



Hamilton

Building Division

Reviewed for Ontario Building Code Compliance.

Subject to Corrections Noted on Plans and Field Inspections.

Permit: 21 104287 000 00 SS

Date: 05/19/21

Name: Laurie Smith

Approved by: *L. Smith*

Draft A, nov30-2017-8pts

Cedar Lane Bobcat Services



November 23, 2020
688-690 Crooks Hollow Rd.
Greenville, City of Hamilton

SEPTIC SYSTEM DESIGN

SYSTEM TYPE- Waterloo Biofilter Flatbed treatment FB 30 for treatment up to 3000L/day with area bed disposal.

T-TIME OF SOIL- Based on Chung and VanderDoelen's soils report a T-30 will be used for design purposes.

DAILY DESIGN FLOW- See attached design flow sheet 2880L/day

SEPTIC TANK AND-PUMP CHAMBER Anaerobic Digester. Twice the daily design. Use Winona concrete AD 100 with internal pump chamber for daily design flows up to 3000L/day. Complete with controls, high level alarm and risers to grade.

WATERLOO BIOFILTER- Use FB 30. Flatbeds sitting on stone layer of area bed.

TYPE OF DISPOSAL BED- Imported sand with T 6-10. Total sand area is QT/400.

✓ $2880 \times 30 / 400 = 216$ sq. metres.

Use 216 sq. metres, use 8m x 27m minimum 300mm thick. ✓

STONE LAYER- $Q/75$. $2880/75 = 38.4$ sq. metres. Use 40 sq. metres. 8m x 5m 300mm thick. ✓ Stone layer to be covered by geotextile fabric around flatbeds.

DISTRIBUTION PIPING- No piping, flatbed system

- SCOPE OF WORK-**
- *Strip topsoil and pile for reuse
 - *Install tanks etc. and connect to stub
 - *Prepare sub grade for area bed and have 1-2% fall with no side to side crossfall
 - *Build type A bed to drawing specifications
 - *Topsoil bed with 6-8" topsoil and grade to shed surface water
 - *Seed or sod is necessary