



Catskill Watershed Corporation

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EMAIL COVER SHEET

To: SEPTIC COMMITTEE

ATTN: Tina Molé
Richard Parete
Alicia Terry
Allen Hinkley
Thomas Snow
George Hayne, Jr.
Thomas Hoyt
Shilo Williams
Jim Ellis

CC: CWC Staff, John Schwartz, Michael Meyer, Matthew Giannetta, Thomas Stalter, Gerson Tavaréz and Aaron Bennett

SUBJECT: SEPTIC COMMITTEE MEETING NOTICE

DATE: Tuesday, August 4, 2026

TIME: START: Immediately Following Wastewater

LOCATION: Catskill Watershed Corporation Building

Additional Instructions:

Please be advised that the Septic Committee meeting has been scheduled. Below please find the agenda and minutes from the previous meeting. If you have any questions or concerns, please contact Mitchell Hull.

NOTICE OF PRIVILEGE AND CONFIDENTIALITY

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AGENDA

CATSKILL WATERSHED CORPORATION **SEPTIC COMMITTEE MEETING** **August 4, 2026 Following Wastewater**

- I. Call to Order
- II. Election of Chair
- III. Review of Last Meeting's Minutes
- IV. Septic Programs: Take Offs Attached
 - a. Judith Alcala over \$30,000
 - b. Ralph Combe over \$30,000
 - c. John Enochy over \$30,000
 - d. Denis Kuchta over \$30,000
 - e. Joseph Leonard over \$30,000
 - f. Piotr Maceczek over \$30,000
 - g. Matt Persons over \$30,000
 - h. Alexandra Rosenberg over \$30,000
 - i. George Spilke over \$30,000
 - j. Diana Tsingopoulos over \$30,000
 - k. Fara Warner over \$30,000
 - l. Robert Kalb over \$30,000 second time repair
 - m. Robert Danetz additional cost
 - n. William Denter additional cost
 - o. Susan Friedman additional cost over \$30,000
 - p. Gerry Irwin additional cost over \$30,000
 - q. Natasha Jelenich additional cost over \$30,000
 - r. Lisa Light additional cost over \$30,000
 - s. Steven Mancinelli additional cost
 - t. Cynthia Davis second time repair eligibility
 - u. John Klein second time repair eligibility
 - v. Romaine Lamaze second time repair eligibility
 - w. Toufie Mazzawy second time repair eligibility
 - x. Gerald Ulaj second time repair eligibility
 - y. Alan White second time repair eligibility
 - z. Septic Maintenance
 - aa. Septic Cluster
 - bb. Septic Update
 - cc. Other
 - dd. Schedule next meeting for September 1, 2026
 - ee. Adjournment

**Catskill Watershed Corporation
Septic Committee Meeting
July 7, 2026
Draft Minutes**

Attendance:

Committee Members: Tina Molé (Director), Richard Parete (Director), Alicia Terry (Director), Thomas Hoyt (Director), Allen Hinkley (Director), Jason Merwin (CWC), Shilo Williams (NYCDEP)

Others: Renee Alexander (CWC), Renee Antonette (CWC), Zach Baldwin-Way (CWC), Rena Baker (CWC by Zoom), Lindsay Ballard (CWC), Aaron Bennett (NYCDEP), Dylan Braswell (CWC Intern), Kyle Bredberg (New Paltz Oracle Reporter), James Brooks (JB's Plumbing & Line Cleaning), Donald Brown (CWC), Bennett Burks (Fuji Clean USA), Ashley Camano (CWC Intern), Nick Carbone (Delaware County Watershed Affairs), Joseph Cetta (Director), Timothy Cox (CWC), Lindsay Drew (NYS DOS), Heidi Emrich (NYCDEP), Kyle Faraci (CWC), Jessica Fiedler (CWC), Matthew Gianetta (NYCDEP), Jonathan Gonzalez (CWC Intern), Kristina Gutches (NYS DEC), Matthew Holbrook (CWC Intern), Mitchell Hull (CWC), John Jacobson (CWC), Innes Kasanof (Director), Lynn Kavanagh (CWC by Zoom), Ken Kosinski (CWC by Zoom), Kristina Gutches (NYS DEC), John Kosier (Director), David Lane (CWC), Joan Lawrence-Bauer (The Walton Reporter), Michael Maloney (NYS DOH), Nicholas Mammel (CWC Intern), James Martin (CWC), Christopher Matthews (Director), Michael Meyers (NYCDEP by Zoom), Dymitry Ostapishyn (NYCDEP by Zoom), Pat Palmer (NYS DOH), Barbara Puglisi (CWC), Nick Sadler (NYCDEP), John Schwartz (NYCDEP), Jeff Senterman (Director), James Sofranko (Director), Karen Stainbrook (NYS DEC), Thomas Stalter (NYCDEP by Zoom), Brian Sullivan (CWC), Morgan Tarbell (NYS DOH by Zoom), Gerson Tavarez (NYCDEP), Lee Verbridge (Fuji Clean USA), Pauline Wanjugi (NYS DOH by Zoom), John Wimbush (NYS DOH), Gemma Young (CWC)

- I. Tina Molé called the meeting to order at 9:38 AM.
- II. Minutes from the June 2026 Committee Meeting were reviewed and approved as written.
- III. Septic Program:

- A. **Lindsey Clark Over \$30,000.00:** Ms. Clark's residence is located at 15 Hog Mountain Spur Road, Margaretville, New York 12455 in the Town of Middletown. CWC staff determined that her septic system is likely to fail. The engineer is Rex Sanford, P.E. The contractor is G.C. Landscaping & Excavation, Inc. Ms. Clark signed into the program on July 23, 2005. Her Design Application was received by NYCDEP on April 8, 2026, and deemed complete on April 17, 2026. Her septic system design was recommended for NYCDEP Design Approval on May 6, 2026. Ms. Clark's two-year deadline is July 23, 2027. Her proposed septic system will serve a two-bedroom house. Major components of this system include a 1,000-gallon septic tank; a pump chamber; 14 linear feet of gravity pipe; 26 linear feet of force main; one distribution box; 90 cubic yards of absorption fill material; 150 linear feet of Presby pipe; 45 cubic yards of C-33 sand; 23 linear feet of vent pipe; remove an existing stone wall; an 85-foot-long, five-feet-high and two-feet-wide retaining wall; eight road plates and site

restoration. Three quotes were submitted to the homeowner for this project. They were \$95,310.85, \$97,350.48 and \$98,650.00. The lowest quote, submitted by G.C. Landscaping & Excavation, Inc., is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Lindsey Clark in the amount not to exceed \$95,310.85 to build her septic system.

- B. Joan Mack Over \$30,000.00:** Ms. Mack's residence is located at 201 Wittenberg Road, Bearsville, New York 12409 in the Town of Woodstock. CWC staff determined that her septic system is failing. The engineer is Rex Sanford, P.E. The contractor is Estes Contracting. Ms. Mack signed into the program on December 18, 2025. Her Design Application was received by NYCDEP on April 14, 2026, and deemed complete on May 26, 2026. Her septic system design was recommended for NYCDEP Design Approval on May 26, 2026. Ms. Mack's two-year deadline is December 18, 2027. Her proposed septic system will serve two houses: House #1 is a three-bedroom house, House #2 is a one one-bedroom house. Major components of this system include two 1,000-gallon septic tanks, 231 linear feet of gravity pipe, one distribution box, 460 cubic yards of absorption fill material, 280 linear feet of Presby pipe, 80 cubic yards of C-33 sand, 55 linear feet of vent pipe, 177 linear feet of curtain drain, 30 linear feet of curtain drain outlet pipe, two clean outs, 167 linear feet of access road, remove 13 trees, shuttle tanks, re-load materials onto small trucks to take to absorption field, plumbing modification and site restoration. Three quotes were submitted to the homeowner for this project. They were \$96,297.72, \$98,466.12 and \$101,018.56. The lowest quote, submitted by Estes Contracting, is within 10% the staff estimated cost of construction based on the Schedule of Values. Staff have determined that the cost of House #1 is \$82,187.31. The cost for House #2 is \$14,110.41. This house is eligible for 60% reimbursement. $\$14,110.41 \times 60\% = \$8,466.25$. The homeowner is responsible for \$5,644.17. $\$82,187.31 + \$8,466.25 = \$90,653.56$. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Joan Mack, in the amount not to exceed 90,653.56 to build her septic system.
- C. Kevin Mead Over \$30,000.00:** Mr. Mead's residence is located at 13712 Route 23A, Prattsville, New York 12468 in the Town of Prattsville. CWC staff determined that his septic system is failing. The engineer is Praetorius & Conrad, P.C. The contractor is GR Excavation Inc. Mr. Mead signed into the program on September 17, 2025. His Design Application was received by NYCDEP on March 20, 2026, and deemed complete on April 28, 2026. His septic system design was recommended for NYCDEP Design Approval on April 28, 2026. Mr. Mead's two-year deadline is September 17, 2027. His proposed septic system will serve a four-bedroom house. Major components of this system include a 1,250-gallon septic tank, a pump chamber, 15 linear feet of gravity pipe, 138 linear feet of force main, an effluent filter, 130 cubic yards of absorption fill material, four peat modules, 133 linear feet of swale, 170 linear feet of access road, remove four large trees and stumps, fill in an existing swale and site restoration. Three quotes were submitted to the homeowner for this project. They were \$85,386.58, \$86,127.43 and \$91,772.00. The lowest quote, submitted by GR Excavation Inc., is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended

that a resolution be brought before the Board of Directors to reimburse Kevin Mead in the amount not to exceed \$85,386.58 to build his septic system.

- D. Sandra Nascimento Over \$30,000.00:** Ms. Nascimento's residence is located at 3879 Freer Hollow Road, Walton, New York 13856 in the Town of Franklin. CWC staff determined that her septic system is failing. The engineer is Steele Brook Engineering, PLLC. The contractor is Ben Reynolds Construction Company, Inc. Ms. Nascimento signed into the program on September 28, 2025. Her Design Application was received by NYCDEP on February 2, 2026, and deemed complete on February 11, 2026. Her septic system design was recommended for NYCDEP Design Approval on May 5, 2026. Ms. Nascimento's two-year deadline is September 28, 2027. Her proposed septic system will serve a two-bedroom house. Major components of this system include a 1,000-gallon septic tank, 70 linear feet of gravity pipe, an effluent filter, one distribution box, 268 cubic yards of absorption fill material, 120 linear feet of Presby pipe, 15 cubic yards of C-33 sand, 66 linear feet of vent pipe, 80 linear feet of curtain drain, 75 linear feet of curtain drain outlet pipe, 60 linear feet of access road, additional stone for the access road due to uneven topography, remove 12 large trees and stumps, additional fill for stump voids and site restoration. Three quotes were submitted to the homeowner for this project. They were \$65,765.00, \$66,850.00 and \$67,500.00. The lowest quote, submitted by Ben Reynolds Construction Company, Inc., is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Sandra Nascimento in the amount not to exceed \$65,765.00 to build her septic system.
- E. Phyllis Parrish Over \$30,000.00:** Ms. Parrish's residence is located at 17 Hilltop Drive Extension, Maplecrest, New York 12454 in the Town of Windham. CWC staff determined that her septic system is likely to fail. The engineer is Praetorius & Conrad, P.C. The contractor is James Rion. Ms. Parrish signed into the program on September 3, 2025. Her Design Application was received by NYCDEP on March 11, 2026, and deemed complete on June 3, 2026. Her septic system design was recommended for NYCDEP Design Approval on June 3, 2026. Ms. Parrish's two-year deadline is September 3, 2027. Her proposed septic system will serve a four-bedroom house. Major components of this system include a 1,500-gallon septic tank, a siphon chamber, 314 linear feet of gravity pipe, an effluent filter, one distribution box, 630 cubic yards of absorption fill material, 330 linear feet of absorption trench, 130 linear feet of curtain drain, 60 linear feet of curtain drain outlet pipe, four clean outs, 20 linear feet of six-inch sleeve, 600 linear feet of access road, remove 15 trees, 20 linear feet of 15-inch culvert, install 20 linear feet of 15-inch culvert, remove six-inch drain pipes, three clay dams and site restoration. Three quotes were submitted to the homeowner for this project. They were \$94,028.00, \$109,909.96 and \$130,555.00. The lowest quote, submitted by James Rion, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Phyllis Parrish in the amount not to exceed \$94,028.00 to build her septic system.

- F. Ruslan Pozhoga Over \$30,000.00:** Mr. Pozhoga's residence is located at 80 Wase Road, Elka Park, New York 12427 in the Town of Hunter. CWC staff determined that his septic system is likely to fail. The engineer is Steele Brook Engineering PLLC. The contractor is Craig Bates Trucking & Excavating Inc. Mr. Pozhoga signed into the program on May 9, 2025. His Design Application was received by NYCDEP on August 5, 2025, and deemed complete on September 29, 2025. His septic system design was recommended for NYCDEP Design Approval on October 8, 2025. Mr. Pozhoga's two-year deadline is May 9, 2027. His proposed septic system will serve a four-bedroom house. Major components of this system include 20 linear feet of gravity pipe, 20 linear feet of force main, an effluent filter, 107 cubic yards of absorption fill material, 109 cubic yards of random fill material, three peat modules, 75 linear feet of swale, 50 linear feet of access road, remove 14 trees and site restoration. Three quotes were submitted to the homeowner for this project. They were \$47,216.00, \$49,500.00 and \$53,675.00. The lowest quote, submitted by Craig Bates Trucking & Excavating Inc., is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Ruslan Pozhoga in the amount not to exceed \$47,216.00 to build his septic system.
- G. Hard Capital Management, LLC Over \$30,000.00:** The Gateway Lodge is located at 11 Highlands Road, Highmount, New York 12441 in the Town of Shandaken. This project is eligible for 100% reimbursement under the Expanded Septic Program. CWC staff determined that their septic system is likely to fail. The engineer is Brinnier & Larios, P.C. The contractor is LaFever Excavating, Inc. Lou Zameryka of Hard Capital Management LLC, signed into the program on December 17, 2025. The septic system design was recommended for NYCDEP Design Approval on April 24, 2026. Hard Capital Management, LLC's two-year deadline is December 17, 2027. Their proposed septic system will serve an Inn/B&B containing 12 rooms and an occupancy for 36 guests including two occupants within the owner's quarters for a total capacity of 38 occupants. Major components of this system include a 3,500-gallon septic tank, one multi-flout dosing chamber, 51 linear feet of gravity pipe, 13 linear feet of six-inch PVC pipe, an effluent filter, two distribution boxes, 1,000 linear feet of Presby pipe, 121 cubic yards of C-33 sand, 252 linear feet of vent pipe, three cast iron risers, spread and reclaim excess material and site restoration. Four quotes were submitted to the owner for this project. They were \$82,515.00, \$91,414.49, \$92,6207.56 and \$93,202.98. The lowest quote, submitted by LaFever Excavating, Inc., is below the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Hard Capital Management, LLC in the amount not to exceed \$82, 515.00 to build their septic system.
- H. Paul Jurjens Over \$30,000.00 Second Time Repair:** Mr. Jurjens's residence is located at 3420 Pines Brook Road, Walton, New York 13856 in the Town of Walton. CWC staff determined that his septic system is failing. The engineer is Headwaters Engineering, PLLC. The contractor is LaFever Excavating, Inc. Mr. Jurjens signed into the program on August 18, 2025. His Design Application was received by NYCDEP on March 4, 2026, and deemed complete on March 18, 2026. His septic system design was recommended for NYCDEP Design Approval

on March 25, 2026. Mr. Jurjen's two-year deadline is August 18, 2027. His proposed septic system will serve a three-bedroom house. Major components of this system include one siphon chamber, 100 linear feet of gravity pipe, one distribution box, 403 cubic yards of absorption fill material, 220 linear feet of absorption trench, 105 linear feet of curtain drain with extra one foot depth, 85 linear feet of curtain drain outlet pipe, one riser, pump the existing septic tank, remove a fence, six-inch sleeve, extra one-foot depth curtain drain and site restoration. Three quotes were submitted to the homeowner for this project. They were \$46,840.00, \$47,079.00, and \$49,000.00. The lowest quote, submitted by LaFever Excavating, Inc, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Paul Jurjens in the amount not to exceed \$46,840.00 to build his septic system.

- I. **Cody Scofield Over \$30,000.00 Second Time Repair:** Mr. Scofield's residence is located at 10762 State Highway 206, Walton, New York 12450 in the Town of Hunter. CWC staff determined that his septic system is failing. The engineer is Headwaters Engineering, PLLC. The contractor is Scofield Stone and Gravel. Mr. Scofield signed into the program on August 14, 2024. His Design Application was received by NYCDEP on July 23, 2025, and deemed complete on July 25, 2025. His septic system design was recommended for NYCDEP Design Approval on September 3, 2025. Mr. Scofield's two-year deadline is August 14, 2026. The existing house has two bedrooms. Mr. Scofield is adding two additional bedrooms to the house. CWC is paying only for a septic system to serve the original two-bedroom house. Major components include a 1,250-gallon septic tank, one pump chamber, 31 linear feet of gravity pipe, 80 linear feet of force main, one distribution box, 495 cubic yards of absorption fill material, 275 linear feet of absorption trench, 185 linear feet of access road and site restoration. Three quotes were submitted to the homeowner for this project. They were \$58,936.13, \$62,356.00 and \$62,556.63. The lowest quote, submitted by Scofield Stone and Gravel, is within 10% of the staff estimated cost of construction based on the Schedule of Values. Mr. Scofield is responsible for cost for the two new bedrooms. These costs include the difference between a 1,250-gallon and a 1,000-gallon septic tank (\$454.14), one half of 495 cubic yards of absorption fill material (\$7,140.37), one half of the added haul time (\$2,598.75), one half of 275 linear feet of absorption trench (\$2,167.00) and one half of 9,440 square feet of restoration over the absorption field (\$4,908.80). Total homeowner costs are $\$454.14 + \$7,140.37 + \$2,598.75 + \$2,167.00 + \$4,908.80 = \$17,269.06$. Total project cost will be $\$58,936.11 - \$17,269.06 = \$41,667.07$. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Cody Scofield in the amount not to exceed \$41,667.07 to build his septic system.
- J. **Betty Aberlin Additional Costs:** Ms. Aberlin's residence is located at 49 Upper East Brook Road, Walton, New York 13856 in the Town of Walton. The engineer is Headwaters Engineering, PLLC. The contractor is Ben Reynolds Construction Company, Inc. This project was previously approved for \$46,990.00. The contractor damaged roots of a tree they were trying to save and the tree had to be taken down. An additional 45 cubic yards of absorption fill material was required to ensure a minimum depth of 21-inches in the basal area due to

significant changes in topography. The plan called for two distribution boxes. One was not installed and the contractor deducted the cost of that from the bill. The contractor has requested \$3,915.00 - \$925.00 (cost of one distribution box) = \$2,990.00 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$49,980.00. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Betty Aberlin in the amount not to exceed \$2,990.00 for additional costs to build her septic system.

- K. Erik Ellingsen Additional Costs:** Mr. Ellingsen's residence is located at 479 County Route 13, Lexington, New York 12468 in the Town of Lexington. The engineer is Christopher DiChiaro, P.E. The contractor is Native Excavation. This project was previously approved for \$25,850.00. Rock was encountered during construction. The contractor hammered for eight hours to attain necessary depth. The rock was unsuitable for backfill. Fill material had to be brought to the site to backfill tanks and pipe. Absorption fill material was added to the absorption field due to variations in topography. The contractor has requested \$8,160.65 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$34,010.65. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Erik Ellingsen in the amount not to exceed \$8,160.65 for additional costs to build his septic system.
- L. Nigel Hall Additional Costs:** Mr. Hall's residence is located at 487 Marvin's Way, Bovina New York 13740 in the Town of Bovina. The engineer is John Bolger, P.E. The contractor is Plante Plumbing & Septic. This project was previously approved for \$66,350.45. Orangeburg pipe between the house and previously installed septic tank broke during construction. Thirty linear feet of four-inch PVC pipe and a clean out were installed. Additional restoration was required for this area. The contractor has requested \$1,769.02 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$68,119.47. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Nigel Hall in the amount not to exceed \$1,769.02 for additional costs to build his septic system.
- M. Tammy Hillman Additional Costs:** Ms. Hillman's residence is located at 3025 Bullock Hill Road, Sidney Center, New York 13839 in the Town of Tompkins. The engineer is Steele Brook Engineering PLLC. The contractor is Ben Reynolds Construction Company, Inc. This project was previously approved for \$41,165.00. Rock was encountered during construction. The contractor hammered for 10 hours to attain necessary depth. The rock was unsuitable for backfill. Additional material was brought to the site to backfill the septic tank and pipe. The contractor has requested \$5,760.00 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$46,925.00. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Tammy Hillman in the amount not to exceed \$5,760.00 for additional costs to build her septic system.
- N. James Jackson Additional Costs:** Mr. Jackson's residence is located at 1130 South River Road, Walton, New York 13856 in the Town of Walton. The

engineer is Headwaters Engineering, PLLC. The contractor is Dutcher Construction. This project was previously approved for \$29,355.00. The existing 1,250-gallon septic tank was in good condition and did not need to be replaced. The contractor deducted the price of that for a total construction cost of \$23,441.84. During construction it was determined that there was not enough elevation to get gravity flow to the absorption field. A pump chamber had to be added. The contractor has requested \$12,656.61 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$36,098.45. The Committee recommended that a resolution be brought before the Board of Directors to reimburse James Jackson in the amount not to exceed \$12,656.61 for additional costs to build his septic system.

O. Michael Johnston Additional Costs Over \$30,000.00: Mr. Johnston's residence is located at 1821 Galli Curci Road, Arkville, New York 12406 in the Town of Shandaken. CWC staff determined that his septic system is failing. The engineer is Rex Sanford, P.E. The contractor is G.C. Landscaping and Excavation Inc. Mr. Johnston signed into the program on March 3, 2025. His Design Application was received by NYCDEP on May 12, 2026, and deemed complete on May 20, 2026. His septic system design was recommended for NYCDEP Design Approval on May 20, 2026. Mr. Johnston's two-year deadline is March 3, 2027. His proposed septic system will serve a one-bedroom house. This project was approved \$11,399.98 in 2025 for the installation of a 1,000-gallon septic tank. Most of the major components of this system include 68 linear feet of gravity pipe, one distribution box, 45 cubic yards of absorption fill material, 120 linear feet of absorption trench, 155 linear feet of access road, remove 11 trees and site restoration. The owner obtained a quote from G.C. Landscaping and Excavation Inc. for \$23,167.91. This amount is within 10% of the staff estimated cost of construction based on the Schedule of Values. The total project cost will be \$34,567.89. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Michael Johnston in the amount not to exceed \$23,167.91 for additional costs to build his septic system.

P. Jonathan Kligler Additional Costs: Mr. Kligler's residence is located at 359 Ohayo Mountain Road, Woodstock, New York 12498 in the Town of Woodstock. The engineer is Rex Sanford, P.E. The contractor is Harvey Ostrander Excavating Inc. This project was previously approved for \$45,766.65. Rock was encountered during construction. The contractor hammered for 16 hours to attain necessary depth. Rock excavated from hammering was spread onsite. Additional restoration was required. The contractor has requested \$6,480.00 for the added work. This amount appears to be reasonable and justifiable. This is a secondary residence eligible for 60% reimbursement. $\$6,480.00 \times 60\% = \$3,888.00$. The total project cost will be \$49,654.65. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Jonathan Kligler in the amount not to exceed \$3,888.00 for additional costs to build his septic system.

Q. Megan Moore Additional Costs Over \$30,000.00: Ms. Moore's residence is located at 1408 Federal Hill Road, Delhi, New York 13753 in the Town of Delhi. CWC staff determined that her septic system is failing. The engineer is Headwaters Engineering, PLLC. The contractor is A&M Excavating. Ms. Moore

signed into the program on July 16, 2025. Her Design Application was received by NYCDEP on January 28, 2026, and deemed complete on February 3, 2026. Her septic system design was recommended for NYCDEP Design Approval on May 13, 2026. Ms. Moore's two-year deadline is July 16, 2027. Her proposed septic system will serve a four-bedroom house. This project was approved \$3,014.00 in 2014 for the installation of a 1,250-gallon septic tank. Most of the major components of this system include 95 linear feet of gravity pipe, one distribution box, 560 cubic yards of absorption fill material, 280 linear feet of Presby piping, 34 cubic yards of C-33 sand, 203 linear feet of vent pipe, 95 linear feet of curtain drain, 20 linear feet of curtain drain outlet pipe, 120 linear feet of access road, ump the existing septic tank and site restoration. Three quotes were submitted to the owner. They were \$55,113.00, \$57,438.47 and \$58,200.00. The lowest quote, submitted by A&M Excavating, is within 10% of the staff estimated cost of construction based on the Schedule of Values. The total project cost will be \$58,127.00. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Megan Moore in the amount not to exceed \$55,113.00 for additional costs to build her septic system.

- R. **Mark Wheaton Additional Costs:** Mr. Wheaton's residence is located at 605 Cross Road, Margaretville, New York 12455 in the Town of Middletown. The engineer is Paul Gossen, P.E. The contractor is Jim Peters Excavating LLC. This project was previously approved for \$65,710.05. Rock was encountered during construction. The contractor hammered for 18 hours to attain necessary depth. The contractor has requested \$6,412.50 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$72,122.55. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Mark Wheaton in the amount not to exceed \$6,412.50 for additional costs to build his septic system.
- S. **Jacob Zolfo Additional Costs:** Mr. Zolfo's residence is located at 913 Wittenberg Road, Mount Tremper, New York 12457 in the Town of Woodstock. The engineer is Christopher DiChiaro, P.E. The contractor is L&L Earthworx, LLC. This project was previously approved for \$34,639.73. A gutter drain was discovered directly on top of the existing tank while digging to replace it. The contractor had to reroute the drain away from the new septic tank and connect it to other drains. The contractor has requested \$625.00 for the added work. This amount appears to be reasonable and justified. The total project cost will be \$35,264.73. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Jacob Zolfo in the amount not to exceed \$625.00 for additional costs to build his septic system.
- T. **Fabulous Furniture Additional Costs:** Fabulous Furniture is located at 3930 State Route 28, Boiceville, New York 12412 in the Town of Olive. The engineer is Rex Sanford, P.E. The contractor is Chad Davis Contracting Inc. This project is in the Expanded Septic Program and was previously approved for \$59,247.86. A second septic tank was discovered during construction. It had to be pumped out and decommissioned. The contractor has requested \$1,500.00 for the added work. This amount appears to be reasonable and justifiable. The total project cost will be \$60,747.86. The Committee recommended that a resolution be

brought before the Board of Directors to reimburse Fabulous Furniture in the amount not to exceed \$1,500.00 for additional costs to build their septic system.

- U. **Michael Ryder Second Time Repair Additional Costs:** Mr. Ryder's residence is located at 81 Schweitzer Road, Chichester, New York 12416 in the Town of Shandaken. The engineer is Rex Sanford, P.E. The contractor is Michael Formont. This project was previously approved for \$64,405.19. A perimeter drain was encountered while excavating for the septic tank. It had to be re-directed and extended around the septic system. The contractor has requested \$760.32 for the added work. This amount appears to be reasonable and justifiable. The total project cost will be \$65,165.51. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Michael Ryder in the amount not to exceed \$760.32 for additional costs to build his septic system.
- V. **Carol Ann Constable Second Time Repair:** Ms. Constable's residence is in the Town of Neversink, Section, Block and Lot number 40-1-21.34. This project was paid for in 2010 under the Priority 1B Program. The absorption field is saturated and level in the septic tank is high. The owner had maintenance pump outs in 2018 and 2026. The Committee recommended that a resolution be brought before the Board of Directors to approve Carol Ann Constable for a second time repair.
- W. **Maria Georgopolous Second Time Repair:** Ms. Georgopolous' residence is in the Town of Olive, Section, Block and Lot number 46.5-4-39. This project was paid for in 1999 under the Coordinator Program. The pump stopped working. The control panel, wiring, junction box and two floats were determined to be faulty and have been replaced. The owner had maintenance pump outs in 2005 and 2018. The Committee recommended that a resolution be brought before the Board of Directors to approve Maria Georgopolous for a second time repair.
- X. **Gertrudes Pajaron Second Time Repair:** Ms. Pajaron's residence is in the Town of Conesville, Section, Block and Lot number 210-2-5.2. This project was paid for in 2012 under the Priority 7 Program. The pump stopped working. There is power to the control panel, but none is going to the pump. The control panel and possibly wiring, hardware and a pump may need to be replaced. A maintenance pump out was done in 2024. The Committee recommended that a resolution be brought before the Board of Directors to approve Gertrudes Pajaron for a second time repair.
- Y. **Elizabeth Walter Gerard Second Time Repair:** Ms. Walter Gerard's residence is in the Town of Middletown, Section, Block and Lot number 326-1-46. This project was paid for in 1999 under the Reimbursement Program through a previous owner. The absorption field is no longer working. The level in the septic tank is high and sewage is backing up into the house. We have no records of maintenance pump outs. The Committee recommended that a resolution be brought before the Board of Directors to approve Elizabeth Walter Gerard for a second time repair.

Z. Win Law Corp. Septic Maintenance Over \$1,000.00: The Skyrise Apartments, owned by Win Law Corp., are located at 37-69 Mount Ava Maria Drive, Phoenicia, New York 12464 in the Town of Shandaken. The contractor is Chad Davis Contracting Inc. The owner has submitted a reimbursement request to the Septic Maintenance Program for pumping 4,500 gallons from the septic tank at a cost of \$2,025.00. Their eligibility is 50%. $\$2,025.00 \times 50\% = \$1,012.50$. Program Rules require approval from the Septic Committee and Board of Directors for funding requests over \$1,000.00. The Committee recommended that a resolution be brought before the Board of Directors to reimburse Win Law Corp. in the amount not to exceed \$1,012.50 for costs to pump out their septic tank.

AA. Septic Maintenance: Mitch reported that pump out costs were reimbursed to 78 property owners last month. A total of 314 pump out costs have been reimbursed this year. This is 60 more than last year at this time.

BB. Septic Cluster: There was nothing to report this month.

CC. Septic Update: Mitch Hull reported that 31 septic system repair costs were reimbursed to property owners last month. Property owners have been reimbursed for 73 septic system repair costs in 2026. This is 20 more than last year at this time.

DD. Other: Jason reviewed the Septic Program Funding Chart. The current backlog is 262. An invoice is coming soon.

Mitch introduced Lee Verbridge from Fuji Clean USA. Fuji aerobic treatment units may offer cost savings.

Lee spoke about his family home septic system that failed when he was in high school. An excavator came and tore up the whole yard. His stepfather began to think septic systems could be built better. He invented the Infiltrator. Lee watched the company his stepfather formed; Infiltrator Systems, now Infiltrator Water Technologies, grow to 35% of the market share.

Lee went to Japan, where a population half the size of the United States lives in an area about the size of California. There are no conventional septic systems in Japan. The Fuji company was founded in 1961. Lee said that their aerobic treatment tanks don't really need a leach field. Much of the cost of our systems are for "bringing in dirt. We don't need dirt."

FujiClean USA was founded in 2013. They have two plants in the United States. Their offices are in Maine. Fuji Clean aerobic tanks run on a small diaphragm blower. They use very little energy. He played a video that explained the three chambers in the tank; a settlement chamber, an anaerobic contact chamber and an aeration contact chamber where treatment takes place. Lee said that Fuji aerobic treatment units remove 95% of pollutants. Fuji tanks are very good at removing nitrogen and phosphorous.

Bennett Burks is an engineer who worked at University of Wisconsin. He tested aerobic treatment systems and found they had less impact on soils. There are three layers in a conventional septic tank. The top layer is made up of floating oils and grease (FOGs), Sludge accumulates at the bottom of septic tanks. In between is a layer of clarified water. This goes out to the drain field. Treatment occurs in the soil.

Treatment occurs within the tank in Fuji systems. They offer reduced absorption field areas. In Maine a 75% reduction in absorption field area over a system with a septic tank is allowed, New Hampshire also allows a 75% reduction. Vermont and Alaska allow 50%. New York State allows 35%. Here in the West of Hudson Watershed though, absorption fields must be sized "to the extent possible." Lee said that without reductions, Fuji Clean USA's market is outside of the watershed.

There are Fuji systems from the 1960s that are still operating. Maintenance is required. A typical maintenance contract costs \$300.00-\$400.00. Fuji systems with adequate maintenance from the 1960s are still running. The Long Term Acceptance Rate (LTAR) is important. Cleaner effluent leads to higher LTAR.

Fuji tanks are smaller than conventional septic systems. They can offer savings in rock excavation. Bennett Burks spoke about his experience examining why absorption fields fail. The primary reason is that biomats grow too thick. By installing a Fuji tank, he has seen absorption fields rejuvenate.

The Technical Advisory Council of the Watershed Partnership Protection Council used to meet to discuss these issues. NYCDEP, NYSDOH and NYSDEC need to come together.

Conservation of absorption fill material is a growing concern. Material was being brought to a recent project in the Town of Andes from a gravel pit in Conesville, well over an hour from the site. The trucking company delivering it was from Jewett, even farther away. This is costly and becoming unsustainable.

The reason for using stone in conventional trenches is to create voids.

Jason mentioned that if we paid for maintenance, we would still be saving costs.

Fuji systems have alarms. Technicians come to sites regularly to inspect tanks. Nobody has eyes on conventional septic systems. Fuji systems are inspected every year and have alarms. Mitch described systems staff have looked at in Morris. A pizza restaurant and a bank have entire systems in small parking lots. They drain into drywells and are working well.

Lee spoke about Suffolk County, where there is a very large number of onsite septic systems. New designs there nearly all incorporate aerobic units.

Jim Brooks said that there are 50 Fuji systems in West Oneonta. Each was installed for under \$20,000.00.

SUNY Stonybrook offers funding assistance to property owners in any part of the State to install Fuji CRX tanks.

Joe Cetta asked, when CWC gets a Septic Program funding request for a new septic tank, who decides what to do? It is largely left to engineers. Absorption fields sized "to the best extent possible" are becoming costly.

Jim Brooks asked if there is openness to a reduction in absorption field reductions on sites where there is room? He noted that the first three projects on the Septic Committee Agenda today cost over \$90,000.00 each. He added that DEP said using Fuji systems in the Walton Country Meadows trailer park would cause the design to fall under requirements for an ALT/MOD system. This makes costs prohibitive. The code is not clear.

Engineers need to buy in to the idea of using aerobic units in designs. A suggestion was made that CWC could fund the lower cost system. If an owner doesn't like the idea of including an aerobic treatment unit in their system, they could pay the difference.

Jim Brooks spoke about a proposal to use Fuji tanks to remediate a system failure in a campground. The design was rejected. The system is still in failure. He believes it could be fixed with the rejected plan.

Engineers are reluctant to use Fuji aerobic units because getting approval on designs including them is time consuming. There are other aerobic treatment manufacturers who meet NSF 40 testing requirements.

Eljen and Presby absorption field designs are allowed a 33% reduction in absorption field size. This makes aerobic treatment unit designs a hard sell. Jim Brooks responded that Fuji offers better water quality and many other areas allow larger reductions.

EE. The next Septic Committee Meeting was scheduled for August 4, 2026.

VI. The meeting adjourned at 11:14 AM.

Judith Alcala Over \$30,000:

Address: 1033 Route 28A, West Hurley, NY 12491

Town: Hurley

Bedrooms: 2

Engineer: Christopher DiChiaro P.E.

Contractor: Chad Davis Contracting

Sign In Date: 11/14/24

Design Application Received By DEP: 2/20/24

Design Application Deemed Complete: 4/27/26

Date Recommended for DEP Design Approval: 4/27/26

2-Year Deadline: 11/14/26

The major components will include one 1000-gallon septic tank, 188 l.f. of gravity pipe, one effluent filter, one distribution box, 222 c.y. of absorption fill material, 160 l.f. of Presby pipe, 21 c.y. of C-33 sand, 50 l.f. of vent pipe, 40 l.f. of 6" sleeve, 19 trees to be removed, saw cut pavement, remove rock wall, regrade above leach field to prevent ponding, and site restoration. The homeowner received three quotes. They were \$57,846.92, \$59,620.52 and \$62,340.07. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$57,846.92.

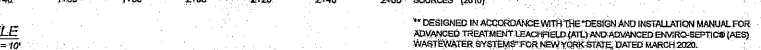
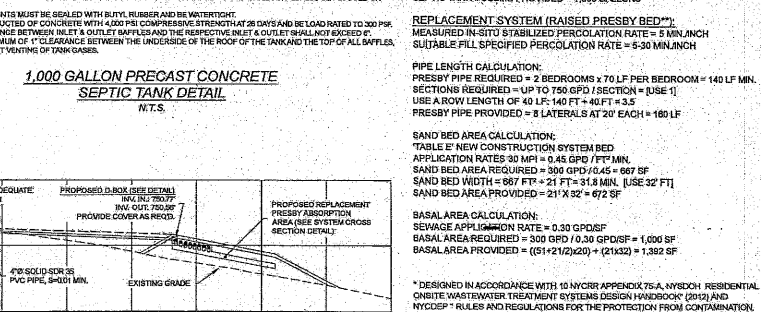
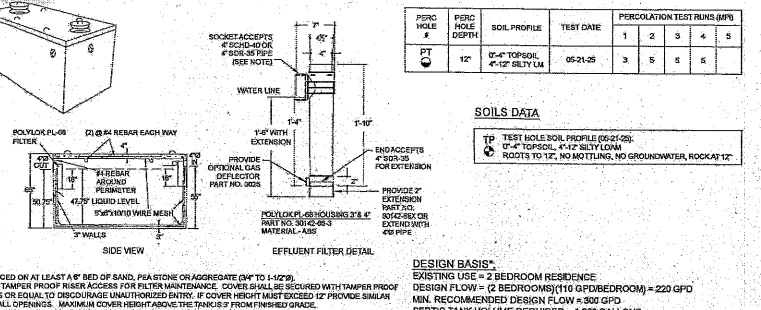
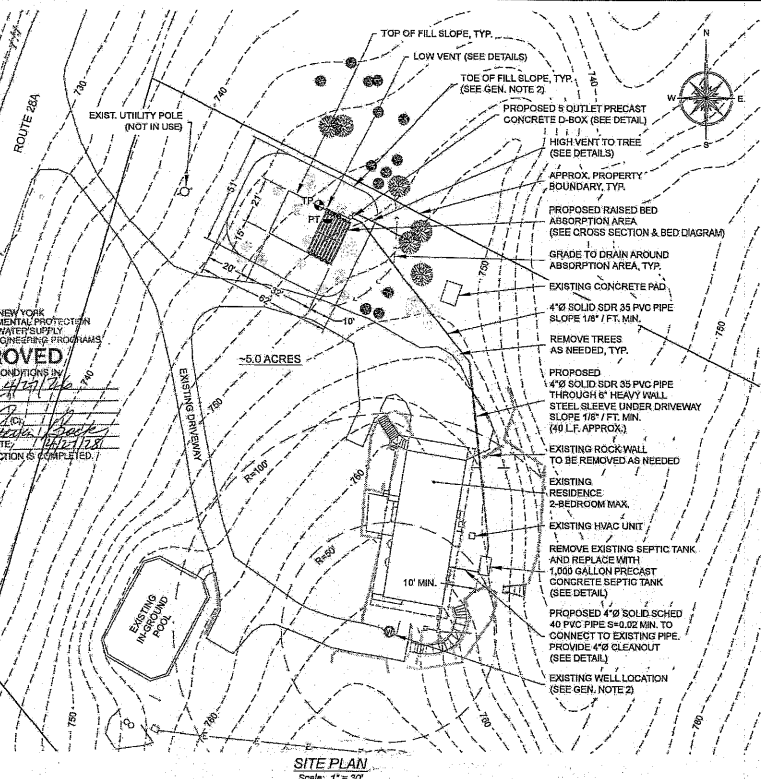
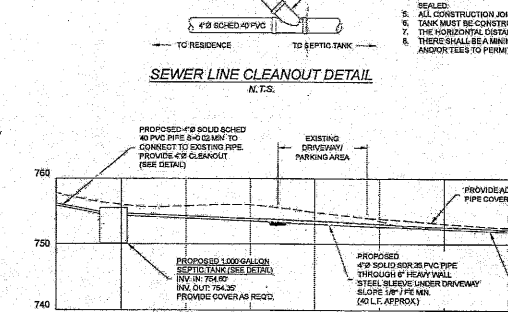
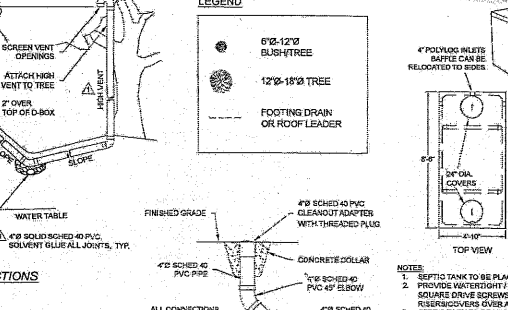
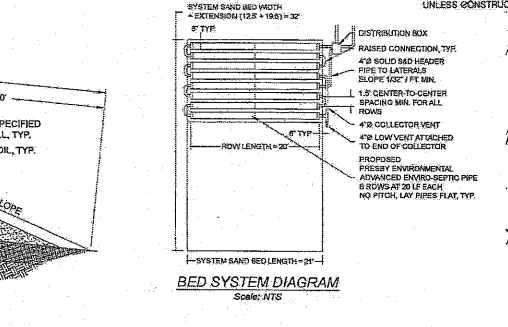
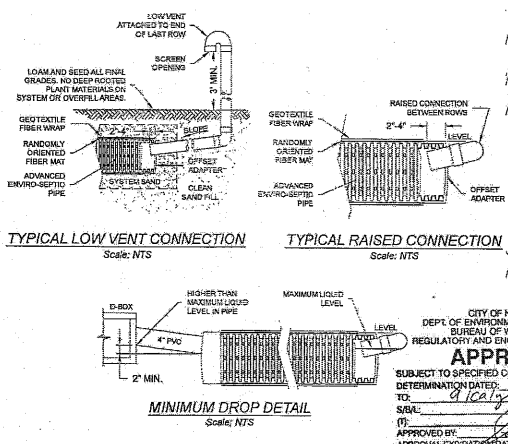
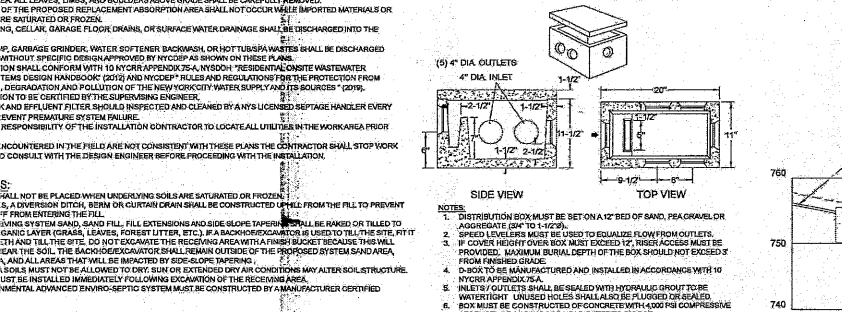
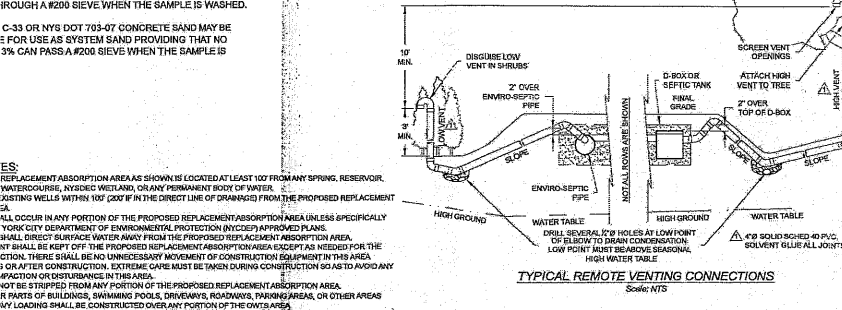
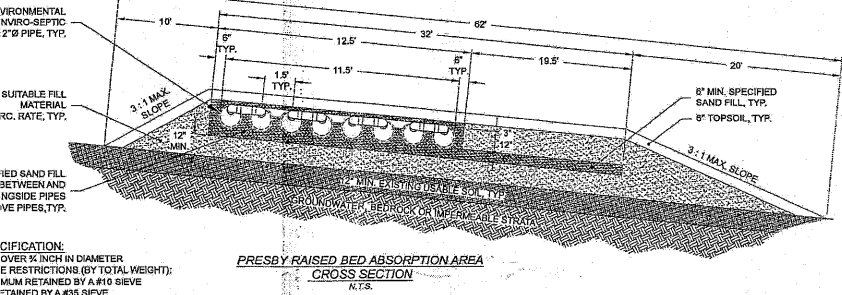
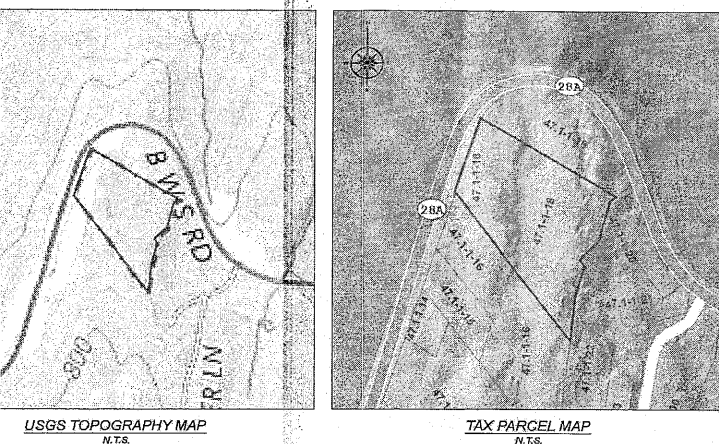
Cost Estimate

Homeowner: Judith Alcala
SBL #: 47.1-1-18
Designer: Christopher Dichiaro
Completed By: Mitch Hull
Date: 5/27/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	188	\$13.36	\$2,511.68
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	222	\$28.85	\$6,404.70
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1.5 Hr. Haul Time	CY	243	\$15.75	\$3,827.25
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	160	\$30.77	\$4,923.20
18	NYSDOT C-33 Sand (Presby)	CY	21	\$48.23	\$1,012.83
19	Vent Pipe	LF	50	\$11.52	\$576.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	7272	\$1.04	\$7,562.88
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	0	\$20.70	\$0.00
29	remove existing rock wall		1	\$650.00	\$650.00
30	6" steel sleeve		40	\$34.76	\$1,390.40
31	19 trees to be removed		1	\$14,200.00	\$14,200.00
32	regrade above leach field 70 ft		1	\$1,500.00	\$1,500.00
33	saw cut pavement		1	\$1,800.00	\$1,800.00
				TOTAL	\$52,809.70
				ADD 10%	\$58,090.67



Ralph Combe Over \$30,000:

Address: 783 Oliverea Rd., Big Indian, NY 12410

Town: Shandaken

Bedrooms: 3

Engineer: Rex Sanford P.E.

Contractor: Josh Construction

Sign In Date: 7/21/25

Design Application Received By DEP: 4/15/26

Design Application Deemed Complete: 6/22/26

Date Recommended for DEP Design Approval: 6/22/26

2-Year Deadline: 7/21/27

The major components will include a one 1,000-gallon H2O septic tank, 38 l.f. of gravity pipe, 50 l.f. of sch. 80, one distribution box, 5 c.y. of absorption fill material, 250 l.f. of Presby pipe, 55 c.y. of C-33, 48 l.f. of vent, spread & reclaim excess material, saw cut pavement, plumbing modification, 2 steel plates, and site restoration. The homeowner received three quotes. They were \$38,621.40, \$39,885.99 and \$40,873.06. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$38,621.40.

Cost Estimate

Homeowner: Ralph Combe
SBL #: 23-1-9.300
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 6/29/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #	Units	Quantity	Unit Cost	Cost
1	Septic Tank			
	1,000 Gallon Tank With System H2 EA	1	\$8,318.17	\$8,318.17
	1,250 Gallon Tank With System EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System EA	0	\$5,822.91	\$0.00
2	Pump Chamber EA	0	\$10,657.61	\$0.00
3	Syphon Chamber EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC LF	38	\$13.36	\$507.68
5	sch 80 LF	50	\$21.71	\$1,085.50
6	D-Box EA	1	\$879.97	\$879.97
7	Absorption Fill Material CY	5	\$28.85	\$144.25
8	Random Fill Material CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time CY	60	\$21.00	\$1,260.00
10	Topsoil haul EA	40	\$15.75	\$630.00
11	Conventional Absorption Bed SF	0	\$6.25	\$0.00
12	Absorption Trench LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems) SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench) CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems) SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed) CY	0	\$48.23	\$0.00
17	Presby Systems Pipe LF	250	\$30.77	\$7,692.50
18	NYSDOT C-33 Sand (Presby) CY	55	\$48.23	\$2,652.65
19	Vent Pipe LF	48	\$11.52	\$552.96
19	Curtain Drain (36" Avg. Depth) LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe LF	0	\$11.52	\$0.00
21	Swale LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch SF	3333	\$1.04	\$3,466.32
23	4" Clean Out EA	1	\$185.00	\$185.00
24	Silt Fence LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid EA	2	\$736.17	\$1,472.34
26	Additional Riser Section EA	0	\$98.00	\$0.00
27	Access Road LF	0	\$20.70	\$0.00
29	Spread & reclaim excess material	1	\$1,250.00	\$1,250.00
30	saw cut pavement	1	\$1,000.00	\$1,000.00
31	plumbing mod	1	\$4,500.00	\$4,500.00
32	steel plate	2	\$450.00	\$900.00
33		0	\$0.00	\$0.00
			TOTAL	\$36,497.34
			ADD 10%	\$40,147.07

John Enochy Over \$30,000:

Address: 41 Spruceton Rd., Westkill, NY 12494

Town: Lexington

Bedrooms: 3

Engineer: Praetorius & Conrad P.C.

Contractor: Native Excavation

Sign In Date: 3/27/26

Design Application Received By DEP: 7/1/26

Design Application Deemed Complete: 7/20/26

Date Recommended for DEP Design Approval: 7/20/26

2-Year Deadline: 3/27/28

The major components include a 1,000-gallon septic tank, one pump chamber, 62 l.f. of gravity pipe, 70 l.f. of force main, one effluent filter, one distribution box, 420 s.f. of absorption bed, 135 l.f. of access rd., set tanks with large machine, spread & reclaim excess material, and site restoration. The homeowner received a quote for \$34,565.09. The quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$34,565.09.

Cost Estimate

Homeowner: John Enochy
 SBL #: 160.10-1-8
 Designer: Praetorius & Conrad
 Completed By: Mitch Hull
 Date: 7/20/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	62	\$13.36	\$828.32
5	Force Main 2"PVC	LF	70	\$11.36	\$795.20
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	0	\$28.85	\$0.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	0	\$10.50	\$0.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	420	\$6.25	\$2,625.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	4240	\$1.04	\$4,409.60
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	135	\$20.70	\$2,794.50
29	Spread & reclaim excess material		1	\$1,550.00	\$1,550.00
30	Set tanks with Large machine		1	\$1,500.00	\$1,500.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$31,794.99
				ADD 10%	\$34,974.49

Denis Kuchta Over \$30,000:

Address: 151 Taco Lane, Margaretville, NY 12455

Town: Middletown

Bedrooms: 4

Engineer: Steele Brook Engineering

Contractor: Don Allen Excavating

Sign In Date: 5/16/25

Design Application Received By DEP: 12/5/25

Design Application Deemed Complete: 12/11/25

Date Recommended for DEP Design Approval: 4/17/26

2-Year Deadline: 5/16/27

The major components include a 1,250-gallon septic tank, 84 l.f. of gravity pipe, one effluent filter, one distribution box, 182 c.y. of absorption fill material, 275 l.f. of absorption trench, 117 l.f. of curtain drain, 38 l.f. of curtain drain outlet pipe, 117 l.f. of swale, 1 tree to be removed, and site restoration. The homeowner received a quote for \$33,850.00. The quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$33,850.00.

Cost Estimate

Homeowner: Denis Kuchta
SBL #: 242-2-15.21
Designer: Steele Brook Engineering
Completed By: Mitch Hull
Date: 6/2/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	0	\$4,917.79	\$0.00
	1,250 Gallon Tank With System	EA	1	\$5,371.95	\$5,371.95
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	84	\$13.36	\$1,122.24
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	182	\$28.85	\$5,250.70
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	182	\$10.50	\$1,911.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	275	\$15.76	\$4,334.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	117	\$21.10	\$2,468.70
20	Curtain Drain Outlet Pipe	LF	38	\$11.52	\$437.76
21	Swale	LF	117	\$7.39	\$864.63
22	Topsoil, Seed & Mulch	SF	7280	\$1.04	\$7,571.20
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	0	\$20.70	\$0.00
29	1 tree to be removed		1	\$450.00	\$450.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$31,315.15
				ADD 10%	\$34,446.67

Joseph Leonard Over \$30,000:

Address: 2821 Bloomville Hill Rd., Bloomville, NY 13753

Town: Meredith

Bedrooms: 3

Engineer: Headwaters Engineering, PLLC

Contractor: A&M Excavating

Sign In Date: 3/23/26

Design Application Received By DEP: 5/5/26

Design Application Deemed Complete: 5/20/26

Date Recommended for DEP Design Approval: 6/5/26

2-Year Deadline: 3/23/28

The major components include a 1,000-gallon septic tank, 130 l.f. of gravity pipe, one distribution box, 615 c.y. of absorption fill material, 150 l.f. of Presby pipe, 20 c.y. of C-33 sand, 184 l.f. of vent pipe, 95 l.f. of curtain drain, 100 l.f. of curtain drain outlet pipe, 2 clean outs, 75 l.f. of access rd. and site restoration. The homeowner received three quotes. They were \$56,200.00, \$58,590.00 and \$60,700.00. The low quote is below the staff estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$56,200.00.

Cost Estimate

Homeowner: Joseph Leonard
 SBL #: 84-2-2
 Designer: Ben Dates
 Completed By: Mitch Hull
 Date: 6/25/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	130	\$13.36	\$1,736.80
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	615	\$28.85	\$17,742.75
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	635	\$10.50	\$6,667.50
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	150	\$30.77	\$4,615.50
18	NYSDOT C-33 Sand (Presby)	CY	20	\$48.23	\$964.60
19	Vent Pipe	LF	184	\$11.52	\$2,119.68
19	Curtain Drain (36" Avg. Depth)	LF	95	\$21.10	\$2,004.50
20	Curtain Drain Outlet Pipe	LF	100	\$11.52	\$1,152.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	10805	\$1.04	\$11,237.20
23	4" Clean Out	EA	2	\$185.00	\$370.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	75	\$20.70	\$1,552.50
29			0	\$0.00	\$0.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$56,428.79
				ADD 10%	\$62,071.67

TRACTOR AES - RAISED SYSTEM REPLACEMENT: IN PARAMETERS

SIGN FLOW RATE

NUMBER OF BEDROOMS: 3
3 GAL/DAY/BEDROOM X 3 BEDROOMS = 330 GAL/DAY

SIGN ABSORPTION TRENCHES - DOH SSTS DESIGN, TABLE EC

SIGN PERCOLATION RATE: 5-10 MIN/IN.
0 GAL/DAY @ 10 MIN/IN = 136 LF (MIN.) OF 2 FT WIDE ABSORPTION TRENCH

VAL ABSORPTION TRENCHES: 3 TRENCHES @ 50 LF/TRENCH = 150 LF OF TRENCH

SIGN BASAL AREA

VAL AREA REQUIRED: 1,350 SF MIN. AREA FOR 3-BEDROOM HOUSE AT 330 GAL/DAY
(NOTET 25% REDUCTION IN BASAL AREA W/ AES PIPE (1,200 SF)
1 FT/TRENCH @ 2.25 (FT) = 55 FT (LENGTH)
3E 28 LF (WIDTH) TO MAINTAIN CONSISTENT 8 FT TRENCH SPACING ON CENTER
VAL BASAL AREA: 55 FT (LENGTH) * 25 (WIDTH) = 1,365

NRCS SOIL GROUPS

SOIL GROUP NAME	SOIL GROUP ID	HYDROLOGIC SOIL GROUP	HYDROIC SOIL RATING	NATURAL DRAINAGE CLASS
Willowemoc channely silt loam, 4 to 6 percent slopes	WmB	D	No	Moderately well drained



NYC DEP APPROVAL *

REQUIRED FOR CONSTRUCTION CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

SUBJECT TO SPECIFIED CONDITIONS IN
DETERMINATION DATED: 06/05/2026

TO: Joseph Leonard

S/B/L: 04-3-3

(1): Muddah, Delawace

APPROVED BY: [Signature]

APPROVAL EXPIRATION DATE: 06/05/2028

UNLESS CONSTRUCTION IS COMPLETED

NOTE:

THIS SSTS REPLACEMENT PROJECT IS PART OF THE CATSKILL WATERSHED CORPORATION'S RESIDENTIAL SEPTIC REHABILITATION AND REPLACEMENT PROGRAM. THE PROGRAM REIMBURSES PERMANENT RESIDENTS LIVING IN THE WEST-OF-HUDSON NEW YORK CITY WATERSHED 100% OF ELIGIBLE COSTS OF DESIGNING AND REPAIRING/REPLACING A FAILED SEPTIC SYSTEM THAT PREDATES NOVEMBER 2, 1995.

SSTS CONSTRUCTION QUANTITIES

ENGINEER'S ESTIMATE; CONTRACTOR TO BE RESPONSIBLE FOR OWN TAKE-OFFS AND FINAL QUANTITIES FOR CWC PROPOSAL

SYSTEM COMPONENT	QUANTITY	UNIT
1000-GAL PRE-CAST CONCRETE SEPTIC TANK W/ RISERS TO GRADE	1	EA
5-OUTLET PRE-CAST CONCRETE DISTRIBUTION BOX W/ SPEED LEVELERS	1	EA
4-IN DIAM. SCH40 PVC CLEAN-OUT	1	EA
4-IN DIAM. SCH40 PVC SANITARY SEWER	6	LF
4-IN DIAM. SDR35 CLEAN-OUT	1	EA
4-IN DIAM. SDR35 EFFLUENT LINE	155	LF
TEMPORARY HAUL ROAD	75	LF
ABSORPTION FILL (6-10 MIN/IN. PERC. RATE)	615	CY
TOPSOIL	126	CY
AES ABSORPTION TRENCH (12-IN DIAM. AES GEOTEXTILE-WRAPPED PIPE IN 2-3 SAND TRENCH)	150	LF
4-IN DIAM. PERF. SDR35 PIPE CURTAIN DRAIN	85	LF
4-IN DIAM. SOLID SDR35 CURTAIN DRAIN OUTLET W/ ANIMAL GUARD	100	LF

END

- EXISTING CONTOUR, MAJOR
- EXISTING CONTOUR, MINOR
- PROPERTY LINE
- OVERHEAD UTILITY LINE
- PROPOSED WASTEWATER LINE
- SOIL TYPE BOUNDARY
- EXISTING TREE LINE

GENERAL NOTES

- PARCEL LINES SHOWN ON DRAWINGS WERE OBTAINED FROM THE DELAWARE COUNTY GIS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PARCEL BOUNDARY LINES SHOWN ARE CONSISTENT WITH THE ACTUAL PROPERTY BOUNDARY AND THAT THE PROPOSED ABSORPTION FIELD AND ASSOCIATED COMPONENTS ARE NOT ON A NEIGHBORING PARCELF. CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING SITE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS. CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY DOB (NEW YORK CITY DEPT. OF BUILDINGS) AND THE PROJECT OWNERS/RESIDENTS. THE PROJECT ENGINEER (BENJAMIN DATES, P.E.), AND THE NYC DEP (NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION) MUST BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW THE LOCATION OF UNDERGROUND UTILITIES AND CO-EXISTING POTENTIAL CONFLICTS PRIOR TO CONSTRUCTION; CONTRACTOR SHALL COORDINATE WITH THE HOMEOWNER TO FIELD-VERIFY ANY PRIVATE UTILITIES ON-SITE.
- IF A SWALE/POND CURTAIN DRAIN ARE PROPOSED ABOVE THE NEW ABSORPTION FIELD, CONTRACTOR TO INSTALL THESE ITEMS BEFORE CONSTRUCTING THE ABSORPTION FIELD.
- PRIOR TO PLACEMENT OF FILL FOR THE ABSORPTION FIELD, CONTRACTOR TO SCARIFY ENTIRE SURFACE AREA USING BUCKET "TEETH" ON OTHER APPROVED METHOD. SCARIFYING SHALL BE BROKEN SO THAT THE PLANTY FILL IS DIRECTLY EXPOSED TO EXISTING IN-SITU SOIL. CONTRACTOR SHALL ENSURE THAT EXISTING GRASS/LEAF LITTER DOES NOT INFILTRATE THROUGH THE PLACED FILL AND INTO THE FRANKIE SOIL ON-SITE.
- ALL AREAS OF DISTURBANCE SHALL BE STABILIZED WITH SEED AND MULCH FOLLOWING CONSTRUCTION COMPLETION.
- THE SEPTIC SYSTEM MUST BE INSTALLED IN THE VICINITY AS SHOWN ON THESE PLANS. THE PROJECT ENGINEER AND THE NYC DEP MUST BE CONTACTED AND CONSULTED PRIOR TO ANY SIGNIFICANT CHANGES.
- COORDINATE ALL EVENTS WITH PROJECT ENGINEER DURING CONSTRUCTION.

OVERALL PLAN

(SCALE: 1" = 20' AT FULL SIZE PLOT, 22/20"
1" = 40' AT HALF SIZE PLOT, 11/16")
HORIZONTAL SCALE IN FEET
1" = 20'



SOILS TEST RESULTS

TEST PIT ID	SLOPE THROUGH TEST PIT (%)	DEPTH OF TEST PIT (IN)	DEPTH TO BOUNDARY CONDITION (IN)	BOUNDARY CONDITION / LIMITING STRATA LAYER	ROOT DEPTH (IN)	USABLE SOIL DEPTH (IN)	PERCOLATION TEST HOLE DEPTH (IN)	PERCOLATION RATES (MIN/IN)
TPH1	2	28	5	METTLING	12	NA	NA	NA

SOIL TESTING NOTES

- DEEP TEST PIT ANALYSIS AND PERCOLATION TESTS PERFORMED ON 4/15/26 BY BENJAMIN DATES, P.E. AND WITNESSED BY J. CRAIG N. HILL (NYC DEP, WEATHER DURABLE ANALYSIS, SITE AND OVERCAST).
- NRCS SOIL TYPE BOUNDARY LOCATED AT TEST PIT LOCATION: WILLOWemoc CHANNELLY SILT LOAM (WmB). SOIL ENCOUNTERED DURING TEST PIT INVESTIGATIONS WAS SILT LOAM.

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1 6/23/26 DE

PROPOSED
SSTS REP

Working G
NOTE: Unauthorized site
drawing is a violation
of the New York State
Education Law 16



Project Number:
MER-010

Drawing Number:

C01

Piotr Maceczek Over \$30,000:

Address: 213 Route 52, Prattsville, NY 12468

Town: Prattsville

Bedrooms: 3

Engineer: Lamont Engineers

Contractor: Blue Mountain Excavation

Sign In Date: 7/18/25

Design Application Received By DEP: 10/22/25

Design Application Deemed Complete: 1/29/26

Date Recommended for DEP Design Approval: 3/2/26

2-Year Deadline: 7/18/27

The major components include a 1,000-gallon septic tank, one pump chamber, 15 l.f. of gravity pipe, 95 l.f. of force main, one effluent filter, one distribution box, 472 c.y. of absorption fill material, 275 l.f. of absorption trench, 160 l.f. of curtain drain, 75 l.f. of curtain drain outlet pipe, and site restoration. The homeowner received three quotes. They were \$52,139.33, \$53,445.08, and \$54,308.27. The low quote is below our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$52,139.33.

Cost Estimate

Homeowner: Piotr Maceczek
SBL #: 128.00-1-27
Designer: Lamont Engineers
Completed By: Mitch Hull
Date: 5/20/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	15	\$13.36	\$200.40
5	Force Main 2"PVC	LF	95	\$11.36	\$1,079.20
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	472	\$28.85	\$13,617.20
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	472	\$10.50	\$4,956.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	275	\$15.76	\$4,334.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	160	\$21.10	\$3,376.00
20	Curtain Drain Outlet Pipe	LF	75	\$11.52	\$864.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	11060	\$1.04	\$11,502.40
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	0	\$20.70	\$0.00
29			0	\$0.00	\$0.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$57,221.57
				ADD 10%	\$62,943.73

Matt Persons Over \$30,000:

Address: 445 Birch Creek Rd., Pine Hill, NY 12465

Town: Shandaken

Bedrooms: 3

Engineer: Rex Sanford P.E.

Contractor: Josh Construction

Sign In Date: 5/7/25

Design Application Received By DEP: 5/8/26

Design Application Deemed Complete: 7/8/26

Date Recommended for DEP Design Approval: 7/8/26

2-Year Deadline: 5/7/27

The major components will include a one siphon chamber, 93 l.f. of gravity pipe, 20 l.f. of sch. 80, one effluent filter, one distribution box, 735 c.y. of absorption fill material, 258 l.f. of absorption trench, 157 l.f. of curtain drain, 35 l.f. of curtain drain outlet pipe, 178 l.f. of access rd., and site restoration. The homeowner received three quotes. They were \$78,432.78, \$80,960.06 and \$81,596.63. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$78,432.78.

Cost Estimate

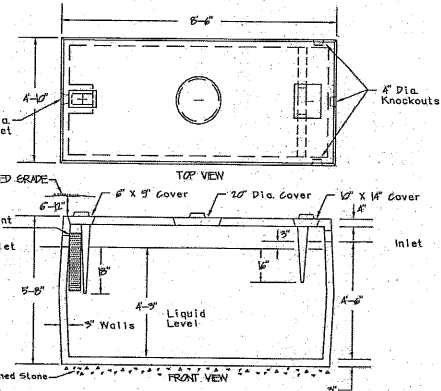
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Homeowner: Matthew Persons
SBL #: 1.3-1-26
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 6/2/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	0	\$4,917.79	\$0.00
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	1	\$4,837.05	\$4,837.05
4	Gravity Piping 4" PVC	LF	93	\$13.36	\$1,242.48
5	Sch 80	LF	20	\$21.71	\$434.20
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	735	\$28.85	\$21,204.75
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	735	\$21.00	\$15,435.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	topsoil haul	CY	180	\$15.75	\$2,835.00
12	Absorption Trench	LF	258	\$15.76	\$4,066.08
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	157	\$21.10	\$3,312.70
20	Curtain Drain Outlet Pipe	LF	35	\$11.52	\$403.20
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	12335	\$1.04	\$12,828.40
23	4" Clean Out	EA	0	\$185.00	\$0.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	178	\$20.70	\$3,684.60
29	pump existing tank		1	\$450.00	\$450.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$72,265.43
				ADD 10%	\$79,491.97



TYPICAL 1000 GALLON SEPTIC TANK
(NOT TO SCALE)

- SEPTIC TANK NOTES:**
1. TANK TO BE PRECAST REINFORCED CONCRETE - GRANVILLE OR ACCEPTED EQUAL. CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY SET AND SHALL HAVE THE CAPABILITY OF SUPPORTING 500 PSF.
 2. TANK TO BE REBED IN A 6" LAYER OF CRUSHED STONE.
 3. IT IS RECOMMENDED THAT PRIOR TO BACKFILL THE TANK SHOULD BE FILLED WITH WATER TO VERIFY THAT IT HAS BEEN ADEQUATELY SEALED, WATER-TIGHT, AND IS ACCEPTABLE FOR USE.
 4. ALL INLET AND OUTLET SHALL BE GRADED/SEALED TO BE WATER-TIGHT. IN ADDITION, REMAINING INLET HOLES SHALL BE PLUGGED AND/OR SEALED.
 5. AT THE REQUEST OF THE CATHART, WATER-SIDE CORROSION, A ZEPH, 18000 EFFLUENT FILTER OR AN ACCEPTED EQUAL SHALL BE INSTALLED AT THE OUTLET OF THE SEPTIC TANK. IN ADDITION, A WATER-TIGHT RISER SHALL BE PROVIDED TO GRAB TO ALLOW FOR PERIODIC CLEANING OF THE EFFLUENT LINE.
 6. SEPTIC TANKS SHALL BE INSTALLED NO DEEPER THAN 3 FEET BELOW THE FINAL GRADE. IF A DEEPER INSTALLATION IS UNAVOIDABLE, DOCUMENTATION FROM THE TANK MANUFACTURER IS REQUIRED TO VERIFY THAT THE TANK CAN HANDLE THE ADDITIONAL LOADING OR AN HIGH LOAD RATED SEPTIC TANK IS TO BE INSTALLED.

SEWAGE SYSTEM MAINTENANCE SCHEDULE

SEPTIC TANK - THE SEPTIC TANK SHOULD BE INSPECTED ANNUALLY. THE SEPTIC TANK SHOULD BE PUMPED OUT EVERY TWO TO THREE YEARS.

DISTRIBUTION - THE DISTRIBUTION BOX SHOULD BE INSPECTED ANNUALLY. THE DISTRIBUTION BOX SHOULD BE PUMPED OUT EVERY TWO TO THREE YEARS.

PLAN IS FOR ENGINEERING AND CONSTRUCTION PURPOSES ONLY.

CON = 300 GPD, BASED UPON 7 BEDROOMS @ 50 GPD/PERSON.

WATER TEST RESULTS - FLOW = 340 MIN @ 10" DEPTH.

PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

INTERVAL = 1 FEET TOPOGRAPHIC MAPS BY ON SITE FIELD SURVEY METHODS. CATHART ELEVATIONS AS SHOWN.

WATER TEST RESULTS - FLOW = 340 MIN @ 10" DEPTH.

PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

INTERVAL = 1 FEET TOPOGRAPHIC MAPS BY ON SITE FIELD SURVEY METHODS. CATHART ELEVATIONS AS SHOWN.

WATER TEST RESULTS - FLOW = 340 MIN @ 10" DEPTH.

PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

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PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

INTERVAL = 1 FEET TOPOGRAPHIC MAPS BY ON SITE FIELD SURVEY METHODS. CATHART ELEVATIONS AS SHOWN.

WATER TEST RESULTS - FLOW = 340 MIN @ 10" DEPTH.

PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

INTERVAL = 1 FEET TOPOGRAPHIC MAPS BY ON SITE FIELD SURVEY METHODS. CATHART ELEVATIONS AS SHOWN.

WATER TEST RESULTS - FLOW = 340 MIN @ 10" DEPTH.

PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

INTERVAL = 1 FEET TOPOGRAPHIC MAPS BY ON SITE FIELD SURVEY METHODS. CATHART ELEVATIONS AS SHOWN.

WATER TEST RESULTS - FLOW = 340 MIN @ 10" DEPTH.

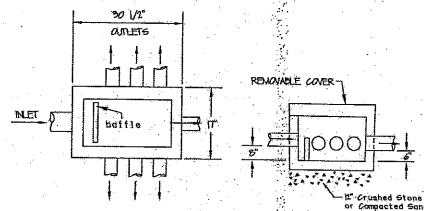
PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

INTERVAL = 1 FEET TOPOGRAPHIC MAPS BY ON SITE FIELD SURVEY METHODS. CATHART ELEVATIONS AS SHOWN.

WATER TEST RESULTS - FLOW = 340 MIN @ 10" DEPTH.

PERFORMANCE - TOWN OF SHANDAKEN - SECTION 15, BLOCK 1, LOT 16.

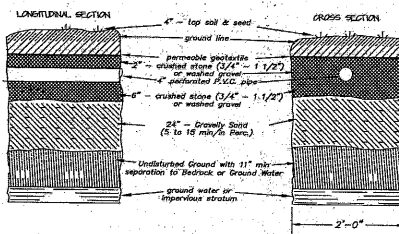
INTERVAL = 1 FEET TOPOGRAPHIC MAPS BY ON SITE FIELD SURVEY METHODS. CATHART ELEVATIONS AS SHOWN.



TYPICAL 8 HOLE DISTRIBUTION BOX
(NOT TO SCALE)

DISTRIBUTION BOX NOTES:

1. DISTRIBUTION BOX SHOULD BE PROVIDED WITH FLOW LEVELERS TO PROVIDE EQUAL DISTRIBUTION OF EFFLUENT TO THE LATERALS.
2. D-BOX TO BE REBED IN A 6" LAYER OF CRUSHED STONE OR COMPACTED SAND.
3. DISTRIBUTION BOX SHALL BE CONSTRUCTED OF PRECAST CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY SET.
4. ALL OUTLETS SHALL BE MADE WATER-TIGHT. THIS INCLUDES ANY UNUSED OUTLET HOLES.
5. HEADER PIPES LEADING FROM D-BOX TO BE CONSTRUCTED OF SOLID PIPE.
6. THE SOLID HEADER PIPES LEADING FROM THE D-BOX SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.

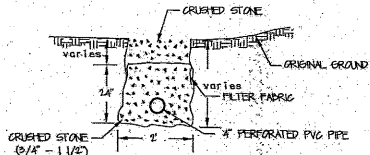


RAISED SYSTEM TRENCH DESIGN
(NOT TO SCALE)

NOTE: Total depth of gravelly sand fill to be 4" minimum above original ground line after compaction.

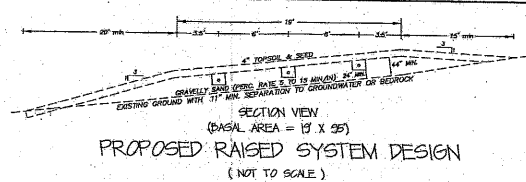
TEST PIT INFORMATION

TP. #	DESCRIPTION
1	0'-1" TOPSOIL 2'-11" GRAVELLY SILT LOAM (COMPACT) 11'-3" HARDPAN NO MOTTLING OBSERVED NO WATER OBSERVED NO BEDROCK OBSERVED



TYPICAL CURTAIN DRAIN
(NOT TO SCALE)

NOTE: The curtain drain shall be dug a minimum of 30" in depth.

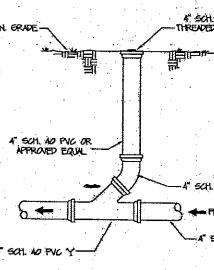
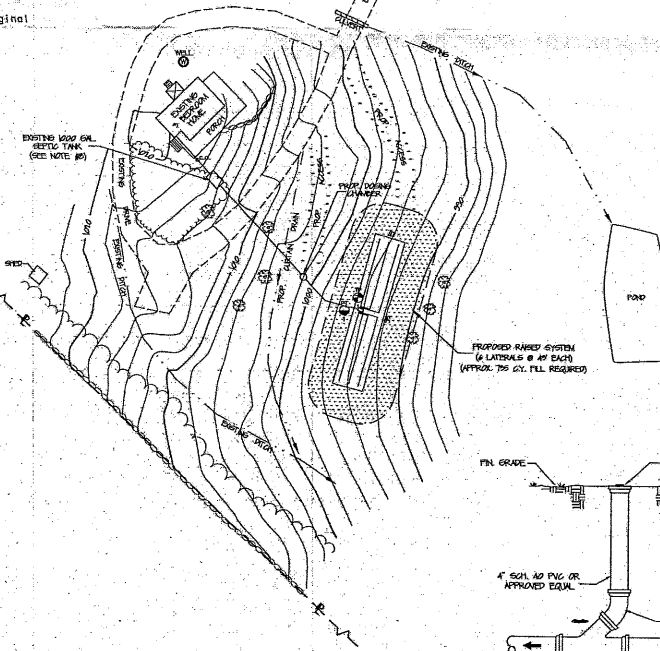


PROPOSED RAISED SYSTEM DESIGN
(NOT TO SCALE)

RAISED SYSTEM NOTES:

1. Percolation tests are to be conducted in the fill material at the borrow pit and after placement and compaction at the construction site.
2. The edges of the fill shall be tapered at a slope of no greater than 1:1 and blended to the original ground line to encourage proper drainage away from the raised system.
3. The entire surface of the system including topers shall be covered with a minimum of 4" of topsoil, mounded to enhance the runoff of rainwater from the system and seeded to grass.
4. Heavy construction equipment shall be kept out of the system area.
5. The surface of the underlying soil shall be plowed with a double bottom blade/turrow plow and the turrow turned upslope.
6. A minimum of 4" of gravelly sand fill shall be placed above the existing ground line.
7. The gravelly sand fill material shall be placed in 6" lifts and mechanically compacted by a bulldozer under the supervision of the design engineer. Special care is to be used when compacting to avoid creating layers of different density. The tracks of the bulldozer shall be kept clean of gravelly sand, weeds and leaves.
8. The system construction is to be supervised, inspected and certified by the design engineer. Includes septic tank, absorption trenches, fill material, percolation tests, curtain drain, topsoiling, seed and mulch.
9. The top of the fill shall be keyed into the original ground, particularly on the lower edges of the raised system.

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS
APPROVED
SUBJECT TO SPECIFIED CONDITIONS IN
DETERMINATION DATED: 7/18/02
TO: 10/10/02
BY: [Signature]
APPROVED BY: [Signature]
APPROVAL EXPIRATION DATE: 7/18/05
UNLESS CONSTRUCTION IS COMPLETED.

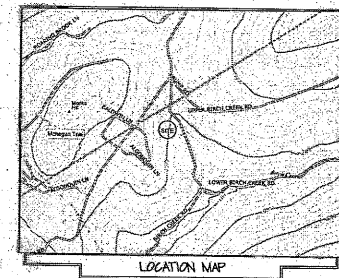


TYPICAL CLEAN-OUT DETAIL
(NOT TO SCALE)

TYPICAL FLOATING OUTLET DOSING CHAIN
135 GALLON DOSE
(NOT TO SCALE)

DOSE CHAIN NOTES:

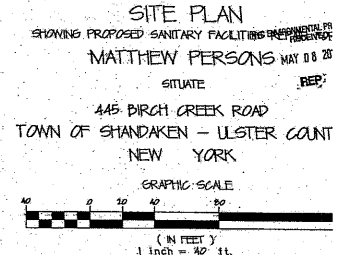
1. TANK TO BE 40" INSIDE DIAMETER PRECAST REINFORCED CONCRETE - MINIMUM 3500 PSI MINIMUM AT 28 DAY SET.
2. TANK TO BE REBED IN A 6" LAYER OF CRUSHED STONE.
3. FLOATING OUTLET DOSE TO BE MADE NO DEEPER THAN 3 FEET.
4. INLET & OUTLET SHALL BE GRADED/SEALED TO BE WATER-TIGHT.



SANITARY ENGINEERING DETAIL NOT

1. THE PERFORATED PIPE LATERALS ARE TO BE INSTALLED AS LEVEL AS POSSIBLE.
2. A DISTRIBUTION BOX SHALL BE USED WITH 10' DIA. PIPES PERFORATED FROM THE BOX TO THE PERFORATED PIPE LINES.
3. WATERSHED OR BROKEN STONE 3/4" TO 1 1/2" SHALL BE PLACED BELOW THE PERFORATED PIPE AROUND THE PIPE AND 4" ABOVE THE PIPE.
4. NO ROOTS, LIMBS OR ROOTING DRAINS SHALL BE DISCHARGED INTO OR IN THE PROXIMITY OF THE REMOTE DISPOSAL SYSTEM.
5. ALL TREES & SHRUBS SHALL BE CUT TO GRADE AND REMOVED FROM THE REMOTE DISPOSAL AREA. ROOTS REMAINING BELOW GRADE SHOULD NOT BE REMOVED, SO AS TO LIMIT THE PERFORMANCE OF THE UNDERLYING SOILS.
6. NO DRIVWAYS, ROADS OR PARKING AREAS SHALL BE CONSTRUCTED OVER ANY PORTION OF THE REMOTE DISPOSAL SYSTEM.
7. SEPTIC TANKS SHALL BE REBED WITH 6" OF CRUSHED STONE. DISTRIBUTION BOXES SHALL BE REBED WITH 12" OF CRUSHED STONE.
8. CONCRETE SEPTIC TANKS TO BE USED. TANKS SHALL BE WATER-TIGHT. CONCRETE SHALL BE 4000 PSI WITH MINIMUM 4000 PSI TO INSURE WATER-TIGHTNESS. TANKS ARE TO BE LOCATED A MINIMUM OF 10' FROM THE HOUSE FOUNDATION.
9. LATERALS ARE TO BE PLACED 6" ON CENTER AND THE TRENCH ARE TO BE COVERED. TRENCH WIDTH = 2' (OPENING BOTTOM TO BE LINED).
10. ALL REMOTE SYSTEMS SHALL BE APPROVED AND INSPECTED BY THE ENGINEER.
11. ALL SEPTIC SYSTEMS MUST BE LOCATED SHOWN ON THIS SITE PLAN. INSTALLATION AND MAINTENANCE OF SEPTIC SYSTEMS FOLLOW THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S "INDIVIDUAL HOUSEHOLD SYSTEMS" APPENDIX AS APPLICABLE.
12. THE SEWER LINE FROM THE SEPTIC TANK DOSE CHAIN SHALL BE TO BE 4" SQUARE PLACED AT A SLOPE OF 1/8" PER FT. MIN.
13. THE SEWER LINE FROM THE DOSE CHAIN TO THE DISTRIBUTION BOX IS TO BE 4" SQUARE PLACED AT A SLOPE OF 1/8" PER FT. MIN.
14. THE SEWER LINE FROM THE DOSE CHAIN TO THE DISTRIBUTION BOX IS TO BE 4" SQUARE PLACED AT A SLOPE OF 1/8" PER FT. MIN.
15. THE LINE OF PERFORABLE GEOTEXTILE OR ABSORPTION TECHNIQUE IS REQUIRED.
16. NO COMPONENT PART OF ANY REMOTE SYSTEM SHALL BE LOCATED OR MAINTAINED WITHIN ANY BODY OF WATER.
17. SEPTIC TANK & DOSE CHAIN SHALL BE WITH A WATER-TIGHT COVER TO BE COVERED WITH 30" DIA. STEEL PLATE AND A PLATE COVER OR PRECAST REINFORCED CONCRETE COVER. (TANK COVER IS TO REMAIN IN PLACE).
18. THE INSTALLATION OF SPEED BREAKERS OR DISTRIBUTION BOX IS REQUIRED TO BE DISTRIBUTION OF EFFLUENT TO THE LATE SEWER LINES CROSSING UNDER REMOTE RE-USE OF PVS DRAINAGE IN SAND.

A WARNING IN THIS PLAN BY ANY PERSON OTHER THAN A DESIGN ENGINEER LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 2206-A OF THE NEW YORK STATE ENGINEERING LAW. ANY ATTEMPT TO VIOLATE THIS LAW IS A VIOLATION OF THE NEW YORK STATE ENGINEERING LAW. ANY ATTEMPT TO VIOLATE THIS LAW IS A VIOLATION OF THE NEW YORK STATE ENGINEERING LAW.



PREPARED BY:
REX SANFORD, P.E.
PROFESSIONAL ENGINEERING SERVICES
P.O. BOX 91
SHOKAN, NY 12151
(518) 487-6416

STATE OF NEW YORK
JULY 1, 2015
RECEIVED
REX SANFORD, P.E.
PROFESSIONAL ENGINEER

Alexandra Rosenberg Over \$30,000:

Address: 420 Old Winter Hollow Rd., New Kingston, NY 12459

Town: Middletown

Bedrooms: 2

Engineer: Rex Sanford P.E.

Contractor: Maduri Excavating

Sign In Date: 4/17/25

Design Application Received By DEP: 3/17/26

Design Application Deemed Complete: 3/24/26

Date Recommended for DEP Design Approval: 4/10/26

2-Year Deadline: 4/17/27

The major components will include a 1,000-gallon septic tank, 25 l.f. of gravity pipe, one distribution box, 8 c.y. of absorption fill material, 150 l.f. of Presby pipe, 55 c.y. of C-33 sand, 56 l.f. of vent pipe, 65 l.f. of access rd., 2 trees to be removed, spread & reclaim excess material, modify interior plumbing, 15 l.f. of sch 80 vent pipe, and site restoration. The homeowner received a quote for \$31,897.29. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$31,897.29.

Cost Estimate

Homeowner: Alexandra Rosenberg
 SBL #: 219-1-2
 Designer: Rex Sanford
 Completed By: Mitch Hull
 Date: 3/19/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	25	\$13.36	\$334.00
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	8	\$28.85	\$230.80
8	stop topsoil haul	CY	46	\$21.00	\$966.00
9	1 Hr. Haul Time	CY	109	\$21.00	\$2,289.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	150	\$30.77	\$4,615.50
18	NYSDOT C-33 Sand (Presby)	CY	55	\$48.23	\$2,652.65
19	Vent Pipe	LF	56	\$11.52	\$645.12
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	3150	\$1.04	\$3,276.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	1	\$98.00	\$98.00
27	Access Road	LF	65	\$20.70	\$1,345.50
29	2 trees to be removed		1	\$1,500.00	\$1,500.00
30	spread & reclaim		1	\$1,450.00	\$1,450.00
31	modify interior plumbing		1	\$3,950.00	\$3,950.00
32	sch 80 vent pipe		15	\$21.71	\$325.65
33			0	\$0.00	\$0.00
				TOTAL	\$30,128.98
				ADD 10%	\$33,141.88

George Spilke Over \$30,000:

Address: 3853 Route 28A, West Shokan, NY 12494

Town: Olive

Bedrooms: 3

Engineer: Rex Sanford P.E.

Contractor: Chad Davis Contracting

Sign In Date: 9/14/25

Design Application Received By DEP: 5/8/26

Design Application Deemed Complete: 7/6/26

Date Recommended for DEP Design Approval: 7/6/26

2-Year Deadline: 9/14/27

The major components will include a 1,000-gallon septic tank, 70 l.f. of gravity pipe, one effluent filter, one distribution box, 215 c.y. of absorption fill material, 250 l.f. of absorption trench, 145 l.f. of curtain drain, 55 l.f. of curtain drain outlet pipe, 73 l.f. of access rd., 19 trees to be removed, and site restoration. The homeowner received three quotes. They were \$55,575.92, \$57,030.89 and \$58,702.39. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$55,575.92.

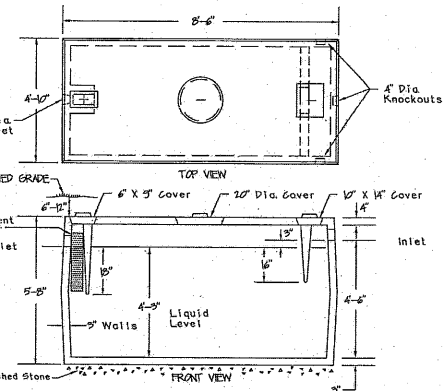
Cost Estimate

Homeowner: George Spilke
SBL #: 45.1-4-24
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 6/2/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	70	\$13.36	\$935.20
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	215	\$28.85	\$6,202.75
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	215	\$15.75	\$3,386.25
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Haul time topsoil & stone	SF	142	\$15.75	\$2,236.40
12	Absorption Trench	LF	250	\$15.76	\$3,940.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	145	\$21.10	\$3,059.50
20	Curtain Drain Outlet Pipe	LF	55	\$11.52	\$633.60
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	8300	\$1.04	\$8,632.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	1	\$98.00	\$98.00
27	Access Road	LF	73	\$20.70	\$1,511.10
29	19 trees to be removed		1	\$14,000.00	\$14,000.00
30			0	\$0.00	\$0.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$51,085.66
				ADD 10%	\$56,194.23



TYPICAL 1000 GALLON SEPTIC TANK
(NOT TO SCALE)

- SEPTIC TANK NOTES:**
1. TANK TO BE PRECAST REINFORCED CONCRETE - GRANVILLE OR ACCEPTED EQUAL CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY SET AND SHALL HAVE THE CAPABILITY OF SUPPORTING 250 PSF.
 2. TANK TO BE SITED IN A 4" LAYER OF CRUSHED STONE.
 3. IT IS RECOMMENDED THAT PRIOR TO BACKFILL, THE TANK SHOULD BE FILLED WITH WATER TO VERIFY THAT IT HAS BEEN ADEQUATELY SEALED, WATER-TIGHT, AND IS ACCEPTABLE FOR USE.
 4. INLET & OUTLET SHALL BE GRADED/SEALED TO BE WATER-TIGHT. IN ADDITION, REMAINING INLET VALVES SHALL BE PLUGGED AND/OR SEALED.
 5. AT THE REQUEST OF THE CATAWBA WATERSHED CORPORATION, A 2000 GPM EFFLUENT FILTER OR AN ACCEPTED EQUAL SHALL BE INSTALLED AT THE OUTLET OF THE SEPTIC TANK. IN ADDITION, A WATER-TIGHT RISER SHALL BE PROVIDED TO GRADE TO ALLOW FOR PERIODIC CLEANING OF THE EFFLUENT FILTER.
 6. SEPTIC TANKS SHALL BE INSTALLED NO DEEPER THAN 1 FEET BELOW THE FINAL GRADE. IF A DEEPER INSTALLATION IS UNAVOIDABLE, DOCUMENTATION FROM THE TANK MANUFACTURER IS REQUIRED TO VERIFY THAT THE TANK CAN HANDLE THE ADDITIONAL LOADING OR AN 1800 GPM RATED SEPTIC TANK IS TO BE INSTALLED.

SEWAGE SYSTEM MAINTENANCE SCHEDULE

SEPTIC TANK - THE SEPTIC TANK SHOULD BE INSPECTED ANNUALLY. THE SEPTIC TANK SHOULD BE PUMPED OUT EVERY TWO TO THREE YEARS.
DISTRIBUTION BOX - THE DISTRIBUTION BOX SHOULD BE INSPECTED PERIODICALLY TO CHECK THAT EACH PIPE IS RECEIVING EQUAL FLOW. SPEED LEVELING SHOULD BE ADJUSTED AS NECESSARY.

SITE PLAN IS FOR ENGINEERING AND CONSTRUCTION PURPOSES ONLY.

IN PLAN = 250 EPS, BASED UPON 5 BEDROOMS & 100 EPS/DECK/ROOM.

LOCATION TEST RESULTS - HOLE #1 - A MINIMUM OF 3 FEET.

REF. REFERENCE: TOWN OF OLIVE - SECTION 60, BLOCK 4, LOT 24.

VERT. INTERVAL = 2 FEET, TOPOGRAPHIC MAPS BY AN SITE FIELD SURVEY METHOD. CONTOUR ELEVATIONS AS SHOWN ARE (NO REFERENCE TO LEGAL DATA).

PROPERTY LINES AS SHOWN ARE APPROXIMATE. NO CERTIFICATION IS MADE OR IMPLIED AS TO THEIR ACCURACY.

ADJACENT SOLS SHALL BE SEEDS AND MULCHED AS QUICKLY AS POSSIBLE TO REDUCE THE RISK OF EROSION. THE OWNER IS RESPONSIBLE TO RE-SEED ANY AREAS WHICH DID NOT TAKE AS A RESULT OF WEATHER CONDITIONS.

LOCATIONS OF THE EXISTING SEPTIC TANK AND SEWER LINE DISCHARGE POINT ARE APPROXIMATE, AND SHALL BE VERIFIED BY CONTRACTOR AT THE TIME OF CONSTRUCTION.

EXISTING SEPTIC TANK SHALL BE PUMPED OUT, FILLED WITH RUN OF DARK GRAVEL, AND ABANDONED (REMOVED AS NECESSARY) LINES LEADING FROM THE EXISTING SEPTIC TANK SHALL BE DISCONNECTED AND ABANDONED.

UNLESS SITE CONDITION WHICH WAS NOT DISCOVERED AS A RESULT OF THE ORIGINAL SITE INSPECTION & SOIL TESTING, BE RESPONSIBLE TO THE EXTENSION OF THE DESIGN ENGINEER AND THE INSPECTOR. ANY DESIGN CHANGES OR MODIFICATIONS ARE APPROVED BY THE DESIGN ENGINEER AND THE INSPECTOR.

THE PRINCIPAL FUNCTION OF THE PROPOSED SHALLOW ABSORPTION TRENCH SYSTEM AND SEPTIC TANK, THE OWNER SHALL BE THE MAINTENANCE SCHEDULE SHOWN.

SHALLOW ABSORPTION TRENCH SYSTEM INSTALLATION SHALL BE INSPECTED AND CERTIFIED BY THE DESIGN ENGINEER. GRADING SHALL BE IN A MANNER WHICH DIRECTS STORMWATER AWAY FROM THE HOUSE AND THE SEWAGE SYSTEM.

INSTALLATION OF LOW FLOW PLUMBING FIXTURES IS RECOMMENDED: 0.5 GPM FLUSH TOILETS & 5.0 GPM FLUSH FIXTURES.

TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES, INCLUDING GAS, TELEPHONE, ELECTRIC, WATER LINES, ETC.

TEST PITS AND RESURFACING TESTS CONDUCTED MAY VARY.

DESIGN ENGINEER RESERVES THE RIGHT TO MODIFY THIS DESIGN IF THE SITE CONDITIONS VARY FROM THAT OF THE ORIGINAL INSPECTION. (DESIGN MODIFICATION SUBJECT TO INSPECTOR APPROVAL).

SOIL SORTERS SHOULD NOT BE DISCHARGED INTO THE PROPOSED SEWAGE SYSTEM AS THEY MAY HYDRAULICALLY OVERLOAD THE SYSTEM. THE INSTALLATION OF HOT TUBS AND SPAS MAY ALSO CAUSE HYDRAULIC OVERLOADING.

USE OF SEPTIC TANK ADDITIVES IS NOT RECOMMENDED. ADDITIVES ARE NOT NECESSARY FOR THE PROPER FUNCTION OF A SEPTIC TANK. OVERUSE OF ADDITIVES MAY CAUSE SLUDGE & SOLS TO MIGRATE FROM THE SEPTIC TANK AND INTO THE ABSORPTION TRENCH WHICH WILL RESULT IN A PREMATURE FAILURE.

CONSTRUCTION EQUIPMENT SHALL BE KEPT OFF THE SEPTIC AREA TO THE FURTHEST EXTENT POSSIBLE. FAILURE TO KEEP EQUIPMENT OFF THE SEPTIC AREA MAY CAUSE COMPACTING OF THE SOIL AND COMPROMISE THE SEWAGE SYSTEMS ABILITY TO TREAT THE WASTEWATER FLOW INDICATED. A CONSTRUCTION APPROVAL AND/OR CERTIFICATION MAY BE REQUIRED IF THIS OCCURS.

SANITARY FACILITIES DESIGN SHOWN HEREON DOES NOT CONFORM TO ALL OF THE REQUIREMENTS OF FEDERAL ZONING ACT. THE DESIGN WAS DETERMINED TO BE THE BEST PRACTICE SOLUTION GIVEN THE LIMITED SPACE AND SOIL TESTS AVAILABLE.

LOCATION OF THE PROPOSED SEWAGE SYSTEM SHALL NOT BE ATTEMPTED WHEN THE SITE SOILS HAVE A HIGH MOISTURE CONTENT. CONSTRUCTION DURING WET PERIODS CAN COMPROMISE THE SITE SOILS AND MAY LEAD TO PREMATURE FAILURE!

ADDITIONAL NOTES: THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES, INCLUDING GAS, TELEPHONE, ELECTRIC, WATER LINES, ETC.

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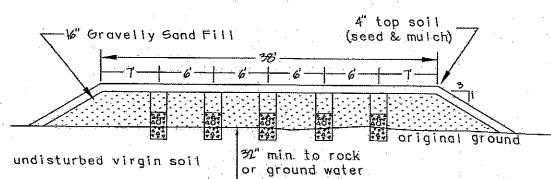
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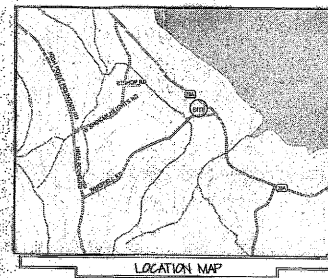
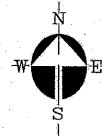


* Note: Trenches to extend no more than 4' into original ground

SHALLOW ABSORPTION TRENCH SYSTEM

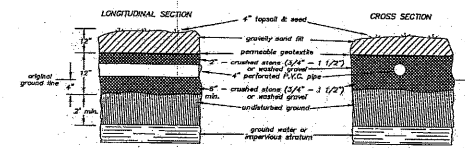
(SECTION VIEW)

(NOT TO SCALE)



TEST PIT INFORMATION

TP. #	DESCRIPTION
1	0'-4" TOPSOIL 4'-24" GRAVELLY SILT LOAM 24"-52" FRAGFAN MOTTLED OBSERVED @ 24" NO WATER OBSERVED NO BEDROCK OBSERVED
2	0'-5" TOPSOIL 5'-24" GRAVELLY SILT LOAM 24"-47" FRAGFAN MOTTLED OBSERVED @ 32" NO WATER OBSERVED NO BEDROCK OBSERVED

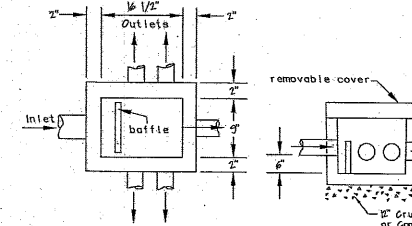


SHALLOW ABSORPTION TRENCH DESIGN

(NOT TO SCALE)

SHALLOW ABSORPTION TRENCH NOTES

1. 16" gravelly sand fill with a percolation rate of 2 to 5 min/in must be placed in the proposed absorption trench area prior to construction of the sewage system.
2. Gravelly sand fill shall extend a minimum of 7' beyond the trenches in all directions to the original ground at a 2% slope.
3. Shallow absorption trenches are to extend no more than 4' into the original ground.



TYPICAL 6 HOLE DISTRIBUTION BOX

(NOT TO SCALE)

DISTRIBUTION BOX NOTES:

1. DISTRIBUTION BOX SHOULD BE PROVIDED WITH FLOW LEVELERS TO PROVIDE EQUAL DISTRIBUTION OF EFFLUENT TO THE LATERALS.
2. D-BOX TO BE DESIGNED IN A 12" LAYER OF CRUSHED STONE OR COMPACTED SAND.
3. DISTRIBUTION BOX SHALL BE CONSTRUCTED OF PRECAST CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY SET.
4. ALL OUTLETS SHALL BE MADE WATER-TIGHT. THIS INCLUDES ANY UNLINED OUTLET VALVES.
5. HANGER PIPES LEADING FROM D-BOX TO BE CONSTRUCTED OF SOLID PIPE.
6. THE SOLID HANGER PIPES LEADING FROM THE D-BOX SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FEET.

SANITARY ENGINEERING DETAIL NOTE

1. PERFORATED PIPE SHALL BE PLACED WITH A MINIMUM SLOPE OF 1/8" PER FOOT.
2. A DISTRIBUTION BOX SHALL BE USED WITH TIGHT JOINTS. THE DISTRIBUTION FROM THE BOX TO THE PERFORATED PIPE LINES.
3. WASHED GRAVEL OR CRUSHED STONE, 3/4" TO 1 1/2", SHALL BE PLACED AROUND THE PERFORATED PIPE AROUND THE PIPE AND 2" ABOVE THE PIPE.
4. NO ROOTS, CELLAR OR FOOTING DRAINS SHALL BE DISCHARGED INTO OR IN THE DIRECTION OF THE SEWAGE DISPOSAL SYSTEM.
5. ALL TREES & SHRUBS SHALL BE CUT TO GRADE AND REMOVED FROM THE SEWAGE SYSTEM AREA. ROOTS REMAINING BELOW GRADE SHOULD NOT BE REMOVED, SO AS TO LIMIT THE PERFORMANCE OF THE SEWAGE DISPOSAL SYSTEM.
6. NO CONCRETE, BRICK OR PAVING AREAS SHALL BE CONSTRUCTED OVER ANY PORTION OF THE SEWAGE DISPOSAL SYSTEM.
7. SEPTIC TANKS SHALL BE DESIGNED WITH 4" OF CRUSHED STONE. DISTRIBUTION PIPES SHALL BE DESIGNED WITH 12" OF CRUSHED STONE.
8. CONCRETE SEPTIC TANKS TO BE USED. TANKS SHALL BE WATER-TIGHT. CONTRACTOR SHALL SEAL TANK WITH HYDRAULIC CEMENT TO ELIMINATE WATER LEAKAGE INTO OR OUT OF TANK.
9. LATERALS ARE TO BE PLACED 4" ON CENTER AND THE ENDS ARE TO BE CAPPED. TRENCH WITH A 2% SLOPE. NOTE: THE BOTTOM OF THE TRENCHES SHALL BE LEVEL. IN ADDITION, THE BOTTOM & SIDE OF TRENCHES SHALL BE BARRICADED.
10. ALL SEWAGE SYSTEMS SHALL BE DESIGNED TO HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.
11. ALL PIPE PASSING UNDER DRIVEWAYS, DRIVEWAYS, OR OTHER STRUCTURES SHALL BE PROTECTED BY A MINIMUM OF 12" OF SAND/COMPACTED SAND.
12. ALL SEPTIC SYSTEMS MUST BE LOCATED ON THIS SITE PLAN. INSTALL AND MAINTAINANCE OF SEPTIC SYSTEM SHALL FOLLOW THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, SEPTIC SYSTEMS, 6th EDITION, AS AMENDED.
13. THE REMOVAL OF SEPTIC TANKS SHALL BE THE RESPONSIBILITY OF THE OWNER. THE SEPTIC TANK SHALL BE REMOVED AND PLACED AT A 2% MINIMUM.
14. THE REMOVAL OF SEPTIC TANKS SHALL BE THE RESPONSIBILITY OF THE OWNER. THE SEPTIC TANK SHALL BE REMOVED AND PLACED AT A 2% MINIMUM.
15. THE USE OF PERMEABLE EXISTING SHALLOW ABSORPTION TRENCHES IS NOT ALLOWED.
16. NO COMPONENT PART OF ANY SEW SYSTEM SHALL BE LOCATED OR IN ANY MANNER BE A HAZARD TO ANY ADJACENT PROPERTY OR ANY BODY OF WATER.
17. SEPTIC TANK TO BE PROVIDED WITH RISK TO GRADE. RISER IS TO BE WITH 4" OF 30" DIA. PIPE. ALL 30" DIA. RISER, PLATE AND A PLAT RAIL TANK LIDS ARE TO REMAIN IN PLACE.
18. THE INSTALLATION OF SPEED LEVEL DISTRIBUTION BOX IS REQUIRED TO THE DISTRIBUTION OF EFFLUENT TO THE

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

SUBJECT TO SPECIFIC CONDITIONS IN DETERMINATION OF THE

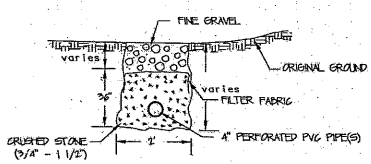
TO: Spike

DATE: 7/16/16

APPROVED BY: Spike

APPROVAL EXPIRATION DATE: 7/16/17

UNLESS CONSTRUCTION IS COMPLETED.



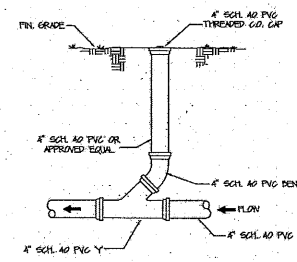
TYPICAL CURTAIN DRAIN

(NOT TO SCALE)

NOTE: The curtain drain shall be dug a minimum of 40" in depth. A second 4" pipe shall be provided to accommodate flow from the roof drain.

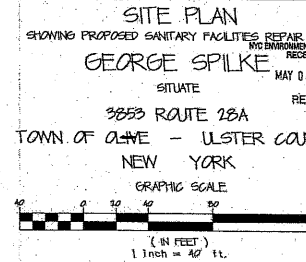
TREES TO BE REMOVED FOR CONSTRUCTION

QUANTITY	SIZE RANGE	TREE SPECIES
3	8"-10"	HENLOCK
1	10"-16"	PINE
1	24"	PINE
4	10"-16"	MAPLE
5	18"-24"	MAPLE
1	30"	MAPLE
3	30"-36"	OAK



TYPICAL CLEAN-OUT DETAIL

(NOT TO SCALE)



PREPARED BY:
REX SANFORD, P.E.
PROFESSIONAL ENGINEERING SERVICES
P.O. BOX 51
SHARON, NY 14489
(609) 691-4468

STATE OF NEW YORK
RECEIVED
JUL 16 2016
PROFESSIONAL ENGINEER

ATTENTION: THIS PLAN IS FOR PERSON OTHER THAN A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER. IT IS A VIOLATION OF SECTION 2204-A OF THE NEW YORK STATE EDUCATION LAW. ANY ALTERATIONS OF THIS PLAN BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL BE NOTED AND DATED AND BE ACCOMPANIED BY THE SIGNATURE OF SUCH PROFESSIONAL ENGINEER.

Diana Tsingopoulos Over \$30,000:

Address: 1539 Wittenberg Rd., Mt. Tremper, NY 12457

Town: Shandaken

Bedrooms: 2

Engineer: Rex Sanford P.E.

Contractor: Sam I Am Excavation and Tree Service

Sign In Date: 5/8/26

Design Application Received By DEP: 5/27/26

Design Application Deemed Complete: 6/30/26

Date Recommended for DEP Design Approval: 6/30/26

2-Year Deadline: 5/8/28

The major components will include a 1,000 gallon septic tank, 56 l.f. of gravity pipe, one effluent filter, one distribution box, 450 s.f. of absorption bed, 240 l.f of access rd., 8 trees to be removed, set tank with a large excavator, spread & reclaim excess fill material, and site restoration. The homeowner received a quote for \$33,836.37. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$33,836.37.

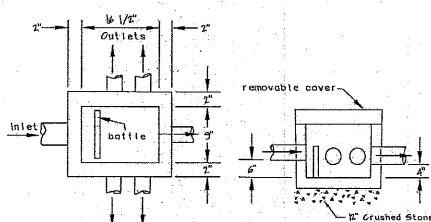
Cost Estimate

Homeowner: Diana Tsingopoulos
SBL #: 25.10-3-26
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 7/13/2026

2026 Schedule of Values

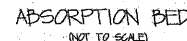
Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	56	\$13.36	\$748.16
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	0	\$28.85	\$0.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time topsoil stone	CY	80	\$10.50	\$840.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	450	\$6.25	\$2,812.50
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	1800	\$1.04	\$1,872.00
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	2	\$184.00	\$368.00
26	Additional Riser Section	EA	1	\$98.00	\$98.00
27	Access Road	LF	240	\$20.70	\$4,968.00
29	spread & reclaim Excess material		1	\$1,450.00	\$1,450.00
30	8 trees to be removed		1	\$9,625.00	\$9,625.00
31	set tank with large excavator		1	\$1,500.00	\$1,500.00
32	remove fence		1	\$500.00	\$500.00
33	remove patio		1	\$450.00	\$450.00
				TOTAL	\$31,314.42
				ADD 10%	\$34,445.86



DISTRIBUTION BOX NOTES:

1. DISTRIBUTION BOX SHALL BE PROVIDED WITH FLOW INDICATORS TO PROVIDE VISUAL INDICATION OF FLOW DIRECTION TO THE LATERALS.
2. D-BOX TO BE BEDDED IN A 1" LAYER OF CRUSHED STONE OR COMPACTED SAND.
3. DISTRIBUTION BOX SHALL BE CONSTRUCTED OF FRESH CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
4. ALL OUTLETS SHALL BE MADE WATER-TIGHT. THIS INCLUDES ANY UNUSED OUTLET HOLES.
5. HEADER PIPES LEAVING FROM D-BOX TO BE CONSTRUCTED OF SOLID PIPE.
6. THE SOLID HEADER PIPES LEAVING FROM THE D-BOX SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.

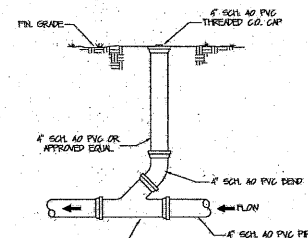


ABSORPTION AND NOTES

- 1) The required bed bottom area is to be excavated on level or practical. In addition, the bottom and sides of the excavation are to be hand raked to reduce soil smearing.
 ** The bed shall be excavated to a maximum depth of 30 inches **
- 2) After excavation, a 6" layer of No. 2 crushed stone is placed across the bottom of the bed.
- 3) Perforated pipe shall be placed level on the stone and covered with crushed stone to a level of 4" above the top of the pipe.
- 4) The entire bed area shall be covered with permeable geotextile, prior to placement of backfill. The permeable geotextile shall extend down the sides of the excavation to discourage intrusion by tree roots. Roots shall be cut back to edge of excavation prior to placement of geotextile.
- 5) The entire surface of the bed area shall be covered with 4" of topsoil, seeded & mulched.
- 6) Excavation of the absorption beds shall be with an excavator.
- 7) The use of 4" or 5" perforated pipe is required for the perforated pipe lines.
- 8) The system construction is to be supervised, inspected and certified by the design engineer. Includes the septic tank, absorption bed, drainage, topsoiling, seeding & mulching.

SEWAGE SYSTEM MAINTENANCE SCHEDULE	
SEPTIC TANK -	THE SEPTIC TANK SHOULD BE INSPECTED ANNUALLY. THE SEPTIC TANK SHOULD BE PUMPED OUT EVERY TWO TO THREE YEARS.
DISTRIBUTION BOX	THE DISTRIBUTION BOX SHOULD BE INSPECTED PERIODICALLY TO CHECK THAT EACH PIPE IS RECEIVING EQUAL FLOW. SPLIT LEVELERS SHOULD BE ADJUSTED AS NECESSARY.

TREES TO BE REMOVED FOR CONSTRUCTION		
QUANTITY	SIZE RANGE	TREE SPECIES
2	6"-12"	SPRUCE
1	8"	BIRCH
2	12"	MAPLE
3	20"	PINE

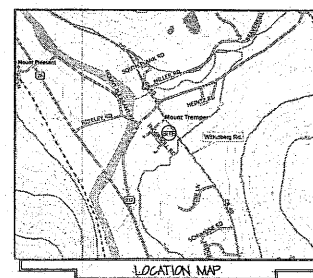


TYPICAL CLEAN-OUT DETAIL
(NOT TO SCALE)

CITY OF NEW YORK
DEPT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS
APPROVED
SUBJECT TO SPECIFIED CONDITIONS IN
DETERMINATION DATE: 6/30/76
TO: Tsigopoulos
S/B/L:
(1)
APPROVED BY: [Signature]
APPROVAL EXPIRATION DATE: 6/30/78
UNLESS CONSTRUCTION IS COMPLETED

1	05/14/2014	SITE PLAN PREPARATION	RES
NO.	DATE	DESCRIPTION	BY

ALTERATION OF THIS PLAN BY ANY PERSON OTHER THAN A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7202-2 OF THE NEW YORK STATE EDUCATION LAWS. ANY ALTERATIONS OF THIS PLAN BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL BE SO NOTED AND DATED AND BE ACCOMPANIED BY THE SIGNATURE OF THE ENGINEER.

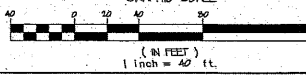


SANITARY ENGINEERING DETAIL NOTES

- [illegible]

SITE PLAN

SHOWING PROPOSED SANITARY FACILITIES REPAIR DESIGN
DIANA TSINGAPOULOS
SITUATE
1599 WITTENBERG ROAD
TOWN OF SHANDAKEN - ULSTER COUNTY
NEW YORK
GRAPHIC SCALE



THIS PLAN IS FOR ENGINEERING AND CONSTRUCTION PURPOSES ONLY.

PLAN SCALE = 3/32" = 1'00', BASED UPON 2 BEDROOMS @ 150 GPD/PERSON.

INfiltration TEST RESULTS - 1042 L/HR @ 3" MIN/IN (PERC. HOLE DEPTH = 30")

MAP REFERENCE: TOWN OF SHAWNEEN - SECTION 3510, BLOCK 3, LOT 14

VERTICAL INTERVAL = 1 FEET, TOPOGRAPHIC MAPPING FROM ON SITE FIELD SURVEY METHODS. (ELEVATIONS ASSUMED)

VERTICIES AS SHOWN ARE APPROXIMATE. NO CERTIFICATION IS MADE OR IMPLIED AS TO THEIR ACCURACY.

EXPOSED SOILS SHALL BE SEEDED AND MULCHED AS QUICKLY AS POSSIBLE TO REDUCE THE RISK OF EROSION. THE ENGINEER IS RESPONSIBLE TO RE-SEED ANY AREAS WHICH DO NOT RISE AS A RESULT OF WEATHER CONDITIONS.

IF EXISTING CESSPOOL SHALL BE PUMPED OUT, FILLED WITH RITE OF DANK GRAVEL AND ABANDONED. IF THERE ARE ANY LINES FROM FROM THE EXISTING CESSPOOL, THEY SHALL BE DISCONNECTED AND REMOVED.

LOCATIONS OF THE EXISTING CESSPOOL, AND SEWER LINE DISCONNECT POINT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION.

IF UNEXPOSED SITE CONDITION WHICH WAS NOT DISCOVERED AS A RESULT OF THE ORIGINAL SITE INSPECTION & SOILS TESTING, ARE ABLE BRAGHT TO THE ATTENTION OF THE DESIGN ENGINEER AND THE NIGCCP. ANY DESIGN CHANGES OR MODIFICATIONS ARE TO BE APPROVED BY THE DESIGN ENGINEER AND THE NIGCCP.

NEUR PROPER FUNCTION OF THE PROPOSED ABSORPTION BED SYSTEM AND SEPTIC TANK, THE HOMEOWNERS SHOULD FOLLOW A MAINTENANCE SCHEDULE SHOWN.

ALL GRADES SHALL BE IN A MANNER WHICH DIRECTS STORMWATER FROM THE HOUSE AND THE SEWAGE SYSTEM.

INSTALLATION OF LOW FLOW PLUMBING FIXTURES IS RECOMMENDED. (1/2" OAL, FLUSH TOILETS & 3/4" OAL, SHOWER FIXTURES)

PLUMBING FIXTURES SHALL BE CONNECTED TO THE PROPOSED 1000 GALLON TANKS.

3" TEST PITS AND INFILTRATION TESTS CONDUCTED MAY VARY.

THE DESIGN ENGINEER RESERVES THE RIGHT TO MODIFY THIS PLAN IF THE SITE CONDITIONS VARY FROM THAT OF THE ORIGINAL SITE INSPECTION. (DESIGN MODIFICATION SUBJECT TO NIGCCP APPROVAL)

OTHER SOURCES SHOULD NOT BE DISCHARGED INTO THE PROPOSED SEWAGE SYSTEM AS THEY MAY HYDRAULICALLY OVERLOAD THE SYSTEM. THE INSTALLATION OF HOT TUBS AND SPAS MAY ALSO CAUSE HYDRAULIC OVERLOADING.

THE USE OF SEPTIC TANK ADDITIVES IS NOT RECOMMENDED. ADDITIVES ARE NOT NECESSARY FOR THE PROPER OPERATION OF A SEWAGE ABSORPTION BED SYSTEM AND MAY CAUSE SLUDGE & SOIL TO MIGRATE FROM THE SEPTIC TANK AND INTO THE ABSORPTION BED, WHICH WILL LIKELY RESULT IN A PREMATURE FAILURE.

WHY ANY CONSTRUCTION EQUIPMENT SHALL BE KEPT OFF THE SEPTIC AREA TO THE FURTHEST EXTENT POSSIBLE. FAILURE TO KEEP THIS EQUIPMENT OFF THE SEPTIC AREA MAY CAUSE COMPACTING OF THE SOIL AND COMPROMISE THE SEWAGE SYSTEMS ABILITY TO ABSORB WASTEWATER. IF ANY CONSTRUCTION EQUIPMENT, AND/OR CONSTRUCTION MAY BE DONE IN THIS AREAS, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER & NIGCCP AT THE TIME OF EXCAVATION FOR THE PROPOSED ABSORPTION BED. NO THE BOTTOM OF THE BED CAN BE GRADED FOR LEVEL, PRIOR TO THE BEGINNING OF SEALS.

THE ABSORPTION BED INSTALLATION SHALL BE INSPECTED AND CERTIFIED BY THE DESIGN ENGINEER.

PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES, INCLUDING SEPTIC, CABLE, TELEPHONE, WATER LINES, ETC.

THE SANITARY FACILITIES DESIGN BROWN HOUSE DOES NOT CONFORM TO ALL OF THE REQUIREMENTS OF APPENDIX 7-A. THE DESIGN WAS DETERMINED TO BE THE BEST REPAIR SOLUTION GIVEN THE LIMITED SPACE AND SOIL DEPTH AVAILABLE.

IF ROOT, CELLAR, OR FOOTING DRAINING WHICH DISCHARGE IN THE DIRECTION OF THE PROPOSED SEPTIC TANK & ABSORPTION BED SYSTEM ARE TO BE REDIRECTED OR INVERTED TO DISCHARGE FROM THE PROPOSED SEPTIC TANK AND SEWAGE SYSTEM.

THERE ARE NO NEIGHBORING LINES LOCATED WITHIN 100 FEET OF THE PROPOSED SEWAGE SYSTEM. A SEPARATION DISTANCE OF 10 FEET IS REQUIRED IF A WELL IS DOWNWIND AND IN THE DRAINAGE LINE OF DRAINAGE OF THE PROPOSED SEWAGE SYSTEM.

IT IS STRONGLY RECOMMENDED THAT BACTERIOLOGICAL TESTING BE CONDUCTED THROUGHOOUT ON THE EXISTING WATER WELL, AND THE EXISTING CESSPOOL. IT IS ALSO STRONGLY RECOMMENDED THAT AN ENVIRONMENTAL WATER TREATMENT UNIT BE INSTALLED TO INSURE THAT THE WATER IS SUITABLE FOR CONSUMPTION.

D:\DRAWING.DWG DESIGNED DATE: MAY 31, 2014 REVIEWED BY: RES

Fara Warner Over \$30,000:

Address: 3633 State Route 28A, West Shokan, NY 12494

Town: Olive

Bedrooms: 2

Engineer: Rex Sanford P.E.

Contractor: Burns Enterprises LLC

Sign In Date: 3/23/26

Design Application Received By DEP: 5/5/26

Design Application Deemed Complete: 7/9/26

Date Recommended for DEP Design Approval: 7/9/26

2-Year Deadline: 3/23/28

The major components will include a 1,000-gallon septic tank, one siphon chamber, 109 l.f. of gravity pipe, one effluent filter, one distribution box, 340 c.y. of absorption fill material, 180 l.f. of absorption trench, 200 l.f. of curtain drain, 25 l.f. of curtain drain outlet pipe, 140 l.f. of access rd., 19 trees to be removed, spread & reclaim excess material, 2 road plates and site restoration. The homeowner received three quotes. They were \$74,137.00, \$77,439.13 and \$78,235.09. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$74,137.00.

Cost Estimate

Homeowner: Fara Warner
SBL #: 45.4-1-12
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 7/16/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	1	\$4,837.05	\$4,837.05
4	Gravity Piping 4" PVC	LF	109	\$13.36	\$1,456.24
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	340	\$28.85	\$9,809.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	340	\$21.00	\$7,140.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	topsoil, stone haul	SF	210	\$21.00	\$4,410.00
12	Absorption Trench	LF	180	\$15.76	\$2,836.80
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	200	\$21.10	\$4,220.00
20	Curtain Drain Outlet Pipe	LF	25	\$11.52	\$288.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	12346	\$1.04	\$12,839.84
23	4" Clean Out	EA	1	\$185.00	\$185.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	1.5	\$98.00	\$147.00
27	Access Road	LF	140	\$20.70	\$2,898.00
29	temp culvert		1	\$750.00	\$750.00
30	19 trees to be removed		1	\$10,500.00	\$10,500.00
31	spread & reclaim excee from tanks		1	\$750.00	\$750.00
32	road plates		2	\$450.00	\$900.00
33			0	\$0.00	\$0.00
				TOTAL	\$70,416.69
				ADD 10%	\$7,458.36

Robert Kalb Over \$30,000 Second Time Repair:

Address: 11 Cruickshank Rd., Big Indian, NY 12410

Town: Shandaken

Bedrooms: 1

Engineer: Rex Sanford P.E.

Contractor: Michael Formont

Sign In Date: 9/13/24

Design Application Received By DEP: 3/13/26

Design Application Deemed Complete: 4/28/26

Date Recommended for DEP Design Approval: 7/9/26

2-Year Deadline: 9/13/26

The major components will include a 1,000-gallon septic tank, one pump chamber, 32 l.f. of gravity pipe, 83 l.f. force main, one effluent filter, one distribution box, 150 l.f. of Presby pipe, 30 c.y. of C-33 sand, 28 l.f. of vent pipe, 275 l.f. of access rd., foot bridge to hang insulated pipe off of, temp. bridge, set tanks with large excavator, 30, l.f. of insulated pipe, shuttle material, and site restoration. The homeowner received three quotes. They were \$57,999.00, \$59,667.16, \$61,012.67. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$57,999.00.

Cost Estimate

Homeowner: Robert Kalb
SBL #: 12.7-1-30
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 7/16/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

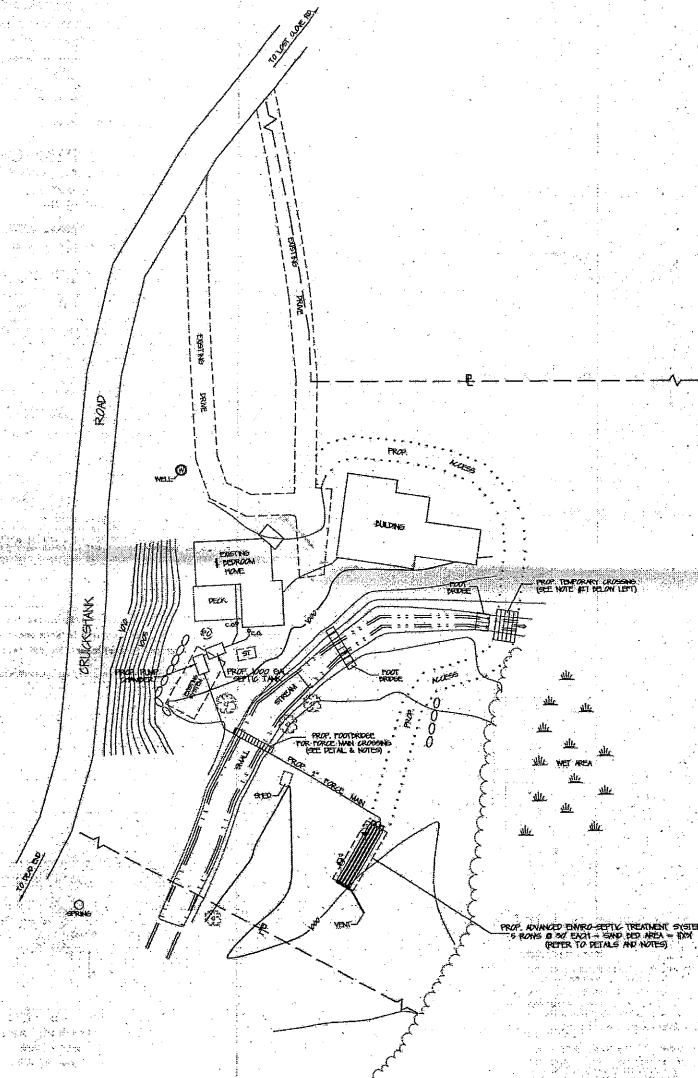
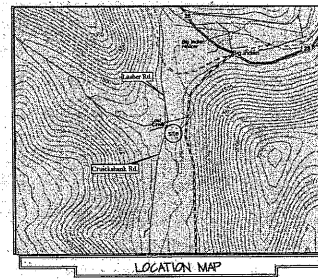
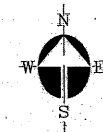
Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	1	\$4,917.79	\$4,917.79
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	1	\$10,657.61	\$10,657.61
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	32	\$13.36	\$427.52
5	Force Main 2"PVC	LF	83	\$11.36	\$942.88
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	0	\$28.85	\$0.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time + topsoil	CY	126	\$21.00	\$2,646.00
10	Effluent Filter	EA	1	\$100.00	\$100.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	150	\$30.77	\$4,615.50
18	NYSDOT C-33 Sand (Presby)	CY	30	\$48.23	\$1,446.90
19	Vent Pipe	LF	28	\$11.52	\$322.56
19	Curtain Drain (36" Avg. Depth)	LF	0	\$21.10	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$11.52	\$0.00
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	6000	\$1.04	\$6,240.00
23	4" Clean Out	EA	2	\$185.00	\$370.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	3	\$184.00	\$552.00
26	Additional Riser Section	EA	3	\$98.00	\$294.00
27	Access Road	LF	275	\$20.70	\$5,692.50
29	foot bridge for pipe		1	\$4,500.00	\$4,500.00
30	temp bridge		1	\$2,850.00	\$2,850.00
31	set tanks with large machine		1	\$1,500.00	\$1,500.00
32	insulated pipe		30	\$25.00	\$750.00
33	Shuttle material		1	\$1,800.00	\$1,800.00
				TOTAL	\$51,505.23
				ADD 10%	\$56,655.75

SAND BED AREA SIZING	ADVANCED ENVIRO-SEPTIC PIPE SIZING
20 GPD / (35 GPD/SQ.FT) = .56 SQ.FT. REQUIRED IF X .56 SAND BED AREA PROVIDED = .56 SQ.FT. **	2 BEDROOM X 10 L.F./BEDROOM = 20 L.F. REQUIRED ** 10 L.F. OF AES PIPE PROVIDED **

SEWAGE SYSTEM MAINTENANCE SCHEDULE	
SEPTIC TANK - THE SEPTIC TANK SHOULD BE INSPECTED ANNUALLY. THE SEPTIC TANK SHOULD BE PUMPED OUT EVERY THREE TO FIVE YEARS.	
DISTRIBUTION BOX - DISTRIBUTION BOXES SHOULD BE INSPECTED PERSONALLY TO CHECK THAT EACH PIPE IS RECEIVING EQUAL FLOW. WHEN LEAKS SHOULD BE ADJUSTED AS NECESSARY.	
ADV. ENVIRO-SEPTIC - THE ADVANCED ENVIRO-SEPTIC (AES) TREATMENT SYSTEM SHOULD NOT REQUIRE ANY MAINTENANCE.	

THIS SITE PLAN IS FOR ENGINEERING AND CONSTRUCTION PURPOSES ONLY.
 DESIGN FLOW = 300 GPD, BASED UPON 2 BEDROOM @ 150 GPD/BEDROOM.
 LOCATION TEST RESULTS - HOLE #1 - 3' MIN./IN. (PERG. HOLE DEPTH - 14')
 MAP REFERENCE: TOWN OF SHANDAKEN - SECTION 101, BLOCK 1, LOT 30
 HORIZONTAL INTERVAL - 1 FOOT, TOPOGRAPHIC MAPPING PER ON SITE FIELD SURVEY METHODS. (ELEVATIONS ASSUMED)
 PROPERTY LINES AS SHOWN ARE APPROXIMATE. NO GUARANTEE IS MADE OR IMPLIED AS TO THEIR ACCURACY.
 EXISTING SOLS SHALL BE REVEALED AND MAPPED AS QUICKLY AS POSSIBLE TO REDUCE THE RISK OF EROSION. THE OWNER IS RESPONSIBLE TO RE-DESIGN ANY AREAS WHICH DO NOT TAKE AS A RESULT OF WEATHER CONDITIONS.
 EXISTING SEPTIC TANK & PUMP CHAMBER SHALL BE PUMPED OUT, FILLED WITH RIN OF SAND GRAVEL & HANDMADE (REMOVE AS NECESSARY). ANY LINES LEADING FROM THE EXISTING SEPTIC TANK & PUMP CHAMBER SHALL BE DISCONNECTED AND HANDMADE.
 LOCATIONS OF THE EXISTING SEPTIC TANK, PUMP CHAMBER, AND OTHER LINE DISCHARGE POINTS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION.
 UNDISCOVERED SITE CONDITIONS WHICH WERE NOT DISCOVERED AS A RESULT OF THE ORIGINAL SITE INSPECTION & SOLS TESTING, SHALL BE BRACKETED TO THE ATTENTION OF THE DESIGN ENGINEER AND THE OWNER. ANY DESIGN CHANGES OR MODIFICATIONS ARE APPROVED BY THE DESIGN ENGINEER AND THE OWNER.
 TO ENSURE PROPER FUNCTION OF THE PROPOSED ADVANCED ENVIRO-SEPTIC TREATMENT SYSTEM, THE OWNER SHOULD FOLLOW THE MAINTENANCE SCHEDULE SHOWN.
 ALL GRADING SHALL BE IN A MANNER WHICH DIRECTION OF WATER AWAY FROM THE HOUSE AND THE SEWAGE SYSTEM.
 INSTALLATION OF LOW FLOW PLUMBING FIXTURES IS RECOMMENDED. (3/4 GALLON TOILETS & 2.0 GALLON FIXTURES)
 PLUMBING FIXTURES SHALL BE CONNECTED TO THE PROPOSED 1000 GALLON SEPTIC TANK.
 1. TEST PITS AND RESOLUTION TESTS CONDUCTED OCTOBER 2014.
 DESIGN ENGINEER RESERVES THE RIGHT TO MODIFY THIS DESIGN IF THE SITE CONDITIONS VARY FROM THAT OF THE ORIGINAL INSPECTION. DESIGN MODIFICATION SUBJECT TO OWNER APPROVAL.
 AFTER GUTTERS SHOULD NOT BE DISCHARGED INTO THE PROPOSED SEWAGE SYSTEM AS THEY MAY HYDRAULICALLY OVERLOAD THE SYSTEM. THE INSTALLATION OF HOT TUBS AND SPAS MAY ALSO CAUSE HYDRAULIC OVERLOADING.
 A USE OF SEPTIC TANK ADDITIVES IS NOT RECOMMENDED. ADDITIVES ARE NOT NECESSARY FOR THE PROPER OPERATION OF A SEPTIC TANK. SEPTIC TANK ADDITIVES MAY CAUSE GLUING & SOIL TO MIGRATE FROM THE SEPTIC TANK AND INTO THE AERATION TANK, WHICH WILL LIKELY RESULT IN A PREMATURE FAILURE.
 ANY CONSTRUCTION EQUIPMENT SHALL BE KEPT OFF THE SEPTIC AREA TO THE FURTHEST EXTENT POSSIBLE. FAILURE TO KEEP EQUIPMENT OFF THE SEPTIC AREA MAY CAUSE COMPACTION OF THE SOIL & COMPROMISE THE SEWAGE SYSTEM'S CAPACITY TO TREAT WASTEWATER.
 THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER & OWNER AT THE TIME OF EXCAVATION FOR THE PROPOSED ADVANCED ENVIRO-SEPTIC TREATMENT SYSTEM, TO VERIFY PROPER DEPTH AND GRADES.
 PROPOSED SEWAGE SYSTEM INSTALLATION SHALL BE INSPECTED AND CERTIFIED BY THE DESIGN ENGINEER.
 PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES INCLUDING CABLE, TELEPHONE, WATER LINES, ETC.
 IF SANITARY FACILITIES DESIGN SHOWN HEREON DOES NOT CONFORM TO ALL OF THE REQUIREMENTS OF APPENDIX A-A, THE DESIGN WAS PREPARED TO BE THE BEST REMEDIAL SOLUTION GIVEN THE LIMITED SPACE AND SOIL DEPTH AVAILABLE.
 1 FOOT, CELLAR, OR FOOTING DRAINS WHICH DISCHARGE IN THE DIRECTION OF THE PROPOSED SEWAGE SYSTEM ARE TO BE REJECTED OR DIVERTED AS NECESSARY.
 IT IS STRONGLY RECOMMENDED THAT BACTERIOLOGICAL TESTING BE CONDUCTED PERSONALLY ON THE WATER SUPPLY, DUE TO THE CLOSE PROXIMITY OF THE EXISTING SEWAGE SYSTEM. IT IS ALSO RECOMMENDED THAT AN ULTRAVIOLET WATER TREATMENT UNIT BE INSTALLED TO INSURE THAT THE WATER IS SUITABLE FOR CONSUMPTION.
 THERE ARE NO NEARBY WELLS LOCATED WITHIN 100 FEET OF THE PROPOSED SEWAGE SYSTEM. A SEPARATION OF 10 FEET IS REQUIRED IF A WELL IS NEARBY AND IN THE DIRECT LINE OF DRAINAGE OF THE PROPOSED SEWAGE SYSTEM.
 THE PROPOSED TEMPORARY GRASSLAND SHALL COVER ALL OF THE SEPTIC AREA, PLATES OR HEAVY GRADE MATS. THE PLATES OR MATS ALL COMPLETELY WITHIN THE SMALL SYSTEM AND AS NOT TO DISTURB THE BED OR BANKS OF THE STREAM.
 THE FORCE MAIN IS TO BE CONSTRUCTED WITH 12" URECON PRE-INSULATED FIBER PIPE TO PROTECT FROM FREEZING DURING THE WINTER MONTHS. THE INSULATED PIPE SHALL BE USED WHERE THE PIPE IS EXPOSED OR THE DEPTH OF COVER IS LESS THAN 12"

PREPARED BY:
REX SANFORD, P.E.
 PROFESSIONAL ENGINEERING SERVICES
 P.O. BOX 92
 SHOKAN, N.Y. 12150
 (518) 687-6416



TEST PIT INFORMATION	
TP. #	DESCRIPTION
1	0'-2" TOPSOIL 2'-32" SANDY LOAM 32'-60" SANDY GRAVEL NO MOTTLING OBSERVED NO WATER OBSERVED NO BEDROCK OBSERVED

CITY OF NEW YORK
 DEPT. OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER SUPPLY
 REGULATORY AND ENGINEERING PROGRAMS
APPROVED
 SUBJECT TO SPECIFIED CONDITIONS IN
 DETERMINATION DATED: 7/9/26
 TO: KALB
 BY: [Signature]
 APPROVED BY: [Signature]
 APPROVAL EXPIRATION DATE: 7/9/28
 UNLESS CONSTRUCTION IS COMPLETED

SITE PLAN
 SHOWING PROPOSED SANITARY FACILITIES REPAIR DES
ROBERT KALB
 SITUATE
 II CRUCKSHANK ROAD
 TOWN OF SHANDAKEN - ULSTER CO. NY
 NEW YORK

GRAPHIC SCALE
 1 inch = 30 ft.

NO.	DATE	DESCRIPTION	BY
1	07/09/26	SITE PLAN PREPARATION	RES

ALLOCATION OF THIS PLAN BY ANY PERSON OTHER THAN A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AS A MEANS OF RECORD DURING THE NEW YORK STATE EDUCATION LIVES. ANY ATTEMPTING TO THIS PLAN BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL BE SO NOTED AND DATED AND BE ACCOMPANIED BY THE SIGNATURE OF SUCH PROFESSIONAL ENGINEER.

Robert Danetz Additional Cost:

Address: 182 Deer Run Rd., Denver, NY 12421

Town: Roxbury

Engineer: John Bolger P.E.

Contractor: Four Season Landscaping

This project was previously approved for \$82,100.00. During construction the contractor encountered rock. As a result, the contractor had to hammer for 5 hours to achieve the appropriate depth. The contractor has requested \$1,781.25 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$1,781.25 for a total project cost of \$83,881.25.

William Denter Additional Cost:

Address: 14 Rion Rd., Chichester, NY 12416

Town: Shandaken

Engineer: John Bolger P.E.

Contractor: Michael Formont

This project was previously approved for \$53,054.14. During construction the contractor had to replace the pipe between the house and the septic tank which had not been replaced previously. The contractor also had to add an 18" riser to the septic tank for maintenance. The contractor has requested \$366.60 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$366.60 for a total project cost of \$53,420.74.

Susan Friedman Over \$30,000:

Address: 1269 Route 28A, West Hurley, NY 12491

Town: Hurley

Bedrooms: 2

Engineer: Christopher DiChiaro P.E.

Contractor: Chad Davis Contracting

Sign In Date: 4/9/25

Design Application Received By DEP: 8/12/25

Design Application Deemed Complete: 10/14/25

Date Recommended for DEP Design Approval: 10/14/25

2-Year Deadline: 4/9/27

This project was previously approved for \$7,728.60 in 2025 for a 1,000-gallon septic tank. The major components will include 87 l.f. of gravity pipe, one distribution box, 50 c.y. of absorption fill material, 160 l.f. of absorption trench, 230 l.f. of access rd., 8 trees to be removed, 60 l.f. of gutter drain, and site restoration. The homeowner received three quotes. They were \$34,043.17, \$36,046.86, \$38,722.61. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$34,043.17 for a total project cost of \$41,771.77.

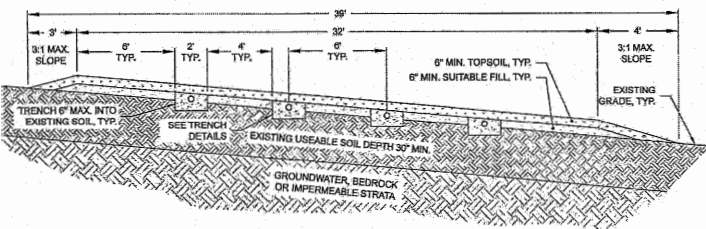
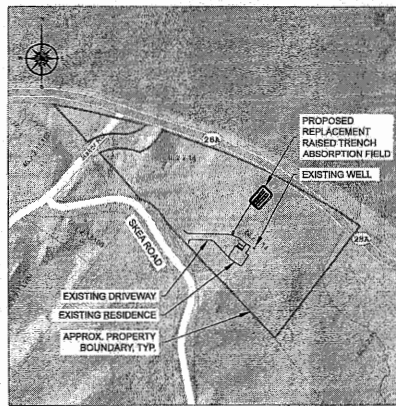
Cost Estimate

Homeowner: Susan Friedman
SBL #: 46.2-2-14
Designer: Christopher Dichiaro
Completed By: Mitch Hull
Date: 11/4/2025

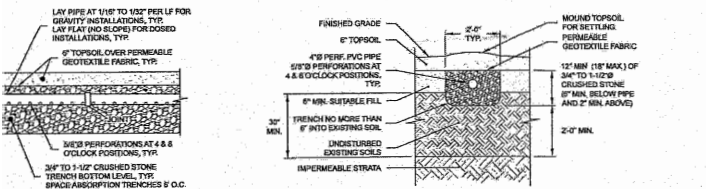
2025 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1000 Gal. Tank With System	EA	0	\$4,917.79	\$0.00
	1250 Gal. Tank With System	EA	0	\$5,064.16	\$0.00
	1500 Gal. Tank With System	EA	0	\$5,482.38	\$0.00
2	Pump Chamber	EA	0	\$9,635.00	\$0.00
3	Syphon Chamber	EA	0	\$4,913.59	\$0.00
4	Gravity Piping 4" PVC	LF	87	\$13.36	\$1,162.32
5	Force Main 2"PVC	LF	0	\$12.38	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	50	\$28.85	\$1,442.50
8	Haul for topsoil & Stone	CY	75	\$15.75	\$1,181.25
9	1 Hr. Haul Time	CY	50	\$15.75	\$787.50
10	Effluent Filter	EA	0	\$105.00	\$0.00
11	Conventional Absorption Bed	SF	0	\$6.26	\$0.00
12	Absorption Trench	LF	160	\$15.76	\$2,521.60
13	Eljen Units (Trench Systems)	SF	0	\$25.67	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$45.80	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$25.67	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$45.80	\$0.00
17	Presby Systems Pipe	LF	0	\$32.56	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$45.80	\$0.00
19	Vent Pipe	LF	0	\$12.81	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	0	\$20.18	\$0.00
20	Curtain Drain Outlet Pipe	LF	0	\$12.81	\$0.00
21	Swale	LF	0	\$7.17	\$0.00
22	Topsoil, Seed & Mulch	SF	6990	\$1.04	\$7,269.60
23	4" Clean Out	EA	0	\$185.00	\$0.00
24	Silt Fence	LF	0	\$3.11	\$0.00
25	Riser, First Foot & Lid	EA	0	\$188.00	\$0.00
26	Additional Riser Section	EA	0	\$101.00	\$0.00
27	Access Road	LF	230	\$21.10	\$4,853.00
29	8 trees to be removed		1	\$10,500.00	\$10,500.00
30	pump existing tank		1	\$450.00	\$450.00
31	re route gutter drains		60	\$13.36	\$801.60
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$31,849.34
				ADD 10%	\$35,034.27



SHALLOW TRENCH SYSTEM CROSS SECTION
N.T.S.



TYPICAL SHALLOW TRENCH
CROSS SECTION
N.T.S.



NOTE: THE PROPOSED REPLACEMENT ABSORPTION AREA IS SHOWN AT LOCATION 1627' FROM ANY SPRING, RESERVOIR, BROOK, RIVER, OR OTHER WATERBODIES OR ANY PERMANENT OR SEASONAL FLOODPLAIN. THERE SHALL BE NO EXISTING WELLS WITHIN 100' GDF (IN THE DIRECT LINE OF DRAINAGE) FROM THE PROPOSED REPLACEMENT ABSORPTION AREA.

NEARLY SHALL OCCUR ANY PORTION OF THE PROPOSED REPLACEMENT ABSORPTION AREA AREA SPECIFICALLY SHOWN ON NEW CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYDEP) APPROVED PLANS.

LOADING SHALL DIRECT DRAINAGE WATER ANY FROM THE PROPOSED REPLACEMENT ABSORPTION AREA.

IF ANY PORTION OF THE PROPOSED REPLACEMENT ABSORPTION AREA AREA IS EXCEPT AS NEEDED FOR THE OWTS STRUCTURE, THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THIS AREA BEFORE, DURING OR AFTER CONSTRUCTION. EXISTING GRASS MUST BE TAKEN DURING CONSTRUCTION SO AS TO AVOID ANY UNDESIRABLE CONNECTION OR DISTURBANCE TO AREA.

SOIL SHALL NOT BE STRIPPED FROM ANY PORTION OF THE PROPOSED REPLACEMENT ABSORPTION AREA.

NO EXISTING OR PROPOSED HIGHWAYS, DRIVEWAYS, PARKING AREAS, OR OTHER AREAS SUBJECT TO HEAVY TRAFFIC SHALL BE CONSTRUCTED OVER ANY PORTION OF THE OWTS AREA.

TREES, STUMPS, BRUSH, WEEDS, ETC. SHALL BE CUT AND REMOVED FROM THE PROPOSED ABSORPTION AREA, ALL EXISTING UTILITIES SHALL BE PROTECTED AND NOT DISTURBED.

CONSTRUCTION OF THE PROPOSED ABSORPTION AREA SHALL NOT OCCUR WHILE IMPORTED MATERIALS ON SITE SOLE ARE SATURATED TRUCKS.

NO LOADING, CRACK, GARAGE FLOOR DRAINS, OR SURFACE WATER DRAINAGE SHALL BE DISCHARGED INTO THE OWTS.

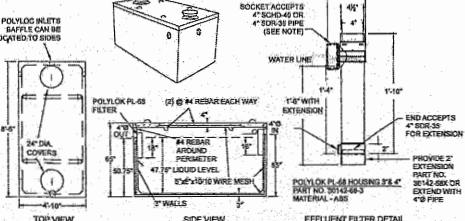
SEWAGE PUMP, DAMAGE GARAGE, WATER SOUTHERN BACKWASH, OR HOT TUBS WASTES SHALL BE DISCHARGED INTO THE OWTS.

CONSTRUCTION SHALL CONFORM WITH NYNCRP 600.74, NYNCRP 74.1, NYNCRP 74.2, NYNCRP 74.3, NYNCRP 74.4, NYNCRP 74.5, NYNCRP 74.6, NYNCRP 74.7, NYNCRP 74.8, NYNCRP 74.9, NYNCRP 75.0, NYNCRP 75.1, NYNCRP 75.2, NYNCRP 75.3, NYNCRP 75.4, NYNCRP 75.5, NYNCRP 75.6, NYNCRP 75.7, NYNCRP 75.8, NYNCRP 75.9, NYNCRP 76.0, NYNCRP 76.1, NYNCRP 76.2, NYNCRP 76.3, NYNCRP 76.4, NYNCRP 76.5, NYNCRP 76.6, NYNCRP 76.7, NYNCRP 76.8, NYNCRP 76.9, NYNCRP 77.0, NYNCRP 77.1, NYNCRP 77.2, NYNCRP 77.3, NYNCRP 77.4, NYNCRP 77.5, NYNCRP 77.6, NYNCRP 77.7, NYNCRP 77.8, NYNCRP 77.9, NYNCRP 78.0, NYNCRP 78.1, NYNCRP 78.2, NYNCRP 78.3, NYNCRP 78.4, NYNCRP 78.5, NYNCRP 78.6, NYNCRP 78.7, NYNCRP 78.8, NYNCRP 78.9, NYNCRP 79.0, NYNCRP 79.1, NYNCRP 79.2, NYNCRP 79.3, NYNCRP 79.4, NYNCRP 79.5, NYNCRP 79.6, NYNCRP 79.7, NYNCRP 79.8, NYNCRP 79.9, NYNCRP 80.0, NYNCRP 80.1, NYNCRP 80.2, NYNCRP 80.3, NYNCRP 80.4, NYNCRP 80.5, NYNCRP 80.6, NYNCRP 80.7, NYNCRP 80.8, NYNCRP 80.9, NYNCRP 81.0, NYNCRP 81.1, NYNCRP 81.2, NYNCRP 81.3, NYNCRP 81.4, NYNCRP 81.5, NYNCRP 81.6, NYNCRP 81.7, NYNCRP 81.8, NYNCRP 81.9, NYNCRP 82.0, NYNCRP 82.1, NYNCRP 82.2, NYNCRP 82.3, NYNCRP 82.4, NYNCRP 82.5, NYNCRP 82.6, NYNCRP 82.7, NYNCRP 82.8, NYNCRP 82.9, NYNCRP 83.0, NYNCRP 83.1, NYNCRP 83.2, NYNCRP 83.3, NYNCRP 83.4, NYNCRP 83.5, NYNCRP 83.6, NYNCRP 83.7, NYNCRP 83.8, NYNCRP 83.9, NYNCRP 84.0, NYNCRP 84.1, NYNCRP 84.2, NYNCRP 84.3, NYNCRP 84.4, NYNCRP 84.5, NYNCRP 84.6, NYNCRP 84.7, NYNCRP 84.8, NYNCRP 84.9, NYNCRP 85.0, NYNCRP 85.1, NYNCRP 85.2, NYNCRP 85.3, NYNCRP 85.4, NYNCRP 85.5, NYNCRP 85.6, NYNCRP 85.7, NYNCRP 85.8, NYNCRP 85.9, NYNCRP 86.0, NYNCRP 86.1, NYNCRP 86.2, NYNCRP 86.3, NYNCRP 86.4, NYNCRP 86.5, NYNCRP 86.6, NYNCRP 86.7, NYNCRP 86.8, NYNCRP 86.9, NYNCRP 87.0, NYNCRP 87.1, NYNCRP 87.2, NYNCRP 87.3, NYNCRP 87.4, NYNCRP 87.5, NYNCRP 87.6, NYNCRP 87.7, NYNCRP 87.8, NYNCRP 87.9, NYNCRP 88.0, NYNCRP 88.1, NYNCRP 88.2, NYNCRP 88.3, NYNCRP 88.4, NYNCRP 88.5, NYNCRP 88.6, NYNCRP 88.7, NYNCRP 88.8, NYNCRP 88.9, NYNCRP 89.0, NYNCRP 89.1, NYNCRP 89.2, NYNCRP 89.3, NYNCRP 89.4, NYNCRP 89.5, NYNCRP 89.6, NYNCRP 89.7, NYNCRP 89.8, NYNCRP 89.9, NYNCRP 90.0, NYNCRP 90.1, NYNCRP 90.2, NYNCRP 90.3, NYNCRP 90.4, NYNCRP 90.5, NYNCRP 90.6, NYNCRP 90.7, NYNCRP 90.8, NYNCRP 90.9, NYNCRP 91.0, NYNCRP 91.1, NYNCRP 91.2, NYNCRP 91.3, NYNCRP 91.4, NYNCRP 91.5, NYNCRP 91.6, NYNCRP 91.7, NYNCRP 91.8, NYNCRP 91.9, NYNCRP 92.0, NYNCRP 92.1, NYNCRP 92.2, NYNCRP 92.3, NYNCRP 92.4, NYNCRP 92.5, NYNCRP 92.6, NYNCRP 92.7, NYNCRP 92.8, NYNCRP 92.9, NYNCRP 93.0, NYNCRP 93.1, NYNCRP 93.2, NYNCRP 93.3, NYNCRP 93.4, NYNCRP 93.5, NYNCRP 93.6, NYNCRP 93.7, NYNCRP 93.8, NYNCRP 93.9, NYNCRP 94.0, NYNCRP 94.1, NYNCRP 94.2, NYNCRP 94.3, NYNCRP 94.4, NYNCRP 94.5, NYNCRP 94.6, NYNCRP 94.7, NYNCRP 94.8, NYNCRP 94.9, NYNCRP 95.0, NYNCRP 95.1, NYNCRP 95.2, NYNCRP 95.3, NYNCRP 95.4, NYNCRP 95.5, NYNCRP 95.6, NYNCRP 95.7, NYNCRP 95.8, NYNCRP 95.9, NYNCRP 96.0, NYNCRP 96.1, NYNCRP 96.2, NYNCRP 96.3, NYNCRP 96.4, NYNCRP 96.5, NYNCRP 96.6, NYNCRP 96.7, NYNCRP 96.8, NYNCRP 96.9, NYNCRP 97.0, NYNCRP 97.1, NYNCRP 97.2, NYNCRP 97.3, NYNCRP 97.4, NYNCRP 97.5, NYNCRP 97.6, NYNCRP 97.7, NYNCRP 97.8, NYNCRP 97.9, NYNCRP 98.0, NYNCRP 98.1, NYNCRP 98.2, NYNCRP 98.3, NYNCRP 98.4, NYNCRP 98.5, NYNCRP 98.6, NYNCRP 98.7, NYNCRP 98.8, NYNCRP 98.9, NYNCRP 99.0, NYNCRP 99.1, NYNCRP 99.2, NYNCRP 99.3, NYNCRP 99.4, NYNCRP 99.5, NYNCRP 99.6, NYNCRP 99.7, NYNCRP 99.8, NYNCRP 99.9, NYNCRP 100.0, NYNCRP 100.1, NYNCRP 100.2, NYNCRP 100.3, NYNCRP 100.4, NYNCRP 100.5, NYNCRP 100.6, NYNCRP 100.7, NYNCRP 100.8, NYNCRP 100.9, NYNCRP 101.0, NYNCRP 101.1, NYNCRP 101.2, NYNCRP 101.3, NYNCRP 101.4, NYNCRP 101.5, NYNCRP 101.6, NYNCRP 101.7, NYNCRP 101.8, NYNCRP 101.9, NYNCRP 102.0, NYNCRP 102.1, NYNCRP 102.2, NYNCRP 102.3, NYNCRP 102.4, NYNCRP 102.5, NYNCRP 102.6, NYNCRP 102.7, NYNCRP 102.8, NYNCRP 102.9, NYNCRP 103.0, NYNCRP 103.1, NYNCRP 103.2, NYNCRP 103.3, NYNCRP 103.4, NYNCRP 103.5, NYNCRP 103.6, NYNCRP 103.7, NYNCRP 103.8, NYNCRP 103.9, NYNCRP 104.0, NYNCRP 104.1, NYNCRP 104.2, NYNCRP 104.3, NYNCRP 104.4, NYNCRP 104.5, NYNCRP 104.6, NYNCRP 104.7, NYNCRP 104.8, NYNCRP 104.9, NYNCRP 105.0, NYNCRP 105.1, NYNCRP 105.2, NYNCRP 105.3, NYNCRP 105.4, NYNCRP 105.5, NYNCRP 105.6, NYNCRP 105.7, NYNCRP 105.8, NYNCRP 105.9, NYNCRP 106.0, NYNCRP 106.1, NYNCRP 106.2, NYNCRP 106.3, NYNCRP 106.4, NYNCRP 106.5, NYNCRP 106.6, NYNCRP 106.7, NYNCRP 106.8, NYNCRP 106.9, NYNCRP 107.0, NYNCRP 107.1, NYNCRP 107.2, NYNCRP 107.3, NYNCRP 107.4, NYNCRP 107.5, NYNCRP 107.6, NYNCRP 107.7, NYNCRP 107.8, NYNCRP 107.9, NYNCRP 108.0, NYNCRP 108.1, NYNCRP 108.2, NYNCRP 108.3, NYNCRP 108.4, NYNCRP 108.5, NYNCRP 108.6, NYNCRP 108

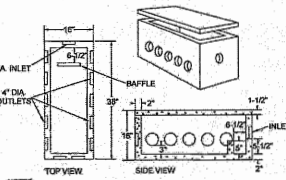
LOW TRENCH ABSORPTION SYSTEM NOTES:

MATERIAL SHALL NOT BE PLACED WHEN UNDERLYING SOILS ARE SATURATED OR FROZEN.
LATERAL EROSION, A DIVERSION DITCH, BERM OR CURTAIN DRAIN SHALL BE CONSTRUCTED UPON THE FILL TO PREVENT SURFACE
OFF FROM INTERFERING THE FILL.
SOIL SHALL NOT BE STRIPPED FROM ANY PORTION OF THE PROPOSED REPLETION ABSORPTION AREA.
SOIL SHALL NOT BE DISTURBED PRIOR TO PLACEMENT OF FILL.
DRAINAGE TRENCHES SHALL BE INSTALLED PARALLEL TO, AND DOWN-DRIFT OF, THE TRENCH LOCATIONS.
AND ABSORPTION TRENCH SIDEWALLS AND BOTTOMS SHALL BE HAND MARKED IMMEDIATELY PRIOR TO PLACEMENT OF TRENCH
REIGD.
TOWN OF ABSORPTION TRENCHES SHALL NOT BE ABOVE ORIGINAL GRADE, SOIL.
NORM DEPTH OF USABLE FILL, PLUS SIX INCHES OF TOPSOIL, SHALL NOT EXCEED THIRTY INCHES.
SOIL SHALL HAVE A PERCENTAGE EQUIV. TO OR LESS THAN THE PERCENTAGE OF THE UNDERLYING IN SITU USABLE SOIL.
INTERSTICES OF ALL DISTRIBUTOR LATERALS SHALL BE CAPPED.

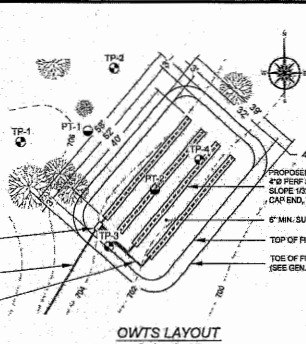
NOTE: THIS IS NOT A SURVEY MAP
THIS DATA OBTAINED FROM A SURVEY MAP TITLED "MAP OF LANDS TO BE CONVEYED TO SUSAN J. FRIEDMAN & CHARLES D. KIRKPATRICK
BY JEFFREY A. LA MONDA, L.L.C. (JC-49221) DATED 09/16/1990 AND ADDITIONAL GNSS FIELD MEASUREMENTS, TOPOGRAPHIC DATA
FROM NYS LAND DATABASE. PARCEL BOUNDARIES AS SHOWN ARE BASED ON AFOREMENTIONED SOURCES AND FIELD EVIDENCE. THIS
MAP MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF SAID SOURCES OR BOUNDARIES.



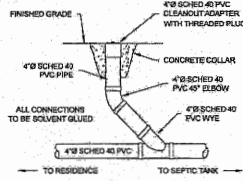
1,000 GALLON PRECAST CONCRETE SEPTIC TANK DETAIL
NTS



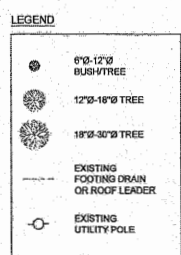
12 OUTLET PRECAST CONCRETE
DISTRIBUTION BOX DETAIL
NTS



OWTS LAYOUT
Scale: 1" = 20'



SEWER LINE CLEANOUT DETAIL
N.T.S.



CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

SUBJECT TO SPECIFIED CONDITIONS IN
DETERMINATION DATED: 12/14/25
TO: Frederick
SIC: _____
FI: _____

APPROVED BY: [Signature]
APPROVAL EXPIRATION DATE: 7/1/14/23
UNLESS CONSTRUCTION IS COMPLETED.

SITE PLAN
Scale: 1" = 30'

SOILS DATA	
TP-1	TEST HOLE #1 SOIL PROFILE (05-14-25): 0'-0" TOPSOIL, 0'-30" BELLY LOAM ROOTS TO 28", NO MOTTLING, NO GROUNDWATER, ROCK AT 25"
TP-2	TEST HOLE #2 SOIL PROFILE (05-14-25): 0'-0" TOPSOIL, 0'-30" BELLY LOAM ROOTS TO 30", NO MOTTLING, NO GROUNDWATER, ROCK AT 30"
TP-3	TEST HOLE #3 SOIL PROFILE (05-14-25): 0'-0" TOPSOIL, 0'-48" BELLY LOAM ROOTS TO 30", MOTTLING AT 30", DEEP AT 30", NO BEDROCK
TP-4	TEST HOLE #4 SOIL PROFILE (05-14-25): 0'-0" TOPSOIL, 0'-48" BELLY LOAM ROOTS TO 30", MOTTLING AT 30", NO GROUNDWATER, NO BEDROCK

PERC DATA

PERC SOLE #	PERC HOLE DEPTH	SOIL PROFILE	TEST DATE	PERCOLATION TEST RUNS (MP)				
				1	2	3	4	5
PT-1 	12"	0'-8" TOPSOIL 8'-12" SILTY LM	05-14-25	4	7	11	11	
PT-2 	12"	0'-8" TOPSOIL 8'-12" SILTY LM	05-14-25	5	8	10	10	

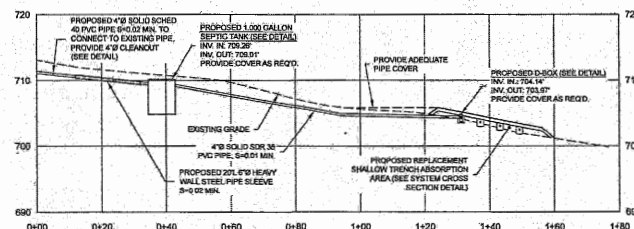
DESIGN BASIS*

PROPOSED USE = 2 BEDROOM RESIDENCE
DESIGN FLOW = (2 BEDROOMS)(110 GPD/BEDROOM) = 220 GPD
SEPTIC TANK VOLUME REQUIRED = 1,000 GALLONS
SEPTIC TANK VOLUME PROVIDED = 1,000 GALLONS

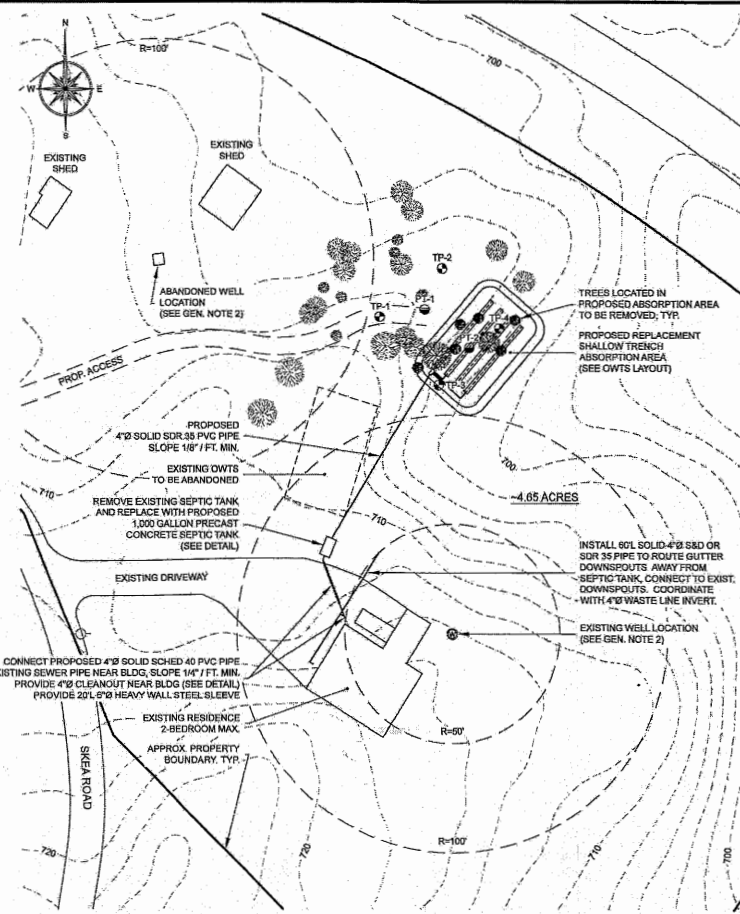
REPLACEMENT SYSTEM (SHALLOW TRENCH SYSTEM):
MEASURED IN-SITU STABILIZED PERCOLATION RATE = 10 MIN/INCH

TRENCH LENGTH CALCULATION:
SEWAGE APPLICATION RATE = 0.90 GPD/SF
ABSORPTION AREA REQUIRED = 220 GPD / 0.90 GPD/SF = 245 SF
TRENCH LENGTH REQUIRED = 245 SF / 2' WIDE TRENCHES = 123 LF
TRENCH LENGTH REQUIRED = 400 LF (400 LF MIN.)

* = DESIGNED TO THE EXTENT PRACTICAL IN ACCORDANCE WITH 10 NYCRR APPENDIX 75-A, NYSOCH - RESIDENTIAL ON-SITE WASTEWATER TREATMENT SYSTEM DESIGN HANDBOOK* (2012) AND NYCDEP* RULES AND REGULATIONS FOR THE PROTECTION FROM CONTAMINATION, DEGRADATION AND POLLUTION OF THE NEW YORK CITY WATER SUPPLY AND ITS SOURCES* (2019)



SYSTEM PROFILE
Scale: H: 1" = 20' / V: 1" = 10'



Gerald Irwin Over \$30,000:

Address: 1425 Aden Road, Liberty, NY 12754

Town: Liberty

Bedrooms: 4

Engineer: Thomas L. Ward, P.E.

Contractor: B. Rogerson Excavating

Sign In Date: 9/28/24

Design Application Received By DEP: 8/19/24

Design Application Deemed Complete: 8/20/24

Date Recommended for DEP Design Approval: 10/25/24

2-Year Deadline: 9/28/26

This project was previously approved for \$2,695.00 in 2008 for a 1,000-gallon septic tank. The major components include a 1,000-gallon septic tank, one pump chamber, 8 l.f. of gravity pipe, 130 l.f. of force main, 160 c.y. of absorption fill material, 3 peat modules, 120 l.f. curtain drain, 45 l.f. of curtain drain outlet pipe, 130 l.f. swale, 1 cleanout, 85 l.f. of access road, pump the existing septic tank, a temporary culvert, bucketing material to absorption field and site restoration. The homeowner received three quotes. They were \$64,346.00, \$69,862.00 and \$77,408.00. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$64,346.00 for a total project cost of \$67,041.00.

Cost Estimate

Homeowner: Tracy Irwin
SBL #: 41-1-16
Designer: Tom Ward
Completed By: Mitch Hull
Date: 8/27/2024

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1000 Gal. Tank With System	EA	1	\$4,917.79	\$4,917.79
	1250 Tank With System	EA	0	\$4,683.22	\$0.00
	1500 Gal. Tank With System	EA	0	\$5,065.98	\$0.00
2	Gravity Piping 4" PVC	LF	8	\$13.86	\$110.88
3	Force Main 2"PVC	LF	130	\$13.56	\$1,736.80
4	Absorption Fill Material	CY	160	\$28.35	\$4,616.00
5	C-33 Sand	CY	0	\$46.99	\$0.00
6	Random Fill Material	CY	0	\$22.99	\$0.00
6	1 Hr. Haul Time	CY	160	\$15.75	\$2,520.00
7	Effluent Filter	EA	0	\$109.00	\$0.00
8	Peat Filters One Module	EA	0	\$14,880.04	\$0.00
	Two Modules	EA	0	\$20,161.73	\$0.00
	Three Modules	EA	1	\$27,639.25	\$27,639.25
	Four Modules	EA	0	\$31,263.73	\$0.00
	Five Modules	EA	0	\$36,948.09	\$0.00
	Six Modules	EA	0	\$42,234.58	\$0.00
	Seven Modules	EA	0	\$48,457.23	\$0.00
9	Curtain Drain	LF	120	\$21.10	\$2,532.00
10	Curtain Drain Outlet Pipe	LF	45	\$11.52	\$518.40
11	Swale	LF	130	\$7.39	\$960.70
12	Topsoil, Seed & Mulch	SF	5000	\$1.04	\$5,200.00
13	4" Clean Out	EA	1	\$185.00	\$185.00
14	Silt Fence	LF	0	\$2.03	\$0.00
15	Risers	EA	3	\$184.00	\$552.00
16	Access Road	LF	85	\$20.80	\$1,759.50
17	Pump existing tank		1	\$450.00	\$450.00
18	Temp Culvert		1	\$750.00	\$750.00
19	Bucket Material Up Hill		30	\$160.00	\$4,800.00
20			0	\$0.00	\$0.00
21			0	\$0.00	\$0.00
22			0	\$0.00	\$0.00
23			0	\$0.00	\$0.00
TOTAL					\$59,248.32
ADD 10%					\$65,173.15

Natasha Jelenich Additional Cost Over \$30,000:

Address: 390 Denver Run Rd., Denver, NY 12421

Town: Roxbury

Bedrooms: 2

Engineer: Rex Sanford P.E.

Contractor: Maduri Excavating

Sign In Date: 5/26/26

Design Application Received By DEP: 3/17/26

Design Application Deemed Complete: 3/24/26

Date Recommended for DEP Design Approval: 5/5/26

2-Year Deadline: 5/26/28

This project was previously approved for \$29,865.00 in 2024 for a 1,000-gallon septic tank. Most of the major components include 68 l.f. of gravity pipe, one distribution box, 340 c.y. of absorption fill material, 150 l.f. of Presby pipe, 45 c.y. of C-33 sand, 39 l.f. of vent pipe, 73 l.f. of curtain drain, 10 l.f. of curtain drain outlet pipe, bucket material, 11 trees to be removed, clean out existing drainage, install a berm and rip rap, and site restoration. The homeowner received three quotes. They were \$68,268.57, \$69,310.36, and \$70,956.13. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$68,268.57 for a total project cost of \$98,133.57.

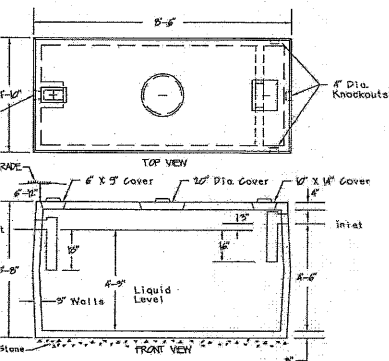
Cost Estimate

Homeowner: Natasha Jelenich
SBL #: 222-5-24
Designer: Rex Sanford
Completed By: Mitch Hull
Date: 3/19/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	0	\$4,917.79	\$0.00
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	0	\$4,837.05	\$0.00
4	Gravity Piping 4" PVC	LF	68	\$13.36	\$908.48
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	340	\$28.85	\$9,809.00
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	385	\$21.00	\$8,085.00
10	Effluent Filter	EA	0	\$100.00	\$0.00
11	topsoil stone haul	CY	130	\$21.00	\$2,730.00
12	Absorption Trench	LF	0	\$15.76	\$0.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	150	\$30.77	\$4,615.50
18	NYSDOT C-33 Sand (Presby)	CY	45	\$48.23	\$2,170.35
19	Vent Pipe	LF	39	\$11.52	\$449.28
19	Curtain Drain (36" Avg. Depth)	LF	73	\$21.10	\$1,540.30
20	Curtain Drain Outlet Pipe	LF	10	\$11.52	\$115.20
21	Swale	LF	150	\$7.39	\$1,108.50
22	Topsoil, Seed & Mulch	SF	8210	\$1.04	\$8,538.40
23	4" Clean Out	EA	0	\$185.00	\$0.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	0	\$184.00	\$0.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	0	\$20.70	\$0.00
29	pump existing tank		1	\$450.00	\$450.00
30	11 trees to be removed		1	\$9,000.00	\$9,000.00
31	berm and rip rap		1	\$6,500.00	\$6,500.00
32	clean out existing drainage		1	\$1,800.00	\$1,800.00
33	shuttle material		1	\$3,600.00	\$3,600.00
				TOTAL	\$62,299.98
				ADD 10%	\$68,529.98



TYPICAL 1000 GALLON SEPTIC TANK
(NOT TO SCALE)

TANK NOTES

1. TANK TO BE PRECAST REINFORCED CONCRETE - GRANVILLE OR ACCEPTED EQUAL CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY SET AND SHALL HAVE THE CAPABILITY OF SUPPORTING 500 PSF.
2. TANK TO BE DESIGNED IN A 4' LAYER OF CRUSHED STONE.
3. IT IS RECOMMENDED THAT PRIOR TO BACKFILL, THE TANK SHOULD BE FILLED WITH WATER TO VERIFY THAT IT HAS BEEN ADEQUATELY SEALED. IN ADDITION, ALL JOINTS SHALL BE GRADED/SEALED TO BE WATER-TIGHT. IN ADDITION, EXHAUSTION HOLE SHALL BE GRADED/SEALED. (SEE PAGES 10-11 FOR RECOMMENDATIONS)
4. ALL OUTLETS SHALL BE MADE WATER-TIGHT. THIS INCLUDES ANY UNPAID OUTLET HOLES.
5. VENT PIPES LEAVING FROM THE D-PHASE TO BE CONSTRUCTED OF SOLID PIPE.
6. THE OUTLET OF THE D-PHASE MUST BE SET AT LEAST 18" ABOVE THE LEVEL OF THE ADVANCED ENVIRO-SEPTIC SANDS WITH THE CORRECTING PIPE SLATE NOT LESS THAN 18" (APPROXIMATELY 1/8" PER FOOT).

SAND BED AREA SIZING
200 GPD / (6 GPD/SQFT) = 500 SQFT. REQUIRED
IF X 50' SAND BED AREA PROVIDED = 500 SQFT. =

ADVANCED ENVIRO-SEPTIC PIPE SIZING
2 BEDROOMS X 10 LPI/PERSON = 140 LPI. REQUIRED
= 50 LPI. OF 4" PIPE PROVIDED =

THIS PLAN IS FOR ENGINEERING AND CONSTRUCTION PURPOSES ONLY.
FLOW = 500 GPD, BASED UPON 2 BEDROOMS @ 100 GPD/PERSON.

INTERIOR TEST RESULTS - FLOW = 4 MIN./IN. DEPTH HOLE DEPTH = 15"

REFERENCE: TOWN OF ROXBURY - SECTION 32, BLOCK 9, LOT 14

1. INTERVAL = 5 FEET, TOPOGRAPHIC MAPPING PER ON SITE FIELD SURVEY METHODS. (ELEVATIONS APPROXIMATE)

2. INTERVAL AS SHOWN ARE APPROXIMATE. NO CERTIFICATION IS MADE OR IMPLIED AS TO THEIR ACCURACY.

3. EXISTING SOLID SHALL BE SEVERED AND ALLOWED AS QUICKLY AS POSSIBLE TO REMOVE THE RISK OF INJURY. THE OWNER SHALL BE RESPONSIBLE TO RE-SEED ANY AREAS WHERE EXISTING TANKS ARE A RESULT OF WEATHER CONDITIONS.

4. EXISTING SEPTIC TANK WAS INSTALLED AS AN EXISTING TANK REPLACEMENT IN NOVEMBER 2014. ALL LINES LEAVING EXISTING SEPTIC TANK SHALL BE DISCONNECTED AND REMOVED.

5. LOCATIONS OF THE EXISTING SEPTIC TANK AND REMOVED LINE DISCONNECT POINT ARE APPROXIMATE AND SHALL BE VERIFIED BY INVESTIGATION AT THE TIME OF CONSTRUCTION.

6. GREEN SITE CONDITION HAS NOT BEEN DISCOVERED AS A RESULT OF THE ORIGINAL SITE INVESTIGATION & SOIL TESTING. THE INVESTIGATION OF THE EXISTING SEPTIC TANK MAY CAUSE DAMAGE TO THE EXISTING SEPTIC TANK. ANY DESIGN CHANGES OR MODIFICATIONS ARE APPROVED BY THE DESIGN ENGINEER AND THE OWNER.

7. THE PROPOSED FUNCTION OF THE PROPOSED ADVANCED ENVIRO-SEPTIC TREATMENT SYSTEM, THE OWNER SHOULD FOLLOW THE SAME SCHEDULE DURING.

8. REMOVED SHALL BE IN A MANNER WHICH PREVENTS STAGNATION. AWAY FROM THE HOUSE AND THE REMOVED SYSTEM.

9. INSTALLATION OF LOW FLOW PLUMBING FIXTURES IS RECOMMENDED. (60 GAL./MIN. TOILETS & 50 GAL./MIN. FIXTURES)

10. REMOVED FUTURE SHALL BE CONNECTED TO THE EXISTING 1000 GALLON SEPTIC TANK.

11. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014.

12. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)

13. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)

14. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)

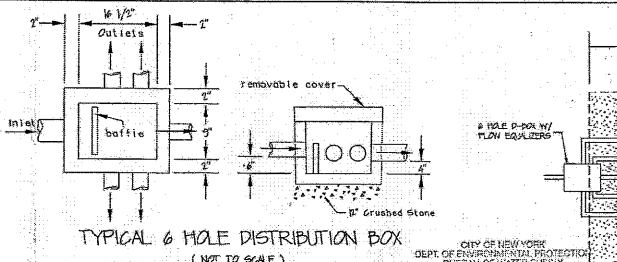
15. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)

16. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)

17. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)

18. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)

19. THE PITS AND PRECIPITATION TRENCHES CONSTRUCTION NUMBER 2014. (SEE MODIFICATION SUBJECT TO NCEP APPROVAL)



TYPICAL 6 HOLE DISTRIBUTION BOX
(NOT TO SCALE)

DISTRIBUTION BOX NOTES

1. DISTRIBUTION BOX SHOULD BE PROVIDED WITH LOW LEVELERS TO PROVIDE EQUAL DISTRIBUTION OF EFFLUENT TO THE LATERALS.
2. D-PHASE TO BE DESIGNED IN A 4' LAYER OF CRUSHED STONE OR COMPACTED SAND.
3. DISTRIBUTION BOX SHALL BE CONSTRUCTED OF PRECAST CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY SET.
4. ALL OUTLETS SHALL BE MADE WATER-TIGHT. THIS INCLUDES ANY UNPAID OUTLET HOLES.
5. VENT PIPES LEAVING FROM THE D-PHASE TO BE CONSTRUCTED OF SOLID PIPE.
6. THE OUTLET OF THE D-PHASE MUST BE SET AT LEAST 18" ABOVE THE LEVEL OF THE ADVANCED ENVIRO-SEPTIC SANDS WITH THE CORRECTING PIPE SLATE NOT LESS THAN 18" (APPROXIMATELY 1/8" PER FOOT).

APPROVED

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

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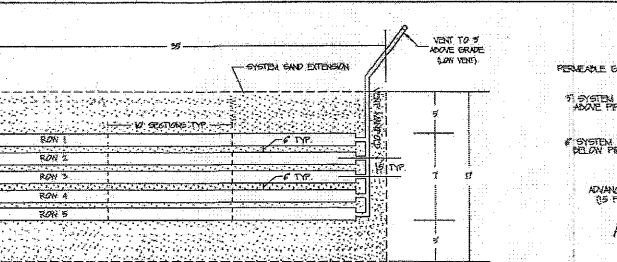
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ADVANCED ENVIRO-SEPTIC TREATMENT SYSTEM
D-PHASE DISTRIBUTION CONCENTRATION (LEVEL BED)

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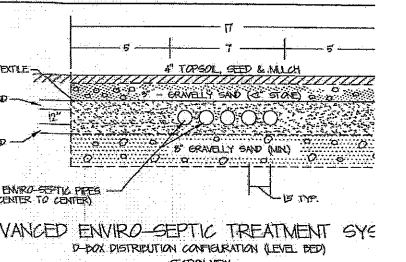
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ADVANCED ENVIRO-SEPTIC TREATMENT SYSTEM
D-PHASE DISTRIBUTION CONCENTRATION (LEVEL BED)

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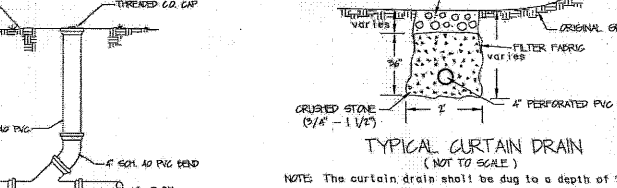
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TYPICAL CURTAIN DRAIN
(NOT TO SCALE)

NOTES: The curtain drain shall be dug to a depth of 36" min.

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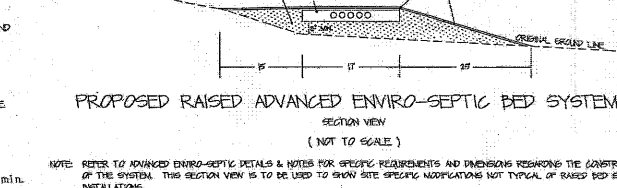
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PROPOSED RAISED ADVANCED ENVIRO-SEPTIC BED SYSTEM
(NOT TO SCALE)

NOTE: REFER TO ADVANCED ENVIRO-SEPTIC DETAILS & NOTES FOR SPECIFIC REQUIREMENTS AND DIMENSIONS REGARDING THE CONSTRUCTION OF THE SYSTEM. THIS SECTION VIEW IS TO BE USED TO SHOW SITE SPECIFIC MODIFICATIONS NOT TYPICAL OF RAISED BED SYSTEM INSTALLATIONS.

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Lisa Light Additional Cost Over \$30,000:

Address: 1661 Sanford Hollow Rd., New Kingston, NY 12459

Town: Middletown

Bedrooms: 3

Engineer: Headwaters Engineering

Contractor: LaFever Excavating

Sign In Date: 3/17/25

Design Application Received By DEP: 2/27/26

Design Application Deemed Complete: 3/12/26

Date Recommended for DEP Design Approval: 4/2/26

2-Year Deadline: 3/17/27

This project was previously approved for \$6,095.24 in 2025 for a 1,000-gallon septic tank. Most of the major components include one siphon chamber, 38 l.f. of gravity pipe, one distribution box, 375 c.y. of absorption fill material, 225 l.f. of absorption trench, 115 l.f. of curtain drain, 95 l.f. of curtain drain outlet pipe, bucket material, and site restoration. The homeowner received three quotes. They were \$52,580.00, \$52,960.00, and \$56,300.00. The low quote is within 10% of our estimated cost for construction. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$52,580.00 for a total project cost of \$58,675.24.

Cost Estimate

Homeowner: Lisa Light
SBL #: 219-2-45
Designer: Ben Dates
Completed By: Mitch Hull
Date: 5/7/2026

2026 Schedule of Values

Enter Values in Blue Shaded Cells

Item #		Units	Quantity	Unit Cost	Cost
1	Septic Tank				
	1,000 Gallon Tank With System	EA	0	\$4,917.79	\$0.00
	1,250 Gallon Tank With System	EA	0	\$5,371.95	\$0.00
	1/500 Gallon Tank With System	EA	0	\$5,822.91	\$0.00
2	Pump Chamber	EA	0	\$10,657.61	\$0.00
3	Syphon Chamber	EA	1	\$4,837.05	\$4,837.05
4	Gravity Piping 4" PVC	LF	38	\$13.36	\$507.68
5	Force Main 2"PVC	LF	0	\$11.36	\$0.00
6	D-Box	EA	1	\$879.97	\$879.97
7	Absorption Fill Material	CY	375	\$28.85	\$10,818.75
8	Random Fill Material	CY	0	\$24.10	\$0.00
9	1 Hr. Haul Time	CY	375	\$15.75	\$5,906.25
10	Effluent Filter	EA	0	\$100.00	\$0.00
11	Conventional Absorption Bed	SF	0	\$6.25	\$0.00
12	Absorption Trench	LF	225	\$15.76	\$3,546.00
13	Eljen Units (Trench Systems)	SF	0	\$24.44	\$0.00
14	NYSDOT C-33 Sand (Trench)	CY	0	\$48.23	\$0.00
15	Eljen Units (Bed Systems)	SF	0	\$24.44	\$0.00
16	NYSDOT C-33 Sand (Bed)	CY	0	\$48.23	\$0.00
17	Presby Systems Pipe	LF	0	\$30.77	\$0.00
18	NYSDOT C-33 Sand (Presby)	CY	0	\$48.23	\$0.00
19	Vent Pipe	LF	0	\$11.52	\$0.00
19	Curtain Drain (36" Avg. Depth)	LF	115	\$21.10	\$2,426.50
20	Curtain Drain Outlet Pipe	LF	95	\$11.52	\$1,094.40
21	Swale	LF	0	\$7.39	\$0.00
22	Topsoil, Seed & Mulch	SF	11000	\$1.04	\$11,440.00
23	4" Clean Out	EA	0	\$185.00	\$0.00
24	Silt Fence	LF	0	\$3.73	\$0.00
25	Riser, First Foot & Lid	EA	0	\$184.00	\$0.00
26	Additional Riser Section	EA	0	\$98.00	\$0.00
27	Access Road	LF	0	\$20.70	\$0.00
29	pump existing tank		1	\$450.00	\$450.00
30	Bucket material over bridge		40	\$160.00	\$6,400.00
31			0	\$0.00	\$0.00
32			0	\$0.00	\$0.00
33			0	\$0.00	\$0.00
				TOTAL	\$48,306.60
				ADD 10%	\$53,137.26

NYC DEP APPROVAL*

SCHEMATIC FOR CONSTRUCTION

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

SUBJECT TO SPECIFIED CONDITIONS IN
TERMINATION DATED: 04/03/2026

O: Lisa Light
B/L: 219-2-45
C: Delaware
APPROVED BY: [Signature]
APPROVAL EXPIRATION DATE: 04/03/2028
UNLESS CONSTRUCTION IS COMPLETED.

SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS

SYSTEM COMPONENTS	WATER SUPPLY WELL		TO STREAM, LAKE, WATERCOURSE, OR WETLAND		DWELLING		PROPERTY LINE	
	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)	REQUIRED (FT)	DESIGN (FT)
HOUSE SEWER	50	25	25	100	5	5	10	95
SEPTIC TANK	50	66	50	150	10	24	10	111
EFFLUENT LINE	50	50	50	100	10	24	10	121
DISTRIBUTION BOX	100	124	100	160	20	54	10	144
ABSORPTION FIELD	100	100	100	100	25	31	10	100

SSTS CONSTRUCTION QUANTITIES*

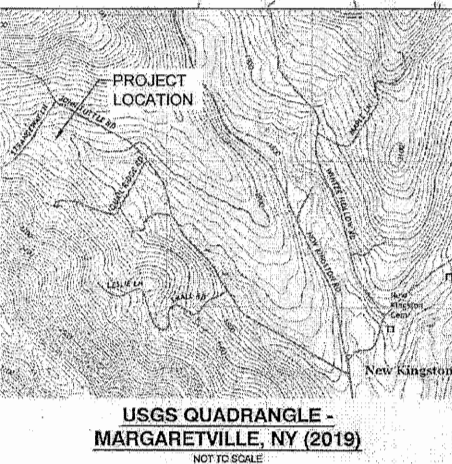
ENGINEER'S ESTIMATE. CONTRACTOR TO BE RESPONSIBLE FOR OWN TAKE-OFFS AND FINAL QUANTITIES FOR CNG PROPOSAL.

SYSTEM COMPONENT	QUANTITY	UNIT
7-OUTLET PRE-CAST CONCRETE DISTRIBUTION BOX W/ SPEED LEVELERS	1	EA
100-GAL DOSE CHAMBER W/ FLOOT	1	EA
4-IN DIAM. SDR35 EFFLUENT LINE	40	LF
ABSORPTION FILL (5-15 MIN./IN. PERC. RATE)	375	CY
TOPSOIL	50	CY
ABSORPTION TRENCH (4-IN DIAM. SDR35 PERC. PIPE IN CRUSHED STONE TRENCH)	225	LF
4-IN DIAM. PERC. SDR35 PIPE CURTAIN DRAIN	115	LF
4-IN DIAM. SOLID SDR35 CURTAIN DRAIN OUTLET W/ ANIMAL GUARD	95	LF

NYC ENVIRONMENTAL PROTECTION
RECEIVED

MAR 31 2026

REP



NRCS SOIL GROUPS				
SOIL GROUP NAME	SOIL GROUP ID	HYDROLOGIC SOIL GROUP	HYDRIC SOIL RATING	NATURAL DRAINAGE CLASS
Onondaga claystone siltstone, 8 to 15% slopes	QaG	D	No	Somewhat poorly drained

NOTE:
THIS SSTS REPLACEMENT PROJECT IS PART OF THE CATSKILL WATERSHED CORPORATION'S RESIDENTIAL SEPTIC REHABILITATION AND REPLACEMENT PROGRAM. THE PROGRAM REIMBURSES PERMANENT RESIDENTS LIVING IN THE WEST-OF-HUDSON NEW YORK CITY WATERSHED 100% OF ELIGIBLE COSTS OF DESIGNING AND REPAIRING/REPLACING A FAILED SEPTIC SYSTEM THAT PREDATES NOVEMBER 2, 1992.

LEGEND

- EXISTING CONTOUR, MAJOR
- EXISTING CONTOUR, MINOR
- PROPERTY LINE
- OVERHEAD UTILITY LINE
- SOIL TYPE BOUNDARY

GENERAL NOTES

1. PARCEL LINES SHOWN ON DRAWINGS WERE OBTAINED FROM THE DELAWARE COUNTY GIS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PARCEL BOUNDARY LINES SHOWN ARE CONSISTENT WITH THE ACTUAL PROPERTY BOUNDARY AND THAT THE PROPOSED ABSORPTION FIELD AND ASSOCIATED COMPONENTS ARE NOT ON A NEIGHBORING PARCEL.
2. CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING SITE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS. CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, THE PROJECT ENGINEER BENJAMIN DATES, P.E., AND THE NYC DEP (646) 382-7456 A MINIMUM OF TWO DAYS PRIOR TO THE START OF CONSTRUCTION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY THE LOCATION OF UNDERGROUND UTILITIES AND LOCATE ANY POTENTIAL OBSTACLES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE HOMEOWNER TO DELIVER ANY PRIVATE UTILITIES, IF ANY.
5. IF A SMALL ANCHOR CEMENT DRAIN IS PROPOSED ABOVE THE NEW ABSORPTION FIELD, CONTRACTOR TO INSTALL THEM BEFORE CONSTRUCTING THE ABSORPTION FIELD.
6. PRIOR TO PLACEMENT OF FILL FOR THE ABSORPTION FIELD, CONTRACTOR TO NEARLY ENTIRE SURFACE AREA, REMOVE ROCKS, TREES OR OTHER APPROPRIATE METHOD. CONTRACTOR SHALL BE RESPONSIBLE THAT THE PLACED FILL IS DIRECTLY PLACED TO PERMANENTLY SOLID. CONTRACTOR SHALL ENSURE THAT EXISTING GRASS/LEAF LITTER DOES NOT INHIBIT INFILTRATION THROUGH THE PLACED FILL AND INTO THE USABLE BOX OF SITE.
7. ALL AREAS OF DISTURBANCE SHALL BE STABILIZED WITH SEED AND MULCH FOLLOWING CONSTRUCTION COMPLETION.
8. THE SEPTIC SYSTEM MUST BE INSTALLED IN THE VICINITY AS SHOWN ON THESE PLANS. THE PROJECT ENGINEER AND THE NYC DEP MUST BE CONSULTED AND CONSULTED PRIOR TO ANY SIGNIFICANT CHANGES.
9. CONFIRM ALL UTILITIES WITH PROJECT ENGINEER DURING CONSTRUCTION.

OVERALL PLAN

SCALE: 1" = 20' AT FULL SIZE PLOT, 20'X30'
SCALE: 1" = 40' AT HALF SIZE PLOT, 11"X17"
HORIZONTAL SCALE IN FEET
1" = 20'



NOTE TO CONTRACTORS:

REVIEW EXISTING DRIVEWAY CULVERT AT STREAM CROSSING. IN ORDER TO CONSTRUCT THIS REPLACEMENT, CONTRACTOR MAY NEED TO CROSS EXISTING STRUCTURE OR INSTALL TEMPORARY SPAN. EXISTING CROSSING MAY NOT SUPPORT LOADED CONSTRUCTION EQUIPMENT.

SOIL TEST RESULTS

TEST PIT ID	SLOPE THROUGH TEST PIT (%)	DEPTH OF TEST PIT (IN)	DEPTH TO BOUNDARY CONDITION (IN)	BOUNDARY CONDITION / LIMITING STRATA LAYER	ROOT DEPTH (IN)	USABLE SOIL DEPTH (IN)	PERCOLATION TEST HOLE DEPTH (IN)	PERCOLATION RATE (MIN./IN.)
TP1	12	20	54	FRAGILE, NOTING	18	14	12	1.1" 2.1" 3.2" 5.2" 5.2" 5.2"

1. DEEP TEST PIT ANALYSIS AND PERCOLATION TESTS PERFORMED ON 4/23/26 BY BENJAMIN DATES, P.E. AND WITNESSED BY J. CHAI, NYC DEP WEATHER DURING ANALYSIS: 57°F AND RAIN.
2. NRCS SOIL TYPE BOUNDARY LOCATED AT TEST PIT LOCATION. ONCE A CHANNERY SILT/CLAY. SOIL ENCOUNTERED DURING TEST PIT INVESTIGATIONS WAS SILTY CLAY.

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PROJECT
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PROJECT
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PRO
LATITUDE &
42.22812 N.



1025 Hob
South Kortr
cell: 312
email: bdaies

REVI
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Drawing Date
NOTES: Unauthorised alter
drawings is a violation
Education Law 5804



Project Number
MD-030
Sheets: 1 of 1

C01

Steven Mancinelli Additional Cost:

Address: 1460 Wittenberg Rd., Mt. Tremper, NY 12457

Town: Shandaken

Engineer: Rex Sanford P.E.

Contractor: Sam I Am Excavation and Tree Service

This project was previously approved for \$73,010.94. Several weeks after completing the sewage system, the homeowner contacted the design engineer and contractor regarding excess water around the septic tank. It was determined that ground water was seeping out of the bank above the tank area. To prevent infiltration into the septic tank, the contractor was instructed to install a 60 l.f. curtain drain upslope of the tank area and direct the water away from the area. The contractor has requested \$3,225.00 for the added work. This amount appears to be reasonable and justified. Therefore, we are requesting that the Septic Committee recommend to the Board of Directors that they accept this reimbursement request of \$3,225.00 for a total project cost of \$76,235.94.

Cynthia Davis Second Time Repair: The property is located in the Town of Hamden, SBL: 254-1-12. This project was paid for in 1999 under our Coordinator Program. While pumping out the septic tank the septage hauler discovered there was a hole in the tank and it was taking on ground water. The pump has also failed, and the junction box needs to be replaced and possibly other pump components. The homeowner had a maintenance pump out done in 2026.

John Klein Second Time Repair: The property is located in the Town of Wawarsing, SBL: 58.3-1-16.100. This project was paid for in 2009 under our Priority 1B Program. There is sewage surfacing in the leach field and the system needs to be replaced. The homeowner had maintenance pump outs done in 2016 and 2026.

Romaine Lamaze Second Time Repair: The property is located in the Town of Woodstock, SBL: 15.3-1-6. This project was paid for in 2005 under our Priority 4 Program. Upon inspection we discovered that the force main between the pump chamber and dbx was broken and needs to be replaced. Also one lateral in the field is not accepting effluent so exploratory work needs to be done to figure out why. The pump chamber also needs risers added for maintenance. The homeowner had maintenance pump outs done in 2018, 2021 and 2024.

Toufie Mazzawy Second Time Repair: The property is located in the Town of Olive in the managed area of Shokan, SBL: 37.18-1-47. This project was paid for in 2007 under our Priority 1A Program. The pump is not working. The homeowner had the pump and fittings replaced and the system is working again. The homeowner had maintenance pump outs done in 2012, 2016, 2023, and 2026.

Gerald Ulaj Second Time Repair: The property is located in the Town of Neversink, SBL: 31.18-1-47. This project was paid for in 2006 under our Priority 4 Program. The leach field is no longer working, and sewage is leaking out of the dbx. The homeowner had maintenance pump outs done in 2017 and 2021.

Alan White Second Time Repair: The property is located in the Town of Halcott, SBL: 173.00-1-2. This project was paid for in 2006 under our Priority 4 Program. The pump needed to be repaired, and the work has been completed. Now sewage is surfacing out past the pump chamber. We believe the force main is broken and needs to be replaced. The homeowner had maintenance pump outs done in 2013, 2020 and 2025. Discussion:

Septic Maintenance: Mitchell Hull will update the committee.

Septic Cluster: No Report

Septic Update: Mitchell Hull will address the latest Septic Update.

Other: