SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION

>> CAUTION: PERMIT REQUIRED -- ATTACH IN SPACE BELOW <<

City, Town, or Plantation	AUGUSTA
Street or Road	ROUTE 105 1093 So Belfast Ave
Subdivision, Lot #	

AUGUSTA 5083 TOWN COPY
Date Permit Issued 11/15/03
$ 120.00 FEE ☐ Double Fee Charged
Local Plumbing Inspector Signature
L.P.I. # 1852

OWNER/APPLICANT INFORMATION

Name (last, first, MI) HASKELL, THERESA ■ Owner ☐ Applicant

Mailing Address of Owner/Applicant	P O BOX 210
	WINDSOR, ME 04363
Daytime Tel. #	445-5215

Municipal Tax Map # 64 Lot # 10

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.

Theresa L Haskell 11/21/02
Signature of Owner/Applicant /Date

CAUTION: INSPECTION REQUIRED

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

Local Plumbing Inspector Signature
(1st) Date Approved 11/15/03
(2nd) Date Approved

PERMIT INFORMATION

TYPE OF APPLICATION

☐ 1. First Time System
■ 2. Replacement System
Type replaced TRENCH
Year installed 60'S
☐ 3. Expanded System
☐ a. Minor Expansion
☐ b. Major Expansion
☐ 4. Experimental System
☐ 5. Seasonal Conversion

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 COMPONENTS

■ 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. Pretreatment, specify: ____
☐ 12. Miscellaneous Components

SIZE OF PROPERTY

7500 ■ sq. ft. ☐ acres

SHORELAND ZONING

■ Yes ☐ No

DISPOSAL SYSTEM TO SERVE:

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

Current Use ☐ Seasonal ■ Year Round ☐ Undeveloped

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
☐ 2. Plastic
☐ 3. Other ____
CAPACITY 1000 GAL.

DISPOSAL FIELD TYPE & SIZE

☐ 1. Stone Bed ☐ 2. Stone Trench
■ 3. Proprietary Device
■ a. cluster array ☐ c. Linear
■ b. regular load ☐ d. H-20 load
☐ 4. Other ____
SIZE 652 ■ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT

■ 1. No ☐ 2. Yes ☐ 3. Maybe
If Yes or Maybe, specify one below:
☐ a. multi-compartment tank
☐ b. ___ tanks in series
☐ c. Increase in tank capacity
☐ d. Filter on Tank Outlet

DESIGN FLOW

180 gallons per day
BASED ON:
■ 1. Table 501.1 (dwelling unit(s))
☐ 2. Table 501.2 (other facilities)
SHOW CALCULATIONS -for other facilities-
☐ 3. Section 503.0 (meter readings) ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE / CONDITION / DESIGN
7 / C / 1
at Observation Hole # TP-1
Depth 18"
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

EFFLUENT/EJECTOR PUMP

1. ☐ Not Required
2. ☐ May Be Required
3. ■ Required>> Specify only for engineered or experimental systems
DOSE gallons

SITE EVALUATOR'S STATEMENT

I certify that on 11/21/2002 (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).

William P Brown — Site Evaluator Signature
188 — SE#
11/21/2002 — Date
WILLIAM P BROWN — Site Evaluator Name Printed
293-2110 — Telephone #

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

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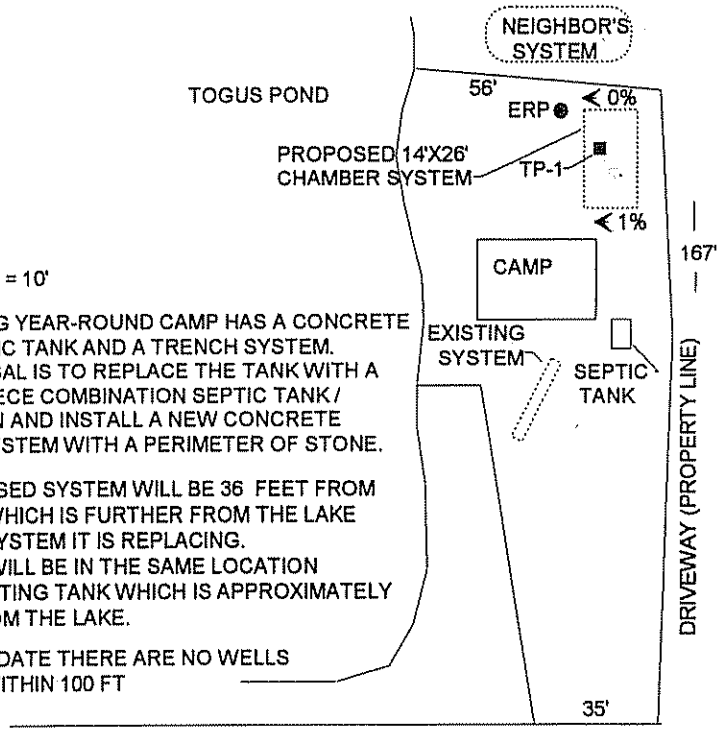
Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX 207 287-4165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
AUGUSTA	ROUTE 105	THERESA HASKELL

SITE PLAN Scale 1" = 50 Ft.

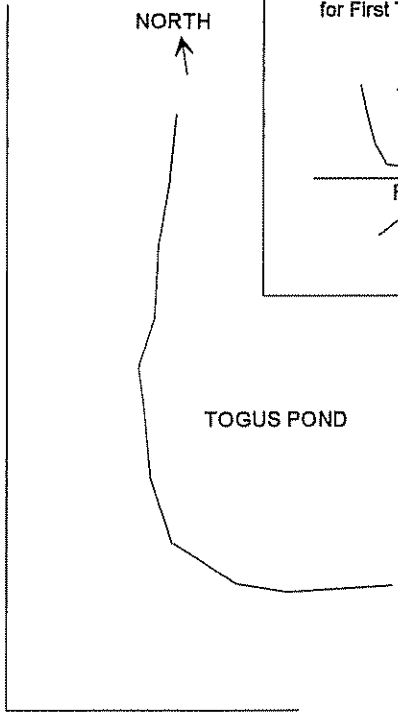


ERP TO TP-1 = 10'

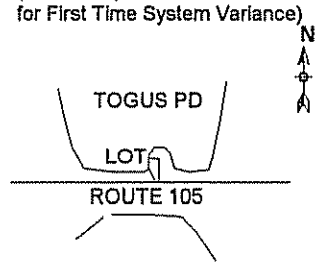
THE EXISTING YEAR-ROUND CAMP HAS A CONCRETE BLOCK SEPTIC TANK AND A TRENCH SYSTEM. THE PROPOSAL IS TO REPLACE THE TANK WITH A NEW ONE-PIECE COMBINATION SEPTIC TANK / LIFT STATION AND INSTALL A NEW CONCRETE CHAMBER SYSTEM WITH A PERIMETER OF STONE.

THE PROPOSED SYSTEM WILL BE 36 FEET FROM THE LAKE, WHICH IS FURTHER FROM THE LAKE THAN THE SYSTEM IT IS REPLACING. THE TANK WILL BE IN THE SAME LOCATION AS THE EXISTING TANK WHICH IS APPROXIMATELY 40 FEET FROM THE LAKE.

AS OF THIS DATE THERE ARE NO WELLS LOCATED WITHIN 100 FT



SITE LOCATION PLAN
(Attach map from Maine Atlas for First Time System Variance)



THE SOILS IN THE AREA OF TP-1 ARE IN THE DRIVEWAY WHICH HAVE BEEN FILLED TO 18 INCHES WITH COARSE SHARP GRAVEL IT IS MY OPINION THAT THE AREA ENCOMPASSES THE AREA OF THE NEW SYSTEM AND IS OF SUITABLE TEXTURE, DEPTH, AND CONSISTENCY TO BE EQUIVALENT TO ORIGINAL SOIL FOR DESIGN PURPOSES

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

Observation Hole # TP-1 ■ Test Pit ☐ Boring

0 " Depth of organic horizon above mineral soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Depth	Texture	Consistancy	Color	Mottling
0–10	GRAVEL FILL	FRIABLE	LIGHT BROWN	
10–20	FINE SAND	FIRM	OLIVE BRN	NONE COMMON
20–50				

Soil Classification		Slope	Limiting Factor	
7	C	0-1 %	18 "	■ Groundwater
Profile	Condition	Percent	Depth	☐ Restrictive Layer
				☐ Bedrock

Observation Hole # _____ ☐ Test Pit ☐ Boring

_____ " Depth of organic horizon above mineral soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Depth	Texture	Consistancy	Color	Mottling
0–50				

Soil Classification		Slope	Limiting Factor	
		%	"	☐ Groundwater
Profile	Condition	Percent	Depth	☐ Restrictive Layer
				☐ Bedrock

WILLIAM P BROWN *William P Brown* 188 11/21/2002
Site Evaluator Signature SE # Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
AUGUSTA	ROUTE 105	THERESA HASKELL

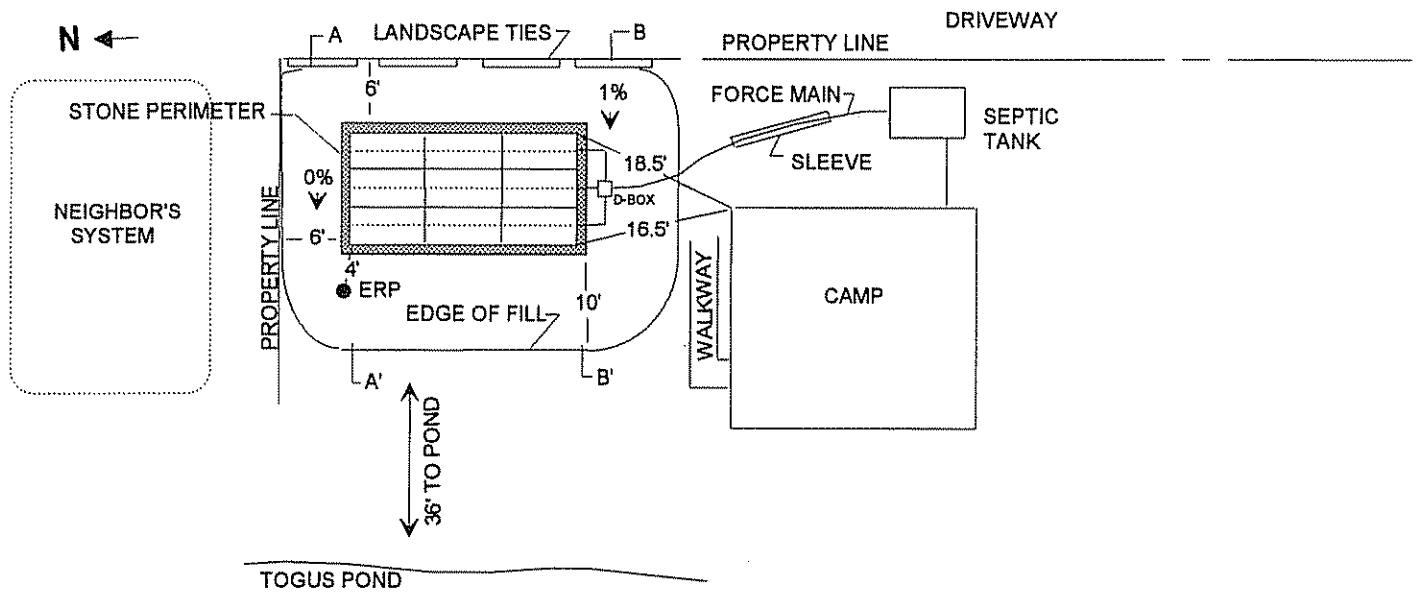
SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" 20' Ft.

INSTALL 12- 4' X 8' CONCRETE CHAMBERS WITH LONGITUDINAL DISTRIBUTION PIPING
EXTEND ONE FOOT WIDE PERIMETER OF CRUSHED STONE AROUND THE CHAMBERS
MEASUREMENTS FOR LAYOUT PURPOSES ARE FROM EDGE OF CONCRETE CHAMBERS
MEASUREMENTS FOR SET-BACK PURPOSES ARE FROM EDGE OF STONE PERIMETER
REPLACE EXISTING TANK WITH NEW ONE-PIECE COMBINATION SEPTIC TANK / LIFT STATION IN SAME LOCATION. USE HEAVY-DUTY TANK
USE 2 INCH DIAMETER FORCE MAIN PROTECT FORCE MAIN FROM FREEZING
SLEEVE FORCE MAIN INSIDE LARGER DIAMETER PIPE (IF AREA IS USED AS A PARKING AREA)
STEEPEN SLOPE ALONG DRIVEWAY AND PROPERTY LINE TO MAINTAIN FILL ON PROPERTY

INSTALL EROSION CONTROL SILT FENCE BEFORE BEGINNING CONSTRUCTION
INSTALL LANDSCAPE TIES ALONG DRIVEWAY TO PREVENT VEHICLE TRAFFIC

ALTHOUGH THIS SYSTEM IS 36 FT FROM THE LAKE, IT IS GREATER THAN THE SETBACK DISTANCE OF THE EXISTING SYSTEM



FILL REQUIREMENTS

Depth of Fill (Upslope) 24 "
Depth of Fill (Downslope) 24-26"
DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

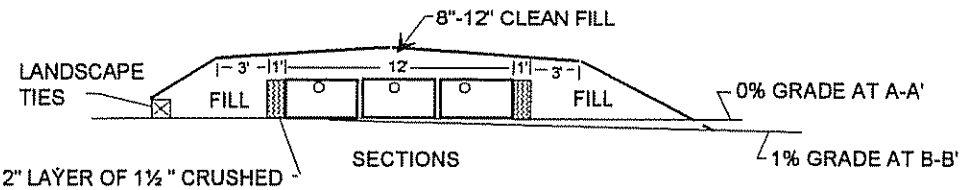
Finished Grade Elevation VARIES
Top of Distribution Pipe or Proprietary device -35"
Bottom of Disposal Area -48"

ELEVATION REFERENCE POINT

Location and Description: FLAGGED NAIL IN 18 INCH WHITE PINE TREE, 4 FEET ABOVE GROUND
Reference Elevation is: 00.0"

DISPOSAL AREA CROSS SECTION

Scale:
Vertical: 1 inch = 5 Ft.
Horizontal: 1 inch = 10 Ft.



12" LAYER OF 1½ " CRUSHED STONE AROUND PERIMETER
COVER WITH 2" HAY OR A LAYER OF FILTER FABRIC EQUAL TO MIRAFI 140 N

INSTALL EROSION CONTROL SILT FENCE BEFORE CONSTRUCTOIN
REMOVE 12 INCHES OF FILL IN AREA OF SYSTEM TO ENSURE THAT THE ENTIRE SYSTEM AREA IS COARSE GRAVEL FILL
SCARIFY ENTIRE FILL AREA
MIX 4 INCHES OF FILL MATERIAL WITH EXISTING SOIL TO FORM A TRANSITION ZONE (ACCORDING TO CHAPTER 8, PLUMBING CODE)
ALL FILL SHALL BE GRAVELLY COARSE SAND
INSTALL CHAMBERS PER MANUFACTURER'S INSTRUCTIONS
CROWN FINISH GRADE FROM CENTER AT 3%
LOAM, SEED, MULCH

COVER TOP SEAMS BETWEEN CONCRETE CHAMBERS WITH HAY OR FABRIC

WILLIAM P BROWN *William P Brown*	188	11/21/2002
Site Evaluator Signature	SE #	Date

M64 210

STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
DIVISION OF HEALTH ENGINEERING
11 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0011

ANGUS S. KING, JR.
GOVERNOR

KEVIN W. CONCANNON
COMMISSIONER

FEB 6 2003

December 2, 2002

Theresa Haskell
PO Box 210
Windsor ME 04363

Subject: Approval, Replacement System Variance Request, Haskell property, South Belfast Avenue (Route 105), Augusta

Dear Ms. Haskell:

The Division has reviewed a Replacement System Variance Request for the subject property. The proposal is to install a replacement septic system to serve a two-bedroom dwelling. The state variances requested are to allow the installation of the system with a setback distance reduction from a major watercourse to the disposal field of 36 feet and septic tank of 40 feet. Other variances required are setback distance reductions from a structure without a full basement to the disposal field of 14 feet, a property line to the disposal field of six feet, and a fill extension grade reduction to 3:1 along the driveway and property line. The system design, prepared by William Brown, SE, dated November 21, 2002, indicated the replacement system will be further from the watercourse than of the existing system. The design is found to be in compliance with the Maine Subsurface Wastewater Disposal Rules.

We approve the requested variance with the following requirements:

1. A permit for system installation is to be obtained from the Local Plumbing Inspector in advance of the start of system construction.

2. The system is to be installed in accordance with the submitted and approved system design. Should alterations be required at the time of system installation, the system designer must be notified prior to making any changes.

3. The variance approval is based only on the rules administered by this department. The approval of the variance request does not relieve the property owner from compliance with all other state and local requirements pertaining to the installation, use, and operation of the wastewater disposal system.

By accepting this approval and the associated plumbing permit, the owner agrees to comply fully with the conditions of approval and the Subsurface Wastewater Disposal Rules.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of the system.

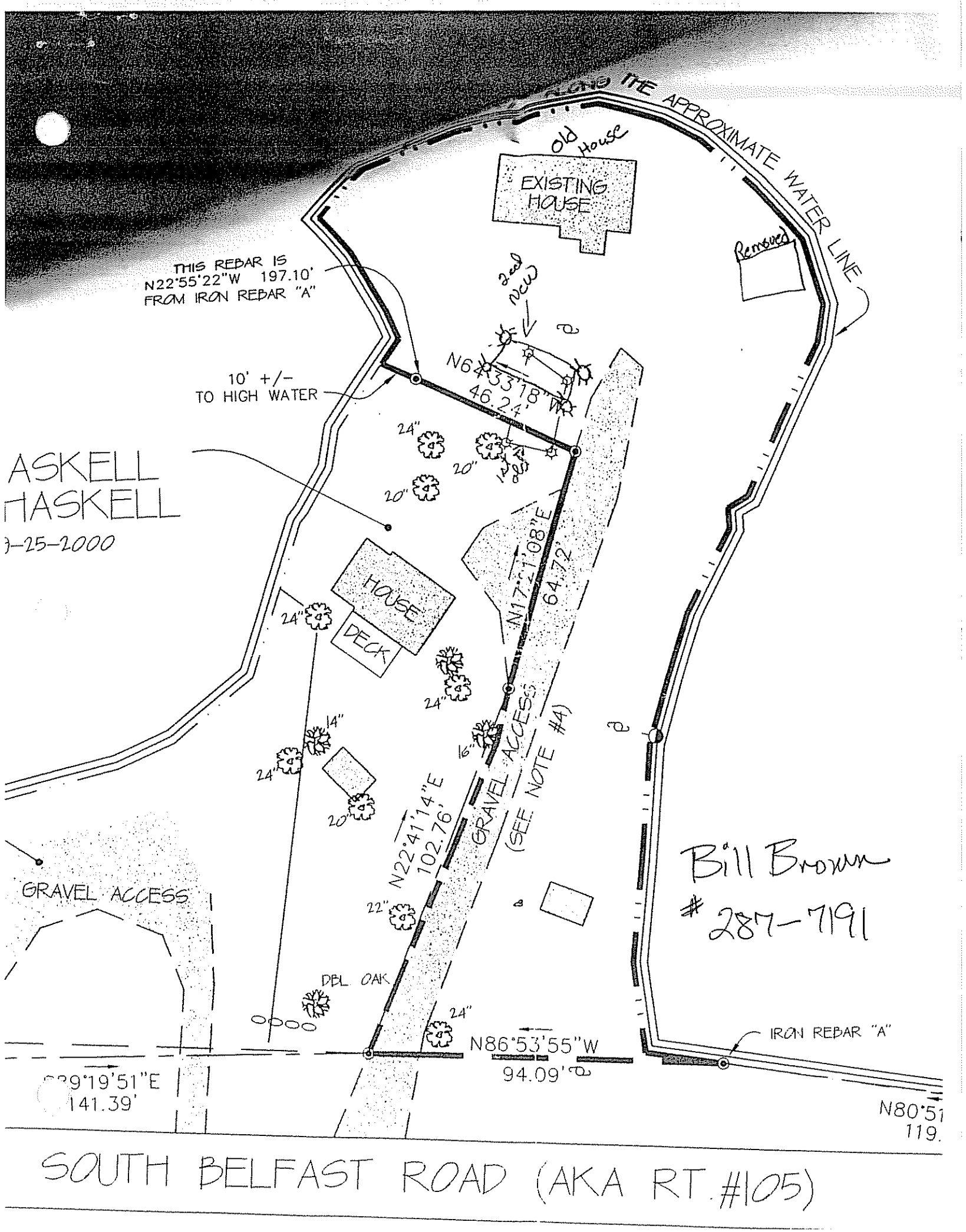
Should you or others have any questions regarding this review and/or approval, please feel free to contact me at 287-5687.

Sincerely,

Linda Robinson

Linda Robinson, Environmental Specialist II
Wastewater and Plumbing Control Program
Division of Health Engineering
E-mail: linda.robinson@state.me.us

/lsr
xc: Gary Fuller, LPI
William Brown, SE


NOTE THE APPROXIMATE WATER LINE
old House
EXISTING HOUSE
Removed
THIS REBAR IS
N22°55'22"W 197.10'
FROM IRON REBAR "A"
2nd new
N64°33'18"W
46.24'
10' +/-
TO HIGH WATER
24"
20"
20"
14"
ASKELL
HASKELL
-25-2000
HOUSE
DECK
N17°21'08"E
64.72'
24"
24"
24"
16"
20"
GRAVEL ACCESS
(SEE NOTE #4)
N22°41'14"E
102.76'
22"
GRAVEL ACCESS
Bill Brown
287-7191
DBL OAK
24"
N86°53'55"W
94.09'
IRON REBAR "A"
S89°19'51"E
141.39'
N80°51
119.
SOUTH BELFAST ROAD (AKA RT. #105)

1614 -48C

WORK 549-7669

TOWN COPY 120.00

REPLACEMENT SYSTEM VARIANCE REQUEST

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 and 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 the LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2006)
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 BOD_5 plus S. S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION

Town of AUGUSTA

Permit No. 5083

Date Permit Issued 5/15/03

Property Owner's Name: THERESA HASKELL

Tel. No.: 445-5215

System's Location: SOUTH BELFAST AVE (ROUTE 105) AUGUSTA

Property Owner's Address: P O BOX 210

(if different from above) WINDSOR, ME 043 63

SPECIFIC INSTRUCTIONS TO THE:

LOCAL PLUMBING INSPECTOR (LPI):

If any of the variances exceed your approval authority and/or do not meet all 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 tha a variance for the proposed replacement system is needed, complete the Replacement System Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

It 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.

Theresa L. Haskell — SIGNATURE OF OWNER

11/22/02 — DATE

LOCAL PLUMBING INSPECTOR:

I, Gary R. Fuller, 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, he/she shall state his/her reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments

Gary R. Fuller — LPI SIGNATURE

5/15/03 — DATE

HHE-204 Rev 10/02

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table			to 7"			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 supply wells	300 ft	300 ft	300 ft	100 ft	100 ft	100 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]	65'	
Water supply line	10 ft [h]	20 ft [h]	25 ft [h]	10 ft [h]	10 ft [h]	10 ft [h]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft[d]	200 down to 120 ft[d]	100 down to 180 ft[d]	100 down to 50 ft[b]	100 down to 50 ft	100 down to 50 ft	**36'**	**40'**
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	**14'**	
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]	**6'**	
Burial sites or graveyards, measured from the downhill toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		

OTHER

1. **REDUCE FILL EXTENSION TO 3 TO 1 ALONG DRIVEWAY AND PROPERTY LINE TO MAINTAIN FILL ON PROPERTY**
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 tank 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 on abutting property.
[d] Additional setbacks may be required by local Shoreland zoning.
[e] Natural Resources Protection Act requires a 25 foot 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 neighbor's 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 1402.10 for special procedures when these minimum setbacks cannot be achieved.

WILLIAM P BROWN William P Brown — **11/21/2002**

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