

APPLICANT
 GERRY RANKIN
 556 MAIN STREET
 HINGHAM, MA 02043
 ASSESS PARCEL 168-0-100
 LOT AREA 69,996.2 SQ. FT.

NOTE:
 1. PLAN REFERENCE SUBDIVISION PLAN OF LAND, 901 MAIN STREET
 DATED MARH 07,2016 PREPARED BY JAMES ENGINEERING INC.
 2. ALL SEPTIC LOCATIONS AS SHOWN TAKEN FROM AS BUILT
 PLANS ON RECORD AT THE HINGHAM BOARD OF HEALTH.

DRAWING LIST:	TITLE	SHEET NO.
	COVER SHEET	1 of 7
	LOCUS	2 of 7
	APPROVED SITE PLAN	3 of 7
	REVISED SITE DEVELOPMENT	4 of 7
	GRADING SHEET	5 of 7
	UTILITY SHEET	6 of 7
	SEPTIC DETAILS	7 of 7

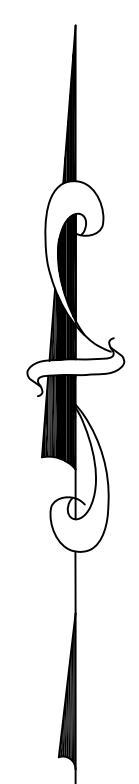
APPROVED BY THE PLANNING BOARD

DATE APPROVED: _____

SITE PLAN
 2 ANNICK DRIVE
 HINGHAM, MA 02043
 SCALE: 1"=80' DATE JUNE 20,2021
 JAMES ENGINEERING, INC.
 125 GREAT ROCK ROAD
 HANOVER, MASS. 02339
 TEL: 1- (339)-927-1186



REV.#	DATE	DESCRIPTION

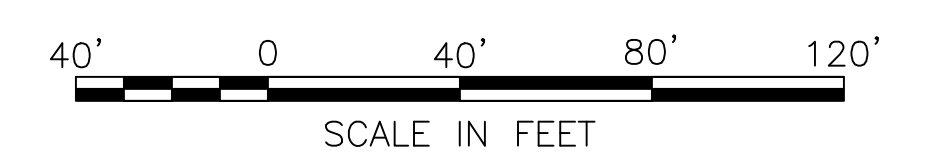


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LOCUS PLAN
 SITE PLAN
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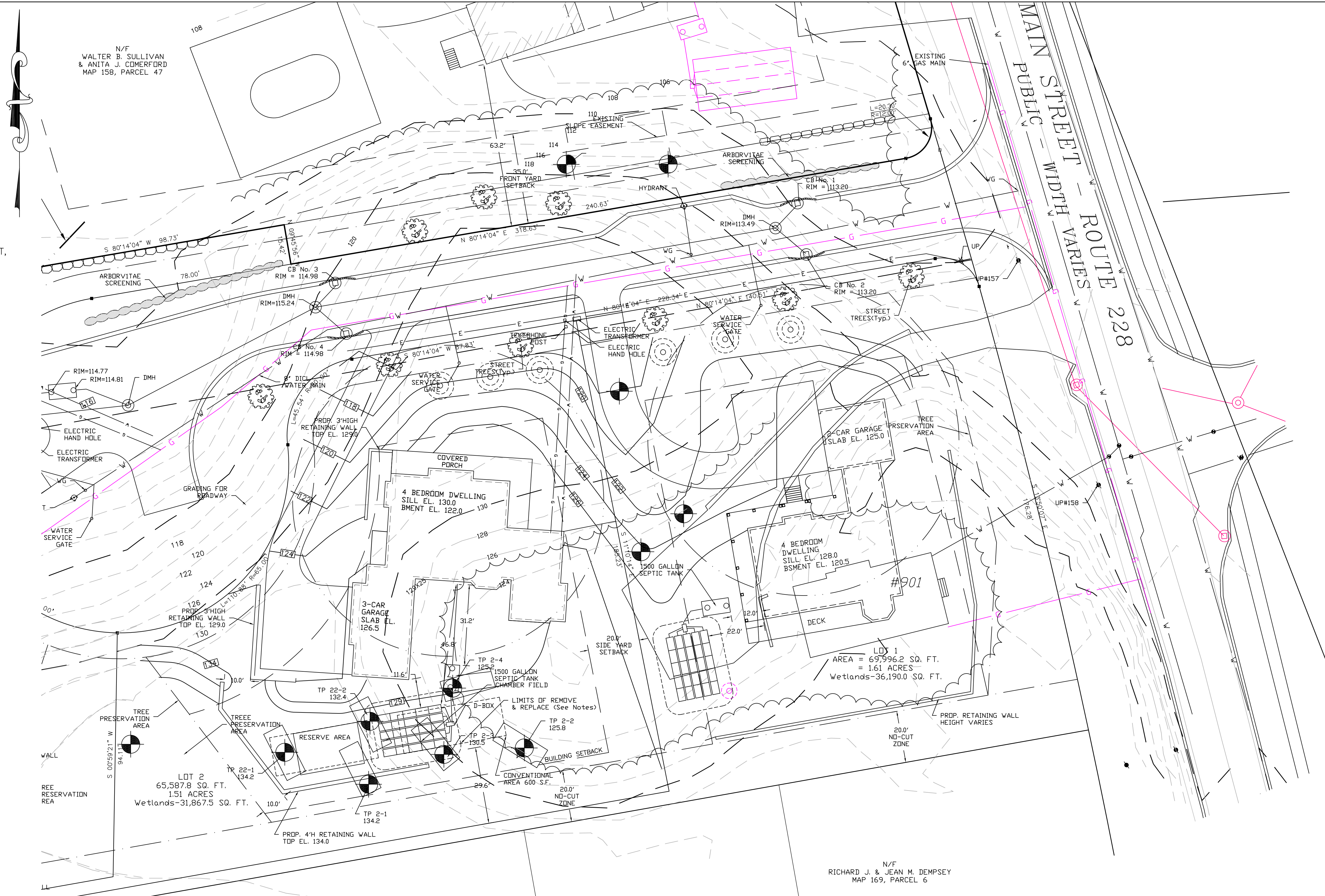
SCALE: 1"=40' DATE JUNE 20,2021

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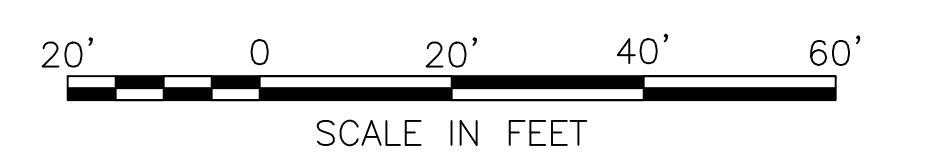
REV.#	DATE	DESCRIPTION

NOTE:
THIS PLAN IS DERIVED FROM THE APPROVED
DEFINITIVE SUBDIVISION ENTITLED 901 MAIN STREET,
DATED MARCH 07, 2016, AND APPROVED BY THE
PLANNING BOARD IN AUGUST 2016.



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APPROVED DESIGN
SITE PLAN
2 ANNICK DRIVE
HINGHAM, MA 02043
SCALE: 1"=20' DATE JUNE 20, 2021
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REV.#	DATE	DESCRIPTION

N/F DANIEL P. & ROBERTA H. NEVINS
5 HIGHFIELD ROAD
MAP 169, PARCEL 15

N/F DANIEL P. & ROBERTA H. NEVINS
5 HIGHFIELD ROAD
MAP 169, PARCEL 15

N/F DANIEL P. & ROBERTA H. NEVINS
5 HIGHFIELD ROAD
MAP 169, PARCEL 15

N/F MARGARET M. SPENCER
3 HIGHFIELD ROAD
MAP 169, PARCEL 8

N/F RICHARD J. & JEAN M. DEMPSEY
MAP 169, PARCEL 6

LOT 1 SUMMARY
 LOT AREA 69,996.2 SQ. FT.
 UPLANDS 33,806± SQ. FT.
 TOTAL DISTURBANCE AREA 21,990± SQ. FT.
 SLOPES > 10% 9,240± SQ. FT.

APPROVED LAND USE
 HOUSE 3,539 SQ. FT.
 DRIVEWAY 2,450 SQ. FT.
 LANDSCAPED 14,002 SQ. FT.
 OPEN SPACE 48,006 SQ. FT.

PROPOSED LAND USE
 HOUSE 2,920 SQ. FT.
 DRIVEWAY 2,084 SQ. FT.
 LANDSCAPE 14,900 SQ. FT.
 OPEN SPACE 48,000 SQ. FT.

NOTES:
 1. IT IS ASSUMED THAT THE ENTIRE LOT AREA OUTSIDE OF THE TREE PRESERVATION AREA AND NO CUT ZONE WILL BE ALTERED IN CONJUNCTION WITH THE PROPOSED SITE DEVELOPMENT.
 2. THE SUBDIVISION CONSTRUCTION HAS RESULTED IN THE ALTERATION OF

TREE EASEMENT
 TREE PRESERVATION AREA

NOTES:
 1. CONTOURS AS SHOWN ARE EXISTING CONDITIONS PRIOR TO THE SUBDIVISION IN 2016



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REV.#	DATE	DESCRIPTION
1	05/14/21	Rev basement slab Elev.
2	05/24/21	Added notes for disturbance



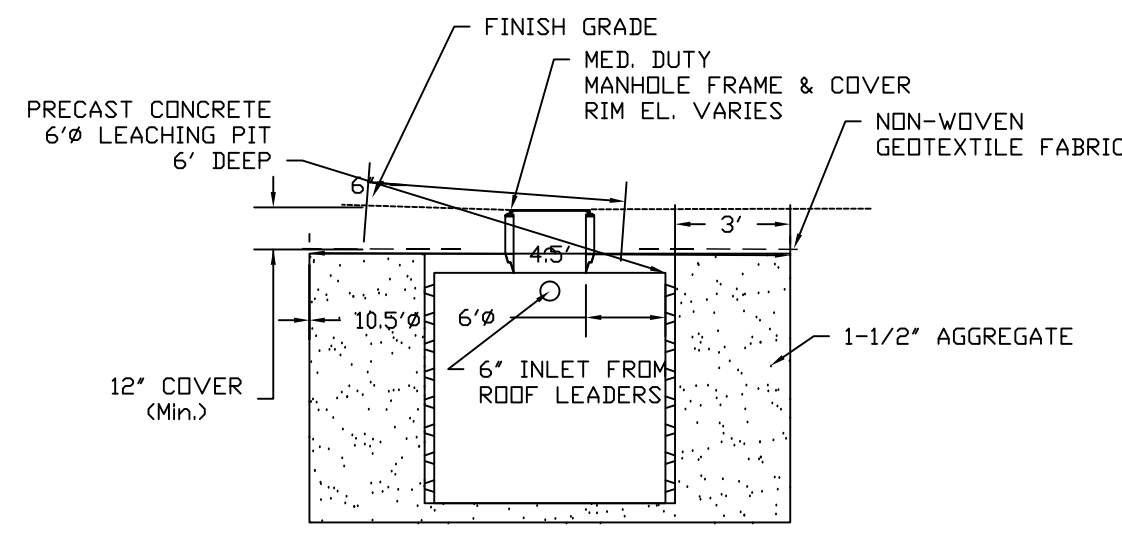
NOTES:
 1. CONTOURS AS SHOWN ARE EXISTING CONDITIONS JUNE 15, 2021
 2. THE ENTIRETY OF THE TREE EASEMENT AT THE FRONT OF THE LOT HAS BEEN LOAMED AND SEEDED AND STREET TREES HAVE BEEN IN PLACE FOR 2+ YEARS
 3. EXISTING SYSTEM SHALL BE PUMPED AND REMOVED IN ACCORDANCE WITH BOARD OF HEALTH REGULATIONS
 4. IT IS ASSUMED FOR THE SAKE OF THE SITE PLAN APPROVAL PROCESS THAT THE ENTIRETY OF THE LOT WILL BE MODIFIED IN CONJUNCTION WITH THE SITE DEVELOPMENT
 5. THE DEVELOPMENT OF THE SUBDIVISION HAS RESULTED IN THE DISTURBANCE OF NEARLY 19,000 SQ. FT.
 6. ALL OF THE 10% GRADES THAT EXISTED PRIOR TO THE SUBDIVISION HAVE BEEN ALTERED IN CONJUNCTION WITH THE SUBDIVISION CONSTRUCTION EITHER WITH STOCKPILES OR EXCAVATION ASSOCIATED WITH THE ROAD GRADES AND TREE EASEMENT.
 7. THE ONLY MATERIAL SCHEDULED TO LEAVE THE SITE WILL BE THE STOCKPILES ON THE LOT BESIDE THE HOUSE AND THE FOUNDATION EXCAVATION. ALL OTHER MATERIAL WAS INCLUDED IN THE SUBDIVISION TOTALS.

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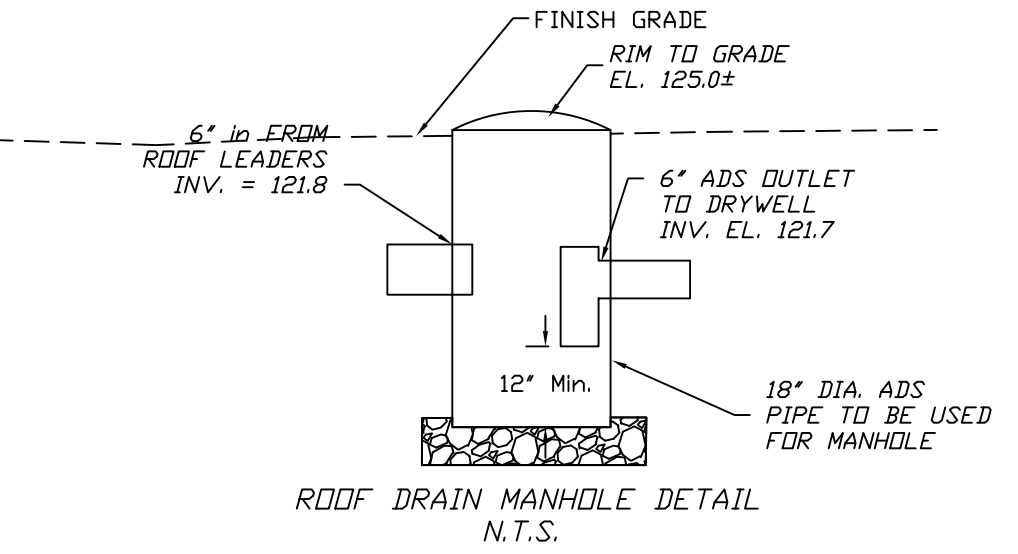
GRADING SHEET
 SITE PLAN
 2 ANNICK DRIVE
 HINGHAM, MA 02043
 SCALE: 1"=20' DATE JANUARY 22, 2021
 JAMES ENGINEERING, INC.
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REV.#	DATE	DESCRIPTION



LEACHING PIT DETAIL FOR ROOF RUNOFF



ROOF DRAIN MANHOLE DETAIL N.T.S.

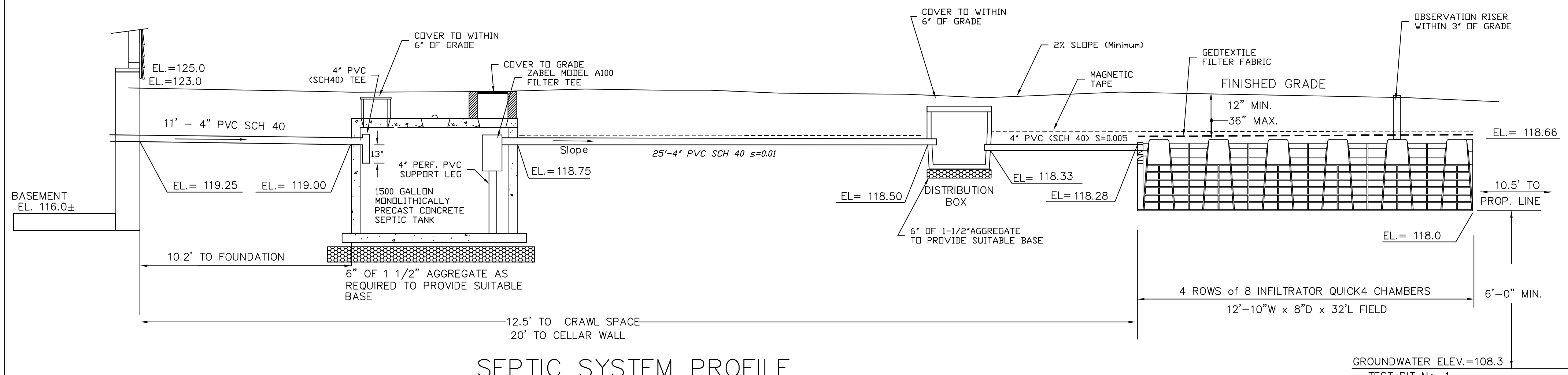


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UTILITY SHEET
 SITE PLAN
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SEPTIC SYSTEM PROFILE

OBSERVATION HOLE #1
 PERFORMED BY: GARY D. JAMES, P.E.
 WITNESSED BY: B. NEE, BOH AGENT
 PERC RATE: < 2 MIN./IN.
 DATE: 01/21/21

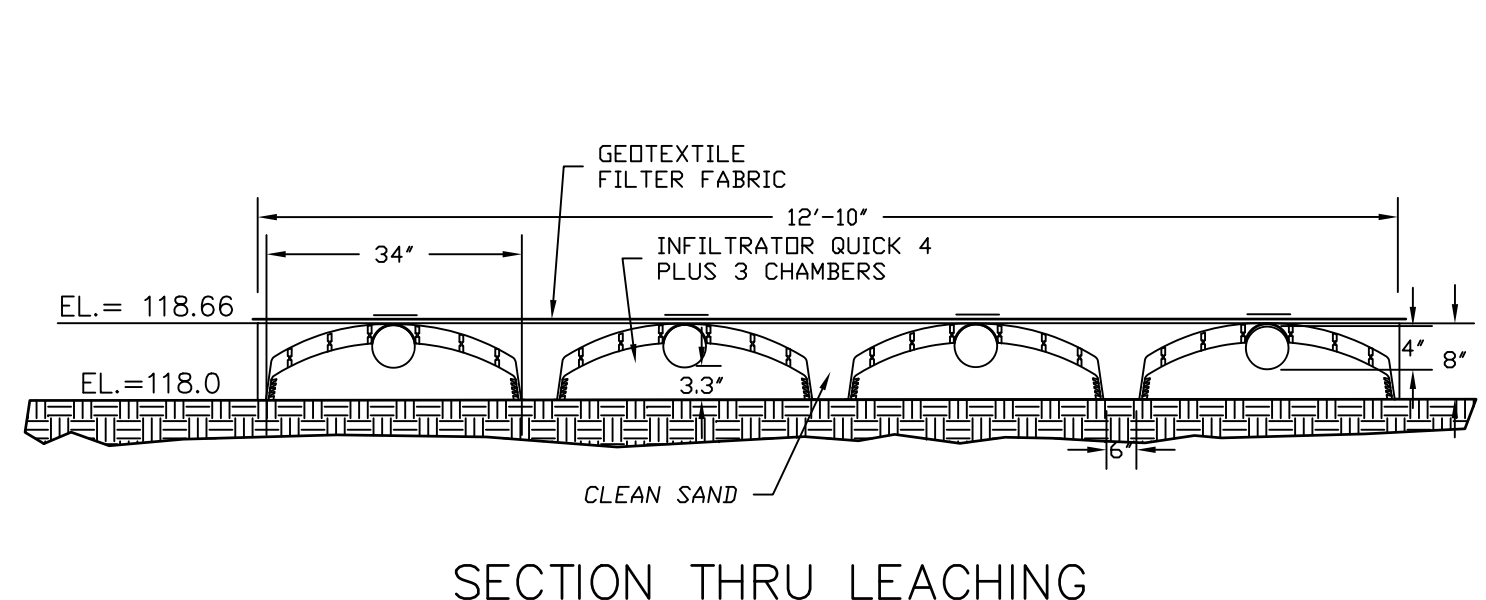
DEEP OBSERVATION HOLE LOG					
DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, CONCRETES, GRAVEL)
120.5	0-8"	B	LOAMY SAND	10 YR 4/4	LOOSE, GRAIN 0-5% gravel
28"	8-146"	C1	SAND	2.5 Y 5/4	LOOSE, GRAIN 0-5% gravel 0-5% stone

WEeping FROM PIT FACE: N/A
 ESTIMATED DEPTH TO MAX. G.W. EL. 108.3
 STANDING N/A

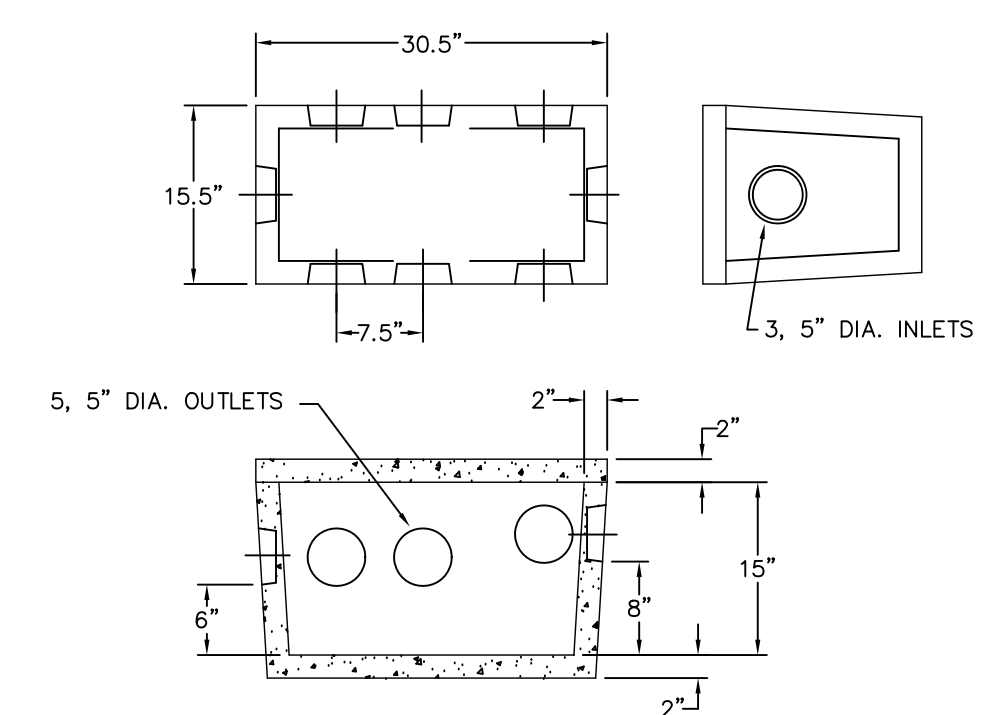
OBSERVATION HOLE #2
 PERFORMED BY: GARY D. JAMES, P.E.
 WITNESSED BY: B. NEE, BOH AGENT
 PERC RATE:
 DATE: 01/21/21

DEEP OBSERVATION HOLE LOG					
DEPTH FROM SURFACE (INCHES)	SOIL HORIZONS	SOIL TEXTURES (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER (STRUCTURES, CONCRETES, GRAVEL)
121.5	0-12"	B	LOAMY SAND	10 YR 4/4	LOOSE, GRAIN 15-20% gravel
12-143"		C1	SAND	2.5 Y 5/4	LOOSE, GRAIN 0-5% gravel 0-5% stone

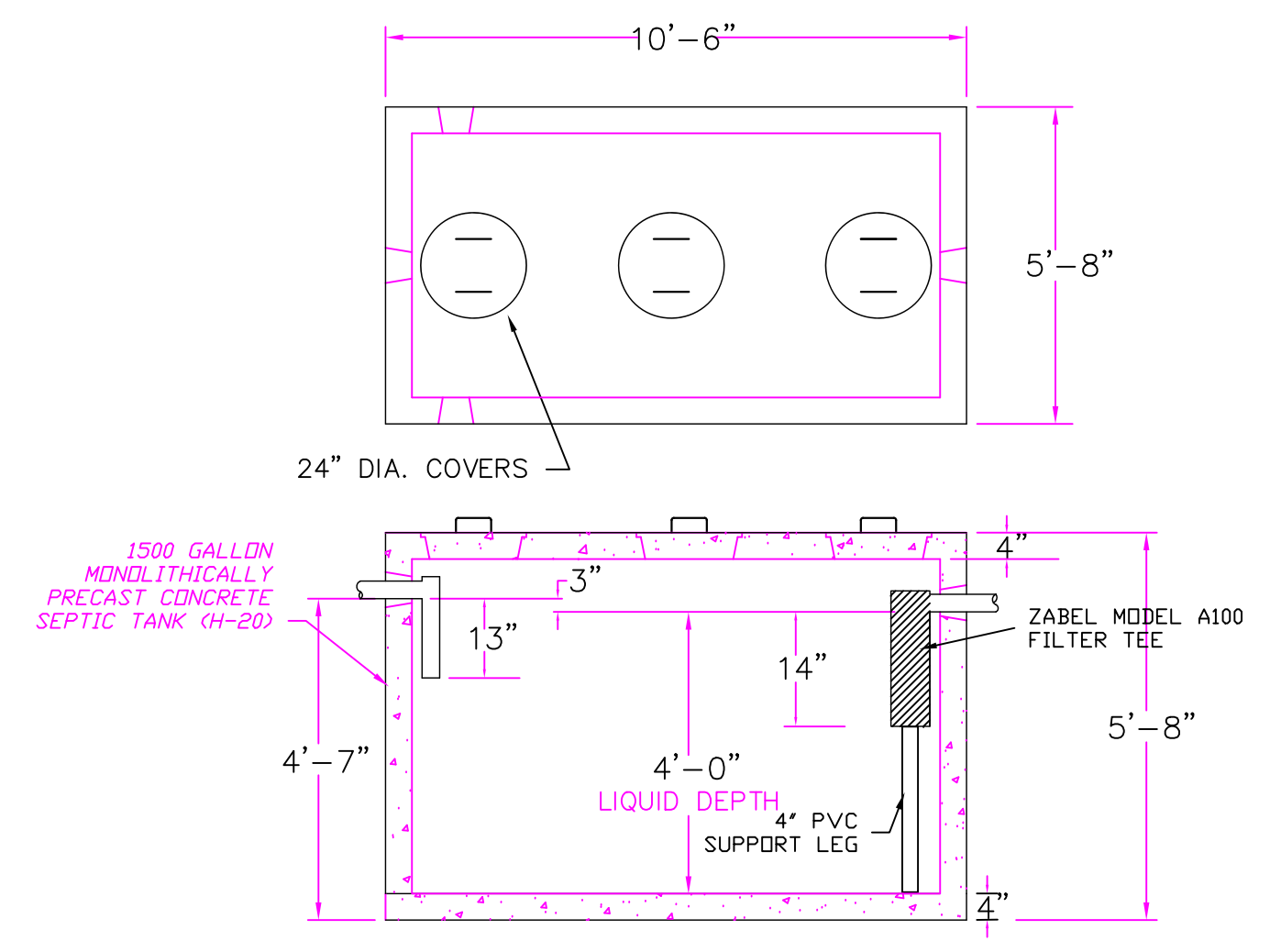
WEeping FROM PIT FACE: N/A
 ESTIMATED DEPTH TO MAX. G.W. EL. 109.6
 STANDING N/A



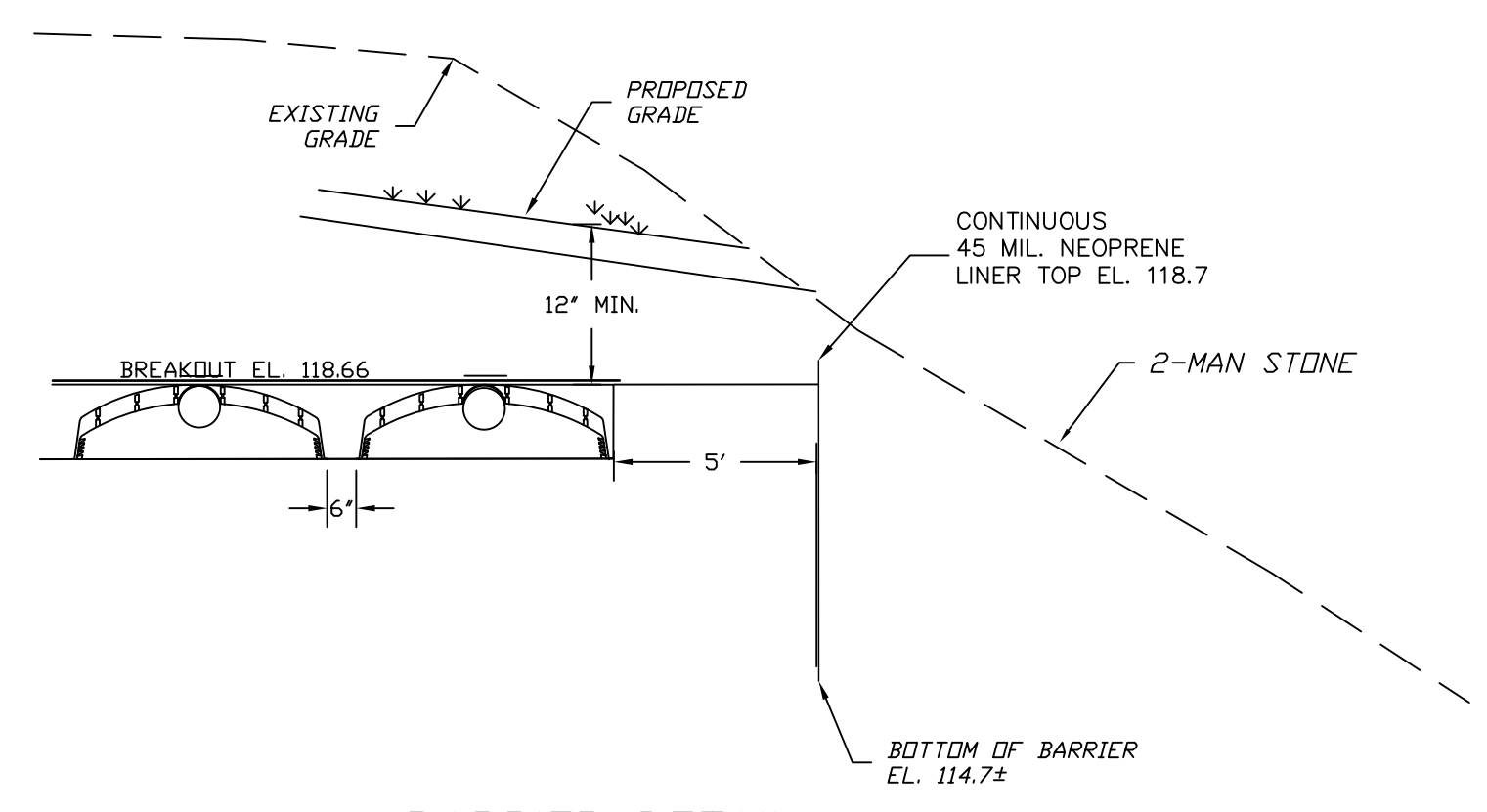
SECTION THRU LEACHING



DISTRIBUTION BOX



1500 GAL. SEPTIC TANK



BARRIER DETAIL N.T.S.

NOTES CONTINUED:

- 13. SEPTIC SYSTEM OWNER SHALL HAVE SEPTIC INSPECTED ANNUALLY AND PUMPED AS DEEMED NECESSARY BY THE INSPECTOR NOT LESS THAN ONCE EVERY 3 YEARS.
- 14. LEACHING FACILITIES SHALL BE COVERED WITH A GEOTEXTILE FABRIC LAYER.
- 18. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE SCHEDULE 40 PVC AND SHALL BE COVERED BY A MAGNETIC TAPE TO ASSIST WITH LOCATING THE PIPE.
- 19. UNLESS OTHERWISE NOTED, THERE ARE NO KNOWN WELLS WITHIN 500' OF THE PROPOSED LEACHING FACILITIES.
- 20. ALL SYSTEM COMPONENTS SHALL BE COVERED WITH A MAGNETIC TAPE TO HELP IDENTIFY LOCATION AFTER INSTALLATION.
- 21. DESIGN ENGINEER SHALL BE CONTACTED TO INSPECT THE CONSTRUCTION PROGRESS OF THE SYSTEM ;
 - 1. WHEN ALL MATERIAL HAS BEEN REMOVED TO INSPECT THE MATERIAL AT THE BOTTOM OF THE HOLE;
 - 2. WHEN THE SYSTEM COMPONENTS HAVE BEEN INSTALLED PRIOR TO BACKFILLING; AND
 - 3. WHEN THE SYSTEM FINAL GRADING HAS BEEN COMPLETED.
- 22. THE SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD AREA.
- 23. THE SITE IS LOCATED IN A ZONE II OF A PUBLIC WATER SUPPLY WELL.
- 24. INFILTRATOR QUICK 4 CHAMBERS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL USE PERMIT ISSUED BY DEP REVISED JUNE 12, 2015.
- 25. THE SYSTEM AS DESIGNED WILL REQUIRE THE FOLLOWING WAIVERS FROM THE TOWN OF HINGHAM BOARD OF HEALTH RULES AND REGULATIONS
 - 1. SECTION VI.7 TO REDUCE THE SETBACK FROM THE LEACHING FACILITIES TO A SUBSURFACE DRAIN TRIBUTARY TO A PROTECTED WATER BODY FROM 100' TO 30.4'.
 - 2. SECTION VI.9 TO REDUCE THE THICKNESS OF NATURALLY OCCURRING SOILS BENEATH THE SAS FROM 6' TO 0'.
 - 3. SECTION VI.12 TO ALLOW CONSTRUCTION IN FILL WITH LESS THAN 6' OF NATURALLY OCCURRING SOIL ABOVE GROUNDWATER. ACTUAL DEPTH 0'.

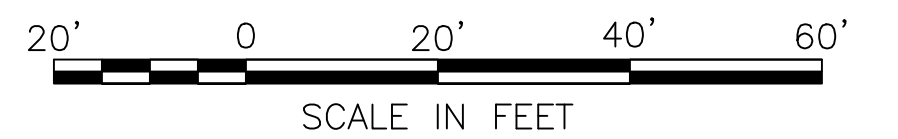
- 1. ELEVATIONS REFER TO N.G.V.D.
- 2. BENCH MARK CATCH BASIN RIM
EL. 67.28
- 3. ESTIMATED DAILY FLOW
4 BEDROOMS X 110 GALLONS PER BEDROOM PER DAY = 440 GALLONS PER DAY.
- 4. SEPTIC TANK REQ'D CAPACITY = 1500 GALLONS
- 5. LEACHING AREA REQUIREMENTS; CLASS I SOIL PERC RATE < 5 MIN/IN
APPLICATION RATE = 0.74 G/SF
USE QUICK4 INFILTRATOR CHAMBERS
AREA = 4.73 S.F. / L.F.
AREA REQ. = 440.0 ÷ 0.74 GAL/S.F. = 594.6 S.F.
LNTH REQ. 594.6 S.F. ÷ 4.73 S.F./L.F. = 125.7 L.F.
- 6. LEACHING AREA PROVIDED
USE QUICK4 CHAMBER BED 32'L X 12.83' W
4 ROWS OF CHAMBERS 32'L = 128'
EQUIV. AREA PROV. = 128 x 4.73 = 605.4 S.F.
CAP. PROV. = 605.4 X 0.74 G/S.F. = 448.0 G.P.D.
- 7. HEAVY GRADING MACHINERY SHALL NOT BE PERMITTED TO PASS OVER LEACHING AREAS.
- 8. ALL CONSTRUCTION TO CONFORM TO THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF ENV. PROTECTION SANITARY CODE, TITLE 5, AND THE TOWN OF HINGHAM BOARD OF HEALTH.
- 9. PERCOLATION DATA

PERC RATE	DEPTH OF TEST	DATE
1. < 2 MIN/IN	44"	04/02/19
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
- 10. THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER.
- 11. THE FIRST TWO FEET OF EACH LINE EXITING FROM THE "D"-BOX" SHALL BE LEVEL.
- 12. DESIGN ENGINEER TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS.

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