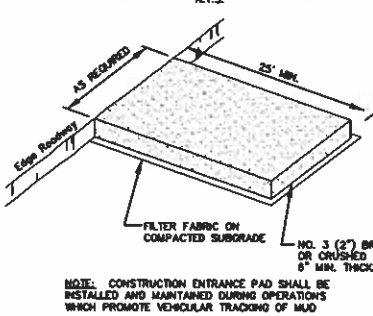
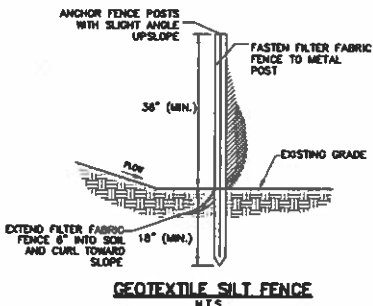


GENERAL NOTES

1. SUR CONSULTING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
2. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN'S REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818 AND ADDENDUMS.
3. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE EXECUTION OF THE WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR DETERMINATION.
5. ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, AND CABLE ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
6. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
7. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION HAS BEEN ESTABLISHED.
8. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITEE.
9. SUBSURFACE SEWAGE DISPOSAL SYSTEM AREA TO BE STAKED OUT AND MARKED TO PREVENT DISTURBANCE FROM OTHER CONSTRUCTION ACTIVITIES.
10. BASED UPON AVAILABLE INFORMATION THERE ARE NO SEPTIC SYSTEMS OR WATER SUPPLY WELLS WITHIN THE REQUIRED SEPARATION DISTANCES OF THE PROPOSED LEACHING SYSTEM.
11. ENGINEER TO STAKE LOCATION OF SEPTIC SYSTEM WITH ELEVATIONS FOR BOTTOM OF LEACHING GALLERIES AND SET BENCH MARK IN AREA OF SYSTEM.
12. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" TOPSOIL, AND BE SEED WITH GRASS OR SOO, AS SHOWN ON THE PLANS.

SURVEY NOTES

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THROUGH 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE ADOPTED "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENFORCED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS AN IMPROVEMENT LOCATION SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2.
2. NORTH BASED UPON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD 1983) ESTABLISHED BY G.P.S.
3. INFORMATION REGARDING THE LOCATION OF EXISTING UNDERGROUND UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG" 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLAN SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS.
 - A. "SUBDIVISION MAP ORCHARD VIEW SUBDIVISION, WEISE ROAD AND ACADEMY ROAD, CHESHIRE, CONNECTICUT," PREPARED BY SUR CONSULTING, SCALE 1"=80' SHEET 1 OF 1, DATED: OCTOBER 14, 2020 REVISED TO 3/23/21
 - B. CURRENT ZONING DISTRICT = R-40 RESIDENTIAL



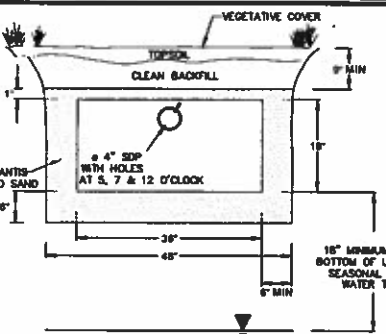
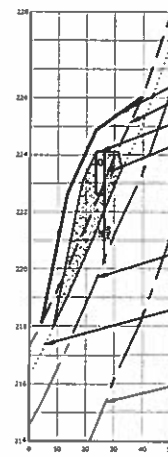
NOTE: CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD

SELECT FILL MATERIAL:
SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPOSED OF CLEAN SAND, OR SAND AND GRAVEL, FREE OF ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:

1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCH SIEVE.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN RE-SIEVED AND THE SIEVE ANALYSIS STARTED.
4. THE RE-SIEVED SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING
#4	55-100
#10	25-100
#20	10-100
#40	5-100
#60	0-100
#100	0-100
#200	0-100

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

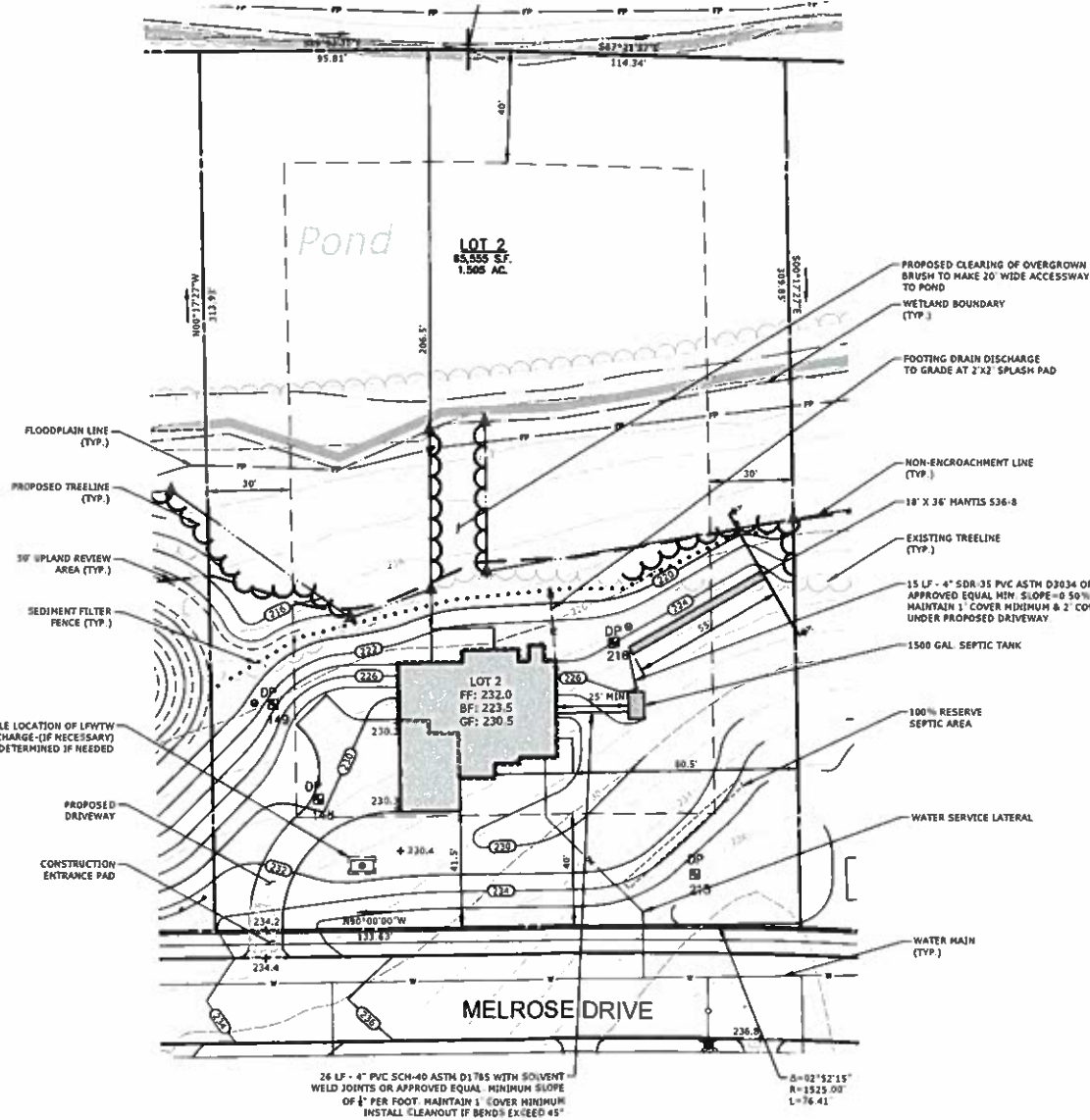
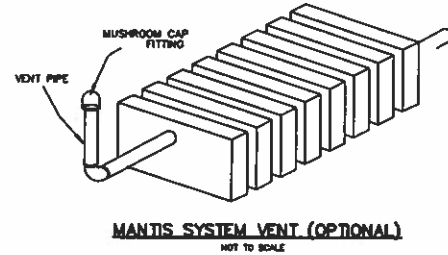
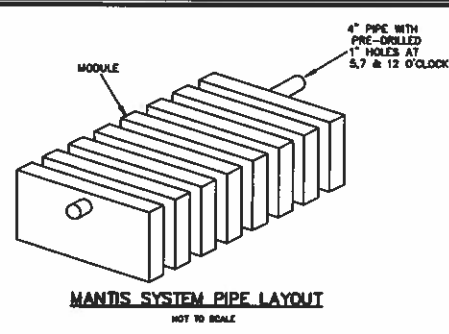


NOTE: VENTING REQUIRED WHEN MORE THAN 18\"/>

MANTIS SYSTEM SAND FILL CROSS SECTION
NOT TO SCALE

ASTM C-33 WASHED CONCRETE SAND MATERIAL:

SIEVE SIZE	PERCENT PASSING
#4	100
#10	100
#20	100
#40	100
#60	100
#100	100
#200	100



SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS REVISED JANUARY 2018.

FLOW: 4 BEDROOMS
PERC RATE: 1.1-10.0 MIN/INCH
EFFECTIVE AREA REQUIRED = 577.5 SQ.FT.

RESTRICTIVE LAYER = 33\"/>

USE 1 ROW - 55 LF OF 18\"/>

SEPTIC TANK SIZING:

4 BEDROOM HOUSE = 1250 = 1250 GAL.

100-200 GAL. TUB = +250 GAL.

200 GAL. TUB OR MORE = +500 GAL.

GARBAGE CRUSHER = +250 GAL.

LOT 2:

REQUIRED = 1250

PROPOSED = 1500 GAL.

* NO LARGE TUB PROPOSED

* NO GARBAGE CRUSHER

SEPTIC SYSTEM INVERT ELEVATIONS:

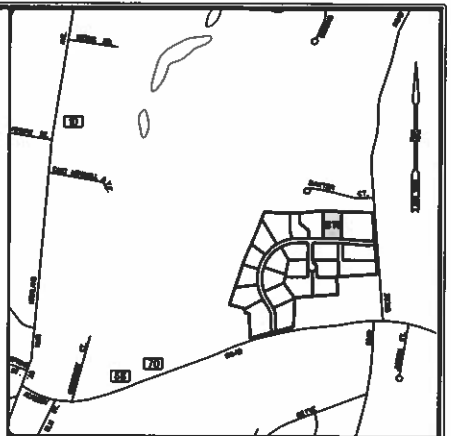
FOUNDATION WALL = 224.6

SEPTIC TANK INLET = 224.0

SEPTIC TANK OUTLET = 223.75

ROW 1 INVERT ELEVATION = 223.6

ROW 1 BOTTOM ELEVATION = 222.9



LEGEND

WETLAND	MONUMENT TO BE SET
100' UPLAND REVIEW	IRON PIN/PIPE
WATERCOURSE	CONCRETE MONUMENT
PROPERTY LINE	DRAINAGE MANHOLE
EASEMENT	ELECTRIC MANHOLE
EXISTING CONTOUR	WATER VALVE
PROPOSED CONTOUR	GAS VALVE
SEDIMENT FILTER FENCE	HYDRANT
BUILDING SETBACK LINE	LIGHT POST
EXISTING STONE WALL	UTILITY POLE
EXISTING TREELINE	GRADE TO DRAIN
DRAINAGE PIPING	TP TEST PIT
EXISTING FENCE	PT PERCOLATION TEST
PROPOSED LIMIT OF CLEARING	

TEST PIT #148
0' - 15\"/>

TEST PIT #149
0' - 7\"/>

PERC: 149
DEPTH: 25'
RATE: 10.1-20.0 MIN/IN

TEST PIT #215
0' - 9\"/>

TEST PIT #216
0' - 12\"/>

PERC: 216
DEPTH: 22'
RATE: 1.1-10.0 MIN/IN

ZONING DATA

ZONE R-40	REQUIRED/PERMITTED	PROPOSED
MIN. LOT AREA	48,000 SQ.FT.	85,555 SQ.FT.
MIN. LOT WIDTH	200'	210'
MIN. LOT FRONTAGE	50'	210'
FRONT SETBACK	40'	41.5'
SIDE SETBACK	30'	80.5'
REAR SETBACK	40'	208.5'
MAX. LOT COVERAGE	10%	4.53%
MAX. HEIGHT MAIN BUILDING	40'	30.5'

99 REALTY DRIVE
CHESHIRE, CONNECTICUT 06410
T: 203.271.1773
www.slrconsulting.com

IMPROVEMENT LOCATION SURVEY

PLAN OF PROPOSED IMPROVEMENTS
LOT 2 "ORCHARD VIEW SUBDIVISION"
WEISE ROAD AND ACADEMY ROAD
CHESHIRE, CONNECTICUT

SCALE: 1"=30' DATE: JULY 12, 2021 JOB: 14897.00014

DESIGNED: RJM DRAWN: KJG CHECKED: RMGS SHEET: 1 OF 1

ENGINEER'S CERTIFICATION
THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM CONFORMS TO APPLICABLE HEALTH CODES AND CURRENT DESIGN PRACTICE. NO OTHER WARRANTY IS GIVEN OR IMPLIED.

RYAN J. MCEVOY CONN. P.E. 25786

