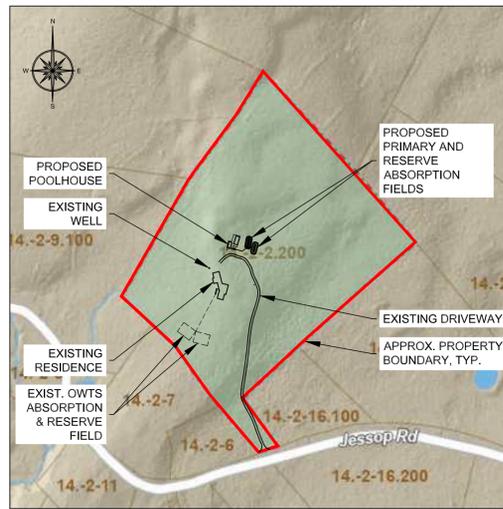
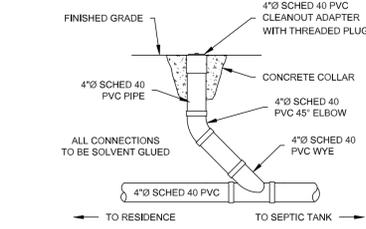


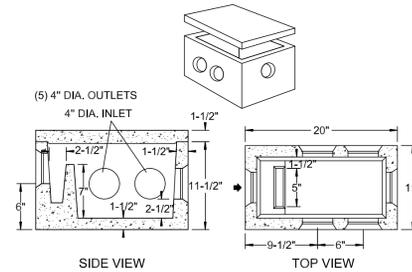
USGS TOPOGRAPHY MAP  
N.T.S.



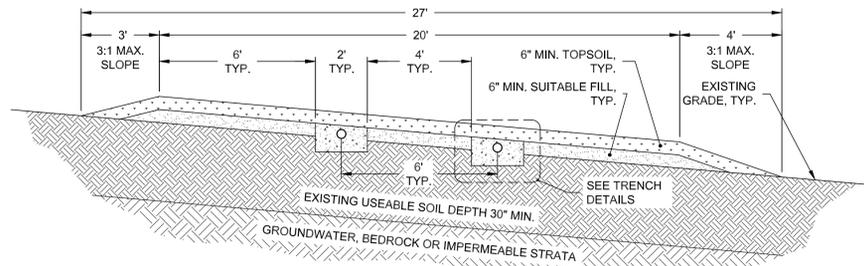
TAX PARCEL MAP  
N.T.S.



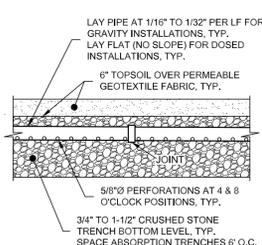
SEWER LINE CLEANOUT DETAIL  
N.T.S.



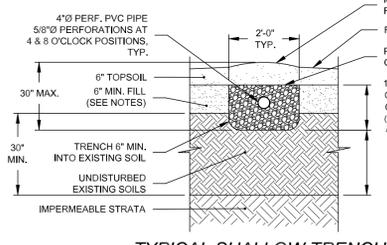
5 OUTLET PRECAST CONCRETE  
DISTRIBUTION BOX DETAIL  
N.T.S.



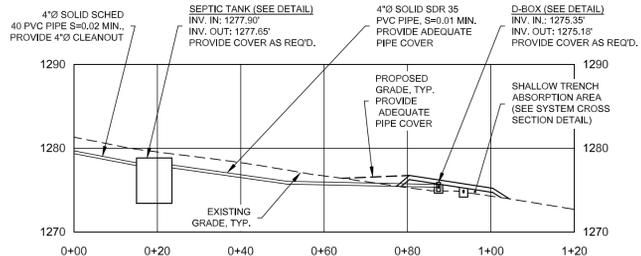
SHALLOW TRENCH SYSTEM CROSS SECTION  
N.T.S.



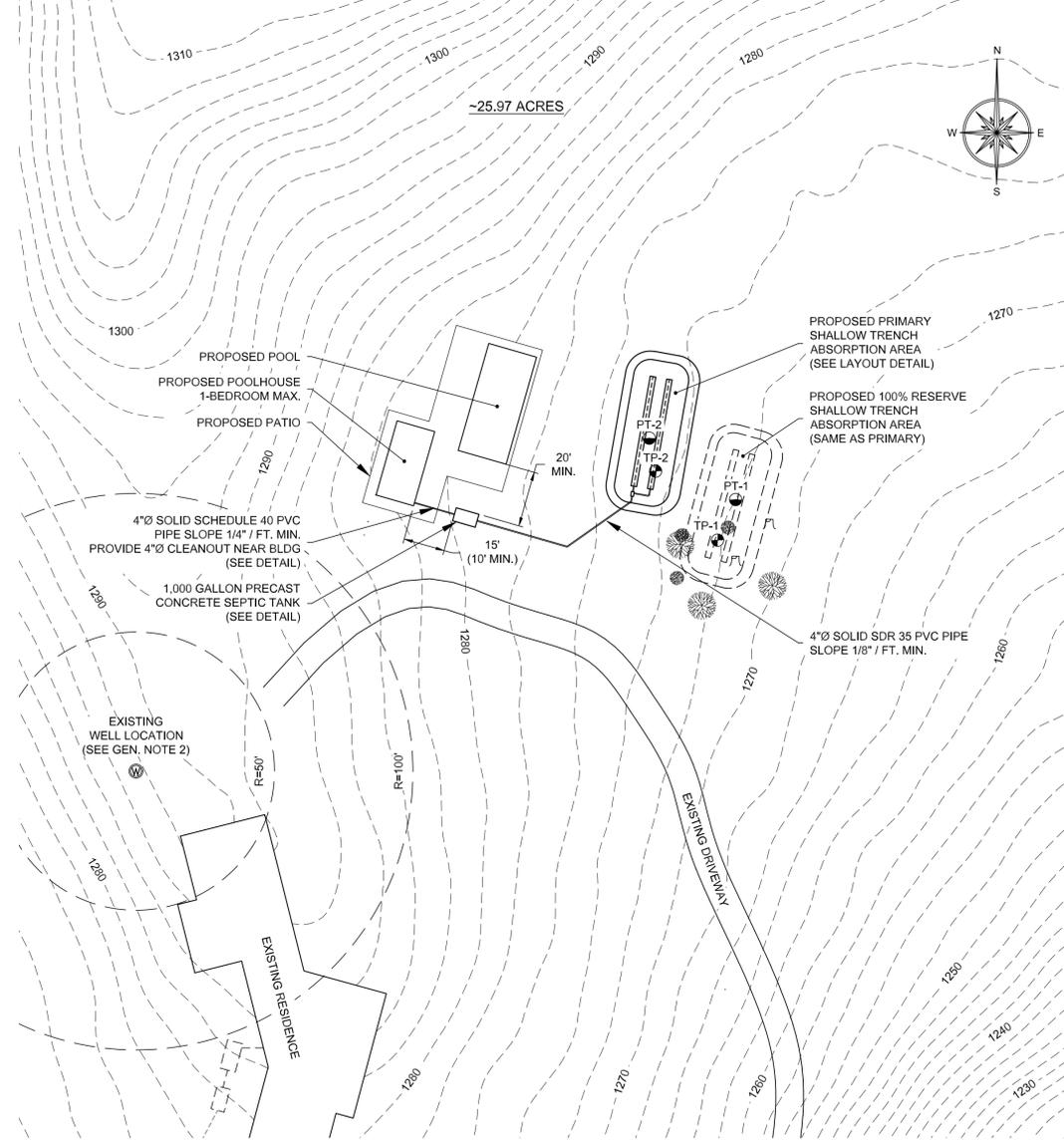
TYPICAL TRENCH PROFILE  
N.T.S.



TYPICAL SHALLOW TRENCH  
CROSS SECTION  
N.T.S.



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



SITE PLAN  
Scale: 1" = 30'



LEGEND

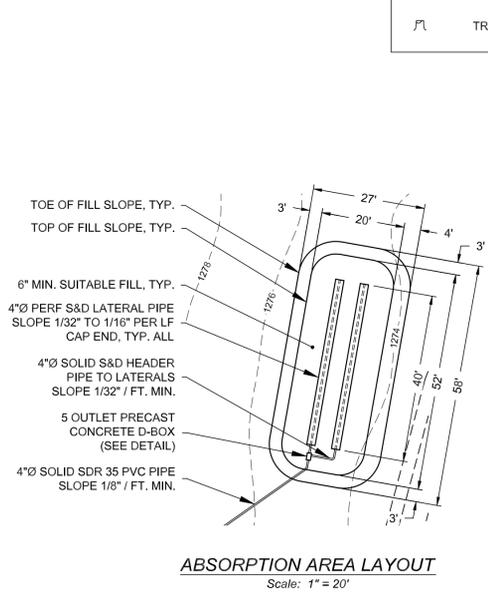
- GENERAL NOTES:**
1. THE PROPOSED ABSORPTION AND RESERVE ABSORPTION AREAS AS SHOWN IS LOCATED AT LEAST 100' FROM ANY SPRING, RESERVOIR, BROOK, MARSH, WATERCOURSE, NYSDEC WETLAND, OR ANY PERMANENT BODY OF WATER.
  2. THERE ARE NO EXISTING WELLS WITHIN 100' (200' IF IN THE DIRECT LINE OF DRAINAGE) FROM THE PROPOSED ABSORPTION AND RESERVE ABSORPTION AREAS.
  3. NO GRADING SHALL OCCUR IN ANY PORTION OF THE PROPOSED ABSORPTION OR RESERVE ABSORPTION AREAS UNLESS SPECIFICALLY SHOWN ON ULSTER COUNTY HEALTH DEPARTMENT (UCHD) AND NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYCDEP) APPROVED PLANS.
  4. FINAL GRADING SHALL DIRECT SURFACE WATER AWAY FROM THE PROPOSED ABSORPTION AND RESERVE ABSORPTION AREAS.
  5. HEAVY EQUIPMENT SHALL BE KEPT OFF THE PROPOSED ABSORPTION OR RESERVE ABSORPTION AREAS EXCEPT AS NEEDED FOR THE OWTS CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THIS AREA BEFORE, DURING OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING CONSTRUCTION SO AS TO AVOID ANY UNDUE SOIL COMPACTION OR DISTURBANCE IN THIS AREA.
  6. TOPSOIL SHALL NOT BE STRIPPED FROM ANY PORTION OF THE PROPOSED ABSORPTION OR RESERVE ABSORPTION AREAS.
  7. NO BUILDINGS OR PARTS OF BUILDINGS, SWIMMING POOLS, DRIVEWAYS, ROADWAYS, PARKING AREAS, OR OTHER AREAS SUBJECT TO HEAVY LOADING SHALL BE CONSTRUCTED OVER ANY PORTION OF THE OWTS OR RESERVE ABSORPTION AREAS.
  8. ALL TREES, STUMPS, BRUSH, WEEDS, ETC. SHALL BE CUT AT GRADE AND REMOVED FROM THE PROPOSED ABSORPTION AREA. ALL LEAVES, LIMBS, AND BOULDERS ABOVE GRADE SHALL BE CAREFULLY REMOVED.
  9. CONSTRUCTION OF THE PROPOSED ABSORPTION AREA SHALL NOT OCCUR WHILE IMPORTED MATERIALS OR ON-SITE SOILS ARE SATURATED OR FROZEN.
  10. NO ROOF, FOOTING, CELLAR, GARAGE FLOOR DRAINS, OR SURFACE WATER DRAINAGE SHALL BE DISCHARGED INTO THE OWTS.
  11. NO SEWAGE PUMP, GARBAGE GRINDER, WATER SOFTENER BACKWASH, OR HOT TUB/SPA WASTES SHALL BE DISCHARGED INTO THE OWTS WITHOUT SPECIFIC DESIGN APPROVED BY UCHD AND NYCDEP AS SHOWN ON THESE PLANS.
  12. ALL CONSTRUCTION SHALL CONFORM WITH 10 NYCRR APPENDIX 75-A, NYSDOH "RESIDENTIAL ON-SITE WASTEWATER TREATMENT SYSTEMS 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).
  13. FINAL INSTALLATION TO BE CERTIFIED BY THE SUPERVISING ENGINEER.
  14. THE SEPTIC TANK SHOULD BE INSPECTED AND CLEANED BY A NYS LICENSED SEPTIC HANDLER EVERY 2-3 YEARS TO PREVENT PREMATURE SYSTEM FAILURE.
  15. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO LOCATE ALL UTILITIES IN THE WORK AREA PRIOR TO DIGGING.
  16. IF CONDITIONS ENCOUNTERED IN THE FIELD ARE NOT CONSISTENT WITH THESE PLANS THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONSULT WITH THE DESIGN ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION.

- SHALLOW TRENCH ABSORPTION SYSTEM NOTES:**
1. FILL MATERIAL SHALL NOT BE PLACED WHEN UNDERLYING SOILS ARE SATURATED OR FROZEN.
  2. ON SLOPED SITES, A DIVERSION DITCH, BERM OR CURTAIN DRAIN SHALL BE CONSTRUCTED UPHILL FROM THE FILL TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL.
  3. TOPSOIL SHALL NOT BE STRIPPED FROM ANY PORTION OF THE ABSORPTION AREAS.
  4. SITE SOILS SHALL NOT BE DISTURBED PRIOR TO PLACEMENT OF FILL.
  5. ABSORPTION TRENCHES SHALL BE INSTALLED PARALLEL TO EXISTING CONTOURS.
  6. SMOEARED ABSORPTION TRENCH SIDEWALLS AND BOTTOMS SHALL BE HAND RAKED IMMEDIATELY PRIOR TO PLACEMENT OF TRENCH AGGREGATE.
  7. BOTTOM OF ABSORPTION TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL.
  8. MAXIMUM DEPTH OF USABLE FILL PLUS SIX INCHES OF TOPSOIL SHALL NOT EXCEED THIRTY INCHES.
  9. FILL MATERIAL SHALL HAVE A PERMEABILITY SIMILAR TO BUT NOT MORE PERMEABLE THAN THE UNDERLYING IN SITU USABLE SOIL.
  10. DOWNSTREAM ENDS OF ALL DISTRIBUTOR LATERALS SHALL BE CAPPED.

PLAN NOTE: THIS IS NOT A SURVEY MAP  
PLANIMETRIC DATA OBTAINED FROM A SURVEY MAP TITLED "MAP OF TOPOGRAPHY OF DRIVEWAY FOR PHILIP AND MARINE ARMSTRONG" PREPARED BY DONALD BREWER, PLS (LIC# 48003) DATED 2-15-2024 AND ADDITIONAL GNSS FIELD MEASUREMENTS. TOPOGRAPHIC DATA OBTAINED FROM NYS LIDAR DATABASE. PARCEL BOUNDARIES AS SHOWN ARE BASED ON FOREMENTIONED SOURCES AND FIELD EVIDENCE. THE ENGINEER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF SAID SOURCES OR BOUNDARIES.



1,000 GALLON PRECAST CONCRETE  
SEPTIC TANK DETAIL  
N.T.S.



ABSORPTION AREA LAYOUT  
Scale: 1" = 20'

**DESIGN BASIS\*:**  
PROPOSED USE = 1 BEDROOM RESIDENCE / POOLHOUSE  
DESIGN FLOW = (1 BEDROOMS)(110 GPD/BEDROOM) = 110 GPD  
SEPTIC TANK VOLUME REQUIRED = 1,000 GALLONS  
SEPTIC TANK VOLUME PROVIDED = 1,000 GALLONS

**PRIMARY SYSTEM (SHALLOW TRENCH SYSTEM):**  
MEASURED IN-SITU STABILIZED PERCOLATION RATE = 8 MIN./INCH  
  
TRENCH LENGTH CALCULATION:  
SEWAGE APPLICATION RATE = 0.90 GPD/SF  
ABSORPTION AREA REQUIRED = 110 GPD / 0.90 GPD/SF = 123 SF  
TRENCH LENGTH REQUIRED = 123 SF / 2' WIDE TRENCHES = 62 LF  
TRENCH LENGTH PROVIDED = 80 LF (2 @ 40 LF ea.)

**RESERVE SYSTEM (SHALLOW TRENCH SYSTEM):**  
MEASURED IN-SITU STABILIZED PERCOLATION RATE = 5 MIN./INCH  
  
TRENCH LENGTH CALCULATION:  
SEWAGE APPLICATION RATE = 1.20 GPD/SF  
ABSORPTION AREA REQUIRED = 110 GPD / 1.20 GPD/SF = 92 SF  
TRENCH LENGTH REQUIRED = 92 SF / 2' WIDE TRENCHES = 46 LF  
TRENCH LENGTH PROVIDED = 80 LF (2 @ 40 LF ea.)

\* = DESIGNED IN ACCORDANCE WITH 10 NYCRR APPENDIX 75-A AND NYSDOH "RESIDENTIAL ON-SITE WASTEWATER TREATMENT SYSTEMS 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)

**SOILS DATA**

TP-1	TEST HOLE #1 SOIL PROFILE (09-04-25) 0'-4" TOPSOIL, 4'-30" SILTY LOAM, HARDPAN AT 30" ROOTS TO 30"; NO MOTTLING, NO GROUNDWATER
TP-2	TEST HOLE #2 SOIL PROFILE (09-04-25) 0'-4" TOPSOIL, 4'-30" SILTY LOAM, HARDPAN AT 30" ROOTS TO 30"; NO MOTTLING, NO GROUNDWATER

**PERC DATA**

PERC HOLE #	PERC HOLE DEPTH	SOIL PROFILE	TEST DATE	PERCOLATION TEST RUNS (MIN)				
				1	2	3	4	5
PT-1	12"	0'-4" TOPSOIL 4'-12" SILTY LM	09-04-25	4	5	5		
PT-2	12"	0'-4" TOPSOIL 4'-12" SILTY LM	09-04-25	5	8	8		

RECEIVED AND APPROVED \_\_\_\_\_ DATE OF APPROVAL \_\_\_\_\_

FOR THE ULSTER COUNTY HEALTH DEPARTMENT

BY \_\_\_\_\_ COMMISSIONER OF PUBLIC HEALTH

RECOMMENDED FOR APPROVAL \_\_\_\_\_

BY \_\_\_\_\_

**Christopher R. DiChiaro, P.E.**  
Civil Engineer  
307 Harry Wells Rd  
Saugerties, NY 12477  
(845) 594-2066  
email: cdichiaro@gmail.com

Project Title:  
**ONSITE WASTEWATER TREATMENT SYSTEM PLAN**  
**ON LANDS OF ARMSTRONG**  
122 JESSOP ROAD -- S.B.L.#: 14.-2-200  
**TOWN OF WOODSTOCK**  
**COUNTY OF ULSTER**

Project Date: DECEMBER 09, 2025

Revision Record:	Date:	Comment:

**PRELIMINARY**  
THIS PLAN IS FOR  
REVIEW & BIDDING  
PURPOSES ONLY  
NOT FOR  
CONSTRUCTION

Unauthorized alteration or addition to a plan bearing a Licensed Engineer's seal is a violation of Section 2209, Subdivision 2, of the New York State Education Law.

Dwg: CRD / JH Chk: CRD

Scale: As Shown

Sheet Title: Onsite Wastewater Treatment System Plan

Sheet Number: C1 of 1