SCS-CONS-5
2-70
FILE CODE CONS-14-5

Knight of Columbus

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

INVENTORY & EVALUATION

* INDIVIDUAL
GROUP (3171)
UNIT OF GOVERNMENT

REQUESTED BY Knights of Columbus, Wm Carney RD #1 ~~Vassalboro~~ Augusta

LOCATION South of Stevens Rd. ON RT 201 The Jennie Hart Farm

ASSISTED BY David C. Chase

DATE 8-7-72

SITUATION: Need Suitable Soil for Septic Sewage Field To Serve New Club House.

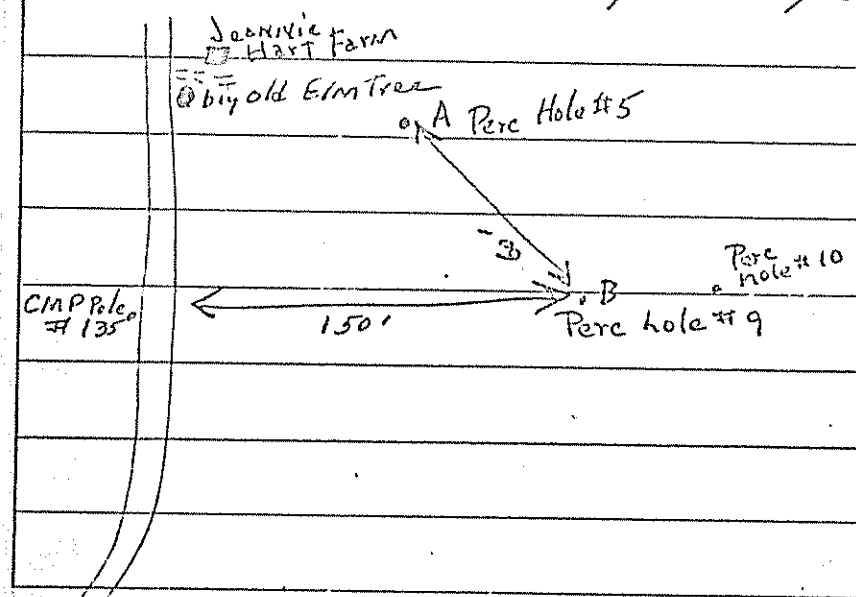
Two Sites (Pits) explored by AP Faust, Soil Scientist

#1 — Charlton Fine Sandy Loam on B (3-8% Slope rated Good for Septic Sewage as per "Soil Suitability Guide for Land use planning in Maine, Misc, Public 667 Rev. Me Agric Exp Sta.

#2 — Sutton Fine Sandy Loam on B (3-8%) Slope ~~[illegible]~~ Maximum High water Table at 31 inches. this Soil rated poor as per above

this Soil not suited for Septic Sewage Field use unless at least Twenty Five inches Material built up as stated in "Maine Plumbing Code", (H-6) page 37

SUGGESTED SOLUTION(S):



* Circle appropriate category.

ghts of Columbus
nerside Drive
ugusta, Maine

Sheet 1 of 2

Fixtures in Hall

	Men	Women	Bar	Total
Flush Toilets	1	3	—	4
Urinals	2	0	—	2
Lavatories	1	2	—	3
Sinks + 2 + Garbage Disp	—	—	1	1
1 - Septic System				

STAT 300
8100
260
180
240
200
$19.80

Design based on Five hours of usage
Design flows from PHS Publication 526 (1967)
Manual of Septic-Tank Practice

Type of fixture	Gal/hour		Number		Time	Total
Flush Toilets	36	x	4	x	5hr	= 720
Urinals	10	x	2	x	5hr	= 100
Faucets	15	x	8	x	5hr	= 600
(2 per lavatory sink)			Sub Total			1420

Meals 300 x 3gal/meal/day = 900

2320

Design system on 3000 gallons/day to allow for future expansion and unusual and excessive usage.

Septic tank size (Maine Plumbing Code 1970)

Volume = 1125 + 0.75 Q
= 1125 + 0.75 (3000) = 3375 gallon

Recommend 2,000 gallon in series with 1,500 gallon tanks

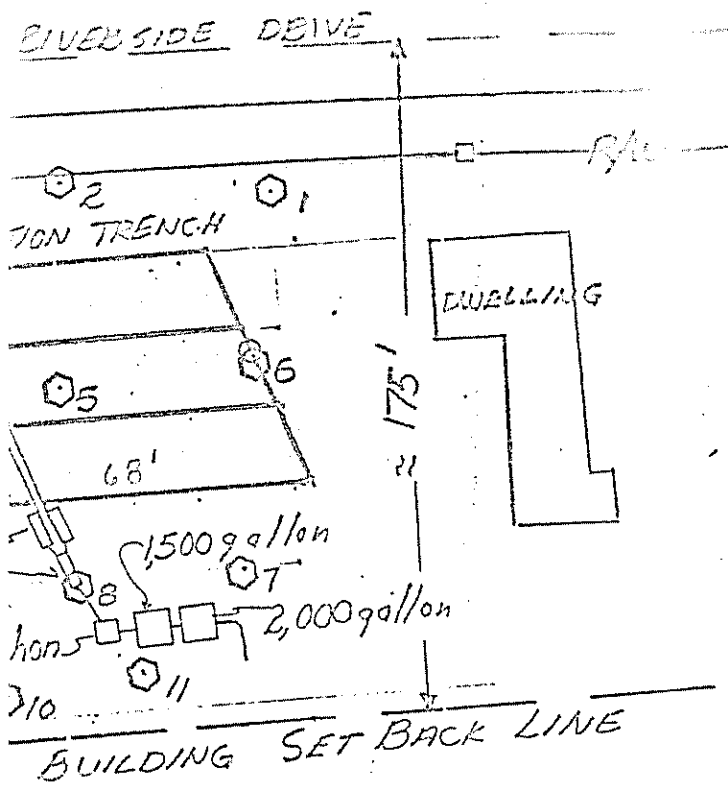
Length of Absorption Trench (Maine Plumbing Code

Assume percolation rate 7 minutes/inch
1.55 sq ft/gal/day with allowance for garbage grinder

540 linear feet of trench required

KNIGHTS OF COLUMBUS

AUGUSTA, MAINE



DESIGNED BY
Redington R Robbins
REDINGTON R ROBBINS, III
P.E. 2505

DATE 23 JULY 72

TEST HOLE	DEPTH	TIME			REF. WATER DEPTH			PERCOL RATE
		START	STOP	DIFF	START	STOP	DIFF	
1	36	0913	0929	16	2'-3¾"	2'-8"	4¼"	4
2	36	0920	0940	20	2'-5¼"	2'-9½"	4"	5
3	36	0926	0937	11	2'-5"	2'-9"	4"	3
4	37	0935	0941	6	2'-4½"	2'-9½"	5"	2
5	36	0947	0955	8	2'-5"	2'-10"	5"	2
6	37	0952	1136	104	2'-4¾"	2'-9½"	4¾"	22
7	36	1017	1036	19	2'-5¾"	3'-0"	6¼"	3
8	36	1024	1046	22	2'-6"	3'-0"	6"	4
9	36	1029	1200	91	2'-3"	2'-7"	4"	23
10	37	1040	1048	8	2'-5"	2'-9¼"	4¼"	2
11	37	1045	1050	5	2'-5¼"	2'-10"	4¾"	1

LEGEND
- ⊙ PERCOLATION HOLES
- ⊘ DISPOSAL FIELD VENT
- ⊡ R/W MARKERS

DEPTH TO BEDROCK 4' TO GROUND WATER

FILL LAND 1 FOOT NONE DETECTED AT

IN ACCORDANCE WITH (MPC) 4 FEET

Knights of Columbus

August 8, 1972

Mr. William Carney
Knights of Columbus
RFD.#1
Augusta, Maine

Re Proposed sewage disposal system for the Knights of Columbus Club House

Dear Mr. Carney:

We have reviewed the soils information, percolation tests and design for the proposed sewage disposal system for the Knights of Columbus new building in Augusta. We find that the system can conform with the State Plumbing Code with or without the proposed one foot of landfill.

We are prepared to approve this installation subject to approval and permits by the Local Plumbing Inspector.

Very truly yours,

Donald C. Hoxie
Assistant Director
Division of Health Engineering

DCHoxie:w
cc: C. Morton, LPI