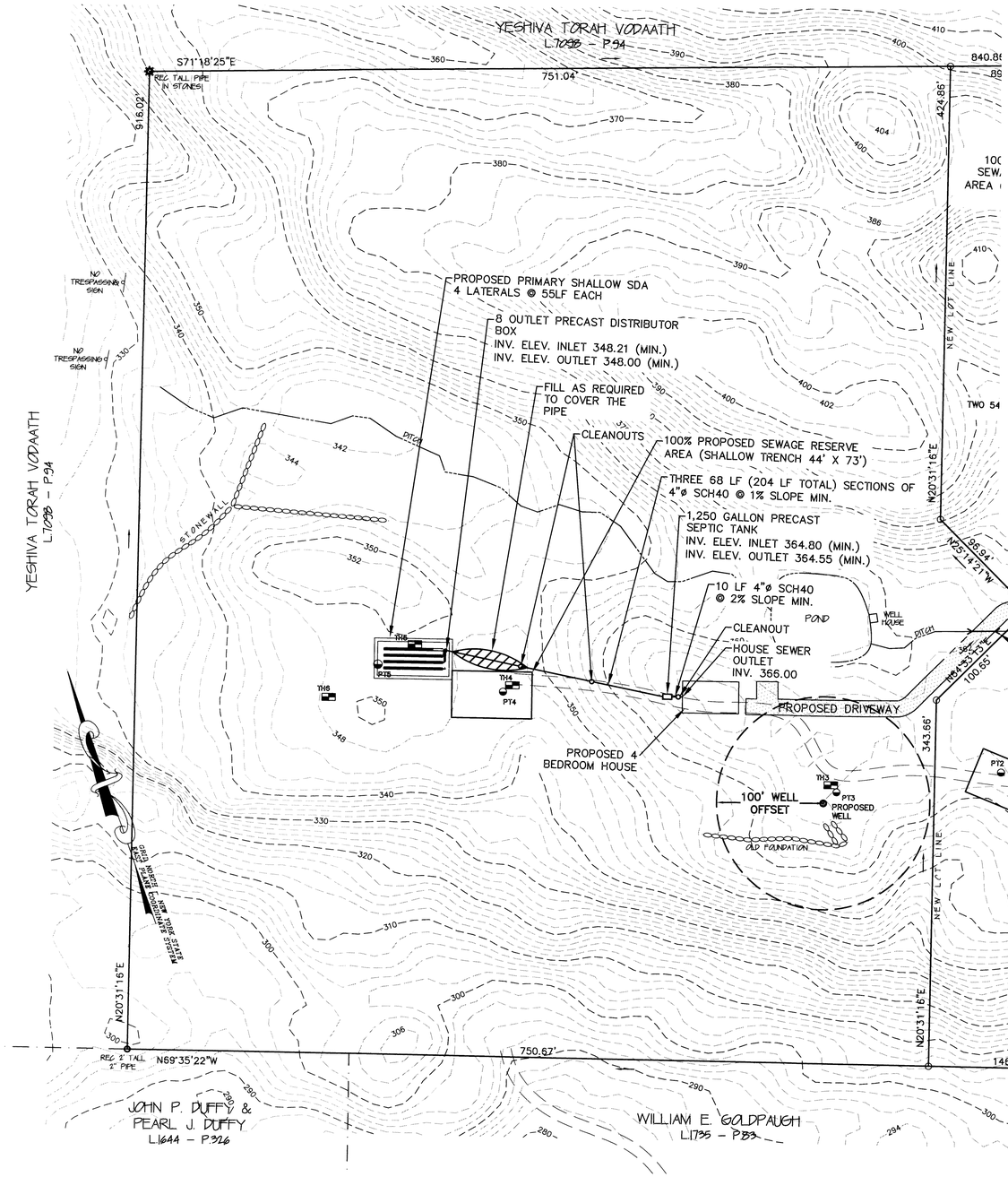
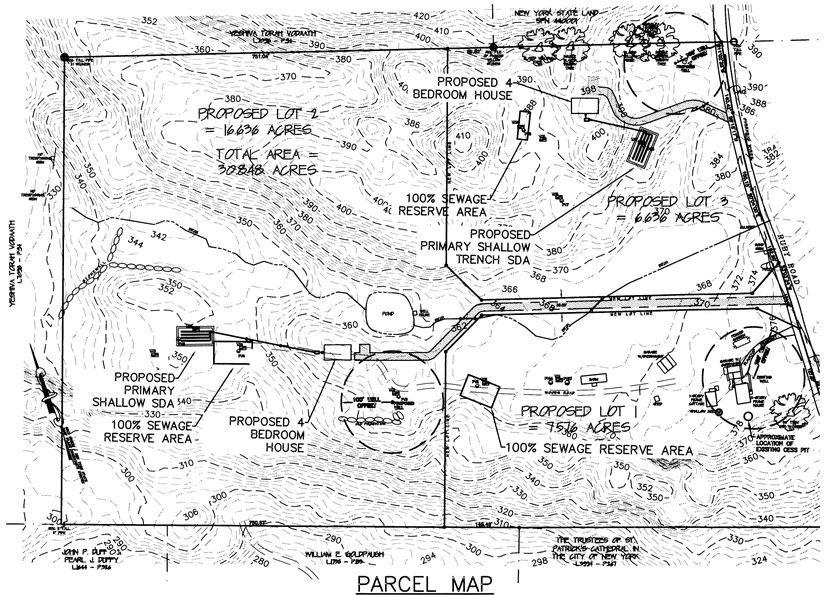


PROPOSED SDS LOT 2

SCALE: 1" = 60'

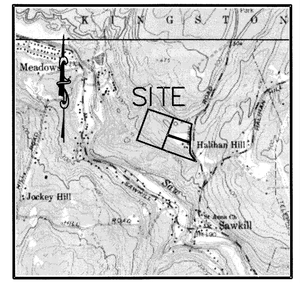
0 60 120 Feet



PARCEL MAP

SCALE: 1" = 140'

0 140 280 Feet



LOCATION MAP

SCALE: 1" = 2,000'

NOTE:
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

LICENSED LAND SURVEYOR
CHRISTOPHER J. TILL
49879
STATE OF NEW YORK

LICENSED PROFESSIONAL ENGINEER
KENNETH M. LARIOS
058741
STATE OF NEW YORK

Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

Dig Safely. New York. Call 811 before you dig

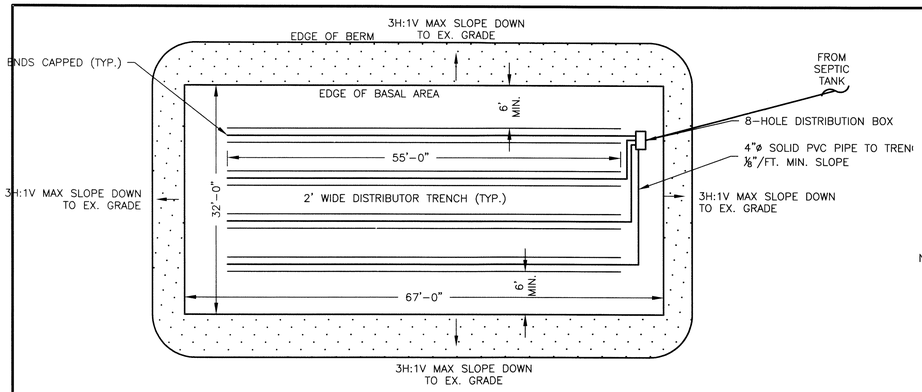
SEPTIC DESIGN FOR LOT 2
MOSSL FAMILY TRUST
(BARBARA CLAUNCH)

TOWN OF KINGSTON ULSTER COUNTY NEW YORK

DATE	REVISION RECORD

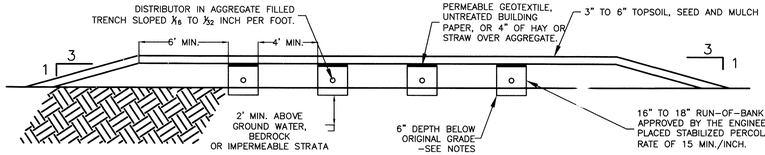
BRINNIER & LARIOS, P.C.
ENGINEERS & LAND SURVEYORS
67 MAIDEN LANE KINGSTON, N.Y.
Phone: 845-338-7622 Fax: 845-338-7880

SCALE	DATE	SHEET NO.
1" = 50'	JUNE 2026	1 OF 2
	DWG MSN / CHK AMD	



INITIAL SEWAGE DISPOSAL SYSTEM PLAN

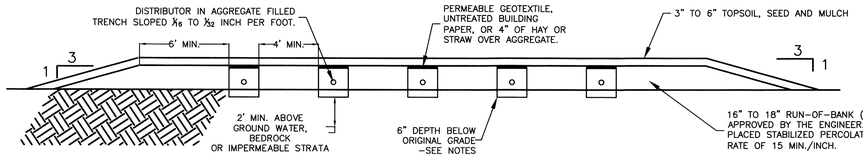
NOT TO SCALE



INTIAL SEWAGE DISPOSAL SHALLOW TRENCH SYSTEM

NOT TO SCALE

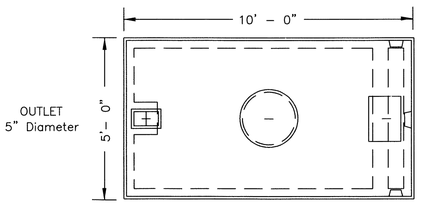
NOTES:
1. REMOVE EXISTING GROUND COVER AT BASE OF TRENCH PRIOR TO STONE PLACEMENT.
2. A MINIMUM DEPTH OF 2'-0" MUST BE MAINTAINED FROM BOTTOM OF TRENCH TO TOP OF GROUNDWATER OR BEDROCK.



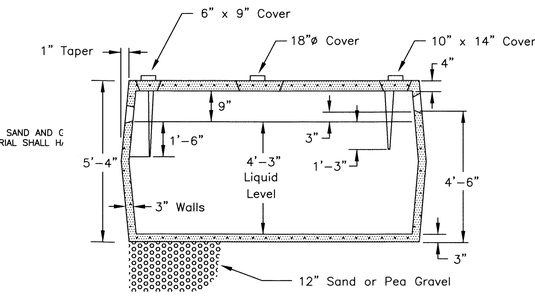
RESERVE SEWAGE DISPOSAL SYSTEM TYPICAL SECTION

NOT TO SCALE

NOTES:
1. REMOVE EXISTING GROUND COVER AT BASE OF TRENCH PRIOR TO STONE PLACEMENT.
2. A MINIMUM DEPTH OF 2'-0" MUST BE MAINTAINED FROM BOTTOM OF TRENCH TO TOP OF GROUNDWATER OR BEDROCK.



Plan View



Cross Section View

PROPOSED 1,250 GAL. SEPTIC TANK DETAIL (TYPICAL)

Not To Scale

Specifications

- Concrete Minimum Strength – 3,500 P.S.I. @ 28 Days
- Steel Reinforcement – 6"x6"x10 ga. steel wire mesh
- Construction Joint – Sealed with 3/4" Butyl
- Distribution Box by Miron Precast, Inc., or equal.
- Septic Tank to be Placed on 12" Gravel Bed

Design Basis Mossl Family Trust LOT 2 (Barbara Claunch)

Sewage System Design Basis (Shallow Trench System)

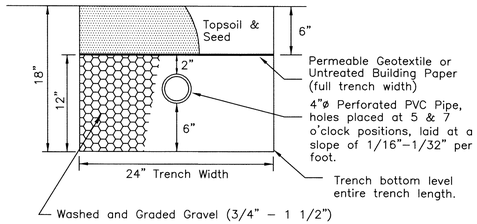
Proposed Use = 4 Bedroom House
Unit Flow = 110 GPD/Bedroom[1]
Design Flow = (4 Br.) (110 GPD/Br.) = 440 GPD

"Initial Shallow Trench System"
Percolation Rate of Existing Site Soils = 7 Min./Inch
Percolation Rate of Stabilized Fill Material = 7 Min./Inch
Maximum Application Rate @ 7 Min./Inch = 1.0 GPD/SF
Absorptive Area Required = (440 GPD)/(1.0 GPD/SF) = 440 SF
Trench Length Required (2' Wide Trench) = 440 SF/2 = 220 LF
Trench Length Provided = 220 LF (4 Laterals @ 55 LF Each)
Combined Initial and Reserve System Footprint: 38 FT X 73 FT

"Sewage Reserve Area Shallow Trench System"
Percolation Rate of Existing Site Soils = 11 Min./Inch
Percolation Rate of Stabilized Fill Material = 11 Min./Inch
Maximum Application Rate @ 11 Min./Inch = 0.8 GPD/SF
Absorptive Area Required = (440 GPD)/(0.8GPD/SF) = 550 SF
Trench Length Required (2' Wide Trench) = 550 SF/2 = 275 LF
Trench Length Provided = 275 LF (5 Laterals @ 55 LF Each)
Combined Initial and Reserve System Footprint: 44 FT X 73 FT

Septic Tank Volume Required/Provided = 1,250 Gallons

Notes
[1] From Table 1 of NYSDOH "Residential Wastewater Treatment Systems Design Handbook"



DETAIL OF DISTRIBUTOR TRENCH

Not To Scale

DEEP TEST HOLE DATA – Mossl Family Trust (Lot 2 - Barbara Claunch)

HOLE NUMBER	ITEM DEPTH	ITEM DESCRIPTION
TEST HOLE NO. 3	0'-0" – 0'-9"	TOPSOIL
	0'-9" – 2'-6"	SANDY GRAVEL LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 2'-6"	
TEST HOLE NO. 4	0'-0" – 0'-10"	TOPSOIL
	0'-10" – 3'-6"	SANDY GRAVEL LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 3'-6"	
TEST HOLE NO. 5	0'-0" – 1'-5"	TOPSOIL
	1'-5" – 2'-6"	SANDY GRAVEL LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 2-6"	
TEST HOLE NO. 6	0'-0" – 1'-0"	TOPSOIL
	1'-0" – 3'-4"	SANDY LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 3'-4"	

PERCOLATION TEST HOLE DATA - Mossl Family Trust (Barbara Claunch)

HOLE NUMBER	DEPTH	DESCRIPTION	STABILIZED PERCOLATION RATE
PERCOLATION TEST NO. 3	12"	SANDY LOAM	5 MINUTES/INCH
PERCOLATION TEST NO. 4	12"	SANDY LOAM	11 MINUTES/INCH
PERCOLATION TEST NO. 5	12"	SANDY LOAM	7 MINUTES/INCH

DEEP TEST HOLE DATA

HOLE NUMBER	ITEM DEPTH	ITEM DESCRIPTION
TEST HOLE NO. 1	0'-0" – 0'-6"	TOP SOIL
	0'-6" – 3'-0"	SANDY LOAM
	NO GROUNDWATER, BEDROCK 3'-0", NO MOTTLING	
TEST HOLE NO. 2	0'-0" – 0'-6"	TOP SOIL
	0'-6" – 3'-6"	SANDY LOAM
	NO GROUNDWATER, BEDROCK 3'-6", NO MOTTLING	

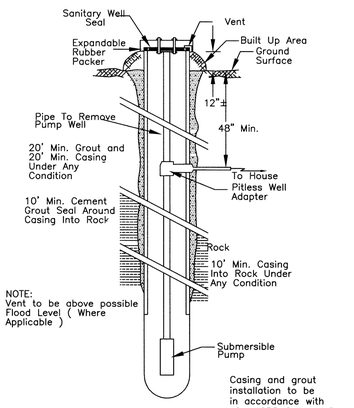
PERCOLATION TEST HOLE DATA

HOLE NUMBER	DEPTH	DESCRIPTION	STABILIZED PERCOLATION RATE
PERCOLATION TEST NO. 1A	1'-0"	SANDY LOAM	7 MINUTES/INCH
PERCOLATION TEST NO. 1B	1'-0"	SANDY LOAM	11 MINUTES/INCH
PERCOLATION TEST NO. 2	1'-0"	SANDY LOAM	8 MINUTES/INCH

MINIMUM SETBACK REQUIREMENTS

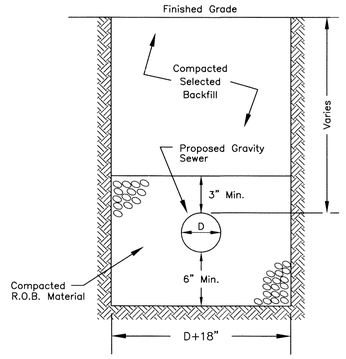
SYSTEM COMPONENT	WELL	STREAM OR WATERCOURSE	DWELLING	PROPERTY LINE	DRAINAGE DITCH
*HOUSE SEWER	25'	25'	3'	10'	–
SEPTIC TANK	50'	50'	10'	10'	10'
LINE TO DIST BOX	50'	50'	10'	10'	10'
ABSORPTION FIELD	100'	100'	20'	10'	20'

*CAST IRON OR PVC WITH O-RING JOINTS



WELL DETAIL

Not To Scale



GRAVITY SEWER LINE TRENCH DETAIL

Not To Scale

NOTES

1. LOCATIONS OF TEST HOLES AND PERCOLATION HOLES ARE APPROXIMATE.
2. ALL FIXTURES TO BE LOW FLOW FIXTURES (MAX. 1.6 GALLON FLUSH TOILETS, MAX. 3 GALLON/MINUTE FAUCETS AND SHOWER HEADS).
3. THE PROPOSED RESIDENCE WILL NOT BE CONSTRUCTED WITH A GARBAGE GRINDER AS THE SEWAGE DISPOSAL SYSTEM IS NOT DESIGNED FOR THE USE OF A GARABAGE GRINDER.

NOTES FOR SEWAGE DISPOSAL SYSTEM

1. NO ROOF, CELLAR OR FOOTING DRAINS SHALL BE DISCHARGED INTO THE SEWAGE DISPOSAL SYSTEM.
2. ALL TREES AND SHRUBS IN THE PROPOSED SDA SHALL BE CUT AT GRADE, AND DISPOSED OF AS DIRECTED BY THE OWNER.
3. NO DRIVEWAYS, ROADWAYS OR PARKING AREAS SHALL BE CONSTRUCTED OVER ANY PORTION OF THE SEWAGE DISPOSAL SYSTEM.
4. ALL TRENCHES TO BE INSTALLED PARALLEL TO SLOPE.
5. REPRESENTATIVE SAMPLES OF FILL MATERIAL. FOR SHALLOW TRENCH SYSTEM SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT AT THE SITE (ALSO SEE NOTE 6 BELOW).
6. PERCOLATION TEST RESULTS OF THE FILL MATERIAL AT THE BANK AND AT THE SITE SHALL BE USED TO ASSURE THAT THE PERMEABILITY OF THE FILL MATERIAL IS COMPATIBLE WITH THE IN-SITU SOIL PERMEABILITY.
7. PRE-CAST CONCRETE STRUCTURES BY WOODARD'S CONCRETE PRODUCTS, INC. (SEPTIC TANK), LHV PRECAST (D-BOX), OR EQUAL.
8. NO BASEMENT FIXTURES SHALL BE PERMITTED WITHOUT SPECIAL SEWAGE DESIGN.
9. RE-SEAL ALL PIPE PENETRATIONS THROUGH CONCRETE STRUCTURES WITH NON-SHRINK GROUT (I.E., SEPTIC TANK, D-BOX)
10. THE ENGINEER WILL CERTIFY AS BUILT CONSTRUCTION IN ACCORDANCE WITH THIS PLAN TO THE UCDOH.

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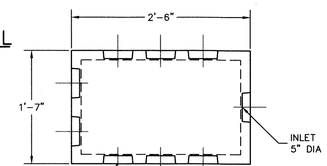

NOTES:
1. INLET AND OUTLETS ARE KNOCKOUTS.
2. WEIGHTS:
BOX: 327 LBS
TOP: 100 LBS
3. USE A SCREW DRIVER, KEY OR STICK TO REMOVE KNOCKOUT WEB, DO NOT USE KNIFE IT MAT DAMAGE THE INTEGRITY OF THE SEAL. THE KNOCKOUT WEB SHOULD ONLY BE REMOVED WHEN YOU ARE READY TO INSTALL THE PIPE.

8-WAY DISTRIBUTION BOX DETAIL

Not To Scale

Dig Safely. New York Call 811 before you dig

LICENSED LAND SURVEYOR CHRISTOPHER J. LEU 49529 STATE OF NEW YORK

LICENSED PROFESSIONAL ENGINEER SEWARD M. LARIOS 058747 STATE OF NEW YORK

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DETAILS

SEPTIC DESIGN FOR LOT 2 MOSSL FAMILY TRUST (BARBARA CLAUNCH)

TOWN OF KINGSTON — ULSTER COUNTY — NEW YORK

DATE	REVISION RECORD

BRINNIER & LARIOS, P.C.
ENGINEERS & LAND SURVEYORS
67 MAIDEN LANE KINGSTON, N.Y.
Phone: 845-338-7622 Fax: 845-338-7680

SCALE	DATE	SHEET NO.
N.T.S.	JUNE 2026	2 OF 2
	DWG: MSN CHK: AMD	