

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES "MINIMUM STANDARDS OF ACCURACY, CONTENT AND CERTIFICATION FOR SURVEYS AND MAPS", AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON AUGUST 29, 2019. IT IS A LIMITED PROPERTY ZONING LOCATION SURVEY MAP BASED ON A SURVEY CONFORMING TO HORIZONTAL SURVEY ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2. THE INTENT OF THIS MAP IS TO DEPICT THE LOCATION OF THE PROPOSED LOT LINE MODIFICATION SHOWN AND PROPOSED OR EXISTING IMPROVEMENTS SHOWN WITH RESPECT TO THE APPLICABLE MUNICIPAL OR STATUTORY REQUIREMENTS.

3.) PORTIONS OF THE PROPERTIES SHOWN ARE LOCATED IN A FLOOD HAZARD ZONE A PER FIRM FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 090161 0003 A EFFECTIVE FEBRUARY 3, 1982.

4.) RIVER LOCATIONS SHOWN WERE TAKEN FROM MAP REFERENCE 1.

5.) THE PROPERTY IS SHOWN IN AN AREA OF STATE AND FEDERAL LISTED SPECIES ON THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION BUREAU OF NATURAL RESOURCES WILDLIFE DIVISION NATURAL DIVERSITY DATA BASE AREAS MAP FOR THE TOWN OF ANDOVER DATED DECEMBER 2019.

6.) THE TOPOGRAPHY SHOWN WAS TAKEN FROM MAP REFERENCE 2 IS BASED ON NGVD 1929 DATUM AND THE BENCHMARK SHOWN.

7.) PARCEL 2 IS TOGETHER WITH A VARIANCE TO ALLOW FOR THE DEPOSITION OF FILL AND CONSTRUCTION OF A SINGLE FAMILY DWELLING IN THE FLOOD PRONE DISTRICT GRANTED BY THE TOWN OF ANDOVER, CT. ZONING BOARD OF APPEALS ON FEBRUARY 17, 2021.

1.) MAP SHOWING PROPERTY (TO BE CONVEYED TO) STEPHEN E. & LINDA A. WHITMAN (PARCEL #1) AND JOHN E. WHITHAM D.B.A. WHITHAM NURSERY (PARCEL #2) HENDEE ROAD ANDOVER, CONNECTICUT SCALE: 1"=40' MARCH 19, 1985 REV. APRIL 23, 1985 EDWARD J. SULLIVAN 105 TWO BROOK ROAD WETHERSFIELD, CONN. 06109

2.) PLAN PREPARED FOR STEPHEN WHITHAM HENDEE RD. ANDOVER, CT. GENERAL LOCATION SURVEY
SCALE: 1"=20' DATE: 10/13/09 FILE NO. 290036 SHEET 1 OF 1 HOLMES AND HENRY ASSOCIATES LLC.
CONSULTING ENGINEERS LAND SURVEYORS LAND PLANNERS 2179 BOSTON TURNPIKE COVENTRY, CT.
860-742-0340 REVISIONS 11/18/09

3.) PLAN PREPARED FOR BLANCHARD LAND INVESTMENTS LLC 67 HENDEE ROAD ANDOVER, CT. FREE CUT
SUBDIVISION PLAN SCALE: 1"=40' DATE: 9/26/2017 FILE NO. 2017-48 SHEET 1 OF 1 BUSHNELL ASSOCIATES LLC.
CIVIL ENGINEERING AND LAND SURVEYING 563 WOODBRIDGE STREET MANCHESTER, CT. 06042 860-643-7875

4.) MAP OF PART OF THE PROPERTY OF LILLIAN HERON ANDOVER, CONN. SCALE 1"=100' APPROX FILED ON THE TOWN OF ANDOVER LAND RECORDS MAP NO. 298.

CONSTRUCTION NOTES:

1.) OWNER OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

2.) OWNER OR CONTRACTOR TO VERIFY ALL DIMENSIONS AND INFORMATION CONTAINED ON THIS PLAN PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

3.) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY ALL BOUNDARY MARKERS SHALL BE SET BY A LICENSED LAND SURVEYOR.

4.) PRESERVE ANY EXISTING STONE WALLS WHEREVER POSSIBLE

5.) ANY TREES TO BE REMOVED IN THE TOWN RIGHT OF WAY SHALL BE POSTED BY THE TREE WARDEN PRIOR TO REMOVAL.

6.) ALL PROPOSED UTILITIES LOCATIONS SHALL BE APPROVED BY THE LOCAL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.

8.) CLEARING LIMITS SHALL BE FLAGGED BY A SURVEYOR PRIOR TO ANY SITE DISTURBANCE



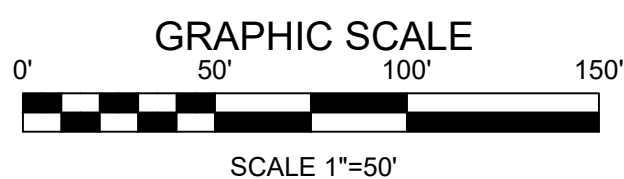
■ EXISTING MERESTONE
 ○ IRON ROD TO BE SET
 ● EXISTING IRON ROD
 (W) PROPOSED WELL

THE WETLAND SOILS ON THIS MAP WERE IDENTIFIED IN THE FIELD USING THE CRITERIA REQUIRED BY CT PA 72-155 AS AMENDED BY PA 73-571 AND ARE ACCURATELY REPRESENTED ON THIS PLAN.

JOHN P. IANNI
CERTIFIED SOIL SCIENTIST

3-19-2021

DATE _____



TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ANDREW F. BUSHNELL P.E. L.S. 24591
THIS MAP IS NOT VALID UNLESS IT BEARS THE EMBOSSED SEAL OF THE LICENSED
LAND SURVEYOR WHOSE REGISTRATION NUMBER AND SIGNATURE APPEAR ABOVE

**SPECIAL PERMIT FOR
FLOOD PRONE DISTRICT
APPROVED
ANDOVER PLANNING & ZONING COMMISSION**

CHAIRPERSON-SECRETARY DATE
SEE P&Z MINUTES OF FOR SPECIFIC
CONDITIONS OF APPROVAL

UTILITIES SHOWN ON THIS MAP WERE DERIVED FROM FIELD LOCATIONS AND EXISTING MAPPING CONTRACTOR TO VERIFY LOCATIONS AND DEPTH IN THE FIELD PRIOR THE START OF ANY CONSTRUCTION. "CALL BEFORE YOU DIG (1-800-922-4455)."

PLAN PREPARED FOR

57 HENDEE ROAD, LLC

HENDEE ROAD ANDOVER, CT

LOT LINE MODIFICATION PLAN

SCALE: 1"=50'	DATE: 5/1/2020	FILE NO. 2019-70	SHEET: 1 OF 3
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BUSHNELL ASSOCIATES LLC

CIVIL ENGINEERING AND LAND SURVEYING

563 WOODBRIDGE STREET MANCHESTER, CT. 06042

860-643-7875

REVISIONS: 5/18/2020, 6/12/2020, 7/9/2020,
7/19/2020 HOUSE LOCATION, LOT LINES, 7/28/2020, 7/30/2020 SEPTIC
8/3/2020, 8/12/2020, 12/30/2020, 1/21/2021, 3/5/2021, 3/19/2021

EROSION CONTROL CONSTRUCTION SEQUENCE PLAN HOUSE LOT DEVELOPMENT

NOTE: ALL EROSION AND SEDIMENT CONTROL ACTIVITIES SHALL CONFORM TO THE METHODS OUTLINED IN THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL MANUAL.

- COORDINATE MARKING OF LIMITS OF DISTURBANCE BY A LICENSED LAND SURVEYOR. SUPPLY TOWN EROSION CONTROL OFFICER WITH A LETTER FROM THE SURVEYOR CERTIFYING THE LIMITS OF DISTURBANCE WERE MARKED IN ACCORDANCE WITH THE APPROVED PLAN.
- CLEAR TREES AS REQUIRED.
- PRIOR TO SOIL DISTURBANCE INSTALL EROSION CONTROL MEASURES, SILT FENCE AND ANTI-TRACKING PAD (SEE PLAN DETAILS AND LOCATIONS). ADDITIONAL MEASURES MAY BE REQUIRED AS SITE CONDITIONS REQUIRE. COORDINATE AN INSPECTION OF INSTALLED MEASURES WITH THE EROSION CONTROL OFFICER. SUPPLY THE TOWN OF HEBRON EROSION CONTROL OFFICER WITH THE NAME AND PHONE NUMBER OF A CONTACT PERSON RESPONSIBLE FOR THE EROSION CONTROL MEASURES.
- PERIODICALLY AND AFTER LARGE RAIN EVENTS INSPECT EROSION CONTROL MEASURES AND REPAIR AS NECESSARY.
- GRUB AND STRIP TOPSOIL. STOCKPILE TOPSOIL IN AREAS INDICATED ON THE APPROVED PLAN.
- CONSTRUCT AND STABILIZE DRIVEWAY.
- CONSTRUCT HOUSE, WELL, DRIVEWAY, SEPTIC SYSTEM AND OTHER IMPROVEMENTS AS SHOWN.
- SPREAD STOCKPILED TOPSOIL. MACHINE RAKE, FERTILIZE, SEED AND MULCH DISTURBED AREAS. USE GRASS SEED THAT IS ACCEPTABLE FOR THE SITE CONDITIONS (I.E. SUN OR SHADE) AND THE SEASON OF THE YEAR IN WHICH THIS ACTIVITY IS COMPLETED. PROVIDE TEMPORARY STABILIZATION OF THE SITE (I.E. STRAW OR HAY ETC.) IF THE TOPSOIL IS SPREAD DURING A TIME OF YEAR WHEN GRASS SEED WILL NOT GERMINATE. PROVIDE PERMANENT STABILIZATION WHEN WEATHER CONDITIONS ALLOW.
- REMOVE EROSION CONTROL MEASURES AFTER THE SITE HAS BECOME FULLY ESTABLISHED.
- ANY EXISTING DISTURBED AREAS MUST BE SEEDED WITH PERMANENT OR TEMPORARY GROUND COVER AND MULCHED BY OCTOBER 15.
- DEWATERING OPERATIONS, IF REQUIRED, SHALL UTILIZE A CRUSHED STONE INTAKE PUMP AND A TEMPORARY OUTLET SILT POOL LOCATED WITHIN THE LIMITS OF DISTURBANCE.

SITE SEEDING NOTES:

PREPARATION: FINE GRADE AND RAKE SOIL SURFACE TO REMOVE STONES LARGER THAN 2" IN DIAMETER. INSTALL SEEDED EROSION CONTROL DEVICES SUCH AS SURFACE WATER DIVERSIONS AS REQUIRED. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS CONDUCTED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY OR OTHER RELIABLE SOURCE (BASED ON THE PROXIMITY OF THE SITE TO WATERWAYS LIMIT THE USE OF PHOSPHORUS FERTILIZER). WORK LIME AND FERTILIZER INTO SOIL UNIFORMLY TO A DEPTH OF 3"-4".

SEED APPLICATION: APPLY SEED MIXTURE FROM THE CHART BELOW BY HAND. CYCLONE SEEDER OR HYDRO SEEDER. INCREASE SEED MIXTURE BY 10% IF HYDRO SEEDER IS USED. LIGHTLY DRAG OR ROLL THE SEEDED SURFACE TO COVER SEED. SEEDING SHOULD BE DONE BETWEEN THE TIMES SHOWN ON THE CHART BELOW. IF SEEDING CANNOT BE DONE DURING THESE TIMES, REPEAT MULCHING PROCEDURE BELOW UNTIL SEEDING CAN TAKE PLACE.

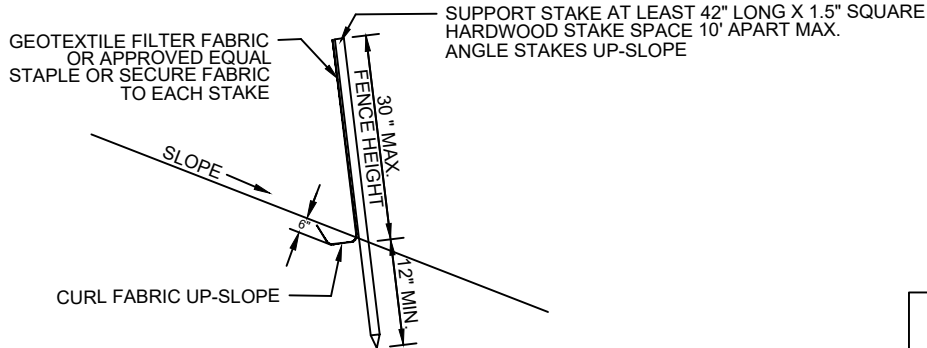
MULCHING: IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEED SURFACE WITH STRAW OR HAY AT A RATE OF 2 TO 3 TONS/AC. SPREAD MULCH BY HAND OR MULCH BLOWER. PUNCH MULCH INTO SOIL SURFACE WITH A TRACK MACHINE OR DISK HARROW SET STRAIGHT UP. IF USING HYDRO SEED MIX, USE TACTIFIER ADDITIVES TO ADHERE MULCH MATERIAL TO THE SURFACE.

SEED SELECTION:	LB/1000 SQ. FT.	SEED MIXTURE	RECOMMENDED SEEDING DATES
USE			
PERMANENT LAWN	0.45	KENTUCKY BLUEGRASS	4/1-6/15
	0.45	CREeping RED FESCUE	8/15-10/1
	0.10	PERENNIAL RYEGRASS	
SLOPES & COARSE LAWN	0.45	CREeping RED FESCUE	4/1-6/15
	0.05	RED TOP	8/15-10/1
	0.45	TALL FESCUE	
SLOPES (NO MOWING)	1.8	CREeping RED FESCUE	4/1-6/15
	0.2	RED TOP	8/15-10/1
TEMPORARY COVER	3.0	WINTER RYE	4/15-6/15, 8/15-10/15
	1.0	ANNUAL RYEGRASS	3/1-6/15, 8/1-10/15

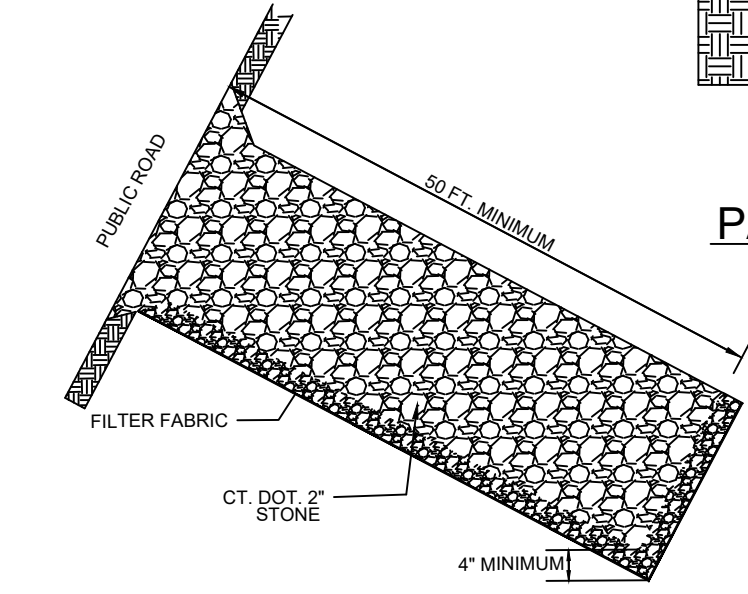
IF SEED IS PLANTED OUTSIDE THE RECOMMENDED SEEDING DATES IRRIGATION MAYBE REQUIRED AT A UNIFORM APPLICATION RATE OF 1 TO 2 INCHES OF WATER APPLIED PER APPLICATION, SOAKING THE GROUND TO A DEPTH OF 4 INCHES.

CONSTRUCTION NOTES:

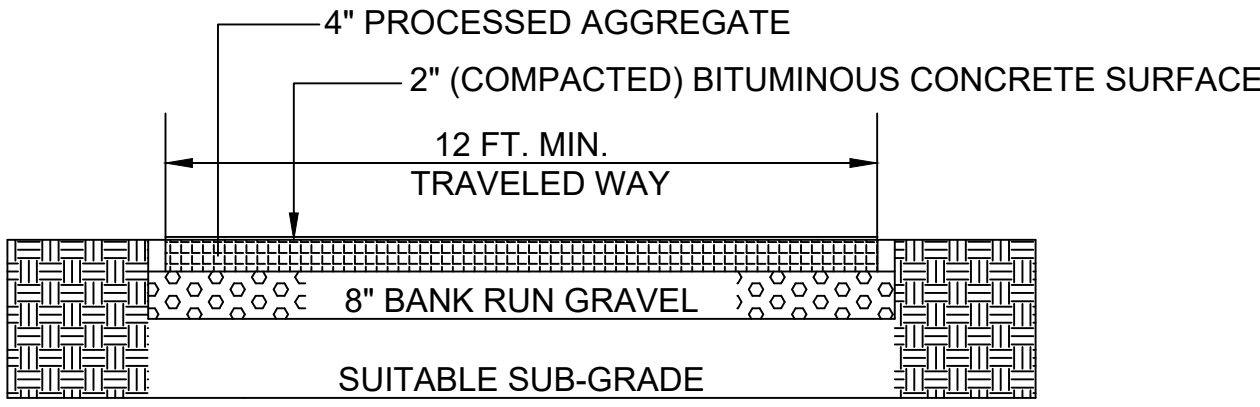
- OWNER OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- OWNER OR CONTRACTOR TO VERIFY ALL DIMENSIONS AND INFORMATION CONTAINED ON THIS PLAN PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY ALL BOUNDARY MARKERS SHALL BE SET BY A LICENSED LAND SURVEYOR.
- PRESERVE ANY EXISTING STONE WALLS WHEREVER POSSIBLE.
- ANY TREES TO BE REMOVED IN THE TOWN RIGHT OF WAY SHALL BE POSTED BY THE TREE WARDEN PRIOR TO REMOVAL.
- ALL PROPOSED UTILITIES LOCATIONS SHALL BE APPROVED BY THE LOCAL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.
- CLEARING LIMITS SHALL BE FLAGGED BY A SURVEYOR PRIOR TO ANY SITE DISTURBANCE.



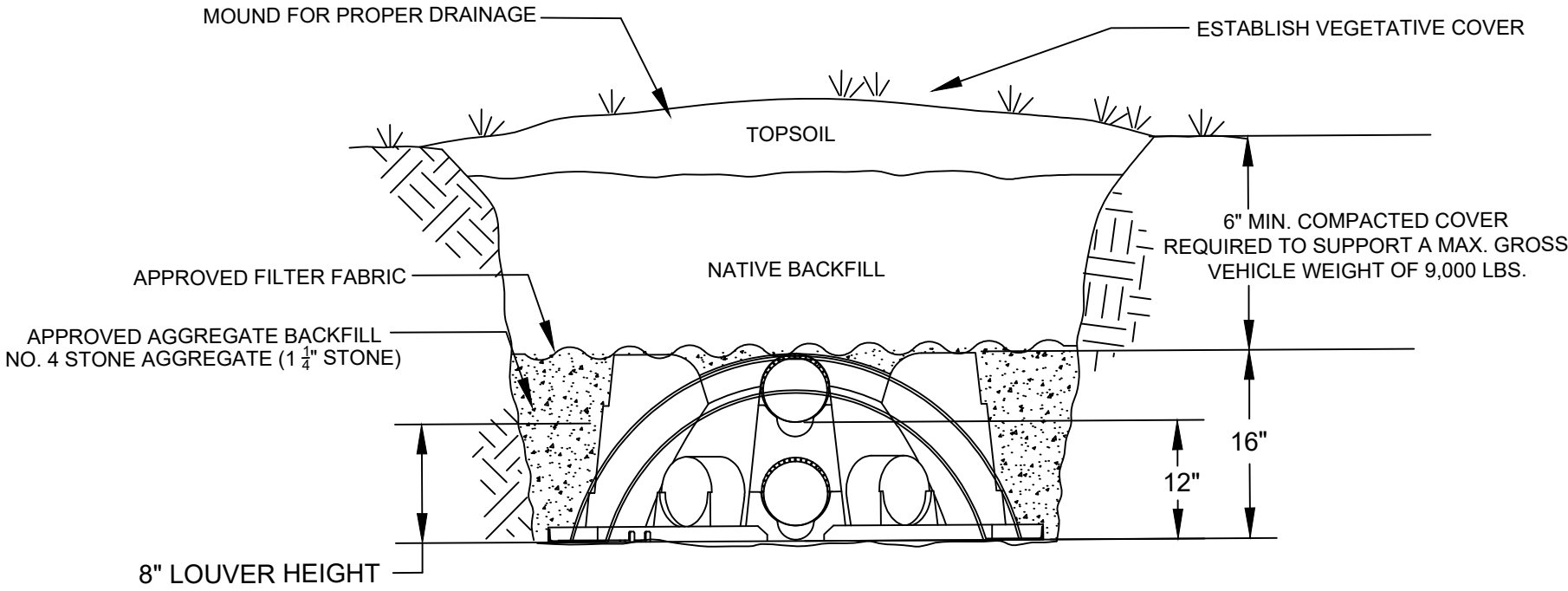
SILT FENCE DETAIL
NOT TO SCALE



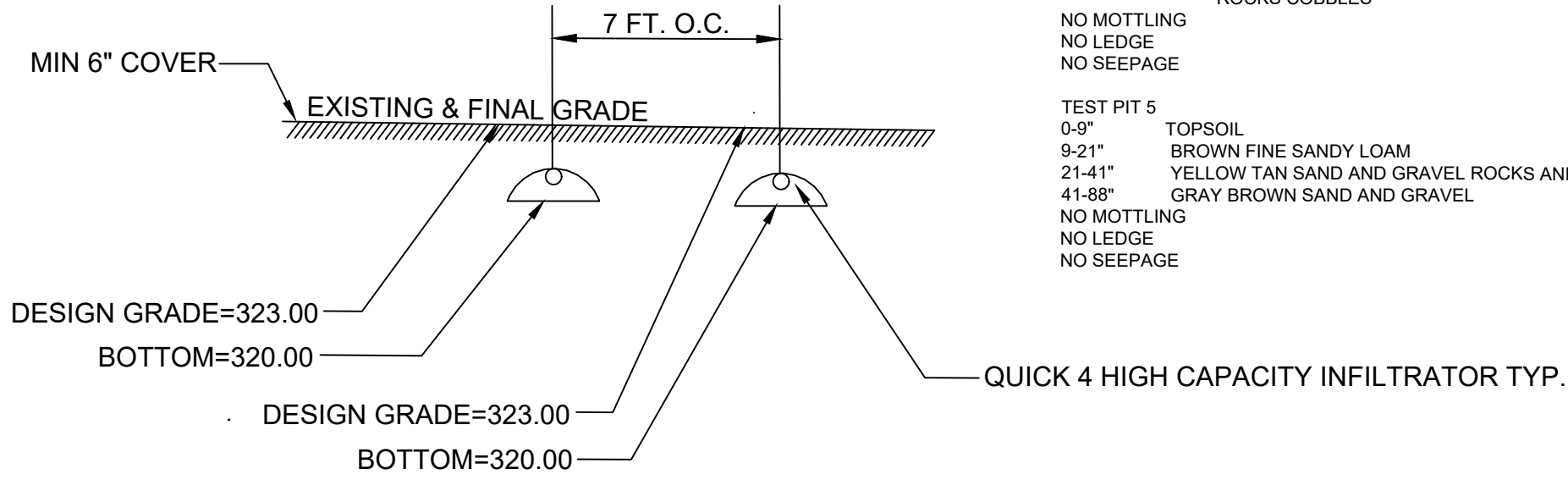
ANTI-TRACKING CONSTRUCTION ENTRANCE
NOT TO SCALE



PAVED DRIVEWAY DETAIL (12% MAX GRADE)
NOT TO SCALE



QUICK 4 HIGH CAPACITY TRENCH DESIGN DETAIL
(NOT TO SCALE)



LEACHING SYSTEM CROSS SECTION
SCALE 1"=5"

SPECIAL PERMIT FOR
FLOOD PRONE DISTRICT
APPROVED
ANDOVER PLANNING & ZONING COMMISSION

CHAIRPERSON-SECRETARY DATE
SEE P&Z MINUTES OF FOR SPECIFIC
CONDITIONS OF APPROVAL

PLAN PREPARED FOR

57 HENDEE ROAD, LLC

HENDEE ROAD ANDOVER, CT.

CONSTRUCTION / E&S/ SEPTIC DETAILS

SCALE: NONE DATE: 1/21/2021 FILE NO. 2019-70 SHEET: 3 OF 3

BUSHNELL ASSOCIATES LLC.
CIVIL ENGINEERING AND LAND SURVEYING
563 WOODBRIDGE STREET MANCHESTER, CT. 06042
860-648-7875

REVISIONS: 3/5/2021, 3/19/2021



Town of Andover

17 SCHOOL ROAD • ANDOVER, CT 06232

INLAND WETLANDS & WATERCOURSES COMMISSION

Permit #IWWC20-23

EFFECTIVE DATE: 09/14/2020 EXPIRATION DATE: 09/14/2022

NAME AND ADDRESS OF APPLICANT:
William R. Phillips and/or Donna J. Phillips
57 Hendee Road, LLC
69A Clark Road,
Bolton, CT 06043

NAME AND ADDRESS OF AUTHORIZED AGENTS:
John Ianni, Wetlands Scientist
Highland Soils
103 School St.
Canaan, CT 06038
Andrew Bushnell, P.E.
Bushnell Associates, LLC
563 Woodbridge St.
Manchester, CT 06042

PROPERTY TO WHICH THIS PERMIT APPLIES:
57 Hendee Road, Andover CT 06232

PERMITTED ACTIVITIES:

- New residential construction in an upland review area and modification of a floodplain as described in permit application IWWC 20-23 and corresponding site plan dated 5/1/2020 and revised 8/13/2020.

PERMIT SUMMARY:

This authorization refers to an application to conduct a regulated activity in or within 100 feet of inland wetlands and/or watercourses in the Town of Andover. The Inland Wetlands and Watercourses Commission of the Town of Andover, following investigation, and after reviewing the full record, has considered the application with due regard for the criteria found in the Inland Wetland Regulations of the Town of Andover. The agency believes that the proposed activity, subject to the specified conditions, conforms with the purpose of Town regulations and does not violate any of its provisions or regulations governing wetlands

Town of Andover Permit #IWWC20-23

Page 1 of 3

and/or watercourses in the State of Connecticut. Therefore, this authorization will constitute the permit required pursuant to Section 6.1 of the Inland Wetland Regulations of the Town of Andover.

This permit is issued with the following specific conditions and/or modifications and with the attached standard conditions:

- Exclosure fencing (sediment and erosion control fencing) should be established around the northern and western perimeter of the already cleared area proposed for fill excavation (western section of parcel 2). The post-excavation re-seeding plan for this area should be reviewed by the Inland Wetlands Agent prior to application to ensure that only a native seed mix is utilized.
- Prior to site preparation or construction activities for the proposed residential structure to be located on the eastern section of the site, exclusion fencing should be installed at the extent of clearing along the northern (river-facing) perimeter of the area and approved by the Inland Wetlands Agent prior to site disturbance. Standard sediment and erosion control fencing and installation design can be used to serve this purpose. If timing of the project results in the site preparation and construction work occurring in this area during the spring months (March-June), exclusion fencing should be extended along the western extent of clearing along the existing pathway to prevent turtles from attempting to nest in recently cleared areas.

This permit is subject to, and in no way derogates, any present or future property right or any other rights or powers of the Town of Andover. This permit conveys no property rights in real estate or materials or any exclusive privileges. No permission, either express or implied, is given for any regulated activities other than those authorized in this permit.

This permit is valid for two (2) years from the date of approval. Any permit shall be renewed upon request by the permit holder unless the agency finds that there has been a substantial change in circumstances which requires a new permit application or an enforcement action has been undertaken with regard to the regulated activity for which the permit was issued provided to permit may be valid for more than ten (10) years. (Review permit section 310 of the General Statutes "Duration of Permit".)

The applicant will notify the Commission via its Agent 2 days before the permitted activity begins. The applicant will notify the Commission via its Agent within 7 days of the completion date that the permitted activity has been finished.

Joseph Wagner

Joseph Wagner, Wetlands Agent
on behalf of the Town of Andover Inland Wetlands & Watercourses Commission

Original to: Applicant

Copy to: Authorized Agent
Inland Wetlands Commission files

Town of Andover Permit #IWWC20-23

Page 2 of 3

4/8/2021



4 South Englewood Road Phone: (860) 429-3325 Fax: (860) 429-3321

Septic Plan Review
Approval

April 8, 2021

Megan Phillips
57 Hendee Rd Parcel II
Andover CT 06232

RE: Septic Plan Review, Surveyor or Engineer

Address: 57 HENDEE RD Andover
Reference #: SPR-21-80

Your Application for the above referenced project has been reviewed for compliance with the Connecticut Public Health Code and Technical Standards. The plan is approved with the following conditions:

- Septic system plan dated 3-19-21 for new lot is approved.
- Septic System As-built for existing house at 57 Hendee is on file.

Please note that this plan approval is not an approval to construct the sewage disposal system. If not already done, a completed application and fee for the Permit to Construct the Sewage Disposal System must be submitted to the Health District for review and approval. The permit will be approved when all above noted conditions of approval have been met.

If you have any questions, please contact me.

Sincerely,

Thad King

Thad King, MPH, REHS RS

860-429-3325 (Manchester)

860-648-8066 x8108 (Bolton)

kingt@ehhd.org

Preventing Illness & Promoting Wellness for Communities in Eastern Connecticut
Andover • Ashford • Bolton • Chaplin • Columbia • Coventry • Mansfield • Scotland • Tolland • Willington

11

SEPTIC SYSTEM DESIGN NOTES AND CRITERIA

SEPTIC SYSTEM DESIGN AND INSTALLATION TO COMPLY WITH CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS REVISED JANUARY 1, 2018.

MINIMUM LEACHING SYSTEM SPREAD (MLSS) CALCULATION:

NUMBER OF BEDROOMS 4
PERCOLATION RATE 1-10 MIN./INCH
RESTRICTIVE LAYER NONE
GROUND SLOPE NOT APPLICABLE
MLSS: NOT APPLICABLE

REQUIRED: 1250 GALLON TWO-COMPARTMENT SEPTIC TANK
AND 577.50 SQ. FT. OF EFFECTIVE LEACHING AREA.

PROVIDED: 1,250 GALLON TWO-COMPARTMENT CONCRETE SEPTIC TANK WITH APPROVED EFFLUENT FILTER, NO GARBAGE DISPOSAL, WATER SOFTENING SYSTEM OR OVERSIZED TUB TO BE INSTALLED IN THE HOUSE. (ACCESS RISERS REQUIRED TO LESS THAN 12" FROM FINAL GRADE). 144 LINEAL FEET OF HIGH CAPACITY QUICK 4 INFILTRATORS (36 UNITS) (EFFECTIVE LEACHING CREDIT 4.1 SQ. FT./FT) BACKFILLED WITH APPROVED AGGREGATE AND AN EFFECTIVE LEACHING AREA OF 590.4 SQ. FT. MINIMUM SPACING OF 7 FT. ON CENTER. WITH HOUSE SEWER PIPE OF 4" DIA. SCHEDULE - 40 ASTM D-1785 / ASTM D-2665.

INFILTRATOR BOTTOMS TO BE NO MORE THAN 36" BELOW ORIGINAL GRADE.

THE SEPTIC SYSTEM AREA SHALL NOT BE DISTURBED PRIOR TO STAKEOUT
OF THE SYSTEM BY THE DESIGN ENGINEER.

THE DESIGN ENGINEER SHALL STAKE OUT THE SEPTIC SYSTEM, SET A LOCAL BENCHMARK AND SUPPLY THE EASTERN HIGHLANDS HEALTH DISTRICT WITH A STAKING VERIFICATION MEMO BEFORE A PERMIT TO INSTALL THE SYSTEM WILL BE ISSUED.

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER. SELECT FILL EXCEEDING 6% PASSING THE #200 SIEVE BASED ON A WET SIEVE TEST CANNOT BE APPROVED BY THE DESIGN ENGINEER.

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

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70 - 100	70 - 100
#40	10 - 50*	10-75
#100	0 - 20	0 - 5
#200	0 - 5	0 - 2.5

* 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%

SELECT FILL THAT DOES NOT MEET THE DRY SIEVE GRADATION CRITERIA BUT MEETS THE WET SIEVE CRITERIA IS ACCEPTABLE.

THE LICENSED INSTALLER IS RESPONSIBLE FOR PREPARING THE LEACHING AREA WITH REQUIRED SELECT FILL. THE TOPSOIL IN THE LEACHING AREA MUST BE COMPLETELY REMOVED AND THE SUBSOIL SCARIFIED PRIOR TO SELECT FILL PLACEMENT. THE INSTALLER SHALL TAKE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOIL FROM FROM OVERCOMPACTION, SILTATION OR OTHER DAMAGE. THE INSTALLER IS RESPONSIBLE FOR PROPERLY COMPACTING THE SELECT FILL TO FACILITATE CONSTRUCTION AND TO PREVENT SETTLING. SELECT FILL SHALL EXTEND A MINIMUM OF FIVE (5) FEET LATEROALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING AREA.

TEST PITS OBSERVED BY
HOLLY HOOD R.S.
EASTERN HIGHLANDS HEALTH DISTRICT
ANDREW BUSHNELL P.E.
AUGUST 27, 2009
TEST PIT 1A
0-8" TOPSOIL
8-24" LOAMY SAND
24-50" SAND, ROCKS (ALL SIZES)
NO MOTTLING
LEDGE 24"(SOUTH END) 36"(MIDWAY) 41"(NORTH)
NO SEEPAGE
ROOTS TO 41"

TEST PIT 1B
0-10" TOPSOIL
10-38" LOAMY SAND & LARGE BOULDERS
38-58" SAND, ROCKS, BOULDERS
NO MOTTLING
LEDGE 38"
NO SEEPAGE

TEST PIT 1C
0-8" TOPSOIL
8-21" BRIGHT ORANGE BROWN FINE SANDY LOAM
21-102" LIGHT BROWN SAND AND GRAVEL, WIROCKS, BOULDERS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1D
0-10" TOPSOIL
10-32" VERY FINE RED SAND
32"-7'-5" MED SAND AND GRAVEL W/COBBLES AND ROCKS (NO BOULDERS)
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1E
0-7" TOPSOIL
7-18" VERY FINE ORANGE BROWN FINE SANDY LOAM WIROCKS ALL SIZES
18"-7' SAND, COBBLES, ROCKS (NO 3' BOULDERS)
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1F
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1G
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1H
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1I
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1J
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1K
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1L
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1M
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1N
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1O
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1P
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1Q
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1R
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1S
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1T
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1U
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1V
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1W
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1X
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1Y
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1Z
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AA
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AB
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AC
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AD
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AE
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AF
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AG
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AH
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AI
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AJ
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AK
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AL
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AM
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AN
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCKS
22-88" MED-COARSE SAND AND GRAVEL W/COBBLES, ROCKS
NO MOTTLING
NO LEDGE
NO SEEPAGE

TEST PIT 1AO
0-10" TOPSOIL
10-22" FINE SANDY LOAM WIROCK

