PIF 8/21/12

Not Scanned

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION

City, Town, or Plantation	Augusta
Street or Road	Old Belgrade Road
Subdivision, Lot #	35 Medical Center Parkway

AUGUSTA PERMIT #66108
Date Permit Issued: 8/21/12
Mary R. Fuller

15.00
TOWN COPY
$ 250.00 fee
LPI # 850

OWNER/APPLICANT INFORMATION

Name (last, first, MI) c/o John Milbrand	Maine General Medical Center — X Owner, X Applicant
Mailing Address of Owner/Applicant	149 North Street Waterville, Maine 04901
Daytime Tel. #	207-872-1170

Municipal Tax Map # 1 Lot # 2

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.

John Milbrand — Signature of Owner or Applicant — 8/15/12 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.

(1st) date approved

Local Plumbing Inspector Signature — (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION
- X 1. First Time System
- ☐ 2. Replacement System
  - Type replaced: ____
  - Year installed: ____
- ☐ 3. Expanded System
  - ☐ a. <25% Expansion
  - ☐ b. ≥25% Expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

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

DISPOSAL SYSTEM COMPONENTS
- X 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

SIZE OF PROPERTY
172.28 ☐ SQ. FT. X ACRES

DISPOSAL SYSTEM TO SERVE
- ☐ 1. Single Family Dwelling Unit, No. of Bedrooms: ____
- ☐ 2. Multiple Family Dwelling, No. of Units: ____
- X 3. Other: Maintenance Building (specify)

Current Use ☐ Seasonal ☐ Year Round X Undeveloped

TYPE OF WATER SUPPLY
Proposed
X 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private
☐ 4. Public ☐ 5. Other

SHORELAND ZONING
☐ Yes X No

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
- X 1. Concrete
  - X a. Regular H-20 load
  - ☐ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other: ____

CAPACITY: 1000 GAL.

DISPOSAL FIELD TYPE & SIZE
- ☐ 1. Stone Bed ☐ 2. Stone Trench
- X 3. Proprietary Device
  - ☐ a. cluster array X c. Linear
  - ☐ b. regular load X d. H-20 load
- ☐ 4. Other: ____

SIZE: 539 X sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT
X 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
90 gallons per day
BASED ON:
- ☐ 1. Table 4A (dwelling unit(s))
- X 2. Table 4C(other facilities)

SHOW CALCULATIONS for other facilites
6 employees/day X 15GPD/employee
=90GPD (90 GPD)
- ☐ 3. Section 4G (meter readings)

ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS
PROFILE CONDITION
9 / D
at Observation Hole # TP104
Depth 13 "
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
- ☐ 1. Medium---2.6 sq. ft. / gpd
- ☐ 2. Medium---Large 3.3 sq. f.t / gpd
- ☐ 3. Large---4.1 sq. ft. / gpd
- X 4. Extra Large---5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP
X 1. Not Required (with proper sewer line and septic tank elevations)
- ☐ 2. May Be Required
- ☐ 3. Required

Specify only for engineered systems:
DOSE: ____ gallons

LATITUDE AND LONGITUDE
at center of disposal area
Lat. 44 d 21 m 56.38 s
Lon. 69 d 46 m 39.49 s
if g.p.s. state margin of error: 3'

SITE EVALUATOR STATEMENT

I certify that on 3/4/11 (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	213 SE #	8/07/12 Date
Stephen H. Howell Site Evaluator Name Printed	848-5714 Telephone Number	for S.W. Cole Engineering, Inc. E-mail Address

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

FORM F 2/02

SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT SITES

Project Name:	Applicant Name:	Project Location (municipality):
Proposed Hospital Maint. Bldg.	Maine General Medical Center	Augusta

Exploration Symbol: TP- 102 ☒ test pit

0" Organic horizon thickness Ground surface elev.

Depth below mineral soil surface (inches)

Depth	Texture	Consistency	Color	Mottling
0				
6				
12	silt loam	friable	10YR 4/4	none
18			10YR 5/6	10YR 4/6 c, f
24		firm	2.5Y 3/3	10YR 4/6 c, f 5Y 5/3 c, m
30	silty clay loam			
36				
42	limit of observation = 72"			
48	very fine sandy loam	friable (saturated)	2.5Y 5/3	

soil data by S.E. ⇒	Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	☒ Groundwater ☐ Restrictive Layer ☐ Bedrock
	9	D	8	13"	

soil data by S.S. ⇒	Soil series/phase name:		Hydrologic Soil Group
	Pushaw	☐ Hydric ☒ Non-hydric	C

Exploration Symbol: TP- 103 ☒ test pit

0" Organic horizon thickness Ground surface elev.

Depth below mineral soil surface (inches)

Depth	Texture	Consistency	Color	Mottling
0				
6			10YR 4/4	
12	silt loam	friable		none
18			10YR 5/6	
24		firm	2.5Y 4/3	7.5YR 4/6 c, f
30		friable (saturated)	2.5Y 5/3	
36				
42	limit of observation = 72"			
48				

soil data by S.E. ⇒	Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	☒ Groundwater ☐ Restrictive Layer ☐ Bedrock
	9	D	8	14"	

soil data by S.S. ⇒	Soil series/phase name:		Hydrologic Soil Group
	Pushaw	☐ Hydric ☒ Non-hydric	C

Exploration Symbol: ☐ test pit

" Organic horizon thickness Ground surface elev.

Depth below mineral soil surface (inches)

Depth	Texture	Consistency	Color	Mottling
0				
6				
12				
18				
24				
30				
36				
42				
48				

soil data by S.E. ⇒	Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	☐ Groundwater ☐ Restrictive Layer ☐ Bedrock

soil data by S.S. ⇒	Soil series/phase name:		Hydrologic Soil Group
		☐ Hydric ☐ Non-hydric	

Exploration Symbol:

" Organic horizon thickness Ground surface elev.

Depth below mineral soil surface (inches)

Depth	Texture	Consistency	Color	Mottling
0				
6				
12				
18				
24				
30				
36				
42				
48				

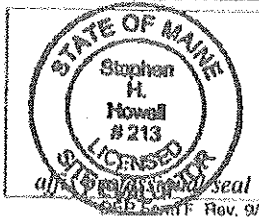
soil data by S.E. ⇒	Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	☐ Groundwater ☐ Restrictive Layer ☐ Bedrock

soil data by S.S. ⇒	Soil series/phase name:		Hydrologic Soil Group
		☐ Hydric ☐ Non-hydric	

INVESTIGATOR INFORMATION AND SIGNATURE

Signature: [signature]	Date: 2/15/11
Name Printed/typed: Stephen H. Howell	Cert/Lic/Reg. # SE # 213
Title: ⊘ Licensed Site Evaluator ☐ Certified Geologist	X Certified Soil Scientist ☐ Other:

STATE OF MAINE Stephen H. Howell # 213 LICENSED SITE EVALUATOR



affix professional seal

DEP Form F Rev. 9/01

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Division of Environmental Health, STS 11
(207) 287-5338 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
Augusta	Old Belgrade Road	Maine General Medical Center

SITE PLAN

Scale: 1" = _____ ft.

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

See Attached Sheet 1

SOIL PROFILE DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole # TP104 ☒ Test Pit ☐ Boring

0 " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
6				
12				
18				
24				
30				
36				
42				
48				

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
9	D	8	13	☒ Groundwater ☐ Restrictive Layer ☐ Bedrock

Observation Hole # TP105&6 ☒ Test Pit ☐ Boring

0 " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
6				
12				
18				
24				
30				
36				
42				
48				

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
9	D	8	13	☒ Groundwater ☐ Restrictive Layer ☐ Bedrock

Site Evaluator Signature

213
SE #

9/07/12
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Division of Environmental Health, STS 11
(207) 287-5338 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
Augusta	Old Belgrade Road	Maine General Medical Center

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 ft.

See Attached Sheet 2

BACKFILL REQUIREMENTS

Depth of Backfill (upslope) _____"
Depth of Backfill (downslope) _____"
DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation _____"
Top of Distribution Pipe or Proprietary Device _____"
Bottom of Disposal Field _____"

ELEVATION REFERENCE POINT

Location & Description: _____

Reference Elevation is: 0.0" or: _____

DISPOSAL FIELD CROSS-SECTION

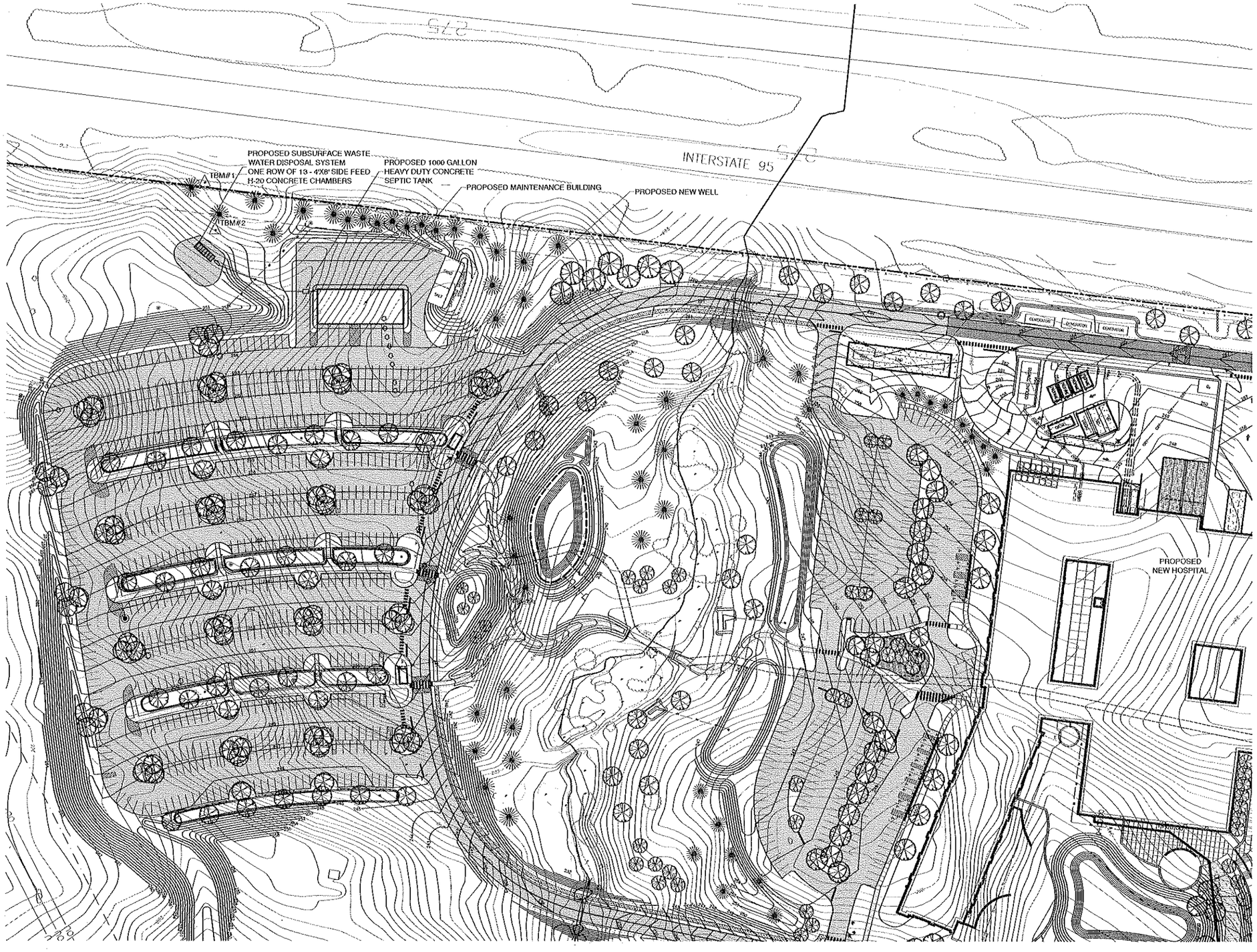
Scales:
Vertical: 1" = _____ ft.
Horizontal: 1" = _____ ft.

See Attached Sheet 2

Site Evaluator Signature

213
SE #

8/07/12
Date



NOTES:

1. SITE PLAN PREPARED FROM A SCALE PLAN OF THE SITE FROM SMRT, ACCESSED FROM THE SMRT PROJECT FTP SITE, MARCH2, 2011.

NO.	DATE	DESCRIPTION	BY
1	06/09/2012	REVISED DISPOSAL SYSTEM LAYOUT	CEM

0 30 60 120 180 240
SCALE IN FEET

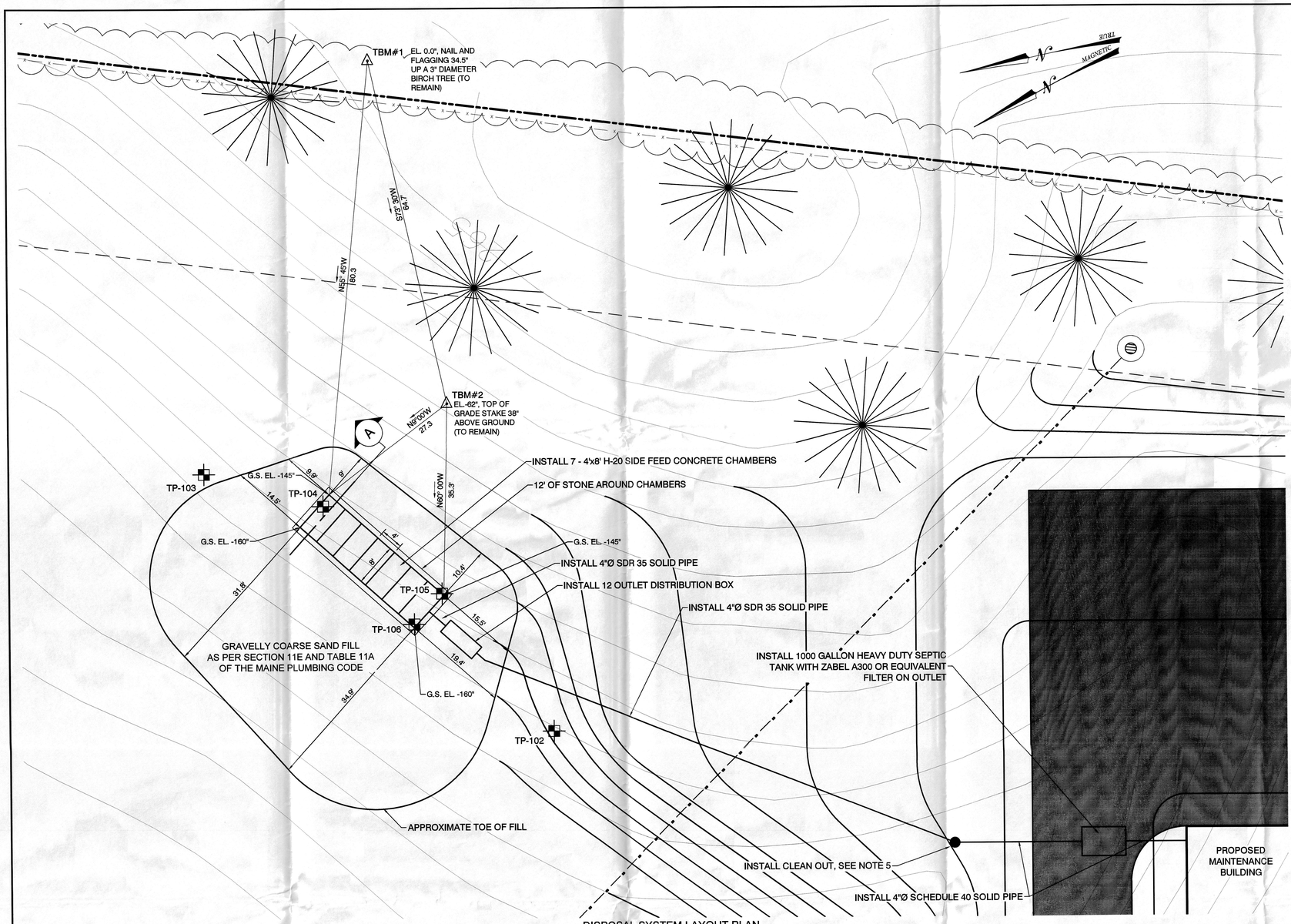
S.W.COLE ENGINEERING, INC

SMRT

SUBSURFACE WASTE WATER
SITE PLAN

PROPOSED MAINE GENERAL MEDICAL CENTER FACILITY
OLD BELGRADE ROAD
AUGUSTA, MAINE

Job No.: 10-0640 Scale: 1" = 60'
Date: 03/09/2011 Sheet: 1

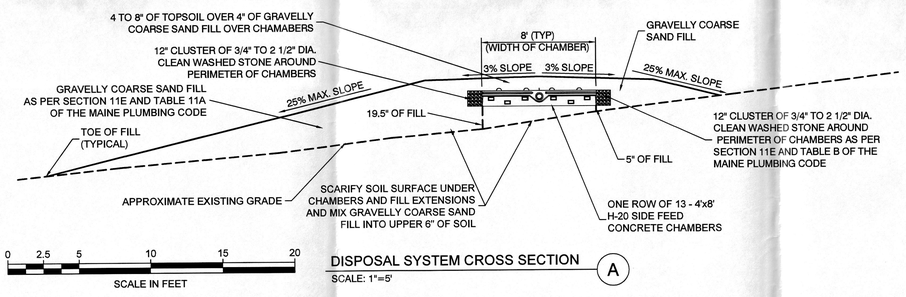


DISPOSAL SYSTEM LAYOUT PLAN

SCALE: 1"=10'

0 5 10 20 30 40

SCALE IN FEET

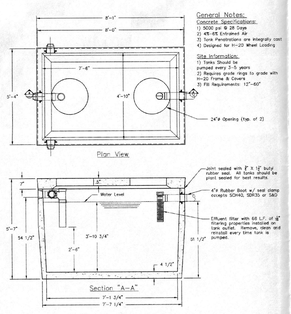


0 2.5 5 10 15 20

SCALE IN FEET

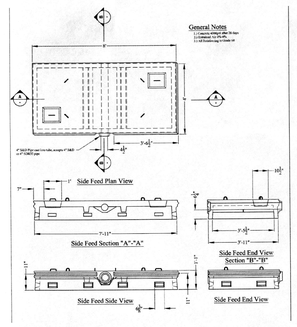
DISPOSAL SYSTEM CROSS SECTION (A)

SCALE: 1"=5'



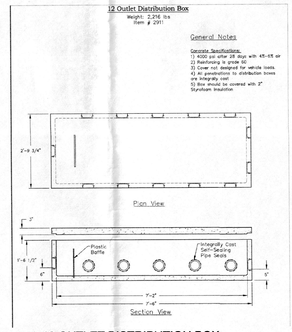
1000 GALLON TOP SEAM SEPTIC TANK (H-20)

NOT TO SCALE



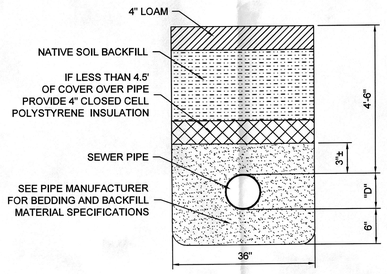
4' X 8' SIDE FEED H-20 CONCRETE CHAMBER

NOT TO SCALE



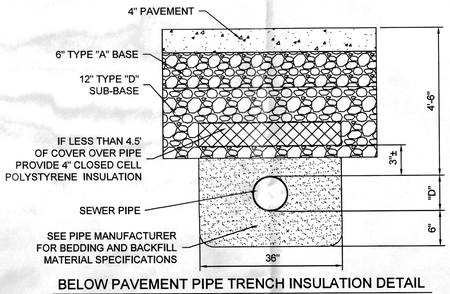
12 OUTLET DISTRIBUTION BOX

NOT TO SCALE



PIPE TRENCH INSULATION DETAIL

NOT TO SCALE



BELOW PAVEMENT PIPE TRENCH INSULATION DETAIL

NOT TO SCALE

GENERAL NOTES:

1. SITE PLAN PREPARED FROM A SCALE PLAN OF THE SITE FROM SMRT, ACCESSED FROM THE SMRT PROJECT FTP SITE, MARCH 2, 2011.
2. SEPTIC TANK, CONCRETE CHAMBERS AND DISTRIBUTION BOX DETAILS PROVIDED BY AMERICAN CONCRETE INDUSTRIES, AUBURN, MAINE.

CONSTRUCTION NOTES:

1. LIME, FERTILIZE, SEED AND MULCH ALL DISTURBED AREAS.
2. CONCRETE CHAMBERS ARE TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 1" IN 100'.
3. DIVERT ALL SURFACE RUNOFF, PARKING LOT, AND ROOF RUNOFF AWAY FROM THE LEACH FIELD.
4. REMOVE VEGETATION. SCARIFY EXISTING SOIL SURFACE UNDER CHAMBERS AND FILL EXTENSIONS, AND MIX GRAVELLY COARSE SAND FILL INTO THE UPPER 6" OF SOIL.
5. AT LEAST ONE CLEAN OUT MUST BE PROVIDED FOR EVERY 100 FEET OF CONNECTING PIPE IN A GRAVITY SYSTEM. CLEANOUTS TO CONSIST OF A 4" SCHEDULE 40 SOLID PVC WYE WITH 45 DEGREE SANITARY ELBOW. RISER PIPE TO CONSIST OF A SDR35 SOLID PIPE WITH A THREADED CLEAN OUT ADAPTER AND THREADED PLUG.
6. PROPERLY PROTECT ALL PIPES, SEPTIC TANKS AND CONCRETE CHAMBERS FROM FREEZING OR CRUSHING. ALL PIPES LESS THAN 4.5' BELOW FINISH GRADE SHOULD BE INSTALLED AS PER THE PIPE TRENCH INSTALLATION DETAIL. ALL SEPTIC TANKS AND DISTRIBUTION BOXES LESS THAN 4.5' BELOW FINISH GRADE SHOULD BE INSULATED WITH A MINIMUM OF 2" OF CLOSED CELL POLYSTYRENE INSULATION. (REFER TO SECTION 6M (11) OF THE MAINE SUBSURFACE WASTEWATER DISPOSAL RULES.
7. ALL PIPES TO BE 4" SCHEDULE 40 SOLID PVC UNLESS OTHERWISE NOTED.
8. INSTALL RISERS FOR TANK ACCESS AS NECESSARY. STEEL FRAMES AND COVERS TO BE USED IN PAVEMENT AREAS.
9. SEPTIC TANK TO BE PROVIDED WITH WATER TIGHT SEALS AND TESTED FOR WATER TIGHTNESS IN PRESENCE OF THE LOCAL PLUMBING INSPECTOR.
10. PROPERLY CLEAN FILTER AND PUMP AND MAINTAIN SEPTIC TANK AS RECOMMENDED BY THE MANUFACTURER OR DIVISION OF HEALTH ENGINEERING.
11. DURING CONSTRUCTION, AS BUILT PLANS OF ALL SUBSURFACE WASTEWATER DISPOSAL SYSTEM COMPONENTS ARE TO BE COMPLETED BY THE CONTRACTOR AND PROVIDED TO THE PROJECT OWNER.
12. CONTRACTOR TO VERIFY PROPERTY LINES AND SETBACKS PRIOR TO CONSTRUCTION.
13. FILL EXTENSIONS MAY BE GRADED TO FLATTEN THE SLOPES - HOWEVER SLOPES MAY NOT BE GREATER THEN 4:1 (25%) IN ANY DIRECTION.
14. SEPTIC BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 11E AND TABLE 11A
15. SEPTIC STONE SHALL MEET THE REQUIREMENTS OF SECTION 11E AND TABLE 11B OF THE MAINE SUBSURFACE WASTEWATER DISPOSAL RULES (10-144 CMR 241) AS AMENDED JANUARY 18, 2011.
16. MINIMUM SEWER LINE GRADE OF ¼" PER FOOT FOR 4" DIAMETER PIPES.
17. MINIMUM EFFLUENT LINE GRADE OF 1/8" PER FOOT.
18. ANY ANGLES IN SEWER LINES OR EFFLUENT LINES ARE TO BE A MAXIMUM OF 45 DEGREES.
19. COVERS TO TANK STRUCTURES SHOULD BE AT OR NEAR FINISH GRADE AND NOT IN LOCATIONS THAT COULD POND. A MINIMUM OF 6" OF COVER MATERIAL SHOULD BE PROVIDED OVER TANK STRUCTURES.
20. REFER TO HHE-200 FORMS DATED 3/9/11, FOR DISPOSAL SYSTEM INFORMATION INCLUDING GENERAL PROJECT INFORMATION, DISPOSAL SYSTEM SIZING, DESIGN FLOW, AND SOIL PROFILE DATA.
21. CONTRACTOR TO INSTALL SEDIMENT BARRIERS PRIOR TO CONSTRUCTION, AS NEEDED.
22. LEACH FIELD AND FILL EXTENSION AREA TO REMAIN IN AN UNDISTURBED CONDITION UNTIL CONSTRUCTION BEGINS ON THE SUBSURFACE WASTE WATER DISPOSAL SYSTEM.

FILL REQUIREMENTS

DEPTH OF FILL (UPSLOPE)	30"
DEPTH OF FILL (DOWNSLOPE)	44.5"

CONSTRUCTION ELEVATIONS

ROW #	FINISH GRADE	TOP OF CONCRETE CHAMBER *	BOTTOM OF CONCRETE CHAMBER *
1	-115"	-127"	-140"

* BASED ON 13" HIGH CHAMBERS

NO.	DATE	DESCRIPTION	BY
1	08/09/2012	REVISED DISPOSAL SYSTEM LAYOUT	CEM

S.W.COLE ENGINEERING, INC.

SMRT

SUBSURFACE WASTE WATER DISPOSAL PLAN AND DETAILS

PROPOSED MAINE GENERAL MEDICAL CENTER FACILITY
OLD BELGRADE ROAD
AUGUSTA, MAINE

Job No.: 10-0640 Scale: As Noted
Date : 03/09/2011 Sheet: 2

R:\2010\10-0640\CAD\Drawings\10-0640 Sheet 2 Septic_Design Base_Rev 1.dwg, 8/9/2012 9:55:43 AM, ARCH D (36.00 x 24.00 Inches), 1:1, CEM, S.W. Cole Engineering, Inc.