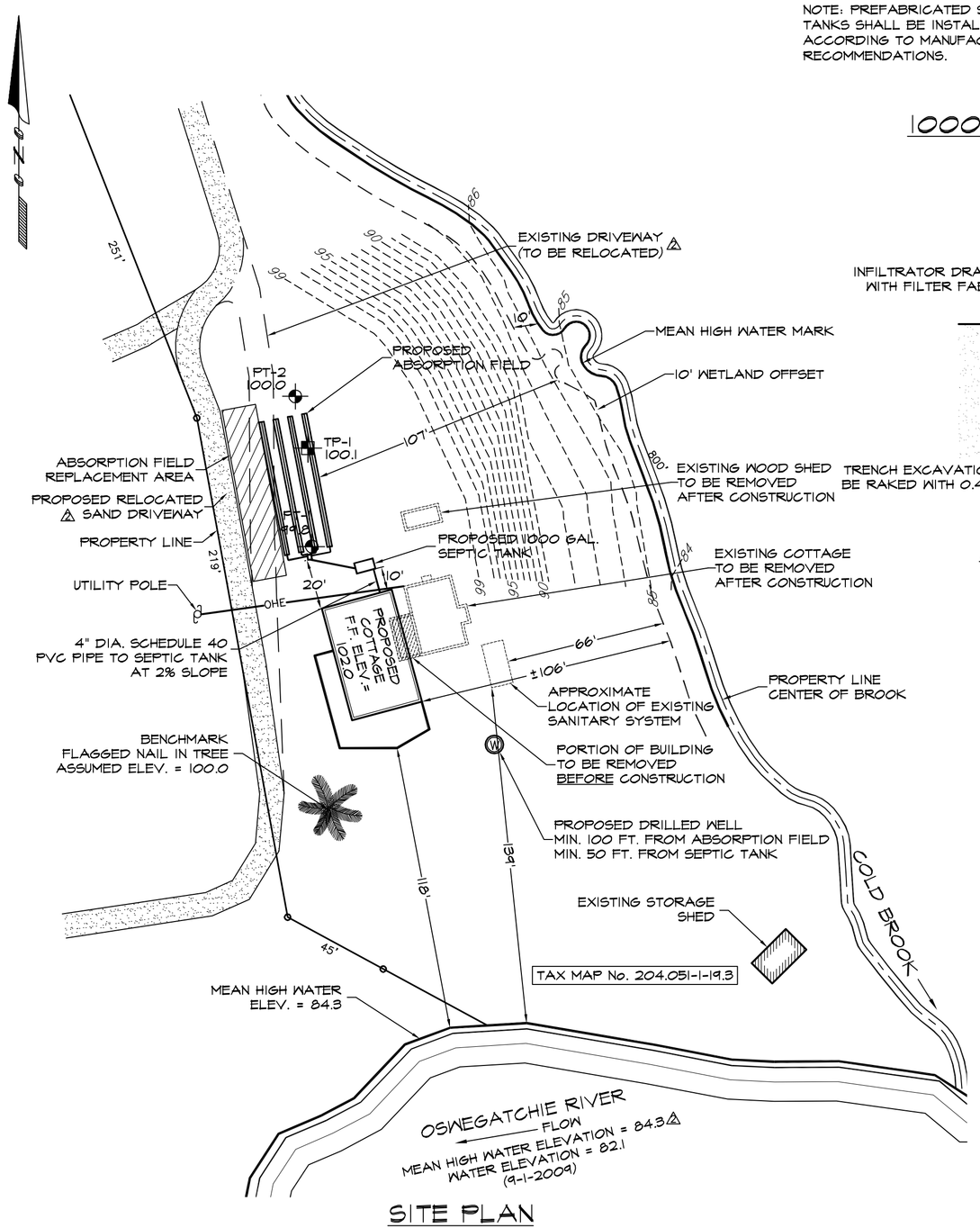
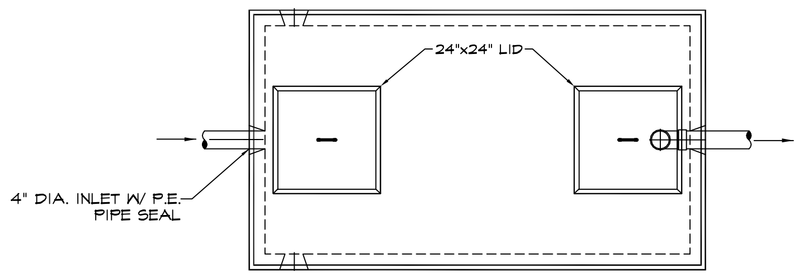
SITE LOCATION
SCALE: 1"= 2,000'

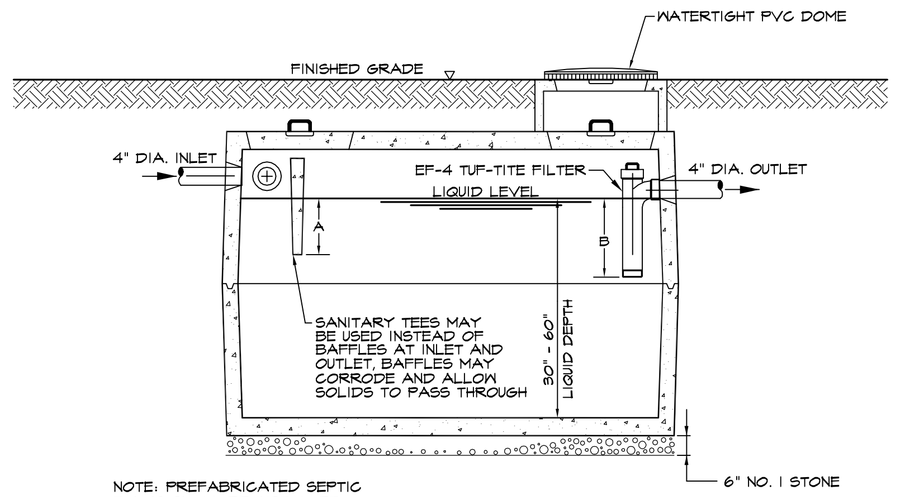


SITE PLAN
SCALE: 1" = 40'

NOTE: TANKS SHALL BE WATERTIGHT AND CONSTRUCTED OF REINFORCED CONCRETE OR APPROVED EQUAL.



PLAN

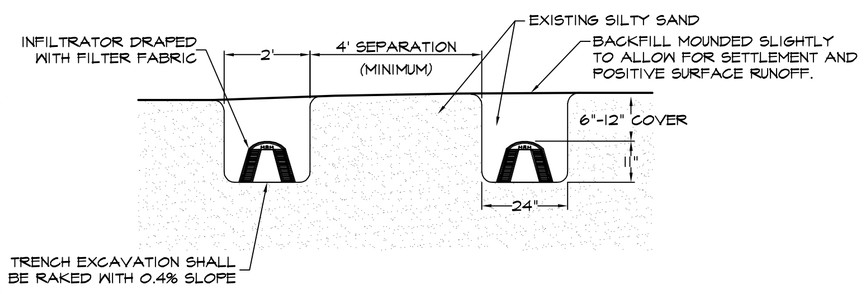


NOTE: PREFABRICATED SEPTIC TANKS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

SECTION

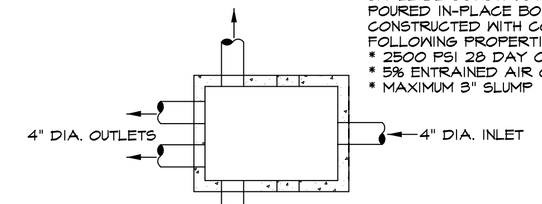
TANK LIQUID DEPTH (IN.)	INLET BAFFLE "A" DIM. (IN.)	OUTLET BAFFLE "B" DIM. (IN.)
<40	12	16
>40	14	18

1000 GALLON SEPTIC TANK
NOT TO SCALE

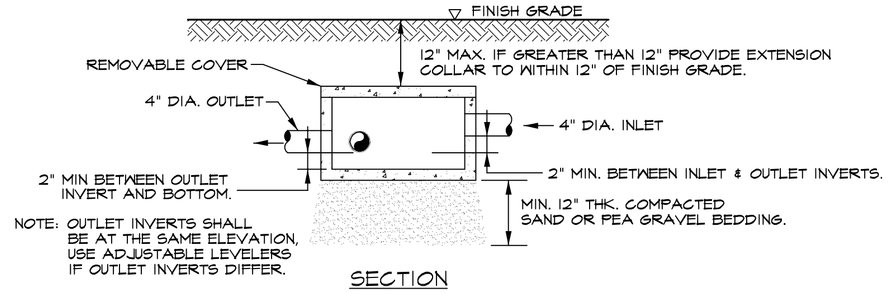


ABSORPTION FIELD SECTION
NOT TO SCALE

NOTE:
PREFABRICATED DISTRIBUTION BOXES SHALL BE CONSTRUCTED OF CONCRETE. POURED IN-PLACE BOXES SHALL BE CONSTRUCTED WITH CONCRETE HAVING THE FOLLOWING PROPERTIES:
- 2500 PSI 28 DAY COMPRESSIVE STRENGTH
- 5% ENTRAINED AIR CONTENT
- MAXIMUM 3" SLUMP

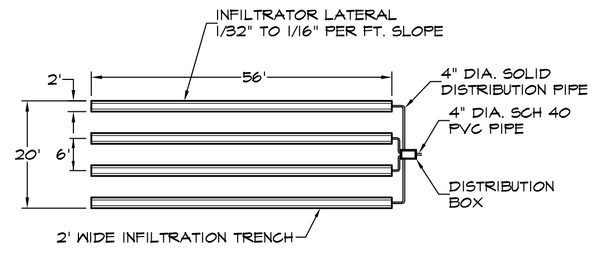


PLAN

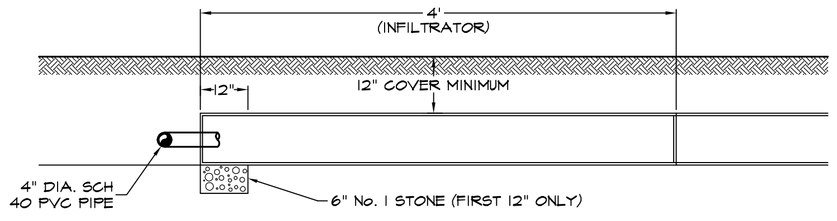


SECTION

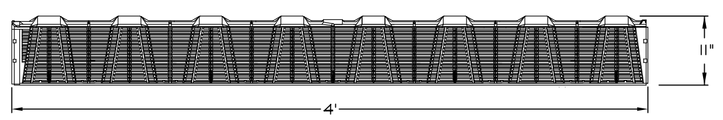
TYPICAL 6-OUTLET DISTRIBUTION BOX
NOT TO SCALE



ABSORPTION FIELD
NOT TO SCALE



TRENCH CROSS SECTION DETAIL
NOT TO SCALE



INFILTRATOR
NOT TO SCALE

ELEVATION SCHEDULE

BENCHMARK (TOP NAIL IN TREE)	100.0
PROPOSED HOUSE FINISHED FLOOR	102.0
DESIGN GRADE AT HOUSE	100.5
PROPOSED HOUSE SANITARY OUTLET	99.0
SEPTIC TANK INLET INVERT	98.8
SEPTIC TANK OUTLET INVERT	98.5
DISTRIBUTION BOX INLET INVERT	98.4
DISTRIBUTION BOX OUTLET INVERT	98.3
UPSTREAM FIELD TRENCH INVERT	98.0
DOWNSTREAM FIELD TRENCH INVERT	97.8
GRADE AT TP-1	100.1
PROPOSED GRADE AT ABSORPTION FIELD	100.1

LEGEND

PT-1	PERCOLATION TEST
TP-1	TEST PIT
W	PROPOSED DRILLED WELL
—OHE—	OVERHEAD ELECTRIC

GENERAL SEWAGE TREATMENT SYSTEM SPECIFICATIONS

1) THE ABSORPTION FIELD IS TO BE CONSTRUCTED IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF HEALTH STANDARDS.
2) THE INFILTRATOR (TM) SYSTEM WILL BE USED AS DISTRIBUTOR LATERALS WITHIN THE ABSORPTION FIELD.
3) THE ABSORPTION FIELD SHALL HAVE A MAXIMUM OF 12 INCHES OF COVER MATERIAL ABOVE THE INFILTRATOR (SEE ABSORPTION FIELD SECTION).
4) THE EXISTING TOPSOIL SHALL BE STRIPPED, STORED AND SUBSEQUENTLY REPLACED.
5) SITE GRADING IN THE AREA SURROUNDING THE PROPOSED ABSORPTION FIELD SHALL BE GRADED TO DIVERT SURFACE RUNOFF AWAY FROM THE ABSORPTION FIELD.
6) THE FINAL ABSORPTION FIELD SHALL BE CROWNED TO PROVIDE POSITIVE SURFACE WATER DRAINAGE FROM THE ABSORPTION FIELD SURFACE AREA.
7) ALL GRAVITY SOLID SEWER PIPE OUTSIDE THE ABSORPTION FIELD SHALL CONSIST OF SCHEDULE 40 PVC PIPE. SOLID SEWER PIPE CONNECTIONS TO THE SEPTIC TANK SHALL HAVE EITHER RUBBER RING GASKETS OR VINYL SEALS. SHOULD THE FACTORY INSTALLED SEALS BE DAMAGED OR NONEXISTENT, THE CONNECTION SHALL BE CAULKED WITH AN APPROVED CAULKING COMPOUND.
8) THE CONCRETE SEPTIC TANK SHALL BE PLACED ON A MINIMUM OF 6 INCHES OF TAMPED AND FINISH GRADED No. 1 STONE.
9) THE CONCRETE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE CONSTRUCTED OF REINFORCED CONCRETE SIMILAR TO THE SECTION SHOWN OR AS MANUFACTURED BY WITHERBEE AND WHALEN OR APPROVED EQUAL.
10) NO VEHICULAR TRAFFIC IS TO BE ALLOWED TO TRAVEL OVER THE ABSORPTION FIELD OR CONCRETE VESSELS, OTHER THAN LIGHT LAWN MAINTENANCE EQUIPMENT.
11) A TUF-TITE FILTER MODEL No. EF-4 SHALL BE INCLUDED AT THE OUTLET END OF THE SEPTIC TANK. THE FILTER WILL PROMOTE THE LONGEVITY OF THE ABSORPTION BED AND SHOULD BE PERIODICALLY CHECKED AND MAINTAINED AS FOUND TO BE NECESSARY.
12) THE SEPTIC TANK SHOULD BE PUMPED PERIODICALLY IN ORDER TO PREVENT PASSING OF SOLIDS INTO THE ABSORPTION FIELD AND PROMOTE LONGEVITY OF THE ABSORPTION FIELD. IT IS RECOMMENDED THAT THE TANKS ARE PUMPED ONCE EVERY THREE YEARS, AS A MINIMUM.

DESIGN CRITERIA

1) SEWAGE VOLUME:
3 BEDROOM HOUSE WITH WATER SAVING FIXTURES, 390 GALLONS PER DAY (GPD)

2) SEPTIC TANK CAPACITY:
3 BEDROOM HOUSE WITHOUT A GARBAGE GRINDER
USE MINIMUM 1,000 GALLON CAPACITY CONCRETE SEPTIC TANK.
THE SEPTIC TANK OUTLET SHALL HAVE A MODEL EF-4 TUF-TITE FILTER

3) ABSORPTION FIELD:
THE DESIGN PERCOLATION RATE IS 9 MIN/INCH FALL,
THE CORRESPONDING APPLICATION RATE IS 0.9 GPD/SF
390 GPD/0.90 GPD/SF=> 434 SF, 434 SF/2 FT=> 217 LIN FT INFILTRATOR REQUIRED
217 FT/4 FT PER INFILTRATOR => 55 INFILTRATORS USE 56 INFILTRATORS.
ASSUME 4 LATERALS: 56 INFILTRATORS/4 LATERALS => 14 INFILTRATORS PER LATERAL.
ABSORPTION FIELD CONSISTS OF 4 LATERALS, EACH 56 FT. LONG.

TEST PIT LOG

ONE TEST PIT WAS EXCAVATED BY HYDRAULIC BACKHOE ON MAY 19, 2009.

TEST PIT No.1

0-4"	TOPSOIL
4-16"	Brown mf SAND, trace SILT, trace mf GRAVEL (Net, Non-Plastic)
16-33"	Reddish-Brown mf SAND, trace SILT, trace mf GRAVEL (Net, Non-Plastic)
33-76"	Light-Brown cmf SAND, trace SILT, trace mf GRAVEL (Net, Non-Plastic)

No Evidence of the Seasonal High Ground Water Table, was observed.

PERCOLATION TEST LOGS

PERCOLATION TESTS WERE PERFORMED IN CONFORMANCE TO NYSDEC ACCEPTED STANDARDS ON MAY 19, 2009.

PERCOLATION TEST PIT No. 1

0-3"	TOPSOIL
3-12"	Brown mf SAND, trace SILT, trace mf GRAVEL (Net, Non-Plastic)
12-24"	Reddish-Brown mf SAND, trace SILT, trace mf GRAVEL (Net, Non-Plastic)

PERCOLATION TEST RESULTS => 9 MINUTES/INCH FALL

PERCOLATION TEST PIT No. 2

0-3"	TOPSOIL
3-14"	Brown mf SAND, trace SILT, trace mf GRAVEL (Net, Non-Plastic)
14-24"	Reddish-Brown mf SAND, trace SILT, trace mf GRAVEL (Net, Non-Plastic)

PERCOLATION TEST RESULTS => 5 MINUTES/INCH FALL

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, PROFESSIONAL ENGINEER, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY.

NO.	REVISIONS	DATE	BY
⚠	DRIVEWAY, BROOK, HIGH WATER	9-8-09	LGO
⚠	OVERHEAD ELECTRIC LINE, UTILITY POLE	7-6-09	LGO

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OSWEGO, NEW YORK 13126

PROJECT
PROPOSED THREE BEDROOM COTTAGE
69 HOLLOW ROAD, CRANBERRY LAKE, NY 12927
TOWN OF CLIFTON, ST. LAWRENCE COUNTY, STATE OF NEW YORK

DRAWING TITLE
SITE PLAN AND SANITARY TREATMENT SYSTEM

PROJECT ENGINEER	TAHP
DRAWN BY	LGO
SCALE	AS NOTED
DATE	MAY 2009
PROJECT NO.	6241-09

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6241-01
SHEET NO. 1 OF 1

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