

TOWN OF NORWICH
DEVELOPMENT REVIEW BOARD
AGENDA
Thursday, February 20, 2025
6:30 PM

Via Zoom and in Person at Tracy Hall:

Topic: Development Review Board

Time: February 20, 2025 06:30 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/89931976970>

Meeting ID: 899 3197 6970

888 475 4499 US Toll-free

1. Call to Order, Roll Call

2. Approve Agenda

3. Approve Minutes

a. [1-16-2025](#)

4. Public Comments

5. Announcements and Correspondence

6. [Boundary Line Adjustment](#)

Application #2BLA25: Applicant(s) Erik Randall & Thomas F. and Cyndia Randall; 00 New Boston Road & 1268 New Boston Road; Rural Residential (RR) District; parcel id no(s): 05-014.120 & 05-014.100

7. Zoning Administrator Update and Upcoming Matters

8. Other Business

9. Adjournment

Future Meeting: TBD

DRB Minutes available at: <http://norwich.vt.us/development-review-board/>

To receive copies of Town agendas and minutes, please send an email request to be added to the town email list to the Town Manager's Assistant at: manager-assistant@norwich.vt.us

**TOWN OF NORWICH
DEVELOPMENT REVIEW BOARD
Draft Minutes
Thursday, January 16, 2025
Tracy Hall and Zoom**

Members present: Patrick Bradley (chair), Linda Gray, Don McCabe, Emily Myers, Sue Pitiger, Matthew Stuart

Alternates present: none

Members absent: Alec Orenstein

Staff: Steven True, Planning Director & Zoning Administrator

Minute Taker: Linda Gray

Others Present: Elissa Close and Chris Brady, 64 Partridge Hill

1. Call to Order: by Chair Bradley at 7:01 pm. Roll call of Board members.
2. Approve Agenda: True noted a correction: Boundary Line Adjustment c) should read “becomes approximately 7.012 acres” (instead of 7.952 acres). Pitiger moved, Myers seconded a motion to approve the corrected agenda. Motion carried unanimously.

3. Minutes: Myers moved, McCabe seconded a motion to approve the November 7, 2024, minutes. Motion carried unanimously.

4. Public Comment: none.

5. Announcements and Correspondence: none.

6. Boundary Line Adjustments

IBLA25: The Boundary Line Adjustment proposes to:

A.) Merge parcel A and Parcel C presently on Lot 10-202.000 for a total of ~6.09 acres combined.

B.) Reduce Lot 10-203.000 by approximately 0.571 and 0.351 acres, as estimated on the map, transferring approximately 0.922 acres to Lot 10-202.000.

C.) After adjustment, Lot 10-202.000 (64 Partridge Hill) becomes approximately 7.012 acres, and Lot 10-203.000 (38 Partridge Hill) becomes approximately 0.678 acres.

Property owners Elissa Close and Chris Brady explained the history of the parcels. Planning Director True noted the administrative nature of boundary line adjustments.

Gray moved and Stuart seconded a motion that #1BLA25 meets the criteria in Section 2.1(D)(1) and therefore the Zoning Administrator may approve the filing with the Town of a final plat of the Boundary Line Adjustment. Motion carried unanimously.

7. Zoning Administrator update: True updated the board on the work of the Planning Commission to modernize the Town bylaws, starting first with the Zoning Regulations, which were adopted in 2009. They are revising first those elements that need to comply with changes in state laws and rules. He asked board members to email him their suggestions for changes to improve clarity or process.

8. Other Business: none

9. Meeting Adjournment: Pitiger moved, Myers seconded a motion to adjourn. Motion carried unanimously; meeting adjourned at 7:50 pm.

Respectfully submitted,
Linda Gray

TO: Development Review Board
FROM: Steven True, Zoning Administrator
RE: #2BLA25; Applicant: Randall, Erik
LOCATION: 00 New Boston RD (05-014.120) Erik H. Randall, Landowner and
1268 New Boston RD (05-014.100), Thomas F. Randall and Cindia Randall;
Landowners, Rural Residential District
DATE: 02-11-2025

Lots: 05-014.120 Erik H. Randall, 00 New Boston RD, (DEVELOPED with a
Development Envelope and IMPROVED with a driveway), ~4.2 acres.

This and the below lot were part of a prior 2-lot subdivision
#43BSUB20 in 2020. Recorded mylar, Map Slide #576C. Access
permit 06ACC20, issued Jan 5th, 2021.

AND

05-014.100 Thomas F. Randall and Cindia Randall, 1268 New Boston
RD, (developed ~8.3 acres).

This lot 05-014.100 was part of a Boundary Line Adjustment in
2012(#7BLA12) with 1328 New Boston RD Lot 05-012.000. Map Slide
389B.

Both lots are in the Rural Residential District.

The Boundary Line Adjustment proposes to:

- A.) Transfer **0.609** acres from 05-014.120 (1268 New Boston RD)
to 05-014.100 (00 New Boston RD). See attached Boundary
Line Adjustment Plan, dated September 30, 2024
- B.) Transfer **0.05** acres from 05-014.100 (00 New Boston RD) to
05-014.120 (1268 New Boston RD). See attached Boundary Line
Adjustment Plan, dated September 30, 2024
- C.) After adjustment, Lot 05-014.120 (1268 New Boston RD)
becomes approximately 7.7 acres, and Lot 005-014.100 (00
New Boston RD) becomes approximately 4.8 acres.
- D.) The boundary line adjustment does not substantially change
Subdivision #43BSUB20.

Both lots remain above 2 acres and are therefore compliant with the
Rural Residential District Lot Size minimum, as indicated in Table 3.2
of the Norwich Zoning Regulations.

Criteria for Boundary Line Adjustment NSR §2.1 (D)

1. Boundary line adjustments shall be reviewed under the same criteria and process as a subdivision unless, after review of the boundary line adjustment plan, the Development Review Board determines that the proposed boundary line adjustment:

#	Criterion	x/✓
a.	is a minor realignment in that	
	1) area of the land to be transferred is less than half of the area of the original parcel to be reduced in size, or	✓
	2) both parcels are already developed	✓
b.	does not change substantially the nature of any previously approved subdivision	✓
c.	does not result in the creation of any new lots	✓
d.	will not impair access to any parcel	✓
e.	will not impact adversely any valuable natural resource or result in fragmentation of agricultural or conservation lands	✓
f.	will not create a nonconforming lot or nonconforming structure, or increase the degree of nonconformity of a preexisting nonconforming lot or structure	✓

#2BLA25

TOWN OF NORWICH, VERMONT
APPLICATION FOR ZONING PERMIT

Owner(s): Erik Randall
Mail Address: 1268 New Boston Road Town Norwich ST VT Zip 05055
Day Phone: 802-356-9187 Eve Phone: Email: ERandall@summitwg.com

Applicant (If Different):
Mail Address: Town ST Zip
Day Phone: Eve Phone: Email:

Description of Proposed Development: Boundary line adjustment between Lot 05-014-120 and Lot 05-014-100, changing the size of Lot 05-014-120 from 8.3 acres to 7.7 acres and Lot 05-014-100 from 4.2 acres to 4.8 acres.
Zoning District: RR VR I VR II VB C/I AQ
Street Address: New Boston Road Tax Map Lot # 05 - 014-120 Lot Size: 8.3

Building Setbacks- Road Right-of-way: NA Right Boundary: NA Left NA Rear NA
Size of Building(s)/Additions: Structure A: Width NA Length NA Height NA
Structure B: Width NA Length NA Height NA Area: Footprint of Structure A NA
Additional Footprint of Structure B (if any) NA Total NA # of Parking Spaces NA
Estimated Date of Completion: NA Estimated Value \$ NA # of Bedrooms NA

Please Attach: Site Plan with building locations, well & septic locations, roads, driveways, and streams. Drawing of footprint of new construction and outlines of additional floors. Elevation Drawing of multi-story buildings.

The undersigned hereby agrees that the proposed development shall be built in accordance with the foregoing statements, attached plans, and in accordance with the zoning and subdivision regulations of the Town of Norwich, and certifies that the above is true, correct, and complete. The owner consents to inspections of the real estate that is the subject of the application by the Zoning Administrator at reasonable times.

Signature of Landowner (or Authorized Agent) Erik Randall Date 1-7-2025

Table with 3 columns: Zoning Office Checklist, Additional Permits Required, Fees, Action, Dates. Includes items like Flood Hazard Area, Wetlands, Subdivision, Conditional Use, Base Fee, Sq. Ft. x, # of Lots, Recording, Other, Total, Date Paid, To Finance, Variance, PRD, Driveway Access, Wastewater, Received, Complete, Granted, Refused, Posted at Site, Appeal By, Effective, Expires.

Signature of Zoning Administrator Date
Application/Permit # 2BLA25


Norwich Development Review Board
Attn: Steven True
300 Main Street, 3rd Floor
Norwich, VT 05055

RE: Boundary Line Adjustment for Lots 05-014-120 and 05-014-100

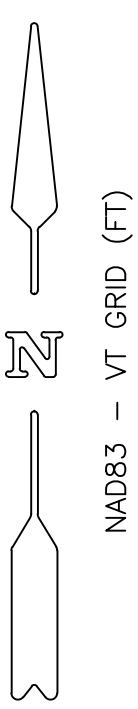
Ladies and Gentlemen:

This application is to adjust the boundary line from the previously subdivided land on New Boston Road to match the desires of Cindia Randall and her vision of how the lots flow.

Cindia grew up at 1268 New Boston Road and has an image in her head of what should have been retained by 1268 during the subdivision. All parties agree with the adjustment.

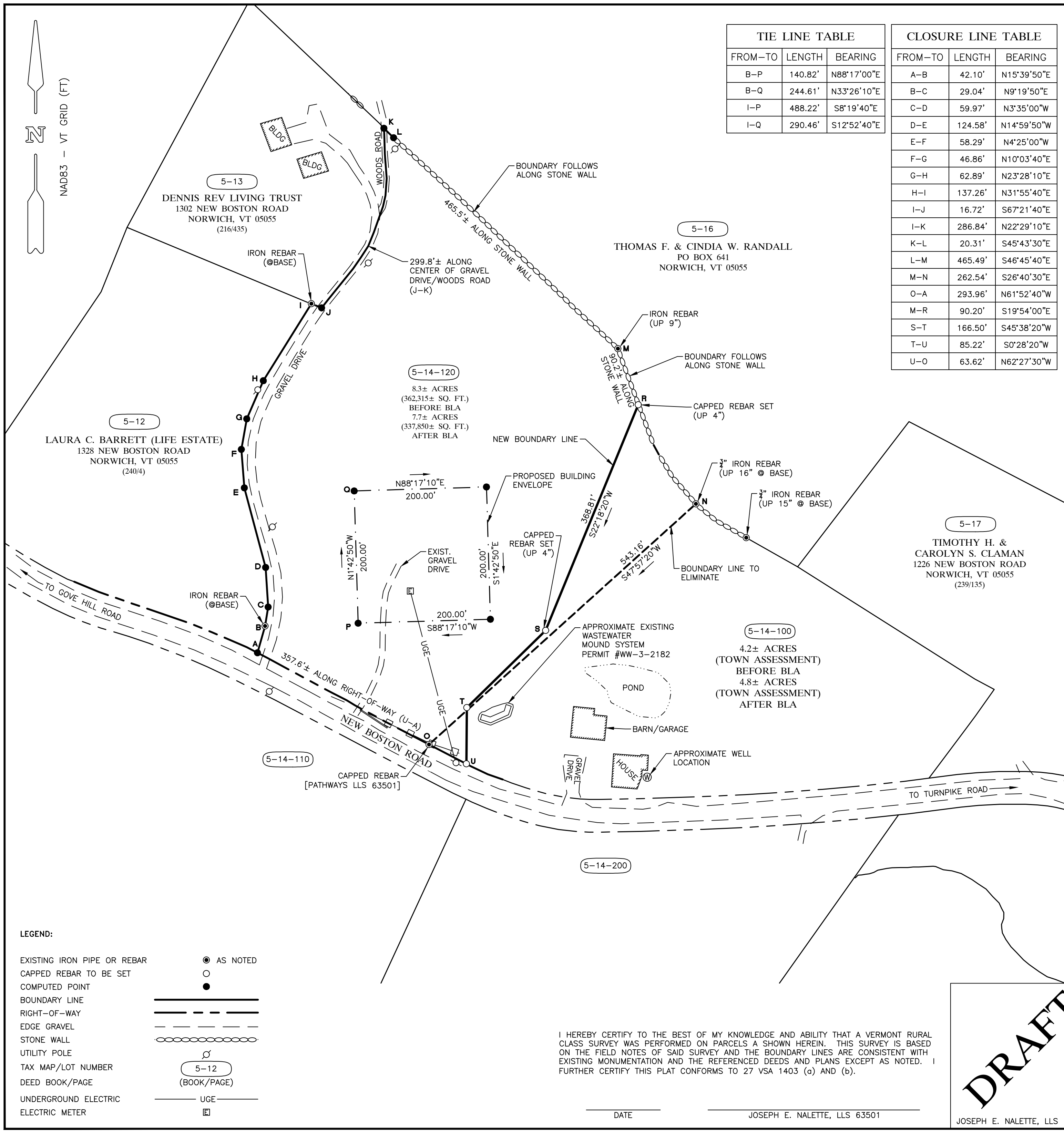
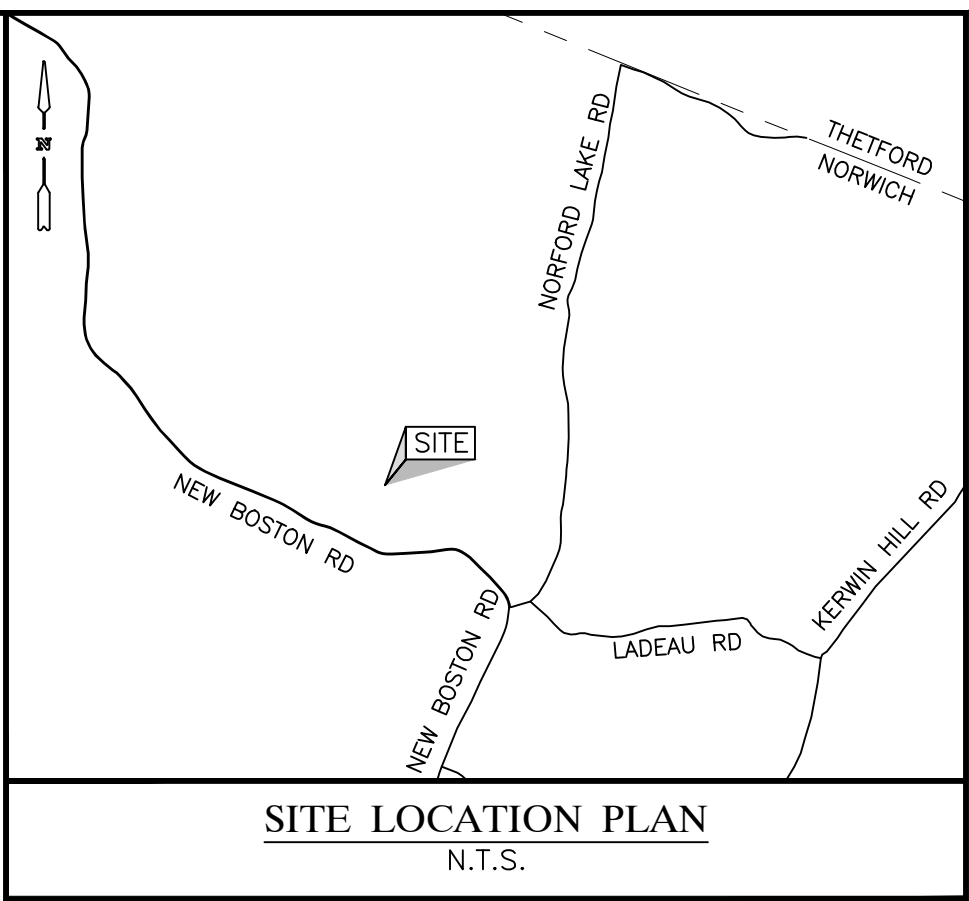
 1-7-2025
Erik Randall
Landowner

 1-7-2025
Cindia Randall
Landowner



TIE LINE TABLE		
FROM-TO	LENGTH	BEARING
B-P	140.82'	N88°17'00"E
B-Q	244.61'	N33°26'10"E
I-P	488.22'	S8°19'40"E
I-Q	290.46'	S12°52'40"E

CLOSURE LINE TABLE		
FROM-TO	LENGTH	BEARING
A-B	42.10'	N15°39'50"E
B-C	29.04'	N9°19'50"E
C-D	59.97'	N3°35'00"W
D-E	124.58'	N14°59'50"W
E-F	58.29'	N4°25'00"W
F-G	46.86'	N10°03'40"E
G-H	62.89'	N2°28'10"E
H-I	137.26'	N31°55'40"E
I-J	16.72'	S67°21'40"E
I-K	286.84'	N22°29'10"E
K-L	20.31'	S45°43'30"E
L-M	465.49'	S46°45'40"E
M-N	262.54'	S26°40'30"E
O-A	293.96'	N61°52'40"W
M-R	90.20'	S19°54'00"E
S-T	166.50'	S45°38'20"W
T-U	85.22'	S0°28'20"W
U-O	63.62'	N62°27'30"W



- PLANS OF REFERENCE:**
- REFERENCE IS MADE TO THE FOLLOWING PLANS RECORDED AT THE TOWN OF NORWICH LAND RECORDS:
 - PLAN SLIDE 389-B, ENTITLED "BOUNDARY LINE ADJUSTMENT PLAT FOR THOMAS AND ANN CHRISTIANO," PREPARED BY ROCKWOOD LAND SERVICES, LLC, PROJECT NO. 1125, DATED FEBRUARY 23, 2012.
 - PLAN ENTITLED "SUBDIVISION PLAN FOR ERIK H. RANDALL," PREPARED BY PATHWAYS CONSULTING, LLC, PROJECT NO. 13068, DATED OCTOBER 22, 2020, LAST UPDATED 1-12-2021.
 - REFERENCE IS MADE TO THE FOLLOWING PLANS NOT RECORDED AT THE TOWN OF NORWICH LAND RECORDS:
 - PLAN ENTITLED "SUBDIVISION OF KEITH & BEVERLY WILLIAMS," PREPARED BY T&M SURVEYS, INC., PROJECT NO. 148283, DATED MAY 1983.

- GENERAL SURVEY NOTES:**
- HORIZONTAL DATUM: VT STATE PLANE GRID NAD83 (SURVEY FEET) FROM GPS OBSERVATION.
 - PATHWAYS CONSULTING, LLC COLLECTED DATA FOR THIS PLAN IN AUGUST-SEPTEMBER 2020 AND SEPTEMBER 2024.

PARCEL TABLE		
PARCEL	AREA	DEVELOPMENT RIGHTS
LOT 5-14-100	±4.8 ACRES	1
LOT 5-14-120	±7.7 ACRE	1

NO FURTHER SUBDIVISION OF LOT 5-14-100.00 OR PARCEL "A" IS POSSIBLE UNDER NSR §3.2(b)(5) AS AMENDED JULY 1, 2009

RECORD OWNER: THOMAS F. & CINDIA W. RANDALL
 MAP 5, LOT 14-100
 1268 NEW BOSTON ROAD
 NORWICH, VT 05055

DEED REFERENCE: BOOK 210, PAGE 289

RECORD OWNER: ERIC H. RANDALL
 MAP 5, LOT 14-120
 NEW BOSTON ROAD
 NORWICH, VT 05055

DEED REFERENCE: BOOK 236, PAGE 86

Date	Revision	By

BOUNDARY LINE ADJUSTMENT PLAN FOR
**ERIK H. RANDALL AND
 THOMAS F. & CINDIA W. RANDALL**
 NEW BOSTON ROAD, NORWICH, VERMONT

SEPTEMBER 30, 2024 SCALE: 1"= 100' PROJ. NO. 13068

PATHWAYS CONSULTING, LLC
 240 MECHANIC STREET, SUITE 100
 LEBANON, NEW HAMPSHIRE 03766

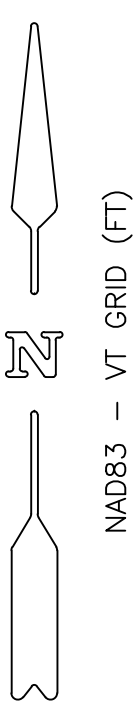
DRAFT

JOSEPH E. NALETTE, LLS 63501

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT A VERMONT RURAL CLASS SURVEY WAS PERFORMED ON PARCELS A SHOWN HEREIN. THIS SURVEY IS BASED ON THE FIELD NOTES OF SAID SURVEY AND THE BOUNDARY LINES ARE CONSISTENT WITH EXISTING MONUMENTATION AND THE REFERENCED DEEDS AND PLANS EXCEPT AS NOTED. I FURTHER CERTIFY THIS PLAT CONFORMS TO 27 VSA 1403 (a) AND (b).

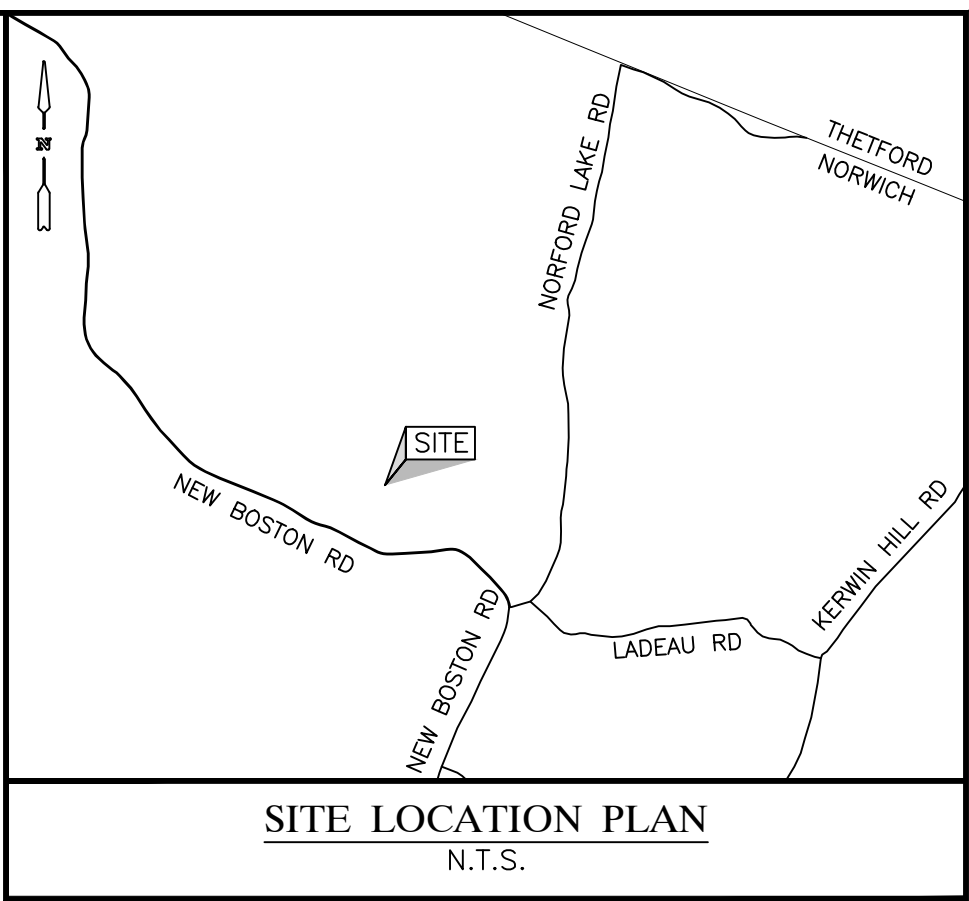
DATE _____ JOSEPH E. NALETTE, LLS 63501

- LEGEND:**
- EXISTING IRON PIPE OR REBAR AS NOTED
 - CAPPED REBAR TO BE SET
 - COMPUTED POINT
 - BOUNDARY LINE
 - RIGHT-OF-WAY
 - EDGE GRAVEL
 - STONE WALL
 - UTILITY POLE
 - TAX MAP/LOT NUMBER 5-12
 - DEED BOOK/PAGE (BOOK/PAGE)
 - UNDERGROUND ELECTRIC UGE
 - ELECTRIC METER



TIE LINE TABLE		
FROM-TO	LENGTH	BEARING
B-P	140.82'	N88°17'00"E
B-Q	244.61'	N33°26'10"E
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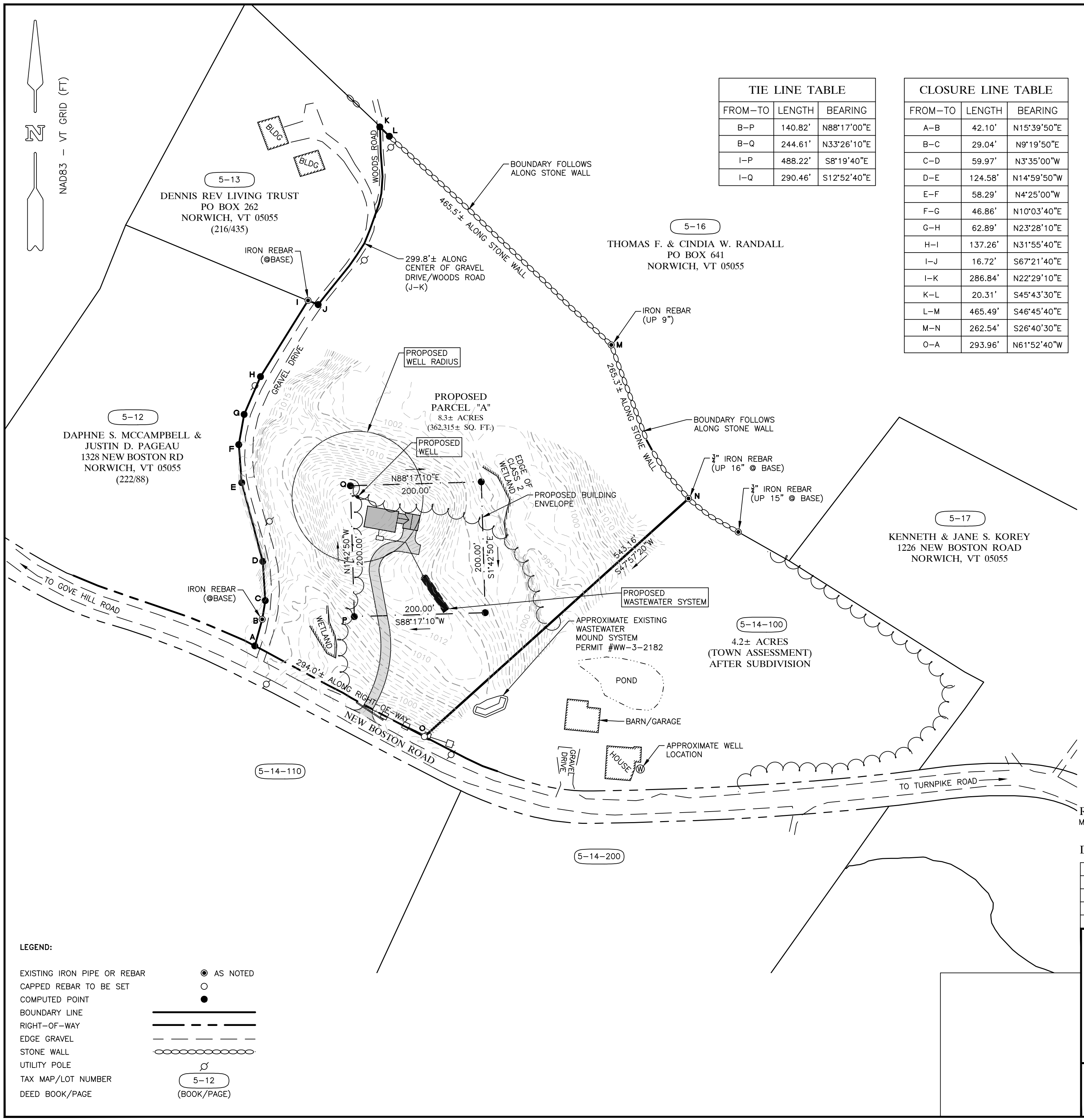


- PLANS OF REFERENCE:**
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 - A. PLAN SLIDE 389-B, ENTITLED "BOUNDARY LINE ADJUSTMENT PLAT FOR THOMAS AND ANN CHRISTIANO," PREPARED BY ROCKWOOD LAND SERVICES, LLC, PROJECT NO. 1125, DATED FEBRUARY 23, 2012.
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 - A. PLAN ENTITLED "SUBDIVISION OF KEITH & BEVERLY WILLIAMS," PREPARED BY T&M SURVEYS, INC., PROJECT NO. 148283, DATED MAY 1983.

- GENERAL SURVEY NOTES:**
- HORIZONTAL DATUM: VT STATE PLANE GRID NAD83 (SURVEY FEET) FROM GPS OBSERVATION.
 - PATHWAYS CONSULTING, LLC COLLECTED DATA FOR THIS PLAN IN AUGUST-SEPTEMBER 2020.

PARCEL TABLE		
PARCEL	AREA	DEVELOPMENT RIGHTS
LOT 5-14-100	±4.2 ACRES	1
PARCEL "A"	±8.3 ACRE	1

NO FURTHER SUBDIVISION OF LOT 5-14-100.00 OR PARCEL "A" IS POSSIBLE UNDER NSR §3.2(b)(5) AS AMENDED JULY 1, 2009



RECORD OWNER: THOMAS F. & CINDIA W. RANDALL
 MAP 5, LOT 14
 PO BOX 641
 NORWICH, VT 05055

DEED REFERENCE: BOOK 210, PAGE 289

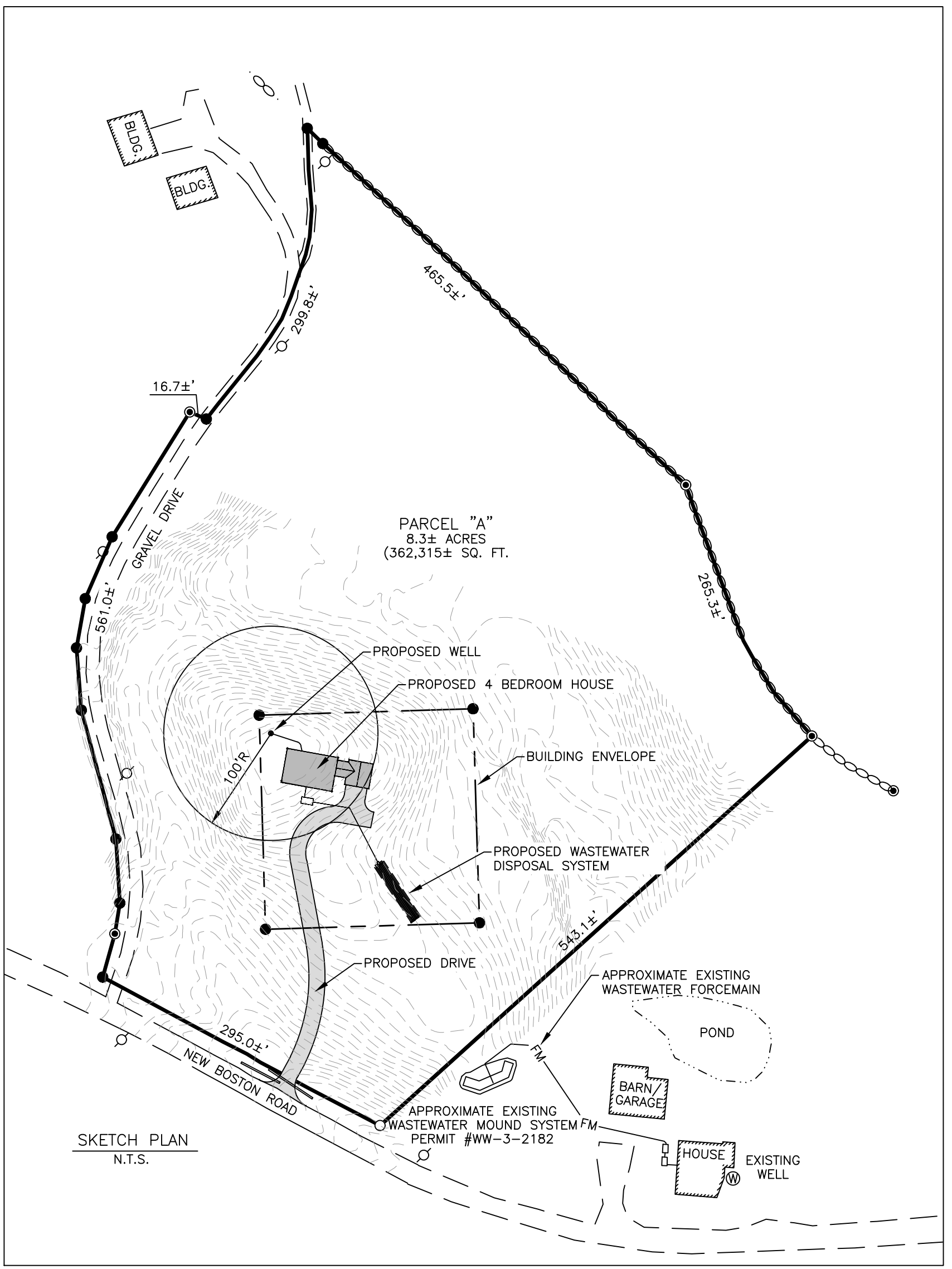
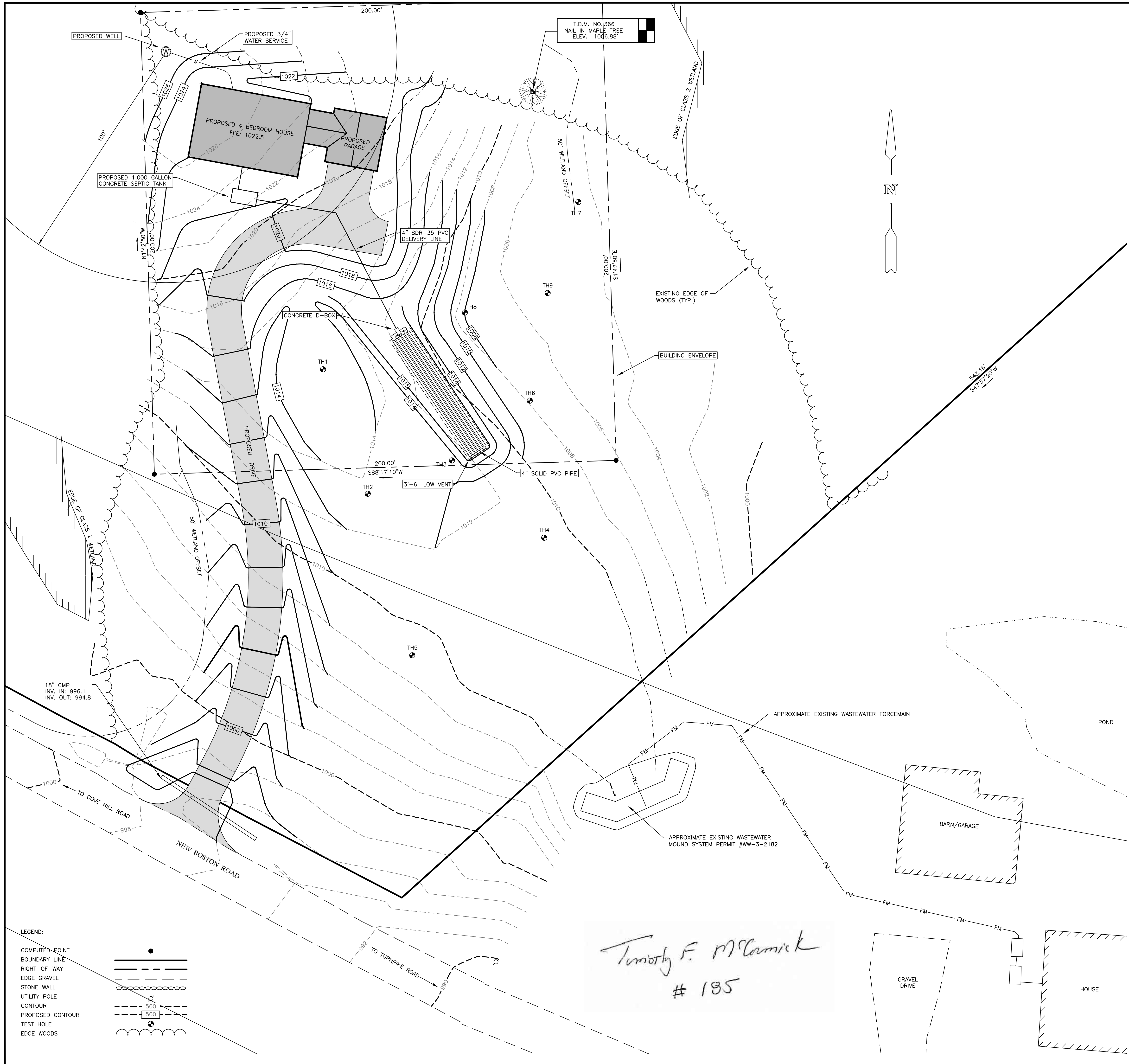
Date	Revision	By

LIDAR WITH SUBDIVISION PLAN FOR
ERIK RANDALL
 1268 NEW BOSTON ROAD, NORWICH, VERMONT

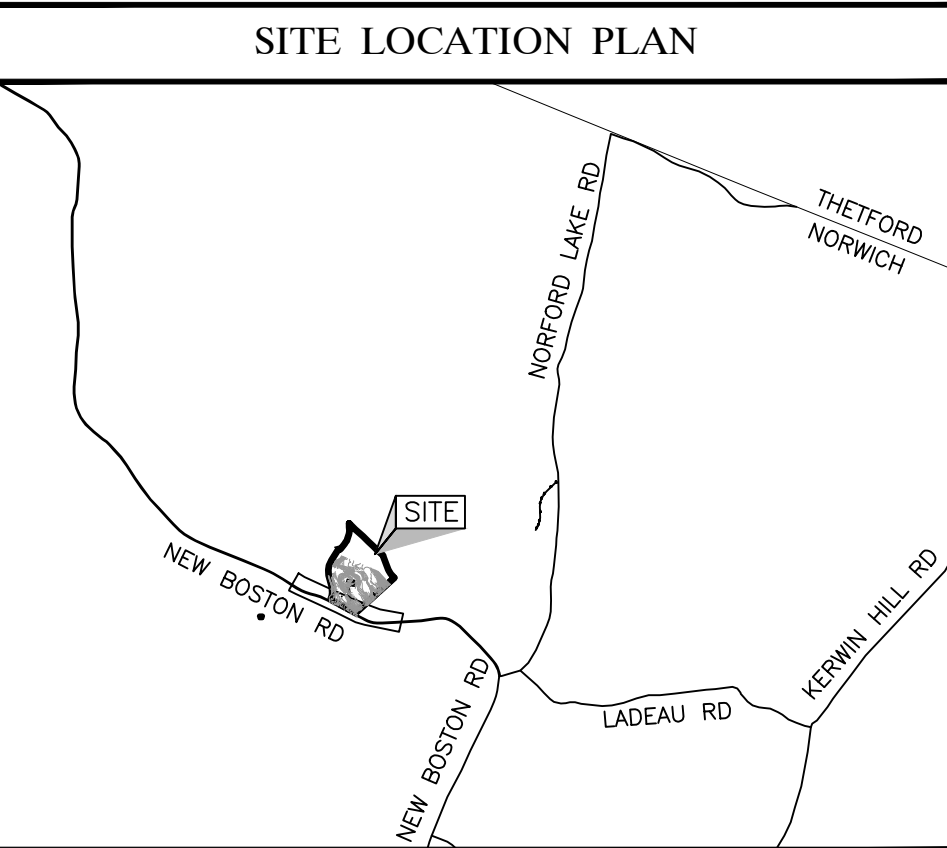
24-04-29 SCALE: 1"= 100' PROJ. NO. 13068

PATHWAYS CONSULTING, LLC
 240 MECHANIC STREET, SUITE 100
 LEBANON, NEW HAMPSHIRE 03766

- LEGEND:**
- EXISTING IRON PIPE OR REBAR:
 - CAPPED REBAR TO BE SET:
 - COMPUTED POINT:
 - BOUNDARY LINE:
 - RIGHT-OF-WAY:
 - EDGE GRAVEL:
 - STONE WALL:
 - UTILITY POLE:
 - TAX MAP/LOT NUMBER:
 - DEED BOOK/PAGE:



- GENERAL SURVEY NOTES:**
- HORIZONTAL DATUM: VT STATE PLANE GRID NAD83 (SURVEY FEET) FROM GPS OBSERVATION.
 - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988 (NAV88) FROM GPS OBSERVATION.
 - UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT WARRANTED TO BE EXACT OR COMPLETE AND ARE TO BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR SITE MODIFICATIONS.
 - PATHWAYS CONSULTING, LLC COLLECTED DATA FOR THIS PLAN IN AUGUST 2020.



VERMONT
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Drinking Water & Groundwater Protection Division
THIS IS SUBJECT TO PROVISIONS OR CONDITIONS LISTED IN PERMIT
Permit #: **WW-3-2182-1**
Date: 11/17/20

LEGEND:

COMPUTED POINT	•
BOUNDARY LINE	—
RIGHT-OF-WAY	—
EDGE GRAVEL	—
STONE WALL	—
UTILITY POLE	—
CONTOUR	—
PROPOSED CONTOUR	—
TEST HOLE	—
EDGE WOODS	—

Timothy F. McCormick
195

REV. NO.	DATE	DESCRIPTION	MADE BY	CHKD BY	APP'D BY
WASTEWATER DISPOSAL SYSTEM DESIGN FOR ERIK RANDALL 1268 NEW BOSTON ROAD — NORWICH, VERMONT					1
PATHWAYS CONSULTING, LLC 240 MECHANIC STREET, SUITE 100 LEBANON, NEW HAMPSHIRE 03766 (603) 448-2200					SHEET: 1 OF 2 SCALE: AS SHOWN DES. BY: TFM DRAWN BY: PAB CHKD. BY: TFM DATE: 10/26/20 PROJ. NO. 13068

GENERAL NOTES

1. THE SYSTEM MUST BE INSTALLED IN STRICT ACCORD WITH THIS APPROVED PLAN. ANY CHANGES MUST BE APPROVED IN WRITING BY THE ENGINEER BEFORE ANY CONSTRUCTION BEGINS.
2. THE SYSTEM IS DESIGNED TO ACCOMMODATE ONLY SANITARY WASTEWATER ASSOCIATED WITH NORMAL DOMESTIC USE.
3. SUBDIVISION APPROVAL NO.: N/A.
4. THE TEST HOLE LOCATIONS ARE APPROXIMATE.
5. THERE ARE NO KNOWN SURFACE WATER OR SEASONAL WET AREAS WITHIN 50' OF THE PROPOSED WASTEWATER DISPOSAL SYSTEM.
6. ANY DISCREPANCIES IN THE APPROVED PLANS AND SITE CONDITIONS MUST BE REPORTED TO THE ENGINEER BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
7. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE WASTEWATER SYSTEM UNLESS SPECIFIC PROVISIONS ARE PROPOSED ON THIS PLAN TO SUPPORT THE WEIGHT.
8. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE SEPTIC TANK FOR PUMPING AND OTHER MAINTENANCE.
9. THE DESIGN LOADING FOR ALL CONCRETE STRUCTURES SHALL BE H10.
10. THE OWNER SHOULD PUMP OUT SEPTIC TANK SOLIDS EVERY TWO YEARS OR LESS, AS NEEDED.

DESIGN NOTES

1. DESIGNER: TIMOTHY F. MCCORMICK PERMIT NO. 185.
2. DEPTH OF SEASONAL HIGH WATER MARK (MOTTLING LINE): 30"
3. DEPTH OF GROUND WATER: NONE
4. DEPTH OF LEDGE OR IMPERMEABLE SUBSTRATUM ENCOUNTERED: 72+
5. DESIGN INTENT: BED BOTTOM TO BE SET
() NO MORE THAN 12" BELOW ORIGINAL GROUND AT HIGH SIDE ELEV. 1012.0
(X) NO LESS THAN 12" ABOVE ORIGINAL GROUND AT HIGH SIDE ELEV. 1013.0
6. DISPOSAL AREA SLOPE: EXISTING 14% MAXIMUM 20%
7. ESTIMATED SEWAGE LOADING: 4 BEDROOMS (3 @ 140 GPD/BEDROOM) + (1 @ 70 GPD) = 490 GPD
8. LEACH FIELD AREA REQUIRED: 490 GPD ÷ 1.0 GAL/SQ. FT./DAY = 490 SQ. FT.
9. LEACH FIELD AREA PROVIDED: 10.5' X 60' = 630 SQ. FT.
10. DESIGN SEWAGE LOADING PER PRESBY ENVIRO-SEPTIC 490 GPD REQUIRES 280 LINEAR FT.
11. TOTAL LEACH FIELD AREA : 280 LINEAR FT. REQUIRED
60' X 6' = 360 LINEAR FT. ENVIRO-SEPTIC PROVIDED

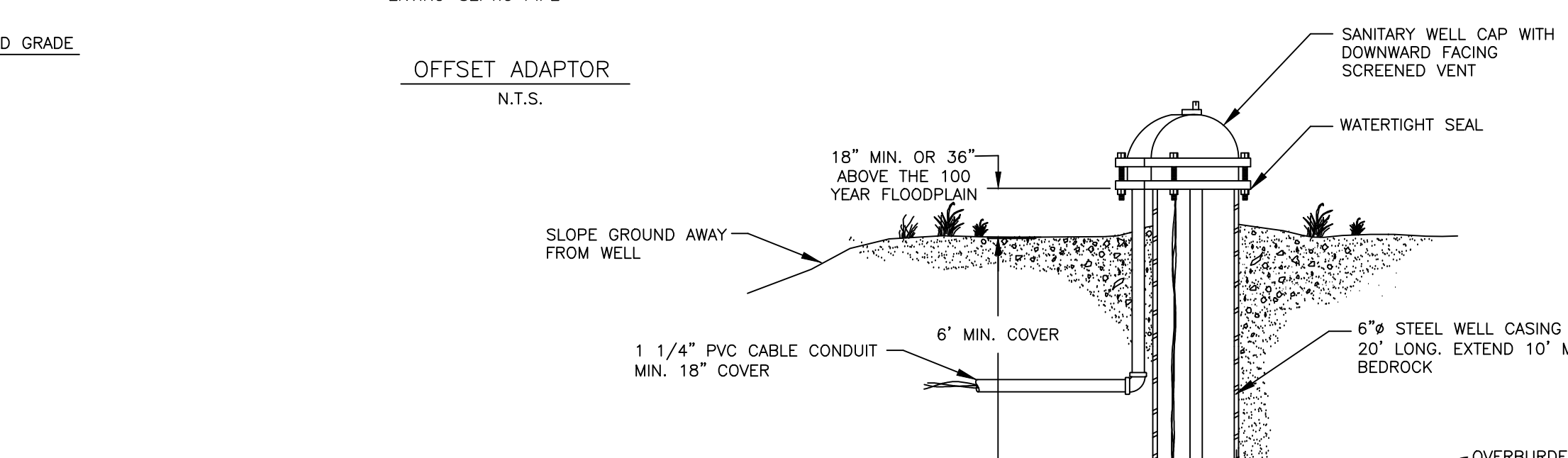
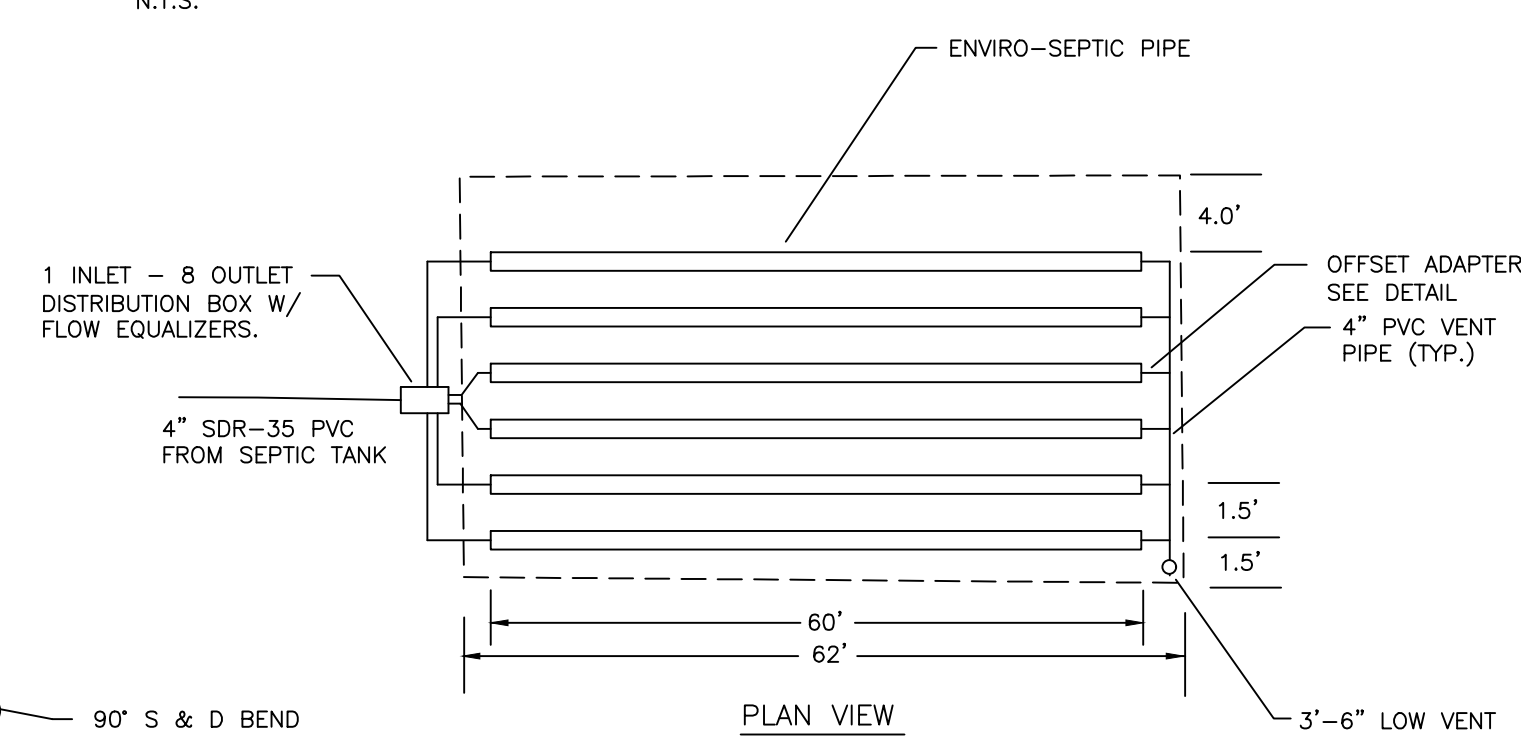
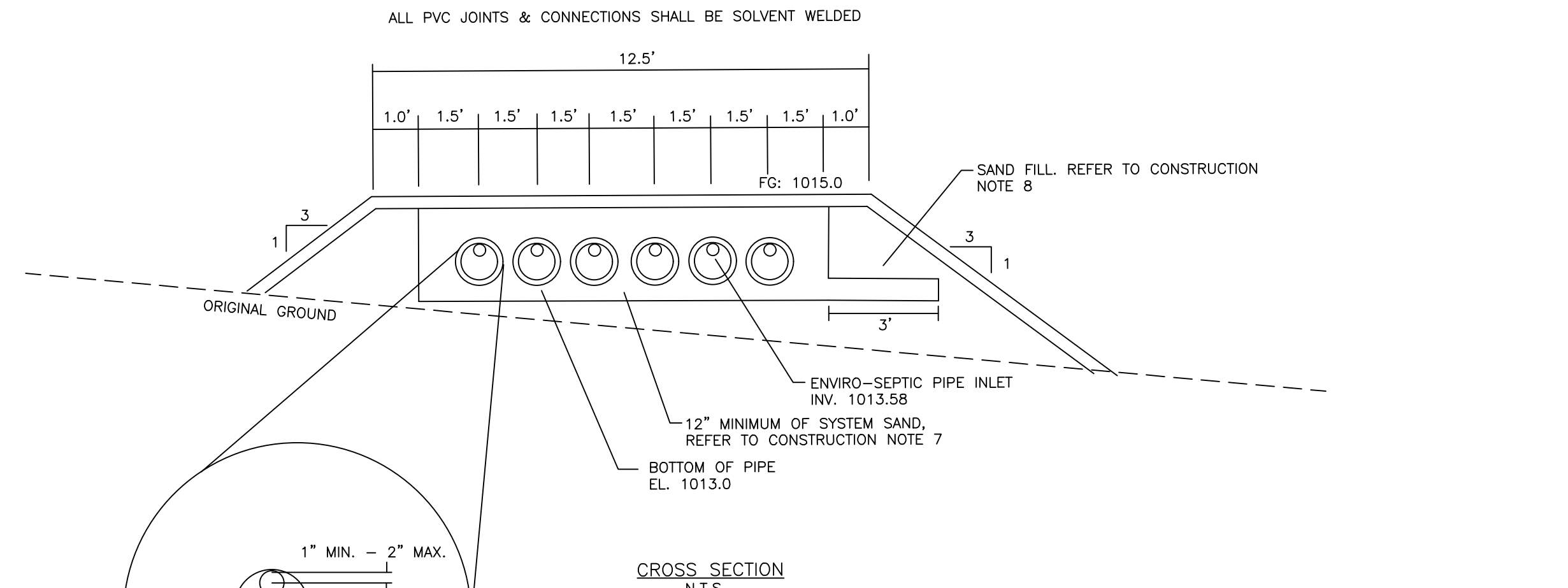
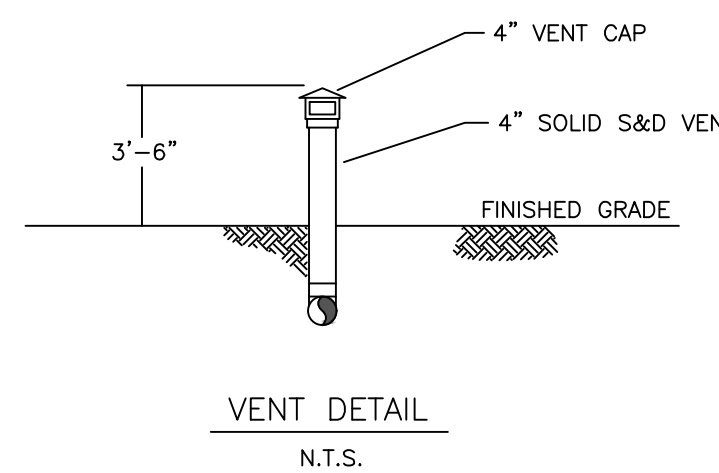
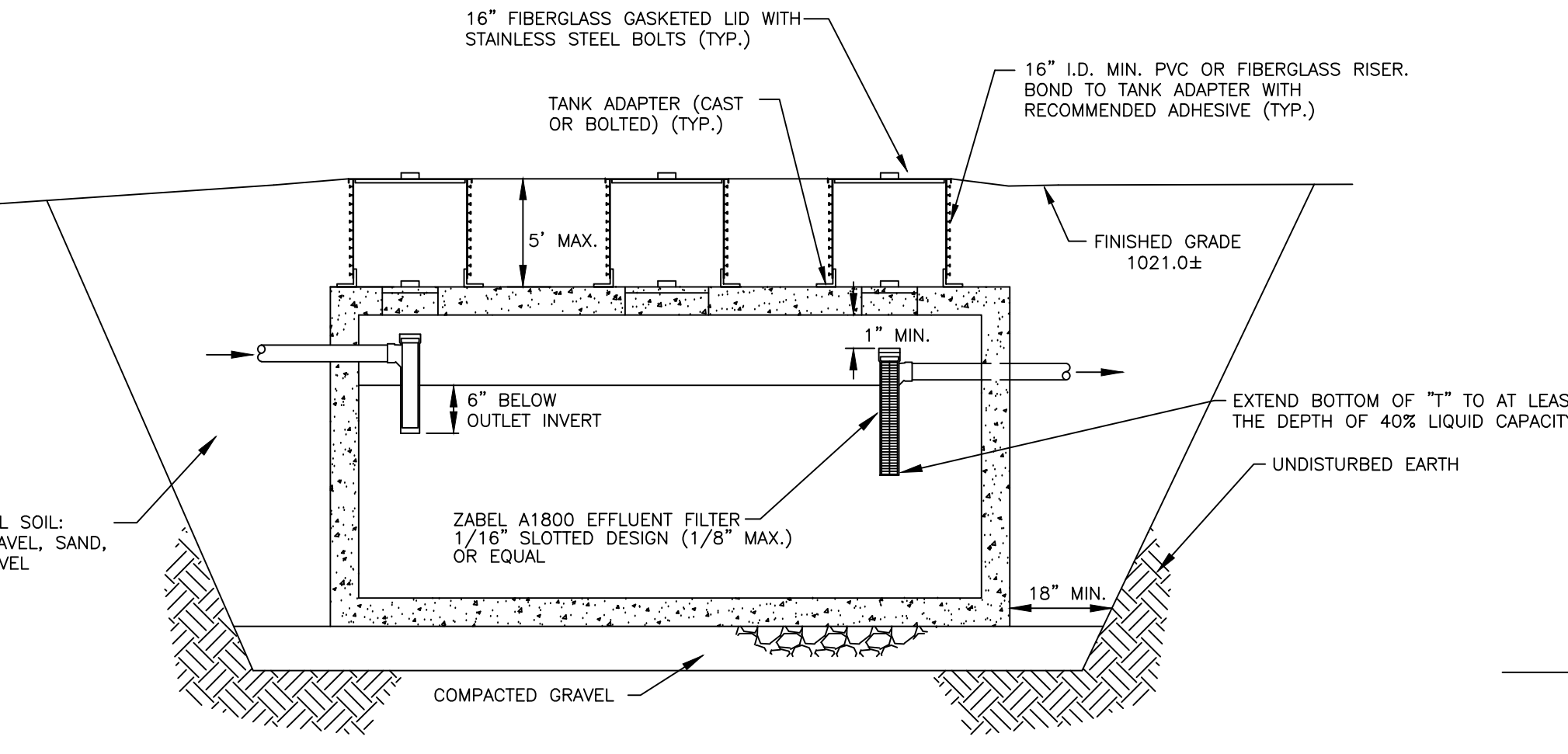
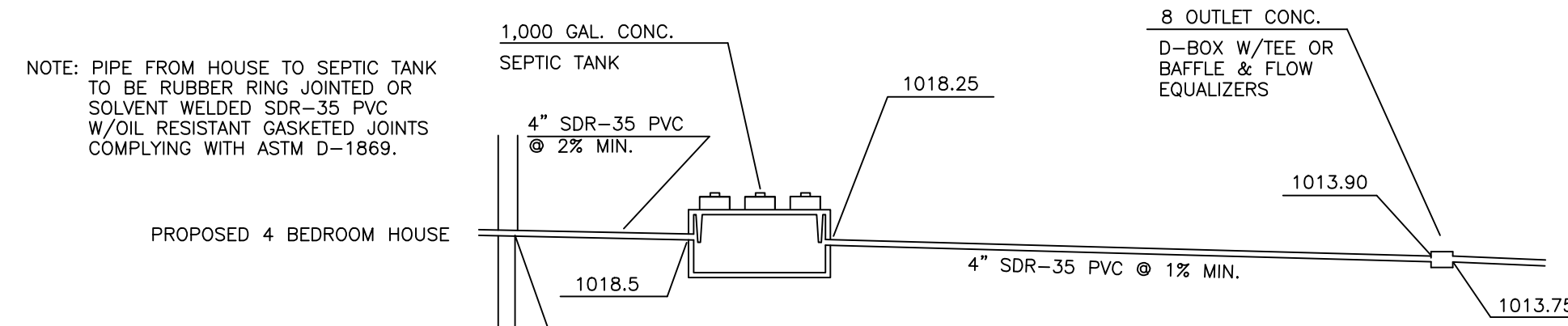
CONSTRUCTION NOTES

1. NO CONSTRUCTION SHALL COMMENCE PRIOR TO COORDINATION OF WORK SCHEDULE WITH THE ENGINEER. THE ENGINEER SHALL STAKE THE WASTEWATER DISPOSAL SYSTEM PRIOR TO CONSTRUCTION.
2. A. ALL VEGETATION SHALL BE CLOSELY CUT AND REMOVED FROM THE GROUND SURFACE IN THE AREA THAT IS TO BE USED FOR THE PLACEMENT OF THE FILL MATERIAL. TREE STUMPS SHOULD BE CUT FLUSH WITH THE SURFACE OF THE GROUND AND ROOTS SHOULD NOT BE PULLED. THE AREA SHALL THEN BE PLOWED TO A DEPTH OF SEVEN (7) TO EIGHT (8) INCHES, PARALLEL TO THE SURFACE CONTOUR WITH THE PLOW THROWING THE SOIL UPSLOPE TO PROVIDE A SUITABLE INTERFACE BETWEEN THE MOUND SAND AND THE NATIVE MATERIAL. PLACE FENCING AROUND THIS AREA TO PREVENT VEHICLES AND EQUIPMENT FROM ENTERING THE PLOWED AREA, UNLESS THE FILL MATERIAL IS PLACED WITHIN 24 HOURS OF THE PLOWING. IF THE SITE CANNOT BE PLOWED, A BACKHOE BUCKET FITTED WITH CHISEL TEETH MAY BE USED TO "TILL" THE SITE BY CREATING FURROWS THAT ARE PARALLEL TO SURFACE CONTOURS. THE CONTRACTOR AND/OR THE OWNER SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS IN ADVANCE OF THE PLOWING, SO THAT THE PLOWED AREA CAN BE OBSERVED.
B. THE AREA SURROUNDING THE MOUND WASTEWATER DISPOSAL SYSTEM SHALL BE GRADED TO PROVIDE DIVERSION OF SURFACE WATER RUN OFF.
C. THE SAND FILL SHALL BE PLACED IN A TIMELY FASHION AFTER PREPARATION OF THE SOIL INTERFACE.
D. THE ENGINEER SHALL OBSERVE THE TESTING AND DIRECT THE TESTING OF THE DISTRIBUTION SYSTEM PRIOR TO BACKFILLING. THE DISTRIBUTION SYSTEM SHALL BE TESTED WITH CLEAN WATER TO ASSURE EVEN DISTRIBUTION.
E. THE DISTRIBUTION SYSTEM SHALL BE COVERED WITH FILTER FABRIC FOLLOWING SUCCESSFUL COMPLETION OF THE PRESSURE TEST.
F. THE CONTRACTOR SHALL CROWN THE ENTIRE MOUND SYSTEM WITH A COVER OF SOIL LESS PERMEABLE THAN THE MOUND FILL, COVERING WITH 8"-10" ON THE SIDES OF THE MOUND. NATIVE SOIL FROM THE SITE IS NORMALLY SUITABLE FOR COVER MATERIAL.
G. THE MOUND SHALL BE COVERED WITH 2" TO 4" OF TOPSOIL NATIVE TO THE SITE, SEEDED AND MULCHED TO ASSURE STABILITY OF THE INSTALLATION. THE VEGETATION ON THE MOUND SHALL BE MAINTAINED AND SHOULD BE MOWED AT LEAST ANNUALLY.
H. EROSION CONTROL SHALL BE INSTALLED AT THE TOE OF SLOPES AND IN THE DISTURBED AREAS. PRIOR TO COMMENCING CONSTRUCTION EROSION CONTROL MEASURES SHALL INCLUDE SILT FENCING OR HAY BALES. THE EROSION CONTROL DEVICES MUST BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH ADEQUATE VEGETATION.
3. TANK DESIGN SPECIFICATIONS:
(a) MINIMUM CONCRETE STRENGTH-5000 PSI AT 28 DAYS
(b) STEEL REINFORCEMENT-ASTM A-615-79, GRADE 60, 1" MIN. COVER
(c) EARTH COVER 0' TO 5'
(d) WATER TABLE-5' BELOW FINISHED GRADE
(e) CONSTRUCTION JOINT-SEALED WITH 1" DIAMETER BUTYL RUBBER OR EQUIVALENT. SEAMLESS TANKS ARE PREFERRED. IF FIBERGLASS TANKS ARE USED, DOCUMENTATION FROM THE MANUFACTURER IS REQUIRED TO SUBSTANTIATE THE STRUCTURAL SOUNDNESS OF THE TANK.
(f) DESIGN LOAD-AASHTO H10.
4. TANK EXCAVATION: THE CONTRACTOR SHALL PROVIDE AN EXCAVATION FREE OF OBSTRUCTIONS FOR A MINIMUM CLEARANCE OF 18" AROUND THE OUTSIDE PERIMETER OF THE TANK(S). A MINIMUM OF 6" OF COMPACTED GRAVEL IS REQUIRED BENEATH THE TANK(S). THE GRAVEL BEDDING SHALL BE UNIFORM THICKNESS AND LEVEL. FILTER FABRIC MAY BE REQUIRED BENEATH THE TANK(S) TO ALLOW FOR PROPER SEPARATION OF BEDDING IN CONDITIONS OF HIGH GROUNDWATER OR UNSUITABLE SOILS.
5. TANK BACKFILL: THE CONTRACTOR SHALL BACKFILL AROUND THE TANK(S) WITH SUITABLE SOIL SUCH AS PEA GRAVEL, SAND, OR CLEAN GRAVEL. THE BACKFILL MATERIAL SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 12".
6. SYSTEM SAND: ALL CONFIGURATIONS OF ENVIRO-SEPTIC REQUIRE A MINIMUM OF 12" OF SYSTEM SAND SURROUNDING THE CIRCUMFERENCE OF THE PIPE, THIS SAND, TYPICALLY GRAVELLY COARSE SAND, MUST ADHERE TO THE FOLLOWING PERCENTAGE AND QUALITY RESTRICTIONS.
(A) PERCENTAGE RESTRICTIONS:
35% OR LESS OF THE TOTAL SAND MAY BE GRAVEL.
40%-90% OF THE TOTAL SAND IS TO BE COARSE AND VERY COARSE SAND
(B) GRAVEL QUALITY RESTRICTIONS:
NO GRAVEL IS TO EXCEED 3/4" IN DIAMETER.
NO GRAVEL IS SMALLER THAN 2mm/0.0787" IN DIAMETER. (IT MUST NOT PASS THROUGH A #10 SIEVE.)
(C) COARSE SAND QUALITY RESTRICTIONS:
NO COARSE SAND IS SMALLER THAN 0.5mm/0.0196" IN DIAMETER. (IT MUST NOT PASS THROUGH A #35 SIEVE.)
(D) FINES QUALITY RESTRICTIONS:
NO MORE THAN 2% OF THE TOTAL SAND MAY PASS THROUGH A #200 SIEVE.
(E) ASTM STANDARD:
C-33 (CONCRETE SAND) MEETS THE ABOVE REQUIREMENTS.
7. FILL SPECIFICATIONS: FILL MATERIAL FOR THE WASTEWATER DISPOSAL FIELD(S) SHALL BE CLEAN, MEDIUM SAND, FREE OF TOPSOIL, OR HUMUS, DREDGINGS, OR STONES GREATER THAN 6" IN ANY DIMENSION, PLACED IN 12" LAYERS AND COMPACTED, AND WITH ONE OF THE FOLLOWING SIEVE ANALYSIS:

1. SIEVE	% PASSING	2. SIEVE	% PASSING	3. SIEVE	% PASSING
NO. 10	85% - 100%	NO. 4	95% - 100%	NO. 10	85% - 100%
NO. 40	30% - 50%	NO. 8	80% - 100%	NO. 40	25% - 75%
NO. 200	0% - 10%	NO. 16	50% - 85%	NO. 60	0% - 30%
		NO. 30	25% - 60%	NO. 100	0% - 10%
		NO. 50	10% - 30%	NO. 200	0% - 5%
		NO. 100	2% - 10%		

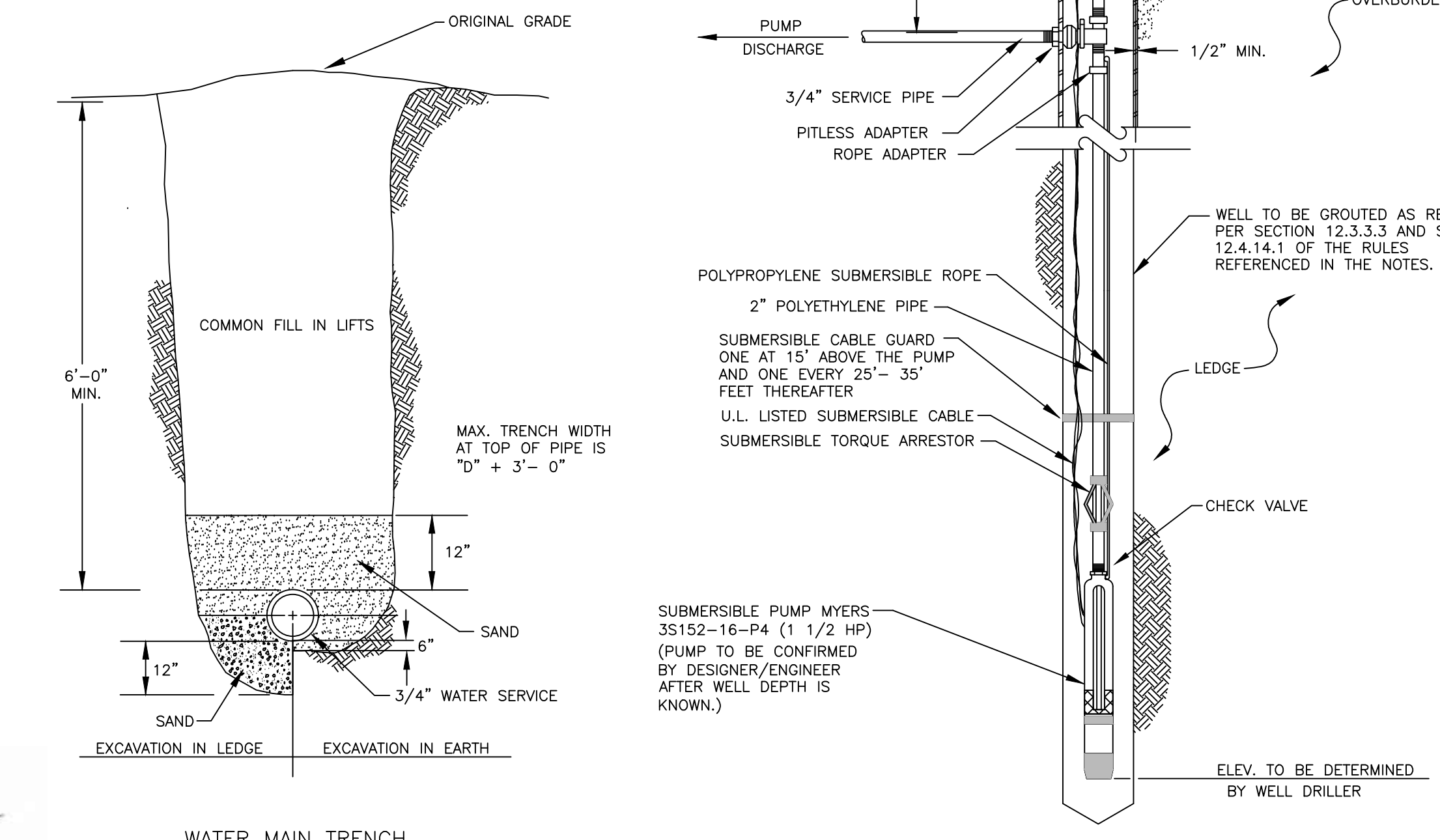
A SIEVE ANALYSIS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO THE FILL PLACEMENT.

9. FILL PLACEMENT: THE SELECTED FILL MATERIAL AROUND THE EDGE OF THE PREPARED BASAL AREA KEEP WHEELS OF TRUCK OFF PREPARED AREA. MINIMIZE TRAFFIC ON THE DOWNSLOPE SIDE OF THE MOUND. WORK FROM THE END AND UPSLOPE SIDE. MOVE THE FILL MATERIAL INTO PLACE USING TRACK-TYPE EQUIPMENT WITH A BLADE. ALWAYS KEEP A MINIMUM OF 6" OF SAND BENEATH TRACKS TO PREVENT COMPACTION AND/OR SMEARING OF THE INFILTRATIVE SURFACE.
10. ALL UNUSED KNOCK-OUTS IN THE SEPTIC TANK CHAMBER SHALL BE SEALED TO PREVENT LEAKAGE.
11. THE CONTRACTOR SHALL PERFORM SEPTIC TANK LEAKAGE TEST, WITNESSED BY THE ENGINEER, BY THE FOLLOWING METHOD:
A. EXFILTRATION TEST: LOWER GROUNDWATER TABLE AFTER PLUGGING INLET/OUTLET PIPES AND MAINTAIN DURING TEST. PROVIDE MEANS TO MONITOR GROUNDWATER TABLE. FILL STRUCTURE TO TOP WITH WATER. ALLOW 30 MIN. - 1 HOUR FOR THE ABSORPTION OF THE WATER. REFILL TO TOP. DETERMINE VOLUME OF LEAKAGE IN AN 8 HR. (MIN.) TEST PERIOD AND CALCULATE RATE. ALLOWABLE LEAKAGE RATE: NONE
LOSS IN EXCESS OF ALLOWABLE LEAKAGE REQUIRES REPAIR OF LEAKS.



ERIK RANDALL (PROJECT NO. 13068)
TEST HOLE INFORMATION (EVALUATED ON 07/20/20)

TEST HOLE #	DEPTH	SOIL DESCRIPTION
TEST HOLE #1	0-8"	DARK BROWN 10YR 3/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	8-20"	DARK YELLOWISH BROWN 10YR 4/4; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	20-72"	DARK GRAYISH BROWN 2.5Y 4/2; VERY FINE SANDY LOAM; FIRM; MASSIVE REDOXIMORPHIC FEATURES AT 20 INCHES NO LEDGE TO DEPTH
TEST HOLE #2	0-6"	DARK BROWN 10YR 3/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	6-20"	DARK YELLOWISH BROWN 10YR 4/4; VERY FINE SANDY LOAM; FIRM; PLATY
	20-72"	DARK GRAYISH BROWN 2.5Y 4/2; VERY FINE SANDY LOAM; FIRM; PLATY REDOXIMORPHIC FEATURES AT 20 INCHES NO LEDGE TO DEPTH
TEST HOLE #3	0-7"	DARK BROWN 10YR 3/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	7-20"	DARK YELLOWISH BROWN 10YR 4/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	20-30"	OLIVE BROWN 2.5Y 4/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	30-72"	DARK GRAYISH BROWN 2.5Y 4/2; VERY FINE SANDY LOAM; FIRM; PLATY REDOXIMORPHIC FEATURES AT 30 INCHES NO LEDGE TO DEPTH
TEST HOLE #4	0-7"	VERY DARK GRAYISH BROWN 10YR 3/2; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	7-30"	DARK YELLOWISH BROWN 10YR 4/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	30-72"	DARK GRAYISH BROWN 2.5Y 4/2; VERY FINE SANDY LOAM WITH LENSES OF LOAMY SAND; FRIABLE; MASSIVE REDOXIMORPHIC FEATURES AT 30 INCHES NO LEDGE TO DEPTH
TEST HOLE #5	0-4"	VERY DARK GRAYISH BROWN 10YR 3/2; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	4-48"	DARK GRAYISH BROWN 10YR 4/2; SILT LOAM WITH THIN LAYERS OF VERY FINE SAND; FIRM; PLATY (NOTE: APPEARS THAT THE UPPER SOIL HORIZONS WERE REMOVED IN THIS AREA) REDOXIMORPHIC FEATURES AT 4 INCHES NO LEDGE TO DEPTH
TEST HOLE #6	0-7"	DARK BROWN 10YR 3/3; GRAVELLY FINE SANDY LOAM; FRIABLE; GRANULAR
	7-30"	DARK YELLOWISH BROWN 10YR 4/3; GRAVELLY FINE SANDY LOAM; FRIABLE; GRANULAR
	30-48"	OLIVE BROWN 2.5Y 4/3; OLIVE BROWN SANDY LOAM; FRIABLE; MASSIVE
	48-84"	DARK GRAYISH BROWN 2.5Y 4/2; SILT LOAM; FIRM; PLATY REDOXIMORPHIC FEATURES AT 48 INCHES NO LEDGE TO DEPTH
TEST HOLE #7	0-36"	APPROXIMATELY 36 INCHES OF FILL MATERIAL
	36-40"	DARK GRAYISH BROWN 2.5Y 4/2; SILT LOAM; FRIABLE; FIRM IN PLACES; MASSIVE
	40-48"	DARK YELLOWISH BROWN 10YR 4/4; SILT LOAM; FRIABLE; SUBANGULAR BLOCKY
	48-84"	DARK GRAYISH BROWN 2.5Y 4/2; SILT LOAM; FIRM; MASSIVE REDOXIMORPHIC FEATURES AT 48 INCHES NO LEDGE TO DEPTH MOIST AT 84 INCHES
TEST HOLE #8	0-12"	DARK BROWN 10YR 3/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR; (SOME FILL MATERIAL MIXED WITH TOPSOIL)
	12-24"	DARK YELLOWISH BROWN 10YR 4/3; VERY FINE SANDY LOAM; FRIABLE; SUBANGULAR BLOCKY
	24-36"	OLIVE BROWN 2.5Y 4/3; OLIVE BROWN; FINE SANDY LOAM; FRIABLE; MASSIVE
	36-72"	DARK GRAYISH BROWN 2.5Y 4/2; SILT LOAM WITH SOME LAYERS AND POCKETS OF FINE SANDS; FIRM; MASSIVE REDOXIMORPHIC FEATURES AT 36 INCHES NO LEDGE TO DEPTH
TEST HOLE #9	0-12"	DARK BROWN 10YR 3/3; FRIABLE; VERY FINE SANDY LOAM; GRANULAR
	12-33"	STRONG BROWN 7.5YR 4/3 TO DARK YELLOWISH BROWN 10YR 4/3; VERY FINE SANDY LOAM; FRIABLE; GRANULAR
	33-72"	DARK GRAYISH BROWN 2.5Y 4/2; VERY FINE SANDY LOAM; FIRM; MASSIVE REDOXIMORPHIC FEATURES AT 33 INCHES NO LEDGE TO DEPTH



Timothy F. McCormick
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SCALE: N.T.S.
DESIGNED BY: TFM
DRAWN BY: PAB
CHECKED BY: TFM
DATE: 10/26/20
PROJ. NO. 13068 SHEET 2 OF 2

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Living Water & Groundwater Protection Division
THIS IS SUBJECT TO PROVISIONS OR CONDITIONS LISTED IN PERMIT
Permit #: WW-3-2182-1
Date: 11/17/20

PATHWAYS CONSULTING, LLC
240 MECHANIC STREET, SUITE 100
LEBANON, NEW HAMPSHIRE 03766
(603) 448-2200

WASTEWATER DISPOSAL SYSTEM & WATER DETAILS FOR
ERIK RANDALL
BEAVER MEADOW ROAD - NORWICH, VERMONT