called 9/8 - 1:50

TOWN COPY

FORMS

# REPLACEMENT SYSTEM VARIANCE REQUEST

$120.00

## THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request an HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1906.0)
2. There will be no change in use of the structure except as authorized for one-time exempted expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

## GENERAL INFORMATION

Town of AUGUSTA

Permit No. 0209 Date Permit Issued 9/8/08

Property Owner's Name: KLAFT, RICK Tel. No.:

System's Location: 76B WEST RIVER ROAD

Property Owner's Address: AUGUSTA, ME 04330

(if different from above)

## SPECIFIC INSTRUCTIONS TO THE:

**LOCAL PLUMBING INSPECTOR (LPI):**
If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

**SITE EVALUATOR:**
If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

**PROPERTY OWNER:**
If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

## PROPERTY OWNER

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

Mike Klaft
SIGNATURE OF OWNER

9/11/2008
DATE

## LOCAL PLUMBING INSPECTOR

I, Mary R. Smith, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

☐ a. (☑ approve, ☐ disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the applicant. –OR–

☐ b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (☐ recommend, ☐ do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, the reasons shall be stated in Comments Section below as to why the proposed replacement system is not being recommended.

Comments:

Mary R. Smith
LPI SIGNATURE

9/8/08
DATE

HHE-204 Rev 08/05

**FORMS**

Replacement System Variance Request

| VARIANCE CATEGORY | LIMIT OF LPI'S APPROVAL AUTHORITY | | | | | | VARIANCE REQUESTED TO: | |
|---|---|---|---|---|---|---|---|---|
| SOILS | | | | | | | | |
| Soil Profile | Ground Water Table | | | to 7" | | | 3 inches | |
| Soil Condition | Restrictive Layer | | | to 7" | | | inches | |
| from HHE-200 | Bedrock | | | to 12" | | | inches | |
| SETBACK DISTANCES (in feet) | Disposal Fields | | | Septic Tanks | | | Disposal Fields | Septic Tanks |
| From | Less than 1000 gpd | 1000 to 2000 gpd | Over 2000 gpd | Less than 1000 gpd | 1000 to 2000 gpd | Over 2000 gpd | To | To |
| Wells with water usage of 2000 or more gpd or public water system wells | 300 ft | 300 ft | 300 ft | 150 ft | 150 ft | 150 ft | | |
| Owner's wells | 100 down to 60 ft [a] | 200 down to 100 ft | 300 down to 150 ft | 100 down to 50 ft [b] | 100 down to 50 ft | 100 down to 50 ft | | |
| Neighbor's wells | 100 down to 60 ft [f] | 200 down to 120 ft [f] | 300 down to 180 ft [f] | 100 down to 50 ft [f] | 100 down to 75 ft [f] | 100 down to 75 ft [f] | | |
| Water supply line | 10 ft | 20 ft | 25 ft [-h] | 10 ft | 10 ft | 10 ft [h] | | |
| Water course, major - | 100 down to 60 ft [d] | 200 down to 120 ft [d] | 300 down to 180 ft [d] | 100 down to 50 ft [b] | 100 down to 50 ft | 100 down to 50 ft | | |
| Water course, minor | 50 down to 25 ft [e] | 100 down to 50 ft [e] | 150 down to 75 ft [e] | 50 down to 25 ft [e] | 50 down to 25 ft [e] | 50 down to 25 ft [e] | | |
| Drainage ditches | 25 down to 12 ft | 50 down to 25 ft | 75 down to 35 ft | 25 down to 12 ft | 25 down to 12 ft | 25 down to 12 ft | | |
| Edge of fill extension – Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams | 25 ft [e] | 25 ft [e] | 25 ft [e] | 25 ft [e] | 25 ft [e] | 25 ft [e] | | |
| Slopes greater than 3:1 | 10 ft [g] | 18 ft [g] | 25 ft [g] | N/A | N/A | N/A | | |
| No full basement [e.g. slab, frost wall, columns] | 15 down to 7 ft | 30 down to 15 ft | 40 down to 20 ft | 8 down to 5 ft | 14 down to 7 ft | 20 down to 10 ft | | |
| Full basement [below grade foundation] | 20 down to 10 ft | 30 down to 15 ft | 40 down to 20 ft | 8 down to 5 ft | 14 down to 7 ft | 20 down to 10 ft | | |
| Property lines | 10 down to 5 ft [c] | 18 down to 9 ft [c] | 20 down to 10 ft [c] | 10 down to 4 ft [c] | 15 down to 7 ft [c] | 20 down to 10 ft [c] | | |
| Burial sites or graveyards, measured from the down toe of the fill extension | 25 ft | 25 ft | 25 ft | 25 ft | 25 ft | 25 ft | | |

OTHER

1. Fill extension Grade - to 3:1

2. _____

3. _____

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2.

[b.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction .

[c.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[g.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.

[h.] See Section 1402.8 for special procedures when these minimum setbacks cannot be achieved.

_____ SITE EVALUATOR'S SIGNATURE

_____ DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (☐ does ☐ does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

_____ SIGNATURE OF THE DEPARTMENT

_____ DATE

Page 2, HHE-204 Rev 08/05

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 FAX (207) 287-3165

07084

## PROPERTY LOCATION

| | |
|---|---|
| City, Town, Plantation | AUGUSTA |
| Street or Road | 968 WEST RIVER ROAD (ROUTE 104) |
| Subdivision, Lot # | |

>> Caution: Permit Required – Attach in Space Below <<

AUGUSTA
Date Permit Issued: 9/18/08
Local Plumbing Inspector Signature

PERMIT # 6209 TOWN COPY
$ 120.00 ☐ If Double Fee Charged
L.P.I. # 850

## OWNER/APPLICANT INFORMATION

Name (last, first, MI): KLAFT, RICK ☒ Owner ☐ Applicant

| | |
|---|---|
| Mailing Address of ☒ Owner ☐ Applicant | 968 WEST RIVER ROAD<br>AUGUSTA, ME, 04330 |
| Daytime Tel. # | |

Municipal Tax Map # 2 Lot # 65

### Owner or Applicant Statement

I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.

Signature of Owner or Applicant — Date: 9-4-08

### Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with Subsurface Wastewater Disposal Rules Application.

Local Plumbing Inspector Signature — (1st Date Approved) — (2nd Date Approved) 10/2/08

## PERMIT INFORMATION

### TYPE OF APPLICATION

1. ☐ First Time System
2. ☒ Replacement System
   Type Replaced: TRENCH
   Year Installed: UNKNOWN
3. ☐ Expanded System
   a. ☐ Minor Expansion
   b. ☐ Major Expansion
4. ☐ Experimental System
5. ☐ Seasonal Conversion

### SIZE OF PROPERTY

☐ sq. ft.
3± ☒ acres

### SHORELAND ZONING

☐ Yes ☒ No

### THIS APPLICATION REQUIRES

1. ☐ No Rule Variance
2. ☐ First Time System Variance
   a. ☐ Local Plumbing Inspector Approval
   b. ☐ State & Local Plumbing Inspector Approval
3. ☒ Replacement System Variance
   a. ☒ Local Plumbing Inspector Approval
   b. ☐ State & Local Plumbing Inspector Approval
4. ☐ Minimum Lot Size Variance
5. ☐ Seasonal Conversion Permit

### DISPOSAL SYSTEM TO SERVE

1. ☒ Single Family Dwelling Unit, No. of Bedrooms: 2
2. ☐ Multiple Family Dwelling , No. of Units:
3. ☐ Other: (specify)

Current Use: ☐ Seasonal ☐ Year Round ☐ Undeveloped

### DISPOSAL SYSTEM COMPONENT(S)

1. ☒ Complete Non-engineered System
2. ☐ Primitive System (graywater & alt. toilet)
3. ☐ Alternative Toilet, specify:
4. ☐ Non-engineered Treatment Tank (only)
5. ☐ Holding Tank, _____ gallons
6. ☐ Non-engineered Disposal Field (only)
7. ☐ Separated Laundry System
8. ☐ Complete Engineered System(2000 gpd or more)
9. ☐ Engineered Treatment Tank (only)
10. ☐ Engineered Disposal Field (only)
11. ☐ Pre-treatment, specify:
12. ☐ Miscellaneous components

### TYPE OF WATER SUPPLY

1. ☒ Drilled Well 2. ☐ Dug Well 3. ☐ Private
4. ☐ Public 5. ☐ Other:

## DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

### TREATMENT TANK

1. ☒ Concrete
   a. ☒ Regular
   b. ☐ Low Profile
   c. ☐ With in-tank lift station
2. ☐ Plastic
3. ☐ Other:

CAPACITY 1000 gallons

### DISPOSAL FIELD TYPE & SIZE

1. ☐ Stone Bed 2. ☐ Stone Trench
3. ☒ Proprietary Device 24 HIGH CAPACITY BIODIFFUSERS
   a. ☐ Cluster Array c. ☒ Linear
   b. ☒ Regular load d. ☐ H-20 load
4. ☐ Other:

SIZE 150 ☐ sq. ft. ☒ ln. ft.

### GARBAGE DISPOSAL UNIT

1. ☒ No 3. ☐ Maybe
2. ☐ Yes >> Specify one below:
   a. ☐ Multi-compartment Tank
   b. ☐ ____ Tanks in Series
   c. ☐ Increase in Tank Capacity
   d. ☐ Filter on Tank Outlet

### DESIGN FLOW

160 gallons per day

BASED ON
1. ☒ Table 501.1 (dwelling unit(s)
2. ☐ Table 501.2 (other facilities)
   SHOW CALCULATIONS for other facilities

### SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN
9 / D / 3

at Observation Hole # TP
Depth 8 "
OF MOST LIMITING SOIL FACTOR

### DISPOSAL FIELD SIZING

1. ☐ Small – 2.0 sq. ft./gpd
2. ☐ Medium – 2.6 sq. ft./gpd
3. ☐ Medium-Large – 3.3 sq. ft./gpd
4. ☐ Large – 4.1 sq. ft./gpd
5. ☒ Extra Large – 5.0 sq. ft./gpd

### PUMPING

1. ☐ Not Required
2. ☒ May be Required
3. ☐ Required

Specify only for engineered or experimental systems:
DOSE _____ gallons

3. ☐ Section 503.0 (meter readings)
   ATTACH WATER-METER RECORDS

Lat. 44° d 22.615 m ____ s N
Lon. 69° d 44.466 m ____ s W
If g.p.s. state margin of error ____

## SITE EVALUATOR STATEMENT

I certify that on 9/6/07 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241)

**Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.**

| Site Evaluator Signature | SE# | Date |
|---|---|---|
| | 132 | 9/12/07 |

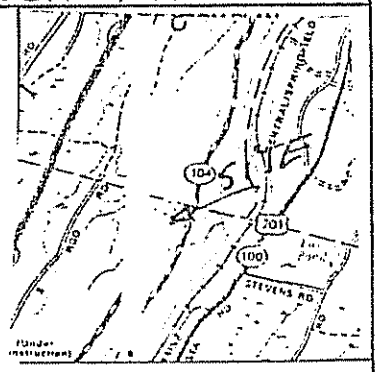
| Site Evaluator Name Printed | Telephone # | E-mail Address |
|---|---|---|
| TERRY ADAMS | (207) 512-5125 | adamster@ctel.net |

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-3165

| Town, City, Plantation | Street, Road, Subdivision | Owner's Name |
|---|---|---|
| AUGUSTA | WEST RIVER ROAD | RICK KLAFT |

SITE PLAN Scale 1" = 40 Ft.




(SEE ATTACHED SITE PLAN)

SEE "NOTES FROM THE SITE EVALUATOR"

## SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TP ☒ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | Texture | Consistency | Color | Mottling |
|---|---|---|---|---|
| 0–10 | LOAM | FRIABLE | BROWN | NONE EVIDENT |
| 10–20 | SILT LOAM | VERY FIRM | OLIVE | EVIDENT |
| 20–50 | DEPTH OBSERVED | | | |

| Soil Classification | Slope | Limiting Factor | |
|---|---|---|---|
| Profile: 9 / Condition: D | 2-4% | 8 " | ☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth |

Observation Hole _____ ☐ Test Pit ☐ Boring

_____ " Depth of Organic Horizon Above Mineral Soil

| Depth Below Mineral Soil Surface (inches) | Texture | Consistency | Color | Mottling |
|---|---|---|---|---|
| 0–50 | | | | |

| Soil Classification | Slope | Limiting Factor | |
|---|---|---|---|
| Profile / Condition | % | " | ☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth |

Tim Cohen — Site Evaluator's Signature

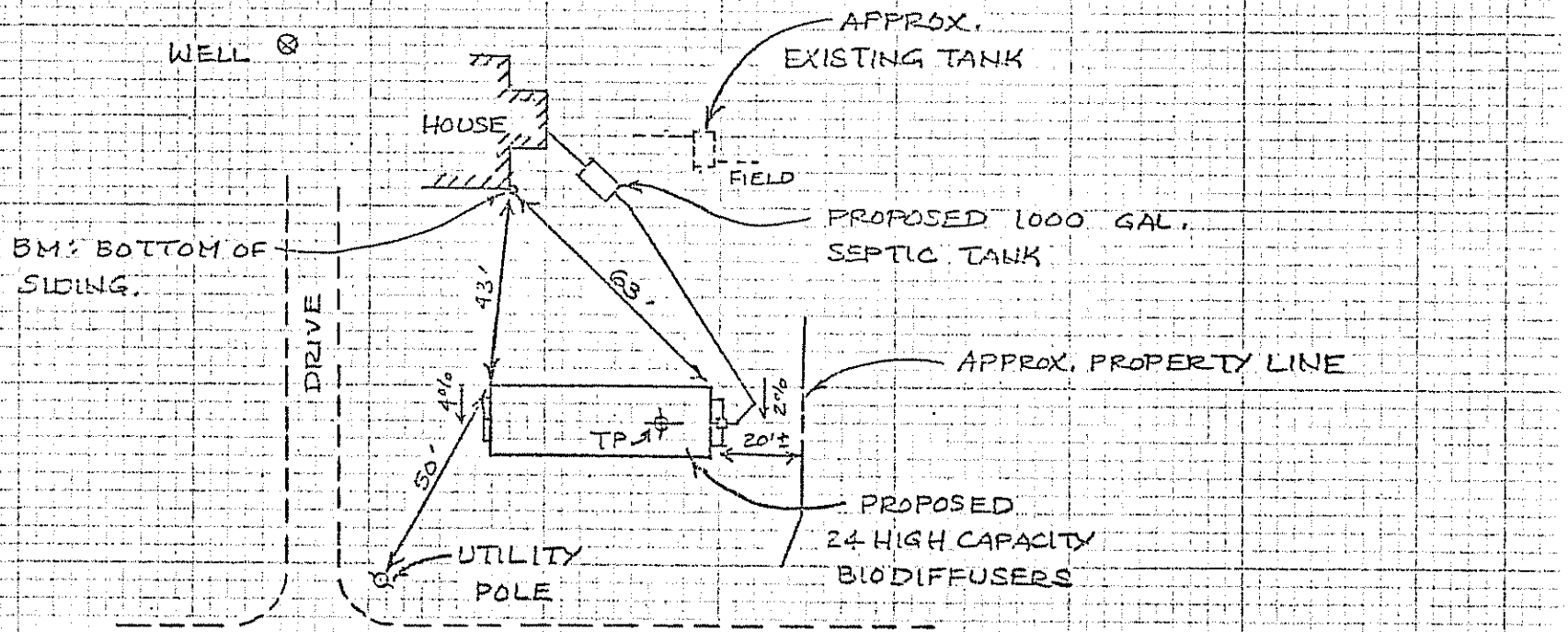
132 — S. E. #

9/12/07 — Date

## SITE PLAN:

SCALE: 1" = 40'

RICK KLAFT
AUGUSTA
PAGE 2A

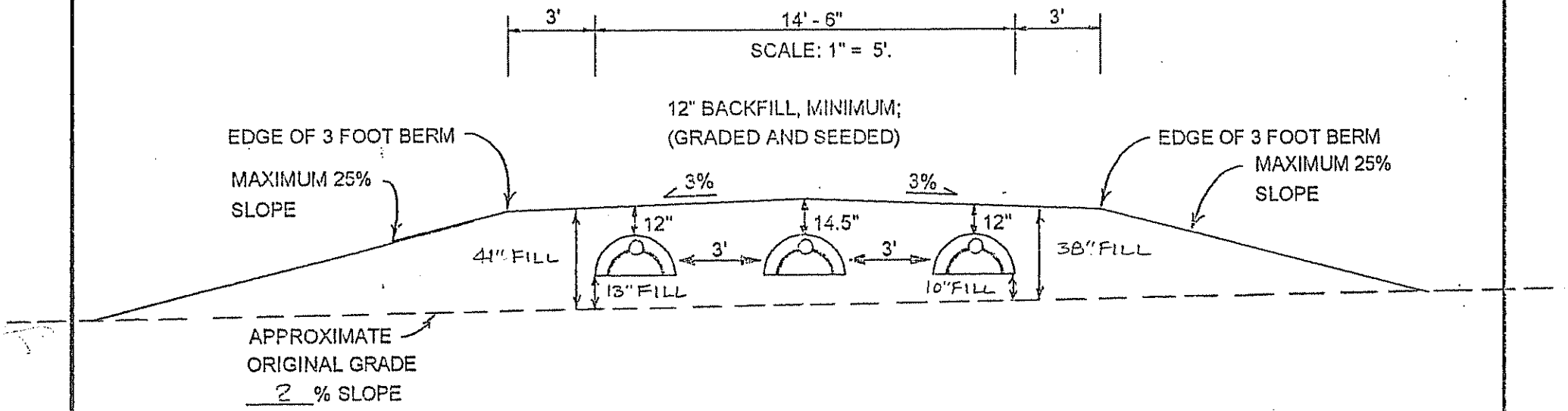



Tim Collins — SITE EVALUATOR'S SIGNATURE

132 — S.E.#

9/12/02 — DATE

# PLASTIC CHAMBER CROSS SECTION
## SECTION A - A




FINISHED GRADE: -13"
TOP OF PLASTIC CHAMBERS: -25"
BOTTOM OF PLASTIC CHAMBERS: -41"

OWNER: RICK KLAFT

LOCATION: AUGUSTA

Terry Adams — TERRY ADAMS

132 — S.E.#

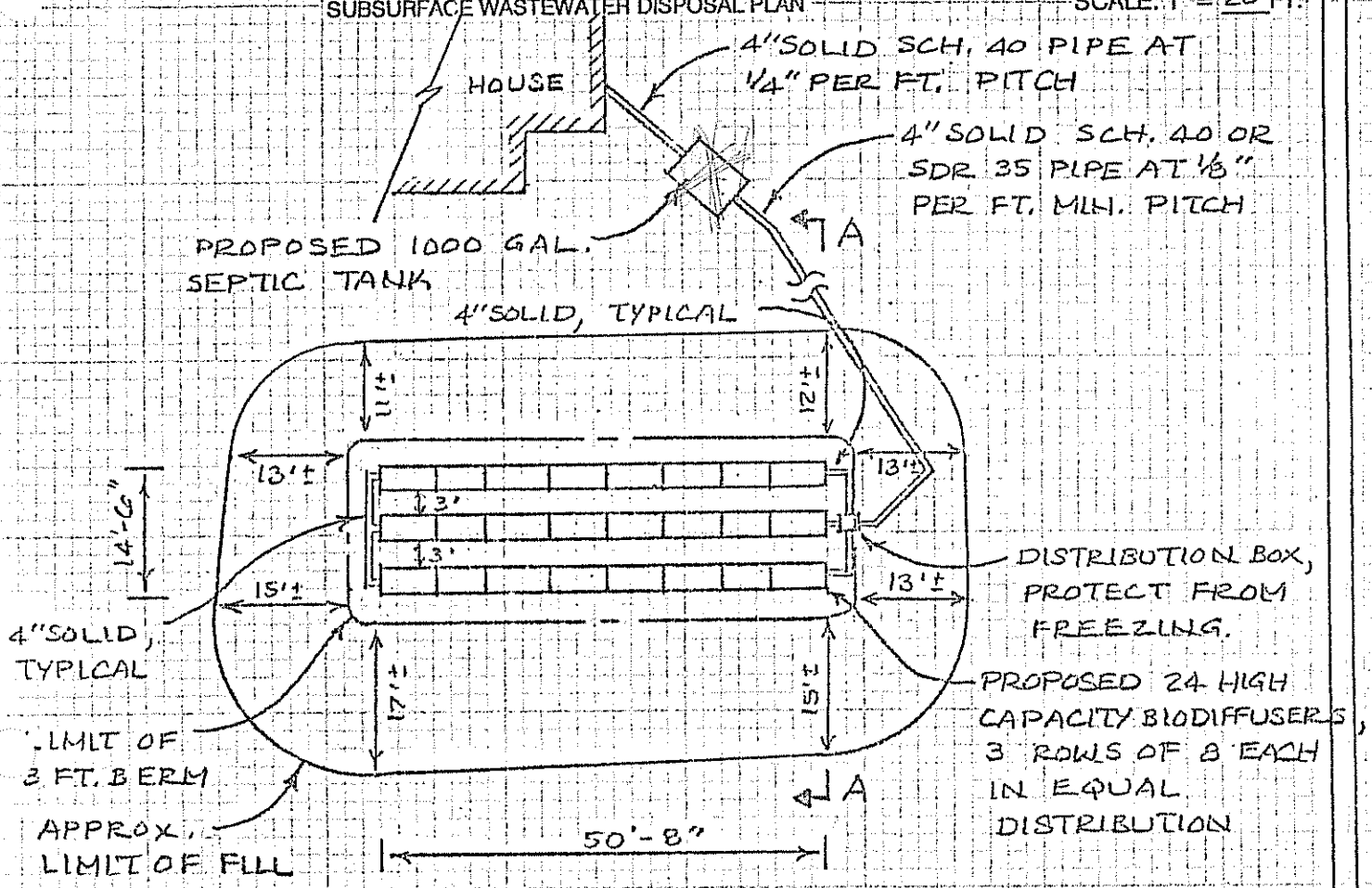
9/12/07 — DATE

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-3165

| Town, City, Plantation: | Street, Road, Subdivision | Owner's Name |
|---|---|---|
| AUGUSTA | WEST RIVER ROAD | RICK KLAFT |

SUBSURFACE WASTEWATER DISPOSAL PLAN — SCALE: 1" = 20 FT.




| FILL REQUIREMENTS | | CONSTRUCTION ELEVATIONS | SYSTEM: | PRIVY: |
|---|---|---|---|---|
| Depth of Fill (Upslope) | 38"-39" | Finished Grade Elevation | -13" | |
| Depth of Fill (Downslope) | 41"-42" | Top of Distribution Pipe or Proprietary Device | -25" | |
| | | Bottom of Disposal Area | -41" | |

ELEVATION REFERENCE POINT
Location & Description: BM: BOTTOM OF SIDING
Reference Elevation 0"

## DISPOSAL AREA CROSS SECTION

(SEE ATTACHED CROSS SECTION A-A)

Site Evaluator's Signature — S.E. # 132 — Date 9/12/07

# NOTES FROM THE SITE EVALUATOR

1. Systems shall be installed in accordance with the Maine State Plumbing Code.
2. Remove vegetation from the proposed disposal area and scarify original ground before placing fill.
3. Fill shall be clean, coarse sand to gravely sand. See section 804.2 of the Maine Subsurface Waste Water Disposal rules.
4. All stone shall be uniform size and free of fines.
5. Site shall be graded in a manner, which will divert surface water from the bed.
6. Grass, clover, trefoil, vetch, perennial wild flowers or other herbaceous perennials may be planted on disposal area surfaces. Woody shrubs in conjunction with a hardy perennial ground cover may only be used on fill extensions.
7. If this application includes a new system variance request, it is assumed that this site is not part of a proposed subdivision.
8. "Permit By Rule" – When the toe of fill for a system extends closer than 100' to a wetland or water body, even though the system itself is 100' or more from the wetland or water body; or, when a system requires a Replacement System Variance, the applicant may be required to file a "Permit By Rule" notification form or a complete application form with the Department of Environmental Protection. "Permit by Rule" does not take the place of any other local, state or federal approvals, which may be needed for the proposed activity. In specific instances, the activity may require a shoreland zoning permit from the town, a lease from the Bureau of Public Lands, if the work extends onto state owned submerged lands or a permit from the U.S. Army Corps of Engineering.
9. If a system requires a pump, it shall be vented in accordance with standard practice. It is recommended that the required audible high water alarm be installed on the premises on a different electrical circuit from the pump.
10. As a general rule, a septic tank should be cleaned every two years. It is recommended that no commercial septic tank additives be used.
11. Unless otherwise stated this design does not provide for the use of a garbage disposal. If on is to be added, contact the site evaluator in order that they may alter the design to accommodate the change.
12. This site evaluation and design has been done in compliance with the Maine State Plumbing Code. The approval and/or design may be subject to more restrictive local ordinances. The Local Plumbing Inspector is to be contacted for final review approval.
13. By signature on this application, the client agrees with the location of lot lines, wells and other physical features shown and further agrees to limit the liability of the site evaluator to the original cost of installation of the system or the total fee for services rendered on this project, whichever is greater.
14. This site evaluation and septic design has been done for the owner or applicant shown of page 1and for the structure as described to the site evaluator. Any change in ownership, house location or other data shown on the HHE 200 form will make this design null and void.