YESHIVA TORAH VODAATH
L.709B - P.94

NEW YORK STATE LAND
SPN 440001

89.82'

REC. PILE OF PAINTED YELLOW STONES

BLAZED YELLOW TREE

DOUBLE BLAZED YELLOW TREE

BLAZED YELLOW TREE

DOUBLE BLAZED YELLOW TREE

DOUBLE BLAZED YELLOW TREE

S71°24'49"E

100' WELL OFFSET

PROPOSED WELL

S11°02'28"W

REC. TALL PIPE

140.42'

S6°16'17"W

155.15'

POLE

OVERHEAD WIRES

PROPOSED 4 BEDROOM HOUSE

100% PROPOSED SEWAGE RESERVE AREA (IN-GROUND 20' X 55')

HOUSE SEWER OUTLET INV. 396.50

PROPOSED DRIVEWAY

CLEANOUT

TH10

PT8

TH9

TH7

PT6

10 LF 4"ø SCH40 @ 2% SLOPE MIN.

1,250 GALLON PRECAST SEPTIC TANK
INV. ELEV. INLET 396.30 (MIN.)
INV. ELEV. OUTLET 396.05 (MIN.)

CLEANOUT

TH8

PT7

TWO 54 LF (108 LF TOTAL) SECTIONS OF 4"ø SCH40 @ 1% SLOPE MIN.

8 OUTLET PRECAST DISTRIBUTOR BOX
INV. ELEV. INLET 384.21 (MIN.)
INV. ELEV. OUTLET 384.00 (MIN.)

PROPOSED PRIMARY SHALLOW TRENCH SDA 4 LATERALS @ 55 LF EACH

NEW LOT LINE

N20°31'16"E

424.86'

96.84'

N25°14'21"W

N71°24'49"W

530.83'

30.00'

S71°24'49"E

539.67'

NEW LOT LINE

DITCH

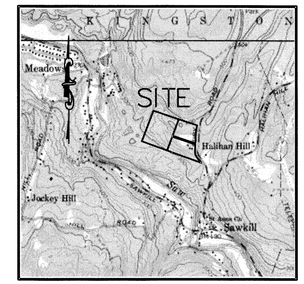
DITCH

GRID NORTH - NEW YORK STATE EAST ZONE COORDINATE SYSTEM

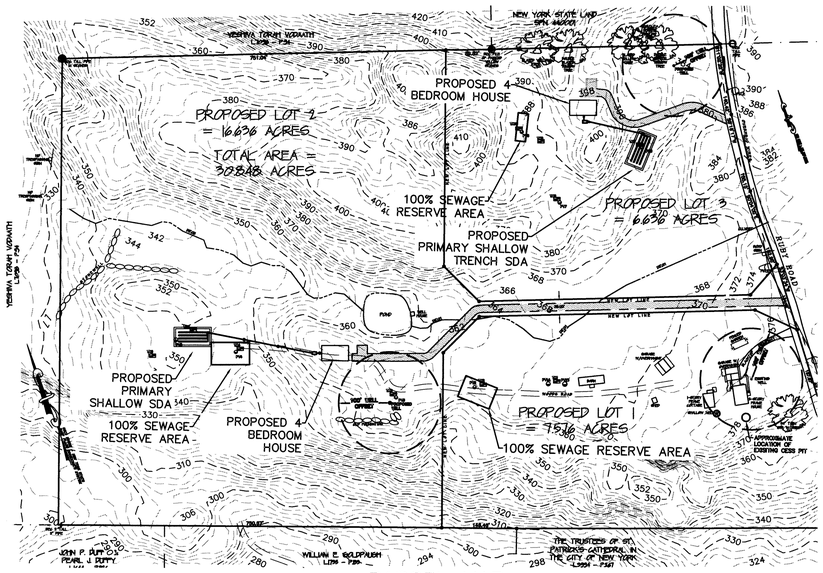
PROPOSED SDS LOT 3

SCALE: 1" = 30'

0 30 60 Feet



LOCATION MAP
SCALE: 1" = 2,000'



PARCEL MAP
SCALE: 1" = 140'
0 140 280 Feet

NOTE:
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Dig Safely. New York
Call 811 before you dig

LICENSED LAND SURVEYOR
CHRISTOPHER J. TILL
49629
STATE OF NEW YORK

LICENSED PROFESSIONAL ENGINEER
DENNIS M. LARIOS
058747
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.

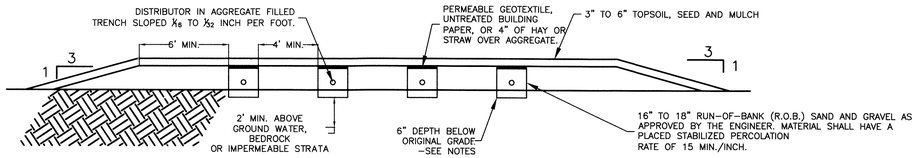
SEPTIC DESIGN FOR LOT 3
MOSSL FAMILY TRUST
(ANDREA NOEL)

TOWN OF KINGSTON — ULSTER COUNTY — NEW YORK

DATE	REVISION RECORD

BRINNIER & LARIOS, P.C.
ENGINEERS & LAND SURVEYORS
67 MAIDEN LANE KINGSTON, N.Y.
Phone: 845-330-7822 Fax: 845-330-7860

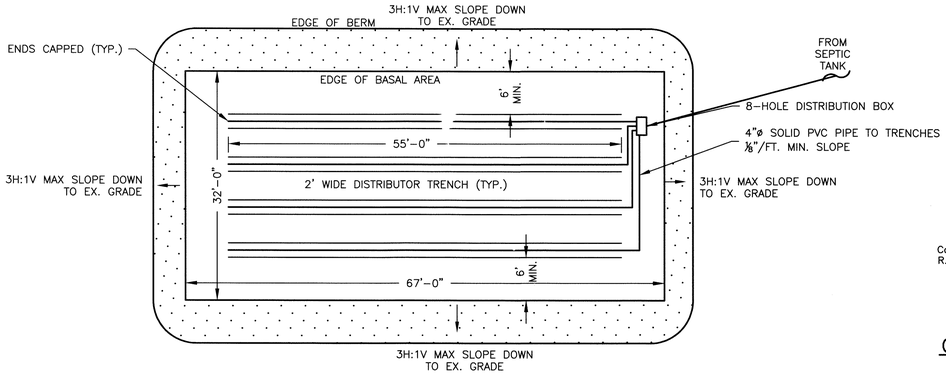
SCALE	DATE	SHEET NO.
1" = 30'	JUNE 2026	1 OF 2
	DWG: MSN CHK: AMD	

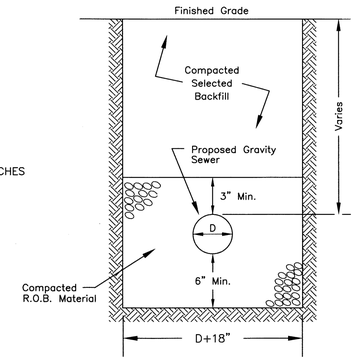


INTIAL SEWAGE DISPOSAL SHALLOW TRENCH SYSTEM

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.



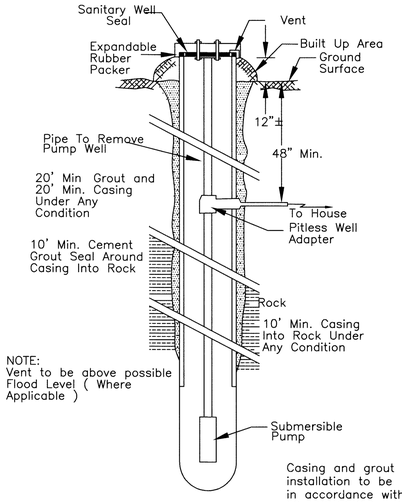


GRAVITY SEWER LINE TRENCH DETAIL

Not To Scale

INITIAL SEWAGE DISPOSAL SYSTEM PLAN

NOT TO SCALE



WELL DETAIL

Not To Scale

Casing and grout installation to be in accordance with 10 NYCRR Subpart 5-1 Public Water Systems, Appendix 5-B Standards for Waterwells, Table 2

Design Basis Mossl family Trust LOT 3 (Andrea M. Noel)

Sewage System Design Basis (Shallow Trench System)

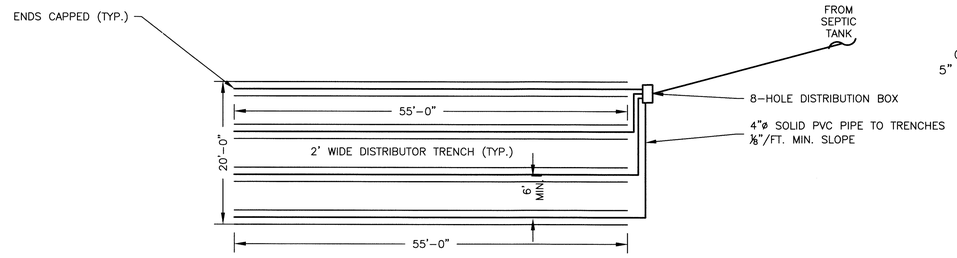
Proposed Use = 4 Bedroom House
Unit Flow = 110 GPD/Bedroom[1]
Design Flow = (4 Br.) (110 GPD/Br.) = 440 GPD

"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 In-Ground 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: 20 FT X 55 FT

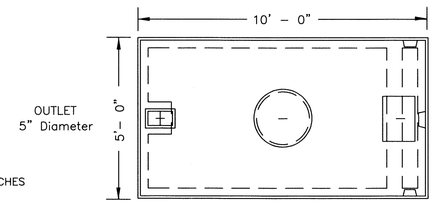
Septic Tank Volume Required/Provided = 1,250 Gallons

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

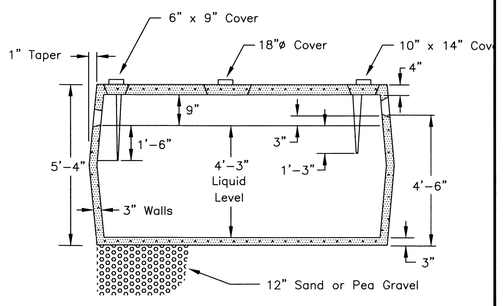


RESERVE SEWAGE DISPOSAL SYSTEM PLAN

NOT TO SCALE



Plan View



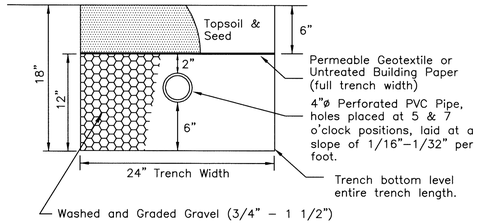
Cross Section View

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

Not To Scale

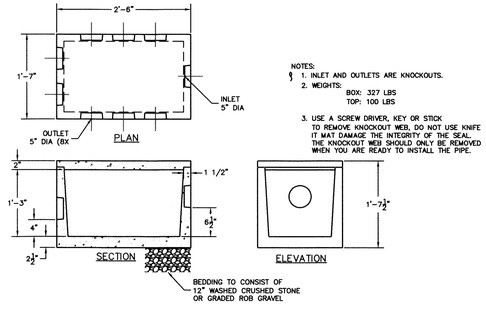
Specifications

- 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



DETAIL OF DISTRIBUTOR TRENCH

Not To Scale



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

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.

DEEP TEST HOLE DATA – Mossl family Trust (Lot 3 - Andrea M. Noel)

HOLE NUMBER	ITEM DEPTH	ITEM DESCRIPTION
TEST HOLE NO. 7	0'-0" – 0'-6"	TOPSOIL
	0'-6" – 3'-4"	SANDY LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 3'-4"	
TEST HOLE NO. 8	0'-0" – 0'-6"	TOP SOIL
	0'-6" – 4'-6"	SANDY LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 4'-6"	
TEST HOLE NO. 9	0'-0" – 0'-6"	TOPSOIL
	0'-6" – 1'-6"	SANDY LOAM
	1'-6" – 4'-0"	CLAY LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 4'-0"	
TEST HOLE NO. 10	0'-0" – 0'-6"	TOPSOIL
	0'-6" – 4'-0"	CLAY LOAM
	NO GOUNDWATER, NO MOTTLING, BEDROCK 4'-0"	

PERCOLATION TEST HOLE DATA - Mossl family Trust (Andrea M. Noel)

HOLE NUMBER	DEPTH	DESCRIPTION	STABILIZED PERCOLATION RATE
PERCOLATION TEST NO. 7	12"	SANDY LOAM	7 MINUTES/INCH
PERCOLATION TEST NO. 8	24"	SANDY LOAM	19 MINUTES/INCH
PERCOLATION TEST NO. 9	24"	SANDY LOAM	7 MINUTES/INCH

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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

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LICENSED LAND SURVEYOR CHRISTOPHER J. TILL 49629 STATE OF NEW YORK

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

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DETAILS

SEPTIC DESIGN FOR LOT 3
MOSSL FAMILY TRUST
(ANDREA NOEL)

TOWN OF KINGSTON | ULSTER COUNTY | NEW YORK

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ENGINEERS & LAND SURVEYORS
67 MAIDEN LANE KINGSTON, N.Y.
Phone: 845-338-7822 Fax: 845-338-7860

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