

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 289-3826

PROPERTY ADDRESS

Town Or Plantation: Augusta
Street: Old Belgrade Road
Subdivision Lot #: Tax Map # 80 Lot # 19

PROPERTY OWNERS NAME

Construction Specialties Inc.
Last: Dumont First: Richard

Applicant Name: same

Mailing Address of Owner/Applicant (If Different): Construction Specialties Inc. c/o Richard J. Dumont P.O. Box 142 Belgrade Road

M 80 L 19

AUGUSTA PERMIT # 1,194 TOWN COPY

Date Permit Issued: 9/15/87 \$ 1200 FEE If Double Fee Charged

Local Plumbing Inspector Signature: *[Signature]* L.P.I. # 8108

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Signature of Owner/Applicant: *[Signature]* Date: _____

Caution: Inspection Required

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

Local Plumbing Inspector Signature: *[Signature]* Date Approved: 9-15-87

PERMIT INFORMATION

THIS APPLICATION IS FOR:

- NEW SYSTEM
- REPLACEMENT SYSTEM
- EXPANDED SYSTEM
- SEASONAL CONVERSION
- EXPERIMENTAL SYSTEM

THIS APPLICATION REQUIRES:

- NO RULE VARIANCE REQUIRED
- NEW SYSTEM VARIANCE
Attach New System Variance Form
- REPLACEMENT SYSTEM VARIANCE
Attach Replacement System Variance Form
- Requiring Local Plumbing Inspector Approval
- Requires State and Local Plumbing Inspector Approval

INSTALLATION IS:

COMPLETE SYSTEM

- NON-ENGINEERED SYSTEM
- PRIMITIVE SYSTEM (Includes Alternative Toilet)
- ENGINEERED (+ 2000 gpd)

INDIVIDUALLY INSTALLED COMPONENTS:

- TREATMENT TANK (ONLY)
- HOLDING TANK
- ALTERNATIVE TOILET (ONLY)
- NON-ENGINEERED DISPOSAL AREA (ONLY)
- ENGINEERED DISPOSAL AREA (ONLY)
- SEPARATED LAUNDRY SYSTEM

IF REPLACEMENT SYSTEM:

YEAR FAILING SYSTEM INSTALLED _____

THE FAILING SYSTEM IS:

- BED
- CHAMBER
- TRENCH
- OTHER: _____

DISPOSAL SYSTEM TO SERVE:

- SINGLE FAMILY DWELLING
- MODULAR OR MOBILE HOME
- MULTIPLE FAMILY DWELLING
- OTHER: business office
2 employees SPECIFY

SIZE OF PROPERTY: 21,000 sq ft +/-

ZONING: RU

TYPE OF WATER SUPPLY

drilled well planned

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- SEPTIC: Regular Low Profile
- AEROBIC

SIZE: 1000 GALS.

WATER CONSERVATION

- NONE
- LOW VOLUME TOILET
- SEPARATED LAUNDRY SYSTEM
- ALTERNATIVE TOILET

SPECIFY: _____

PUMPING

- NOT REQUIRED
- MAY BE REQUIRED (DEPENDING ON TREATMENT TANK LOCATION AND ELEVATION)
- REQUIRED

DOSE: _____ GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)

commercial office with two employees. no showers added capacity for limited expansion

98 actual capacity

DESIGN FLOW: 30 design (GALLONS/DAY)

SOIL CONDITIONS USED FOR DESIGN PURPOSES

PROFILE: 5 CONDITION: B

DEPTH TO LIMITING FACTOR: made land see note

SIZE RATINGS USED FOR DESIGN PURPOSES

- SMALL
- MEDIUM
- MEDIUM-LARGE
- LARGE
- EXTRA LARGE

DISPOSAL AREA TYPE/SIZE

- BED _____ Sq. Ft.
- CHAMBER 128 Sq. Ft. REGULAR H-20
- TRENCH _____ Linear Ft.
- OTHER: _____

SITE EVALUATOR STATEMENT SITE EVALUATION WAIVED BY LOCAL OPTION

On Sept 7, 1987 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Signature: *[Signature]* SE#: 42 c Date: Sept 14, 1987

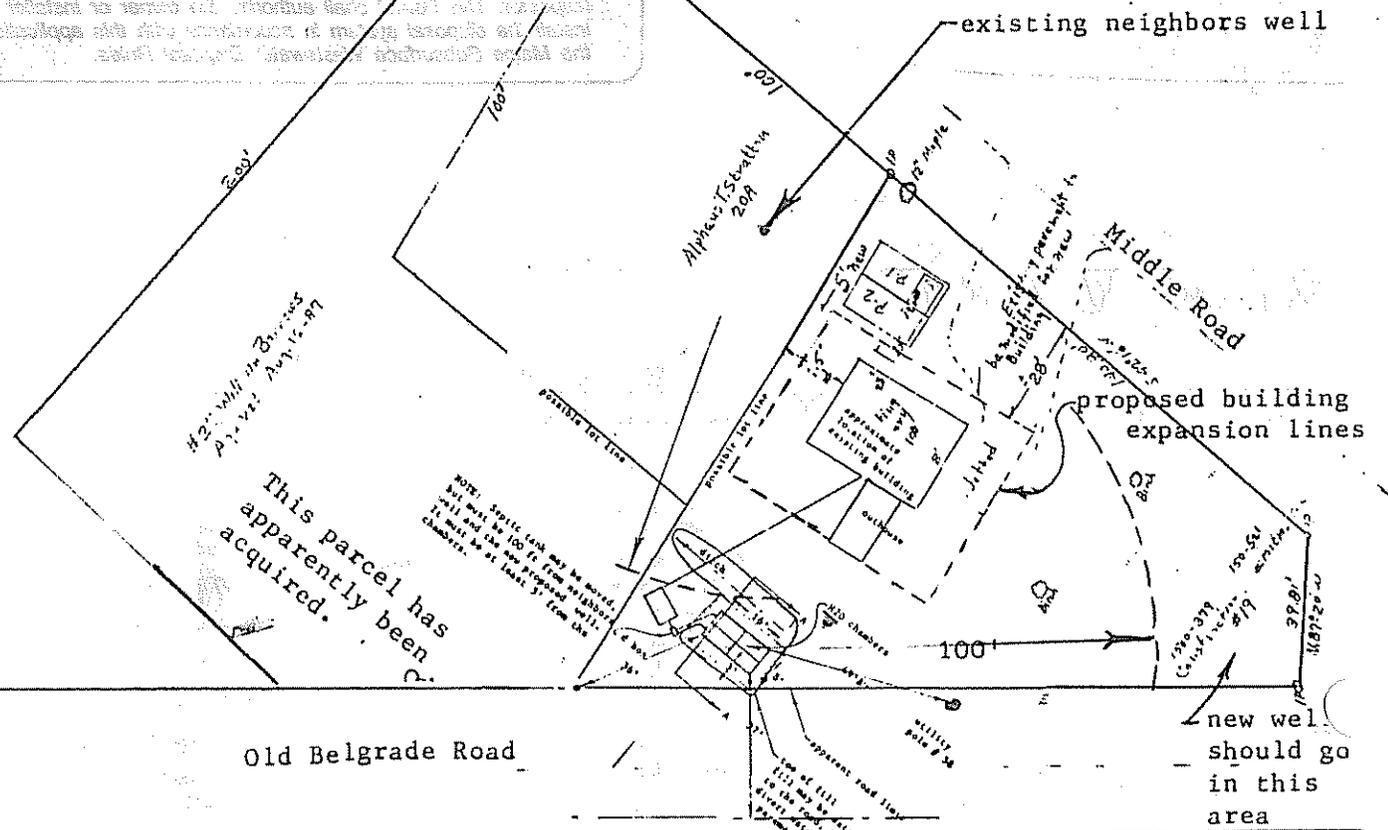
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation: Augusta Street, Road, Subdivision: Old Belgrade Road Owners Name: Construction Specialties Inc.

(Faint, mirrored text from reverse side of page)

Scale 1" = 50 Ft. SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)



SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole # 1 Test Pit Boring

0 * Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	6 to 18"			
6	sandy			
10	loam			
15				
20	apparent bedrock			
30				
40	This profile is fill with a very few inches if any of original soil over bedrock.			
50				

Soil Profile: <u>5</u>	Classification: <u>A</u> Condition	Slope: <u>5</u> %	Limiting Factor: <u>6"</u>	<input type="checkbox"/> Ground Water
				<input type="checkbox"/> Restrictive Layer
				<input checked="" type="checkbox"/> Bedrock

Observation Hole # 2 Test Pit Boring

0 * Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	48"	48"	48"	
6	loamy sand	loose to	light brown	none
10	fill	friable		
15				
20				
30	36" sandy loam	36" friable	36" dark brown	
40	fill			
50	This entire profile is fill. It has been in place several years, and was apparently filled when the road was done.			

Soil Profile: <u>5</u>	Classification: <u>B</u> Condition	Slope: <u>6</u> %	Limiting Factor: <u>none</u>	<input type="checkbox"/> Ground Water
				<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock

Lloyd Chow
Site Evaluator Signature

42
SE#

Sept 14, 1987
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation

Augusta

Street, Road, Subdivision

Old Belgrade Road

Department of Human Services

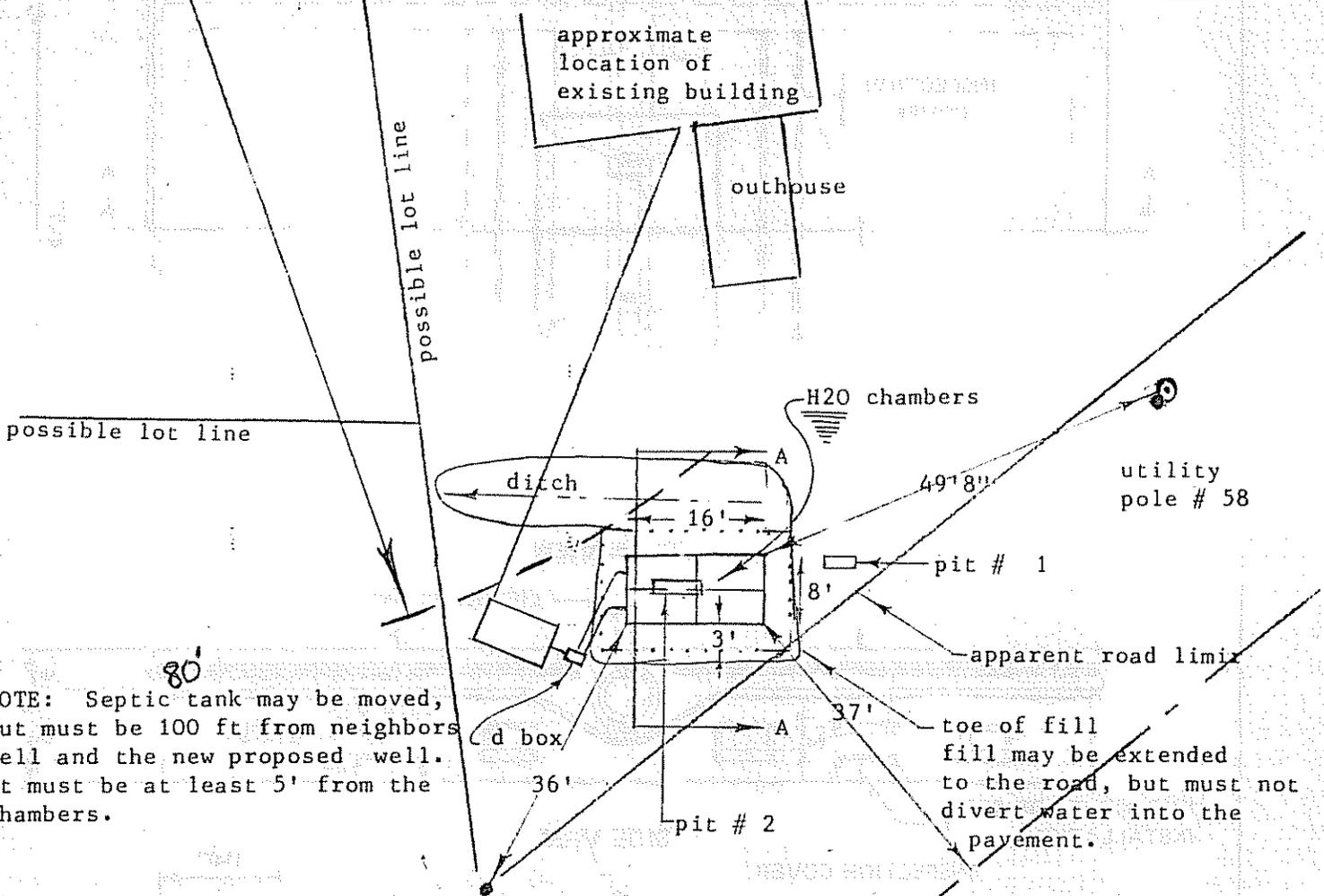
Division of Health Engineering

Owners Name

Construction Specialties Inc.

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' FL



NOTE: Septic tank may be moved, but must be 100 ft from neighbors well and the new proposed well. It must be at least 5' from the chambers.

FILL REQUIREMENTS

Depth of Fill (Upslope) 0'
Depth of Fill (Downslope) 6'

CONSTRUCTION ELEVATIONS

Reference Elevation is	100' 00"
Bottom of Disposal Area	-46"
Top of Distribution Lines or Chambers	-33"

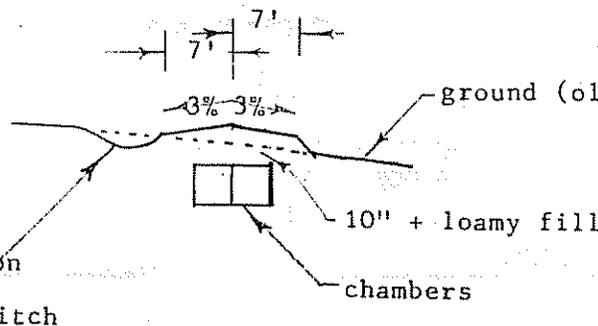
ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

ID tag on GMP Pole # 58 near base of pole

Scale:

Vertical: 1 inch = 5' FL
Horizontal: 1 inch = 20' FL

DISPOSAL AREA CROSS SECTION



NOTE: The driveway for the new building will probably pass over this system. If it does, 2" of foam insulation is recommended on the top of the chambers.

SECTION A - A

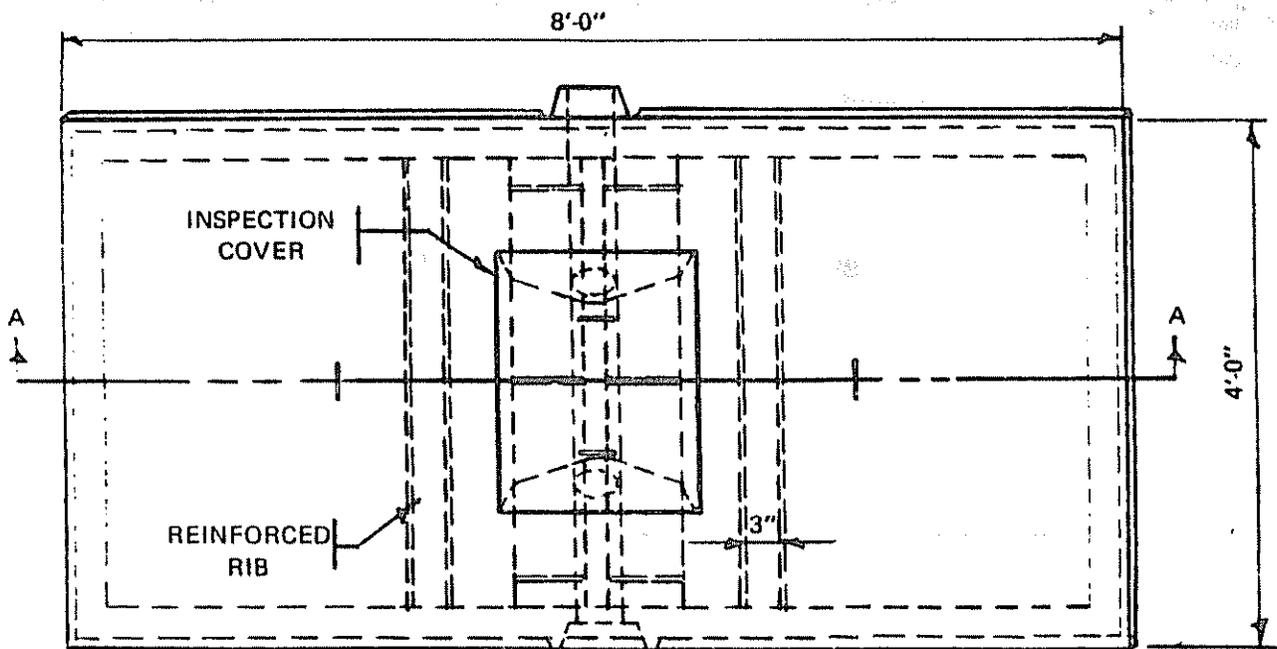
Lloyd Clowe
Site Evaluator Signature

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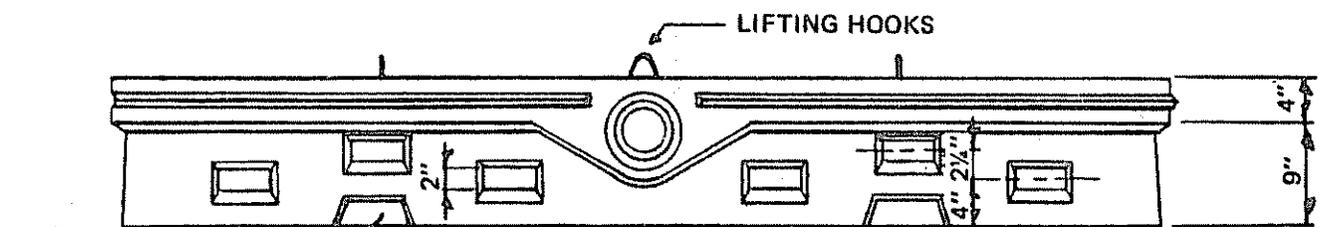
SE#

Sept 14, 1987

Date

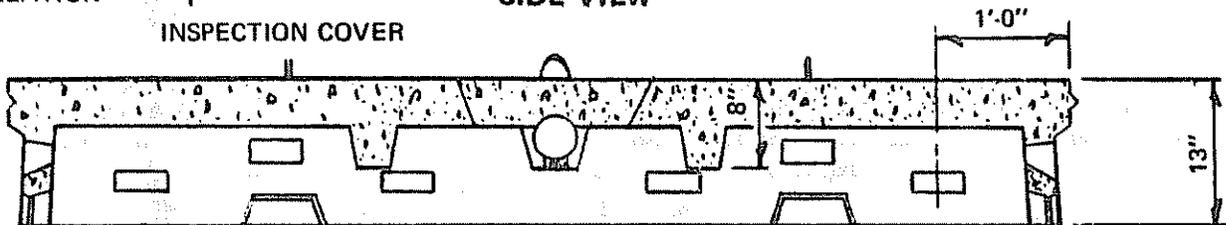


PLAN VIEW



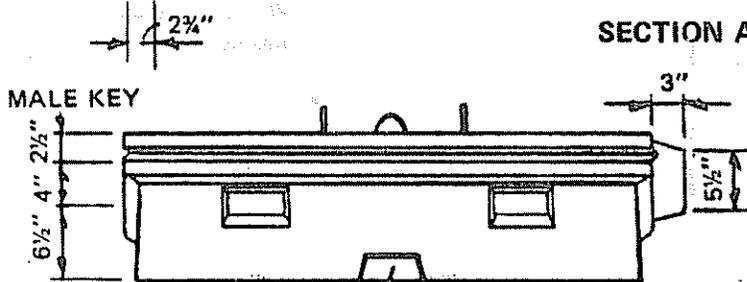
KNOCKOUT FOR BED INSTALLATION

SIDE VIEW



SECTION A-A

ITEM NO. 166



KNOCKOUT FOR TRENCH INSTALLATION

RIGHT END VIEW

DISTRIBUTION LINE RUNNING WIDTH OF CHAMBER

NEW SYSTEM VARIANCE REQUEST

This form shall accompany an Application for a proposed new system which requires a Variance to certain provisions of the Subsurface Wastewater Disposal Rules. A check or money order for \$20.00 payable to the Treasurer of the State shall accompany this request form.

The Local Plumbing Inspector shall not issue a Permit for the installation of a subsurface wastewater disposal system until approval has been received from the Department.

GENERAL INFORMATION

Town of Augusta

Property Owner's Name: Construction Specialties Inc.
Richard J. Dumont

System's Location: Old Belgrade Road & Middle Road
street

Property Owner's Address P.O. Box 142 Belgrade Road
street

Augusta, Maine 04330
town state zip

VARIANCE CONDITIONS

The Department has the authority to vary the requirements of the Rules in accordance with CMR 241.16 of the Rules if all the following criteria are satisfied:

- a. The variance request has the approval of the LPI.
- b. The variance request has received written endorsement from the elected municipal officers.
- c. The variance request demonstrates that there is no practical alternative for wastewater disposal, such as access to public sewer or the potential for an easement.
- d. The proposed system does not conflict with Seasonal Conversion, Shoreland Zoning or Resource Protection.
- e. The site offers potential for a system which will dispose of the wastewater with minimal threat to public health, safety, or welfare.
- f. The property owner has indicated an awareness of the variance and any limitations or added costs the proposed system may require.

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator)

Section of Code

- | | |
|---|------------------|
| 1. <u>change setback to the road limit (not lot line) to 44 inches+/-</u> | <u>Table 6-2</u> |
| 2. <u>to allow a system on made land</u> | <u>6B2b</u> |
| 3. _____ | |

If Variance request is for Sec. 6.B.3 Suitable Soil Conditions, fill in table below.

SOIL, SITE AND ENGINEERING FACTORS FOR ASSESSING NEW SYSTEM VARIANCE POTENTIAL (SEE TABLE 16-1)

CHARACTERISTIC	POINT ASSESSMENT
SOIL PROFILE	N/A
DEPTH TO GROUNDWATER	
SIZE OF PROPERTY	
TERRAIN	
WATERBODY SETBACK	
WATER SUPPLY	
TYPE OF DEVELOPMENT	
DESIGN FLOW	
SEPARATION DISTANCE	
ADDITIONAL TREATMENT	
TOTAL POINT ASSESSMENT	

LOCAL PLUMBING INSPECTOR:

The Local Plumbing Inspector shall review all New System Variance requests prior to submission to the Division of Health Engineering. The LPI shall indicate the municipality's position in regards to the variance request. The LPI shall also inform the Division of Health Engineering of any facts relative to the variance request not specifically noted by the property owner or the site evaluator.

The proposed system (does does not) conflict with any Municipal or Shoreland Zoning ordinances, and has been shown to the Code Enforcement Officer.

CONCLUSIONS: I, George A. Soucy Jr., the undersigned, have visited the above property and find that it is not possible to conform to certain provisions of the Rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property.

Therefore, I recommend the issuance of a permit for the system's installation as proposed on the application.

Signature of L.P.I.

9-30-17
Date

STATEMENTS, JUSTIFICATIONS and RESPONSIBILITIES

PROPERTY OWNER: The property owner shall provide accurate information to the Site Evaluator, the LPI, and the Department and elaborate below the reasons for requesting the variance(s).

(Attach additional sheets, if needed)

I, Richard J Dumont, am the owner prospective owner of the subject property. I understand that the installation illustrated on the Application is not in total compliance with the Rules. I have indicated my reasons for requesting the variance(s). 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 Department of Human Services and make any corrections the Department finds necessary. By signing this 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.

Richard J Dumont

Signature of Owner
 Signature of Prospective Purchaser

Sept 22, 1987
Date

HAS REVIEW FEE BEEN ENCLOSED

SITE EVALUATOR:

When an undeveloped property is found to be unsuitable for subsurface wastewater disposal by a Licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a Variance to the requirements of the Rules, and the Evaluator in his professional opinion feels the variance request is justified and that the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department.

This site has an existing small business that plans to expand the building, but not the number of employees. There is an existing outhouse that gets limited use. It is my understanding that municipal sewage is scheduled to be constructed on this road within a very few years. The fill in place has been there for a considerable time. (About 8 years according to the backhoe operator who apparently worked for the municipality when the road was rebuilt) The fill is stable and apparently uniform. The alternative is a holding tank, or the continued use of the outhouse.

For limited use, this system will work fine. The likelihood of seepage along the bedrock and from the steep bank is remote because of the low volume of effluent.

(Attach additional sheets, if needed)

I, Lloyd C. Rowe, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgement, I certify that the proposed system design on the attached Application is the best alternative available, enhances the potential of the site for subsurface wastewater disposal, and that the system should function properly.

Lloyd C. Rowe
Signature of Site Evaluator

September 15, 1987
Date

MUNICIPAL OFFICER(s): (Selectman, Councilman, Alderman, Mayor, Town Manager)

We the undersigned Officer(s) are aware that the applicant is applying to the Division of Health Engineering for a variance to the Subsurface Wastewater Disposal Rules as indicated in the application and that the proposed system does not meet the requirements of the Rules. The proposed variance request does does not comply with all Town Zoning requirements and the Municipality does does not endorse the variance request. If endorsed, the Town accepts the responsibility for any required enforcement of the Rules should the system malfunction.

<u>Philip B. Burrows</u> Municipal Officer's Signature	<u>Council Member</u> Officer Title	<u>9-24-87</u> Date
<u>William D. Buring</u> Municipal Officer's Signature	<u>Council Member</u> Officer Title	<u>9-24-87</u> Date
<u>Bob Hillitt</u> Municipal Officer's Signature	<u>Councilman</u> Officer Title	<u>9-28-87</u> Date

9/14/87

ROWE AND ELLIS

179 Main Street

Waterville, Maine 04901

SURVEYING 207-873-5808 ENGINEERING

Construction Specialties Inc.

c/o Richard Dumont

P. O. Box 142, Belgrade Road,

Augusta, Maine 04330

Dear sir,

The enclosed papers are not a plumbing permit. Construction of the sewage system should not be started until after the permit is issued by the local plumbing inspector. Additional fees may be levied by the plumbing inspector for violations.

Occasionally, for various reasons, the original design is not approved by the inspector or by the Health Engineering Division of the Department of Human Services. If construction has already started, it is very expensive to change the system to something that will meet approval of the permitting authorities.

Occasionally there may be an error or omission from the HHE 200 Form. Should this happen, or, if you have questions about the report, contact me at your earliest convenience for clarification or corrections. There is no additional charge for short consultations.

Property lines shown on the maps are only apparent lines and are subject to all the problems and interpretations of any property line. We do not accept responsibility for errors in the apparent lines shown on these maps unless specifically asked to determine the correct lot lines. There is an existing unsealed plan in my file. That plan seems to be reasonably accurate except that the structure may be mislocated.

This test and papers are good as long as your plumbing inspector will issue a permit based on them. The Maine Plumbing Code does change nearly every year, but there is no general ruling on validity of tests performed before the changes were made.

Longevity of the system is unpredictable.

5:33 PM

Factors affecting longevity are:**QUALITY OF CONSTRUCTION:**

1. The vegetation shall be removed from the ground surface under the disposal and fill area.
2. Surface areas under the chamber and fill extension should be scarified or tilled to minimize soil glazing of the original soil.
3. Wastewater from a treatment tank or distribution box shall be discharged to the chambers by means of:
 - A. GRAVITY - a watertight pipe at least (4') in diameter with a pitch of at least 1/16" per foot).
 - B. PRESSURE - a watertight pipe at least 1 1/2" in diameter. A watertight pipe of at least 2" shall be installed if pumping solids.
4. A distribution box may be used to distribute equal volumes of wastewater into separate chambers or chambers may be connected in series in accordance with the Maine Plumbing Code.
5. The bottom of the chambers shall be level.
6. A 2" layer of compressed hay or straw may be installed over the chambers to prevent sifting of backfill material into the chambers. One layer of Dupont "Typer (4 oz.)" or 2" of fiberglass insulation may be used in lieu of hay or straw.
8. Between 8" and 12" of clean sandy loam back fill shall be carefully placed over the hay or straw.
9. Clean sandy loam fill is to be placed in 8" layers and then thoroughly compacted as it is placed.
10. The surface of fill shall extend from the disposal area a distance of 3' at a 3 percent slope, then sloped on a uniform grade no greater than 25% (4:1) to meet the original ground.

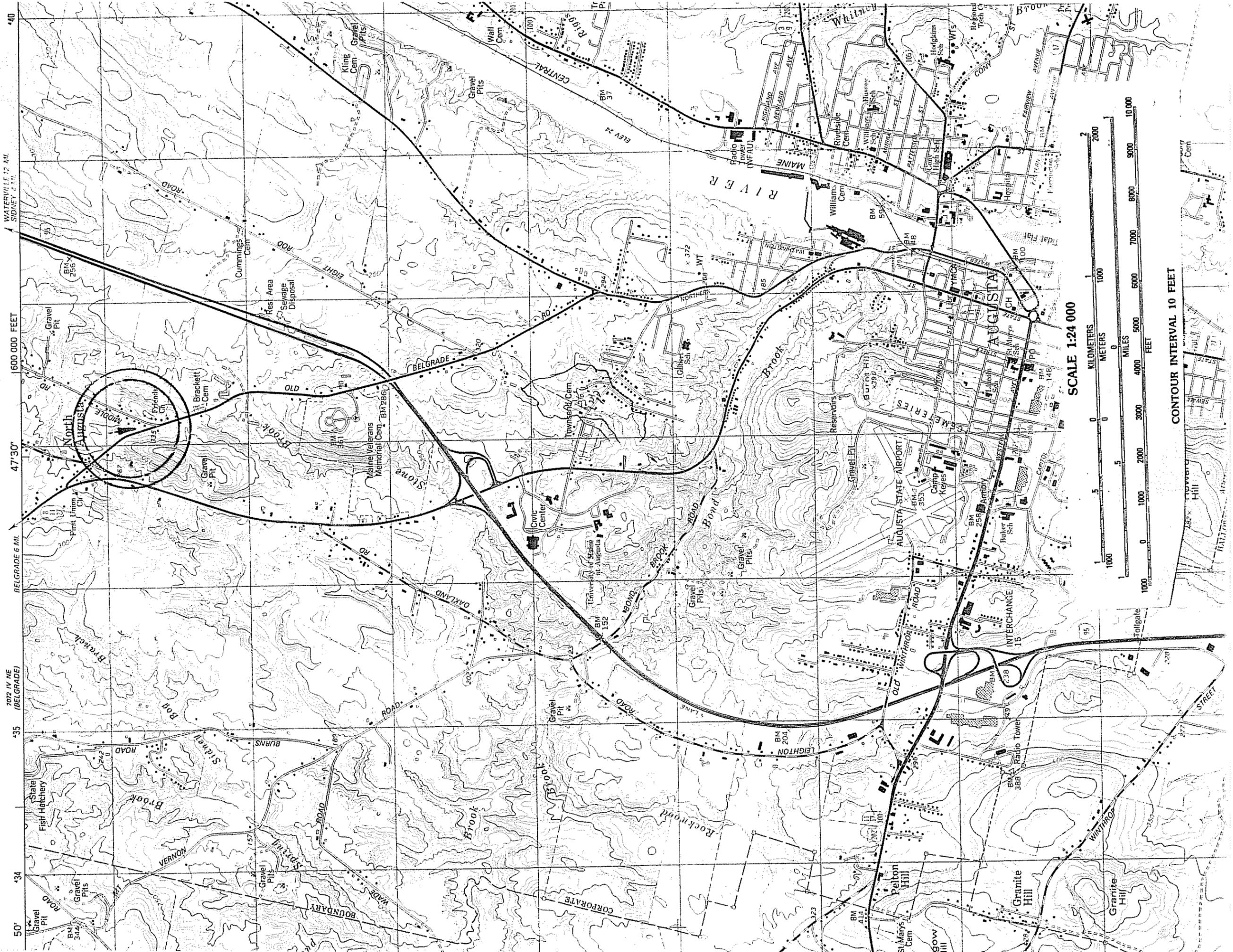
11. The fill between chamber systems shall be compacted to minimize the chance of seepage.
12. The perimeter of the disposal area and fill extension shall be graded and diversion ditches installed to divert ground and surface waters when necessary.
13. The disposal area and fill shall be stabilized (usually seeded) to prevent erosion. **This system may be paved and maintained as driveway. If so, insulation should be placed over the chambers to assist in the system operation and reduce the chance of frost entering the system if only occasional use is made of the system. For a considerable time, no water will enter the chambers since the pores in the septic tank must clog with organic matter before the tank will fill.**

USE AND MAINTENANCE OF THE SYSTEM

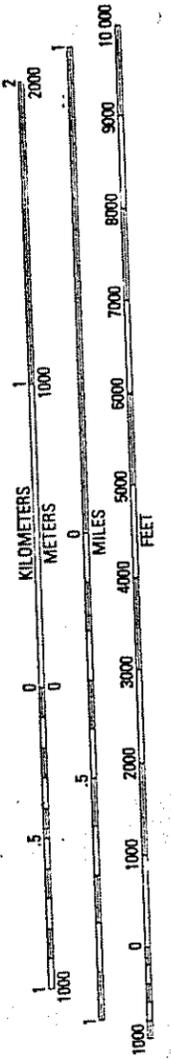
1. This system is designed for 30 gallons per day of domestic sewage. Under those conditions, the septic tank should be cleaned every 10 years or so.

New systems should last between 10 and 25 years if they are properly designed, constructed and maintained. However, this design and document does not give a guarantee for longevity of the system. There are so many other variables that contribute to the longevity of a system, that any problems must be resolved with the owner, contractor, plumbing inspector, designer, and possible the Division of Health Engineering, Department of Human Services, State of Maine. There is very little space for additional expansion of this system until the recently acquired lot has been filled. The slopes are too steep and the low areas are too wet to work well for disposal area.

AUGUSTA QUADRANGLE
MAINE—KENNEBEC CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 AUGUSTA 15' QUADRANGLE



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET



John R. McKernan, Jr.
Governor

Rollin Ives
Commissioner

STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
AUGUSTA, MAINE 04333

October 8, 1987

Construction Specialties, Inc.
Attn: Richard Dumont
P. O. Box 142
Augusta, ME 04330

SUBJECT: Replacement System Variance approval, Construction Specialties, Inc. property, Old Belgrade Road, Augusta

Dear Mr. Dumont:

The Division has reviewed your completed Application for a replacement system variance to the Subsurface Wastewater Disposal Rules. A replacement disposal system cannot be installed on the property in full compliance with the Rules. You have requested the following:

To allow a disposal system to be installed in fill soils in lieu of original soils.

The Division approves of the application dated September 14, 1987 by Lloyd C. Rowe, S.E.

Mr. Rowe shall be retained to establish the system location and elevation at the time of construction.

George Soucy, Jr., the Local Plumbing Inspector shall issue a permit prior to the system's installation. The system shall be constructed in compliance with the submitted application.

Very truly yours,

James A. Jacobsen
James A. Jacobsen
Wastewater and Plumbing Control
Division of Health Engineering

JAJ/smh
cc: George Soucy, L.P.I.
Lloyd Rowe, S.E.

