



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0016

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

December 30, 2010
Subject: **Brooksville,
Callahan Mine**
Federal Project No: 12521.08
State Pin No: 012521.08
Amendment No. 6

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (page 218), Technical Specification Section 01 3000 Part 1.01 DESCRIPTION, D, **CHANGE** the last sentence in section "D" from; "Calibration shall be made at least monthly." To read "**Calibration shall be made at least monthly or in accordance with the offsite facility's Standard Operating Procedures, Operations Manual, or similar mechanism for documenting calibrations.**" Make this change in pen and ink.

In the Bid Book (page 299), Technical Specifications Section 31 1000, 3.03 VEGETATION, C.1; **CHANGE** item 1 from "All vegetation (trees, brush, etc) above ground shall be removed from site." to read "**All vegetation (trees, brush, etc.) above ground that is chipped or shredded may be used on site or stockpiled on site as directed by the Resident.**" Make this change in pen and ink.

Attachments: the below listed attachments were requested in Amendment #3, HHE-200 Disposal System Design papers;

- MDEP Lot A – 6 pages
- MDEP Lot B & C – 7 pages
- MDEP Lot D – 7 pages
- MDEP Lot E – 7 pages

The following questions have been received:

Question: Drawing C5 shows the requirement for a "Secondary Treatment System" to be installed with the new Wastewater Disposal Systems. Is there a specific size that is required for each system where one is required?

Response: The treatment system unit, if required, shall be Model 250ST-R-P. This unit has a three compartment tank and effluent pumping system.



PRINTED ON RECYCLED PAPER

Question: We are still awaiting information on the Waste Disposal System designs that are to be made available by amendment. When is it to be available to Contractors?

Response: The HHE-200 Disposal System Design papers are attached.

Consider these changes and information prior to submitting your bid on **January 5, 2011**.

Sincerely,



Scott Bickford

Contracts & Specifications Engineer

For

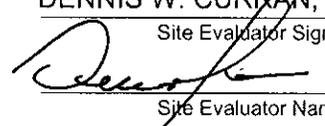
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Div of Environmental Health, 11 SHS
 (207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<
City, Town, or Plantation	BROOKSVILLE	
Street or Road	OLD MINE ROAD	
Subdivision, Lot #	TAX MAP 9 LOT 28 (MDEP LOT A)	
OWNER/APPLICANT INFORMATION		The Subsurface Wastewater Disposal System shall not be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
Name (last, first, MI)	FASSNACHT, JOHN & ABIGAIL <input checked="" type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	
Mailing Address of Owner/Applicant	P.O. BOX 162 BOOKSVILLE, MAINE 04617	
Daytime Tel. #		
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED
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.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st) date approved _____ _____ (2nd) date approved _____

PERMIT INFORMATION		
TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>OBD</u> Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
SIZE OF PROPERTY 0.5 ac± <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input checked="" type="checkbox"/> 3. Other: <u>3 BDRM</u> (specify) Current Use <input checked="" type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input checked="" type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other
SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input checked="" type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: _____ GAL. 3 COMPART TREAT. TANK	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input checked="" type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 320 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. 75% REDUCT. FOR SECONDARY TREATMENT	GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input checked="" type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW 270 GALLONS PER DAY <input checked="" type="checkbox"/> TABLE 501.1 (Dwelling units) <input type="checkbox"/> TABLE 501.2 (Other Facilities) SHOW CALCULATIONS For other facilities 3 BEDROOM DWELLING
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <u>2</u> / C/AIII / <u>1</u> at Observation Hole # <u>2</u> Depth <u>20</u> " of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small---2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium---2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 3. Medium---Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large---4.1 sq. ft. / gpd <input type="checkbox"/> 5. Extra Large---5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. <u>44</u> d <u>21'</u> m <u>15.04</u> s Lon. <u>68</u> d <u>48</u> m <u>38.93</u> s If g.p.s, state margin of error <u>10'</u>

SITE EVALUATOR STATEMENT		
I certify that on <u>11/18/10</u> (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).		
DENNIS W. CURRAN, CES INC. Site Evaluator Signature	SE327 SE #	12/14/10 Date
 Site Evaluator Name Printed	<u>207-989-4824</u> Telephone Number	_____ E-mail Address

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation
 BROOKSVILLE

Street, Road, Subdivision
 OLD MINE ROAD

FASSNACHT
 Owner's Name

SITE PLAN Scale 1" = 30' ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)
 See Attached Map

NOTES:

1. PROPERTY LINES SHOWN ON ATTACHED SITE SKETCH SHALL BE CONSIDERED APPROXIMATE. LOCATION OF PROPERTY LINES SHALL BE DETERMINED PRIOR TO INSTALLATION OF ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEMS.
2. SECONDARY TREATMENT SYSTEM SELECTED FOR THIS PROJECT ARE MANUFACTURED BY WASTEWATER ALTERNATIVE INC. THE CONTRACTOR SHALL INSTALL THE SECONDARY TREATMENT SYSTEM AS RECOMMENDED BY THE SELECTED MANUFACTURER.
3. BEDROCK DEPTH SHOWN ON TEST PIT LOGS WERE DEFINED USING A HAND SHOVEL AND AUGER. THE CONTRACTOR WILL BE REQUIRED TO DIG ADDITIONAL TEST PITS IN THE PROPOSED DISPOSAL AREA LOCATION PRIOR TO INSTALLATION OF THE DISPOSAL SYSTEM COMPONENTS. THE CONTRACTOR SHALL DIG ADDITIONAL TEST PIT WITH A BACKHOE AND IN THE PRESENTS OF A CES INC REPRESENTATIVE.
4. DISPOSAL AREA CONSTRUCTION ELEVATIONS MAY BE REVISED BASED ON ADDITIONAL TEST PIT FINDINGS.
5. DO NOT DISTURB EXISTING WASTEWATER DISPOSAL SYSTEM COMPONENTS UNTIL THE CES INC REPRESENTATIVE HAS CONDUCTED ADDITIONAL TESTS.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF PUMP STATION ALARM SYSTEM AND SECONDARY TREATMENT AERATION PUMP WITH HOME OWNER.
7. CONTRACTOR SHALL PROVIDE A MEANS FOR THE HOMEOWNER TO DISPOSE OF THE HOUSE HOLD WASTEWATER DURING CONSTRUCTION.
8. REFER TO TYPICAL CONSTRUCTION NOTES

REFER TO ATTACHED SITE SKETCH

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

Observation Hole TP 1 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

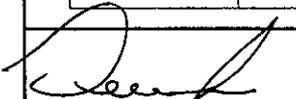
Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	
10	SANDY LOAM	FRIABLE	DARK YELLOW BROWN	NONE OBSERVED
20	SANDY LOAM		LIGHT YELLOW BROWN	
30				
40		REFUSAL ASSUMED		
50		BEDROCK		

Soil Classification Profile	Slope	Limiting Factor	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
2 CA III	15 %	36 "	

Observation Hole TP 2 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	
10	LOAMY SAND	FRIABLE	YELLOW BROWN	NONE OBSERVED
20	SANDY LOAM		LIGHT YELLOW BROWN	FAINT
30				
40		REFUSAL ASSUMED		
50		BEDROCK		

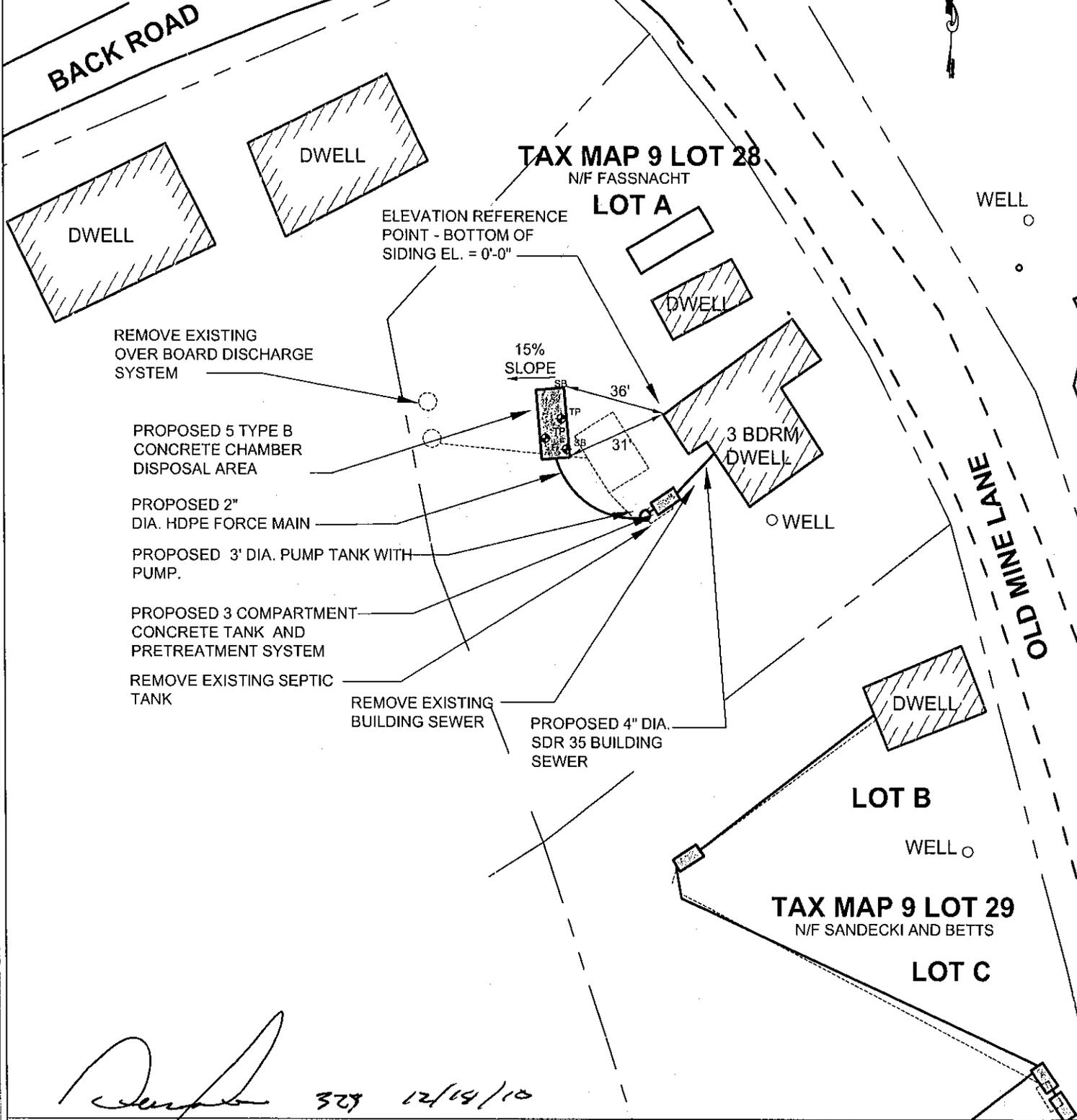
Soil Classification Profile	Slope	Limiting Factor	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
2 CA III	15 %	20 "	


 Site Evaluator Signature

327
 SE #

12/14/15
 Date

NOTES:
 THIS PLAN INTENDED FOR WASTEWATER
 DISPOSAL SYSTEM INSTALLATION ONLY.
 EXISTING SITE PLAN OBTAINED FROM MDEP
 EXISTING DISPOSAL SYSTEM COMPONENTS
 LOCATIONS SHALL BE CONSIDERED
 APPROXIMATE



[Handwritten Signature] 329 12/14/10

JOB TITLE CALLAHAN MINE-ONSITE WASTEWATER DESIGN	SCALE 1"=40'	DRAWN BY DWC	SHEET NUMBER
SHEET TITLE FASSNACHT	DATE 12/1/10	JOB NUMBER 5992	2C



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

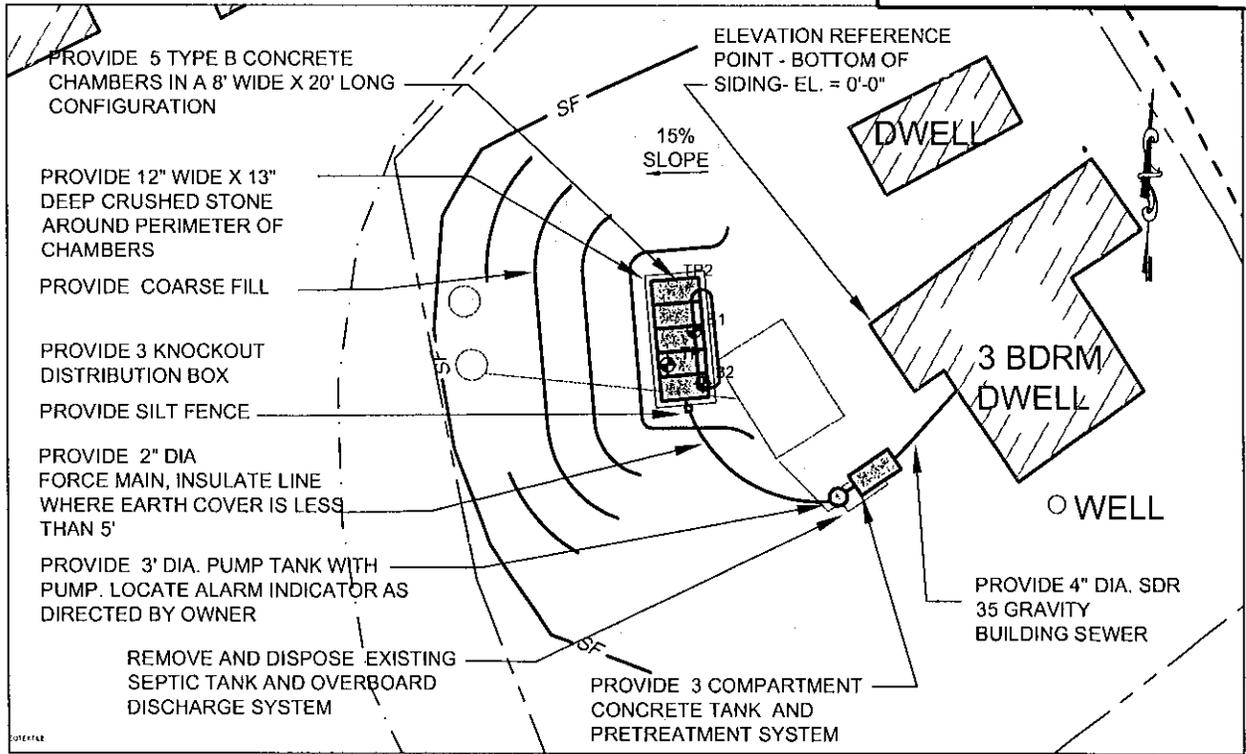
BROOKSVILLE

OLD MINE ROAD

FASSNACHT

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 30 FT.



FILL REQUIREMENTS

	A	B
Depth of Fill (Upslope)	16"	26"
Depth of Fill (Downslope)	30"	40"

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	+7"
Top of Distribution Pipe or Proprietary Device	-5"
Bottom of Disposal Area	-18"

ELEVATION REFERENCE POINT

Location & Description:
BOTT. OF SIDING OF HOUSE
 Reference Elevation: 0"

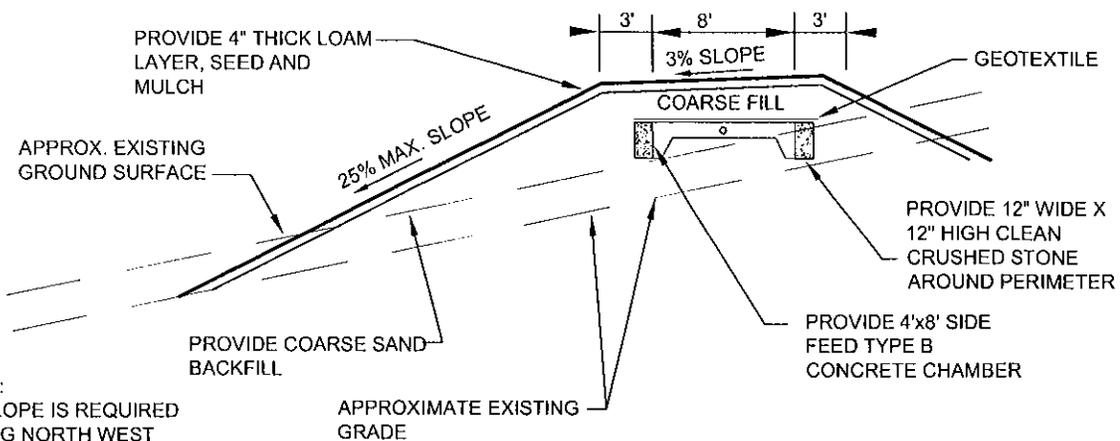
DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = 10 ft.

Vertical 1" = 5 ft.

NOTE:
 PROVIDE TRANSITION LAYER AS INSTRUCTED BY THE PROJECT MANUAL AND PROJECT REPRESENTATIVE



NOTE:
 3:1 SLOPE IS REQUIRED ALONG NORTH WEST FILL EXTENTION

Site Evaluator Signature

327

SE #

12/14/10

Date

EROSION CONTROL NOTES:

- 1) ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES, PUBLISHED BY THE C.C.S.W.C.D AND DATED MARCH 1991 (HEREINAFTER CALLED 1991 MAINE BMP HANDBOOK),
- 2) SILT FENCE WILL BE INSPECTED, REPLACED, AND/OR REPAIRED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR LOSS OF SERVICEABILITY DUE TO SEDIMENT ACCUMULATION. AT A MINIMUM, ALL EROSION CONTROL DEVICES WILL BE OBSERVED WEEKLY.
- 3) DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- 4) SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY A SUITABLE GROWTH OF GRASS. ONCE A SUITABLE GROWTH HAS BEEN OBTAINED, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED BY THE CONTRACTOR. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THEY ARE REMOVED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, SEEDED, AND MULCHED IMMEDIATELY.
- 5) ALL DISTURBED AREAS WILL BE SEEDED AND MULCHED.
- 6) A SUITABLE BINDER SUCH AS CURASOL OR TERRTACK WILL BE USED ON THE HAY MULCH FOR WIND CONTROL.
- 7) IF FINAL SEEDING OF DISTURBED AREAS IS NOT COMPLETED BY SEPTEMBER 15TH OF THE YEAR OF CONSTRUCTION, THEN ON THAT DATE THESE AREAS WILL BE GRADED AND SEEDED WITH WINTER RYE AT THE RATE OF 112 POUNDS PER ACRE OR 3 POUNDS PER 1,000 SQUARE FEET. THE RYE SEEDING WILL BE PRECEDED BY AN APPLICATION OF 3 TONS OF LIME AND 800 LBS. OF 10-20-20 FERTILIZER OR ITS EQUIVALENT. MULCH WILL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.
- 8) IF THE RYE SEEDING CANNOT BE COMPLETED BY OCTOBER 1ST OR IF THE RYE DOES NOT MAKE ADEQUATE GROWTH BY DECEMBER 1ST, THEN ON THOSE DATES, HAY MULCH WILL BE APPLIED AT 150 POUNDS PER 1,000 SQUARE FEET.

TYPICAL CONSTRUCTION NOTES:

- 1) REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER SYSTEM AND FILL EXTENSIONS.
- 2) PLACE AND COMPACT FILL IN 8" LIFTS USING SMALL EQUIPMENT (i.e., SMALL BULL DOZER)
- 3) NO WORK ON OR AROUND DISPOSAL SYSTEM SHALL BE COMPLETED WHEN ORIGINAL SOIL OR FILL IS WET OR FROZEN.
- 4) PROVIDE A 4" MINIMUM TRANSITION LAYER BY MIXING IMPORTED FILL MATERIAL INTO EXISTING SOIL USING A ROTO-TILLER OR DISK.
- 5) FILL EXTENSIONS AROUND DISPOSAL SYSTEM SHALL BE A GRAVELLY COARSE SAND TO COARSE SAND FILL MATERIAL SPECIFICATION BY VOLUME:
 - <5% GREATER THAN 3" DIAMETER
 - 15-30% GRAVEL (2mm-3" DIA.)
 - 4-8% PASSING A 200 SIEVE
 - 0-2% CLAY
- 6) BOTTOM OF DISPOSAL SYSTEM TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 2" PER 100'.
- 7) DO NOT ALLOW ANY TIRED EQUIPMENT ON DISPOSAL SYSTEM OR FILL EXTENSIONS.
- 8) INSULATE ALL PIPING TRANSPORTING EFFLUENT TO DISPOSAL SYSTEM WHERE EARTH COVER IS LESS THAN 5 FEET, REFER TO ATTACHED DETAIL.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Div of Environmental Health, 11 SHS
 (207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<
City, Town, or Plantation	BROOKSVILLE	The Subsurface Wastewater Disposal System <i>shall not</i> be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
Street or Road	OLD MINE ROAD	
Subdivision, Lot #	TAX MAP 9 LOT 29 (MDEP LOT B & C)	
OWNER/APPLICANT INFORMATION		
Name (last, first, MI) KATHERINE SANDECKI		<input checked="" type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant
Mailing Address of Owner/Applicant	214 EAST KINDEN AVE HADDON TWP, NJ 08108-1837	
Daytime Tel. #	Municipal Tax Map # _____ Lot # _____	
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.		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 _____ _____ Local Plumbing Inspector Signature (2nd) date approved _____
Signature of Owner or Applicant _____ Date _____		

PERMIT INFORMATION

TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>UNKNOWN</u> Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input checked="" type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
SIZE OF PROPERTY .75 ac± <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input checked="" type="checkbox"/> 3. Other: <u>1-3 BDRM AND 1 - 2 BDRM</u> (specify) Current Use <input checked="" type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input checked="" type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input checked="" type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: _____ GAL. 2-1,000 GAL 1-3 COMPART TANK	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input checked="" type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: <u>370</u> sq. ft. <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. 75% REDUCT. FOR SECONDARY TREATMENT	GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input checked="" type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW <u>450</u> GALLONS PER DAY <input checked="" type="checkbox"/> TABLE 501.1 (Dwelling units) <input type="checkbox"/> TABLE 501.2 (Other Facilities SHOW CALCULATIONS For other facilities 1- 3 BEDROOM DWELLING 1-2 BEDROOM DWELLING
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <u>9</u> / <u>D/III</u> / <u>4</u> at Observation Hole # <u>2</u> Depth <u>8</u> " of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small---2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium---2.6 sq. ft. / gpd <input type="checkbox"/> 3. Medium---Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large---4.1 sq. ft. / gpd <input checked="" type="checkbox"/> 5. Extra Large---5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. <u>44</u> d <u>21'</u> m <u>07.04</u> s Lon. <u>68</u> d <u>48</u> m <u>38.53</u> s If g.p.s. state margin of error <u>10'</u>

SITE EVALUATOR STATEMENT

I certify that on 11/18/10 (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).

DENNIS W. CURRAN, CES INC.

SE327

12/14/10

Site Evaluator Signature

SE #

Date

Site Evaluator Name Printed

Telephone Number

E-mail Address

207-989-4824

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation
 BROOKSVILLE

Street, Road, Subdivision
 OLD MINE ROAD

KATHERINE SANDECKI
 Owner's Name

SITE PLAN Scale 1" = 30' ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)
 See Attached Map

NOTES:

1. PROPERTY LINES SHOWN ON ATTACHED SITE SKETCH SHALL BE CONSIDERED APPROXIMATE. LOCATION OF PROPERTY LINES SHALL BE DETERMINED PRIOR TO INSTALLATION OF ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEMS.
2. SECONDARY TREATMENT SYSTEM SELECTED FOR THIS PROJECT ARE MANUFACTURED BY WASTEWATER ALTERNATIVE INC. THE CONTRACTOR SHALL INSTALL THE SECONDARY TREATMENT SYSTEM AS RECOMMENDED BY THE SELECTED MANUFACTURER.
3. BEDROCK DEPTH SHOWN ON TEST PIT LOGS WERE DEFINED USING A HAND SHOVEL AND AUGER. THE CONTRACTOR WILL BE REQUIRED TO DIG ADDITIONAL TEST PITS IN THE PROPOSED DISPOSAL AREA LOCATION PRIOR TO INSTALLATION OF THE DISPOSAL SYSTEM COMPONENTS . THE CONTRACTOR SHALL DIG ADDITIONAL TEST PIT WITH A BACKHOE AND IN THE PRESENTS OF A CES INC REPRESENTATIVE.
4. DISPOSAL AREA CONSTRUCTION ELEVATIONS MAY BE REVISED BASED ON ADDITIONAL TEST PIT FINDINGS.
5. DO NOT DISTURB EXISTING WASTEWATER DISPOSAL SYSTEM COMPONENTS UNTIL THE CES INC REPRESENTATIVE HAS CONDUCTED ADDITIONAL TESTS.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF PUMP STATION ALARM SYSTEM AND SECONDARY TREATMENT AERATION PUMP WITH HOME OWNER.
7. CONTRACTOR SHALL PROVIDE A MEANS FOR THE HOMEOWNER TO DISPOSE OF THE HOUSE HOLD WASTEWATER DURING CONSTRUCTION.
8. REFER TO TYPICAL CONSTRUCTION NOTES

REFER TO ATTACHED SITE SKETCH

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

Observation Hole TP 1 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	
10		FRIABLE	DARK BROWN	NONE OBSERVED
20	SILT LOAM		OLIVE BROWN	
30				
40			BOTTOM OF EXCAVATION	
50				

Soil Classification Profile <u>1</u>	Slope <u>3%</u> %	Limiting Factor <u>12</u> "	<input checked="" type="checkbox"/> Ground Water Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
--------------------------------------	-------------------	-----------------------------	--

Observation Hole TP 2 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	NONE
10	SILT LOAM	FRIABLE	DARK YELLOW	OBSERVED
20	SILTY CLAY	FIRM	OLIVE GRAY	COMMON DISTINCT
30			BROWN	
40			REFUSAL ASSUMED BEDROCK	
50				

Soil Classification Profile <u>9</u>	Slope <u>3%</u> %	Limiting Factor <u>8</u> "	<input checked="" type="checkbox"/> Ground Water Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
--------------------------------------	-------------------	----------------------------	--

[Signature]
 Site Evaluator Signature

327
 SE #

12/14/10
 Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

BROOKSVILLE

OLD MINE ROAD

KATHERINE SANDECKI

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

Observation Hole B1 Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
LOAM		BROWN	NONE
SILT LOAM	FRIABLE	YELLOW BROWN	OBSERVED
SILTY CLAY	FIRM	OLIVE BROWN	COMMON DISTINCT
REFUSAL ASSUMED BEDROCK			

Soil Classification <u>9</u> <u>DA III</u> Profile Condition	Slope <u>3</u> %	Limiting Factor <u>12</u> "	<input checked="" type="checkbox"/> Ground Water Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Pit Depth
--	---------------------	--------------------------------	--

Observation Hole B2 Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
LOAM		BROWN	NONE
SILT LOAM	FRIABLE	YELLOW BROWN	OBSERVED
SILT LOAM	FIRM	YELLOW BROWN	COMMON DISTINCT
BOTTOM OF BORING			

Soil Classification <u>1</u> <u>D</u> Profile Condition	Slope <u>3</u> %	Limiting Factor <u>14</u> "	<input type="checkbox"/> Ground Water Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Pit Depth
---	---------------------	--------------------------------	---

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

Observation Hole B3 Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
LOAM		BROWN	NONE
SILT LOAM	FRIABLE	YELLOW BROWN	OBSERVED
SILTY CLAY	FIRM	GRAY OLIVE BROWN	COMMON DISTINCT
REFUSAL ASSUMED BEDROCK			

Soil Classification <u>9</u> <u>DA III</u> Profile Condition	Slope <u>3</u> %	Limiting Factor <u>12</u> "	<input type="checkbox"/> Ground Water Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
--	---------------------	--------------------------------	---

Observation Hole _____ Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling

Soil Classification _____ Profile Condition	Slope _____%	Limiting Factor ____"	<input type="checkbox"/> Ground Water Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	-----------------	--------------------------	---

[Signature]

307

12/14/18

Site Evaluator Signature

SE #

Date

NOTES:
THIS PLAN INTENDED FOR WASTEWATER
DISPOSAL SYSTEM INSTALLATION ONLY.

EXISTING SITE PLAN OBTAINED FROM MDEP

EXISTING DISPOSAL SYSTEM COMPONENTS
LOCATIONS SHALL BE CONSIDERED
APPROXIMATE

PROPOSED 4" DIA. SDR 35
BELOW GRADE BUILDING SEWER.

REMOVE EXISTING
ABOVE GROUND GRAVITY
SEWER

REMOVE EXISTING WOOD FRAME
STRUCTURE, EXISTING SEPTIC
TANK AND PUMP

PROPOSED 1,000 GALLON SEPTIC
TANK WITH LIFT STATION

PROPOSED 2" DIA HDPE
FORCE MAIN

PROPOSED 1,500 GALLON
SEPTIC TANK

PROPOSED 4" DIA SDR
GRAVITY SEWER

REMOVE EXISTING
SEPTIC TANK

PROPOSED 3 COMPARTMENT
CONCRETE TANK AND SECONDARY
TREATMENT SYSTEM

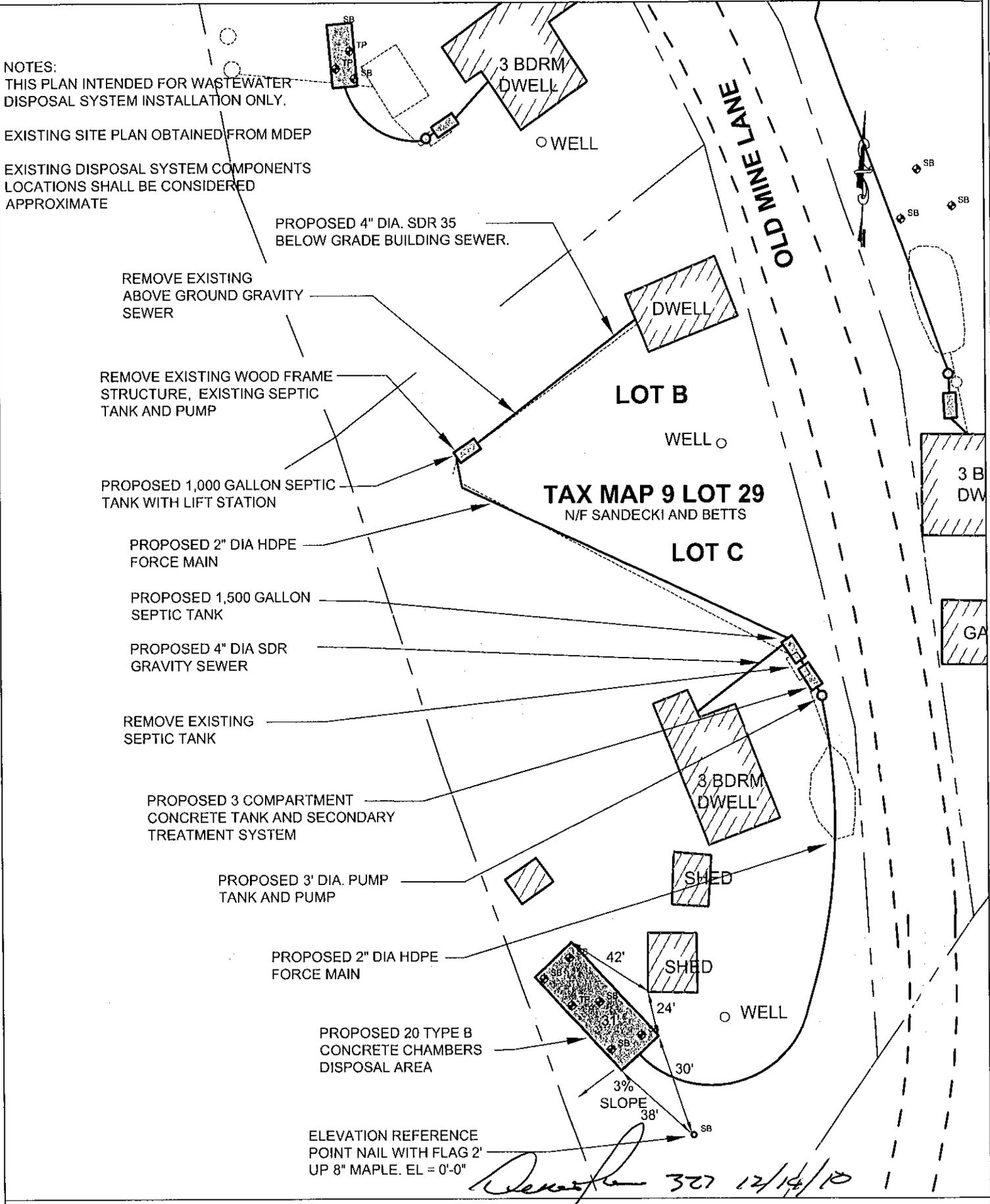
PROPOSED 3' DIA. PUMP
TANK AND PUMP

PROPOSED 2" DIA HDPE
FORCE MAIN

PROPOSED 20 TYPE B
CONCRETE CHAMBERS
DISPOSAL AREA

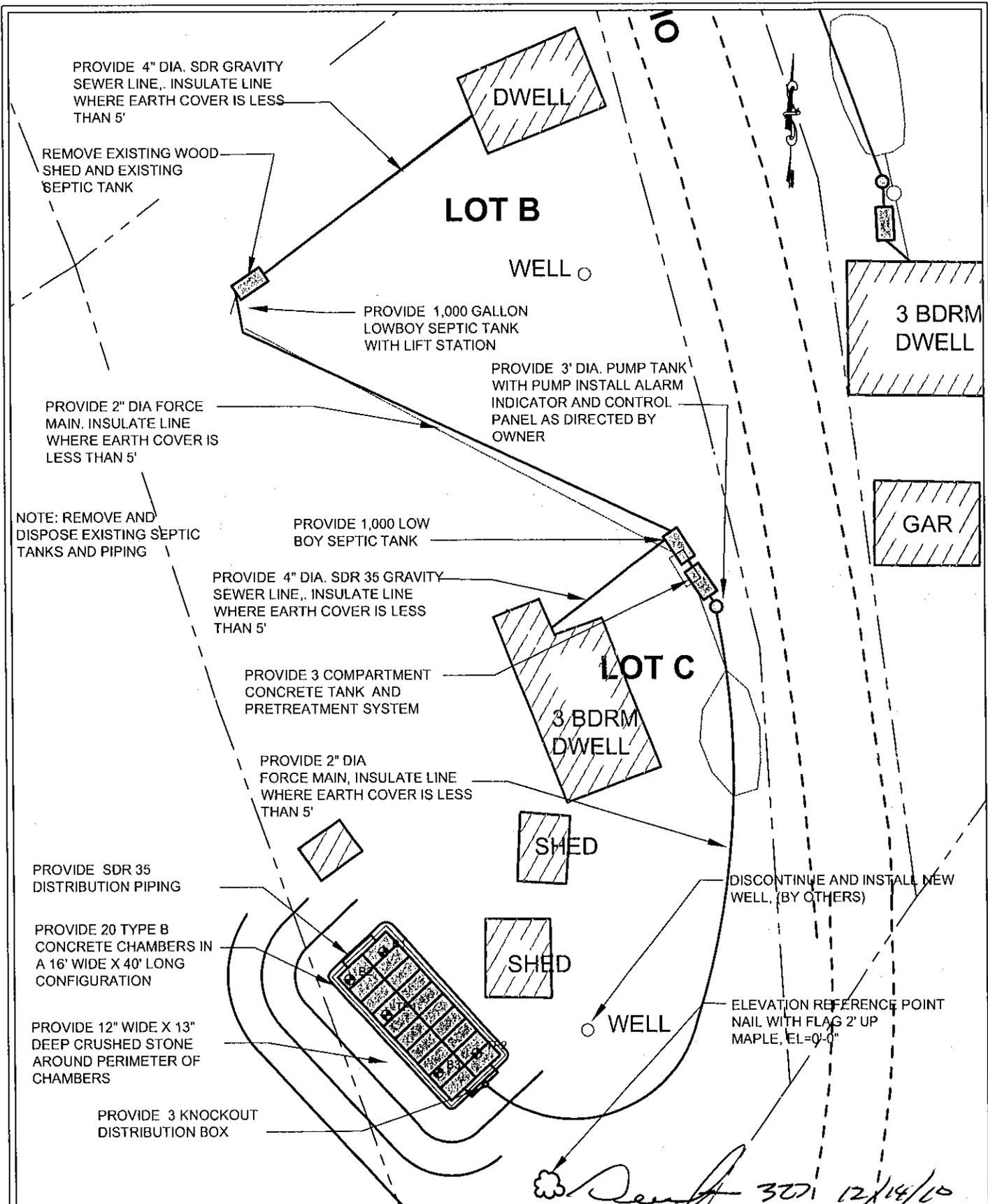
ELEVATION REFERENCE
POINT NAIL WITH FLAG 2'
UP 8" MAPLE. EL = 0'-0"

Revised 327 12/14/10



JOB TITLE CALLAHAN MINE-ONSITE WASTEWATER DESIGN	SCALE 1"=40'	DRAWN BY DWC	SHEET NUMBER 2C
SHEET TITLE SANDECKI AND BETTS	DATE 12/1/10	JOB NUMBER 5992	





Sandecki 3071 12/14/10

JOB TITLE CALLAHAN MINE-ONSITE WASTEWATER DESIGN	SCALE 1"=30"	DRAWN BY DWC	SHEET NUMBER
SHEET TITLE SANDECKI - DISPOSAL PLAN	DATE 12/14/10	JOB NUMBER 5992	3A



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

BROOKSVILLE

OLD MINE ROAD

SNADECKI

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.

REFER TO ATTACHED DISPOSAL PLAN

FILL REQUIREMENTS

Depth of Fill (Upslope) 16"
 Depth of Fill (Downslope) 30"

CONSTRUCTION ELEVATIONS

Finished Grade Elevation -3"
 Top of Distribution Pipe or Proprietary Device -15"
 Bottom of Disposal Area -28"

ELEVATION REFERENCE POINT

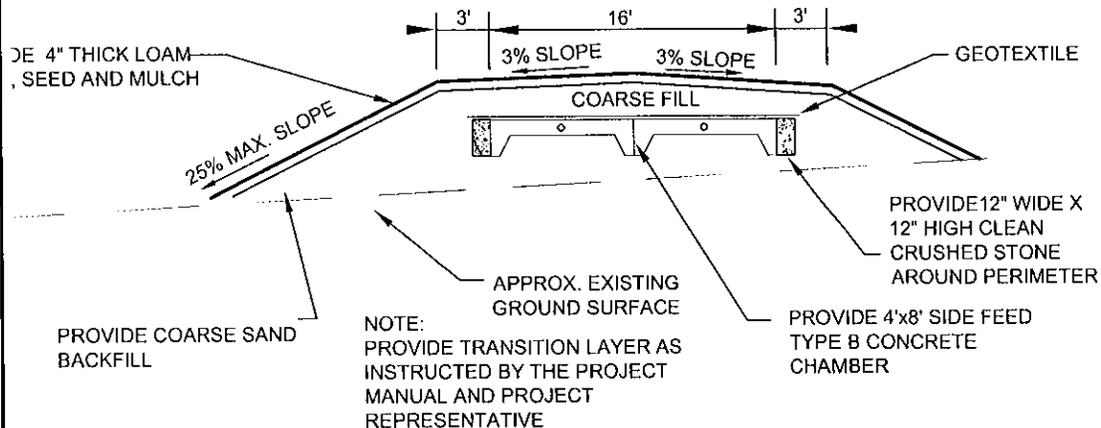
Location & Description:
NAIL WITH FLAG 2' UP MAPLE
 Reference Elevation: 0"

ION

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = 10 ft.
 Vertical 1" = 5 ft.



[Signature]
 Site Evaluator Signature

32)

SE #

12/14/10
 Date



EROSION CONTROL NOTES:

- 1) ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES, PUBLISHED BY THE C.C.S.W.C.D AND DATED MARCH 1991 (HEREINAFTER CALLED 1991 MAINE BMP HANDBOOK),
- 2) SILT FENCE WILL BE INSPECTED, REPLACED, AND/OR REPAIRED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR LOSS OF SERVICEABILITY DUE TO SEDIMENT ACCUMULATION. AT A MINIMUM, ALL EROSION CONTROL DEVICES WILL BE OBSERVED WEEKLY.
- 3) DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- 4) SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY A SUITABLE GROWTH OF GRASS. ONCE A SUITABLE GROWTH HAS BEEN OBTAINED, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED BY THE CONTRACTOR. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THEY ARE REMOVED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, SEEDED, AND MULCHED IMMEDIATELY.
- 5) ALL DISTURBED AREAS WILL BE SEEDED AND MULCHED.
- 6) A SUITABLE BINDER SUCH AS CURASOL OR TERRTACK WILL BE USED ON THE HAY MULCH FOR WIND CONTROL.
- 7) IF FINAL SEEDING OF DISTURBED AREAS IS NOT COMPLETED BY SEPTEMBER 15TH OF THE YEAR OF CONSTRUCTION, THEN ON THAT DATE THESE AREAS WILL BE GRADED AND SEEDED WITH WINTER RYE AT THE RATE OF 112 POUNDS PER ACRE OR 3 POUNDS PER 1,000 SQUARE FEET. THE RYE SEEDING WILL BE PRECEDED BY AN APPLICATION OF 3 TONS OF LIME AND 800 LBS. OF 10-20-20 FERTILIZER OR ITS EQUIVALENT. MULCH WILL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.
- 8) IF THE RYE SEEDING CANNOT BE COMPLETED BY OCTOBER 1ST OR IF THE RYE DOES NOT MAKE ADEQUATE GROWTH BY DECEMBER 1ST, THEN ON THOSE DATES, HAY MULCH WILL BE APPLIED AT 150 POUNDS PER 1,000 SQUARE FEET.

TYPICAL CONSTRUCTION NOTES:

- 1) REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER SYSTEM AND FILL EXTENSIONS.
- 2) PLACE AND COMPACT FILL IN 8" LIFTS USING SMALL EQUIPMENT (i.e., SMALL BULL DOZER)
- 3) NO WORK ON OR AROUND DISPOSAL SYSTEM SHALL BE COMPLETED WHEN ORIGINAL SOIL OR FILL IS WET OR FROZEN.
- 4) PROVIDE A 4" MINIMUM TRANSITION LAYER BY MIXING IMPORTED FILL MATERIAL INTO EXISTING SOIL USING A ROTO-TILLER OR DISK.
- 5) FILL EXTENSIONS AROUND DISPOSAL SYSTEM SHALL BE A GRAVELLY COARSE SAND TO COARSE SAND FILL MATERIAL SPECIFICATION BY VOLUME:
 - <5% GREATER THAN 3" DIAMETER
 - 15-30% GRAVEL (2mm-3" DIA.)
 - 4-8% PASSING A 200 SIEVE
 - 0-2% CLAY
- 6) BOTTOM OF DISPOSAL SYSTEM TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 2" PER 100'.
- 7) DO NOT ALLOW ANY TIRED EQUIPMENT ON DISPOSAL SYSTEM OR FILL EXTENSIONS.
- 8) INSULATE ALL PIPING TRANSPORTING EFFLUENT TO DISPOSAL SYSTEM WHERE EARTH COVER IS LESS THAN 5 FEET, REFER TO ATTACHED DETAIL.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<
City, Town, or Plantation	BROOKSVILLE	The Subsurface Wastewater Disposal System shall not be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
Street or Road	OLD MINE ROAD	
Subdivision, Lot #	TAX MAP 9 LOT 31 (MDEP LOT D)	
OWNER/APPLICANT INFORMATION		
Name (last, first, MI)	SARAH PETERS	
	<input checked="" type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	
Mailing Address of Owner/Applicant	616 PRENTICE STREET HOLLISTON, MASS 01746	
Daytime Tel. #		Municipal Tax Map # _____ Lot # _____
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.		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
Signature of Owner or Applicant _____ Date _____		_____ Local Plumbing Inspector Signature (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: UNKNOWN Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
SIZE OF PROPERTY 1.25 ac± <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input checked="" type="checkbox"/> 3. Other: 3 BDRM (specify) Current Use <input checked="" type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input checked="" type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input checked="" type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: _____ GAL. 1,000 GAL LOWBOY	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input checked="" type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 1408 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input checked="" type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW 270 GALLONS PER DAY <input checked="" type="checkbox"/> TABLE 501.1 (Dwelling units) <input type="checkbox"/> TABLE 501.2 (Other Facilities) SHOW CALCULATIONS For other facilities 3 BEDROOM DWELLING
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN 9 / D/III / 3 at Observation Hole # 1 Depth 10" of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small---2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium---2.6 sq. ft. / gpd <input type="checkbox"/> 3. Medium---Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large---4.1 sq. ft. / gpd <input checked="" type="checkbox"/> 5. Extra Large---5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 44 d 21' m 11.04 s Lon. 68 d 48 m 36.04 s If g.p.s, state margin of error 10'

SITE EVALUATOR STATEMENT

I certify that on 11/18/10 (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).

DENNIS W. CURRAN, CES INC.

SE327

12/14/10

Site Evaluator Signature

SE #

Date

Site Evaluator Name Printed

Telephone Number

E-mail Address

207-989-4824

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation
 BROOKSVILLE

Street, Road, Subdivision
 OLD MINE ROAD

SARAH PETERS
 Owner's Name

SITE PLAN Scale 1" = 30' ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)
 See Attached Map

NOTES:

- PROPERTY LINES SHOWN ON ATTACHED SITE SKETCH SHALL BE CONSIDERED APPROXIMATE. LOCATION OF PROPERTY LINES SHALL BE DETERMINED PRIOR TO INSTALLATION OF ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEMS.
- SECONDARY TREATMENT SYSTEM SELECTED FOR THIS PROJECT ARE MANUFACTURED BY WASTEWATER ALTERNATIVE INC. THE CONTRACTOR SHALL INSTALL THE SECONDARY TREATMENT SYSTEM AS RECOMMENDED BY THE SELECTED MANUFACTURER.
- BEDROCK DEPTH SHOWN ON TEST PIT LOGS WERE DEFINED USING A HAND SHOVEL AND AUGER. THE CONTRACTOR WILL BE REQUIRED TO DIG ADDITIONAL TEST PITS IN THE PROPOSED DISPOSAL AREA LOCATION PRIOR TO INSTALLATION OF THE DISPOSAL SYSTEM COMPONENTS. THE CONTRACTOR SHALL DIG ADDITIONAL TEST PIT WITH A BACKHOE AND IN THE PRESENTS OF A CES INC REPRESENTATIVE.
- DISPOSAL AREA CONSTRUCTION ELEVATIONS MAY BE REVISED BASED ON ADDITIONAL TEST PIT FINDINGS.
- DO NOT DISTURB EXISTING WASTEWATER DISPOSAL SYSTEM COMPONENTS UNTIL THE CES INC REPRESENTATIVE HAS CONDUCTED ADDITIONAL TESTS.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF PUMP STATION ALARM SYSTEM AND WITH HOME OWNER.
- CONTRACTOR SHALL PROVIDE A MEANS FOR THE HOMEOWNER TO DISPOSE OF THE HOUSE HOLD WASTEWATER DURING CONSTRUCTION.
- REFER TO TYPICAL CONSTRUCTION NOTES

REFER TO ATTACHED SITE SKETCH

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

Observation Hole TP 1 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	NONE
	SILT		DARK	OBSERVED
10	LOAM	FRIABLE	YELLOW	
				COMMON
		FIRM	OLIVE	DISTINCT
20	SILTY CLAY		GRAY	
			BROWN	
30		REFUSAL		
		ASSUMED		
40		BEDROCK		
50				

Soil Classification 9 D/All Profile Condition	Slope 5 %	Limiting Factor 10"	<input checked="" type="checkbox"/> Ground Water Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	--------------	------------------------	--

Observation Hole TP 2 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	
	SILT		DARK	
10	LOAM	FRIABLE	YELLOW	
				COMMON
		FIRM	OLIVE	DISTINCT
20	SILTY CLAY		GRAY	
			BROWN	
30		REFUSAL		
		ASSUMED		
40		BEDROCK		
50				

Soil Classification 9 D/All Profile Condition	Slope 5 %	Limiting Factor 12"	<input checked="" type="checkbox"/> Ground Water Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	--------------	------------------------	--

[Signature]
 Site Evaluator Signature

377
 SE #

12/19/18
 Date

NOTES:
THIS PLAN INTENDED FOR WASTEWATER
DISPOSAL SYSTEM INSTALLATION ONLY.

EXISTING SITE PLAN OBTAINED FROM MDEP

EXISTING DISPOSAL SYSTEM COMPONENTS
LOCATIONS SHALL BE CONSIDERED
APPROXIMATE

TAX MAP 9 LOT 31

N/F PETERS

EXISTING WELL TO BE
DISCONTINUED BY
OTHERS

ELEVATION REFERENCE
POINT, NAIL WITH FLAG 3'
UP BIRCH

WELL

5%
SLOPE

PROPOSED 22 TYPE B
CONCRETE CHAMBER
DISPOSAL AREA

16'

32'

PROPOSED 2" DIA. HDPE
FORCE MAIN

85'

OLD MINE LANE

WELL

DWELL

LOT B

WELL

AX MAP 9 LOT 29

N/F SANDECKI AND BETTS

LOT C

PROPOSED 3' DIA. PUMP
TANK AND PUMP

REMOVE EXISTING
SEPTIC TANK

PROPOSED 1,000 GALLON
LOW BOY SEPTIC TANK

PROPOSED 4" DIA SDR 35
BUILDING SEWER

REMOVE EXISTING
BUILDING SEWER

LOT D

3 BDRM
DWELL

GAR

GOOSE

Deutz 321 12/14/10

JOB TITLE
CALLAHAN MINE-ONSITE WASTEWATER DESIGN

SCALE
1"=40'

DRAWN BY
DWC

SHEET NUMBER

SHEET TITLE
PETERS

DATE
12/1/10

JOB NUMBER
5992

2C

CES INC
ENGINEERING · SURVEYING · PLANNING · SCENES

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

BROOKSVILLE

OLD MINE ROAD

PETER

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.

REFER TO ATTACHED DISPOSAL PLAN

FILL REQUIREMENTS

Depth of Fill (Upslope) 30"
 Depth of Fill (Downslope) 42"

CONSTRUCTION ELEVATIONS

Finished Grade Elevation -14"
 Top of Distribution Pipe or Proprietary Device -26"
 Bottom of Disposal Area -39"

ELEVATION REFERENCE POINT

Location & Description:
NAIL WITH FLAG UP BIRCH
 Reference Elevation: 0"

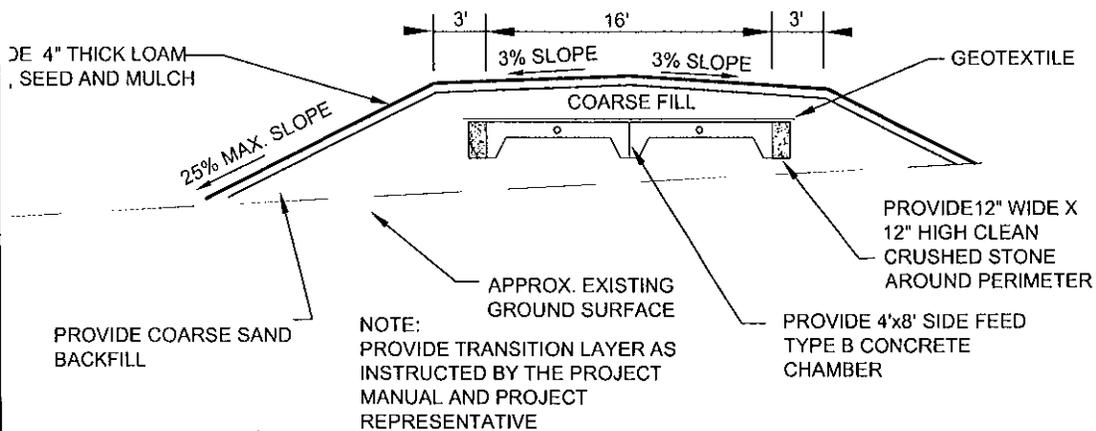
ION

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = 10 ft.

Vertical 1" = 5 ft.



[Signature]
 Site Evaluator Signature

307

SE #

12/14/10
 Date

EROSION CONTROL NOTES:

- 1) ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES, PUBLISHED BY THE C.C.S.W.C.D AND DATED MARCH 1991 (HEREINAFTER CALLED 1991 MAINE BMP HANDBOOK),
- 2) SILT FENCE WILL BE INSPECTED, REPLACED, AND/OR REPAIRED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR LOSS OF SERVICEABILITY DUE TO SEDIMENT ACCUMULATION. AT A MINIMUM, ALL EROSION CONTROL DEVICES WILL BE OBSERVED WEEKLY.
- 3) DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- 4) SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY A SUITABLE GROWTH OF GRASS. ONCE A SUITABLE GROWTH HAS BEEN OBTAINED, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED BY THE CONTRACTOR. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THEY ARE REMOVED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, SEEDED, AND MULCHED IMMEDIATELY.
- 5) ALL DISTURBED AREAS WILL BE SEEDED AND MULCHED.
- 6) A SUITABLE BINDER SUCH AS CURASOL OR TERRTACK WILL BE USED ON THE HAY MULCH FOR WIND CONTROL.
- 7) IF FINAL SEEDING OF DISTURBED AREAS IS NOT COMPLETED BY SEPTEMBER 15TH OF THE YEAR OF CONSTRUCTION, THEN ON THAT DATE THESE AREAS WILL BE GRADED AND SEEDED WITH WINTER RYE AT THE RATE OF 112 POUNDS PER ACRE OR 3 POUNDS PER 1,000 SQUARE FEET. THE RYE SEEDING WILL BE PRECEDED BY AN APPLICATION OF 3 TONS OF LIME AND 800 LBS. OF 10-20-20 FERTILIZER OR ITS EQUIVALENT. MULCH WILL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.
- 8) IF THE RYE SEEDING CANNOT BE COMPLETED BY OCTOBER 1ST OR IF THE RYE DOES NOT MAKE ADEQUATE GROWTH BY DECEMBER 1ST, THEN ON THOSE DATES, HAY MULCH WILL BE APPLIED AT 150 POUNDS PER 1,000 SQUARE FEET.

TYPICAL CONSTRUCTION NOTES:

- 1) REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER SYSTEM AND FILL EXTENSIONS.
- 2) PLACE AND COMPACT FILL IN 8" LIFTS USING SMALL EQUIPMENT (i.e., SMALL BULL DOZER)
- 3) NO WORK ON OR AROUND DISPOSAL SYSTEM SHALL BE COMPLETED WHEN ORIGINAL SOIL OR FILL IS WET OR FROZEN.
- 4) PROVIDE A 4" MINIMUM TRANSITION LAYER BY MIXING IMPORTED FILL MATERIAL INTO EXISTING SOIL USING A ROTO-TILLER OR DISK.
- 5) FILL EXTENSIONS AROUND DISPOSAL SYSTEM SHALL BE A GRAVELLY COARSE SAND TO COARSE SAND FILL MATERIAL SPECIFICATION BY VOLUME:
 - <5% GREATER THAN 3" DIAMETER
 - 15-30% GRAVEL (2mm-3" DIA.)
 - 4-8% PASSING A 200 SIEVE
 - 0-2% CLAY
- 6) BOTTOM OF DISPOSAL SYSTEM TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 2" PER 100'.
- 7) DO NOT ALLOW ANY TIRED EQUIPMENT ON DISPOSAL SYSTEM OR FILL EXTENSIONS.
- 8) INSULATE ALL PIPING TRANSPORTING EFFLUENT TO DISPOSAL SYSTEM WHERE EARTH COVER IS LESS THAN 5 FEET, REFER TO ATTACHED DETAIL.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Div of Environmental Health, 11 SHS
 (207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<
City, Town, or Plantation	BROOKSVILLE	The Subsurface Wastewater Disposal System <i>shall not</i> be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
Street or Road	OLD MINE ROAD	
Subdivision, Lot #	TAX MAP 9 LOT 32 (MDEP LOT E)	
OWNER/APPLICANT INFORMATION		
Name (last, first, MI)	MURRY GRAY	<input checked="" type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant
Mailing Address of Owner/Applicant	P.O. BOX 818 BLUE HILL, MAINE 04614	
Daytime Tel. #		Municipal Tax Map # _____ Lot # _____
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.		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 _____ _____ Local Plumbing Inspector Signature (2nd) date approved _____
Signature of Owner or Applicant _____ Date _____		

PERMIT INFORMATION

TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>OBD</u> Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
SIZE OF PROPERTY 0.5 ac± <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input checked="" type="checkbox"/> 3. Other: <u>3 BDRM</u> (specify) Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input checked="" type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other
SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input checked="" type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: _____ GAL. 1,000	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input checked="" type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: <u>896</u> sq. ft. <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input checked="" type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW <u>180</u> GALLONS PER DAY <input checked="" type="checkbox"/> TABLE 501.1 (Dwelling units) <input type="checkbox"/> TABLE 501.2 (Other Facilities) SHOW CALCULATIONS For other facilities 3 BEDROOM DWELLING
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <u>9</u> / <u>D/III</u> / <u>4</u> at Observation Hole # <u>2</u> Depth <u>9</u> " of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small---2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium---2.6 sq. ft. / gpd <input type="checkbox"/> 3. Medium---Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large---4.1 sq. ft. / gpd <input checked="" type="checkbox"/> 5. Extra Large---5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. <u>44</u> d <u>21</u> m <u>08.57</u> s Lon. <u>68</u> d <u>48</u> m <u>18.76</u> s If g.p.s. state margin of error <u>10'</u>

SITE EVALUATOR STATEMENT

I certify that on 11/18/10 (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).

DENNIS W. CURRAN, CES INC.

SE327

12/14/10

Site Evaluator Signature

SE #

Date

Site Evaluator Name Printed

Telephone Number

E-mail Address

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation
 BROOKSVILLE

Street, Road, Subdivision
 OLD MINE ROAD

MURRY GRAY
 Owner's Name

SITE PLAN Scale 1" = 30' ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)
 See Attached Map

NOTES:

- PROPERTY LINES SHOWN ON ATTACHED SITE SKETCH SHALL BE CONSIDERED APPROXIMATE. LOCATION OF PROPERTY LINES SHALL BE DETERMINED PRIOR TO INSTALLATION OF ONSITE WASTEWATER DISPOSAL SYSTEMS.
- SECONDARY TREATMENT SYSTEM DESIGNED FOR THIS PROJECT ARE MANUFACTURED BY WASTEWATER ALTERNATIVE INC. THE CONTRACTOR SHALL INSTALL THE SYSTEMS AS RECOMMENDED BY THE SELECTED MANUFACTURER.
- BEDROCK DEPTH SHOWN ON TEST PIT LOGS WERE DEFINED USING A HAND SHOVEL AND AUGER. THE CONTRACTOR WILL BE REQUIRED TO DIG ADDITIONAL TEST PITS IN THE PROPOSED DISPOSAL AREA LOCATION PRIOR TO INSTALLATION OF THE DISPOSAL SYSTEM COMPONENTS . THE CONTRACTOR SHALL DIG ADDITIONAL TEST PIT WITH A BACKHOE AND IN THE PRESENTS OF A CES INC REPRESENTATIVE.
- DISPOSAL AREA CONSTRUCTION ELEVATIONS MAY BE REVISED BASED ON ADDITIONAL TEST PIT FINDINGS.
- DO NOT DISTURB EXISTING WASTEWATER DISPOSAL SYSTEM COMPONENTS UNTIL THE CES INC REPRESENTATIVE HAS CONDUCTED ADDITIONAL TESTS.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF PUMP STATION ALARM SYSTEM WITH HOME OWNER.
- CONTRACTOR SHALL PROVIDE A MEANS FOR THE HOMEOWNER TO DISPOSE OF THE HOUSE HOLD WASTEWATER DURING CONSTRUCTION.
- REFER TO TYPICAL CONSTRUCTION NOTES

REFER TO ATTACHED SITE SKETCH

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

Observation Hole TP 1 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	NONE
5	SILT LOAM	FRIABLE	DARK YELLOW	OBSERVED
10				
15	SILTY CLAY	FIRM	OLIVE GRAY BROWN	COMMON DISTINCT
20				
30				
35				
40				
50				

Soil Classification 9 D Profile Condition	Slope 5% %	Limiting Factor 10" "	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	---------------	--------------------------	--

Observation Hole TP 2 Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	LOAM		BROWN	NONE
5	SILT LOAM	FRIABLE	DARK YELLOW	OBSERVED
10				
15	SILTY CLAY	FIRM	GRAY BROWN	COMMON DISTINCT
20				
30				
35				
40				
50				

Soil Classification 9 D/All Profile Condition	Slope 5% %	Limiting Factor 9" "	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	---------------	-------------------------	--

[Signature]
 Site Evaluator Signature

307
 SE #

12/14/10
 Date

NOTES:
THIS PLAN INTENDED FOR WASTEWATER
DISPOSAL SYSTEM INSTALLATION ONLY.

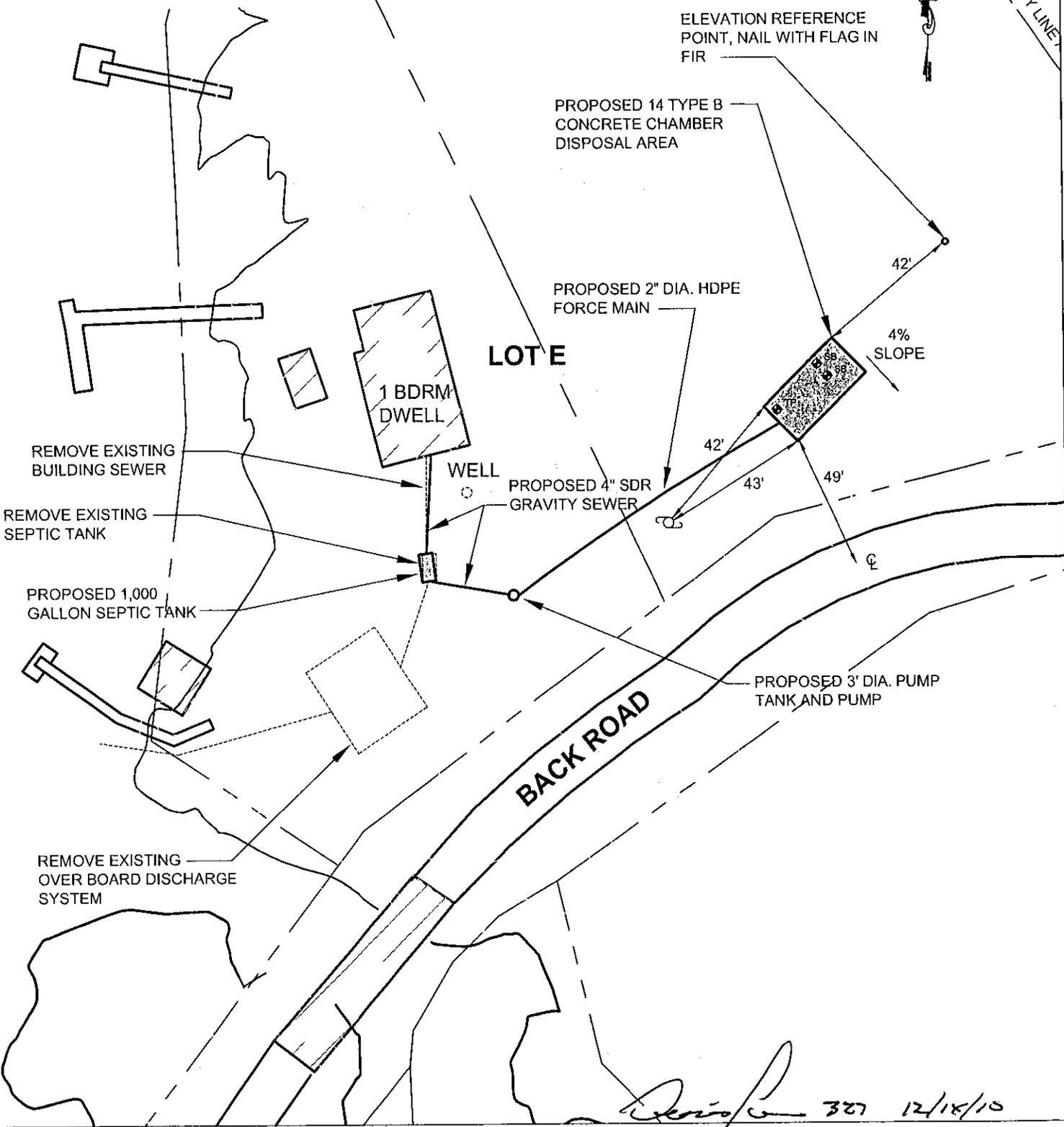
EXISTING SITE PLAN OBTAINED FROM MDEP

EXISTING DISPOSAL SYSTEM COMPONENTS
LOCATIONS SHALL BE CONSIDERED
APPROXIMATE

TAX MAP 9 LOT 32
N/F GRAY

ELEVATION REFERENCE
POINT, NAIL WITH FLAG IN
FIR

PROPERTY LINE



[Handwritten Signature] 327 12/18/10

JOB TITLE CALLAHAN MINE - ONSITE WASTEWATER DESIGN	SCALE 1"=40'	DRAWN BY DWC	SHEET NUMBER 2C
SHEET TITLE GRAY	DATE 12/1/10	JOB NUMBER 5992	CES INC ENGINEERING • SURVEYING • PLANNING • SOILS

NOTE:
EASEMENT REQUIRED TO CONSTRUCT
WASTEWATER DISPOSAL AREA AND
PIPING ON ABUTTING LAND

ELEVATION REFERENCE POINT
NAIL WITH FLAG IN FIR, EL.=0'-0"

LOT E

PROVIDE AND INSTALL 14 TYPE B
CONCRETE CHAMBERS IN A 16' WIDE
X 44' LONG CONFIGURATION

PROVIDE AND INSTALL 12"
WIDE X 13" DEEP CRUSHED
STONE AROUND PERIMETER
OF CHAMBERS

1 BDRM
DWELL

WELL

PROVIDE 4" DIA. SDR GRAVITY
SEWER LINE. INSULATE LINE
WHERE EARTH COVER IS LESS
THAN 5'

REMOVE EXIST.
BUILDING SEWER

PROVIDE AND INSTALL
1,000 GALLON LOWBOY
SEPTIC TANK

PROVIDE AND INSTALL 2" DIA.
HDPE FORCE MAIN. INSULATE
LINE WHERE EARTH COVER IS
LESS THAN 5'

BACK ROAD

PROVIDE AND INSTALL 3' DIA.
PUMP TANK WITH PUMP.
LOCATE ALARM INDICATOR
AS DIRECTED BY OWNER

INSTALL 4" SOLID SCH 40
PVC GRAVITY LINE

REMOVE EXISTING SEPTIC
TANK AND OVERBOARD
DISCHARGE SYSTEM

[Signature] 327 12/14/10

JOB TITLE
CALLAHAN MINE - ONSITE WASTEWATER DESIGN

SCALE
1"=30'

DRAWN BY
DWC

SHEET NUMBER

SHEET TITLE
GRAY - DISPOSAL PLAN

DATE
12/1/10

JOB NUMBER
5992

3A

CES INC
ENGINEERING · SURVEYING · PLUMBING · SCIENCE

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

BROOKSVILLE

BACK ROAD

GRAY

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.

REFER TO ATTACHED DISPOSAL PLAN

FILL REQUIREMENTS

Depth of Fill (Upslope) 31"
 Depth of Fill (Downslope) 40"

CONSTRUCTION ELEVATIONS

Finished Grade Elevation +2"
 Top of Distribution Pipe or Proprietary Device -10"
 Bottom of Disposal Area -23"

ELEVATION REFERENCE POINT

Location & Description:
NAIL WITH FLAG UP BIRCH
 Reference Elevation: 0"

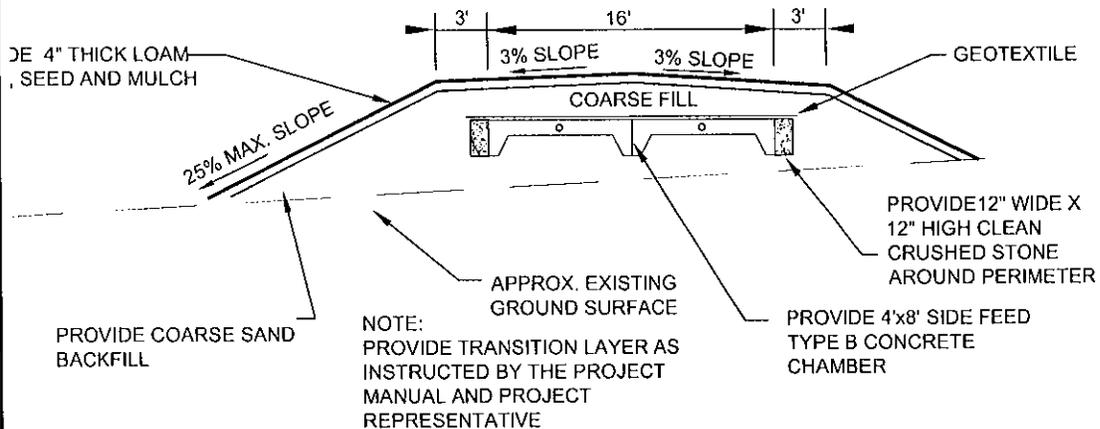
ION

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = 10 ft.

Vertical 1" = 5 ft.



[Signature]
 Site Evaluator Signature

327

SE #

12/14/00

Date

EROSION CONTROL NOTES:

- 1) ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES, PUBLISHED BY THE C.C.S.W.C.D AND DATED MARCH 1991 (HEREINAFTER CALLED 1991 MAINE BMP HANDBOOK).
- 2) SILT FENCE WILL BE INSPECTED, REPLACED, AND/OR REPAIRED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR LOSS OF SERVICEABILITY DUE TO SEDIMENT ACCUMULATION. AT A MINIMUM, ALL EROSION CONTROL DEVICES WILL BE OBSERVED WEEKLY.
- 3) DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- 4) SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY A SUITABLE GROWTH OF GRASS. ONCE A SUITABLE GROWTH HAS BEEN OBTAINED, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED BY THE CONTRACTOR. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THEY ARE REMOVED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, SEEDED, AND MULCHED IMMEDIATELY.
- 5) ALL DISTURBED AREAS WILL BE SEEDED AND MULCHED.
- 6) A SUITABLE BINDER SUCH AS CURASOL OR TERRTACK WILL BE USED ON THE HAY MULCH FOR WIND CONTROL.
- 7) IF FINAL SEEDING OF DISTURBED AREAS IS NOT COMPLETED BY SEPTEMBER 15TH OF THE YEAR OF CONSTRUCTION, THEN ON THAT DATE THESE AREAS WILL BE GRADED AND SEEDED WITH WINTER RYE AT THE RATE OF 112 POUNDS PER ACRE OR 3 POUNDS PER 1,000 SQUARE FEET. THE RYE SEEDING WILL BE PRECEDED BY AN APPLICATION OF 3 TONS OF LIME AND 800 LBS. OF 10-20-20 FERTILIZER OR ITS EQUIVALENT. MULCH WILL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.
- 8) IF THE RYE SEEDING CANNOT BE COMPLETED BY OCTOBER 1ST OR IF THE RYE DOES NOT MAKE ADEQUATE GROWTH BY DECEMBER 1ST, THEN ON THOSE DATES, HAY MULCH WILL BE APPLIED AT 150 POUNDS PER 1,000 SQUARE FEET.

TYPICAL CONSTRUCTION NOTES:

- 1) REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER SYSTEM AND FILL EXTENSIONS.
- 2) PLACE AND COMPACT FILL IN 8" LIFTS USING SMALL EQUIPMENT (i.e., SMALL BULL DOZER)
- 3) NO WORK ON OR AROUND DISPOSAL SYSTEM SHALL BE COMPLETED WHEN ORIGINAL SOIL OR FILL IS WET OR FROZEN.
- 4) PROVIDE A 4" MINIMUM TRANSITION LAYER BY MIXING IMPORTED FILL MATERIAL INTO EXISTING SOIL USING A ROTO-TILLER OR DISK.
- 5) FILL EXTENSIONS AROUND DISPOSAL SYSTEM SHALL BE A GRAVELLY COARSE SAND TO COARSE SAND FILL MATERIAL SPECIFICATION BY VOLUME:
 - <5% GREATER THAN 3" DIAMETER
 - 15-30% GRAVEL (2mm-3" DIA.)
 - 4-8% PASSING A 200 SIEVE
 - 0-2% CLAY
- 6) BOTTOM OF DISPOSAL SYSTEM TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 2" PER 100'.
- 7) DO NOT ALLOW ANY TIRED EQUIPMENT ON DISPOSAL SYSTEM OR FILL EXTENSIONS.
- 8) INSULATE ALL PIPING TRANSPORTING EFFLUENT TO DISPOSAL SYSTEM WHERE EARTH COVER IS LESS THAN 5 FEET, REFER TO ATTACHED DETAIL.