

DEEP TEST PIT DATA

WITNESSED AND RECORDED BY CHERYL HAASE RS, LEDGE LIGHT HEALTH DISTRICT ON JULY 21, 2021.

<p>TEST PIT 1 0-8" TOPSOIL 8-31" ORANGE-BROWN FINE SANDY LOAM 31-84" LIGHT BROWN MED-FINE SAND/GRAVEL (LARGE BOULDERS THROUGHOUT)</p> <p>NO MOTTLING NO GROUNDWATER NO LEDGE</p>	<p>TEST PIT 2 0-10" TOPSOIL W/FINE ROOTS 10-30" ORANGE FINE SANDY LOAM 30-84" LIGHT BROWN MED-COARSE SAND/GRAVEL</p> <p>NO MOTTLING NO GROUNDWATER NO LEDGE</p>
<p>TEST PIT 3 0-18" TOPSOIL W/ LEAF DEBRIS 18-22" ORANGE FINE SANDY LOAM 22-80" TAN-GRAY SAND W/SILT (COMPACT)</p> <p>MOTTLING AT 18" NO GROUNDWATER 80", SEEPAGE AT 26" NO LEDGE</p>	<p>TEST PIT 2 0-12" TOPSOIL 12-24" ORANGE FINE SANDY LOAM 24-64" LIGHT BROWN MED-COARSE SAND/GRAVEL</p> <p>NO MOTTLING NO GROUNDWATER LEDGE AT 64"</p>

PERCOLATION TESTS

PERFORMED BY DIETER & GARDNER, INC. ON AUGUST 2, 2021.

PERC A 15" DEEP		PERC B 15" DEEP	
TIME	READING	TIME	READING
10:31	0"	10:31	0"
10:36	2 1/2"	10:36	4 1/2"
10:41	4 1/2"	10:41	8 1/2"
10:46	6 1/2"	10:46	11"
10:51	7 1/2"	10:51	12"
10:56	8 1/2"	10:56	13"
11:01	9 1/2"	11:01	14"
11:06	10 1/2"	11:06	15"
11:11	11 1/8"		

PERCOLATION RATE: 10.0 MIN./INCH PERCOLATION RATE: 10.0 MIN./INCH

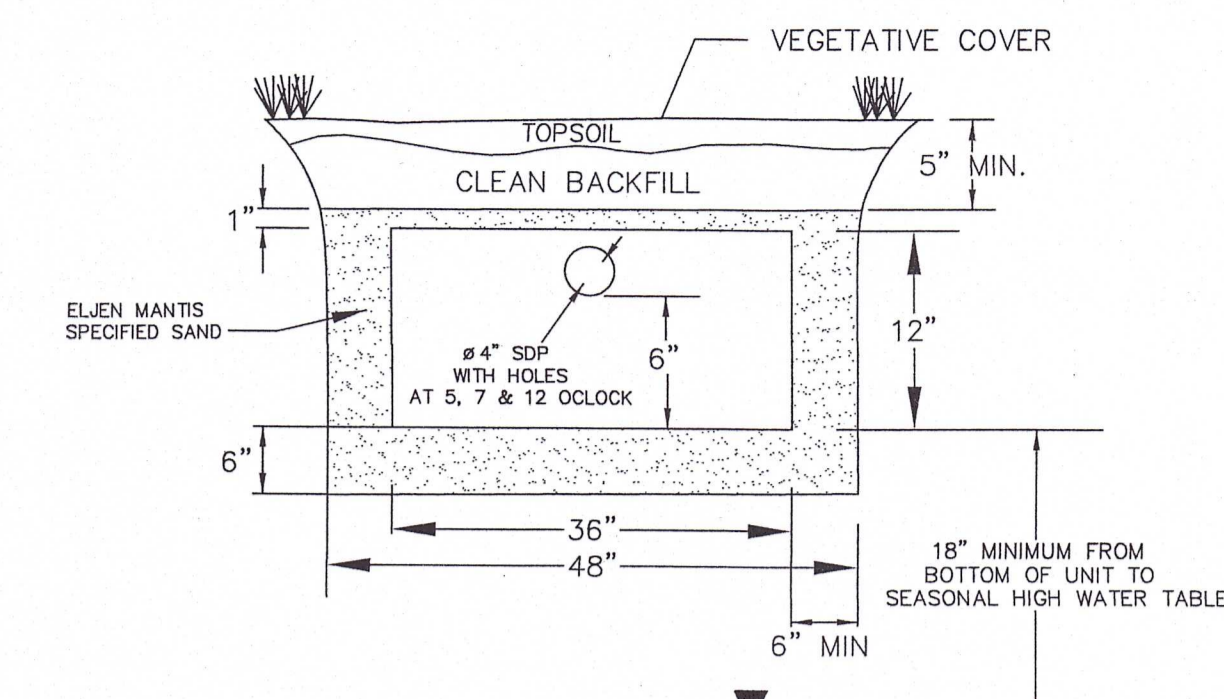
SANITARY DESIGN CRITERIA

- PROPOSED 430 Sq. Ft. OFFICE (430; 200 Sq. Ft. GROSS AREA/PERSON) = 2.15 EMPLOYEES X 20 GPD = 43 GPD
GARAGE AREA (INDUSTRIAL BUILDING) 1840 Sq. Ft. x 0.1 GPD = 184 GPD
TOTAL = 227 GPD. (PER TABLE IV OF THE CODE)
- 1000 GALLON TWO COMPARTMENT SEPTIC TANK REQUIRED BY CODE AND PROVIDED.
- DESIGN PERCOLATION RATE: 10.0 MIN./IN.
- MINIMUM LEACHING SYSTEM SPREAD: NOT APPLICABLE
APPLICATION RATE (TABLE B) 1.5 GPD PER S.F. 227 GPD/1.5=151.3 S.F. ELA
- EFFECTIVE LEACHING AREA REQUIRED PER CODE: 152 S.F.
- MANTIS 536-8 LOW PRO SELECTED FOR PRIMARY SYSTEM DESIGN.
EFFECTIVE LEACHING AREA PROVIDED PER L.F. PER CODE: 6.5 S.F./L.F.
MINIMUM LENGTH OF TRENCH REQUIRED: 152 S.F./6.5 S.F./L.F. = 23.4'
- EFFECTIVE LEACHING AREA PROVIDED:
1 - ROW - 25' LONG MANTIS 536-8 LOW PRO 1 X 25' X 6.5 S.F./L.F. = 162.5 S.F.
- 100% RESERVE AREA REQUIRED AND PROVIDED AS 25' LONG 536-8 MANTIS LOW PRO.

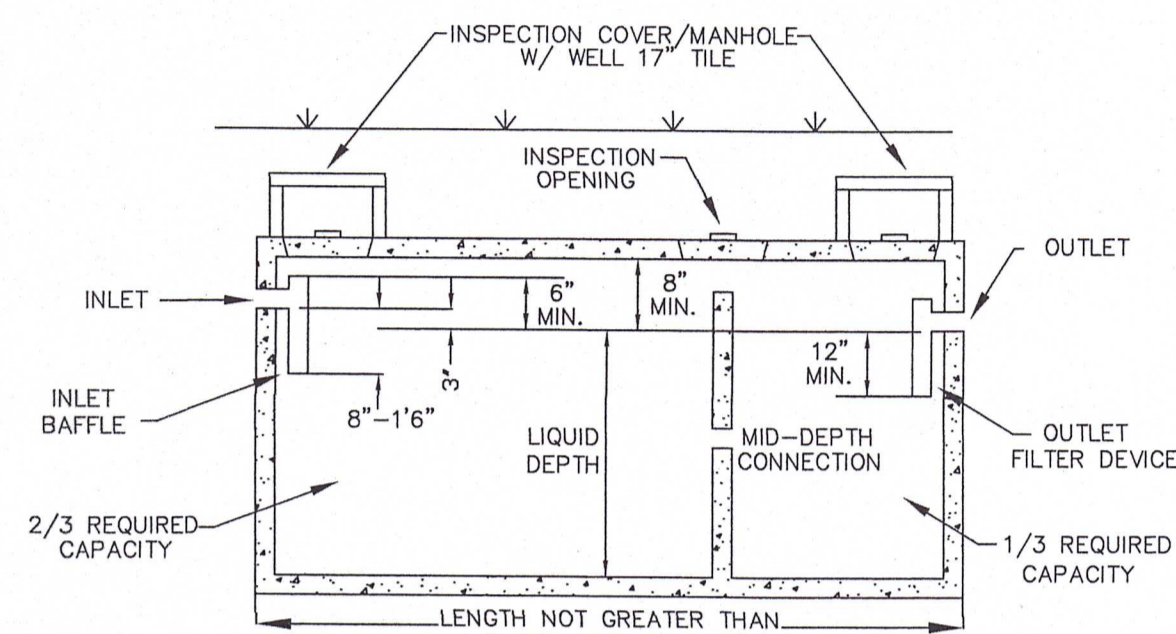
SANITARY ELEVATION DATA:

- SANITARY INVERT AT FOUNDATION: 208.75
- 18"-4" DIA. SCHEDULE 40 ASTM D1785 OR EQUAL PIPE (MIN. SLOPE = 1/4" PER FT.)
- 1000 GALLON TWO COMPARTMENT SEPTIC TANK
INVERT IN: 208.25
INVERT OUT: 208.00
- 9" - 4" DIA. SDR 35 PVC PIPE
- "D" BOX
INVERT IN: 207.50
INVERT OUT: 207.30
- 25' LONG MANTIS 536-8 LOW PRO
BOTTOM TRENCH ELEV.: 206.80
TRENCH INV.: 207.30

MANTIS 536-8 LowPro CROSS SECTION



NOTE: VENTING REQUIRED WHEN MORE THAN 18" OF COVER AS MEASURED FROM THE TOP OF THE UNIT TO FINISHED GRADE
NOT TO SCALE

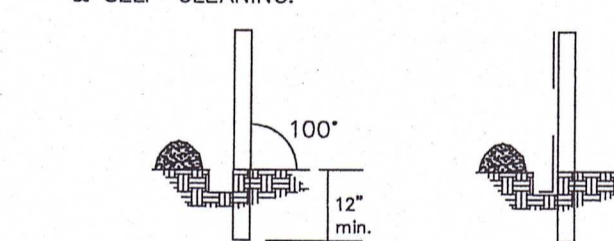


NOTE: CLEANOUT MANHOLES AND ALL BAFLED INSPECTION MANHOLES SHALL BE LOCATED AT A DEPTH NOT GREATER THAN 12" BELOW FINAL GRADE.

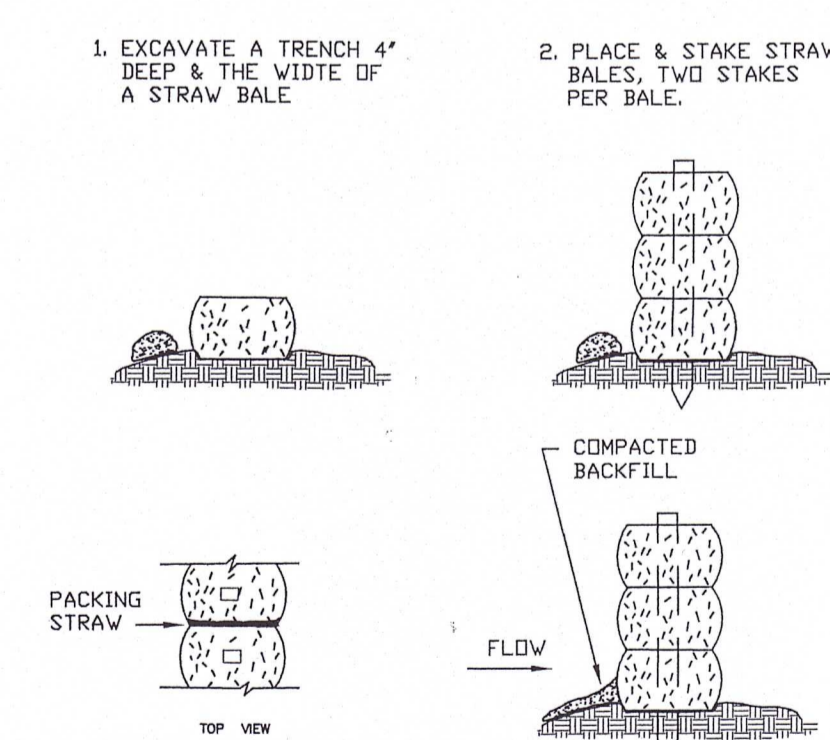
SEPTIC TANK DETAIL

NOT TO SCALE

- SET POSTS & EXCAVATE A 6" X 6" TRENCH. SET POSTS DOWN SLOPE. ANGLE UPSLOPE FOR STABILITY & SELF-CLEANING.
- STAPLE THE WIRE MESH FENCING TO END POST.



- EXCAVATE A TRENCH 4" DEEP & THE WIDTH OF A STRAW BALE.
- PLACE & STAKE STRAW BALES, TWO STAKES PER BALE.
- WEDGE LOOSE STRAW BETWEEN BALES TO CREATE A CONTINUOUS BARRIER.
- BACKFILL & COMPACT THE EXCAVATED SOIL ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

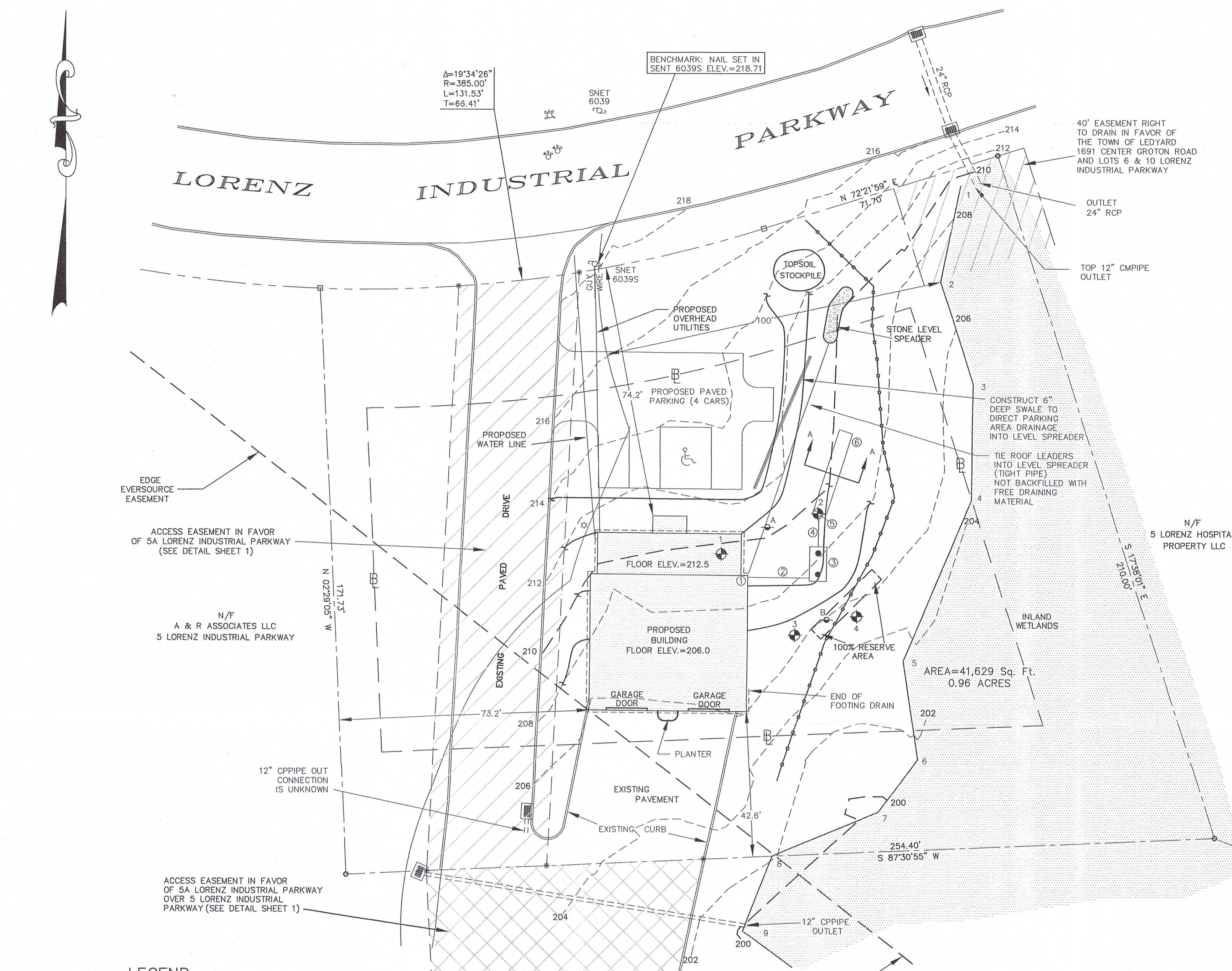


FILTER FABRIC SEDIMENT BARRIER

NOT TO SCALE

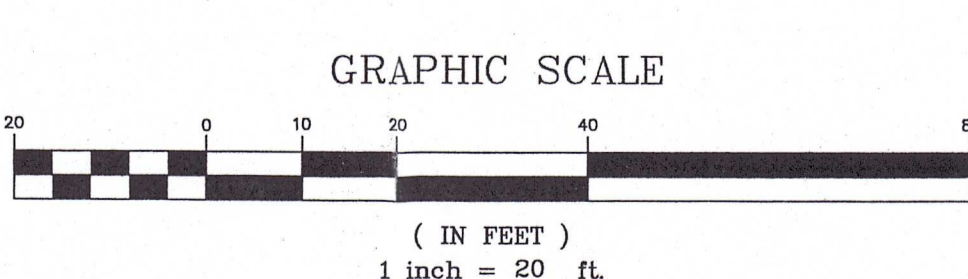
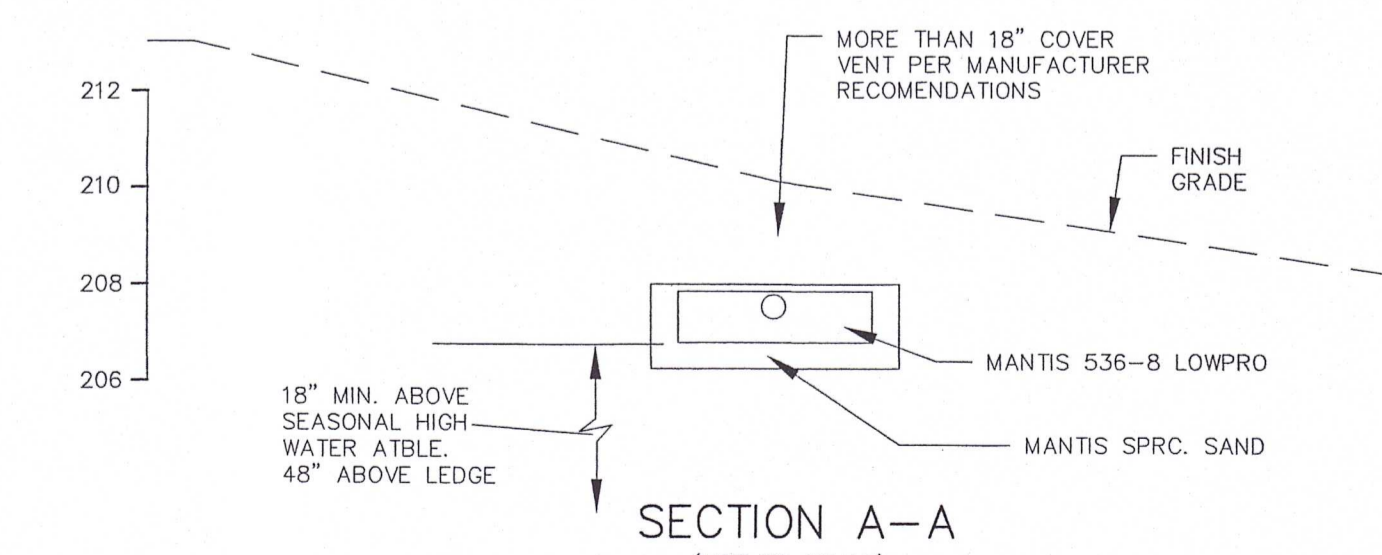
PLAN SHOWING
PROPOSED BUILDING
ON PROPERTY OF
A & R ASSOCIATES INC.
5A LORENZ INDUSTRIAL PARKWAY
LEDYARD, CONNECTICUT
SCALE: 1"=20'
OCTOBER 2024

SHEET 2 OF 2



LEGEND

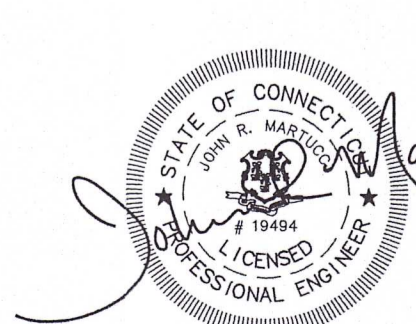
- PROPERTY LINE
- STREET LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- BUILDING SETBACK LINE
- DEEP TEST PIT LOCATION
- PERCOLATION TEST LOCATION
- UTILITY POLE
- CATCH BASIN
- SILT FENCE/HAYBALES/WOODCHIPS
- EDGE OF WETLANDS & FLAG NUMBER
- CURBING
- WATER GATE
- HYDRANT



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THIS MAP AND SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THROUGH 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES-MINIMUM STANDARDS OF ACCURACY, CONTENT AND CERTIFICATION FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT, ADOPTED EFFECTIVE JUNE 21, 1996, REVISED OCTOBER 26, 2018. IT IS A BOUNDARY SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2, TOPOGRAPHIC ACCURACY T-2. TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.
TITLE: LAND SURVEYOR CT No. 14208
DATE: OCTOBER 1, 2024