

Date..... May 5, 1999.....

Permit No..... 99-10.....

# TOWN OF ACTON

## APPLICATION FOR PERMIT TO CONSTRUCT WITHIN A PUBLIC WAY

This application must be submitted not less than five (5) days prior to any Construction within a public way.

Notice 24 hours in advance of any construction must be given to the Town Engineer.

- 1. Permittee: Rose + Ernie Merrill Address: P.O. Box 617 Acton
- 1A. Telephone #: 978-263-8346
- 2. Location of Proposed Construction: 33 Prospect St.
- 3. Purpose of Construction: ~~water shut off~~ DRAIN INSTALLATION IN ROAD SHOULDER
- 4. Length of Cut: 200' +/-
- 5. Width of Cut: 2
- 6. Width of Existing Pavement: Varies
- 7. Type of Existing Roadway Surface: pavement Type of Curb: None
- 8. Type of Existing Sidewalk Surface: none Type of Shoulder:
- 9. Date of Street Opening: From 5-6-99 To 5-14-99
- 10. For Work Involving Excavations: Dig Safe Number 19991907054  
NEED NEW DIG-SAFE #

I, the undersigned, hereby declare that I have read and agree to the Town of Acton Specifications for Regulating Construction with Public Ways dated August 3, 1982. I have deposited the required bond with the Town of Acton, and I covenant and agree that the Town may deduct from this amount the cost of repairs to the road surface, curbs, shoulders, walls or other features within the right-of-way including replacing bounds if not completed by me to the satisfaction of the Town Engineer within the specified time.

Special Instructions:

Signature of Applicant: *Rose M. Merrill*

19991907054

Permit Issued: Date 5/6/99

By: *Dennis P. Ryan*

Application Denied: Date

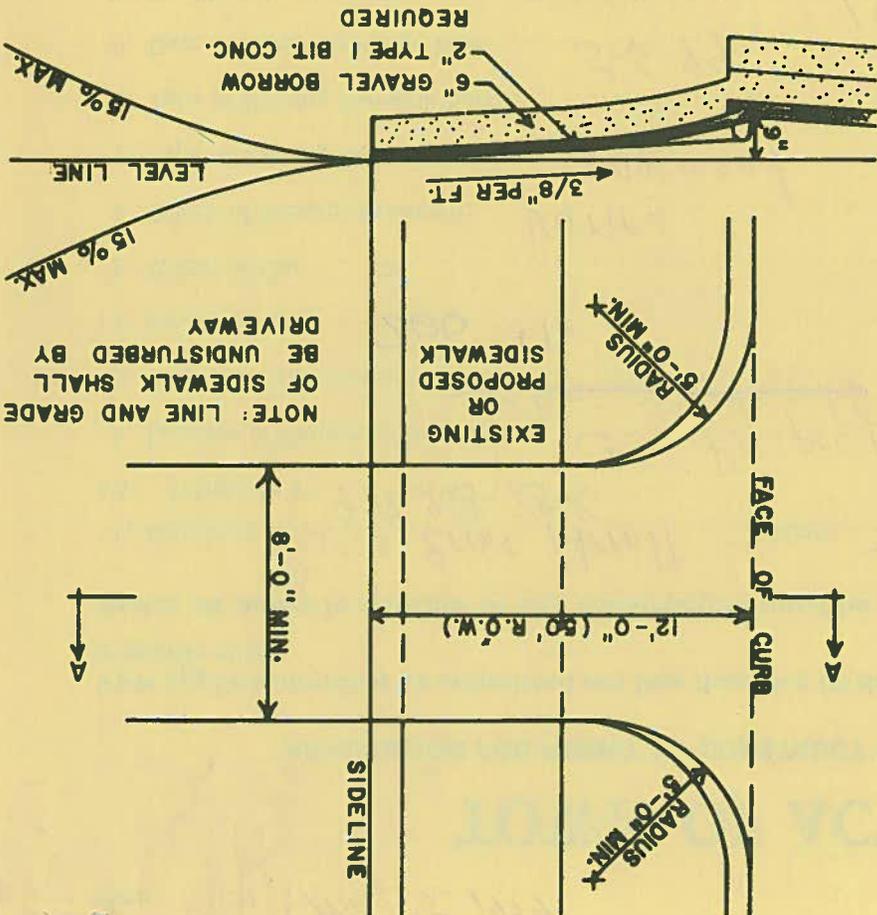
By:

Work Inspected and Approved: Date 9/16/99

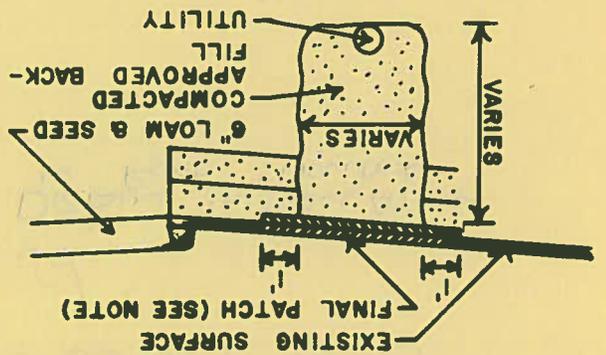
By: *Dennis P. Ryan*

**SKETCH**

**SECTION A-A**



- NOTE: 1. FINAL PATCH DEPTH  
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS  
3. OIL TREATED ROADS  
4. BIT. CONC. ROADS



**TOWN OF ACTON  
TRENCH DETAIL  
FEB. 1969  
NO SCALE**

Town of Acton  
Permit to Construct Within a Public Way  
(Hold)

To: Town Treasurer

Date: May 5, 1999

From: Engineering Department

Subject: Performance Deposit - Permit to Construct Within a Public Way #: 99-10

Please hold the enclosed performance deposit in the form of:

Certified Check #: \_\_\_\_\_ Bank: \_\_\_\_\_

Personal Check #: 1822 Bank: Middlesex Savings Bank

Other (specify): \_\_\_\_\_

In the amount of \$ 1500.-, from (Permitee) Rose Merrill

as security for Permit to Construct Within a Public Way # 99-10

located at (address) 33 Prospect St.

For authority, see section 3.1 of the Town of Acton Specifications for Regulating Construction Within Public Ways. This deposit is to be held until released in writing by this department.

Account #: 81 25400

Amount: \$ 1500.<sup>00</sup>

Mailing Address of Permitee:

ROSE ERNIE MERRILL

P.O. Box 617

ACTON, MA. 01720

Signed: Pennix P. Roy  
Acton Engineering Department



Town of Acton  
Permit to Construct Within a Public Way  
(Release)

To: Town Treasurer

Date: 9/16/99

From: Engineering Department

Subject: Performance Deposit - Permit to Construct Within a Public Way #: 99-10

Please release the enclosed performance deposit in the form of:

Certified Check #: \_\_\_\_\_ Bank: \_\_\_\_\_

Personal Check #: 1822 Bank: MIDDLESEX SAVINGS BANK

Other (specify): \_\_\_\_\_

In the amount of \$ 1500.<sup>00</sup>, to (Permitee) ROSE MORRILL

which is being held as security for Permit to Construct Within a Public Way #: 99/10

located at (address) 33 PROSPECT STREET

For authority, see section 3.1 of the Town of Acton Specifications for Regulating Construction Within Public Ways. The work proposed under this permit has been satisfactorily completed.

Account #: 81 25300

Amount: \$ 1500.<sup>00</sup>

Mailing Address of Permitee:

ROSE MORRILL

P.O. BOX 617

ACTON, MA 01720

Signed: Dennis P. King  
Acton Engineering Department









Town of Acton  
Permit to Construct Within a Public Way  
(Forfeit)

To: Town Treasurer

From: Engineering Department

Subject: Performance Deposit - Permit to Construct Within a Public Way #: 99-9

Please transfer the performance deposit in the form of:

Certified Check #:

Bank:

Personal Check #: 2649

Bank: MIDDLESEX SAVINGS

Other (specify):

Posted by (Permittee) NEW ENGLAND PROPERTIES

In the amount of \$ 1500.00, from Account # 25300 to Account # 25301.

These funds were being held as security for Permit to Construct Within a Public Way #: 99-9

located at (address) 310 CENTRAL ST.

For authority, see section 3.1 of the Town of Acton Specifications for Regulating Construction Within Public Ways. The work proposed under this permit has not been satisfactorily completed and the performance deposit posted by the Permittee will be utilized by the Town of Acton or its authorized agent to fulfill the obligations associated with the issuance of this permit.

Amount: \$ 1500.00

Mailing Address of Permittee:

N.E. PROPERTIES

P.O. BOX 736

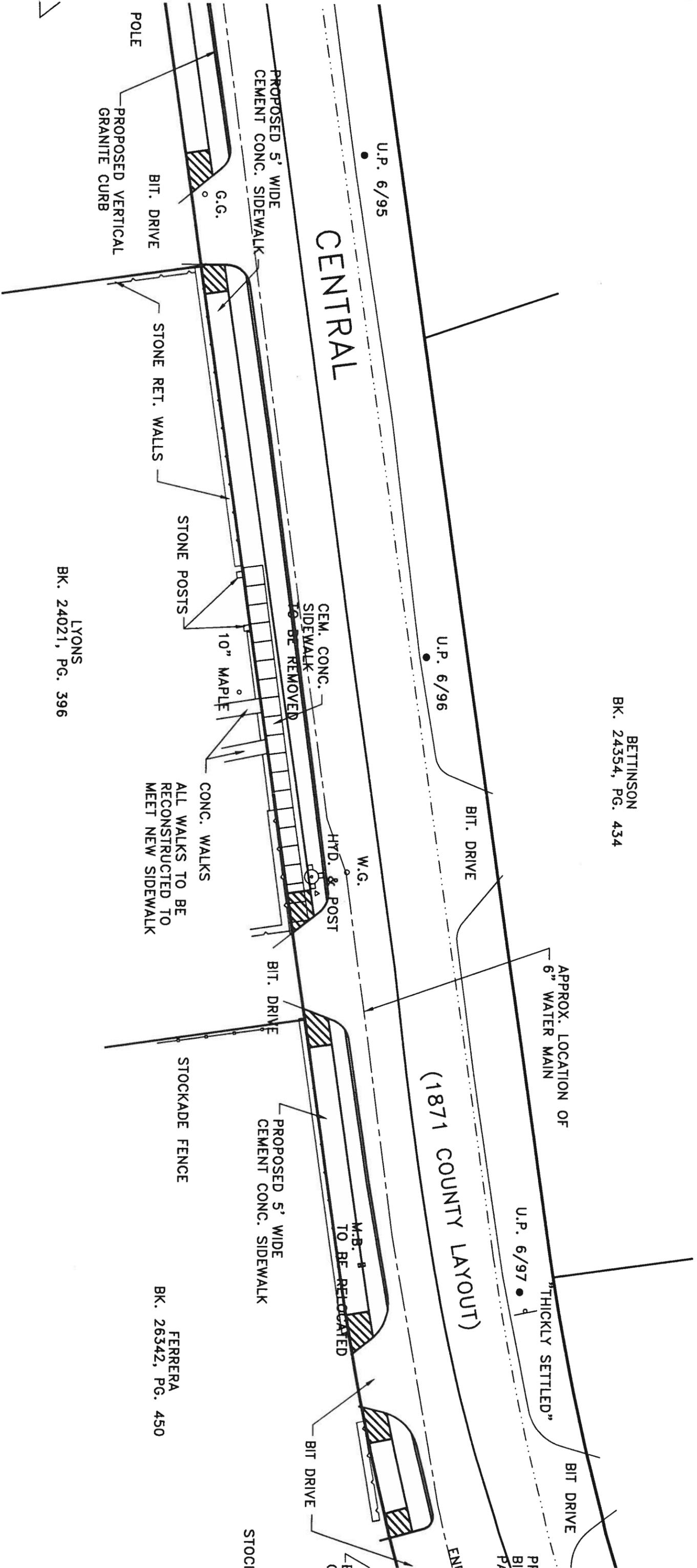
ACTON, MA. 01720

Signed:

*Thomas P. King*  
Acton Engineering Department







LYONS  
BK. 24021, PG. 396

BETTINSON  
BK. 24354, PG. 434

FERRERA  
BK. 26342, PG. 450



Bedrock: NOT DETERMINED  
 Standing Water: NONE  
 Weeping Slides: NONE  
 Seasonal High Ground Water: 47"

Bedrock: NOT DETERMINED  
 Standing Water: NONE  
 Weeping Slides: NONE  
 Seasonal High Ground Water: 46"

On-site Review  
 Date: 12/22/99 10:00AM Weather: OVERCAST/RAIN 30'S  
 SURFACE Elevation: 247.8 slope: 2-5 Stones:PRESENT/WALLS

On-site Review  
 Date: 12/22/99 10:00AM Weather: OVERCAST/RAIN 30'S  
 SURFACE Elevation: 247.3 slope: 2-5 Stones:PRESENT/WALLS

Landuse: VACANT LOT  
 Vegetation: 2ND GROWTH/ PIONEER  
 Landform: GROUND MORaine  
 Parent Material: ABLATION TILL

Landuse: VACANT LOT  
 Vegetation: 2ND GROWTH/ PIONEER  
 Landform: GROUND MORaine  
 Parent Material: ABLATION TILL

DEEP OBSERVATION HOLE LOG

DEEP OBSERVATION HOLE LOG

Depth to	Horizon	Texture	Color	Soil Mottling	Other
0-9	AP	SL	10YR3/3	<5	CRUMB
9-27	BW	SL	10YR6/6	<5	MASS/FRIABLE
27-111	C1	SL	2.5Y6/4	>10 7.5YR6/6 5Y4/2	10% GRAVEL STONE COBBLES BOULDERS SOME SLIGHTLY ROUNDED

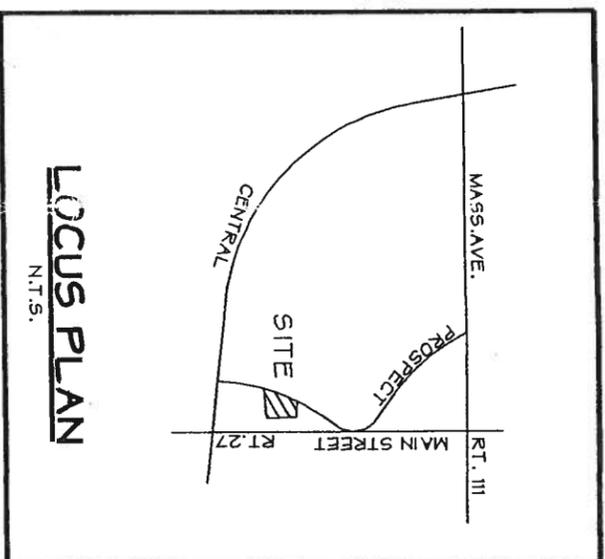
Depth to	Horizon	Texture	Color	Soil Mottling	Other
0-9	AP	SL	10YR6/6	<5	CRUMB
9-30	BW	SL	10YR3/3	<5	MASS/FRIABLE
30-37	BC	SL	10YR5/5	<5	10% GRAVEL STONE COBBLES
37-113	C	SL	2.5Y6/4	41" 7.5YR6/6 >5	SEMI COMPACT STONE/COBBLES BOULDERS SLIGHTLY ROUNDED

DEPTH TO:  
 Bedrock: NOT DETERMINED  
 Standing Water: NONE  
 Weeping Slides: 72"  
 Seasonal High Ground Water: 37"

DEPTH TO:  
 Bedrock: NOT DETERMINED  
 Standing Water: NONE  
 Weeping Slides: 91"  
 Seasonal High Ground Water: 41"

APR 28 1999  
 ACTION BOARD OF HEALTH

1. SYSTEM WAS DESIGNED TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH DOMESTIC USAGE CONSISTING OF WATERBORNE PUTRESCIBLE WASTE, AND FOR THE DESIGN FLOW CALCULATED BELOW. SYSTEM WAS NOT DESIGNED FOR THE USE OF A GARBAGE GRINDER.
2. FLOWS: 4 BEDROOMS @ 110 GPD 440 GPD
3. SEPTIC TANK: 2 X FLOW, OR MINIMUM SIZE, 1500 GALLONS-LIQUID CAPACITY
4. LEACHING AREA:  
 A. PERCOLATION RATE USED: 15 MIN/IN  
 B. SOIL CLASS: 2  
 C. APPLICATION RATE: 0.37 + 0.56 ACTON  
 D. AREAS PROVIDED:  
 1. BOTTOM AREA: 100  
 2. SIDEWALL: 304  
 3. TOTAL: 404  
 F. CAPACITY PROVIDED: 447GPD  
 G. GROUNDWATER OFFSET: 4' GWPD #4



SUBSURFACE SEWAGE DISPOSAL SYSTEM



*Mark Donchoe*  
 1/24/99

ROSE MERRILL

DATE: JANUARY, 1999  
 SCALE: 1" = 2'

ACTON SURVEY & ENGINEERING

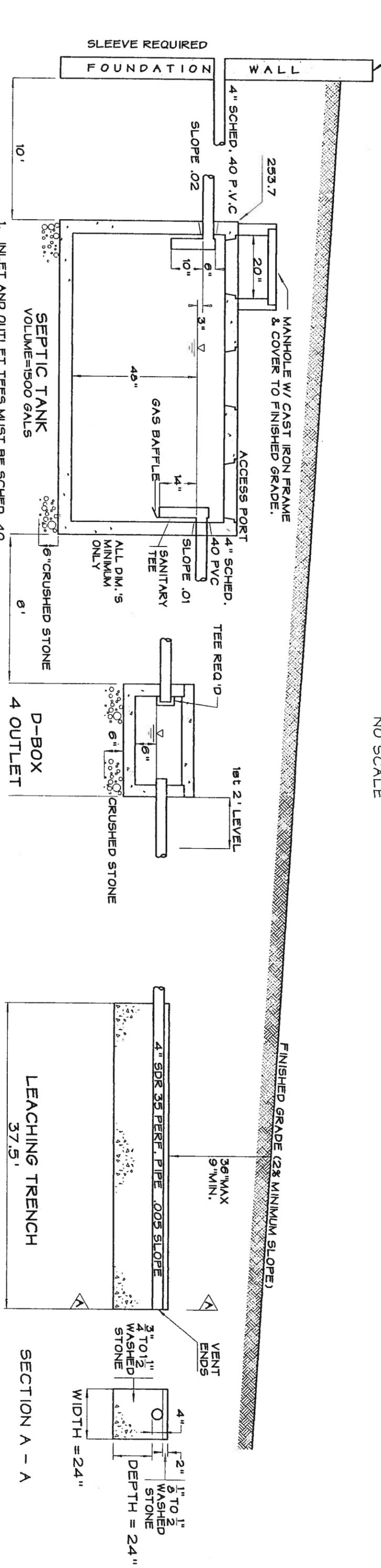
277 CENTRAL ST  
 ACTON, MA 01720  
 P.O. BOX 6  
 (978)263-36

(KED)5426SDS.2D

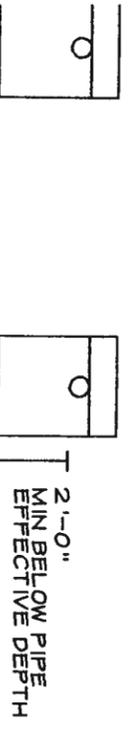


# PROFILE

NO SCALE



1. INLET AND OUTLET TEES MUST BE SCHED. 40
  2. ACCESS COVER MUST BE AT LEAST 20"
  3. SEPTIC TANK MUST BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH 310 CMR 15.300.
- DIMENSIONS ARE MINIMUM ONLY.



TRENCHES REQUIRED

## SOIL TESTS

1. PERCOLATION RATES: (MIN/IN)

P#	RATE	DEPTH	DATE
1298-A	14 MIN/IN	49"	12/22/98
1298-B	13 MIN/IN	42"	12/22/98

2. OBSERVATION HOLE DATA

ENGINEER: MARK T. DONOHUE

B.O.H. AGENT: D. DUNBAR

## DESIGN ELEVATIONS

TOP OF FOUNDATIONS	255.0
<u>INVERTS</u>	
AT FOUNDATION	252.85
AT SEPTIC TANK INLET	252.65
AT SEPTIC TANK OUTLET	252.40
AT D-BOX INLET	252.30
AT D-BOX OUTLET	252.13

## CROSS-SECTION

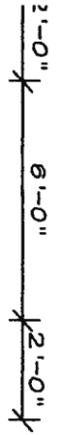
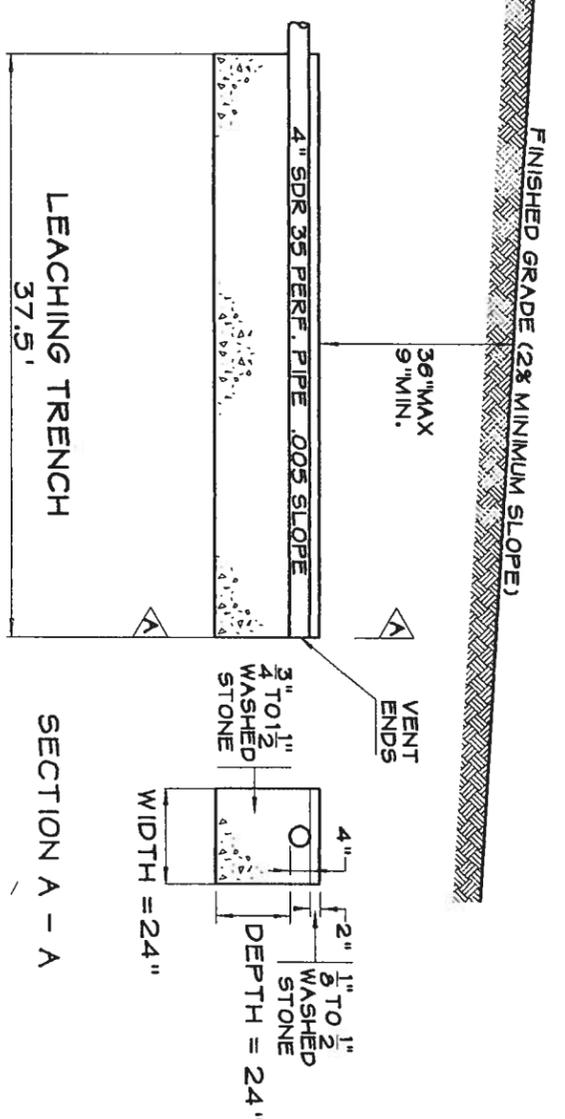
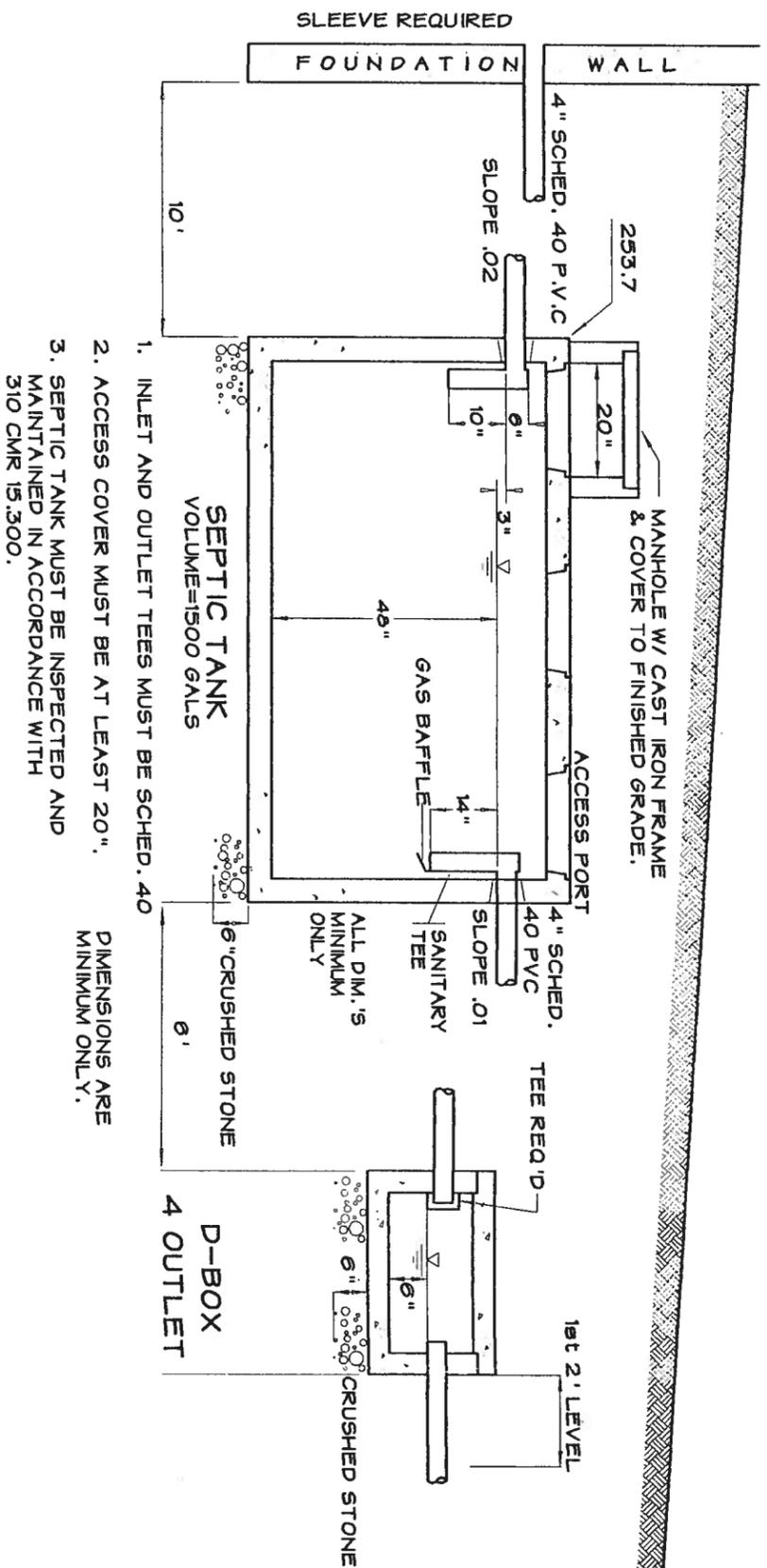
N.T.S.

DEEP HOLE # 1298-4  
 On-site Review  
 Date: 12/22/98 10:00AM  
 Weather: OVERCAST/RAIN 30'S  
 SURFACE  
 Elevation: 247.9 Slope: 2-5 Stones: PRESENT/WALLS  
 Landuse: VACANT LOT  
 Vegetation: 2ND GROWTH/ PIONEER  
 Landform: GROUND MORaine  
 Parent Material: ABLATION TILL  
 Remarks:

DEEP HOLE # 1298-1  
 On-site Review  
 Date: 12/22/98 10:00AM  
 Weather: OVERCAST/RAIN 30'S  
 SURFACE  
 Elevation: 249.4 Slope: 2-5 Stones: PRESENT/WALLS  
 Landuse: VACANT LOT  
 Vegetation: 2ND GROWTH/ PIONEER  
 Landform: GROUND MORaine  
 Parent Material: ABLATION TILL  
 Remarks:

TRENCH NO.	TOP @ START	INV @ START	INV @ END	BOTTOM
1	252.5	252.00	251.81	249.81
2	252.00	251.50	251.31	249.31
3	251.50	251.00	250.81	248.81
4	251.00	250.50	250.31	248.31





TRENCHES REQUIRED

### CROSS-SECTION

N.T.S.

DEEP HOLE # 1298-4

On-site Review  
Date: 12/22/98 10:00AM  
Weather: OVERCAST/RAIN 30'S

SURFACE Elevation: 247.9 slope: 2-5 Stones: PRESENT/WALLS  
Landuse: VACANT LOT  
Vegetation: 2ND GROWTH/ PIONEER  
Landform: GROUND MORaine  
Parent Material: ABLATION TILL

### DEEP OBSERVATION HOLE LOG

Depth to	Horizon	Texture	Color	Soil Mottling	Other
0-7	AP	SL	10YR3/3	<5	CRUMB MASS/RIABLE
7-23	BW	SL	10YR6/6	<5	10% GRAVEL
23-123	C	SL	2.5Y6/4	BELOW 47"	>20% 7.5YR6/6 STONE COBBLES BOULDERS SOME SLIGHTLY ROUNDED

### SOIL TESTS

1. PERCOLATION RATES: (MIN/IN)

P#	RATE	DEPTH	DATE
1298-A	14 MIN/IN	49"	12/22/98
1298-B	13 MIN/IN	42"	12/22/98

2. OBSERVATION HOLE DATA

ENGINEER: MARK T. DONOHUE

B.O.H. AGENT: D. DUNBAR

DEEP HOLE # 1298-1

On-site Review  
Date: 12/22/98 10:00AM  
Weather: OVERCAST/RAIN 30'S

SURFACE Elevation: 249.4 slope: 2-5 Stones: PRESENT/WALLS  
Landuse: VACANT LOT  
Vegetation: 2ND GROWTH/ PIONEER  
Landform: GROUND MORaine  
Parent Material: ABLATION TILL

### DEEP OBSERVATION HOLE LOG

Depth to	Horizon	Texture	Color	Soil Mottling	Other
0-6	AP	SL	10YR3/3	<5	CRUMB MASS/RIABLE
6-21	BW	SL	10YR6/6	<5	LOOSE - 5%
21-115	C1	SL	2.5Y6/4	BELOW 46"	>10 7.5YR6/6 STONE COBBLES BOULDERS SOME SLIGHTLY ROUNDED ROOTS 72"

### DESIGN ELEVATIONS

TOP OF FOUNDATIONS 255.0

#### INVERTS

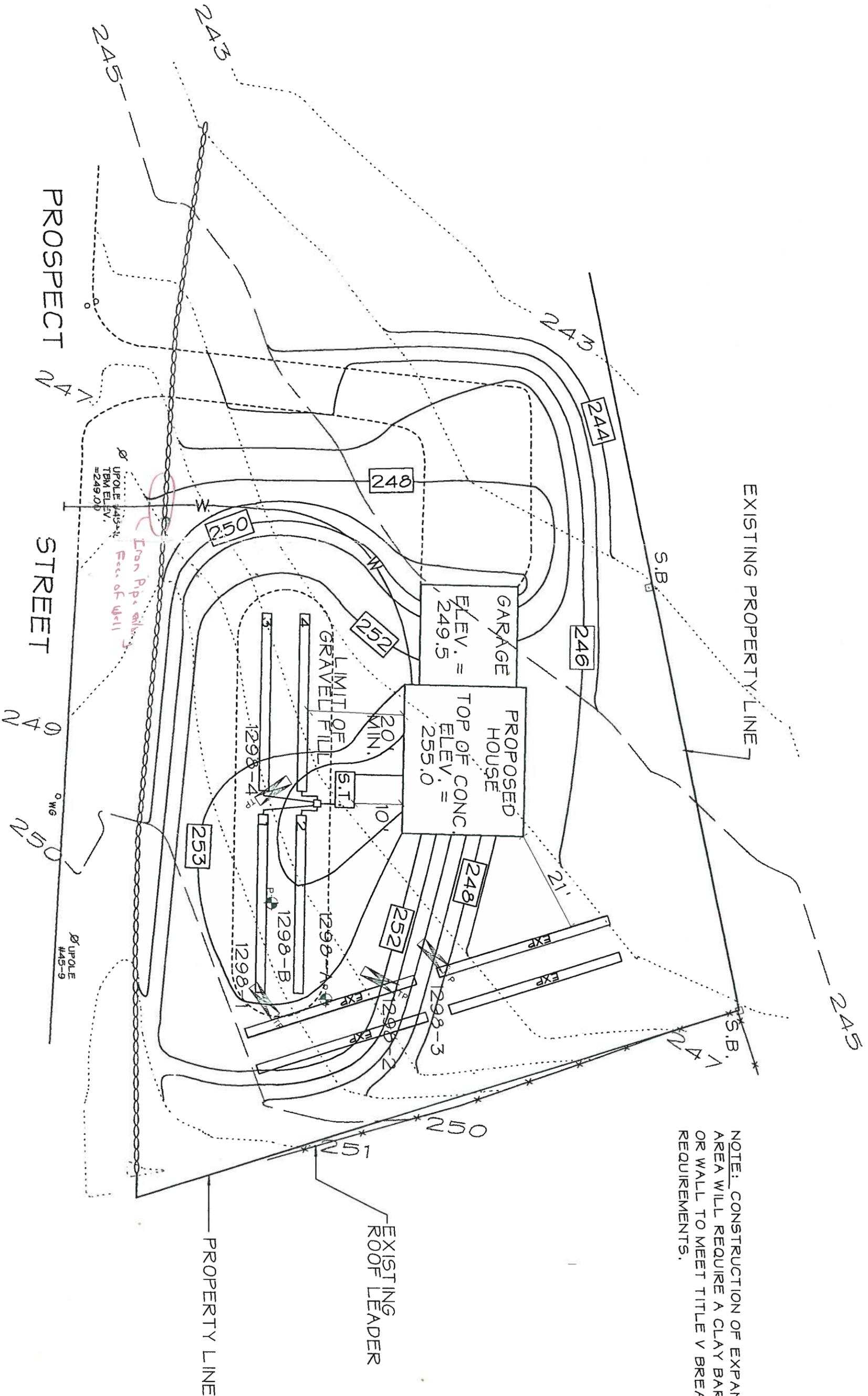
AT FOUNDATION	252.85
AT SEPTIC TANK INLET	252.65
AT SEPTIC TANK OUTLET	252.40
AT D-BOX INLET	252.30
AT D-BOX OUTLET	252.13

TRENCH NO.	TOP @ START	INV @ START	INV @ END	BOTTOM
1	252.5	252.00	251.81	249.81
2	252.00	251.50	251.31	249.31
3	251.50	251.00	250.81	248.81
4	251.00	250.50	250.31	248.31

LENGTH OF TRENCHES: 37' MINIMUM SPACING: 6'

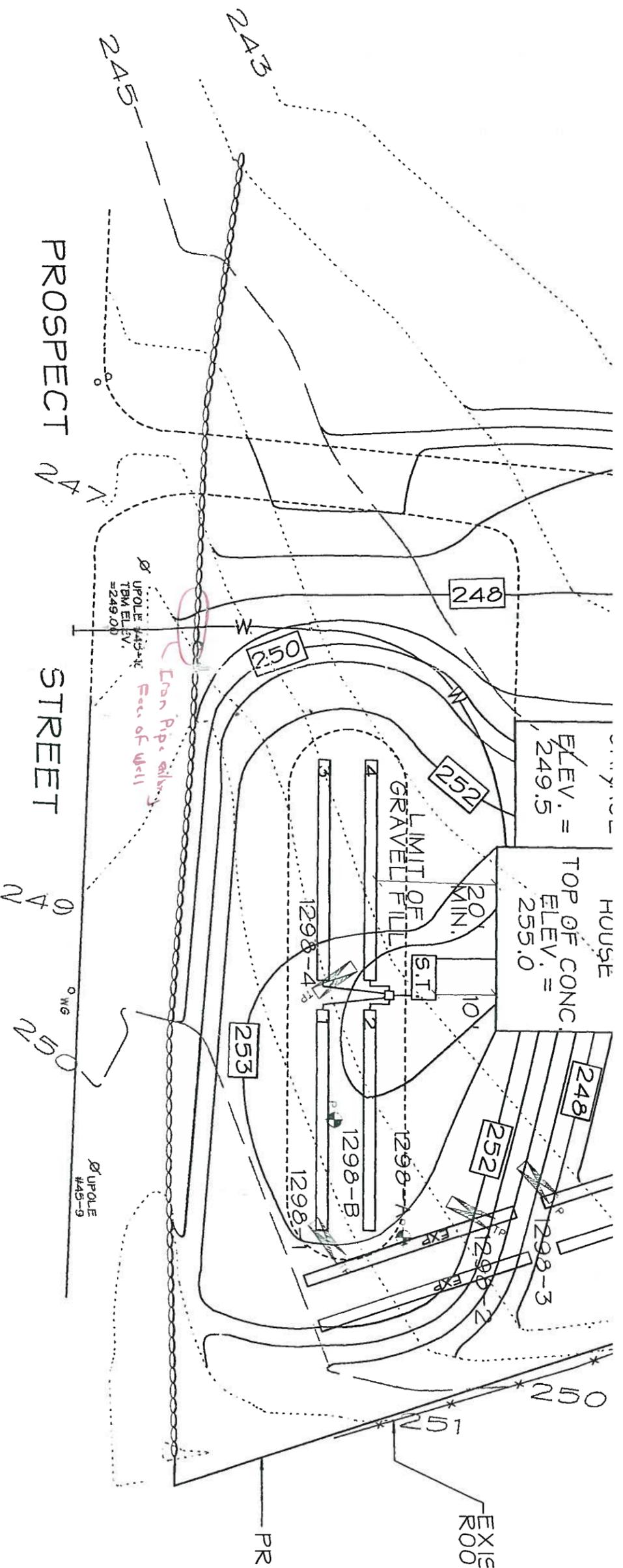
### DESIGN CRITERIA





NOTE: CONSTRUCTION OF EXPAN AREA WILL REQUIRE A CLAY BAR OR WALL TO MEET TITLE V BREV REQUIREMENTS.





# LEGEND

- S.T. SEPTIC TANK
- D-BOX DISTRIBUTION BOX
- X T P OBSERVATION HOLE (TEST PIT)
- P PERCOLATION TEST
- 99.34 SPOT ELEVATIONS
- ± WATER TABLE
- 196--- EXISTING CONTOURS
- 190--- PROPOSED CONTOURS
- W — PROPOSED WATER LINE



## GENERAL NOTES

PLAN WAS PREPARED FOR NAMED CLIENT, TO SHOW THE DESIGN OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM IN ACCORDANCE WITH TITLE 5 AND ANY MORE RESTRICTIVE REGULATIONS OF THE BOARD OF HEALTH. BUILDINGS AND PROPERTY LINES ARE GRAPHIC, ONLY. PROPERTY PLANS, ZONING REGULATIONS, ETC. SHALL BE REVIEWED AND CONFIRMED AS BEING MOST RECENT. OTHER REGULATIONS, INCLUDING WETLANDS, MAY APPLY TO CONSTRUCTION. DESIGN IS BASED ON A TOPOGRAPHIC PLAN SHOWING THE VISUALLY APPARENT FEATURE OF THE SITE, IN THE ENVIRONS OF THE SYSTEM, ON THE DATE OF TOPOGRAPHY, AND THE SUBSURFACE EXPLORATIONS LISTED ON THIS PLAN. CONTRACTOR SHALL INFORM ENGINEER OF ANY DEFICIENCIES PRIOR TO INITIATION OF CONSTRUCTION. SEWAGE DISPOSAL SYSTEM SHALL BE OFFSET A MINIMUM OF 10' FROM ANY DRAIN, 50' FROM ANY SURFACE WATERS OR WETLANDS, 100 FEET FROM WATER SUPPLIES, OR AS OTHERWISE REQUIRED BY STATE AND LOCAL REGULATIONS. ALL KNOWN DRINKING WELLS WITHIN 200' OF THE SEWAGE DISPOSAL SYSTEM ARE SHOWN, OR INDICATED. ALL KNOWN SEWAGE DISPOSAL SYSTEMS WITHIN 200' OF THE PROPOSED WELL ARE SHOWN OR INDICATED, UNLESS A COMMUNITY WATER SUPPLY IS TO BE UTILIZED. THE SYSTEM SHALL BE PROPERLY MAINTAINED AND UTILIZED INCLUDING, BUT NOT LIMITED TO, THE PUMPING OF THE SEPTIC TANK WHEN THE SLUDGE DEPTH EXCEEDS 1/8 OF THE LIQUID DEPTH (ABOUT EVERY 2 YEARS). ANY DEVIATION IN CONSTRUCTION FROM THIS PLAN, THE DESIGN AND MAINTENANCE CONDITIONS, OR TITLE 5 AND LOCAL REGULATIONS SHALL VOID ANY CERTIFICATION OR REPRESENTATION MADE RELATIVE TO THE SYSTEM.

## CONSTRUCTION NOTES

1. CONTRACTOR SHALL CALL DIG SAFE (1-888-322-4844) PRIOR TO INITIATING CONSTRUCTION.
2. CONSTRUCTION SHALL PROCEED IN AN ORDERLY MANNER WITH ALL COMPONENTS BEING BACKFILLED PROMPTLY.
3. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THESE PLANS, TITLE 5 AND BOARD OF HEALTH REGULATIONS UNLESS SPECIFIED OTHERWISE IN WRITING.
4. SYSTEM IS VENTED THROUGH BUILDING PLUMBING.
5. ALL STRUCTURES SHALL BE OF AN APPROVED DESIGN AND MADE WATER TIGHT.
6. ALL GRAVITY PIPING SHALL BE SCHD 40 OR SDR 35, UNLESS SPECIFIED OTHERWISE, AND INSTALLED AS REQUIRED BY MANUFACTURER.
7. DISTRIBUTION OUTLETS SHALL BE LEVEL AND AN INLET TEE CUT OFF 1" ABOVE OUTLETS] SHALL BE INSTALLED IF INLET PIPE SLOPES EXCEED 8%.
8. ALL LARGE BOULDERS, ROOTS AND OTHER UNSUITABLE MATERIALS ENCOUNTERED IN EXCAVATIONS SHALL BE REMOVED.
9. ALL SURFACES SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL OR STONE.
10. WHEN GRAVEL FILL IS REQUIRED ALL ORGANIC MATERIAL SHALL BE REMOVED AND FILL, IN ACCORDANCE WITH 310CMR 15.255, SHALL BE PLACED IN A MANNER WHICH WILL PROVIDE SUPPORT AND PERCOLATION STONE SHALL BE DURABLE AND FREE FROM IRON, FINES AND DUST IN PLACE.
11. ALL BACKFILL AND OTHER FILL SHALL BE CLEAN EARTHEN MATERIAL FREE OF LARGE STONES AND FROZEN MATERIAL PLACED TO SUPPORT THE SYSTEM, INSURE RUNOFF, AND BE STABILIZED TO PREVENT EROSION.
- 12.

EXISTING PROPERTY LINE



NOTE: CONSTRUCTION OF EXPAN AREA WILL REQUIRE A CLAY BAR OR WALL TO MEET TITLE V BREA REQUIREMENTS.

