

Coyle Engineering
339 River Street, Leicester, MA 01524
(508) 892-4749, FAX (508) 892-0977

October 14, 2001

Sterling Board of Health
Town Hall, Main Street
Sterling, MA 01564

RE: Mr. Thomas Loan
27 Main Street
Sterling, MA 01564

Dear Members of the Board:

Enclosed please find the septic design plan for the subject property. I have added the sewer easement to the plan for the Town of Sterlings' proposed septic system. If the location of the easement is agreeable to the Town and Mr. Loan, the Town should notify their consultant to prepare a recordable plan reflecting the sewer easement.

Also enclosed are the certified mail return receipts and a copy of the notice that was mailed to the abutters as requested by the Board of Health.

If you have any questions or require additional information please do not hesitate to call me at (508) 892-4749.

Sincerely,



WILLIAM A. COYLE, P.E.

cc: Mr. Tom Loan

ROUTE 12

148.84
N 50°17'00" E

BIT. CONC. DRIVEWAY

115.49
S 39°22'12" E

"As-built"
WCE

2000 GALLON HOLDING TANK
H-20 LOADING (SEE DETAIL)

1500 GALLON GREASE TRAP
H-20 LOADING (SEE DETAIL)

PROPOSED CULTEC
C-100 STORMWATER
RETENTION CHAMBERS
(SEE DETAIL)

B.M.
TOP CONCRETE
THRESHOLD ELEV.=98.25'

ROOF DRAIN
STAIRS

BIT. CONC. PAVED
PARKING AREA

PROPOSED SEWER CASEMENT
PROPOSED SEWER MAIN
24.08
S 46°34'32" W

EXISTING SEPTIC TANK
(PUMP & REMOVE)

TANK #1

2 - 3500 GALLON SEPTIC
TANKS IN SERIES - H-20
LOADING (SEE DETAIL)

TANK #2

PROPOSED CATCH BASIN WITH
12" RCP OUTLET (RIM
EL.=96.0') - TIE OUTLET
INTO EXISTING SUBSURFACE
DRAIN LINE

APPROXIMATE
LOCATION OF
LEACH FIELD
(PUMP &
ABANDON)

BIT. CONC. DRIVEWAY

CONCRETE PAD

APPROXIMATE LOCATION SUBSURFACE DRAIN LINE
STAIRS

2:1
SLOPE

71.20
S 51°37'56" E

BIT. CONC. DRIVEWAY
N 40°38'06" W

15:1
SLOPE

15:1
SLOPE

15:1
SLOPE

15:1
SLOPE

15:1
SLOPE

15:1
SLOPE

15:1
SLOPE

15:1
SLOPE

15:1
SLOPE

BIT. CONC. DRIVEWAY

15:1
SLOPE

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SLOPE

15:1
SLOPE

Total Properties, Inc.

P.O. BOX 236
STERLING, MA 01564

11/16/01

Board of Health
Town of Sterling
1 Park St.
Sterling, Massachusetts 01564

Dear Sir:

It is my intention to grant the easement specified on
" Plan of Subsurface Disposal System" plan dated May 28th
2001 (Coyle Engineering), for the property located at
27 Main St. to the Town of Sterling for the purpose of
constructing a sewer line adjacent or near to existing
drainage easement.

Sincerely yours,

Thomas G. Loan
Thomas G. Loan

Nov 14, 2001.

WRC

*Notarizing said signature of one
Thomas G. Loan.*

*Nonna L. Salucci
Notary*

COMMISSION EXPIRES SEPT 3, 2002

Oct. 10, 2012

Thus far we have quotes for Engineering of the Town Hall septic hookup to the Fire station and a good estimate of costs to connect to the existing force main at the South side of Waushacum Ave.

Cost of Engineering is estimated by Places Consultants at \$11,700.00.

Terry Heinold of Ground Control has estimated cost of pumps, tanks, and connections to the existing pipe at \$47,000.00. Though we have markups of the system at the Fire Department as installed, we are not absolutely certain what is in the ground.

The remaining element required is the Nitrogen treatment installation. Michael Cove of Cove Construction has gotten in touch with Ross Associates, who are supplying him with design information. He is working with them to get us a good estimate of cost for the work at that end. He has not been able to calculate the estimate due to an illness in the family, but expects to make an estimate next week.



Town Hall

9/7/2012

2000gal grease trap + plumbing

5,000.⁰⁰

septic tank 8000 gal
change plumbing

20,000.⁰⁰

pump chambers 4000 gal
alarms
electric work
2 pumps

13,000.-

force main pump chamber to
loan - woodly - under Wauschaum -
to unused tank at Fire Sta. (2" pipe
waiting at Wauschaum)

9,000.⁰⁰

47,000.-

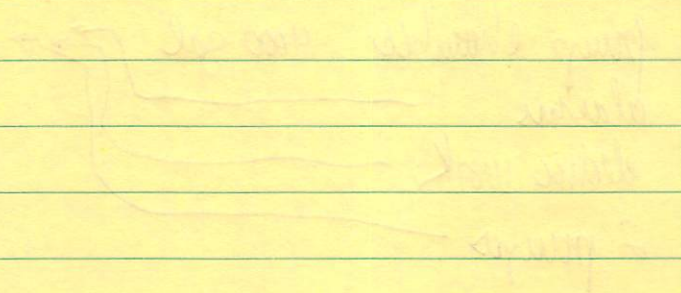
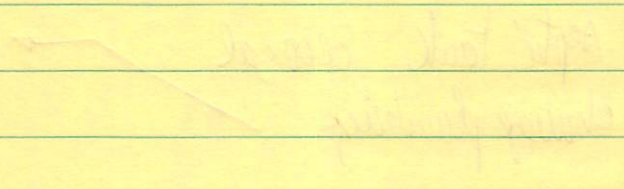
260
15
13 00
260
39 00



Tom Hall

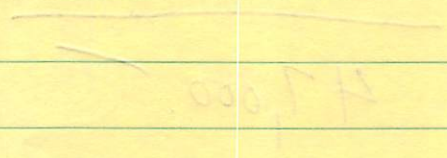
1/10/19

1. 1000m + 1000m



1. 1000m + 1000m
2. 1000m + 1000m
3. 1000m + 1000m

1000m



1000m

PLACES Site Consultants, Inc.

PLANNING, LANDSCAPE ARCHITECTURE, CIVIL ENGINEERING & SURVEYING

August 15, 2012

Mr. Vern Gaw
Town of A Sterling, Old Town Hall Building Committee
Butterick Building
1 Park Street
Sterling, MA 01564

Re: Preliminary Cost Estimate for Services
Sterling Fire Station and Old Town Hall Sewage Disposal System
Connection of Old Town Hall to Fire Station system (OPTION 2)
Proposal No. 11-668

Dear Mr. Gaw;

We are generally outlining our estimated costs for the above scope of services:

1. Perform a Title 5 inspection of the existing system serving the Fire Station: Backhoe and pumper supplied by the Town: \$ 1,200. (This service can be provided by another DEP Certified System Inspector)
2. Conduct a topographic survey from the Old town hall to the point of connection on the Fire Station Site. (Does not include property line or easement surveys): \$ 1,200
3. Design & prepare permitting and construction documents for local Sewer Connection: \$ 1,200
4. Town of Sterling Permitting: \$ 600 (one night meeting only)
5. Prepare Bid Documents meeting Massachusetts Public Bid Criteria: \$ 600.
6. Bid Support: \$ 800
7. Engineer's Cert: \$ 600.00
8. Construction Support, Inspections and close-out: \$ 1,400.

Total \$ 7,600, plus reimbursable expenses.

PLACES Site Consultants, Inc.

694 Main Street - Suite 3. Holden. MA 01520-1862
(508) 829-0333 FAX (508) 829-0904
PLACES@VERIZON.NET

PROJECT No.: STERLING TOWN & TOWN HALL
SHEET No. _____ OF _____
CALCULATED BY _____
CHECKED BY JEM : 1/5/12
SCALE _____

$$118300 \div 40,000 \frac{TS}{AC} = 2.96 \frac{TS}{AC}$$

$$2.96 \frac{TS}{AC} \times 440 \text{ GPD/TS} = 1301.3$$

MAX COMBINED
No N₂ FLOW.

DESIGN FLOW

$$w/N_2 \text{ TREAT} = 1867 \text{ qpd}$$

$$\text{Fire STA ALONE} = 1,087 \text{ qpd}$$

$$\text{TOWN HALL DESIGN} = 780 \text{ qpd}$$

- 565.7

$$\text{214.3 qpd}$$

$$\begin{array}{r} 1867 \\ - 1301 \\ \hline \Delta 565.7 \text{ qpd} \end{array}$$

MAX. T.H FLOW w/o
N₂ TREATMENT.

REF: SEPTIC SYSTEM DESIGN PLAN, SHEET C-6
JUNE 16, 2004

$$\text{@ } 3 \text{ qpd per seat} = 71.3 \text{ SEATS.}$$

catemert