

## RAISED SYSTEM SPECIFICATIONS

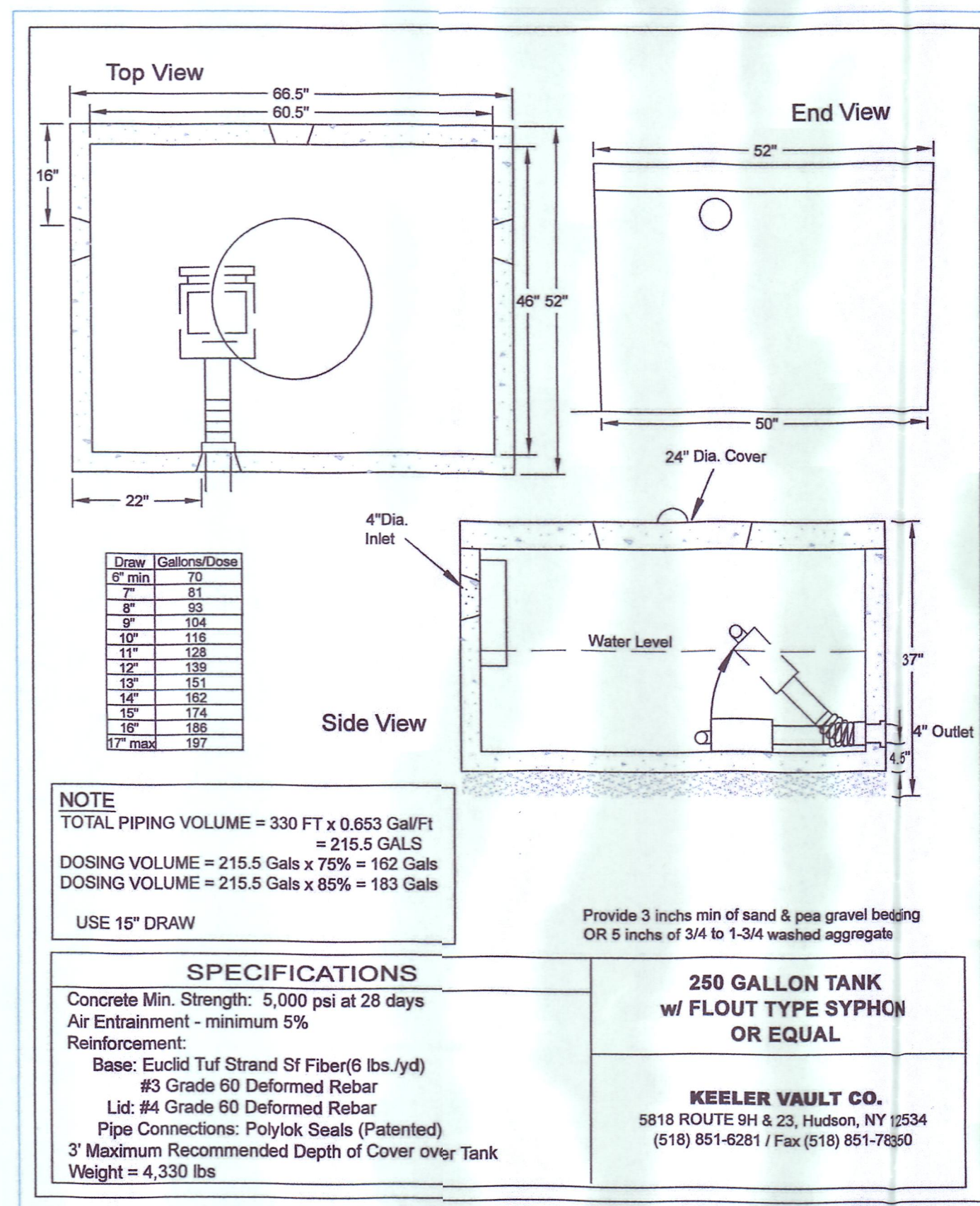
AVERAGE DAILY FLOW FOR A FOUR BEDROOM DWELLING  
@ 110 G.P.D. PER BEDROOM = 4 x 110 G.P.D. = 440 G.P.D.

- BASAL AREA DESIGN  
SITE STABILIZED PERCOLATION RATE = 5 MIN. / INCH  
REQUIRED BASAL AREA = 440 G.P.D./0.2 G.P.D./SQ.FT. = 2200 SQ.FT.  
TOP OF BED DIMENSION = 37' X 60' = 2220 SQ.FT. BASAL AREA

- TRENCHING DESIGN  
PERC RATE OF FILL MATERIAL TO BE BROUGHT IN =  
20 MIN./INCH (MAX) - 5 MIN./INCH (MIN)  
APPLICATION RATE OF FILL = 0.7 G.P.D./SQ.FT.  
REQUIRED ABSORPTION AREA = 440 / 0.7 = 630 SQ.FT.  
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- TOTAL PIPE VOLUME  
330 FT. x 0.653 GALS/FT = 215.5 GALS

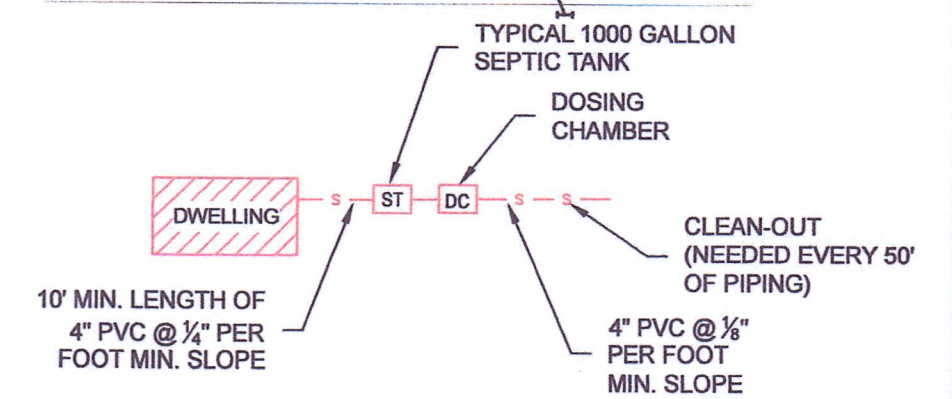
- DOSING VOLUME  
215.5 GALS x 75% = 161.6 GALS  
215.5 GALS x 85% = 183.2 GALS



## RAISED SYSTEM CONSTRUCTION NOTES

- TREES AND BRUSH SHALL BE CUT AT GROUND LEVEL. HEAVY EQUIPMENT SHALL BE KEPT FROM THE FILL AREA. THE RAISED SYSTEM AREA SHALL BE SCARIFIED UNDER THE SUPERVISION OF THE DESIGN ENGINEER.
- SELECT FILL MATERIAL SHALL BE SANDY LOAM AS APPROVED BY THE DESIGN ENGINEER PRIOR TO PLACEMENT. PERCOLATION RATE OF THE FILL MATERIAL SHALL BE BETWEEN 5 AND 20 MIN/INCH AFTER THE FILL MATERIAL HAS BEEN PLACED AND ALLOWED TO SETTLE NATURALLY FOR SIX MONTHS, INCLUDING ONE FREEZE/THAW CYCLE. FILL SHALL NOT BE PLACED WHEN UNDERLYING SOILS ARE SATURATED OR FROZEN.
- THE PERCOLATION TEST IS TO BE CERTIFIED BY THE DESIGN ENGINEER PRIOR TO INSTALLATION OF LEACHING TRENCHES.
- THE FILL SHALL BE PLACED TO SUFFICIENT DEPTH TO MAINTAIN 2 FOOT SEPARATION BETWEEN THE BOTTOM OF THE ABSORPTION TRENCHES AND ANY BOUNDARY CONDITION, SUCH AS BEDROCK, GROUNDWATER, CLAY, ETC.
- UPON INSTALLATION OF THE ABSORPTION TRENCHES, THE ENTIRE FILL AREA AND SIDE SLOPES SHALL BE COVERED WITH A SIX-INCH LAYER OF TOPSOIL AND SEEDED.
- THE TOP SURFACE OF THE FILL SHALL BE SLIGHTLY SLOPED TO FACILITATE DRAINAGE. THE EDGES OF THE FILL SECTION SHALL BE TAPERED AT A SLOPE NO GREATER THAN ONE VERTICAL TO THREE HORIZONTAL. ALL DRAINAGE RUNOFF SHALL BE DIVERTED AWAY FROM THE DISPOSAL.
- NO ROOF, CELLAR, OR FOOTING DRAINS ARE TO DISCHARGE INTO THE SEWAGE DISPOSAL SYSTEM.
- NO DRIVEWAY, ROADWAY, OR PARKING AREA SHALL BE CONSTRUCTED OVER ANY PORTION OF THE SEWAGE DISPOSAL SYSTEM.
- NO COMPONENT PART OF ANY SEWAGE DISPOSAL SYSTEM SHALL BE LOCATED OR MAINTAINED WITHIN 100 FEET FROM ANY WELL, SPRING, RESERVOIR, BROOK, MARSH, OR OTHER BODY OF WATER.
- ALL SOLID SEWER LINES SHALL BE SDR 35 OR EQUAL, UNLESS OTHERWISE NOTED.
- ALL CONCRETE CHAMBERS TO BE LEVELED ON A BED OF PEA GRAVEL OR SAND
- TANK ACCESS COVERS AND MANHOLE COVERS SHALL BE WITHIN 12 INCHES OF FINAL GRADE TO PERMIT INSPECTION AND MAINTENANCE. WHEN THE TOP OF A SEPTIC TANK OR DISTRIBUTION BOX IS MORE THAN 12 INCHES BELOW FINAL GRADE, WATERTIGHT EXTENSION COLLARS SHALL BE USED TO BRING ACCESS COVERS AND MANHOLE COVERS WITHIN 12 INCHES OF FINAL GRADE.

## RESERVE SEPTIC DETAIL



## MAP REVISION DATES

DATE	REVISION	BY

## RESERVE DETAILS

FOR  
**NICOLAS ATKINS**  
TOWN OF MARLBORO  
ULSTER COUNTY - NEW YORK

OCTOBER 15, 2024

**MEDENBACH, EGGERS & CARR**  
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