

RED ROBIN PASTURES

DOVER, MASSACHUSETTS

CONSULTANTS LEGEND

OWNER/ DEVELOPER:

RED ROBIN PASTURES, LLC.
1218 GREAT PLAIN AVE.
NEEDHAM, MA 02492
Phone: 617 602-8153
Attention: PAUL McGOVERN
paul@pgcminc.com

DEVELOPMENT CONSULTANTS:

SEB, LLC / Strategic Land Ventures, LLC
257 HILLSIDE AVENUE
NEEDHAM, MA 02494
Phone: 617 782-2300 *202
Attention: GEOFF ENGLER
gengler@s-e-b.com

CIVIL ENGINEER:

RONALD TIBIERI, PE
9 MASSACHUSETTS AVENUE
NATICK, MA 01760
Phone: 617 592-6122

ARCHITECT:

SIGNATURE DESIGNS-ARCHITECTURE
73 BISHOP ROAD
SHARON, MA 02067
Phone: 781 806-0063
Attention: Henry Bobek, RA
bobekh@aol.com

STRUCTURAL ENGINEERING:

THE DEMPSEY GROUP
P.O. BOX 927
HARWICH, MA 02661
Phone: 508 326-5498
Attention: Richard Dempsey, PE
tdgstructural@comcast.net

M/E/P & FIRE PROTECTION ENGINEER:

WOZNY/ BABAR & ASSOC., INC.
1076 WASHINGTON STREET
HANOVER, MA 02860
Phone: 781 826-4144
Attention: ZBIGNIEW WOZNY, PE
zwozny@wbaengineers.com

SURVEYOR:

CHENEY ENGINEERING CO., INC.
153 MELLE STREET
NEEDHAM, MA 02494
Phone: 781 444-2188
Attention: Ardi Rrapi
ardi.rrapi@cheney-eng.com

GEOTECHNICAL CONSULTANTS:

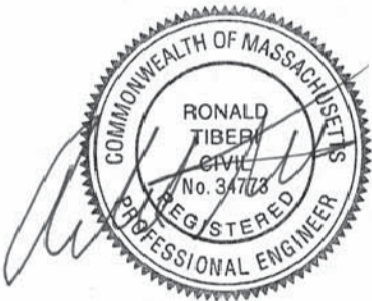
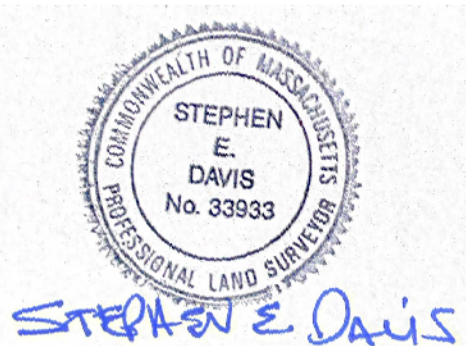
GEOTECHNICAL CONSULTANTS, INC.
201 BOSTON POST ROAD WEST
MARLBOROUGH, MA 01752
Phone: 508 229-0900
info@geotechnical.us

TRANSPORTATION CONSULTANT:

VANASSE & ASSOCIATES INC.
35 NEW ENGLAND BUSINESS CENTER DR
SUITE 140
ANDOVER, MA 01810
Phone: 978 269-6830
Attention: Jeffrey S. Dirk PE PTOE FITE

LANDSACPE & LIGHTING CONSULTANT:

GREEN BEAN DESIGN, INC.
SALEM MA



LIST OF DRAWINGS

CAT.	DWG	DRAWING TITLE ● NEW OR REVISED ISSUE ○ NON-REVISED ISSUE	04/27/20	12/18/20	06/14/21	09/21/21 (#3)	10/28/21 (#4)	12/02/21 (#5)	12/15/21 (#6)	01/27/22 (#7)									
TITLE	T1.0	TITLE SHEET			●	●	●	●	○	○									
SITE	C1	EXISTING CONDITIONS		●	●	●	○	●	○	○									
	C2	EROSION CONTROL PLAN (FORMERLY - SITE LAYOUT & UTILITIES)		●	●	●	●	●	○	○									
	C3	SITE LAYOUT (FORMERLY - STANDARD TITLE V SYSTEM)		●	●	●	●	●	○	●									
	C4	DRAINAGE & GRADING PLAN (FORMERLY - PRESBY SANITARY SYSTEM & DETAILS)		●		●	●	●	○	○									
	C5	UTILITIES (FORMERLY - SEPTIC SYSTEM DETAIL SHEET)		●	●	●	●	●	○	○									
	C6	PRESBY SANITARY SYSTEM & DTL.S (FORMERLY - DRAINAGE & GRADING PLAN)		●	●	●	●	●	○	○									
	C6.1	DETAIL SHEET		●															
	C7	SEPTIC SYSTEM DETAIL SHEET		●		●	●	○	○	○									
	C8	STANDARD TITLE V SYSTEM (FORMERLY - DETAIL SHEET)				●	●	●	○	○									
	C9	FIRE ACCESS (FORMERLY - DETAIL SHEET)				●	●	●	○	○									
	C10	DETAIL SHEET (FORMERLY - FIRE ACCESS & SSD)				●	●	○	○	○									
	C11	DETAIL SHEET (FORMERLY - DRAINAGE & GRADING PLAN)				●	●	○	○	○									
	C12	DETAIL SHEET					●	○	○	○									
	C13	RETAINING WALL SECTIONS & ELEV.S (FORMERLY SHEET RW1)					●	○	○	●									
	C14	RETAINING WALL SECTIONS & ELEV.S (FORMERLY SHEET RW2)					●	○	○	○									
ARCHITECTURAL	A1	FIRST FLOOR PLAN		●	○		●	●		○	○								
	A1.0	BASEMENT FLOOR PLAN					●	○		○	○								
	A1.1	GROUND FLOOR PLAN W/ SURROUNDING SITE				●	●	●		○	○								
	A2	SECOND FLOOR PLAN		●	○		●	○		○	○								
	A3	THIRD FLOOR PLAN		●	○		●	○		○	○								
	A4	ROOF PLAN		●	○			●		○	○								
	A5	MAIN ENTRY/STREET & PARKING LOT ELEVATIONS		●	○		●	●		○	○								
	A5.1	MASSING ELEVATIONS				●													
	A6	EAST & WEST ELEVATIONS		●	○		●	●		○	○								
	A7	BUILDING SECTIONS & 1 BR UNIT PLANS (4/13/21 ISSUE)		●															
	A8	2 & 3 BR UNIT PLANS (4/13/21 ISSUE)		●															
LANDSCAPING	L1	LANDSCAPE PLAN			●		●	●	●	●	●								
	L2	LANDSCAPE LIGHTING PLAN			●			●	○	○	●								
	RW1	RETAINING WALL SECTIONS & ELEV.S (CHANGED TO SHEET C13)			●	●													
	RW2	RETAINING WALL SECTIONS & ELEV.S (CHANGED TO SHEET C14)			●	●													

FOR REGISTRY USE

I CERTIFY THAT THIS PLAN HAS BEEN PERPAED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

DATE _____ RONALD TIBERI P.E.

I, _____ Clerk of the Town of Dover, received and recorded approval from the Zoning Board of Appeals of this plan and its corresponding decision on _____ and no appeal was taken for twenty (20) days, thereafter.
(Signature) _____ (Date) _____
This project is subject to a performance security covenant to be recorded herewith.

Rev. #	Date
3	09/21/21
4	12/18/21
5	12/02/21
6	12/15/21

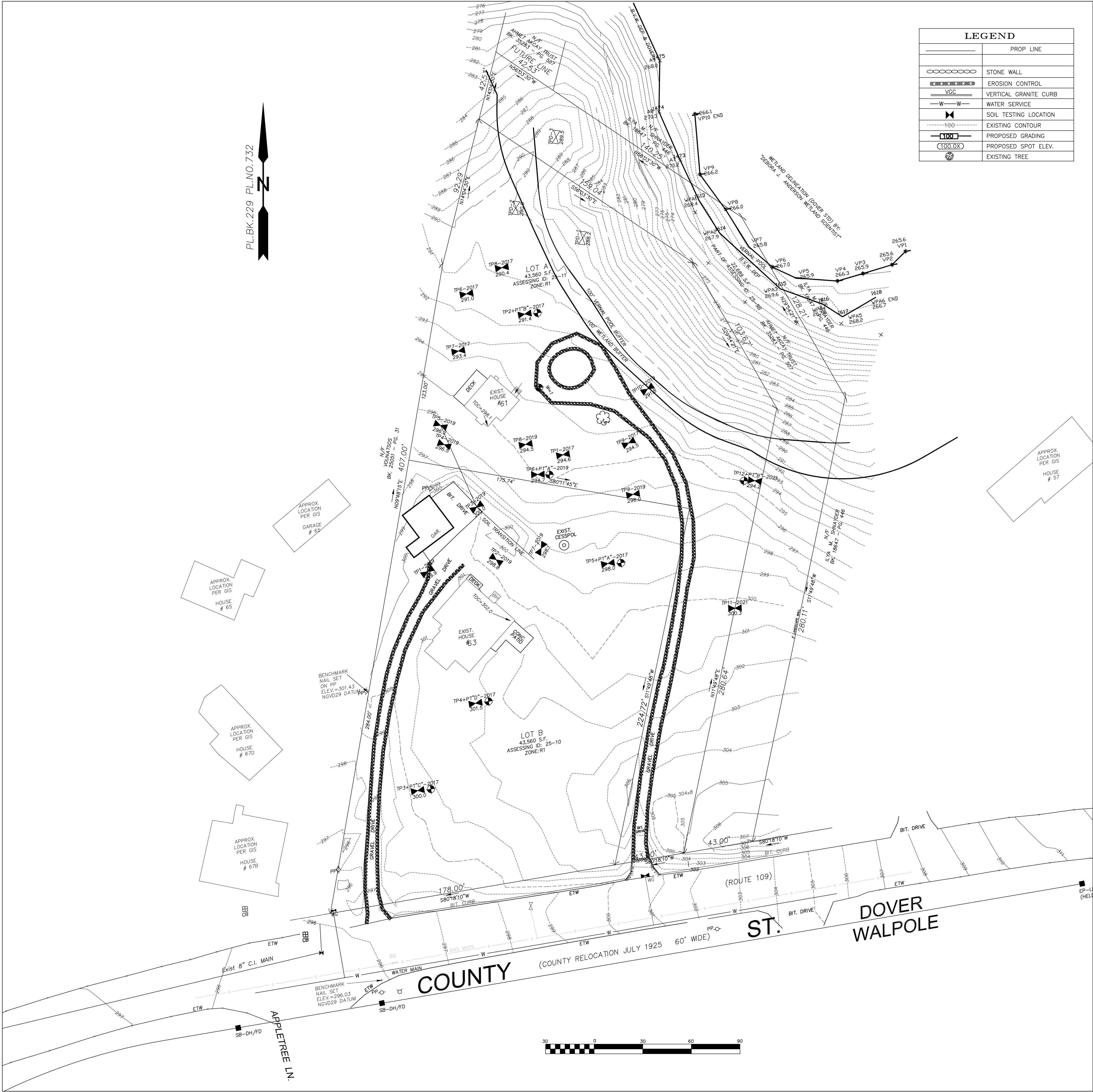
Designer/Drafter	HB	Scale	N/A	Date
				06/14/21

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TITLE SHEET RED ROBIN PASTURES COUNTY STREET, DOVER, MA

Design & Drafting services performed by: Signature Designs ARCHITECTURE 73 Bishop Road, Sharon, MA 02067 781 806-0063

Sheet No. T1



LEGEND	
	PROP. LINE
○-○-○-○-○	STONE WALL
ER-300-300-300-300-300	EROSION CONTROL
VGC	VERTICAL GRANITE CURB
—W—W—W—	WATER SERVICE
⬢	SOIL TESTING LOCATION
-----100-----	EXISTING CONTOUR
100	PROPOSED GRADING
(100.0X)	PROPOSED SPOT ELEV.
⊗	EXISTING TREE

Design & Drafting services performed by:

Signature Designs
ARCHITECTURE

73 Bishop Road, Sharon, MA 02067 781 886-8065

Drawing Description

RED ROBIN PASTURES
DOVER MASS
EXISTING CONDITIONS

Design & Drafting services performed by:

Signature Designs
ARCHITECTURE

73 Bishop Road, Sharon, MA 02067 781 886-8065

Use and Interpretation of this Drawing

1. By use of these Construction Drawings (CD's) the CONTRACTOR represents that he has visited the site, familiarized himself with the local conditions, verified field dimensions and correlated his observations with the requirements of the CD's. Plan examinee shall not accept said titleblock, project address, or any other information contained herein as a representation of the actual conditions of the site. The CONTRACTOR shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

2. No part of this drawing shall be used for any other project without the written consent of the CONTRACTOR. The CONTRACTOR shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

3. SD-A is providing Design/Drafting & Limited Site Verification services. SD-A is not responsible for site violations or verifying. A project is built in accordance with CD's. It is the responsibility of the CONTRACTOR to ensure that the project is built in accordance with the CD's and to maintain the project in accordance with industry standards.

Rev. #

1

2

3

4

Comments

12/16/20

09/14/21

09/14/21

12/09/21

Designer/Draftsman

RT

Scale

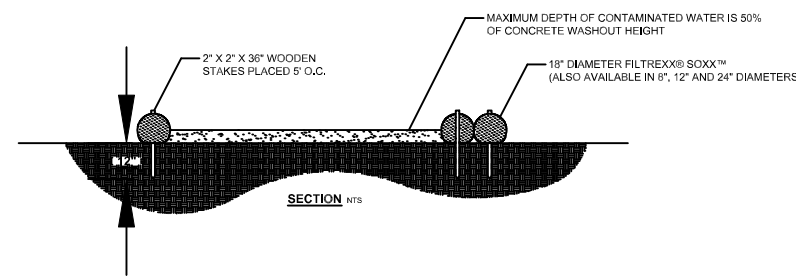
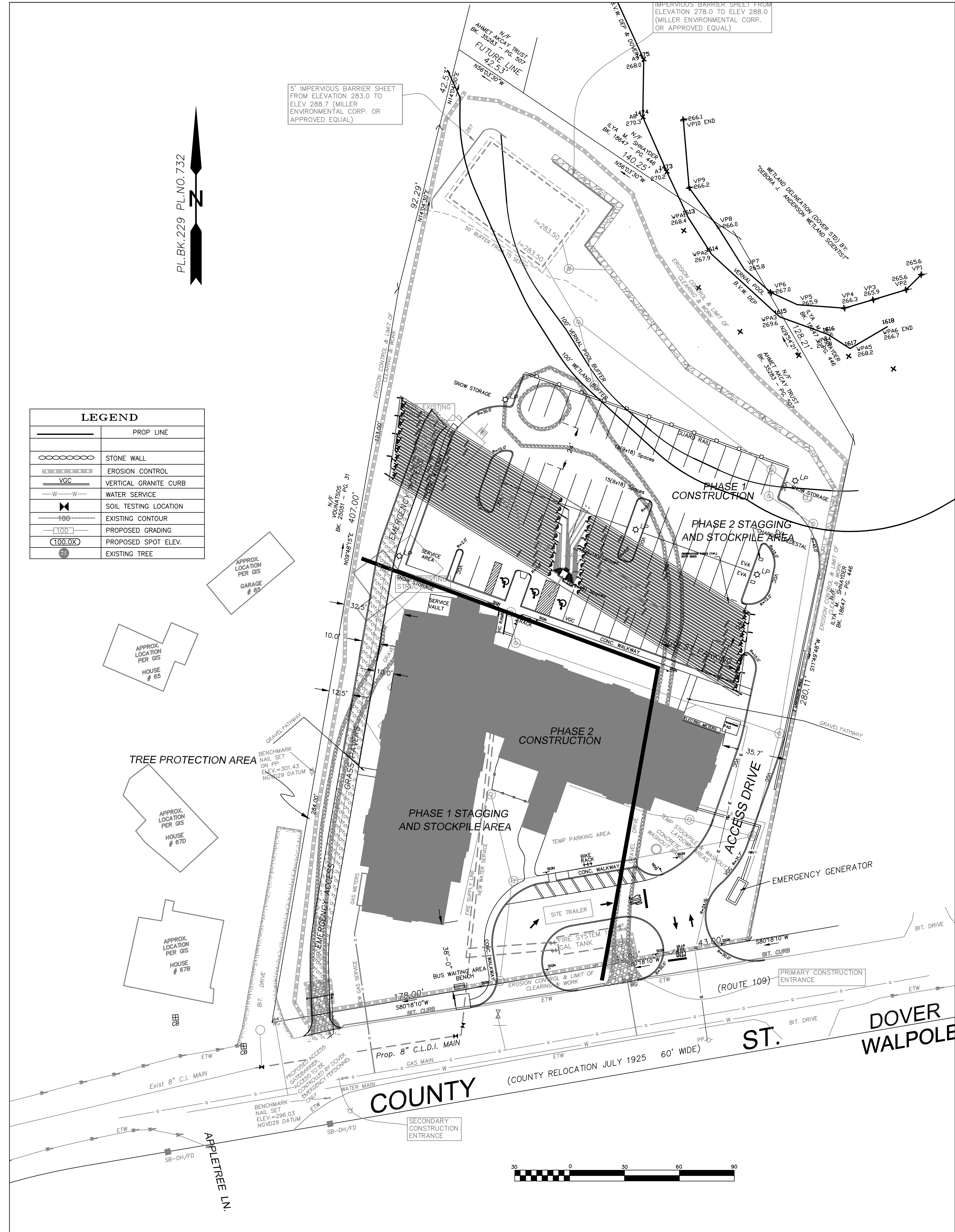
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Date

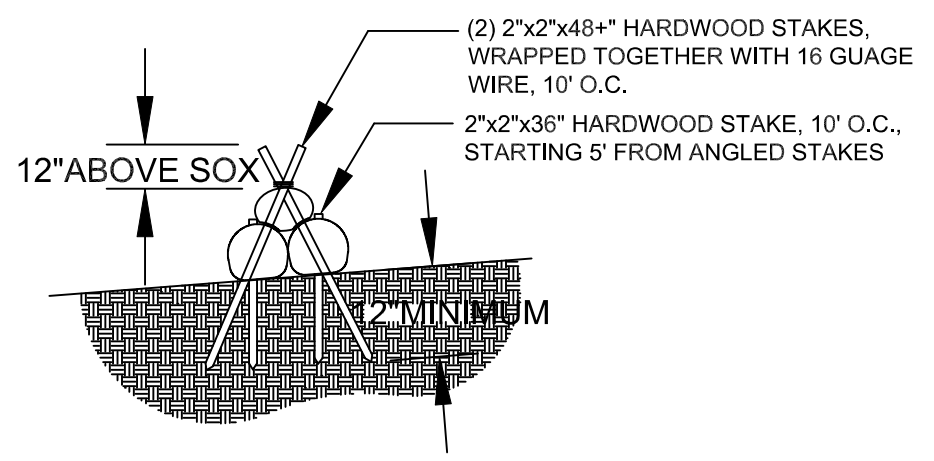
12-18-20

PL.BK.229 PL.NO.732

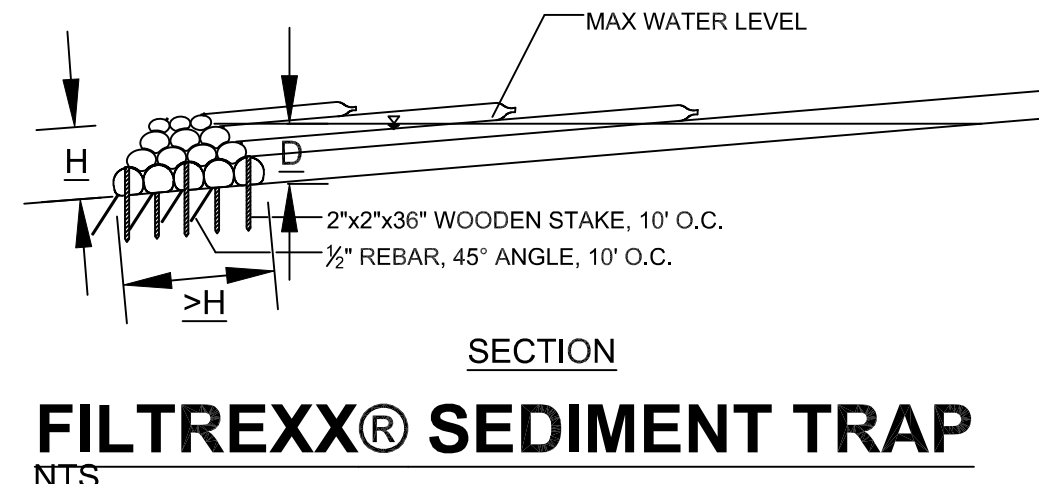
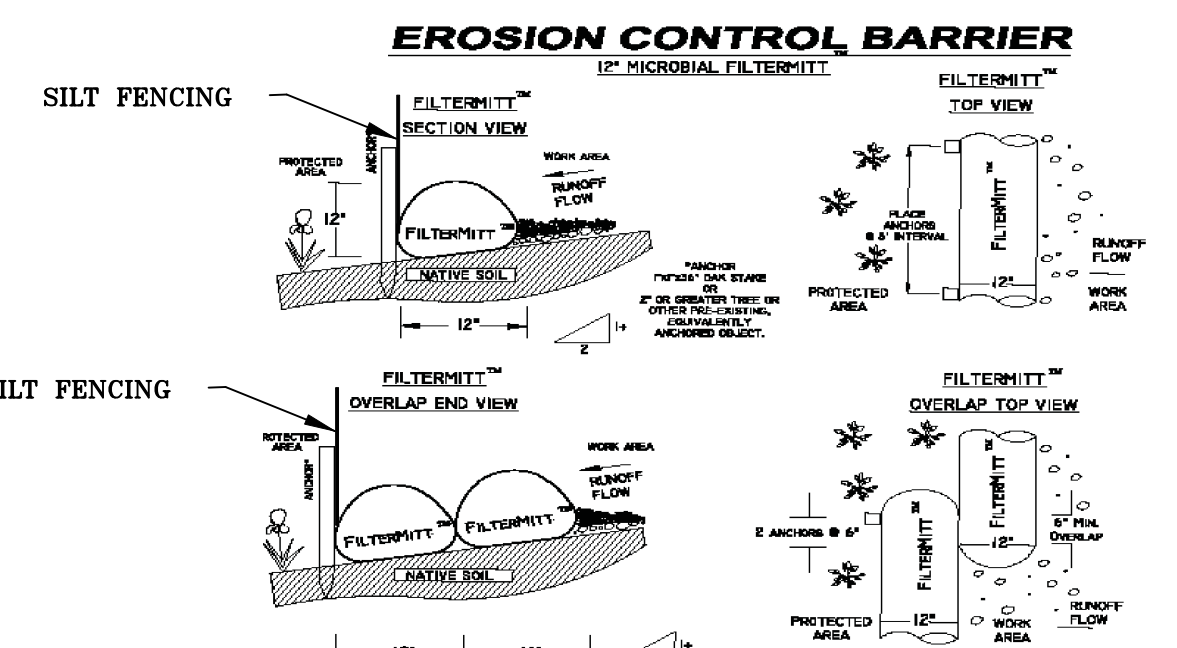
LEGEND	
	PROP. LINE
	STONE WALL
	EROSION CONTROL
	VERTICAL GRANITE CURB
	WATER SERVICE
	SOIL TESTING LOCATION
	EXISTING CONTOUR
	PROPOSED GRADING
	PROPOSED SPOT ELEV.
	EXISTING TREE



FILTREXX® CONCRETE WASHOUT



FILTREXX® SEDIMENT TRAP STAKING DETAIL



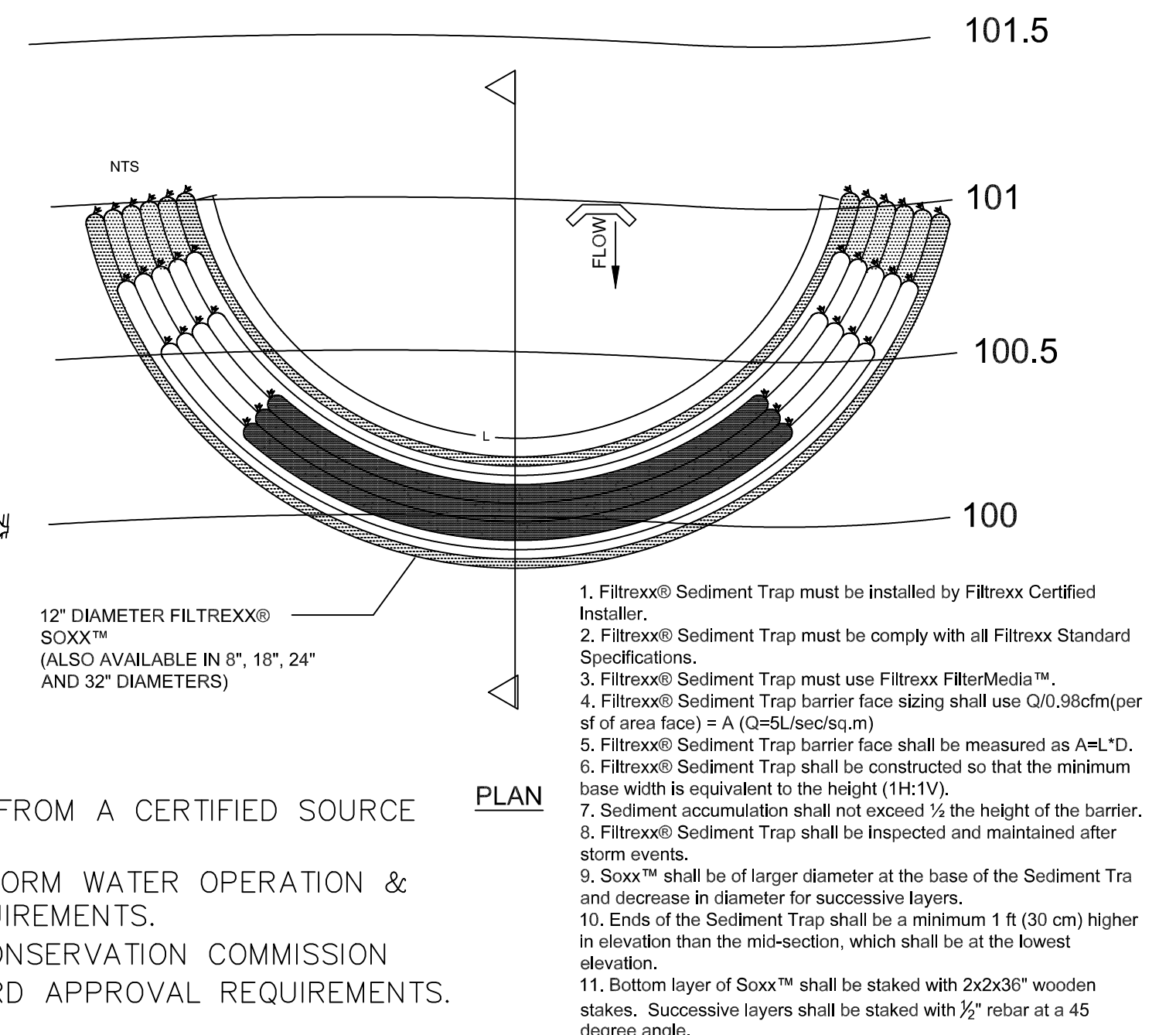
FILTREXX® SEDIMENT TRAP

SITE NOTES

1. AREA OF DISTURBANCE IS 109000 SF
2. ALL FILL SHALL MEET APPROVED STANDARDS FROM A CERTIFIED SOURCE AS REQUIRED.
3. CONTRACTOR SHALL BE FAMILIAR WITH ALL STORM WATER OPERATION & MAINTENANCE PLAN AND SPILL PREVENTION REQUIREMENTS.
4. CONTRACTOR SHALL BE FAMILIAR WITH ALL CONSERVATION COMMISSION NOTICE OF INTENT CONDITIONS AND ZONING BOARD APPROVAL REQUIREMENTS.

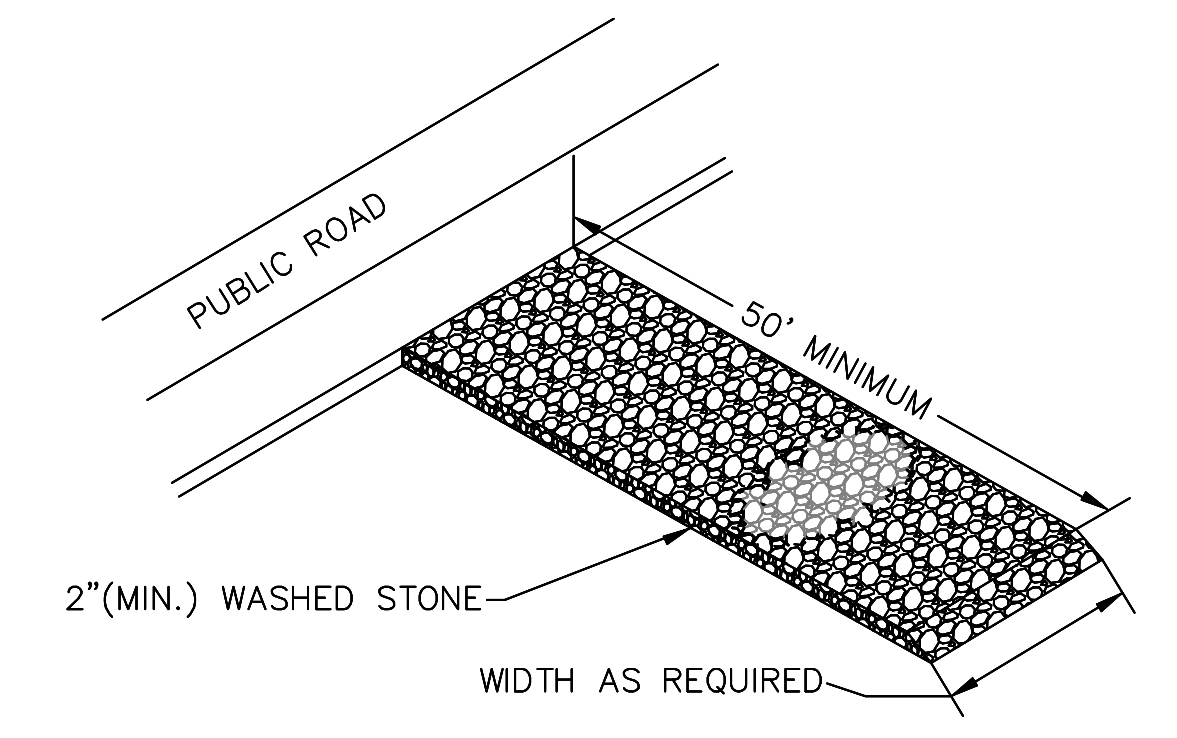
Approximate Construction Sequence:

- Phase 1.
- Install perimeter fencing and erosion control around perimeter of site.
Site clearance.
Build temporary construction entrance on west side of site.
Locate staging area at front of site.
Setup temporary services.
Build retaining wall at rear of site.
Install drainage and septic structures.
Construct driveway.
Build parking lot to rough grade.
- Phase 2.
- Relocate construction staging area to rear of site.
Construction entrance shift to driveway along East of site.
Construction of structure.
Completion of all siteworks/landscaping/hardscaping, etc.
Installation of permanent perimeter fencing.



PLAN

1. Filtrxxx® Sediment Trap must be installed by Filtrxxx Certified Installer.
2. Filtrxxx® Sediment Trap must be installed with all Filtrxxx Standard Specifications.
3. Filtrxxx® Sediment Trap must use Filtrxxx FilterMedia™.
4. Filtrxxx® Sediment Trap barrier face sizing shall use Q/0.98cfm(per sq ft of area face) = A (Q=5L/sec/sq.m)
5. Filtrxxx® Sediment Trap barrier face shall be measured as A=L*D.
6. Filtrxxx® Sediment Trap shall be constructed so that the minimum base width is equivalent to the height (H:1V).
7. Sediment accumulation shall not exceed 1/2 the height of the barrier.
8. Filtrxxx® Sediment Trap shall be inspected and maintained after storm events.
9. Sox® shall be of larger diameter at the base of the Sediment Tra and decrease in diameter for successive layers.
10. Ends of the Sediment Trap shall be a minimum 1 ft (30 cm) higher in elevation than the mid-section, which shall be at the lowest elevation.
11. Bottom layer of Sox® shall be staked with 2x2x36 inch wooden stakes. Successive layers shall be staked with 1/2 inch rebar at a 45 degree angle.



CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

DATE: 12/18/20
COMMIT REVISIONS: 09/14/21
COMMIT REVISIONS: 09/21/21
COMMIT REVISIONS: 12/02/21
COMMIT REVISIONS: 12/02/21

DESIGNER/ENGINEER: R1
SCALE: 1"=30'
SHEET: 12-18-20

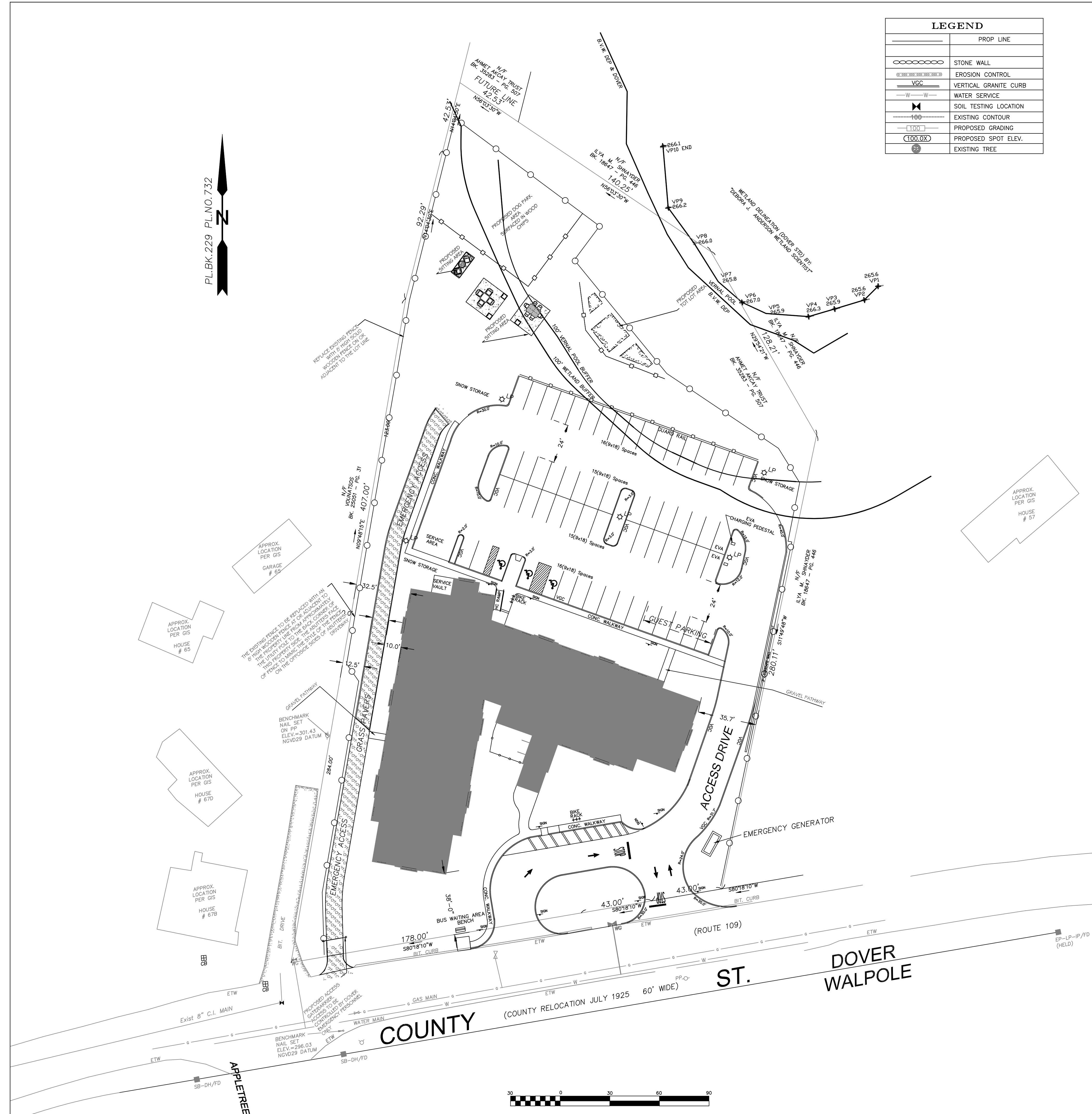
1. Use and Interpretation of this Drawing:
a. The Contractor shall be responsible for verifying the accuracy of the information provided in this drawing and for obtaining all necessary permits and approvals.
b. The Contractor shall be responsible for obtaining all necessary permits and approvals.
c. The Contractor shall be responsible for obtaining all necessary permits and approvals.
d. The Contractor shall be responsible for obtaining all necessary permits and approvals.
e. The Contractor shall be responsible for obtaining all necessary permits and approvals.
f. The Contractor shall be responsible for obtaining all necessary permits and approvals.
g. The Contractor shall be responsible for obtaining all necessary permits and approvals.
h. The Contractor shall be responsible for obtaining all necessary permits and approvals.
i. The Contractor shall be responsible for obtaining all necessary permits and approvals.
j. The Contractor shall be responsible for obtaining all necessary permits and approvals.
k. The Contractor shall be responsible for obtaining all necessary permits and approvals.
l. The Contractor shall be responsible for obtaining all necessary permits and approvals.
m. The Contractor shall be responsible for obtaining all necessary permits and approvals.
n. The Contractor shall be responsible for obtaining all necessary permits and approvals.
o. The Contractor shall be responsible for obtaining all necessary permits and approvals.
p. The Contractor shall be responsible for obtaining all necessary permits and approvals.
q. The Contractor shall be responsible for obtaining all necessary permits and approvals.
r. The Contractor shall be responsible for obtaining all necessary permits and approvals.
s. The Contractor shall be responsible for obtaining all necessary permits and approvals.
t. The Contractor shall be responsible for obtaining all necessary permits and approvals.
u. The Contractor shall be responsible for obtaining all necessary permits and approvals.
v. The Contractor shall be responsible for obtaining all necessary permits and approvals.
w. The Contractor shall be responsible for obtaining all necessary permits and approvals.
x. The Contractor shall be responsible for obtaining all necessary permits and approvals.
y. The Contractor shall be responsible for obtaining all necessary permits and approvals.
z. The Contractor shall be responsible for obtaining all necessary permits and approvals.

RED ROBIN PASTURES
DOVER MASS
EROSION CONTROL PLAN

Design & Drafting services performed by:
Signature Designs
ARCHITECTURE
73 Bishop Road, Sharon, MA 02067 781 806-0063

Sheet No:
C2

PL.BK.229 PL.NO.732



LEGEND	
	PROP LINE
	STONE WALL
	EROSION CONTROL
	VERTICAL GRANITE CURB
	WATER SERVICE
	SOIL TESTING LOCATION
	EXISTING CONTOUR
	PROPOSED GRADING
	PROPOSED SPOT ELEV.
	EXISTING TREE

LAND USAGE TABLE – R-1 SINGLE FAMILY RESIDENCE (1 ACRE)

ITEM	REQUIRED DIMENSIONAL REGULATION	PROPOSED DIMENSIONS
MINIMUM LOT AREA	43,560 SQUARE FEET OR 1.00; ACRES	109,809 SQUARE FEET OR 2.52 ACRES
MINIMUM LOT WIDTH	150 FEET	264 FEET
MINIMUM FRONT SETBACK	40 FEET	38'-0" FEET
MINIMUM SIDE SETBACK	30 FEET	32'-6" FEET
MINIMUM REAR SETBACK	30 FEET	222 FEET
MAXIMUM BUILDING HEIGHT	35 FEET (2 1/2 STORIES)	44 FEET (3 STORIES)
MAXIMUM LOT COVERAGE REQUIREMENTS BY STRUCTURES	20%	14.8% (16,321 SF)

PARKING TABLE

PARKING/UNIT	REQUIRED	PROVIDED
	1.5	1.88

Rev. #	DATE	REVISIONS
#1	12/18/20	REVISIONS
#2	09/14/21	REVISIONS
#3	09/21/21	REVISIONS
#4	10/28/21	REVISIONS
#5	12/02/21	REVISIONS
#6	12/17/22	REVISIONS

Designer/Checker	AS NOTED
DATE	12-18-20

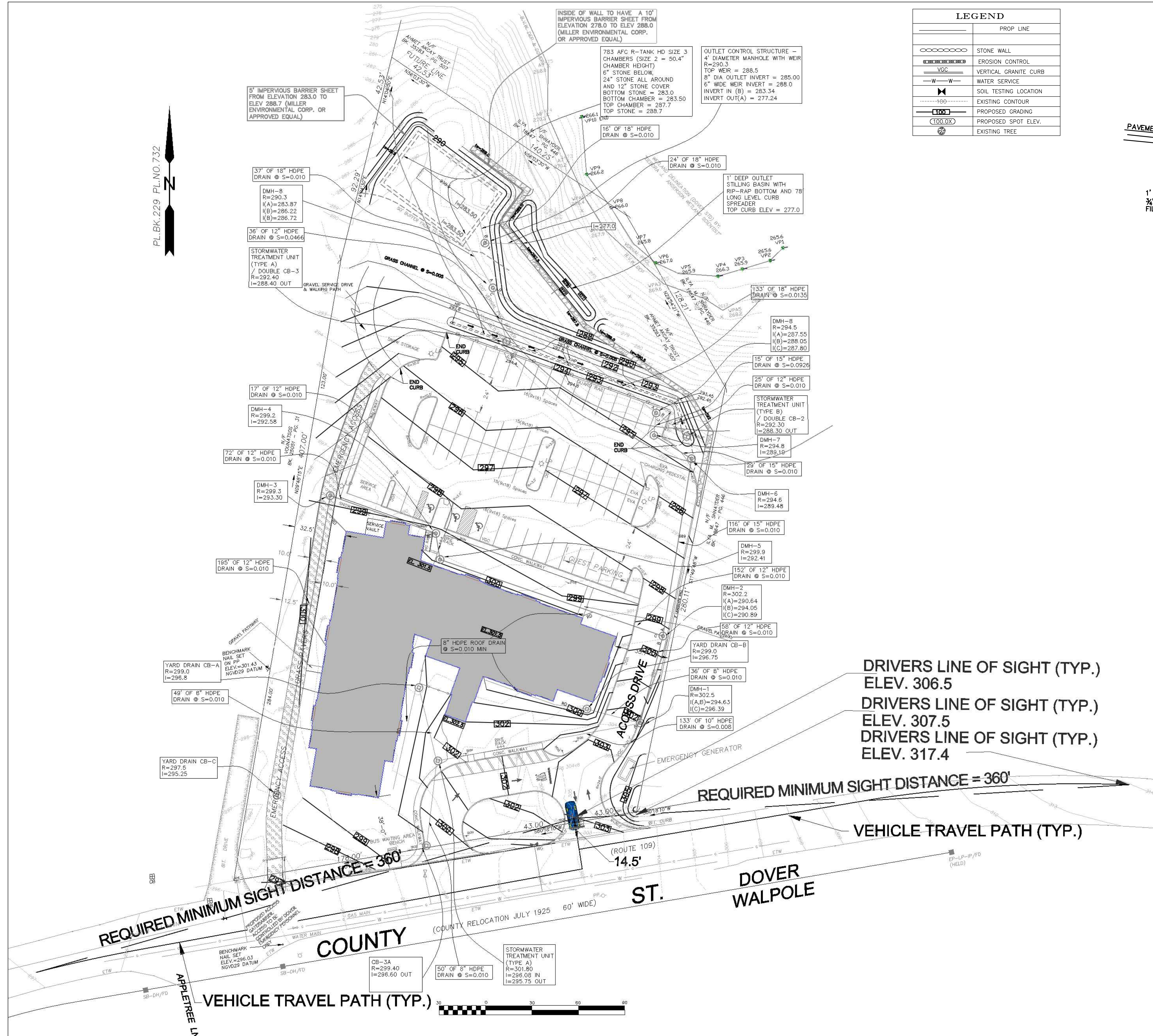
Use and Interpretation of this Drawing:
1. The CONTRACTOR represents that he has visited the site, familiarized himself with the local conditions, and verified field dimensions and correlated his observations with the requirements of the C.D.'s. **Drawings shall not be used as a basis for construction without the approval of the Designer/Checker.**
2. As instruments of service, all Drawings, Specifications and copies thereof furnished by Signature Design-Architecture (SD-A) are the property of SD-A. They are to be used only for the Project and are not to be used on any other Project. Changes to the C.D.'s may only be made by SD-A. © 2020 Signature Design-Architecture. All rights reserved. No part of this drawing may be reproduced without the written permission of Signature Design-Architecture. This drawing is to be used in accordance with the applicable laws, regulations, codes, and standards of the State of Massachusetts and the local jurisdiction. The Designer/Checker is not responsible for the construction of the project or the safety of the project. The Contractor is responsible for the construction of the project and the safety of the project.

Drawn by: **RED ROBIN PASTURES**
DOVER MASS
SITE LAYOUT

Design & Drafting services performed by:
Signature Design-Architecture
73 Bishop Road, Sharon, MA 02067 781 806-0063

Sheet No:
C3

PLBK 229 PL.N0.732

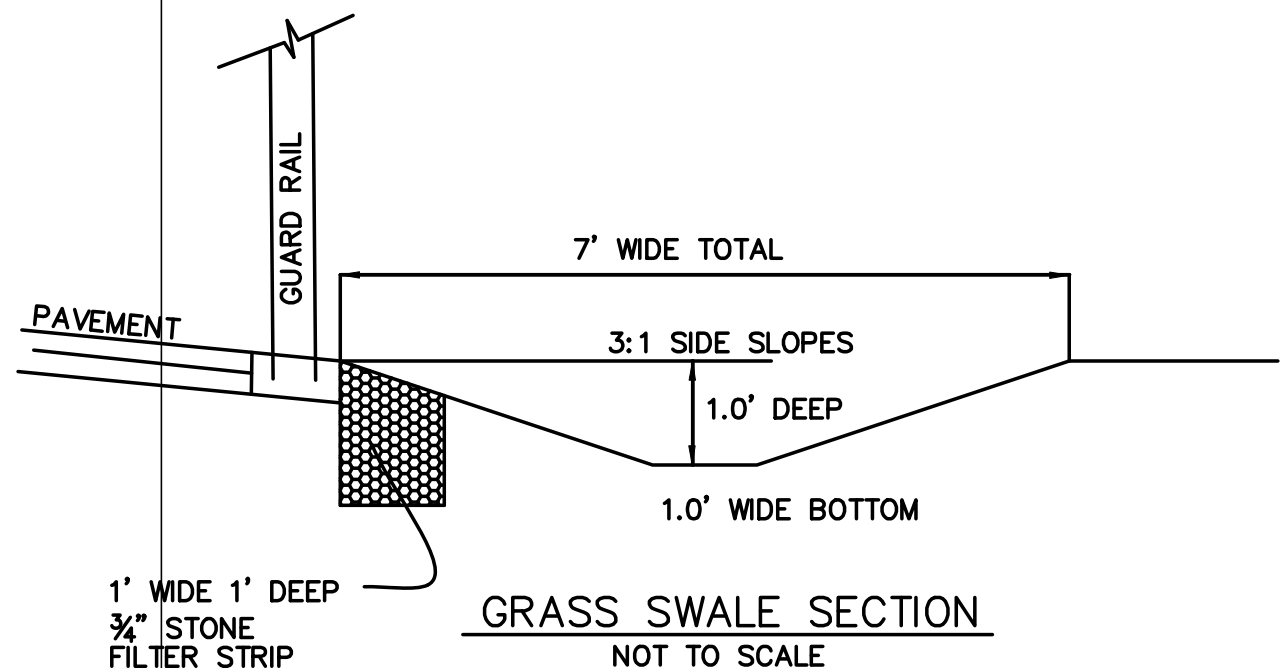


DRIVERS LINE OF SIGHT (TYP.)
ELEV. 306.5
DRIVERS LINE OF SIGHT (TYP.)
ELEV. 307.5
DRIVERS LINE OF SIGHT (TYP.)
ELEV. 317.4

REQUIRED MINIMUM SIGHT DISTANCE = 360'

VEHICLE TRAVEL PATH (TYP.)

VEHICLE TRAVEL PATH (TYP.)



LEGEND	
	PROP LINE
-----	STONE WALL
-----	EROSION CONTROL
-----	VERTICAL GRANITE CURB
-----	WATER SERVICE
-----	SOIL TESTING LOCATION
-----	EXISTING CONTOUR
-----	PROPOSED GRADING
-----	PROPOSED SPOT ELEV.
-----	EXISTING TREE

DATE: 12/13/20
DESIGNER: R. K. K. K.
CHECKER: R. K. K. K.
DATE: 12/13/20
DESIGNER: R. K. K. K.
CHECKER: R. K. K. K.
DATE: 12/13/20
DESIGNER: R. K. K. K.
CHECKER: R. K. K. K.

REVISIONS:
#1
#2
#3
#4

REVISIONS:
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REVISIONS:
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REVISIONS:
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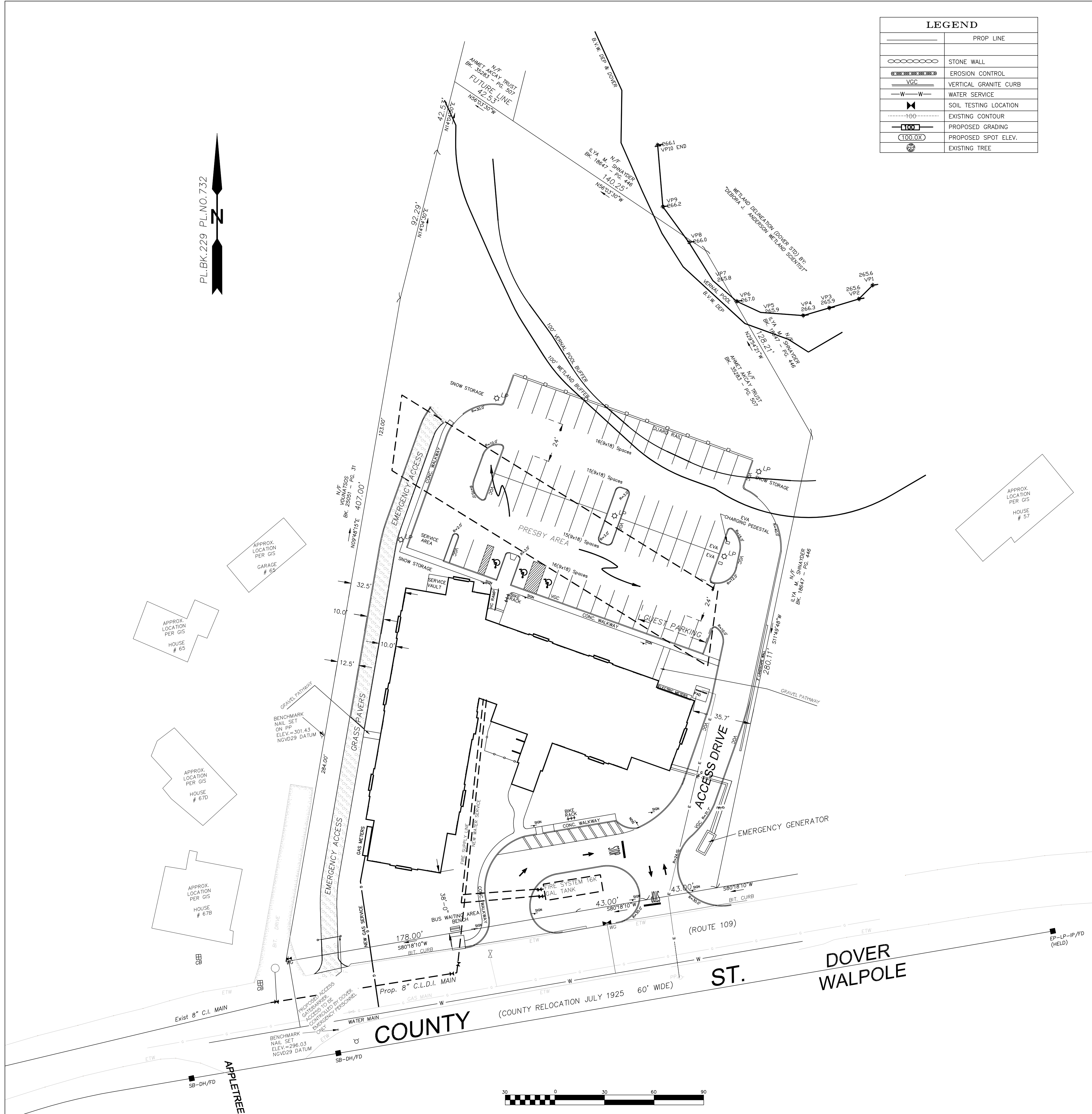
USE AND INTERPRETATION OF THIS DRAWING:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE FIELD DATA AND THE INFORMATION PROVIDED BY THE CLIENT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MATERIALS AND EQUIPMENT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LABORERS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TRANSPORTATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BONDS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LICENSES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CERTIFICATES.

DESIGNED BY: R. K. K. K.
CHECKED BY: R. K. K. K.
DATE: 12/13/20
PROJECT: RED ROBIN PASTURES
DOVER MASS
DRAINAGE & GRADING PLAN

DESIGNED BY: R. K. K. K.
CHECKED BY: R. K. K. K.
DATE: 12/13/20
PROJECT: RED ROBIN PASTURES
DOVER MASS
DRAINAGE & GRADING PLAN

DESIGNED BY: R. K. K. K.
CHECKED BY: R. K. K. K.
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DOVER MASS
DRAINAGE & GRADING PLAN



LEGEND	
	PROP LINE
	STONE WALL
	EROSION CONTROL
	VERTICAL GRANITE CURB
	WATER SERVICE
	SOIL TESTING LOCATION
	EXISTING CONTOUR
	PROPOSED GRADING
	PROPOSED SPOT ELEV.
	EXISTING TREE

Design & Drafting services performed by:

Signature Designs
ARCHITECTURE

73 Bishop Road, Sharon, MA 02067 781 806-0063

Drawings Description

RED ROBIN PASTURES
DOVER MASS
UTILITIES

Drawn by

AS NOTED

DATE

12-18-20

DATE

12/13/20

REVISIONS

#1

COMMENTS

12/13/20

REVISIONS

#2

COMMENTS

12/13/20

REVISIONS

#3

COMMENTS

12/13/20

REVISIONS

#4

COMMENTS

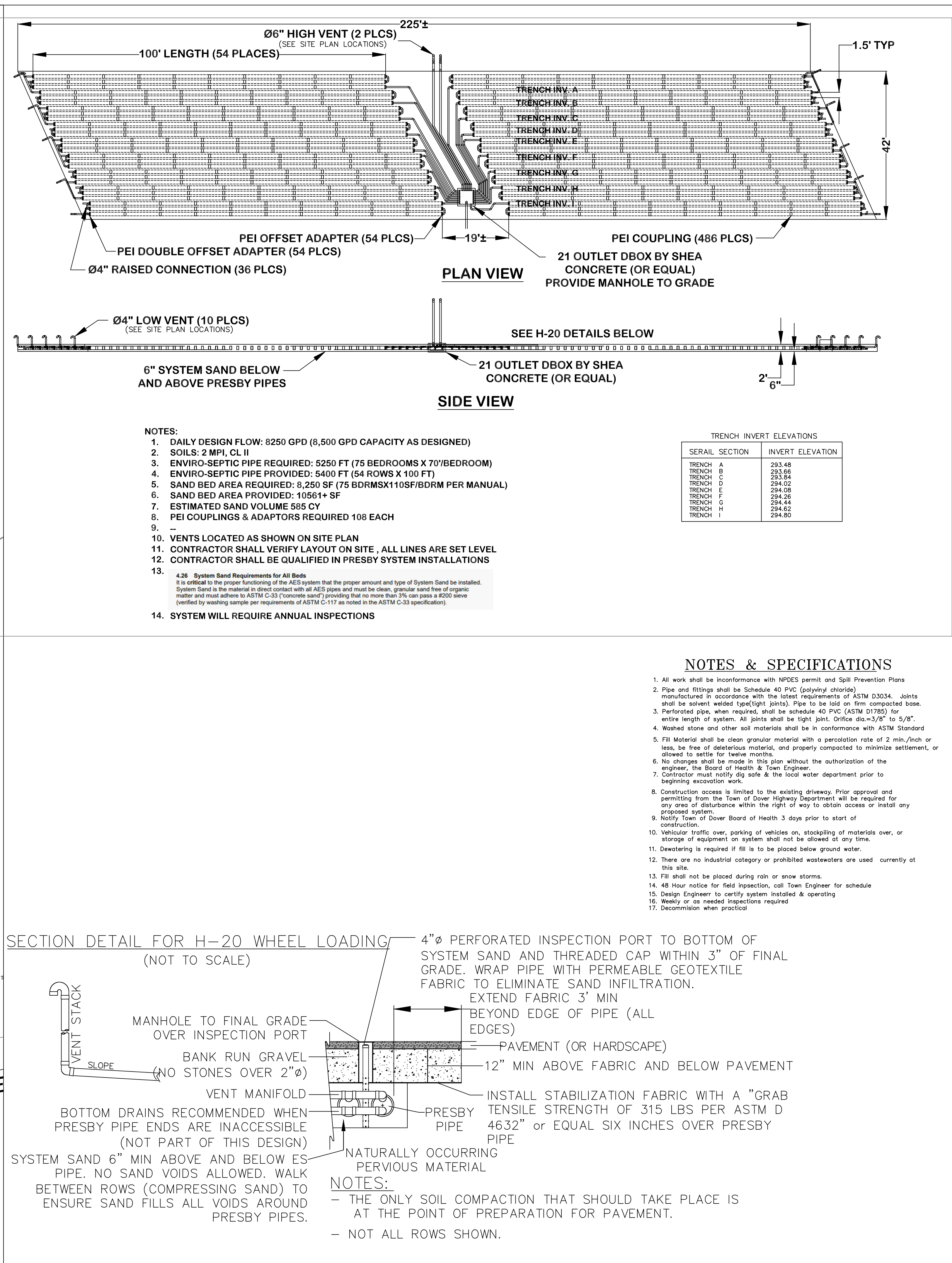
12/13/20

REVISIONS

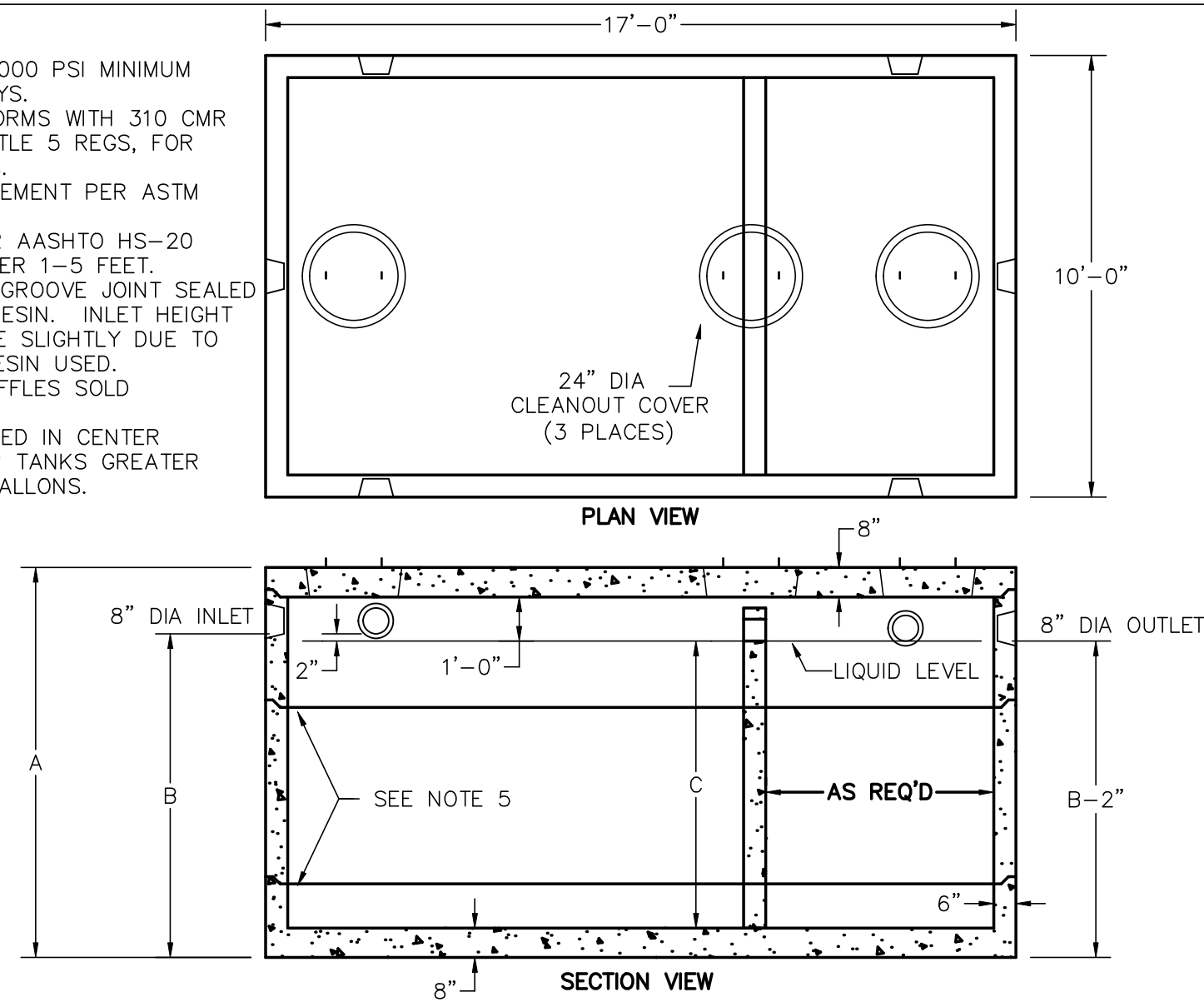
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COMMENTS

12/13/20



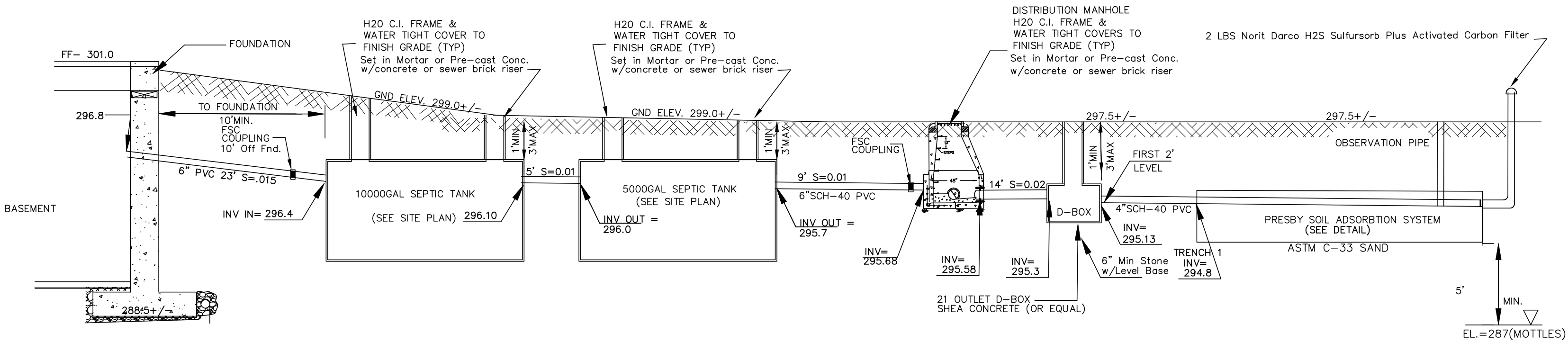
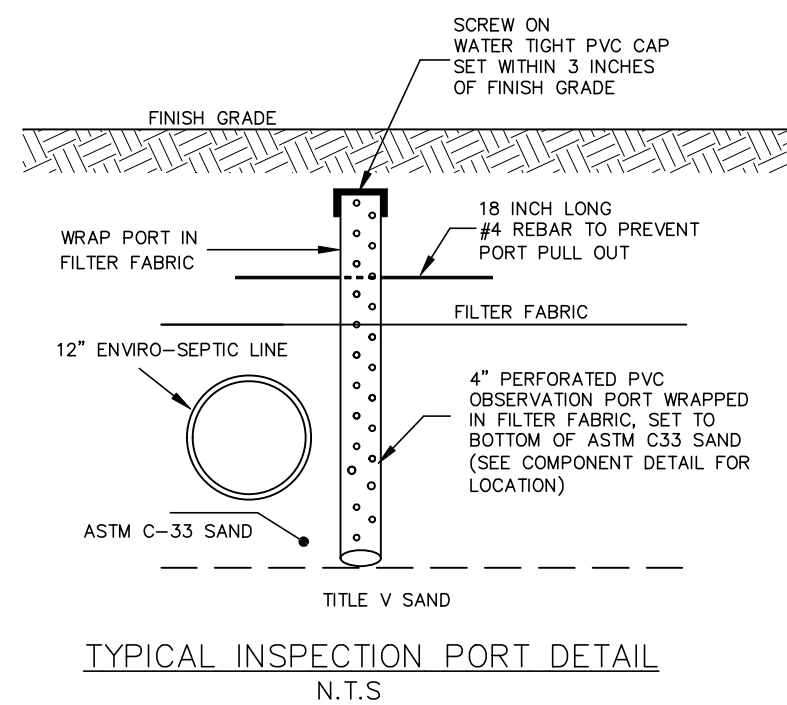
1. CONCRETE, 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REGS, FOR SEPTIC TANKS.
3. ALL REINFORCEMENT PER ASTM 1122
4. DESIGNED FOR ASHTO HS-20 LOADING, COVER 1-5 FEET.
5. TONGUE AND GROOVE JOINT SEALED WITH BUTYL RESIN. INLET HEIGHT MAY INCREASE SLIGHTLY DUE TO THE BUTYL RESIN USED.
6. TEES AND BAFFLES SOLD SEPARATELY.
7. SPANNERS USED IN CENTER SECTIONS FOR TANKS GREATER THAN 7000 GALLONS.



GALLONS	A (HEIGHT)	B (INLET)	C (LIQUID)	TOTAL WEIGHT	RISER SIZE 1	RISER SIZE 2	RISER SIZE 3
4,000	76"	58"	48"	55,366	48"	0	0
5,000	88"	70"	60"	59,812	30"	30"	0
5,500	92"	74"	64"	61,296	30"	34"	0
6,000	96"	78"	68"	62,780	34"	34"	0
6,500	100"	82"	72"	64,258	30"	42"	0
7,000	106"	88"	78"	66,482	30"	48"	0
7,500	112"	94"	84"	68,704	42"	42"	0
8,000	118"	100"	90"	70,928	42"	48"	0
8,500	124"	106"	96"	73,152	48"	48"	0
9,000	130"	112"	102"	75,374	30"	30"	42"
9,500	136"	118"	108"	77,598	30"	30"	48"
10,000	140"	122"	112"	79,082	30"	34"	48"
10,500	146"	128"	118"	81,304	34"	42"	42"
11,000	152"	134"	124"	83,528	34"	42"	48"
11,500	158"	140"	130"	85,752	34"	48"	48"
12,000	162"	144"	134"	87,232	38"	48"	48"

ITEM	SIZE	WEIGHT
8"	TOP	16,312#
21"	BOTTOM	20,517#
30"	RISER	11,116#
34"	RISER	12,600#
38"	RISER	14,080#
42"	RISER	15,562#
48"	RISER	17,786#

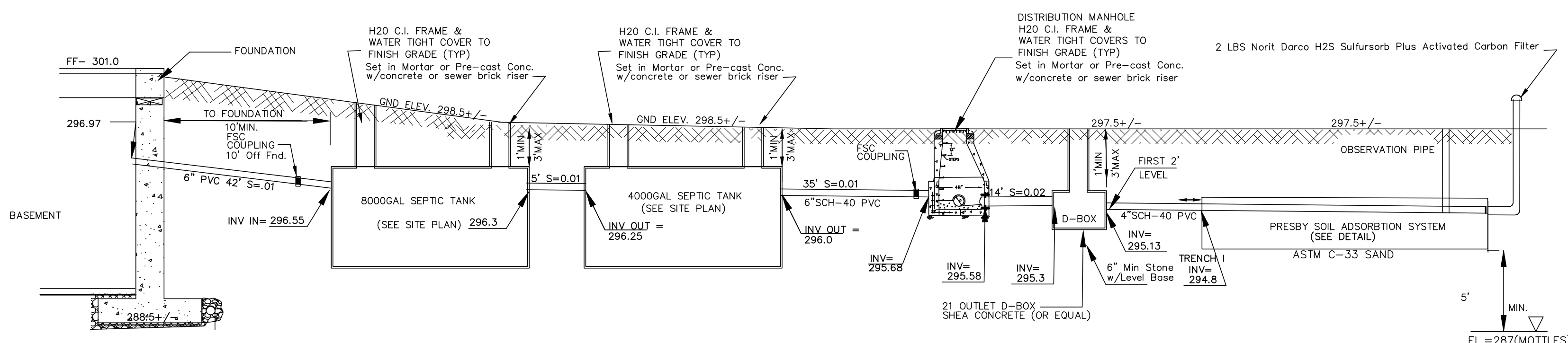
ALL RISERS HAVE SPANS



SEPTIC SYSTEM COMPONENT PROFILE (EAST)

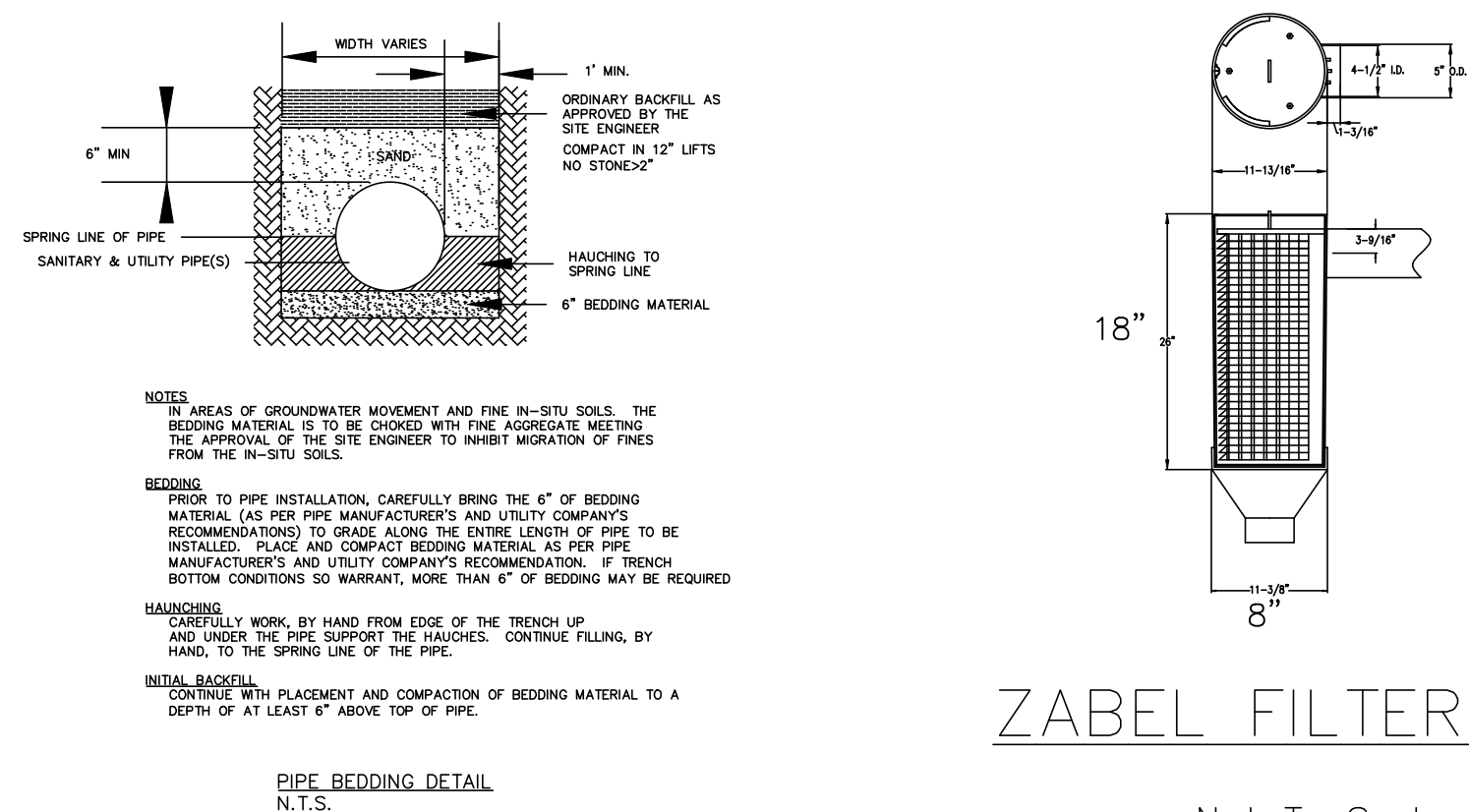
N.T.S
38 BEDROOMS

4.26 System Sand Requirements for All Beds
It is **critical** to the proper functioning of the AES system that the proper amount and type of System Sand be installed. System Sand is the material in direct contact with all AES pipes and must be clean, granular sand free of organic matter and must adhere to ASTM C-33 ("concrete sand") providing that no more than 3% can pass a #200 sieve (verified by washing sample per requirements of ASTM C-117 as noted in the ASTM C-33 specification).



SEPTIC SYSTEM COMPONENT PROFILE (WEST)

N.T.S
37 BEDROOMS

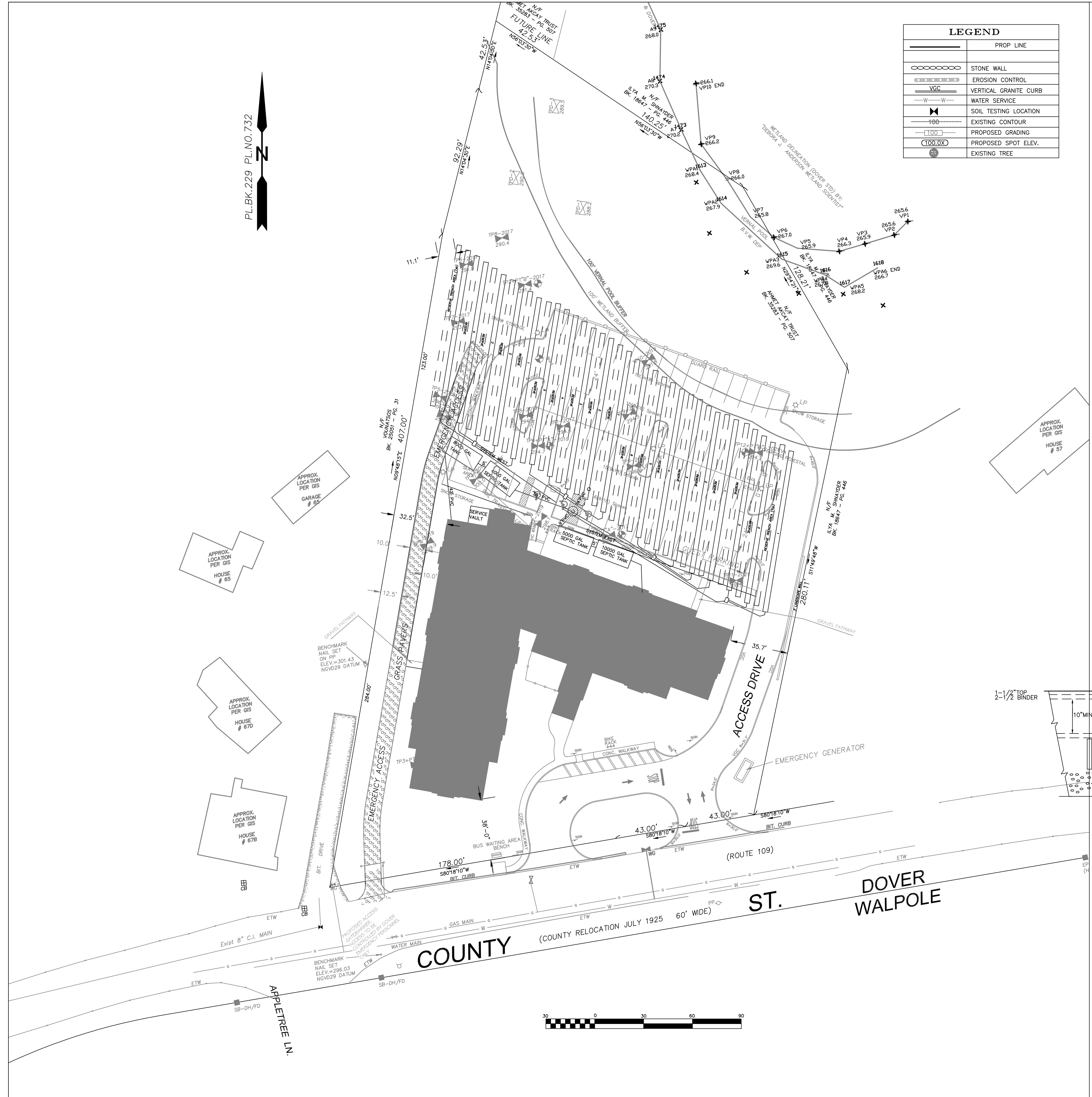


ZABEL FILTER - A-100

Not To Scale

SOIL EVALUATORS CERTIFICATIONS ON FILE W/BOH

- ① REMOVE TO UNTIL C2 LAYER IS EXPOSED OR ALL UNSUITABLE MATERIAL IS REMOVED AND REPLACE WITH TITLE V SAND (ASTM C-33 EQUIV.) 5- FEET ALL AROUND TRENCHES



LEGEND	
	PROP. LINE
	STONE WALL
	EROSION CONTROL
	VERTICAL GRANITE CURB
	WATER SERVICE
	SOIL TESTING LOCATION
	EXISTING CONTOUR
	PROPOSED GRADING
	PROPOSED SPOT ELEV.
	EXISTING TREE

GENERAL NOTES & SPECIFICATIONS

- All work shall be in accordance with NPDES permit and Spill Prevention Plans
- Pipe and fittings shall be Schedule 40 PVC (polyvinyl chloride) manufactured in accordance with the latest requirements of ASTM D3034. Joints shall be solvent welded type (tight joints). Pipe to be laid on firm compacted base.
- Perforated pipe, when required, shall be schedule 40 PVC (ASTM D1785) for entire length of system. All joints shall be tight joint. Orifice dia.=3/8" to 5/8".
- Washed stone and other soil materials shall be in accordance with ASTM Standard
- Fill Material shall be clean granular material with a percolation rate of 2 min./inch or less, be free of deleterious material, and properly compacted to minimize settlement, or allowed to settle for twelve months.
- No changes shall be made in this plan without the authorization of the engineer, the Board of Health & Town Engineer.
- Contractor must notify dig safe & the local water department prior to beginning excavation work.
- Construction access is limited to the existing driveway. Prior approval and permitting from the Town of Dover Highway Department will be required for any area of disturbance within the right of way to obtain access or install any proposed system.
- Notify Town of Dover Board of Health 3 days prior to start of construction.
- Vehicular traffic over, parking of vehicles on, stockpiling of materials over, or storage of equipment on system shall not be allowed at any time.
- Dewatering is required if fill is to be placed below ground water.
- There are no industrial category or prohibited wastewaters are used currently at this site.
- Fill shall not be placed during rain or snow storms.
- 48 Hour notice for field inspection, call Town Engineer for schedule
- Design Engineer to certify system installed & operating
- Weekly or as needed inspections required

DIG SAFE NOTE:

UTILITIES ARE PLOTTED FROM FIELD LOCATION AND ANY RECORD INFORMATION AVAILABLE, AND SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT AVAILABLE. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING. ALSO, CALL "DIG-SAFE" AT 1(888)344-7233 1(888)DIG-SAFE.



THE OFFSETS AS SHOWN ON THIS PLAN ARE NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES OR FOR THE ESTABLISHMENT OF ANY PROPOSED CONSTRUCTION UNLESS SAID CONSTRUCTION IS SHOWN HEREON.

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

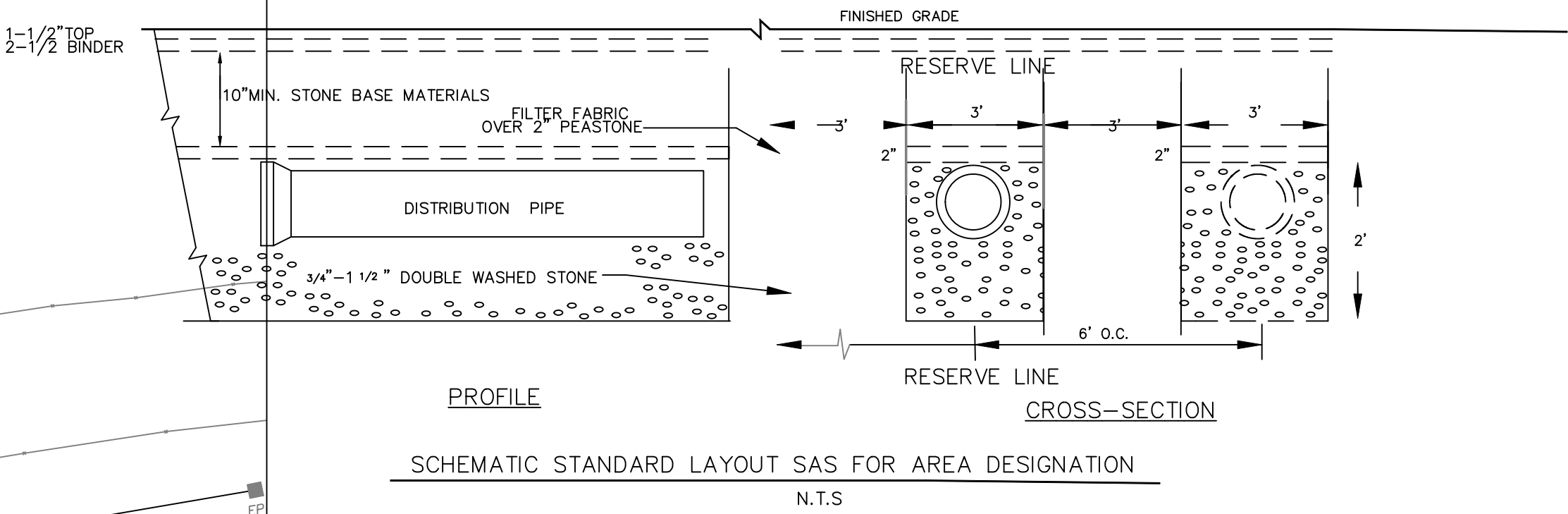
STANDARD LEACHING FACILITY DESIGN CRITERIA

TYPE OF BUILDINGS	MULTI FAMILY DWELLING
# OF BEDROOMS	75
	8250 GPD

PERC. DESIGN RATE ≤ 2 MIN./INCH
MIN. DAILY FLOW
PRESSURE SYSTEM
EFFLUENT LOADING RATE (GPD/SF) = 0.63
SOIL CLASS II

REQUIRED AREA = 8250 GPD / 0.63GPD/SF=13095sf

CALCULATION:
Stone Trench Req'd = 13095 SF / 7 SF/LF = 1870LF
Stone Trenches = 19x100LF / 7 SF/LF = 113300SF Provided



DATE: 12/13/20
REVISIONS: 09/21/21
REVISIONS: 10/08/21
REVISIONS: 12/02/21

DESIGNER/ENGINEER: R. J. ...
CHECKED: AS NOTED
DATE: 12-18-20

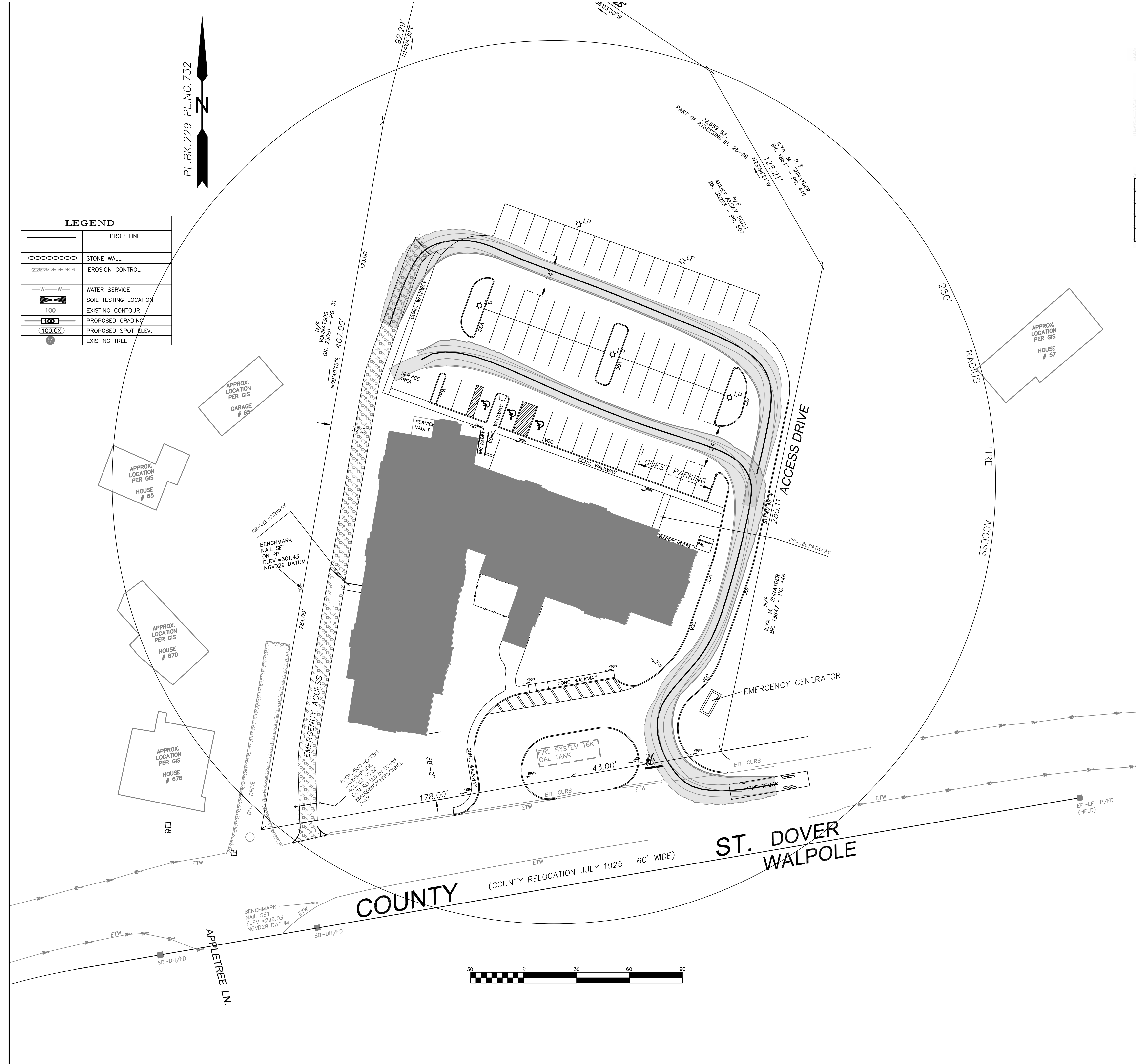
Design & Drafting services performed by:
Signature Designs
ARCHITECTURE
73 Bishop Road, Sharon, MA 02067 781 806-0063

Sheet No.
C8

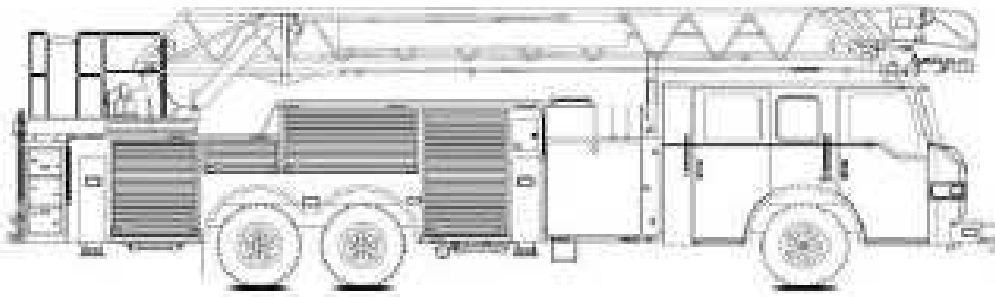
LEGEND	
	PROP LINE
	STONE WALL
	EROSION CONTROL
	WATER SERVICE
	SOIL TESTING LOCATION
	EXISTING CONTOUR
	PROPOSED GRADING
	PROPOSED SPOT ELEV.
	EXISTING TREE

PL.BK.229 PL.NO.732

N



AERIAL LADDER – TANDEM REAR AXLE



	Minimum	Maximum
Front GAWR (lbs)	20000	22800
Rear GAWR (lbs)	34000	54000
Width (in.)	98	100
Height (in.)	10.5	12.5
Length (ft.)	39	43

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ARCHITECTURE**
73 Bishop Road, Sharon, MA 02067 781 806-0063

Sheet No.
C9

Drawings Description
**RED ROBIN PASTURES
DOVER MASS
FIRE ACCESS**

Due and Interpretation of this Drawing (C9) the CONTRACTOR represents that he has visited the site, furnished himself with the local conditions, verified field dimensions and correlated his observations with the requirements of the C.D.'s. His examiner shall not accept sealed titleblock project address.

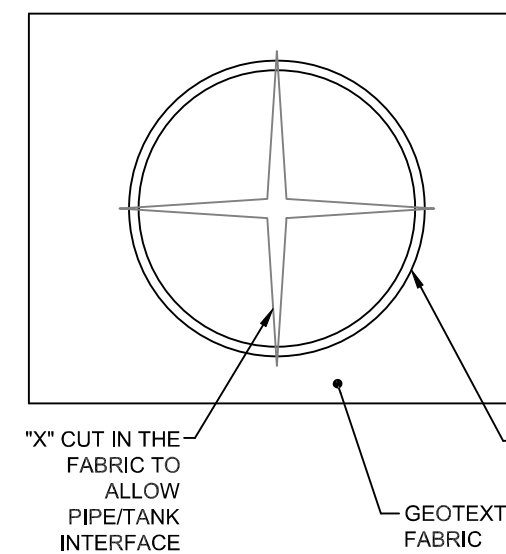
2. As instruments of service, all Drawings, Specifications and copies thereof furnished by Signature Design-Architecture (SD-A) are the property of SD-A. They are to be used only for this Project and are not to be used on any other Project. Changes to the C.D.'s may only be made by SD-A. © 2020

Signature Design-Architecture (SD-A) is not responsible for any errors or omissions in this drawing or any other project. The user of this drawing is responsible for its use in accordance with the applicable laws and regulations. The user of this drawing is responsible for its use in accordance with the applicable laws and regulations. The user of this drawing is responsible for its use in accordance with the applicable laws and regulations.

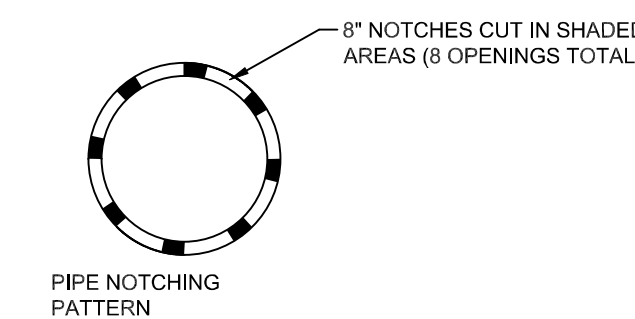
Rev.	#	Comment	Date
1	1	09/21/21	09/21/21
2	2	10/26/21	10/26/21
3	3	12/02/21	12/02/21

Designer/Checker	Rev.
KL	1
AS	2
AS	3

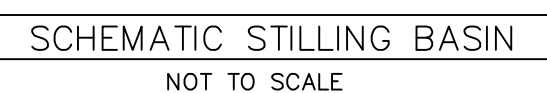
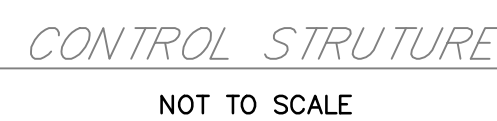
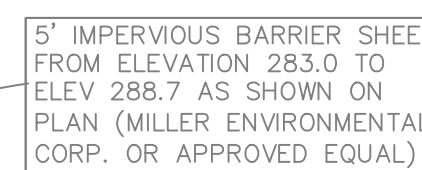
12-18-20



- THIS PORT IS USED TO PUMP WATER INTO THE SYSTEM AND RE-SUSPEND ACCUMULATED SEDIMENT SO THAT IT MAY BE PUMPED OUT.
- MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION DURING THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER. FLUSH AS NEEDED.
- ONLY R-TANK^{HD} AND R-TANK^{SD} MAY BE USED IN TRAFFIC APPLICATIONS.

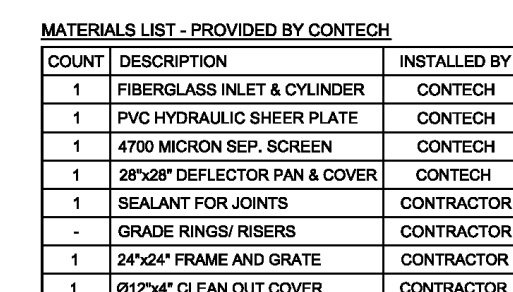


FOR ADDITIONAL INFORMATION PLEASE CONTACT: ACF ENVIRONMENTAL, 1-800-448-3636, www.acfenvironmental.com



GENERAL NOTES:

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS AND DETAILED STRUCTURE DIMENSIONS AND HEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LEAD REPRESENTATIVE. www.ContechES.com
3. COLD WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. CONTRACTOR TO CONFIRM ALL MEASURED MEANS AND METHODS.
5. STRUCTURE SHALL MEET ASHOTO H250 LOAD RATING ASSUMING AVERAGE COVER OF 0" - 2" AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. RECORD OF ACCUM TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET OR EXCEED THE DESIGN ASHOTO H250 LOAD RATING.
6. IF REQUIRED, PUMP HYDRAULIC SCHEMATIC PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CURTAIN. REMOVE AND REPLACE AS NECESSARY TO MAINTAIN FLOW.
7. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND ASHOTO LOAD FACTOR DESIGN METHOD.



- GENERAL NOTES**
1. CONTENT TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS MARKED WITH (1) LINE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 3. FOR FABRICATION DRAWINGS WITH DETAILS STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE REFER TO THE SPECIFICATIONS AND THE PROJECT WEBSITE: www.construction.com/resources/special/
 4. CDS WATER QUALITY STRUCTURES SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION PROVIDED IN THE DRAWINGS.
 5. STRUCTURE AND CASTINGS SHALL MEET ASHTO HDS LOAD RATING.
 6. ANCHORAGE SHALL BE IN ACCORDANCE WITH THE DESIGN OF SCREEN CLOSURES AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- INSTALLATION NOTES**
1. CONTRACTOR SHALL VERIFY DEPTH, DOWEL AND ANTI-LIFT/LOOSE PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND WEIGHTS OF EACH COMPONENT ARE IN ACCORDANCE WITH THE CDS MANHOLE STRUCTURE (LIFTS/CLUTCHES) PROVIDED.
 3. CONTRACTOR TO DO JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUP PIPES. MATCH PIPE INVERTS WITH ELEVATIONS.
 5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIL WATER TIGHT, HOLDING WATER INVERT TO INVERT.

Designer/Drafter	RT
Scale	AS_NOTED
Date	12-18-20

Use and Interpretation of this Privacy Policy

Drawing Description
**RED ROBIN PASTURES
DOVER MASS
DETAIL SHEET**

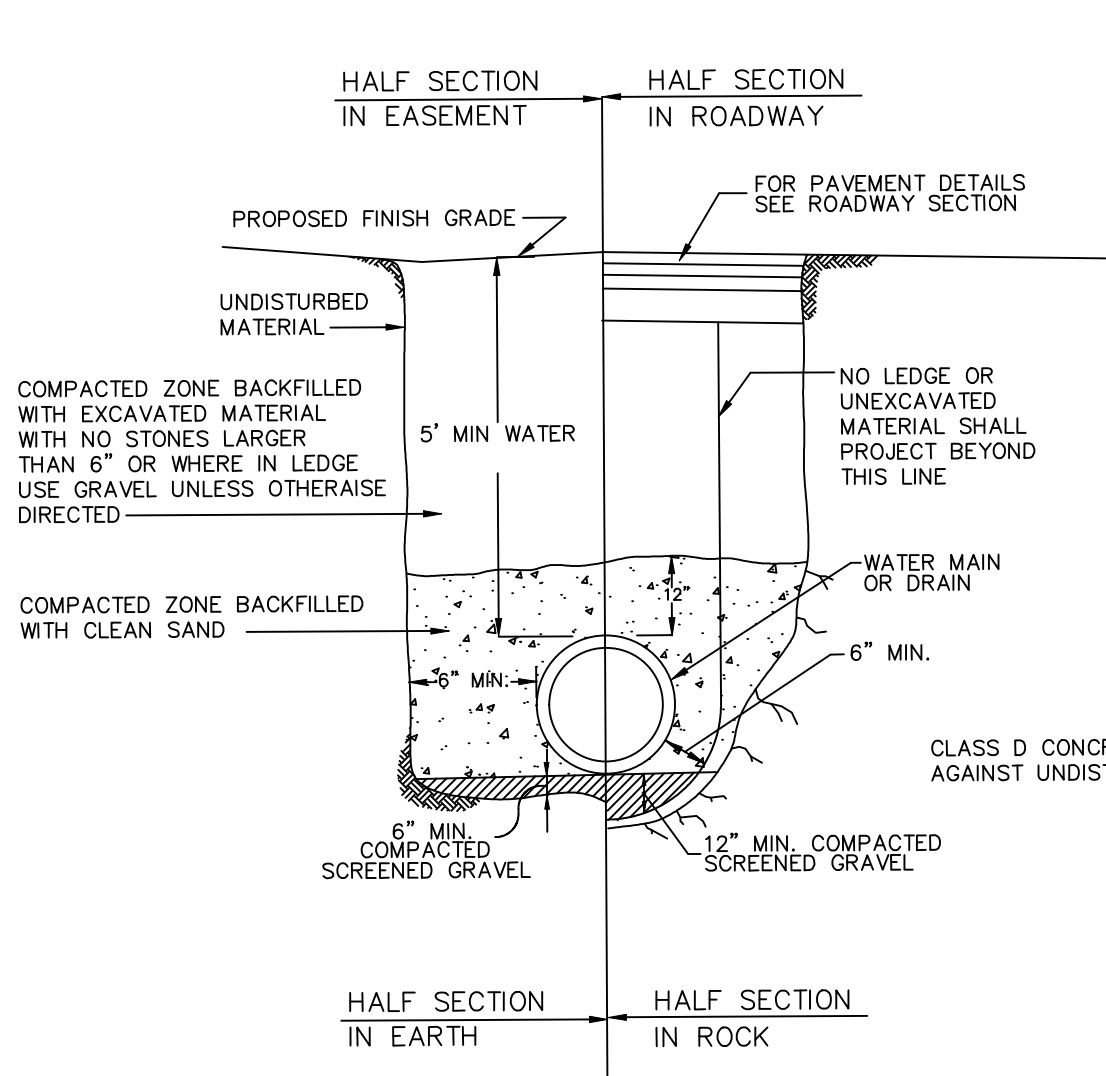
Design & Drafting services performed by:

Signature Designs
ARCHITECTURE

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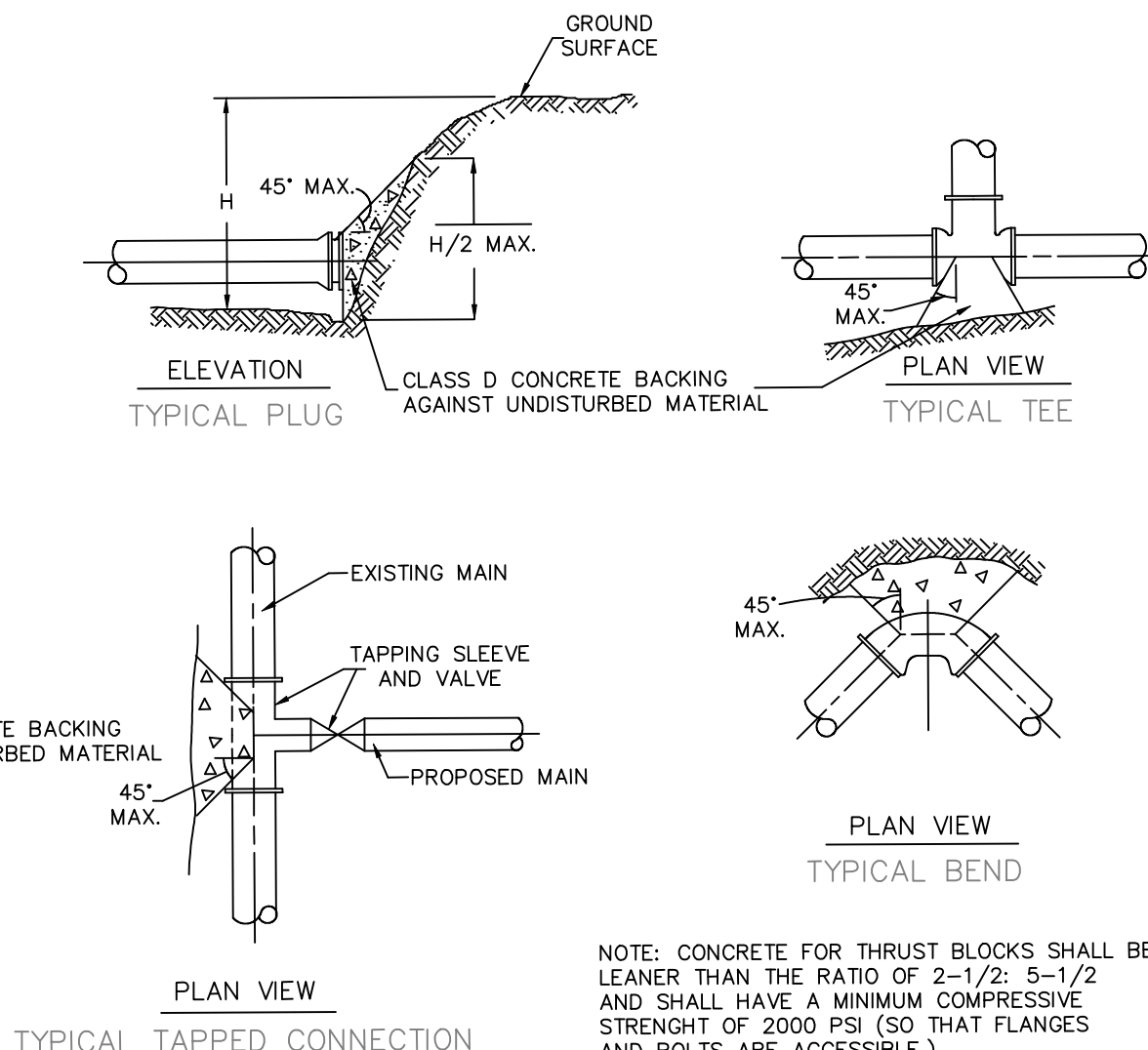


Sheet No.
C10



WATER MAIN TRENCH DETAILS

NOT TO SCALE

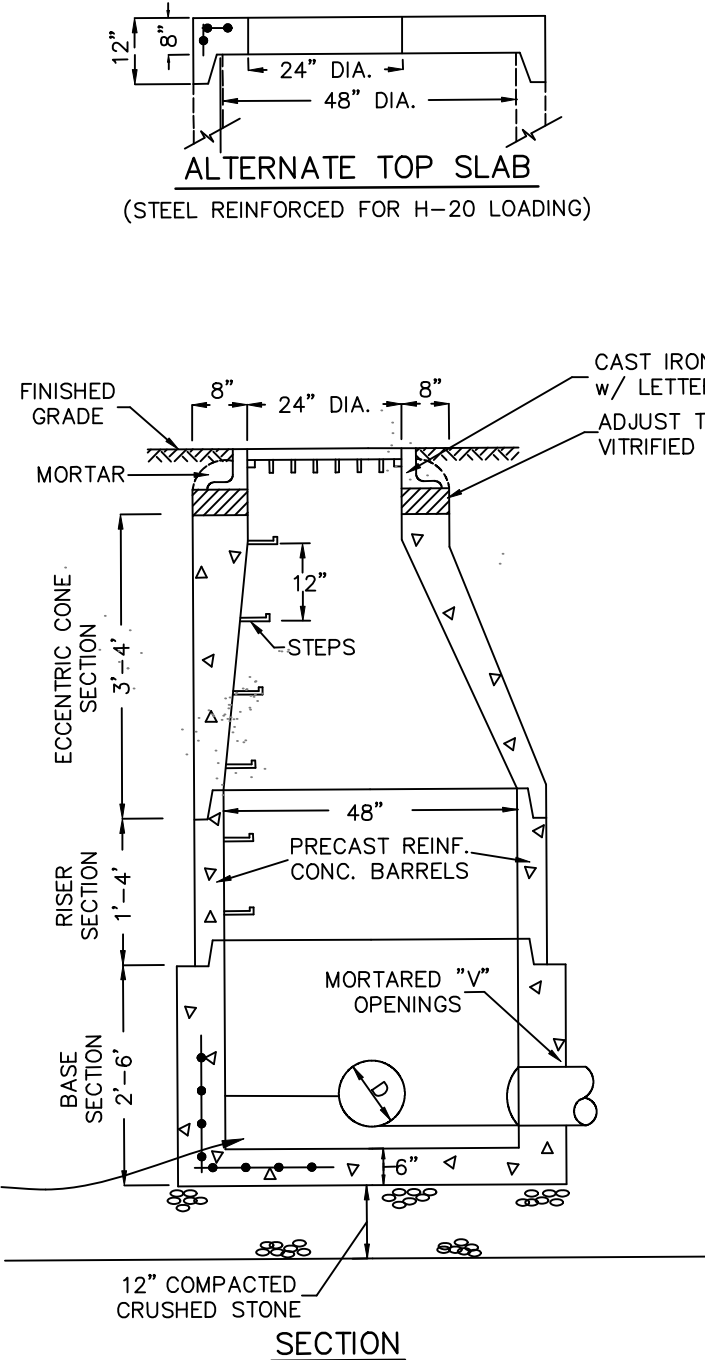


WATER MAIN THRUST BLOCK DETAILS

NOT TO SCALE

BEARING AREAS OF THRUST BLOCKS (BEARING AREA IN SQUARE FT.)					
PIPE SIZE INCHES	1/4 BEND	1/8 BEND	1/16 BEND	PLUG TEES	
6 AND 8	8	8	-	8	8
10 AND 12	22	13	8	16	

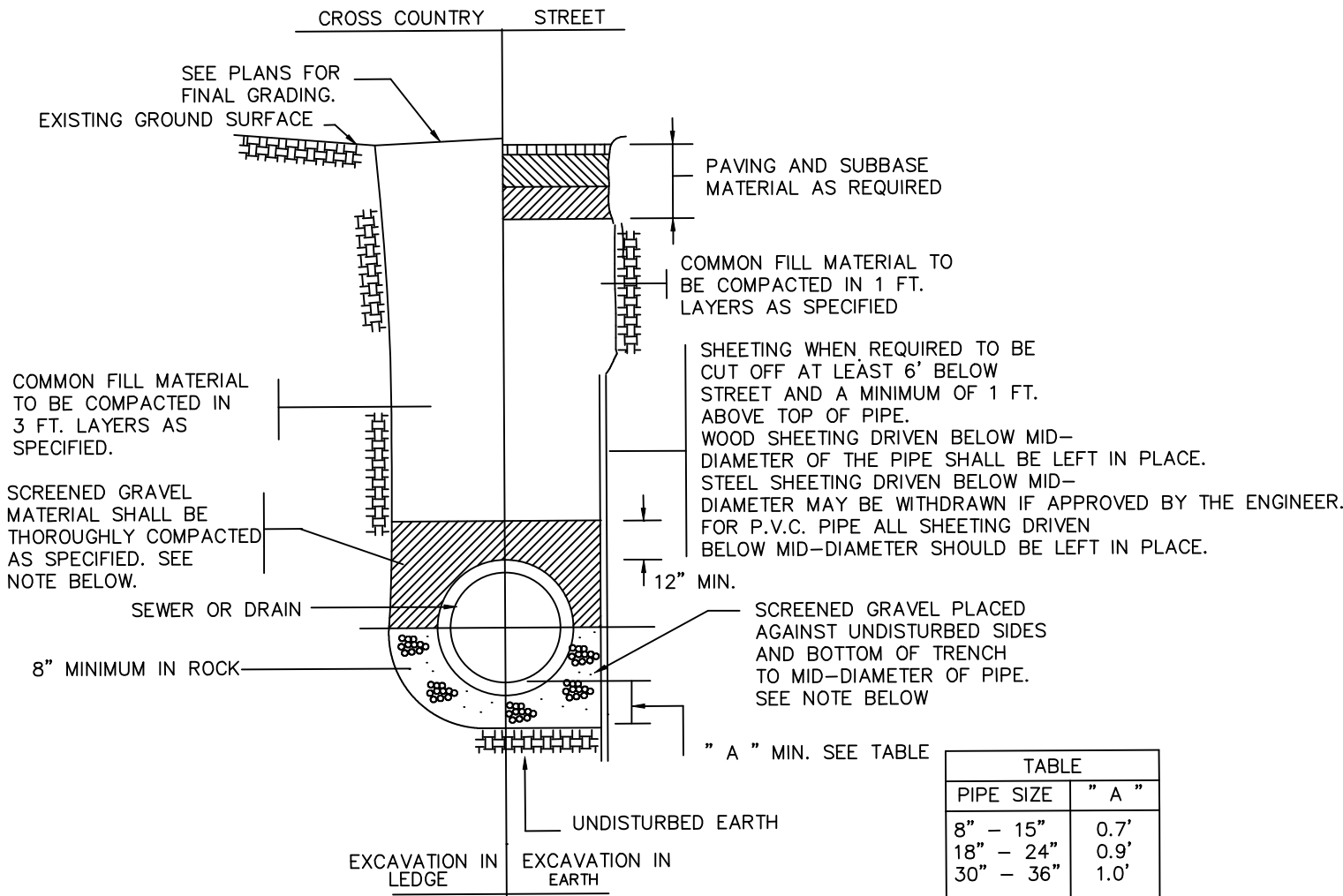
NOTE: CONCRETE FOR THRUST BLOCKS SHALL BE LEANER THAN THE RATIO OF 2-1/2: 5-1/2 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI (SO THAT FLANGES AND BOLTS ARE ACCESSIBLE.) BEARING AREAS OF THRUST BLOCKS (BEARING AREA IN SQUARE FEET)



48" DIAMETER PRECAST DRAIN MANHOLE (DMH)
FOR PIPE DIAMETERS UP TO 24"

NOT TO SCALE

- GENERAL NOTES:
1. REINFORCED STEEL CONFORMS TO LATEST A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN.(BOTH WAYS) BASE BOTTOM.
 2. CONCRETE COMPRESSIVE STRENGTH-4000 PSI MIN.
 3. MANHOLE DESIGN-SPECS. CONFORMS TO LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
 4. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC PER ASTM C-478, PARA. 11.
 5. "V" PIPE OPENINGS W/ 2" MAX. OUTSIDE PIPE CLEARANCE TO BE CAST AS REQUIRED.
 6. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TAPE SEAL THAT COMPLIES WITH C-443 OR C-361. SYNTHETIC RUBBER GASKET THAT COMPLIES W/ C-443 OR C-361.
 7. BASE SECTION SHALL BE ONE POUR MONOLITHIC.

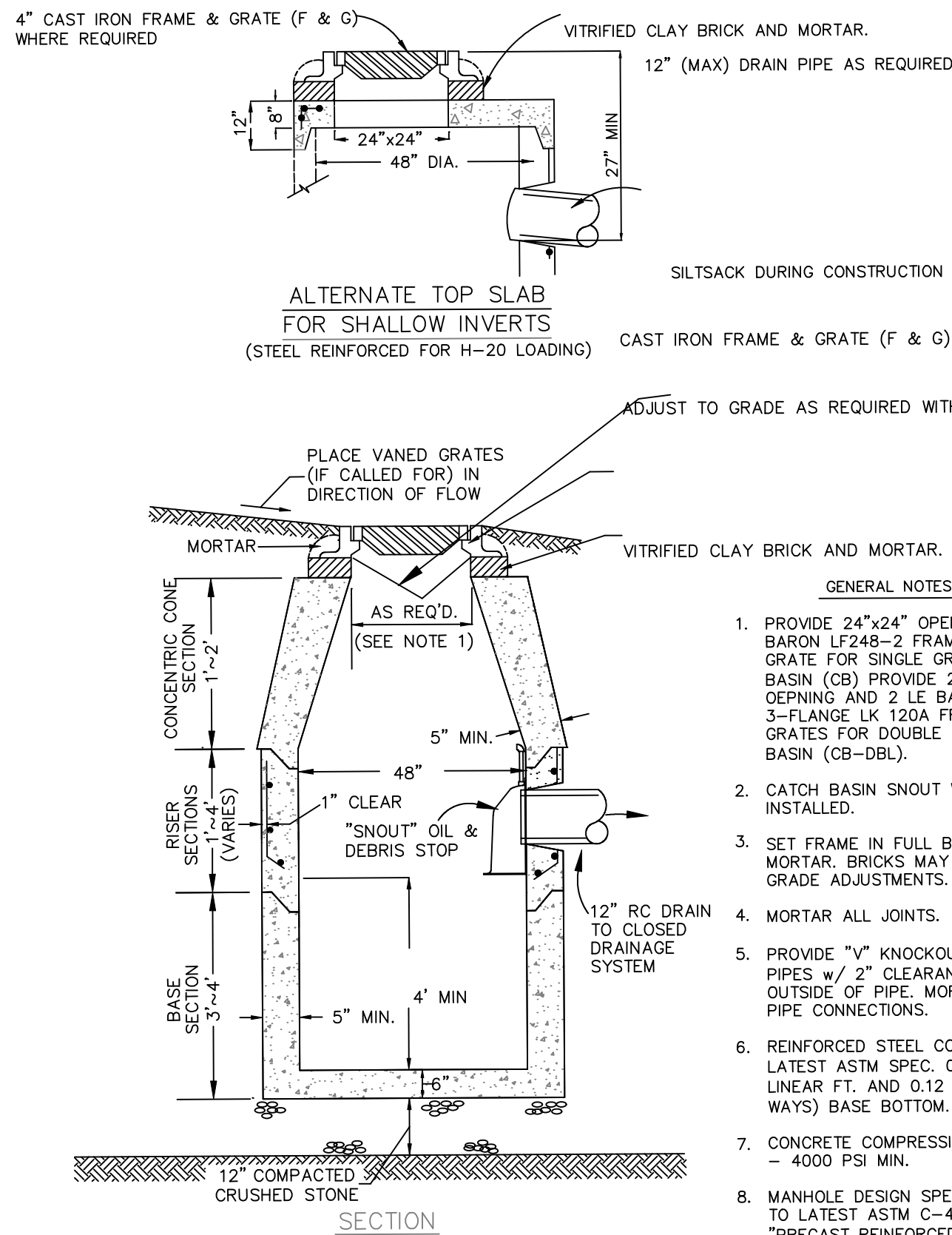


TYPICAL TRENCH DETAIL FOR SEWER & DRAIN

NOT TO SCALE

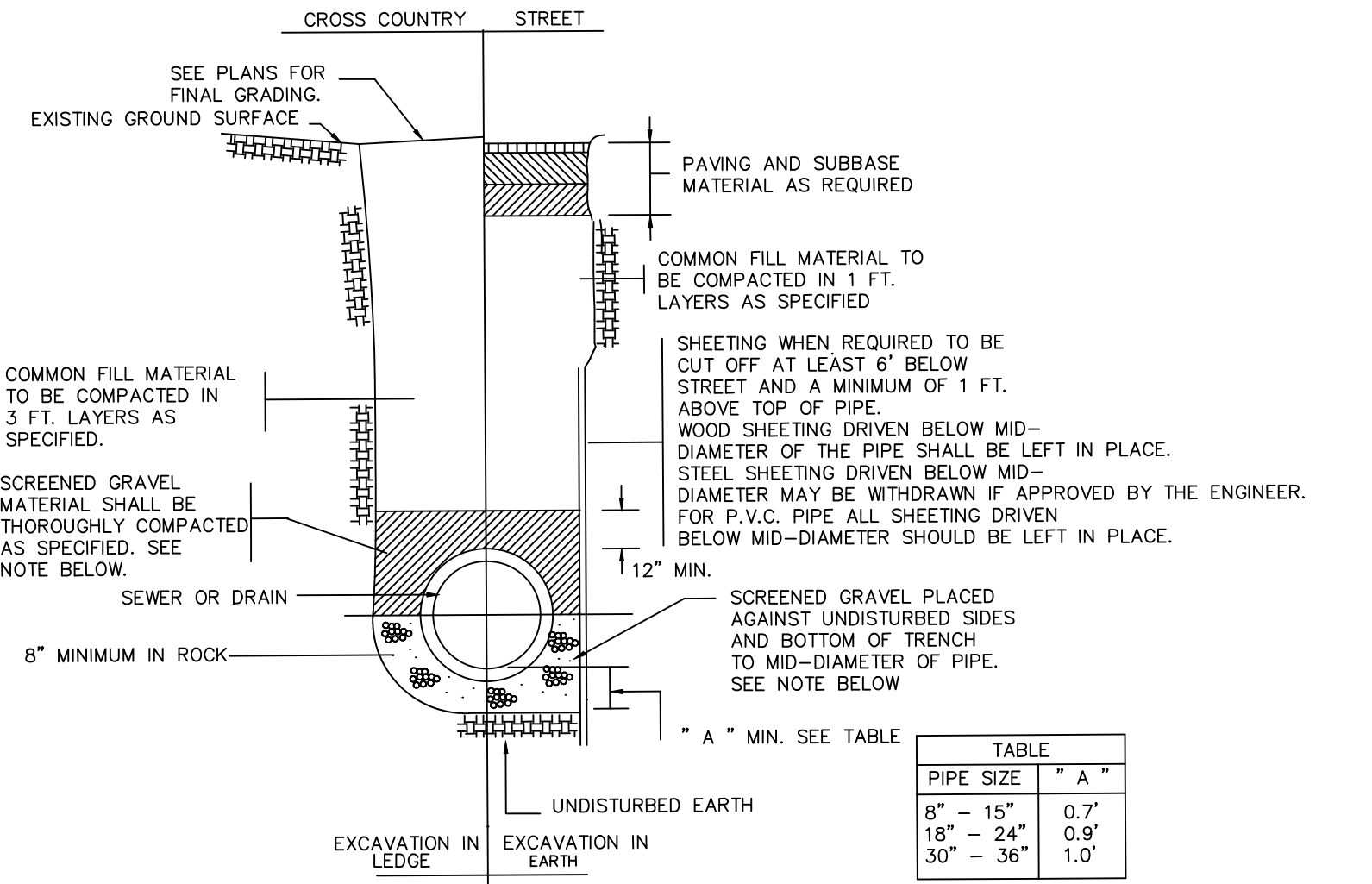
TABLE	
PIPE SIZE	" A "
8" - 15"	0.7'
18" - 24"	0.9'
30" - 36"	1.0'

- NOTES:
1. FOR P.V.C. PIPE SCREENED GRAVEL TO EXTEND TO 12" ABOVE TOP OF PIPE.
 2. PROVIDE AT LEAST ONE DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE WHERE DIRECTED OR EVERY 300 FT. WHICHEVER IS LESS.



CATCH BASIN (CB) & DOUBLE GRATE CATCH BASIN (CB-DBL)

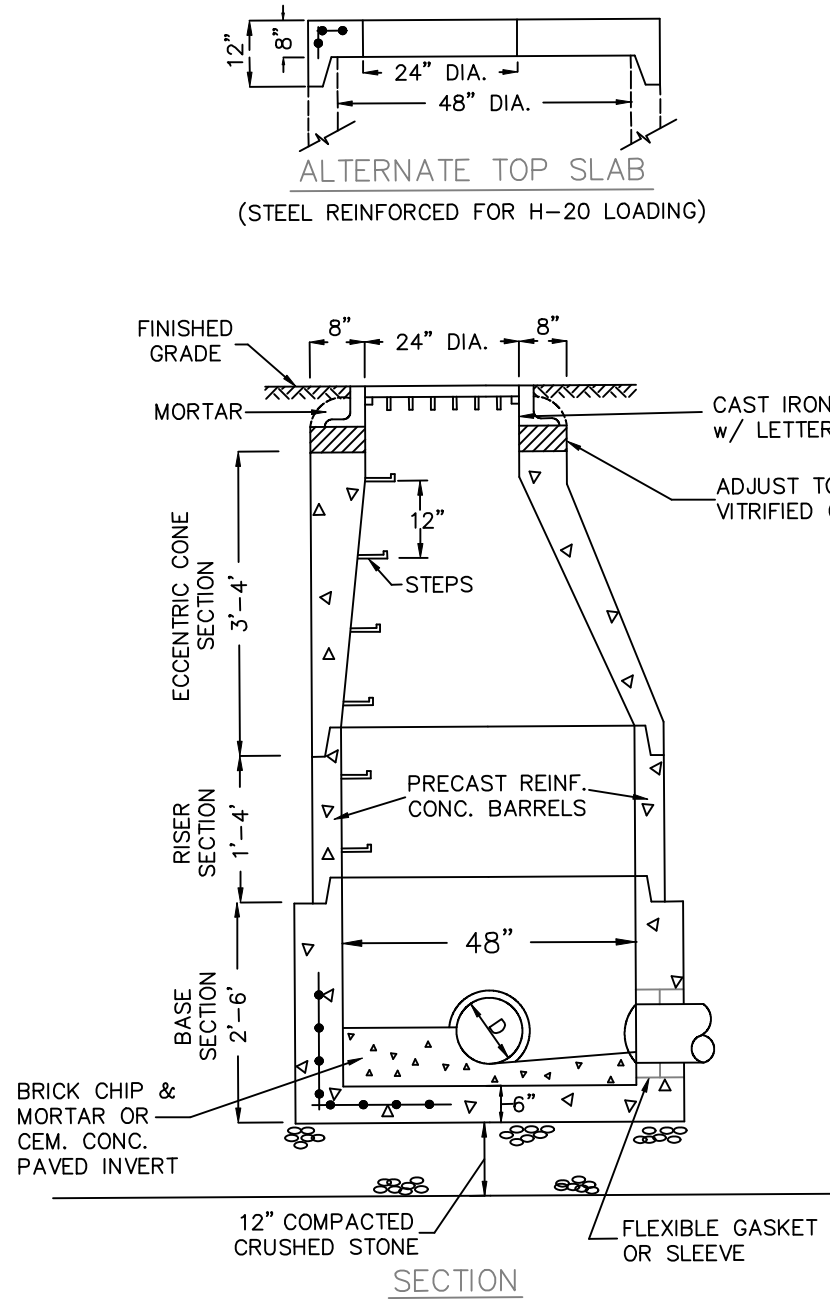
NOT TO SCALE



TYPICAL TRENCH DETAIL FOR SEWER & DRAIN

NOT TO SCALE

- NOTES:
1. FOR P.V.C. PIPE SCREENED GRAVEL TO EXTEND TO 12" ABOVE TOP OF PIPE.
 2. PROVIDE AT LEAST ONE DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE WHERE DIRECTED OR EVERY 300 FT. WHICHEVER IS LESS.

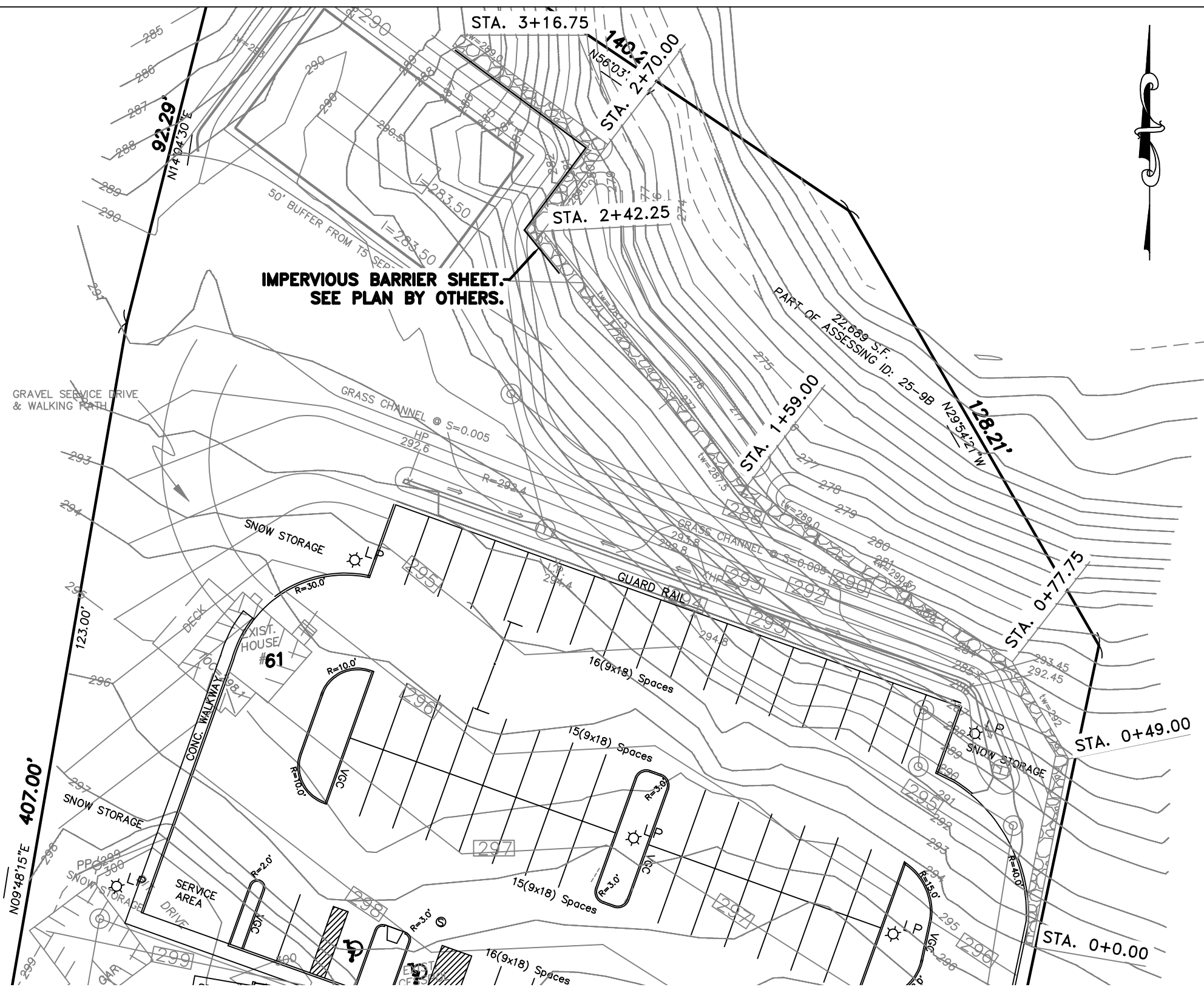


SANITARY SEWER MANHOLE (SMH)

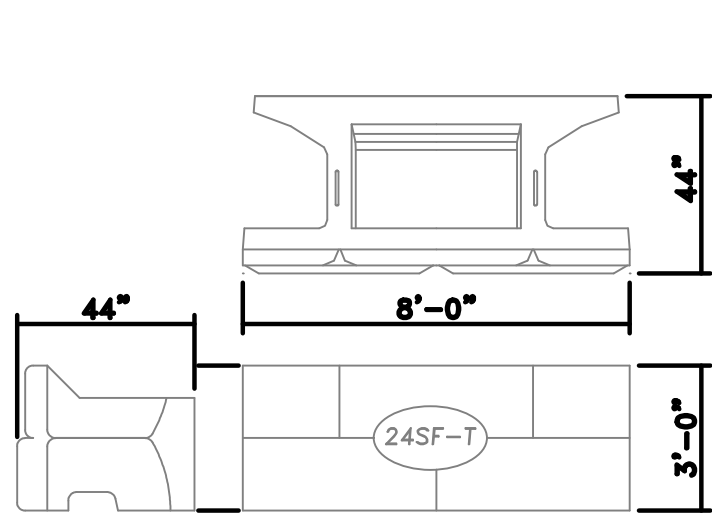
NOT TO SCALE

- GENERAL NOTES:
1. REINFORCED STEEL CONFORMS TO LATEST A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN.(BOTH WAYS) BASE BOTTOM.
 2. CONCRETE COMPRESSIVE STRENGTH-4000 PSI MIN.
 3. MANHOLE DESIGN SPECS. CONFORM TO LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
 4. ALL EXTERIOR SURFACES TO BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING.
 5. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC PER ASTM C-478, PARA. 11.
 6. SECTION JOINTS SHALL BE BUTYL RUBBER PER ASTM C443 AND FEDERAL SPEC. SS-S210A.
 7. BASE SECTION SHALL BE ONE POUR MONOLITHIC.

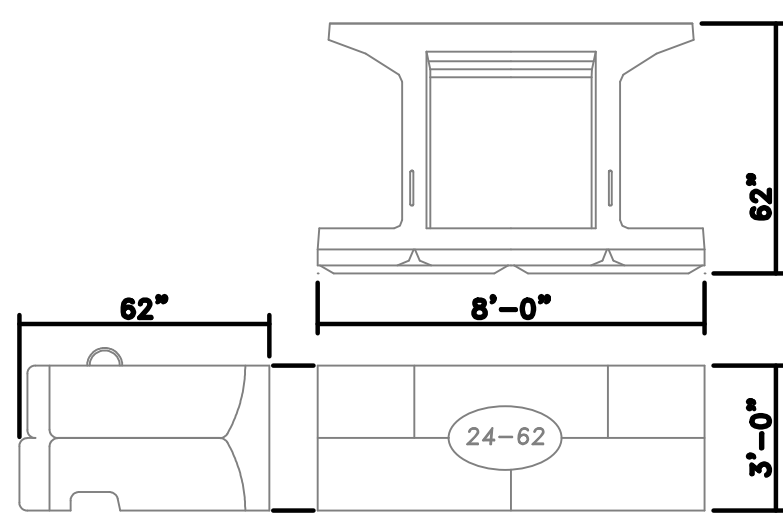
REVISIONS	
NO.	DESCRIPTION
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20	10/22/21



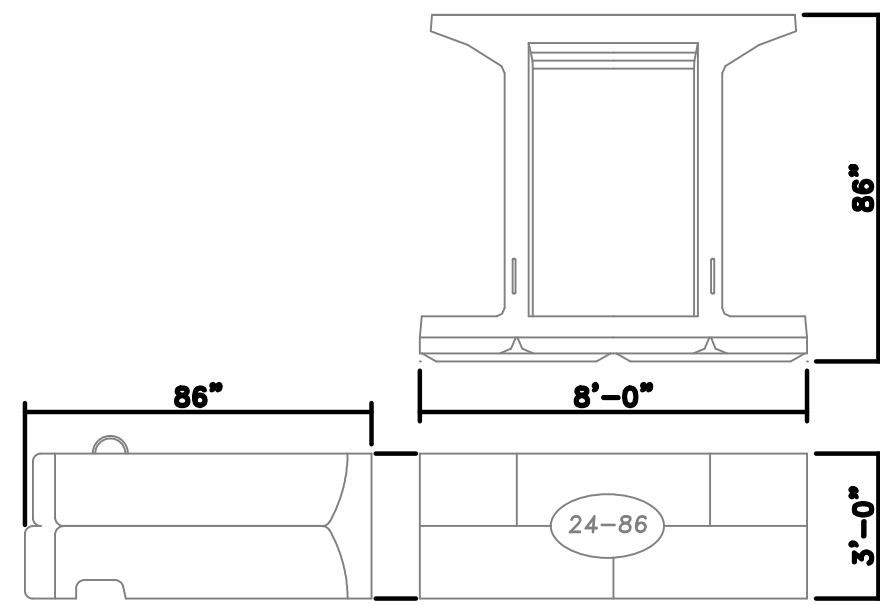
PLAN VIEW
1" = 30'-0"



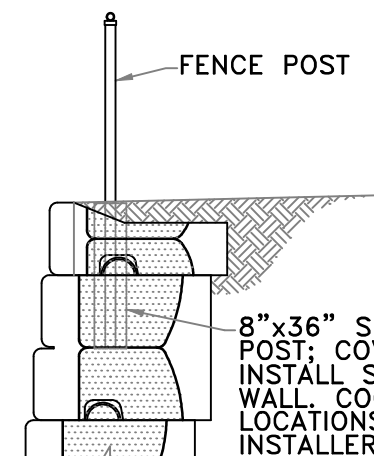
24SF TOP BLOCK
1/4" = 1'-0"



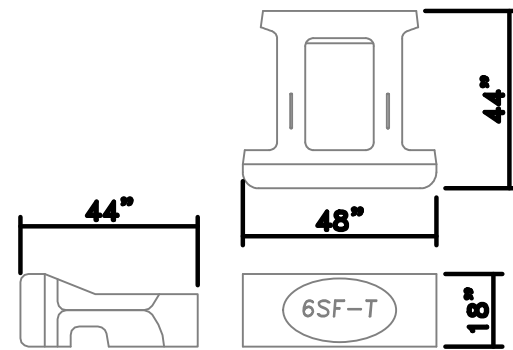
24-62 BLOCK
1/4" = 1'-0"



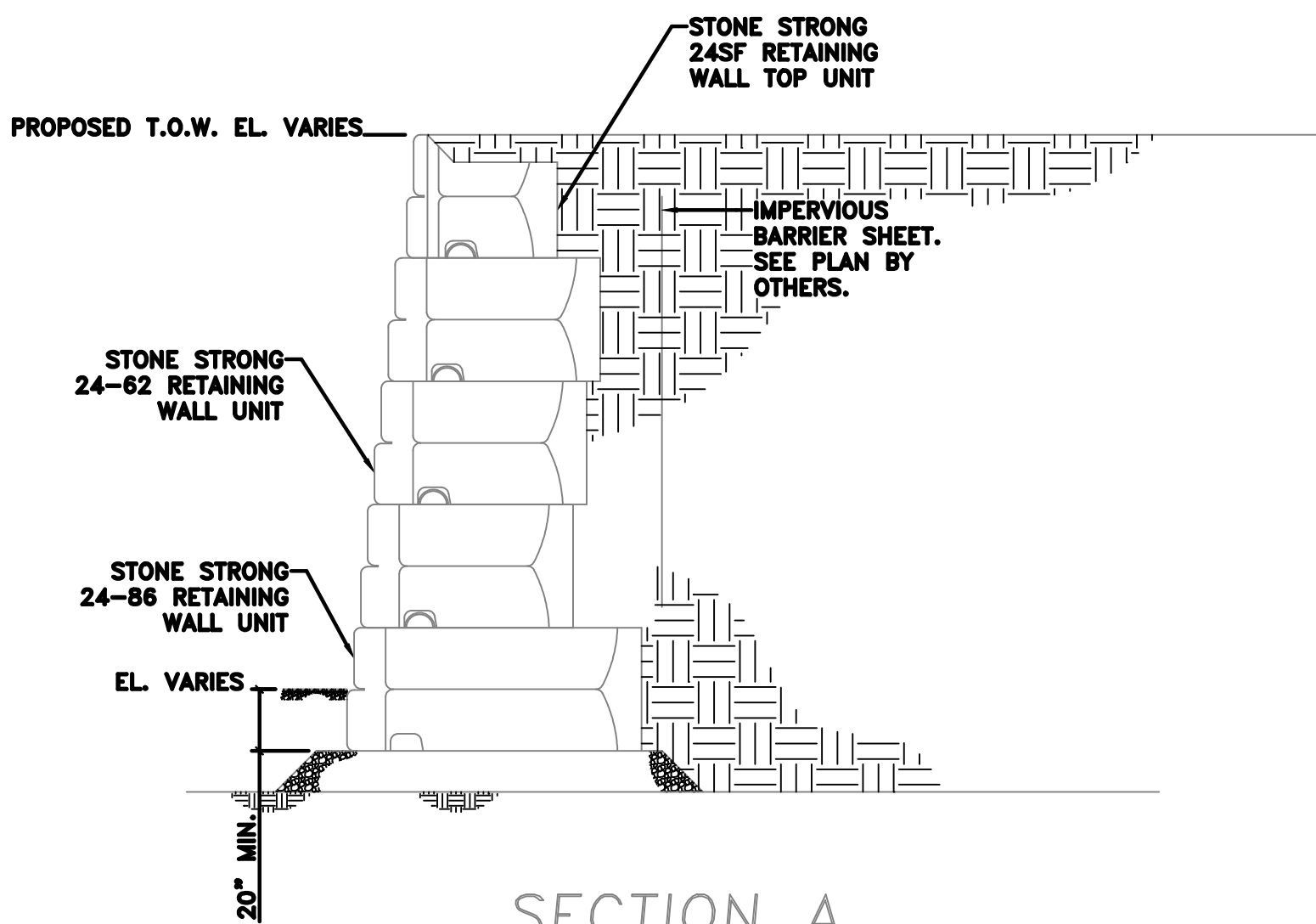
24-86 BLOCK
1/4" = 1'-0"



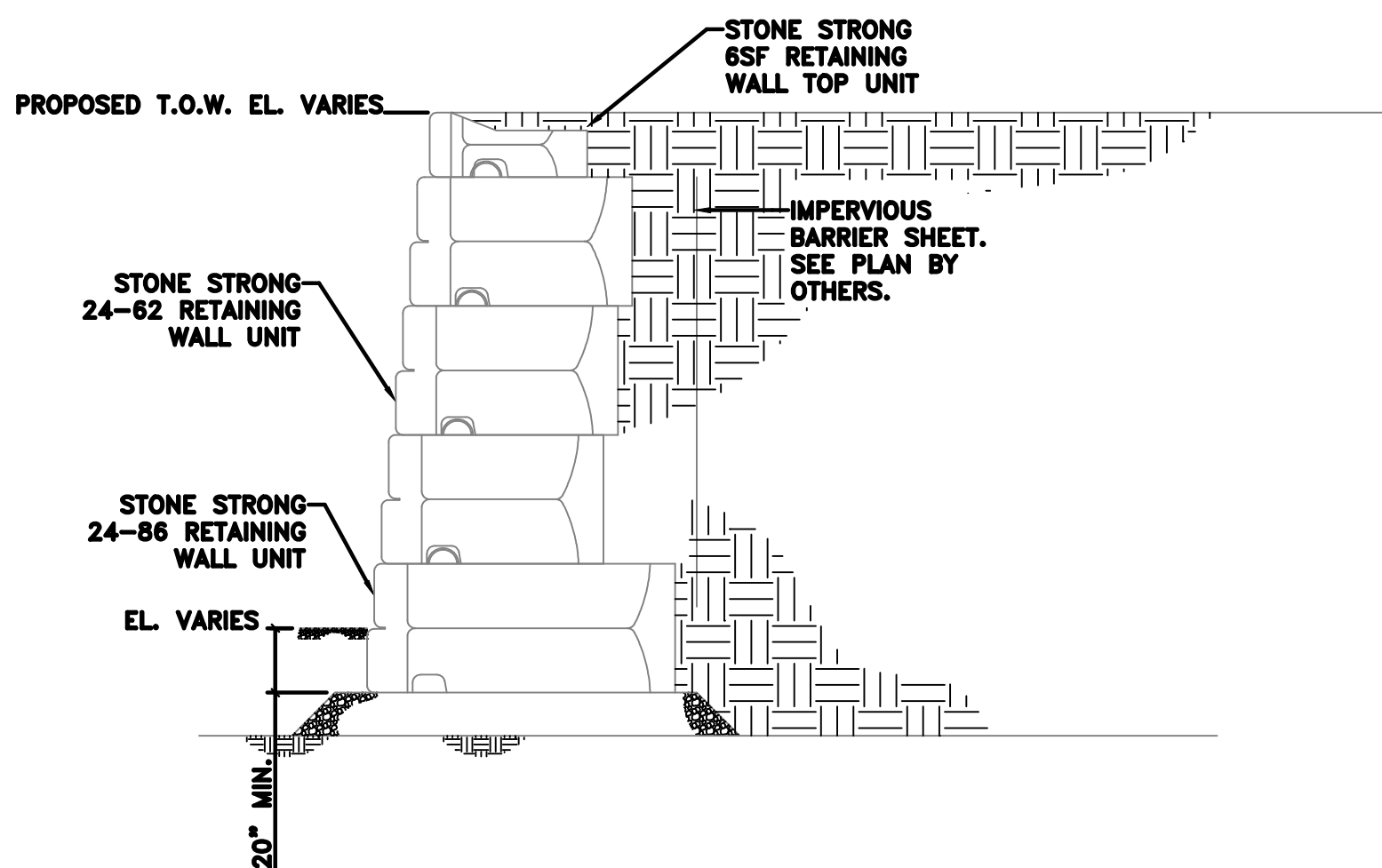
FENCE SLEEVE TYPICAL
1/4" = 1'-0"



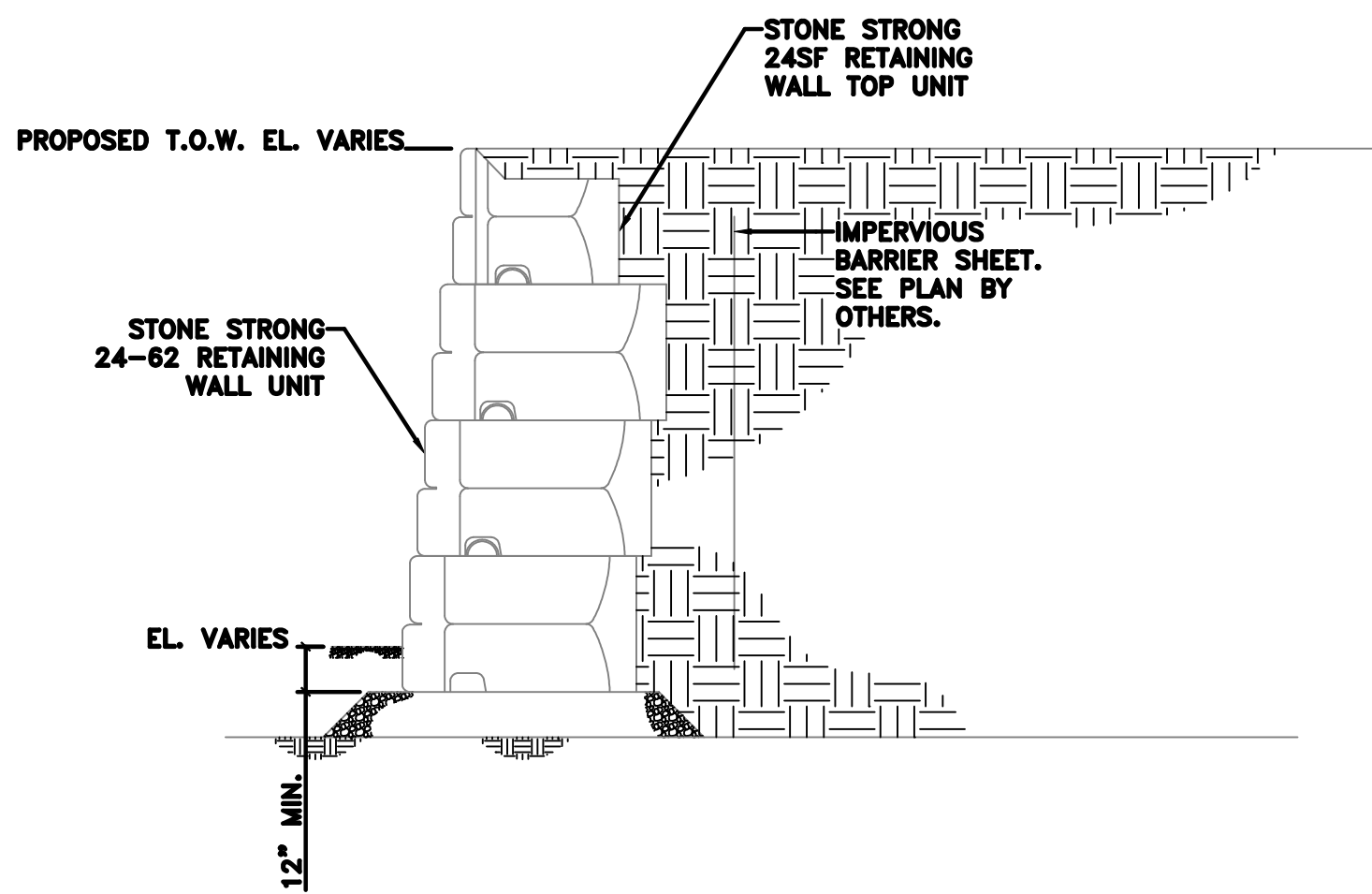
6SF TOP BLOCK
1/4" = 1'-0"



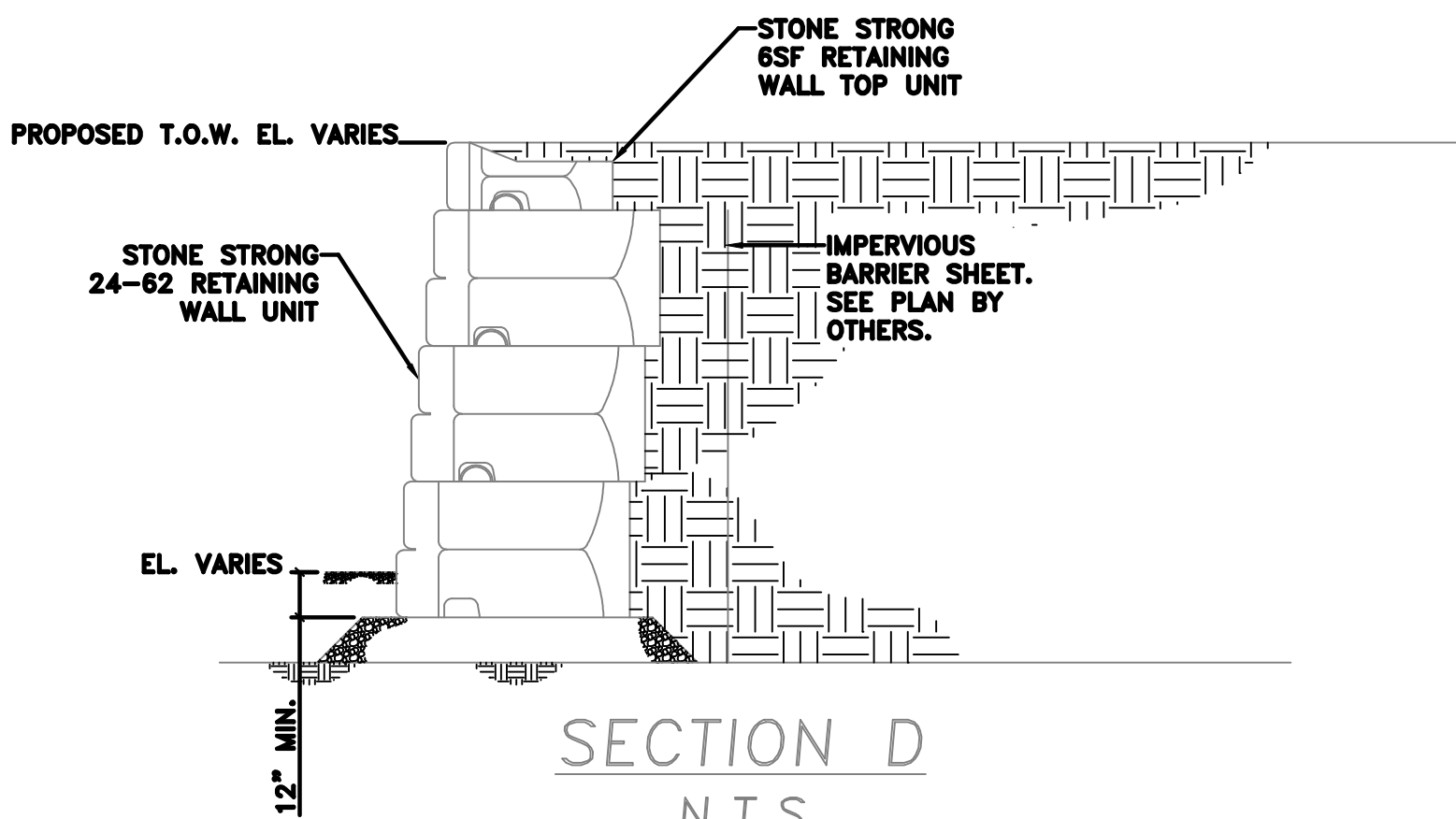
SECTION A
N.T.S.



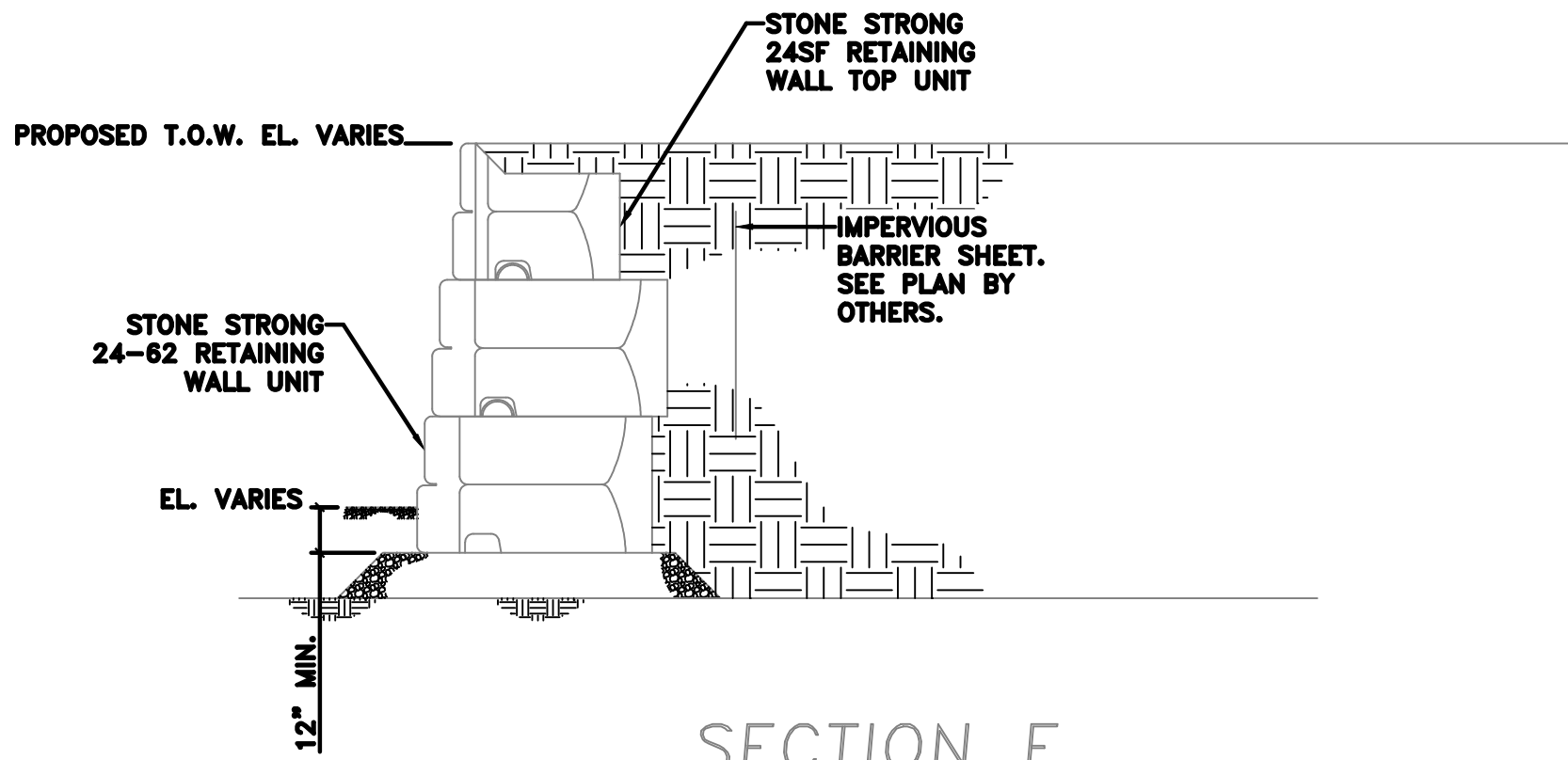
SECTION B
N.T.S.



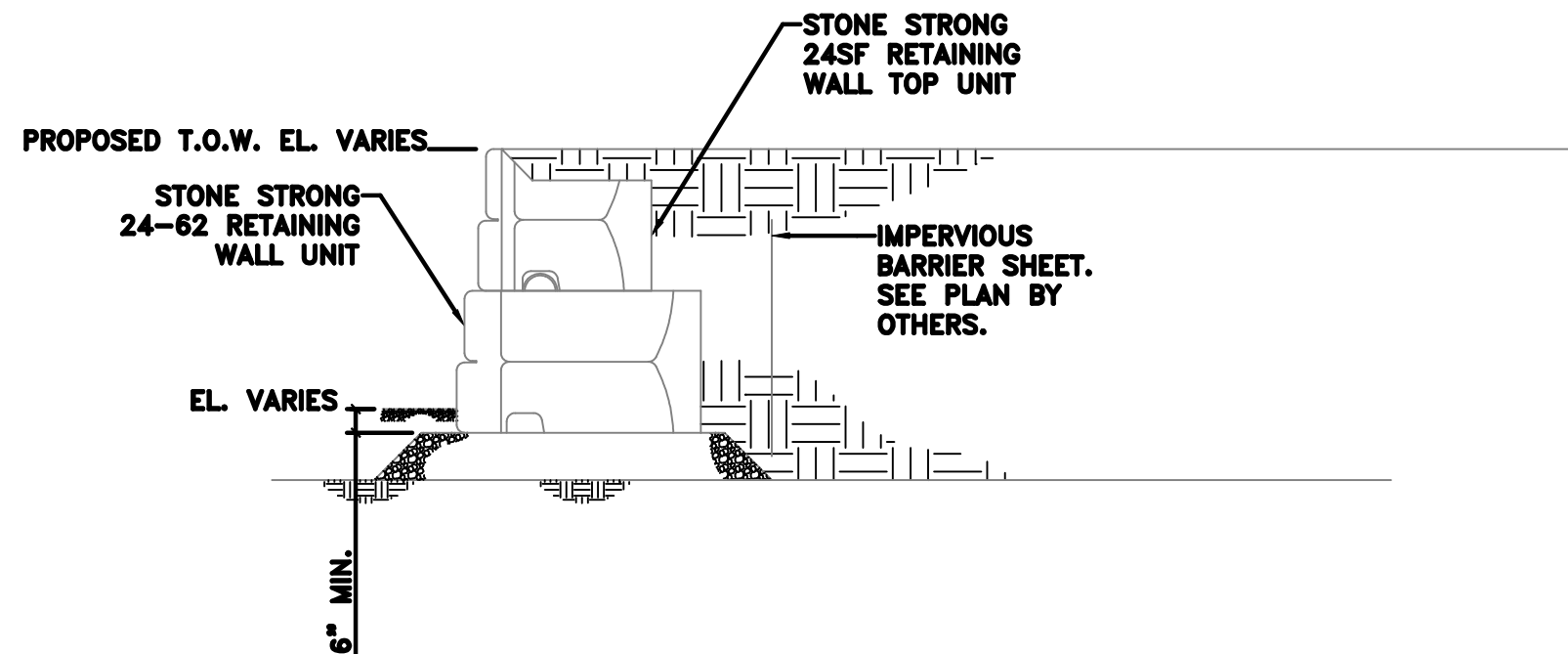
SECTION C
N.T.S.



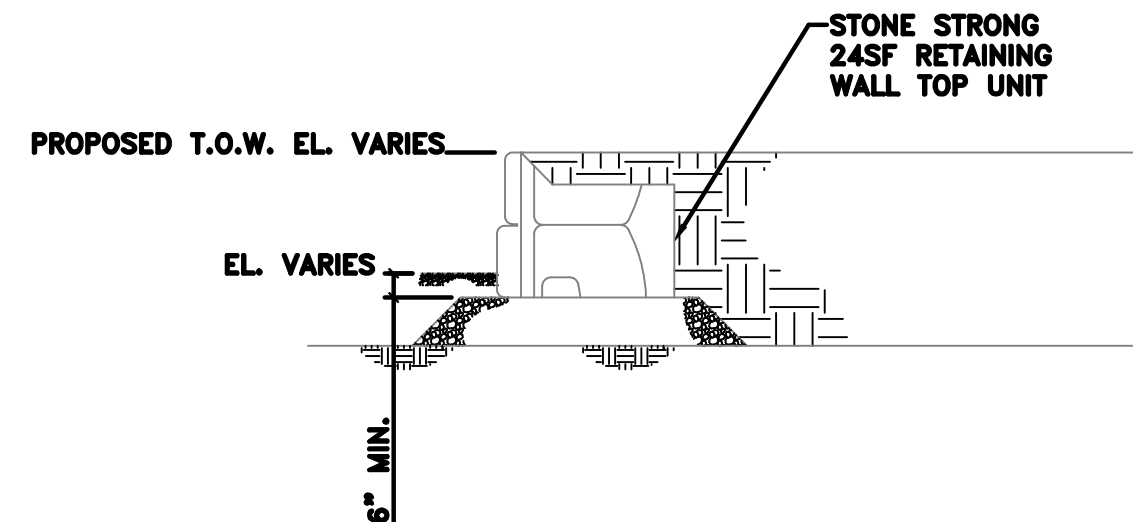
SECTION D
N.T.S.



SECTION E
N.T.S.



SECTION F
N.T.S.



SECTION G
N.T.S.

GENERAL NOTES

THIS DESIGN HAS BEEN PREPARED IN ACCORDANCE WITH THE NATIONAL CONCRETE MASONRY ASSOCIATION DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS (SRW), SECOND EDITION.

VERIFY EXISTING AND PROPOSED SITE GRADING PRIOR TO COMMENCING CONSTRUCTION.

BASE PLAIN TAKEN FROM "PROPOSED CONDITIONS PLAN" DATED 09/12/20 PREPARED BY OTHERS.

THE LOCATION OF EXISTING OR PROPOSED UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION. NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE INSTALLATION OF ANY PORTION OF RETAINING WALL.

PROVIDE FIELD CONTROL OF ALL REINFORCED BACKFILL IN ACCORDANCE WITH SECTION 1804.3.3 OF THE MASSACHUSETTS STATE BUILDING CODE.

INSTALLATION NOTES:

EVALUATE ALL SLOPES IN THE FIELD BY A COMPETENT PERSON PER OSHA REQUIREMENTS. PREVENT DISTURBANCE OF ALL EXPOSED SLOPES AND BENCHES. COVER EXPOSED SLOPES WITH TAUPAULINS OR OTHER SIMILAR COVERINGS TO PREVENT EROSION OR WEATHERINGS.

EXCAVATE AND LEVEL THE SUBGRADE OF WALL AND REINFORCED OR INFILL SOIL ZONE. VERIFY THE CAPACITY OF THE SUBGRADE TO SUPPORT THE WALL. PREPARE SUBGRADE AT WALL AS NEEDED TO CONFORM WITH THE MINIMUM SUBGRADE DESIGN REQUIREMENTS.

INSTALL COMPACTED BASE. BASE MUST EXTEND 6-INCHES (MIN.) IN FRONT, 6-INCHES (MIN) BEHIND, AND 12-INCHES (MIN) BELOW THE FIRST COURSE OF UNITS.

SEE WALL SECTIONS FOR MINIMUM EMBEDMENT REQUIREMENTS. JOINTS BETWEEN ADJACENT UNITS SHOULD ALIGN WITH THE MIDDLE OF THE UNIT ABOVE TO CREATE A RUNNING BOND.

PLACE SEGMENTAL CONCRETE BLOCK UNITS TO THE LIMITS SHOWN ON THIS DRAWING AND IN ACCORDANCE WITH NOTES. INFILL SOIL WITHIN THE REINFORCED ZONE MUST MEET THE GRADATION REQUIREMENTS CONTAINED ON THIS DRAWING. COMPACT ALL INFILL SOIL WITHIN THE REINFORCED ZONE TO AT LEAST 95% DENSITY AS DETERMINED BY ASTM D1557

CONSTRUCT WALL WITH 2 INCH SET BACK PER 3'-0" COURSE IN SECTIONS SHOWN ON THESE DRAWINGS. .

CONCRETE:

ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE. IN CASE OF CONFLICT, THE STATE BUILDING CODE SHALL GOVERN.

ALL CONCRETE SHALL BE CONTROLLED CONCRETE, MIXED AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY.

CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH SAND AND GRAVEL AGGREGATE, TYPE I OR TYPE II PORTLAND CEMENT HAVING A MINIMUM COMPRESSIVE STRENGTH (f'_c) IN 28 DAYS OF 4000 PSI.

ALL CONCRETE SHALL BE AIR ENTRAINED 6% ($\pm 1\%$).

CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATIONS UNTIL THE INTENDED POUR IS COMPLETED.

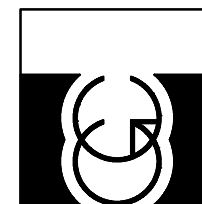
REINFORCING:

ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 EXCEPT WHERE NOTED. ALL REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING BARS MAY NOT BE WELDED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315 - "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," LATEST EDITION.

Rev.	#	Date
3	09/21/21	
4	10/28/21	
5	1/18/22	

Designer/Checker	Scale	AS NOTED
RP/JF	4	5

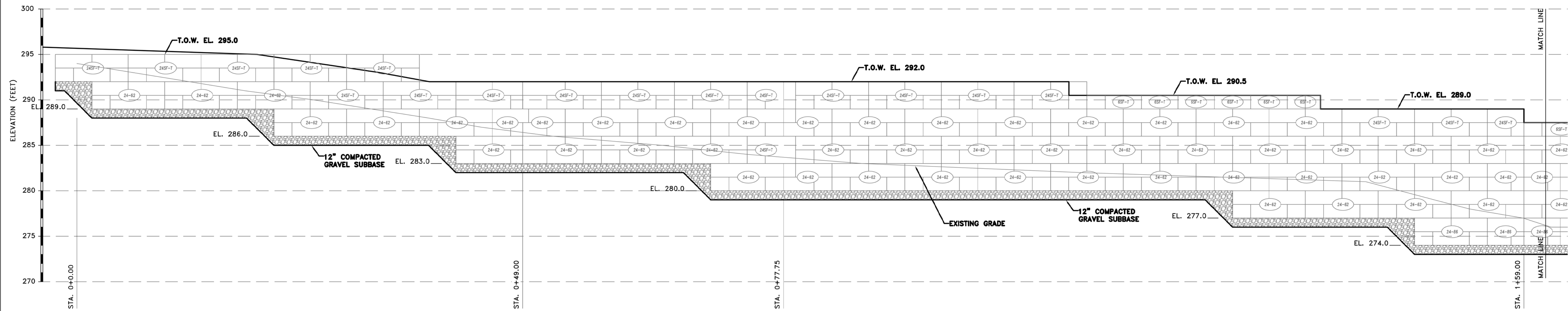


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RETAINING WALL SECT.S & ELEV.S
RED ROBIN PASTURES
COUNTY STREET, DOVER, MA

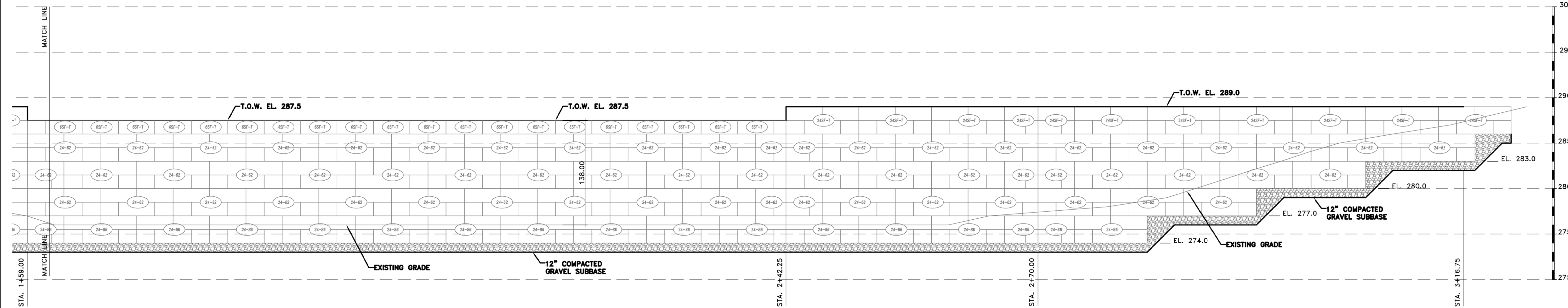
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Sheet No.
C13



ELEVATION VIEW

$\frac{3}{16}'' = 1'-0''$



ELEVATION VIEW

$\frac{3}{16}'' = 1'-0''$

Rev. #	4
Date	10/28/21

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Scale	AS NOTED
Date	05/14/21

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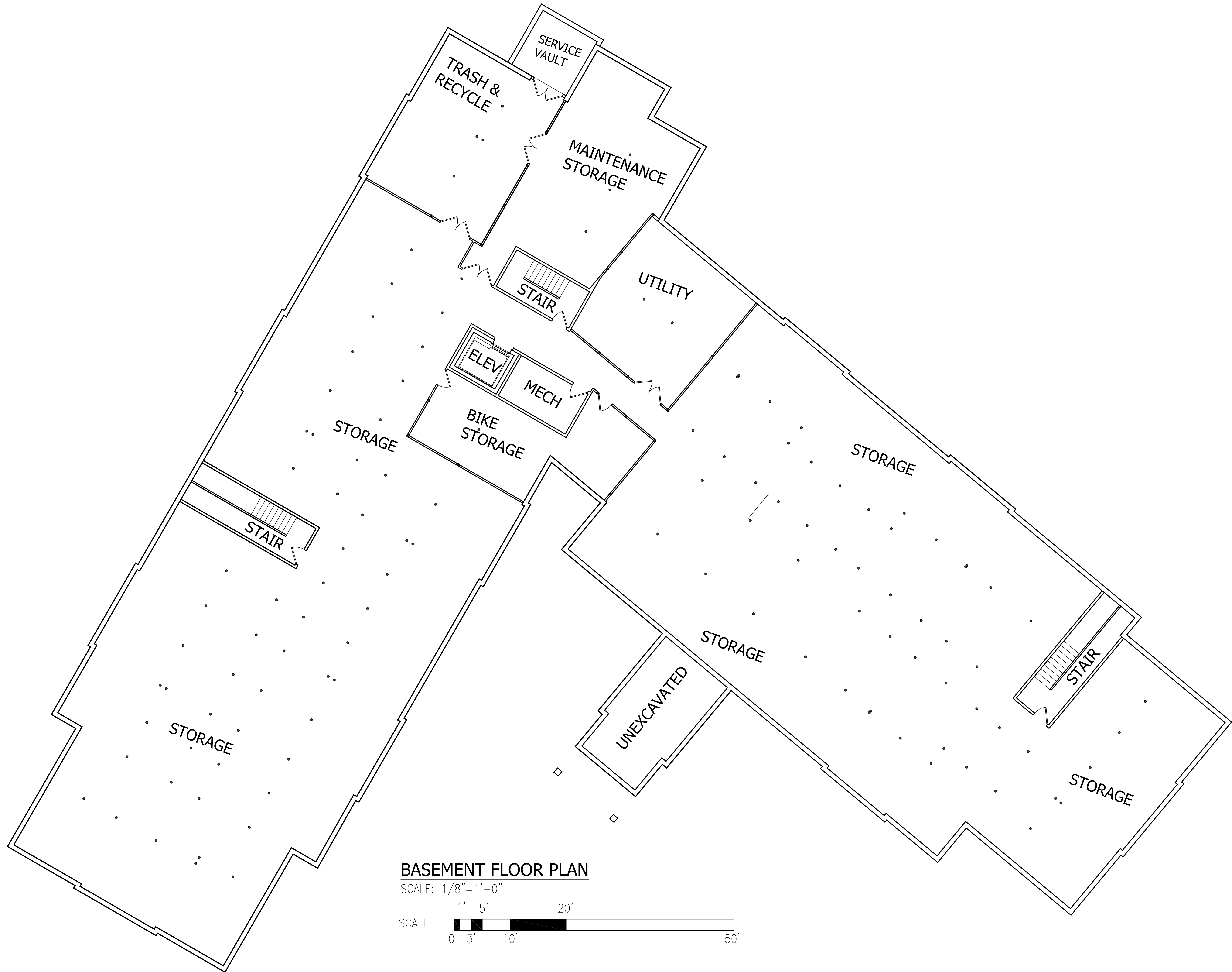


Designer/Draftsman	Rev. #	Date
HB	3	09/21/21
AS NOTED	4	02/25/21
Date		04/27/20

1ST FLOOR PLAN
RED ROBIN PASTURES
COUNTY STREET, DOVER, MA

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A1



Rev.	#	Date
3		09/21/21
4		10/29/21

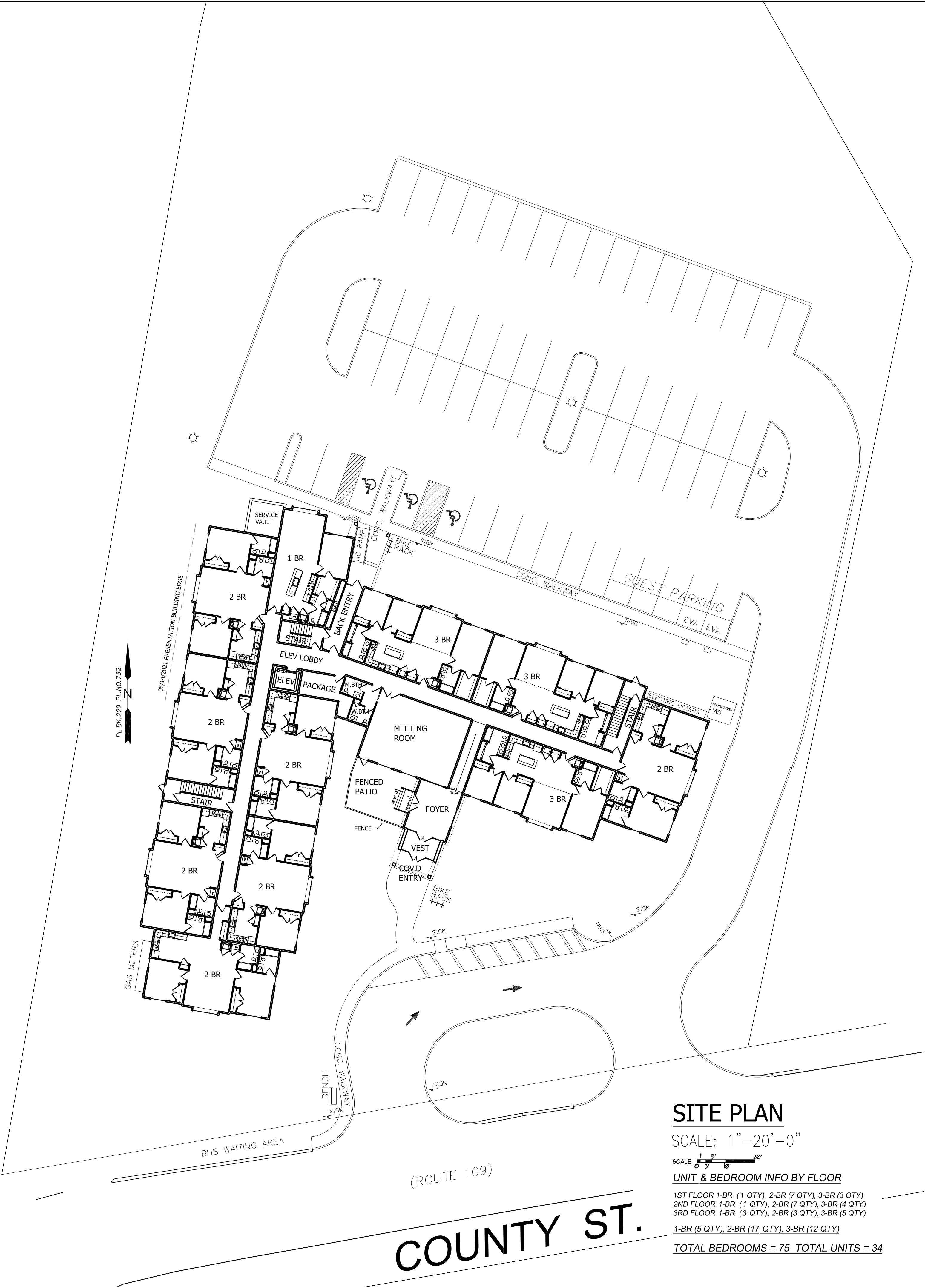
Designer/Drafter	Scale	Date
HB	AS NOTED	08/31/21

Drawing Description
 BASEMENT FLOOR PLAN
 RED ROBIN PASTURES
 COUNTY STREET, DOVER, MA



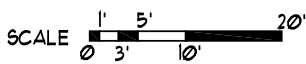
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SITE PLAN

SCALE: 1"=20'-0"



UNIT & BEDROOM INFO BY FLOOR

1ST FLOOR 1-BR (1 QTY), 2-BR (7 QTY), 3-BR (3 QTY)
2ND FLOOR 1-BR (1 QTY), 2-BR (7 QTY), 3-BR (4 QTY)
3RD FLOOR 1-BR (3 QTY), 2-BR (3 QTY), 3-BR (5 QTY)

1-BR (5 QTY), 2-BR (17 QTY), 3-BR (12 QTY)

TOTAL BEDROOMS = 75 TOTAL UNITS = 34

LAND USAGE TABLE - R-1 SINGLE FAMILY RESIDENCE (1 ACRE)

ITEM	REQUIRED DIMENSIONAL REGULATION	PROPOSED DIMENSIONS
MINIMUM LOT AREA	43,560 SQUARE FEET OR 1.00± ACRES	109,809 SQUARE FEET OR 2.52 ACRES
MINIMUM LOT WIDTH	150 FEET	264 FEET
MINIMUM FRONT SETBACK	40 FEET	38'-0" FEET
MINIMUM SIDE SETBACK	30 FEET	32'-6" FEET
MINIMUM REAR SETBACK	30 FEET	222 FEET
MAXIMUM BUILDING HEIGHT	35 FEET (2 1/2 STORIES)	44 FEET (3 STORIES)
MAXIMUM LOT COVERAGE REQUIREMENTS BY STRUCTURES	20%	14.8% (16,321 SF)

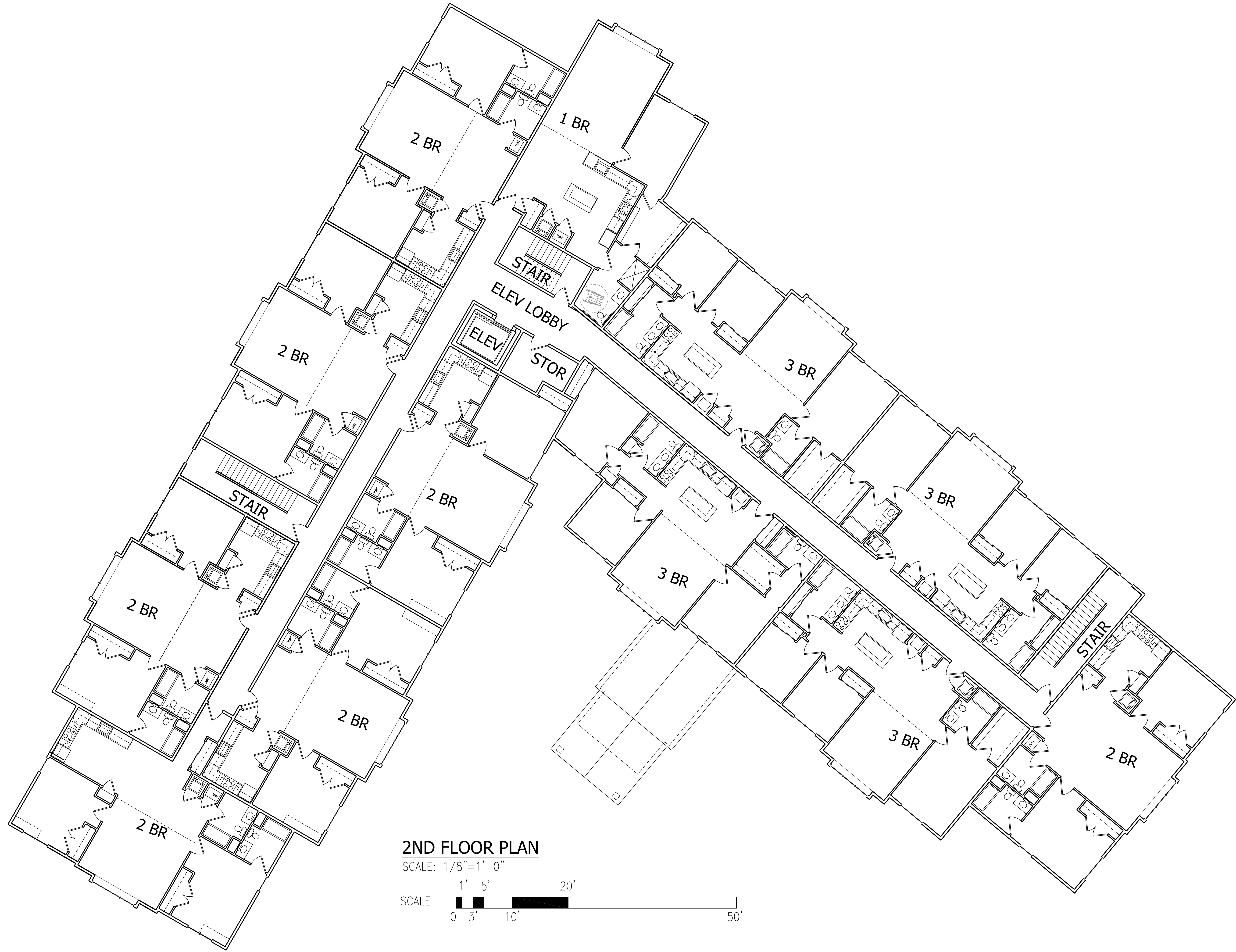
Designer/Drafter	HB	Rev. #	Date
Scale	AS NOTED	3	09/21/21
Date		4	07/29/21

GROUND LEVEL & SURROUNDING SITE
RED ROBIN PASTURES
COUNTY STREET, DOVER, MA

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Rev. #	Date
3	09/21/21
4	02/25/21

Designer/Draftsman	Scale	Date
HB	AS NOTED	04/27/20

2ND FLOOR PLAN
RED ROBIN PASTURES
COUNTY STREET, DOVER, MA

2ND FLOOR PLAN
RED ROBIN PASTURES
COUNTY STREET, DOVER, MA

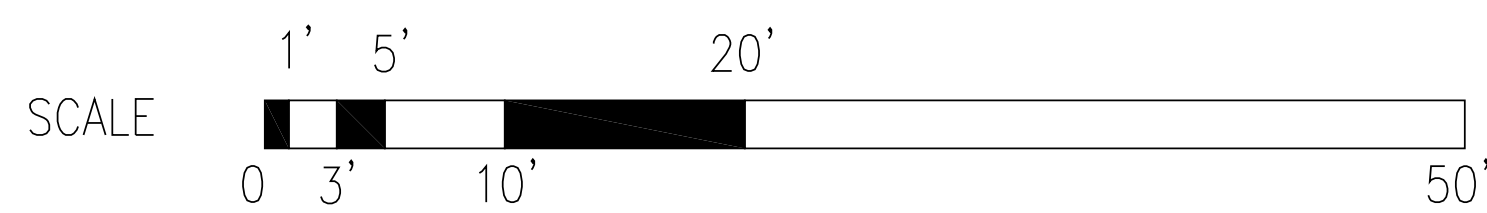
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A2



3RD FLOOR PLAN

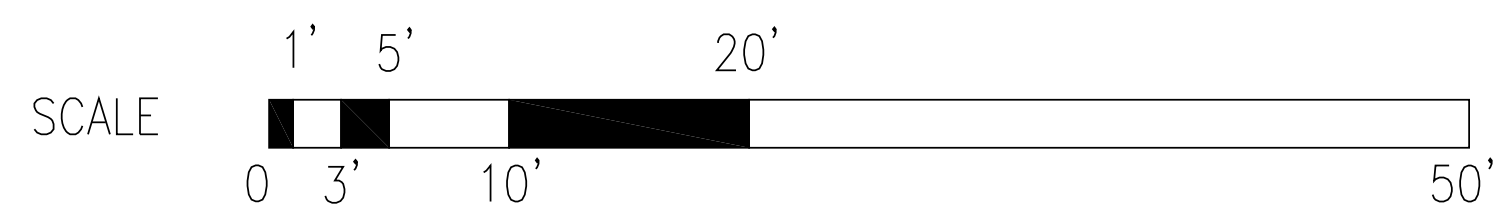
SCALE: 1/8"=1'-0"





ROOF PLAN

SCALE: 1/8"=1'-0"



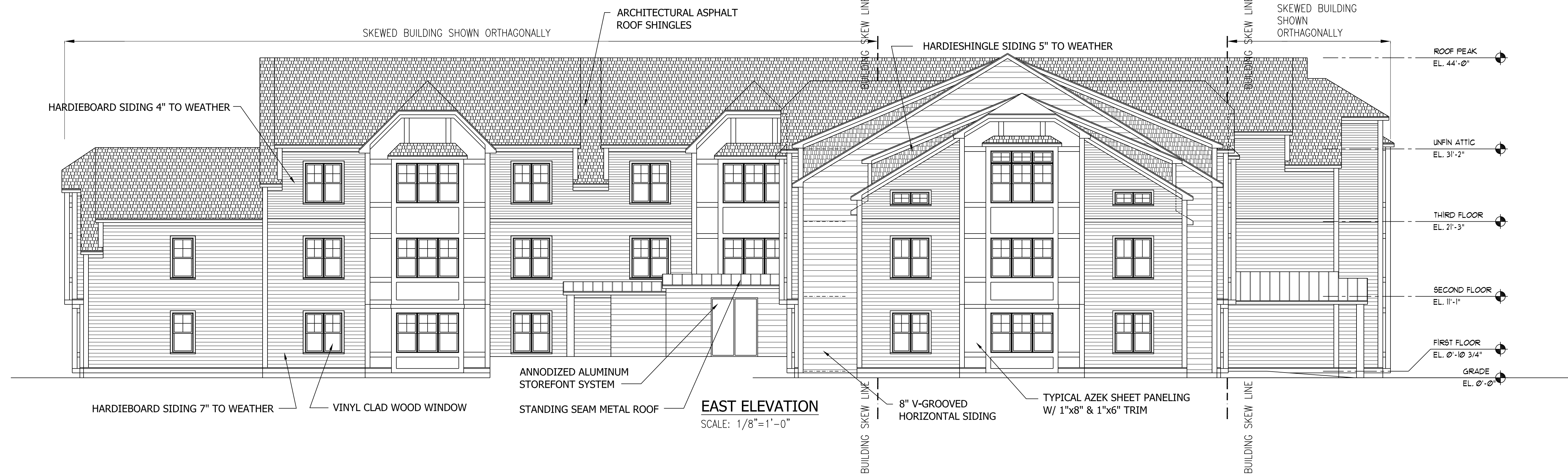


Date	Rev. #
09/21/21	3
10/20/21	4

Designer/Draftsman	Scale	Date
HB	AS NOTED	04/27/20

STREET & PARKING LOT ELEVATIONS
RED ROBIN PASTURES
COUNTY STREET, DOVER, MA

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Date	Rev. #
09/21/21	3
10/29/21	4

Designer/Draftsman	Scale	Date
HB	AS NOTED	04/27/20

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Drawing Description
EAST & WEST ELEVATIONS
RED ROBIN PASTURES
COUNTY STREET, DOVER, MA

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A6

LANDSCAPING NOTES

NOTIFY DIG-SAFE AT 1-888-DIG-SAFE AND LOCAL AUTHORITIES PRIOR TO ANY TYPE OF SITE PREPARATION OR CONSTRUCTION.

THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL AND MULCH IN SUFFICIENT QUANTITIES TO COMPLETE PLANTING AS SHOWN ON THE DRAWINGS.

DRAWING QUANTITIES TAKE PRECEDENCE OVER PLANT LIST QUANTITIES.

ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES SET FORTH BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.

ALL TREES AND SHRUBS SHALL BE PLANTED WITH THE 'BEST FACE' SHOWING. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.

ALL CONTAINER GROWN SITS SHALL BE HEALTHY, VIGOROUS, WELL ROOTED AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE GROWING. THEY SHALL HAVE TOPS OF GOOD QUALITY, NO APPARENT INJURY AND BE IN A HEALTHY GROWING CONDITION. A CONTAINER GROWN PLANT SHALL HAVE A WELL ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER TO MAINTAIN A FIRM BALL.

THE QUALITY OF ALL TREES & SHRUBS IS TO BE NORMAL FOR THE SPECIES. ALL PLANTS ARE TO HAVE DEVELOPED ROOT SYSTEMS, TO BE FREE OF INSECTS AND DISEASES AS WELL AS MECHANICAL INJURIES, AND IN ALL RESPECTS BE SUITABLE FOR PLANTINGS.

ALL CONTERS SHALL HAVE DOMINANT BUDS AND SECONDARY NEEDLES.

WHERE SPECIFIED, CALIPER SIZE IS TO BE THE OVERRIDING FACTOR IN TREE SELECTION. CALIPER SIZE SHALL BE MEASURED 12" ABOVE THE ROOTBALL.

PLANT SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.

ALL DISTURBED AREAS NOT SHOWN OTHERWISE SHALL BE LOAMED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS.

PRIOR TO INSTALLING ANY PLANT MATERIAL, THE CONTRACTOR SHALL SUBMIT A LOAM SOIL SAMPLE FOR A ROUTINE, ORGANIC, SALTS, AND NITRATE SOIL TEST. UPON THE RESULTS OF THIS TEST, THE SITE CONTRACTOR SHALL AMEND THE LOAM AS RECOMMENDED. SEND THE SOIL SAMPLE TO THE UNIVERSITY OF MASSACHUSETTS SOIL AND PLANT TISSUE TESTING LABORATORY, WEST EXPERIMENT STATION, 682 NORTH PLEASANT ST., UNIVERSITY OF MASSACHUSETTS, AMHERST, MA 01003.

LAWN SEED MIX SHALL BE THE PREVIOUS YEARS CROP: 35% JEFFERSON KENTU BLUEGRASS, 35% CARMEN CHEWING PESCUE AND 30% STALLION PERENNIAL RYEGRASS, OR APPROVED EQUAL. PLANT AT A RATE OF 1 LB. PER 150 SQUARE FEET.

SLOPE SEED MIX SHALL BE THE PREVIOUS YEARS CROP. PLANT AT A RATE OF 1 LB. PER 150 SQUARE FEET. SEED MIX SHALL BE STALLION PERENNIAL RYE 10%, CREEPING RED PESCUE 50%, ANNUAL RYE GRASS 15%, JEFFERSON KENTU BLUE GRASS 10%, RED TOP CLOVER 5%, AND LADINO CLOVER 5%, OR APPROVED EQUAL. PLANT AT A RATE OF 1 LB. PER 150SF.

LAWN SEED AREAS SHALL BE NOT BE DEEMED ACCEPTABLE UNTIL IN EXCESS OF 90% OF EACH AREA, INDEPENDENTLY, IS GERMINATED, GROWING AND DISPLAYING HEALTHY, UNIFORM GROWTH AND HAS BEEN CUT TWICE. THE SITE CONTRACTOR IS RESPONSIBLE FOR APPLYING AT A MINIMUM 1" OF WATER A WEEK UNTIL THE SEEDED AREAS HAVE BEEN ACCEPTED. THE WATERING SHALL OCCUR IN SMALL DOSES. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY WEEDS (CRAB GRASS) WITHIN THE SEEDED AREAS UNTIL THE SEEDED AREAS HAVE BEEN ACCEPTED.

THE HYDRO SEED SLURRY SHALL BE A WOOD BASED BONDED FIBER MATRIX. THE APPLICATION RATE SHALL BE 2,500-3,000LB. PER ACRE SPRAYED IN A LEAST TWO DIRECTIONS. DO NOT APPLY HYDRO SEED SLURRY IF RAIN IS EXPECTED WITHIN 12 HOURS, AND WHEN TEMPERATURES ARE BELOW 50 DEGREES.

PRIOR TO PLANTING, THE LANDSCAPER SHALL REVIEW AND COORDINATE WITH THE SITE UTILITY PLAN AND GRADING PLAN.

THE ROOTS OF NEWLY PLANTED TREES AND SHRUBS MUST BE KEPT STEADILY MOIST, AS THE DEVELOPING ROOTS ESTABLISH IN THE NEW SOIL. AT PLANTING, WATER THOROUGHLY TO SOAK THE ROOTS AND TO SETTLE THE NEW SOIL AROUND THE ROOT BALL. THE ROOTER NEEDS EACH WEEK DURING THE FIRST GROWING SEASON AFTER PLANTING DEPENDS ON RECENT RAINFALL, TEMPERATURE, AND WIND. IF LESS THAN ONE-INCH OF RAIN HAS FALLEN OVER THE PAST FIVE TO SEVEN DAYS, THE NEW PLANTINGS MUST BE WATERED. LAWNS, TREES, AND SHRUBS WATERING SHALL OCCUR AT A MINIMUM OF TWO (2) TIMES A DAY FOR THE FIRST TWO (2) MONTHS, ONCE IN THE EARLY MORNING AND THEN THE OTHER IN THE LATE AFTERNOON. IN GENERAL TEN GALLONS OF WATER APPLIED TWICE A WEEK WILL WET A 20'-24' ROOT BALL AND PROVIDE THE EQUIVALENT OF ONE INCH OF RAINFALL. NEW LAWNS SHALL BE WATERED SO THAT IS RECEIVES AT A MINIMUM ONE (1") OF WATER EVERY WEEK.

WITHIN THE LANDSCAPE BEDS ADJACENT TO THE BUILDING FOUNDATIONS, NO (HEMLO, PINE, SPRUCE, OR CEDAR) MULCH OR OTHER COMBUSTIBLE LANDSCAPE MATERIALS SHALL BE INSTALLED WITHIN 18" OF THE FOUNDATION.

ALL LANDSCAPE BEDS SHALL RECEIVE THREE-INCHES OF BARK MULCH.

LANDSCAPE AREAS SHALL BE DEEP TILED TO A DEPTH OF TWELVE INCHES TO FACILITATE DEEP WATER PENETRATION.

ALL TREE AND VEGETATION REMOVAL SHALL BE IN COORDINATION WITH THE PROJECT LANDSCAPE ARCHITECT.

THE EXISTING MATURE PLANT MATERIAL ALONG THE SIDE LOT LINE TO REMAIN WHERE AFFLICABLE.

INSTALL 8' HIGH SOLID WOODEN FENCE AT OR ADJACENT TO THE LOT LINE TO THE BACK CORNER OF THIS PROPERTY SIDE

THE EXISTING EVERGREENS ALONG THE SIDE LOT LINE TO REMAIN WHERE APPLICABLE.

SEE INSERT 'A' FOR VIEW OF THE REMAINING PORTION OF THE LOT

MATCH LINE

PROPOSED OUTDOOR SITING AND GRILLING AREAS (TYP)

ACCESSIBLE WALKWAY

PROPOSED RETAINING WALL WITH FENCING

PROPOSED TOT LOT AREA

PROPOSED EDGE OF WOODS

GRASS SWALE

4' HIGH BLACK CHAIN LINK FENCE, THE EXTENT, LOCATION AND STYLE TO BE REVIEWED AND CONFIRMED AT TIME OF INSTALLATION

ELECTRIC CHARGING STATIONS

DO NOT TRIM LEADER

SET TREE PLUMB PRIOR TO GUYING; ORIGINAL GRADE OF TREE BASE TO BE PLANTED SLIGHTLY HIGHER (2.5'-3') ABOVE EXISTING GRADE TO ALLOW FOR SETTLEMENT

CUT AND REMOVE BURLAP FROM TOP OF ROOTBALL ROUGHEN SIDES OF FIT PRIOR TO PLANTING

EARTH ANCHOR

6" HIGH MOUND OF TOPSOIL COMPACTED

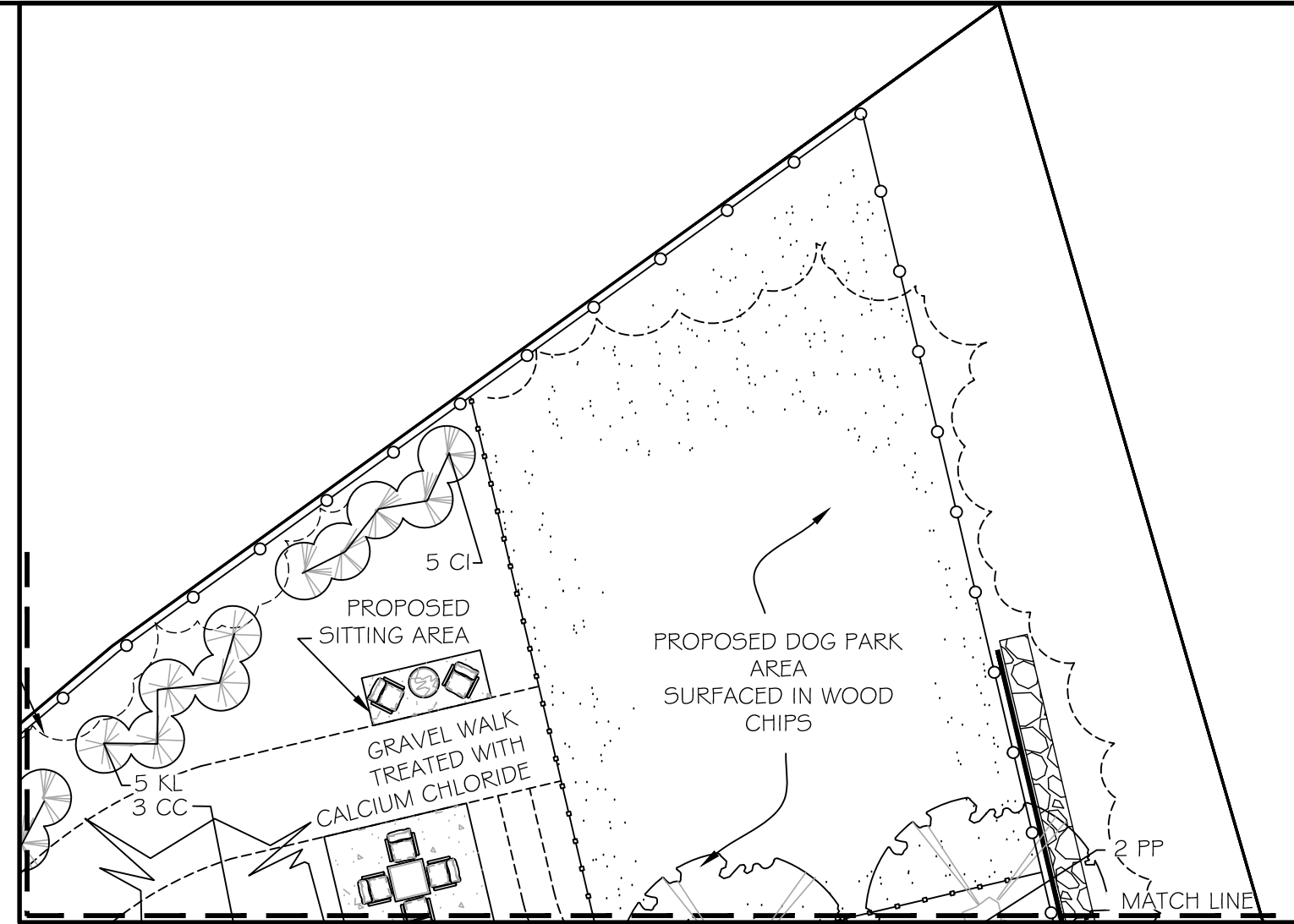
NOTE: SET CROWN OF ROOTBALL 1-2' ABOVE GRADE

3-5 x ROOTBALL

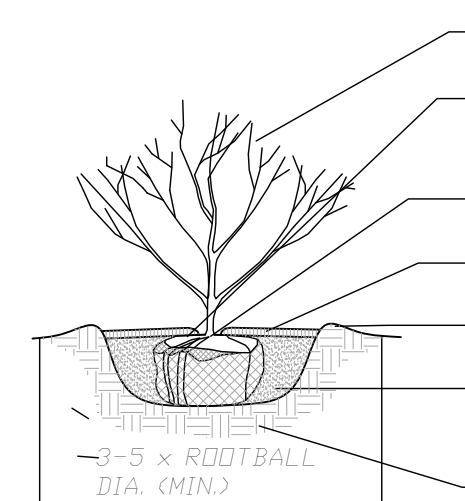
TREE PIT

3-5 x ROOTBALL

NOT TO SCALE



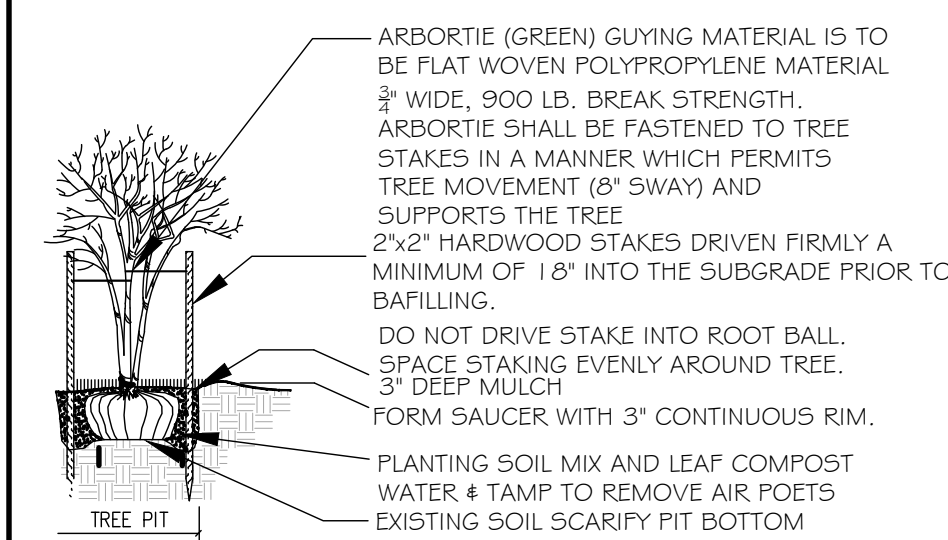
INSERT 'A'



SHRUB PLANTING

(NOT TO SCALE)

Planting Schedule					
Qty.	Key	Common Name	Botanical Name	Size	Remarks
TREES					
2	AF	'Freeman' Maple	<i>Acer x freemanii</i>	3" Cal.	B&B
2	BN	River Birch	<i>Betula nigra</i>	18"Ht.	B&B multistem
3	CC	Eastern Redbud	<i>Cercis canadensis</i>	3" Cal.	B&B
1	CD	Turkish Filbert	<i>Corylus corulina</i>	3" Cal.	B&B
8	CK	Chinese Dogwood	<i>Cornus kousa chinensis</i>	3" Cal.	B&B
8	CS	'Satomi' Dogwood	<i>Cornus kousa 'Satomi'</i>	3" Cal.	B&B
3	CV	'Winter King' Hawthorn	<i>Crataegus viridis 'Winter King'</i>	3" Cal.	B&B
2	FS	'Red Obelisk' Beech	<i>Fagus sylvatica 'Red Obelisk'</i>	3" Cal.	B&B
8	HG	'Gracilis' Hinoki Cypress	<i>Cham. obtusa 'Gracilis'</i>	7" Ht.	B&B
3	HT	'Tardiva' Hydrangea	<i>Hydrangea paniculata 'Tardiva' treeform</i>	3" Cal.	B&B
6	PA	Norway Spruce	<i>Picea abies</i>	8" Ht.	B&B
9	PB	'Hoopsi' Blue Spruce	<i>Picea pungens 'Hoopsi'</i>	10" Ht.	B&B
6	PJ	White Spruce	<i>Picea glauca</i>	8" Ht.	B&B
9	PP	Persian Parrotia	<i>Parrotia persica</i>	3" Cal.	B&B
2	PR	'Redspire' Pear	<i>Pyrus calleryana 'Redspire'</i>	3" Cal.	B&B
7	QP	'Green Pillar' Oak	<i>Quercus palustris 'Green Pillar'</i>	3" Cal.	B&B
3	TG	'Green Giant' Arborvitae	<i>Thuja occidentalis 'Green Giant'</i>	8" Ht.	B&B
2	TS	'Degroote's Spire' Arborvitae	<i>Thuja occidentalis 'Degroote's spire'</i>	8" Ht.	B&B
SHRUBS					
1	AP	'Pink Discovery' Azalea	<i>Azalea sp. 'Pink Discovery' 'evergreen'</i>	24" Ht.	B&B
2	BD	'Pink Delight' Butterfly Bush	<i>Buddleia davidii 'Pink Delight'</i>	24" Ht.	B&B
3	BH	Graham Brandy Boxwood	<i>Buxus sempervirens 'Graham Brandy'</i>	3" Ht.	B&B
7	BS	'Dee Runk' Boxwood	<i>Buxus sempervirens 'Dee Runk'</i>	3" Ht.	B&B
3	CG	'Grand Bleu' Bluebeard	<i>Caryopteris x clandonensis 'Grand Bleu'</i>	#7 Pot	Container Grown
3	CH	'Golden Mops' Hinoki Cypress	<i>Chamaecyparis obtusa 'Golden Mops'</i>	24"Ht.	B&B
12	CI	'Insanti' Dogwood	<i>Cornus sericea 'Insanti'</i>	24"Ht.	B&B
2	DH	'Carol Maie' Daphne	<i>Daphne burkwoodii 'Carol Maie'</i>	24"Ht.	B&B
3	GL	Great laurel	<i>Rhododendron maximum</i>	48"Ht.	B&B
3	HA	'Abetwo' Hydrangea	<i>Hydrangea arborescens 'Abetwo'</i>	24"Ht.	B&B
3	HP	Golden Cup St. John's Wort	<i>Hypericum Hidcote</i>	24"Ht.	B&B
3	HQ	'Pee Wee' Hydrangea	<i>Hydrangea quercifolia 'Pee Wee'</i>	24"Ht.	B&B
2	HR	'Blue chiffon' Hibiscus	<i>Hibiscus syriacus 'Rose Satin'</i>	5" Ht.	B&B
19	JH	'Hollywood' Juniper	<i>Juniperus chinensis 'Hollywood'</i>	48" Ht.	B&B
5	JS	'Steads' Holly	<i>Ilex crenata 'Steads'</i>	24"Ht.	B&B
8	JT	'Emerald Sentinel' Juniper	<i>Juniperus virginiana 'Emerald Sentinel'</i>	6" Ht.	B&B
8	JV	'Taylor' Red Cedar	<i>Juniperus virginiana 'Taylor'</i>	60" Ht.	B&B
1	JW	'Witchita Blue' Juniper	<i>Juniperus scopulorum 'Wichita Blue'</i>	60" Ht.	B&B
8	KJ	'Golden Guinea' Kerria	<i>Kerria japonica 'Golden Guinea'</i>	24"Ht.	B&B
5	KL	'Peppermint' Mtn. Laurel	<i>Kalmia latifolia 'Peppermint'</i>	48" Ht.	B&B
4	LE	'Coast' Leucothoe	<i>Leucothoe axillaris</i>	24"Ht.	B&B
1	LP	California Privet	<i>Ligustrum ovalifolium</i>	4" Ht.	B&B
6	MP	Northern Bayberry	<i>Myrica pensylvanica</i>	4" Ht.	B&B
2	PF	'Happy Face' Potentilla	<i>Potentilla fruticosa 'Happy Face'</i>	#7 Pot	Container Grown
2	PH	'Mindia' Purple Ninebark	<i>Physocarpus opulifolius 'Coppertina'</i>	24"Ht.	B&B
1	PO	'Dakota Sunrise' Potentilla	<i>Potentilla fruticosa 'Dakota Sunrise'</i>	#7 Pot	Container Grown
9	RM	'Blushing Kno out' Rose	<i>Rosa sp. 'Blushing Kno Out'</i>	24"Ht.	B&B
2	SA	'Fleming' Japanese Willow	<i>Salix integra 'Fleming'</i>	24"Ht.	B&B
6	SB	'Shirobi' Spirea	<i>Spirea japonica 'Shirobi'</i>	24"Ht.	B&B
6	SD	'Boomerang' Lilac	<i>Syringa x oeda 'Boomerang'</i>	24"Ht.	B&B
1	VC	'Summer Snowflake' Viburnum	<i>Viburnum plicatum 'Summer Snowflake'</i>	24"Ht.	B&B
7	VM	'Blue Muffin' Viburnum	<i>Viburnum dentatum 'Blue Muffin'</i>	24"Ht.	B&B
3	VP	'Popcorn' Viburnum	<i>Viburnum plicatum 'Popcorn'</i>	48" Ht.	B&B
2	WE	'Tuxedo' Weigela	<i>Weigela florida 'Tuxedo'</i>	24"Ht.	B&B
1	YF	'Bright Edge' Yucca	<i>Yucca filamentosa 'Bright Edge'</i>	24"Ht.	B&B
PERENNIALS					
28	CF	'Foerester's Feather Reed Grass	<i>Calamagrostis x acuti. 'Karl Foerester'</i>	#3 Pot	Container Grown
16	HB	'Big Daddy' Hosta	<i>Hosta sp. 'Big Daddy'</i>	#3 Pot	Container Grown
25	SH	'Hameln' Fountain Grass	<i>Pennisetum alopecuroides 'Hameln'</i>	#1 Pot	Container Grown



DECIDUOUS TREE PLANTING

(NOT TO SCALE)

DURING CONSTRUCTION, THE EXISTING PLANT MATERIAL ALONG THE SIDE LOT LINE TO REMAIN WHERE POSSIBLE.

HEIGHT: 40-60'

HEIGHT: 40-50'

3' PL MATURE HEIGHT: 40-60'

PROPOSED ACCESS GATE/BARRIER. ACCESS TO BE CONTROLLED BY DOVER EMERGENCY PERSONNEL ONLY

6' HIGH WOODEN FENCE TO BE INSTALLED ON THE INBOUND SIDE OF THE EXISTING TREES FROM THE ENTRANCE TO THE LOCATION OF THE EXISTING UTILITY POLE ON THE ABUTTERS DRIVEWAY. EVERGREEN PLANTINGS TO BE PROVIDED ON THE OUTBOUND SIDE OF THE FENCE BETWEEN THE FENCE AND THE DRIVEWAY WITH THE INTENT TO PROVIDE AS MUCH SCREENING AS POSSIBLE. ABUTTERS FACE OF FENCE TO MIMIC THE STYLE OF FENCE ON THE OPPOSITE SIDE OF ABUTTERS DRIVEWAY

Fold ends of ArborTie ba.

Secure to stake with 1" galvanized roofing nail or use a knot.

ArborTie

ArborTie nailed to stake

ArborTie

ArborTie

ArborTie

ArborTie

ArborTie

ArborTie

ArborTie

ArborTie

ArborTie

ArborTie

ArborTie

Drawn	10/14/21
Checked	12/02/21
Designed	12/02/21
Revised	12/02/21

Scale	1"=20'
Date	12/18/2020

Signature

Redrobin Pastures

Dovermass

Landscapes

Plan

Sheet No.

L1

of 26

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Plan

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Landscapes

Plan

Sheet No.

L1

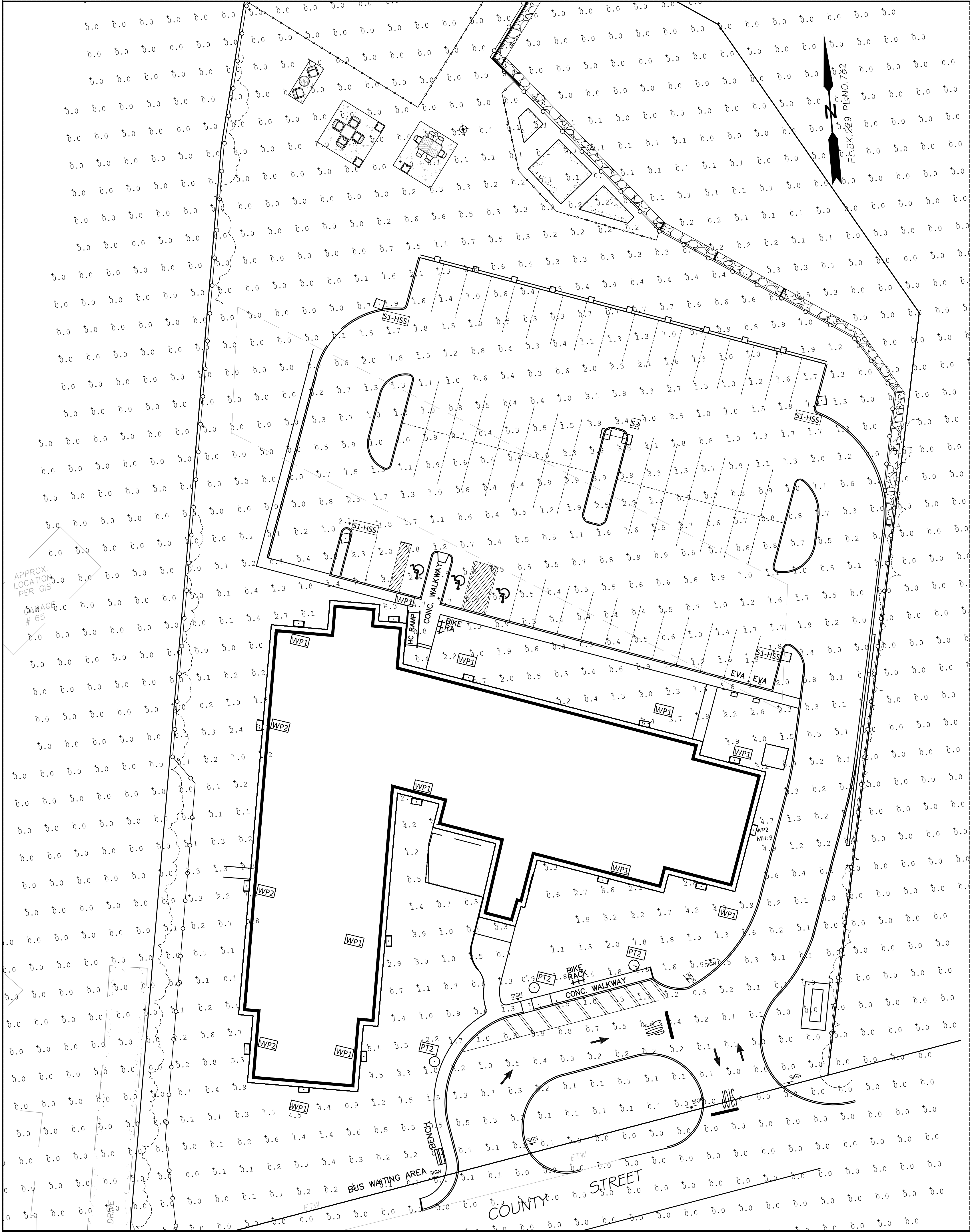
of 26

73 Bishop Road, Sharon, MA 02067

781-806-0065

Signature Designs

ARCHITECTURE



WALL MOUNTED FIXTURE



PARKING LOT FIXTURE



FRONT ENTRANCE FIXTURE

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
LOT_Planar	Fc	0.34	7.7	0.0	N.A.	N.A.

Luminaire Schedule							
Symbol	Label	Lumens/Lamp	Lum. Lumens	Lum. Watts	LLF	Description	MH
	PT-2	N.A.	2800	28	0.900	NLS: BV-M-T5-16L-53-40K	9'
	WP1	N.A.	2561	20.7	0.900	LUMARK: AXCS2A	12'
	S3	N.A.	6551	52	0.900	LUMARK: PRV-C15-D-UNV-T2-BZ-HSS	18'
	WP2	N.A.	1806	13.5	0.900	LUMARK: AXCS1A	9'
	S1-HSS	N.A.	6437	52	0.900	LUMARK: PRV-C15-D-UNV-T4-BZ-HSS	18'

LIGHTING PLAN WAS PERFORMED IN COORDINATION WITH REFLEX LIGHTING AND GREYBAR ELECTRIC.
CONTACT: William Donahue | Inside Sales Representative Worcester, MA | Office (508) 453-4021

Date	
10/14/21	01/25/22

Revision	
3	4

Designer/Checker	
LOG	12/14/2020
Scale	1"=20'

LightingPLAN LIGHTINGPLAN DWGDISC-L2 DWGDISC-L3
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Signature Des ARCHITECTURE 73 Bishop Road, Sharon, MA 02067 781 806-0065
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Sheet No. L2 OF 22
