called 8/5 9:20

REPLACEMENT SYSTEM VARIANCE REQUEST

Town Copy #100

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. 1903)
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. 5135 Date Permit Issued 8/5/03

Property Owner's Name: Berry Marston Tel. No.: 622-4167

System's Location: 51 Church Hill Road Augusta, Me. 04330

Property Owner's Address: 51 Church Hill Road 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.

Karolyn Marston — SIGNATURE OF OWNER

7-22-03 — DATE

LOCAL PLUMBING INSPECTOR

I, Gregory R. Miller, 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, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments: _____

Gregory R. Miller — LPI SIGNATURE

8/5/03 — DATE

Replacement System Variance Request

VARIANCE CATEGORY	VARIANCE REQUESTED		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	Less Than 1000 gpd	1000 to 2000 gpd	To	To
Wells with water usage of 2000 or more gpd	300[a] ft	300[a] ft	100[a] ft	100[a] ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	100[b] down to 50 ft	100 down to 50 ft	83'	
Neighbor's wells	100[b] down to 60 ft	200[b] down to 120 ft	100[b] down to 50 ft	100[b] down to 75 ft		
Water supply line	10 ft[a]	20 ft[a]	10 ft[a]	10 ft[a]		
Water course, major - for replacements only, see Table 400.4 for exempted expansions	100 down to 60 ft	200 down to 120 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft	100 down to 50 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	25 down to 12 ft	25 down to 12 ft		
Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams (edge of fill extension)	25 ft[d]	25 ft[d]	25 ft[d]	25 ft[d]		
Slopes greater than 3:1	10 ft	18 ft	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Property lines	10 down to 5[c] ft	18 ft down to 9[c] ft	10 ft down to 4[c] ft	15 ft down to 7[c] ft		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft		

OTHER

1. Fill extension Grade - to 3:1

2.

3.

Footnotes:

a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (or 200 ft. for 1000-2000 gpd) feet and closer to that well than the system it is replacing.
c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

SE241 — SITE EVALUATOR'S SIGNATURE

5-20-03 — 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

FORMS

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION

City, Town, Plantation: Augusta
Street or Road: 51 Church Hill Rd.
Subdivision, Lot #:

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

AUGUSTA 5135 TOWN COPY
Date Permit Issued: 5-15-03 $ 120.00 ☐ If Double Fee Charged FEE
Local Plumbing Inspector Signature: Barry R. Marston L.P.I. # 550

OWNER/APPLICANT INFORMATION

Name (last, first, MI): Marston, Barry G ☒ Owner ☐ Applicant
Mailing Address of Owner/Applicant: 51 Church Hill Rd, Augusta ME
Daytime Tel. #: 287-2579

Municipal Tax Map # 011 Lot # 00024

OWNER OR APPLICANT STATEMENT
I state and acknowledge 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.
Barry & Rawlyn Marst 5/13/03
Signature of Owner or 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.
8/15/03 (1st) date approved
Barry R. Marston 8/18/03
Local Plumbing Inspector Signature — (2nd) date Approved

PERMIT INFORMATION

TYPE OF APPLICATION
☐ 1. First Time System
☑ 2. Replacement System
Type replaced: Trench
Year installed: Pre 1974
☐ 3. Expanded System
☐ a. Minor Expansion
☐ b. Major Expansion
☐ 4. Experimental System
☐ 5. Seasonal Conversion

SIZE OF PROPERTY
3/4+/- ☐ SQ. FT. ☒ 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 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. 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
☐ 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: 600 ☑ 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 facilites —

SOIL DATA & DESIGN CLASS
PROFILE CONDITION DESIGN
3 / D / 3
at Observation Hole # 1
Depth 14"
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
☐ 1. Small—2.0 sq. ft. / gpd
☐ 2. Medium—2.6 sq. ft. / gpd
☑ Medium—Large 3.3 sq. ft / gpd
☐ .. 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 systems:
DOSE: _____ gallons

10 - 4'x8' Concrete Chambers in A Cluster 12'x28'

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

SITE EVALUATOR STATEMENT

I certify that on 5-14-03 (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).

Site Evaluator Signature — SE # 241 — Date 5-20-03

Eugene L. Dube — 207-458-1542 — Septageman@Aol.Com
Site Evaluator Name Printed — Telephone Number — E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator. HHE-200 REV Oct. 02

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

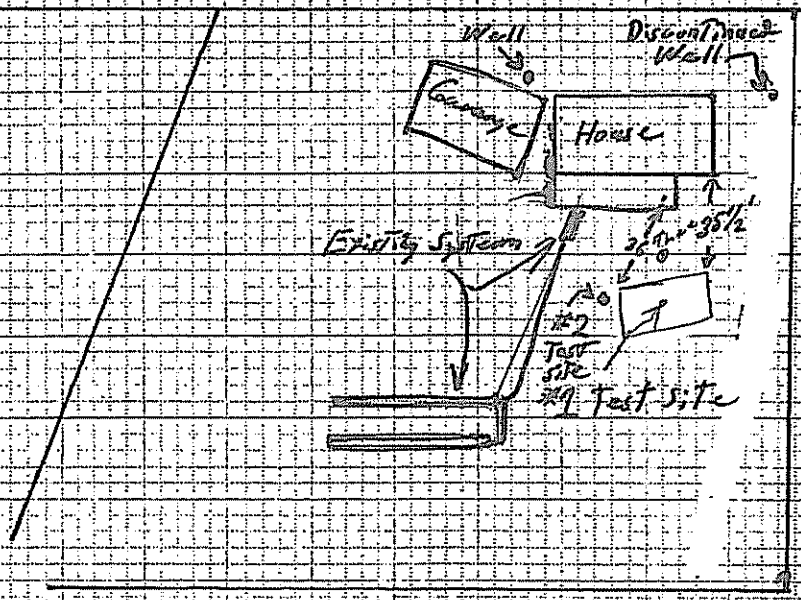
Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
Augusta	51 Church Hill Road	Berry Marston

SITE PLAN

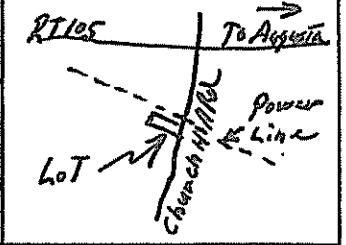
Scale: 1" = 60' ft.

51 Church Hill Road



SITE LOCATION MAP

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



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

Observation Hole # 1 — ☑ Test Pit ☐ Boring

0-1" Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)

Texture	Consistency	Color	Mottling
Loam	Friable	Brown	
		Yellowish Brown	
Sandy Loam		Olive	
	Firm		Common Distinct

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	Groundwater / Restrictive Layer / Bedrock
3	D	14%	14"	☑ Groundwater ☐ Restrictive Layer ☐ Bedrock

Observation Hole # 2 — ☑ Test Pit ☐ Boring

0-1" Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)

Texture	Consistency	Color	Mottling
Loam	Friable	Brown	
Sandy Loam		Yellow Brown	
	Firm	Olive	Common Distinct

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	Groundwater / Restrictive Layer / Bedrock
3	C	11	22"	☑ Groundwater ☐ Restrictive Layer ☐ Bedrock

Site Evaluator Signature | 241 SE # | 5-20-03 Date

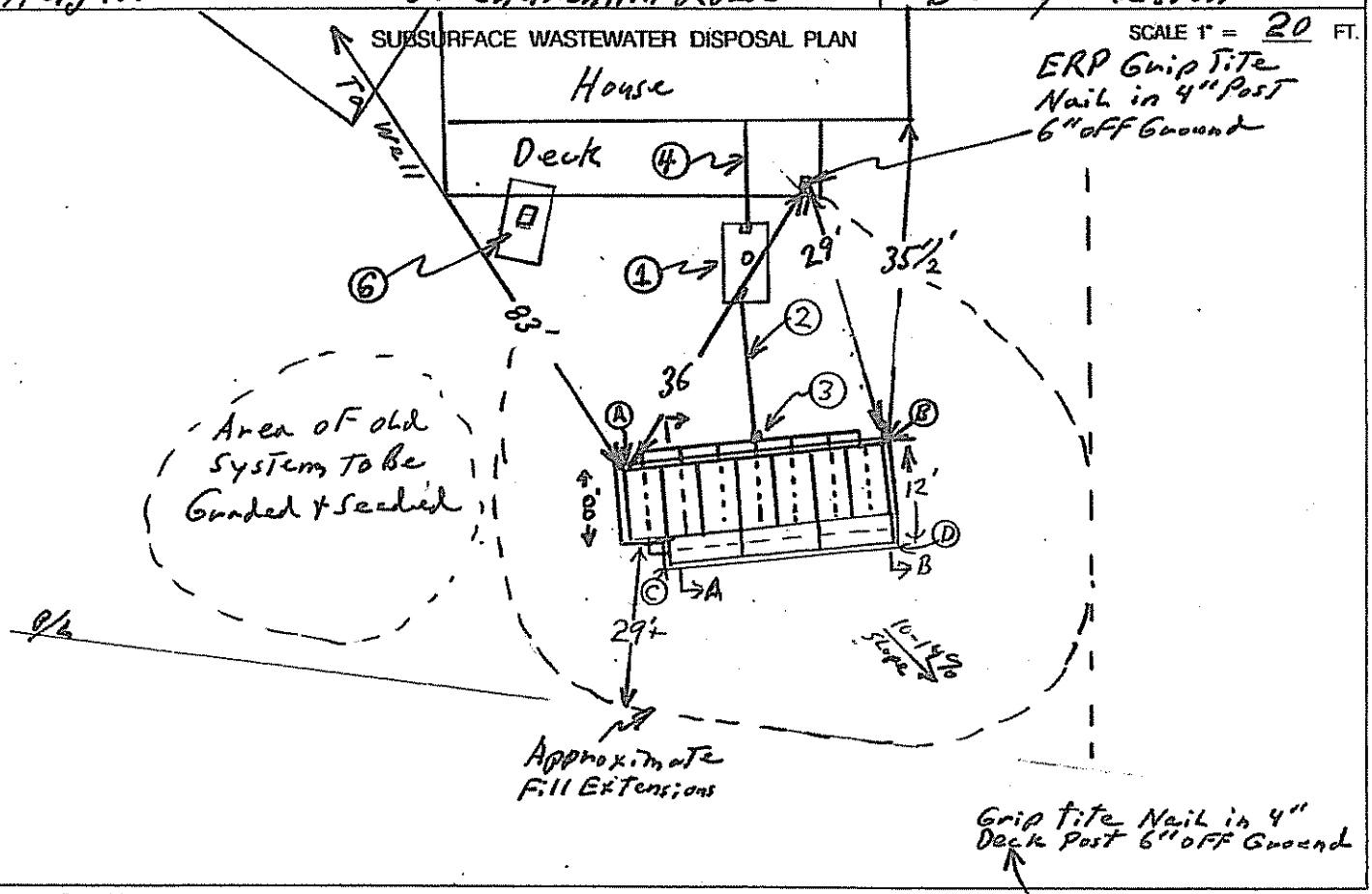
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
Augusta	51 Church Hill Road	Benny Marston

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



FILL REQUIREMENTS			CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Fill (Upslope)	Ⓐ 19"	Ⓑ 24"	Finished Grade Elevation	-16"	Location & Description
Depth of Fill (Downslope)	Ⓒ 39"	Ⓓ 41"	Top of Distribution Pipe or Proprietary Device	-27"	
			Bottom of Disposal Area	-40"	Reference Elevation -0"

DISPOSAL AREA CROSS SECTION

SCALE:
VERTICAL: 1" =
HORIZONTAL: 1" =

Notes!

1. **Install a 1000 gallon septic tank, (a Polylock filter is recommended)**
2. **Use 4"SCH 35 SOLID PVC pipe from septic tank to the distribution box**
3. **Install 12" concrete distribution box.**
4. **Install new 4" Sch 40 PVC pipe from the house to the septic tank. The new Septic tank must be 8' minimum from the home.**
5. **All Disposal field construction techniques in Chapter 8 of the Maine Subsurface wastewater Disposal Rules are to be followed, Including erosion and sediment control measures.**
6. **Pump out old cast in place septic tank and crush and fill in.**

Site Evaluator Signature | 241 SE # | 5-20-03 Date

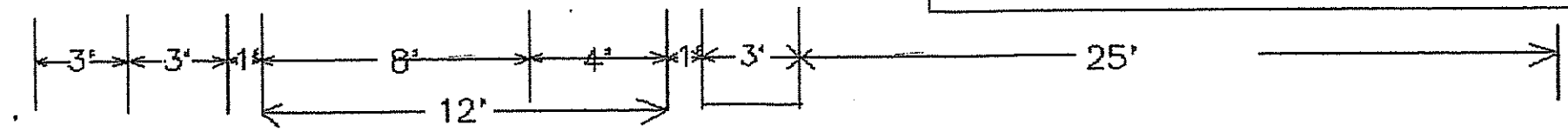
ATTACHMENT TO FORM HHE-200

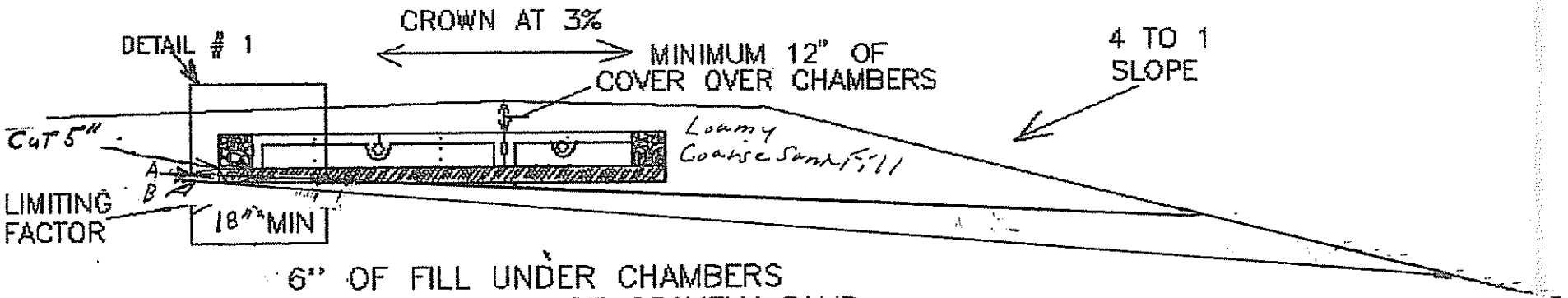
BERRY MARSTON
5-20-2003

SCALE 1 " = 5 '

ELEVATION NOTES

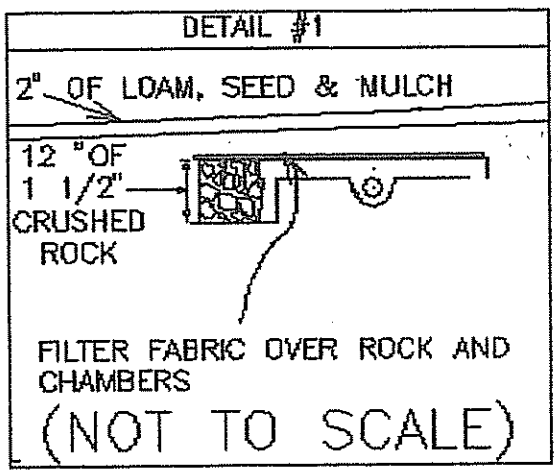
TOP OF CHAMBERS	BOTTOM OF CHAMBERS
-27"	-40"
REFERENCE ELEVATION = 0 "	





6" OF FILL UNDER CHAMBERS
FILL TO BE COARSE GRAVELY SAND
MIX SAND WITH ORIGINAL SOIL TO
CREATE A TRANSITION ZONE

10-14% slope



NOTES!

1# REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER CHAMBERS AND FILL EXTENSION AREAS (Trees)
2# BOTTOM OF CHAMBERS TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 1" PER 100'.
3# PROVIDE FOR SURFACE DRAINAGE AWAY FROM DISPOSAL AREA.
4# FINISHED GRADE SHALL BE SEEDED AND MULCHED TO PREVENT EROSION.
5# A MIMINUM OF 12" OF FILL REQUIRED OVER CENTER OF CHAMBER CLUSTER.

EUGENE DUBE SE # 241

DATE 5-20-03