=20'



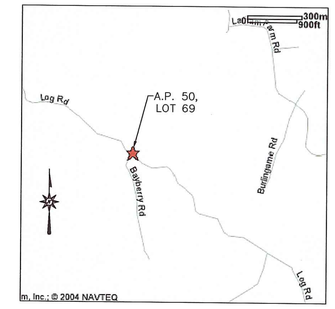
SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

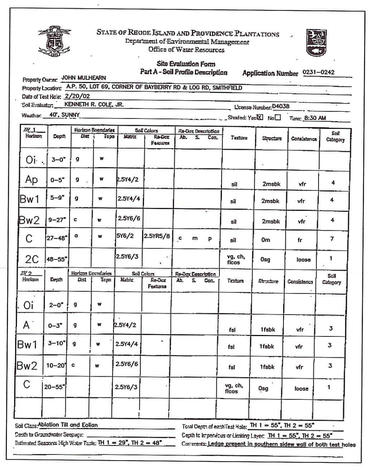
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

SILT FENCE DETAIL

N.T.S.



LOCATION MAP



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources

Site Evaluation Form
Part A - Soil Profile Description Application Number 0231-0242

Property Owner: JOHN MULHEARN
Property Location: A.P. 50, LOT 65, CORNER OF BAYBERRY RD & LOG RD, SMITHFIELD
Date of Test Hole: 2/20/02
Soil Evaluator: KENNETH R. COLE, JR. License Number 04038
Weather: 40°, SUNNY Shaded: Yes☒ No☐ Time: 8:30 AM

Pit 1 Horizon	Depth	Horizon Boundaries Dist	Topo	Soil Colors Matrix	Re-Dox Features	Re-Dox Description Ab. & Con.	Texture	Structure	Consistence	Soil Category
Oi	3–0"	g	w							
Ap	0–5"	g	w	2.5Y4/2			sil	2msbk	vfr	4
Bw1	5–9"	g	w	2.5Y4/4			sil	2msbk	vfr	4
Bw2	9–27"	c	w	2.5Y6/6			sil	2msbk	vfr	4
C	27–48"	g	w	5Y8/2	2.5Y5/8	c m p	sil	0m	fr	7
2C	48–55"			2.5Y6/3			vg. ch. flcos	0sg	loose	1
Pit 2 Horizon	Depth	Horizon Boundaries Dist	Topo	Soil Colors Matrix	Re-Dox Features	Re-Dox Description Ab. & Con.	Texture	Structure	Consistence	Soil Category
Oi	2–0"	g	w							
A	0–3"	g	w	2.5Y4/2			fsl	1fabk	vfr	3
Bw1	3–10"	g	w	2.5Y4/4			fsl	1fabk	vfr	3
Bw2	10–20"	c	w	2.5Y6/6			fsl	1fabk	vfr	3
C	20–55"			2.5Y6/3			vg. ch. flcos	0sg	loose	1

Soil Class: Ablation Till and Eolian
Depth to Groundwater Seepage:
Estimated Seasonal High Water Table: TH 1 = 29", TH 2 = 48"
Total Depth of each Test Hole: TH 1 = 55", TH 2 = 55"
Depth to impervious or Limiting Layer: TH 1 = 55", TH 2 = 55"
Comments: Ledge present in southern sides wall of both test holes

SOIL PROFILE #1

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources

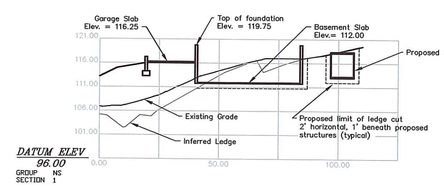
Site Evaluation Form
Part A - Soil Profile Description Application Number 0231-0242

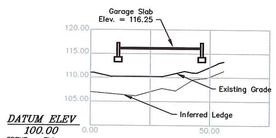
Property Owner: JOHN MULHEARN
Property Location: A.P. 50, LOT 69, CORNER OF BAYBERRY RD & LOG RD, SMITHFIELD
Date of Test Hole: 12/8/05
Soil Evaluator: KENNETH R. COLE, JR. License Number 04038
Weather: 35°, SUNNY Shaded: Yes☒ No☐ Time: 9:00 AM

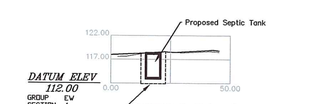
Pit 3 Horizon	Depth	Horizon Boundaries Dist	Topo	Soil Colors Matrix	Re-Dox Features	Re-Dox Description Ab. & Con.	Texture	Structure	Consistence	Soil Category
Oi	4–0"	g	w							
Ap	0–5"	g	w	2.5Y4/2			sil	2msbk	vfr	4
Bw1	5–11"	g	w	2.5Y4/4			sil	2msbk	vfr	4
Bw2	11–28"	c	w	2.5Y6/6			sil	2msbk	vfr	4
C	28–48"	g	w	5Y6/2	2.5Y5/8	c m p	sil	0m	fr	7
2C	48–54"			2.5Y6/3			vg. ch. flcos	0sg	loose	1
Pit Horizon	Depth	Horizon Boundaries Dist	Topo	Soil Colors Matrix	Re-Dox Features	Re-Dox Description Ab. & Con.	Texture	Structure	Consistence	Soil Category

Soil Class: Ablation Till and Eolian
Depth to Groundwater Seepage:
Estimated Seasonal High Water Table: TH 3 = 28"
Total Depth of each Test Hole: TH 3 = 54"
Depth to impervious or Limiting Layer: TH 3 = 54"
Comments: Ledge present at bottom of test holes

SOIL PROFILE #2







Contractor shall cut a 2' wide minimum trench in ledge slope from bottom edge of proposed septic tank to a distance of 40' at 0.5% slope. Trench to prevent ground water table pooling effect around

CROSS-SECTIONS

SCALE: Horizontal – 1"=30' ; Vertical – 1"=15'

LEDGE HOLE #	LENGTH & ORIENTATION	DEPTH TO LEDGE FROM EXISTING GRADE
L–1	16' – NORTH/SOUTH	N = 20", S = 48"
L–2	12' – EAST/WEST	W = 0", CTR. = 30", E = 6"
L–3	10' – E/W	W = 24", E = 12"
L–4	8' – N/S	36"
L–5	8' – E/W	42"
L–6	8' – N/S	48"
L–7	10' – E/W	60"
L–8	8' – N/S	36"
L–9	8' – E/W	36"
L–10	8' – N/S	30"

*LEDGE HOLES PERFROMED BY KEN COLE, CLASS IV #04038, & WITNESSED BY ALAN PITTMAN OF RIDEM ON 9/16/04.

LEDGE PROBES

LEDGE HOLE #	LENGTH & ORIENTATION	DEPTH TO LEDGE FROM EXISTING GRADE
L–11	16' – NORTH/SOUTH	30"
L–12	12' – EAST/WEST	36"
L–13	10' – E/W	42"
L–14	8' – N/S	42"
L–15	8' – E/W	44"
L–16	8' – N/S	42"
L–17	10' – N/S	48"
L–18	8' – N/S	52"
L–19	8' – E/W	36"
L–20	8' – N/S	40"

*LEDGE HOLES PERFROMED BY WILLIAM ANDERSON, CLASS III #03001 ON 12/8/05.

ADDITIONAL LEDGE PROBES

NUMBER	DESCRIPTION	CHECKED BY	DATE	MADE BY
04	Added fwetland edge location per RIDEM comments	wma	10/06	wma
03	Redesign ISDS based on RIDEM Variance Board comments 6/29/06	wma	7/06	wma
02	Redesign ISDS based on new ledge information	wma	12/05	wma
01	Modified ISDS per RIDEM comments	wma	4/05	wma

REVISIONS

RECEIVED
MAR 13 2007
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

WILLIAM M. ANDERSON
No. 3423
REGISTERED PROFESSIONAL ENGINEER

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN LETTER OF APPROVAL
DATED MAY 4 2007
FILE # 07-0010
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT GRADE ON SITE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED TO LEDGE AT ELEVATIONS
DATED MAY 4 2007
SEE LETTER OF SAME DATE.
07-0010
W. Joseph Casey

Anderson Engineering, LLC
CIVIL ... STRUCTURAL ... LAND DEVELOPMENT
WILLIAM M. ANDERSON, P.E.
REGISTERED PROFESSIONAL ENGINEER
190 Cedar Avenue East Greenwich, RI 02818 Voice: (401) 265-6169 / Fax: (401) 884-2380

NEW INDIVIDUAL SEWAGE DISPOSAL SYSTEM + PRELIMINARY WETLANDS DETERMINATION FOR JOHN MULHEARN

A.P. 50 , LOT 69, BAYBERRY ROAD SMITHFIELD, RHODE ISLAND

Proj. Mgr.: WMA
Designed : KRC
Drawn : KRC
Checked : WMA
Scale : 1"=20'
Date : NOV., 2004

Proj. No. 2004-35

Dwg. No. 1

Sheet 1 of 2