

# GRAZ Engineering, L.L.C.

323 West Lake Road • Fitzwilliam, NH 03447 • Telephone (603) 585-6959 • Fax (603) 585-6960

## Transmittal

**To:** Conservation Commission  
**Company:** Town of Leicester  
**Address:** 3 Washburn Square  
**City/State:** Leicester, MA 01524  
**Subject:** 555 Pine Street – DEP File No. 197-0615  
Request for Final COC  
**Date:** August 10, 2020  
**Transmitted:** ☐ Mail ☒ Email ☐ Hand

<input checked="" type="checkbox"/> For Your Approval	<input checked="" type="checkbox"/> Which You requested
<input checked="" type="checkbox"/> For Your Review	<input type="checkbox"/> Approved
<input type="checkbox"/> For Your Signature	<input type="checkbox"/> Approved As Noted
<input checked="" type="checkbox"/> For Your Information	<input type="checkbox"/> Revise And Resubmit
<input type="checkbox"/> For Your Files	<input type="checkbox"/> Not Approved

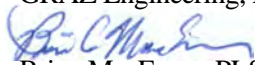
1	copy	WPA Form 8A, Request for Final Certificate of Compliance
1	copy	Engineer's Affidavit of Site Work Completion dated August 10, 2020
1	copy	Asbuilt Plan for 555 Pine Street dated December 12/9/19 & revised thru 1/7/20
1	copy	Site Photos dated 7/28/20
1	copy	WPA Form 8B, Draft Certificate of Compliance
	copy	

**Comments:** Enclosed is the final Request for Final Certificate of Completion (COC) for 555 Pine Street. This request for work completed under the Order of Conditions (OOC) as issued by the Town of Leicester Conservation Commission on November 20, 2017. (DEP #195-0615).

I trust that the Commission will find that the site work has been completed in substantial compliance with the above noted OOC and that the attached documentation fulfills the final requirements for the project so that the Commission may issue a final COC at their next regularly scheduled meeting.

Should you have any questions or require any additional information, please call my cell at 508-769-9084.

Respectfully yours,  
GRAZ Engineering, L.L.C.



Brian MacEwen, PLS, BSCE  
Project Manager

cc: Stephen Terrien, Owner



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands  
**WPA Form 8A – Request for Certificate of Compliance**  
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

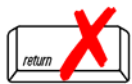
DEP File Number:

197-0615  
Provided by DEP

## A. Project Information

**Important:**

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Upon completion of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has been satisfactorily completed.

1. This request is being made by:

Stephen Terrien

Name

555 Pine Street

Mailing Address

Leicester

City/Town

MA

State

01524

Zip Code

617-799-3213

Phone Number

2. This request is in reference to work regulated by a final Order of Conditions issued to:

Matt Schold (Schold Development, LLC)

Applicant

11/20/2017

Dated

197-0615

DEP File Number

3. The project site is located at:

555 Pine Street

Street Address

41

Assessors Map/Plat Number

Leicester

City/Town

C2.1

Parcel/Lot Number

4. The final Order of Conditions was recorded at the Registry of Deeds for:

Matt Schold (Schold Development, LLC)

Property Owner (if different)

Worcester

County

58083

Book

85

Page

Certificate (if registered land)

5. This request is for certification that (check one):

☒ the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.

☐ the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed (use additional paper if necessary).

All of the site development work for the project has been completed.

☐ the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the work regulated by it was never started.



**Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

**WPA Form 8A – Request for Certificate of Compliance**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

**195-0615**

Provided by DEP

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**A. Project Information (cont.)**

6. Did the Order of Conditions for this project, or the portion of the project subject to this request, contain an approval of any plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor?

☒ Yes

If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.

☐ No

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**B. Submittal Requirements**

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>).

# AFFIDAVIT OF SITE WORK COMPLETION

**ASSESSORS MAP 41, PARCEL C2.1  
555 PINE STREET, LEICESTER  
DEP FILE NO. 197-0615**

TO THE LEICESTER CONSERVATION COMMISSION:

*We certify that based on our field inspections and surveys of the site in November 2019 - January 2020 and our subsequent field inspection on July 28, 2020; that to the best of our knowledge, information, and belief that the site work depicted on the "Interim Asbuilt Site Plan for Conservation COC", dated December 9, 2019 and revised through January 7, 2020 and attached herewith as prepared by GRAZ Engineering, LLC was completed in substantial conformance with the approved plans entitled "Notice Of Intent Plans, 555 Pine Street, Assessors Map 41, Parcel C2.1", dated November 1, 2017, and in accordance with the Order of Conditions as issued by the Town of Leicester Conservation Commission on November 20, 2017.*

*All of the site development work for the project has been completed and is completely stabilized as established lawn areas, sand beach area, or mulched side slopes accordingly.*

## ENGINEER


Paul F. Grasewicz      PE #35306  
ENGINEER      MASS. REG. #

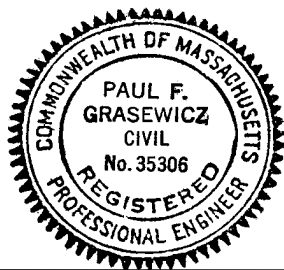
GRAZ Engineering, L.L.C.  
323 West Lake Road  
Fitzwilliam, NH 03447  
ADDRESS

## SURVEYOR

Brian C. MacEwen      PLS #37736  
SURVEYOR

GRAZ Engineering, LLC  
323 West Lake Road  
Fitzwilliam, NH 03447  
ADDRESS

 08/10/2020  
SIGNATURE      DATE



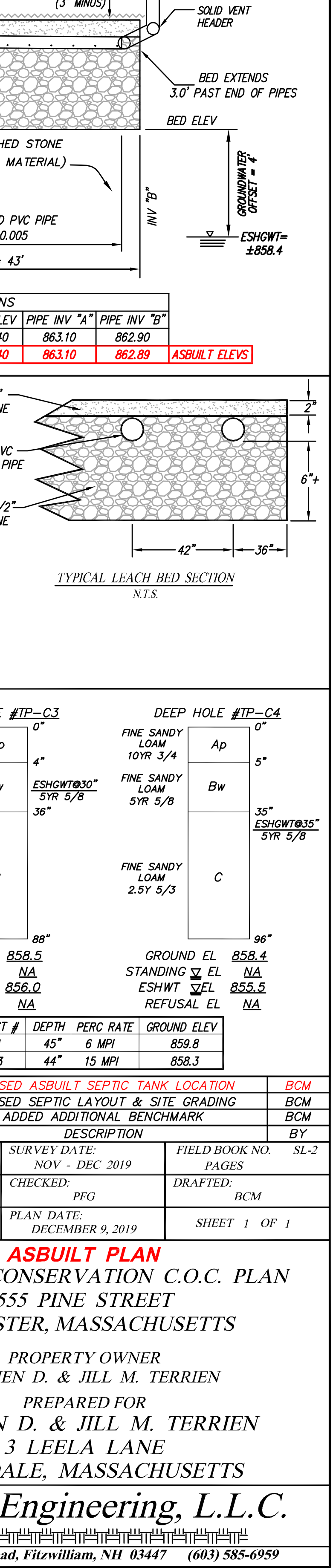
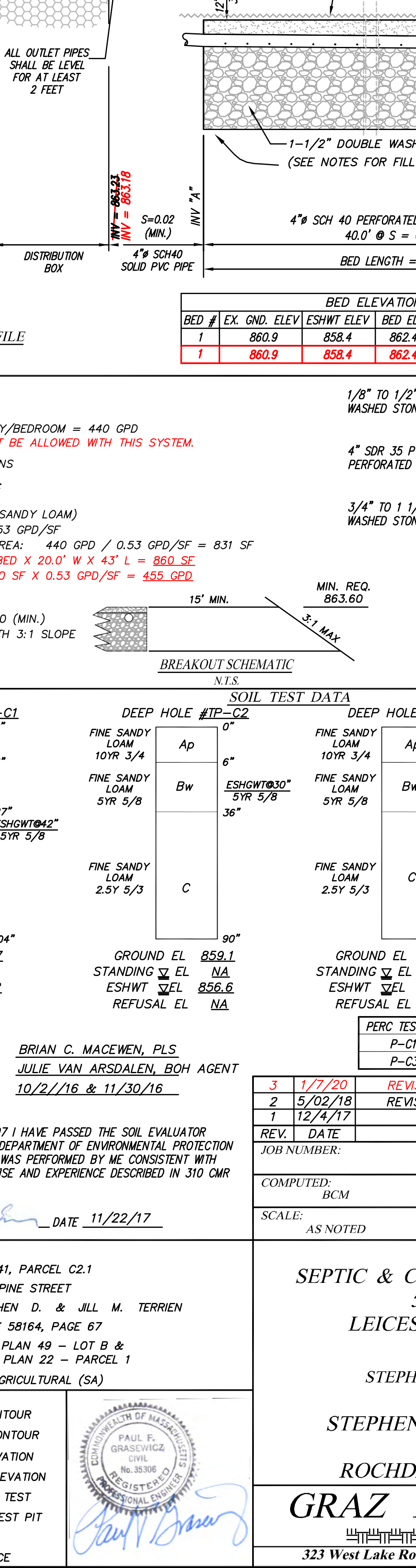
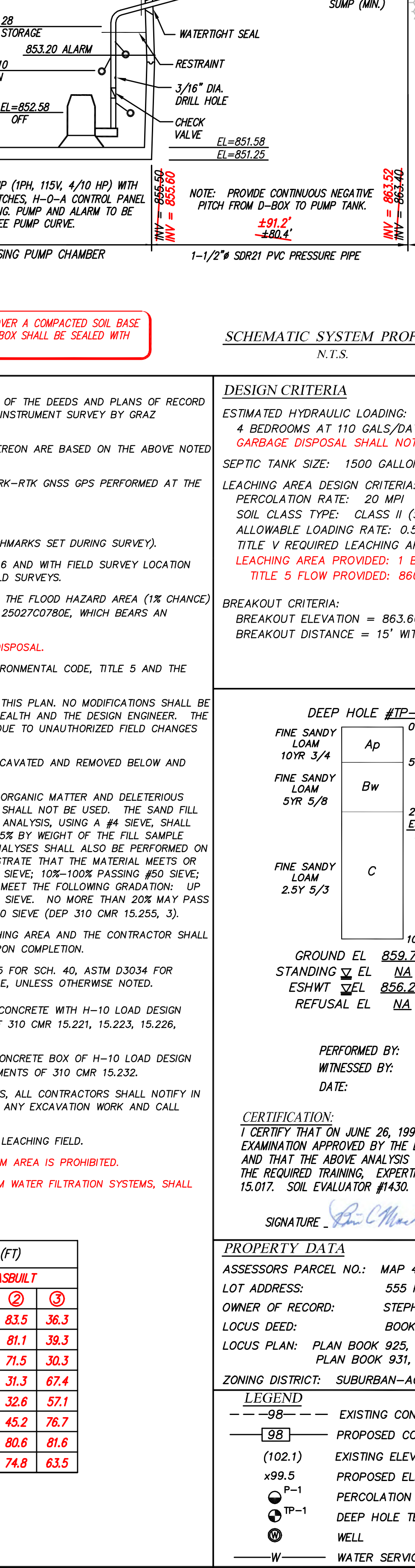
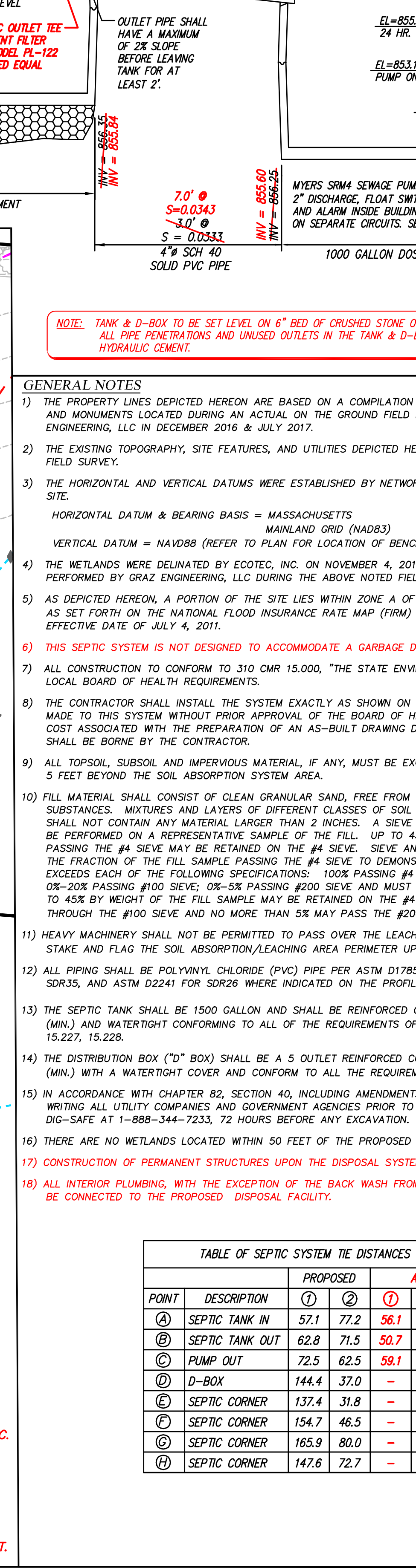
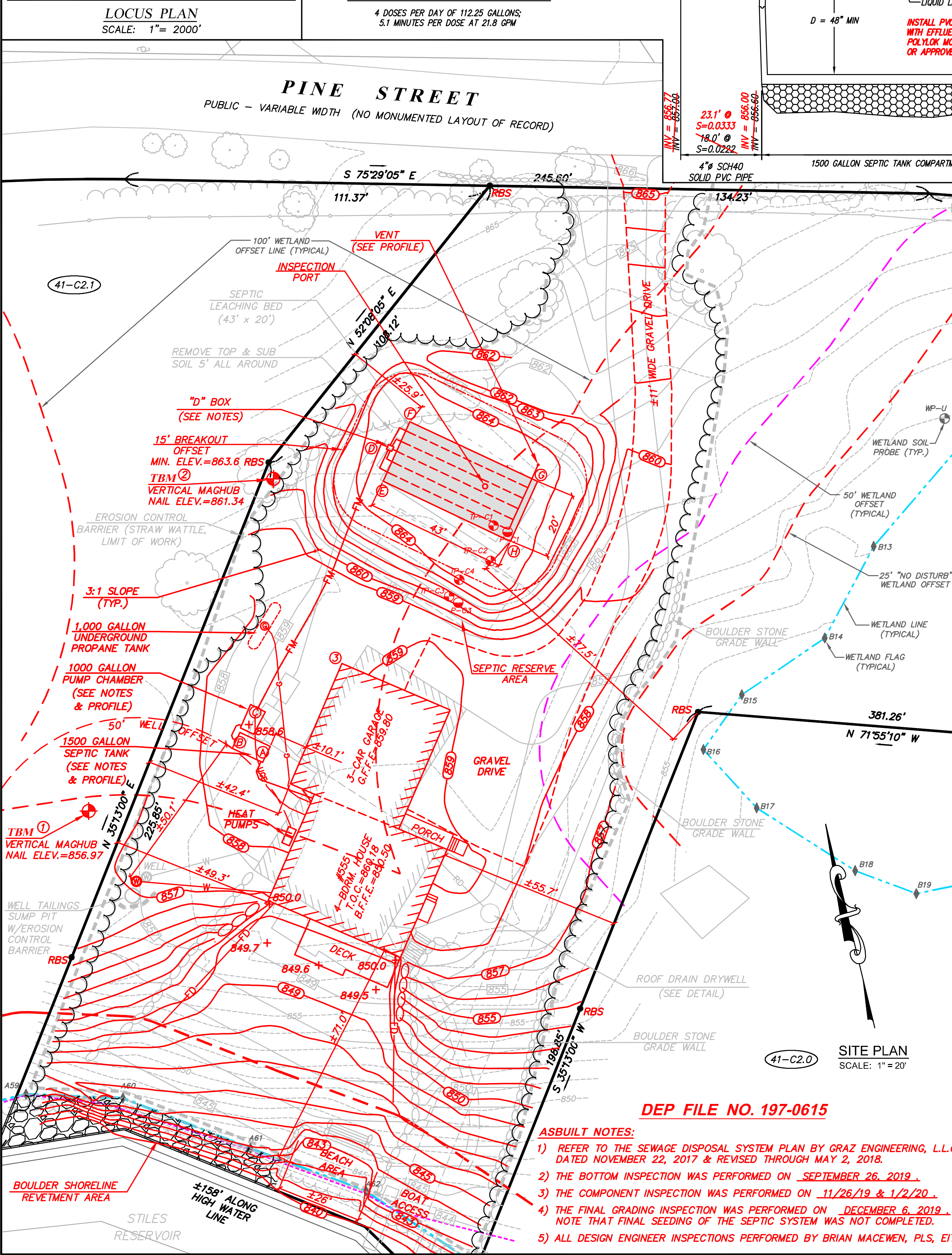
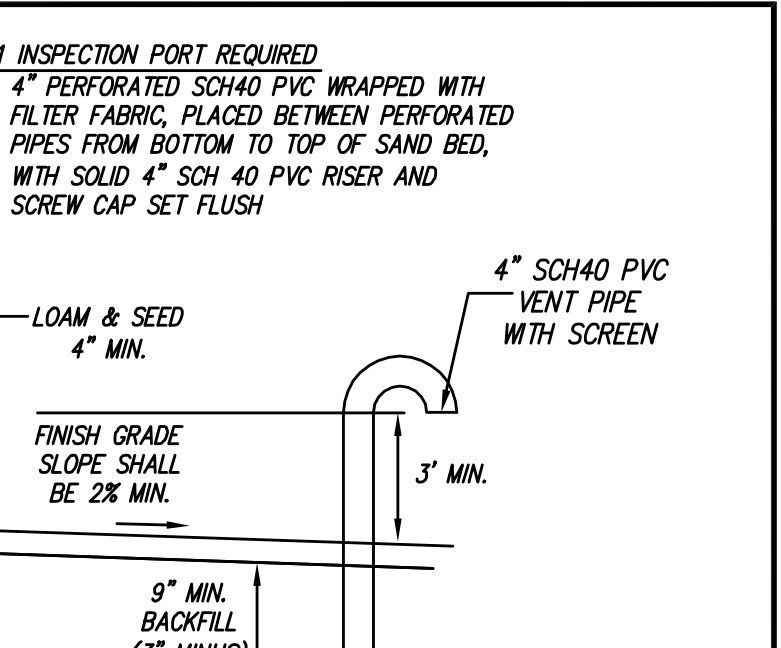
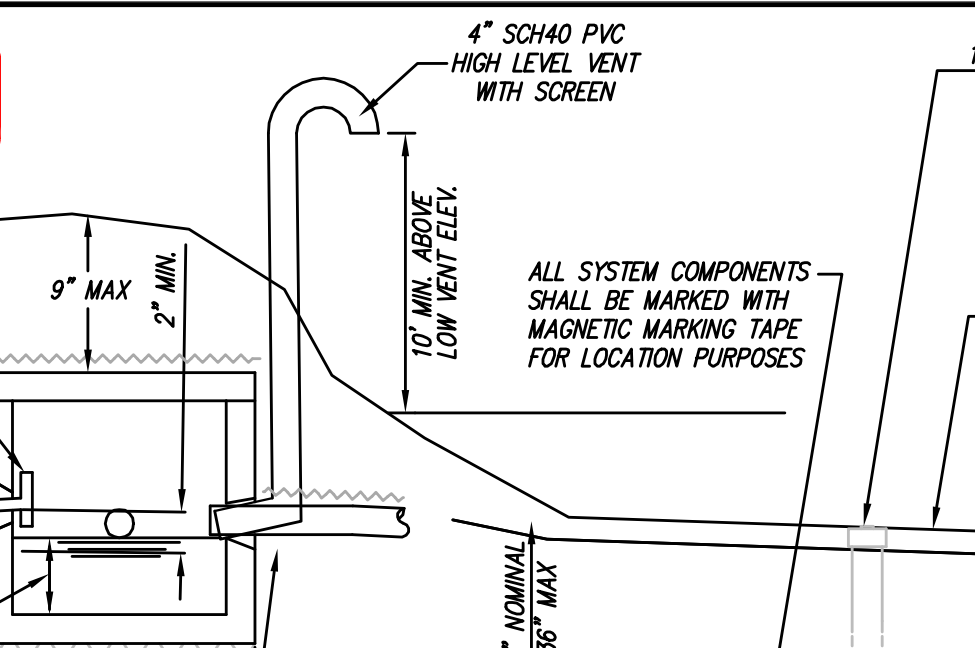
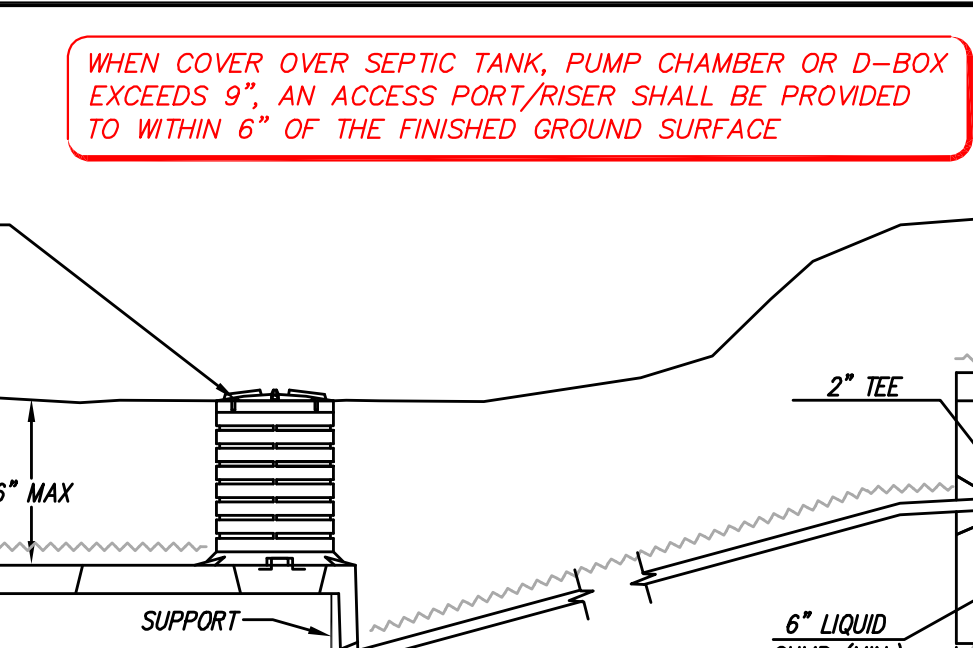
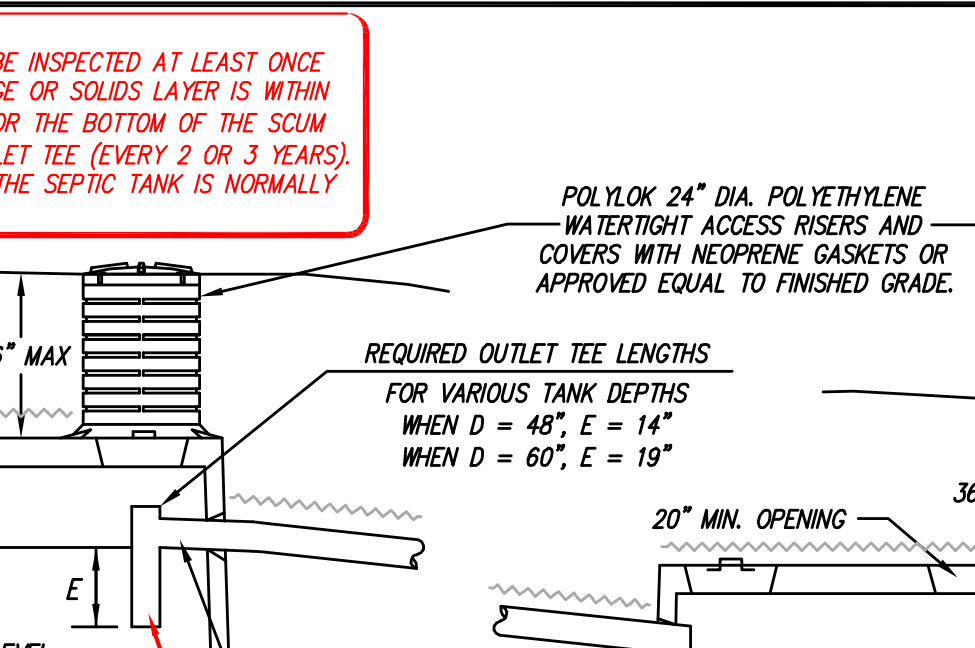
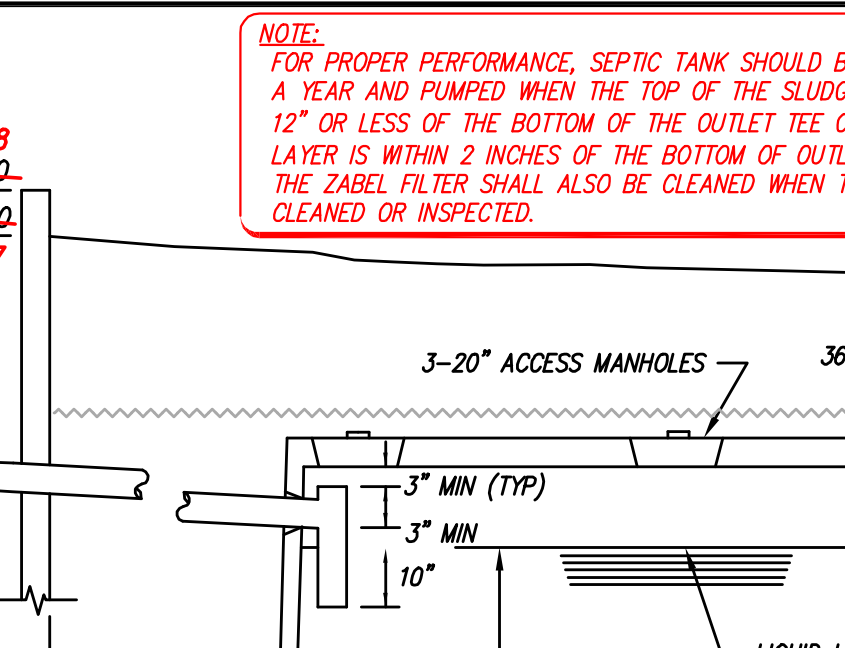
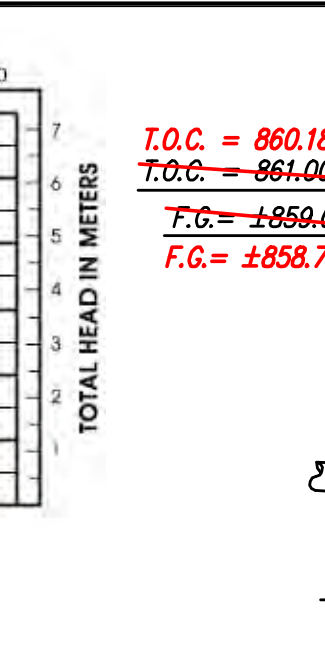
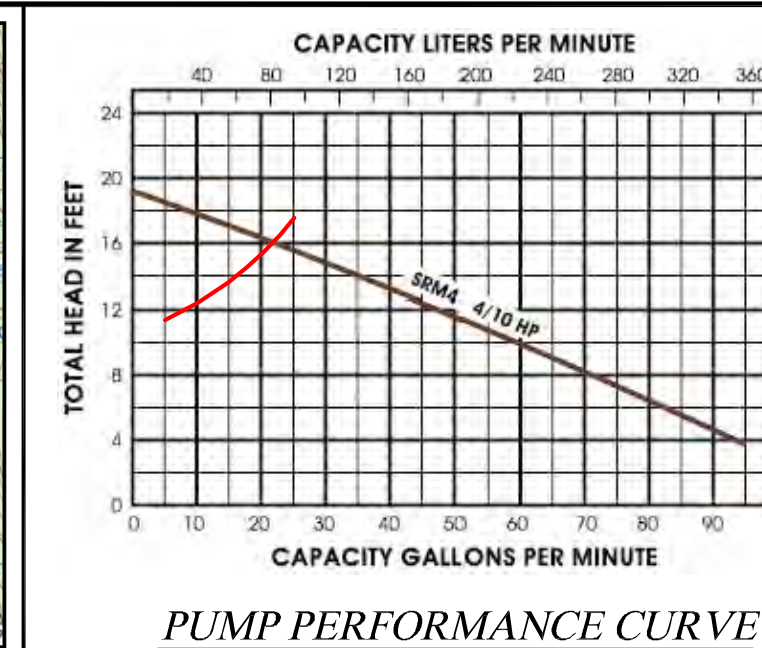
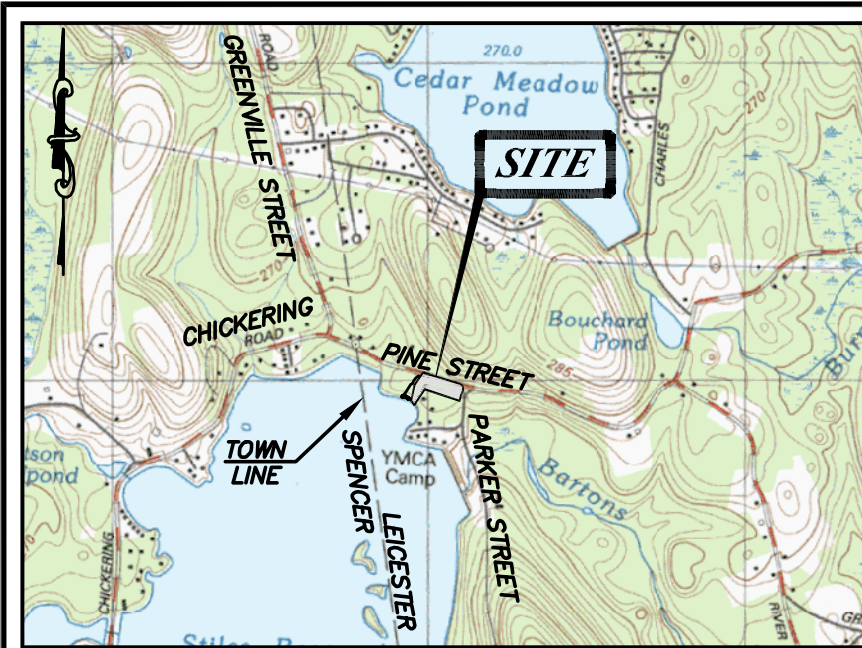
ENGINEER'S SEAL

 08/10/2020  
SIGNATURE      DATE



SURVEYOR'S SEAL





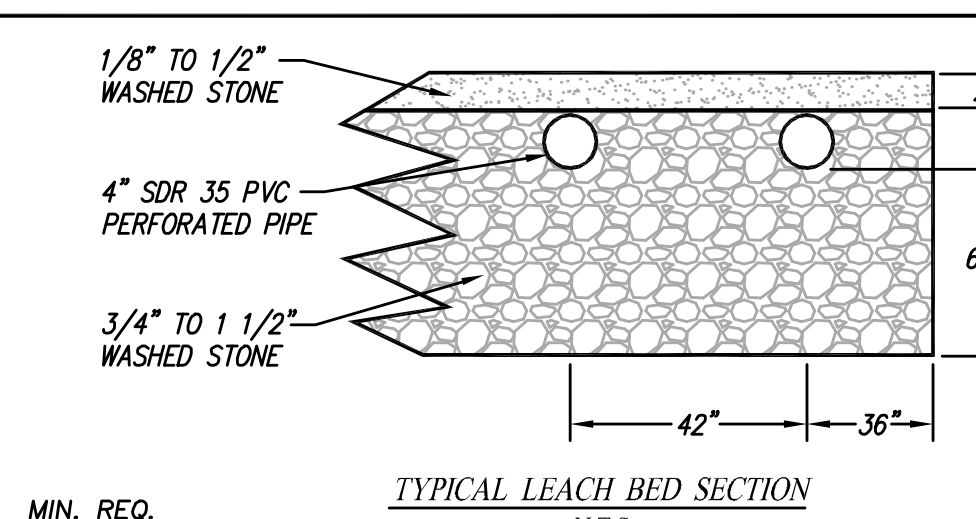
NOTE: TANK & D-BOX TO BE SET LEVEL ON 6" BED OF CRUSHED STONE OVER A COMPACTED SOIL BASE. ALL PIPE PENETRATIONS AND UNUSED OUTLETS IN THE TANK & D-BOX SHALL BE SEALED WITH HYDRAULIC CEMENT.

- GENERAL NOTES**
- THE PROPERTY LINES DEPICTED HEREON ARE BASED ON A COMPILATION OF THE DEEDS AND PLANS OF RECORD AND MONUMENTS LOCATED DURING AN ACTUAL ON THE GROUND FIELD INSTRUMENT SURVEY BY GRAZ ENGINEERING, LLC IN DECEMBER 2016 & JULY 2017.
  - THE EXISTING TOPOGRAPHY, SITE FEATURES, AND UTILITIES DEPICTED HEREON ARE BASED ON THE ABOVE NOTED FIELD SURVEY.
  - THE HORIZONTAL AND VERTICAL DATUMS WERE ESTABLISHED BY NETWORK-RTK GNSS GPS PERFORMED AT THE SITE.  
HORIZONTAL DATUM & BEARING BASIS = MASSACHUSETTS  
MAINLAND GRID (NAD83)  
VERTICAL DATUM = NAVD88 (REFER TO PLAN FOR LOCATION OF BENCHMARKS SET DURING SURVEY).
  - THE WETLANDS WERE DELINEATED BY ECOTEC, INC. ON NOVEMBER 4, 2016 AND WITH FIELD SURVEY LOCATION PERFORMED BY GRAZ ENGINEERING, LLC DURING THE ABOVE NOTED FIELD SURVEYS.
  - AS DEPICTED HEREON, A PORTION OF THE SITE LIES WITHIN ZONE A OF THE FLOOD HAZARD AREA (1% CHANCE) AS SET FORTH ON THE NATIONAL FLOOD INSURANCE RATE MAP (FIRM) 25027C0780E, WHICH BEARS AN EFFECTIVE DATE OF JULY 4, 2011.
  - THIS SEPTIC SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL.
  - ALL CONSTRUCTION TO CONFORM TO 310 CMR 15.000, "THE STATE ENVIRONMENTAL CODE, TITLE 5 AND THE LOCAL BOARD OF HEALTH REQUIREMENTS.
  - THE CONTRACTOR SHALL INSTALL THE SYSTEM EXACTLY AS SHOWN ON THIS PLAN. NO MODIFICATIONS SHALL BE MADE TO THIS SYSTEM WITHOUT PRIOR APPROVAL OF THE BOARD OF HEALTH AND THE DESIGN ENGINEER. THE COST ASSOCIATED WITH THE PREPARATION OF AN AS-BUILT DRAWING DUE TO UNAUTHORIZED FIELD CHANGES SHALL BE BORNE BY THE CONTRACTOR.
  - ALL TOPSOIL, SUBSOIL AND IMPERVIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW AND 5 FEET BEYOND THE SOIL ABSORPTION SYSTEM AREA.
  - FILL MATERIAL SHALL CONSIST OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE SAND FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE PASSING THE #4 SIEVE MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSIS SHALL ALSO BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE TO DEMONSTRATE THAT THE MATERIAL MEETS OR EXCEEDS EACH OF THE FOLLOWING SPECIFICATIONS: 100% PASSING #4 SIEVE; 10%-100% PASSING #50 SIEVE; 0%-20% PASSING #100 SIEVE; 0%-5% PASSING #200 SIEVE AND MUST MEET THE FOLLOWING GRADATION: UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. NO MORE THAN 20% MAY PASS THROUGH THE #100 SIEVE AND NO MORE THAN 5% MAY PASS THE #200 SIEVE (DEP 310 CMR 15.255, 3).
  - HEAVY MACHINERY SHALL NOT BE PERMITTED TO PASS OVER THE LEACHING AREA AND THE CONTRACTOR SHALL STAKE AND FLAG THE SOIL ABSORPTION/LEACHING AREA PERIMETER UPON COMPLETION.
  - ALL PIPING SHALL BE POLYVINYL CHLORIDE (PVC) PIPE PER ASTM D1785 FOR SCH. 40, ASTM D3034 FOR SDR35, AND ASTM D2241 FOR SDR26 WHERE INDICATED ON THE PROFILE, UNLESS OTHERWISE NOTED.
  - THE SEPTIC TANK SHALL BE 1500 GALLON AND SHALL BE REINFORCED CONCRETE WITH H-10 LOAD DESIGN (MIN.) AND WATER TIGHT CONFORMING TO ALL OF THE REQUIREMENTS OF 310 CMR 15.221, 15.223, 15.226, 15.227, 15.228.
  - THE DISTRIBUTION BOX ("D" BOX) SHALL BE A 5 OUTLET REINFORCED CONCRETE BOX OF H-10 LOAD DESIGN (MIN.) WITH A WATER TIGHT COVER AND CONFORM TO ALL THE REQUIREMENTS OF 310 CMR 15.232.
  - IN ACCORDANCE WITH CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, ALL CONTRACTORS SHALL NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE AT 1-888-344-7233, 72 HOURS BEFORE ANY EXCAVATION.
  - THERE ARE NO WETLANDS LOCATED WITHIN 50 FEET OF THE PROPOSED LEACHING FIELD.
  - CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM AREA IS PROHIBITED.
  - ALL INTERIOR PLUMBING, WITH THE EXCEPTION OF THE BACK WASH FROM WATER FILTRATION SYSTEMS, SHALL BE CONNECTED TO THE PROPOSED DISPOSAL FACILITY.

TABLE OF SEPTIC SYSTEM TIE DISTANCES (FT)					
POINT	DESCRIPTION	PROPOSED	ASBUILT	ASBUILT	ASBUILT
A	SEPTIC TANK IN	57.1	77.2	56.1	83.5
B	SEPTIC TANK OUT	62.8	71.5	50.7	81.1
C	PUMP OUT	72.5	62.5	59.1	71.5
D	D-BOX	144.4	37.0	-	31.3
E	SEPTIC CORNER	137.4	31.8	-	32.6
F	SEPTIC CORNER	154.7	46.5	-	45.2
G	SEPTIC CORNER	165.9	80.0	-	80.6
H	SEPTIC CORNER	147.6	72.7	-	74.8

#### DESIGN CRITERIA

ESTIMATED HYDRAULIC LOADING:  
4 BEDROOMS AT 110 GALS/DAY/BEDROOM = 440 GPD  
GARBAGE DISPOSAL SHALL NOT BE ALLOWED WITH THIS SYSTEM.  
SEPTIC TANK SIZE: 1500 GALLONS  
LEACHING AREA DESIGN CRITERIA:  
PERCOLATION RATE: 20 MPI  
SOIL CLASS TYPE: CLASS II (SANDY LOAM)  
ALLOWABLE LOADING RATE: 0.53 GPD/SF  
TITLE V REQUIRED LEACHING AREA: 440 GPD / 0.53 GPD/SF = 831 SF  
LEACHING AREA PROVIDED: 1 BED X 20.0' W X 43' L = 860 SF  
TITLE 5 FLOW PROVIDED: 860 SF X 0.53 GPD/SF = 455 GPD  
BREAKOUT CRITERIA:  
BREAKOUT ELEVATION = 863.60 (MIN.)  
BREAKOUT DISTANCE = 15' WITH 3:1 SLOPE



BED ELEVATIONS					
BED #	EX. GND. ELEV	ESHWIT ELEV	BED ELEV	PIPE INV "A" ELEV	PIPE INV "B" ELEV
1	860.9	858.4	862.40	863.10	862.90
1	860.9	858.4	862.40	863.10	862.89

#### SOIL TEST DATA

DEEP HOLE #TP-C1	DEEP HOLE #TP-C2	DEEP HOLE #TP-C3	DEEP HOLE #TP-C4
FINE SANDY LOAM 10YR 3/4 FINE SANDY LOAM 5YR 5/8 FINE SANDY LOAM 2.5Y 5/3	FINE SANDY LOAM 10YR 3/4 FINE SANDY LOAM 5YR 5/8 FINE SANDY LOAM 2.5Y 5/3	FINE SANDY LOAM 10YR 3/4 FINE SANDY LOAM 5YR 5/8 FINE SANDY LOAM 2.5Y 5/3	FINE SANDY LOAM 10YR 3/4 FINE SANDY LOAM 5YR 5/8 FINE SANDY LOAM 2.5Y 5/3
Ap 0" Bw 5" C 104"	Ap 0" Bw 6" C 90"	Ap 0" Bw 4" C 88"	Ap 0" Bw 5" C 96"
GROUND EL 859.7 STANDING EL NA ESHWIT EL 856.2 REFUSAL EL NA	GROUND EL 859.1 STANDING EL NA ESHWIT EL 856.6 REFUSAL EL NA	GROUND EL 858.5 STANDING EL NA ESHWIT EL 856.0 REFUSAL EL NA	GROUND EL 858.4 STANDING EL NA ESHWIT EL 855.5 REFUSAL EL NA

PERC TEST #	DEPTH	PERC RATE	GROUND ELEV
P-C1	45"	6 MPI	859.8
P-C3	44"	15 MPI	858.3

PERFORMED BY: BRIAN C. MACEWEN, PLS  
WITNESSED BY: JULIE VAN ARSDALEN, BOH AGENT  
DATE: 10/2/16 & 11/30/16

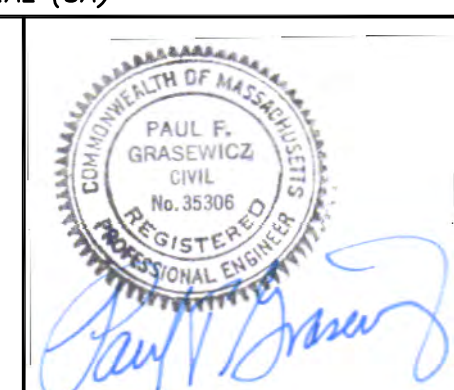
CERTIFICATION:  
I CERTIFY THAT ON JUNE 26, 1997 I HAVE PASSED THE SOIL EVALUATOR EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS WAS PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. SOIL EVALUATOR #1430.

#### PROPERTY DATA

ASSESSORS PARCEL NO.: MAP 41, PARCEL C2.1  
LOT ADDRESS: 555 PINE STREET  
OWNER OF RECORD: STEPHEN D. & JILL M. TERRIEN  
LOCUS DEED: BOOK 58164, PAGE 67  
LOCUS PLAN: PLAN BOOK 925, PLAN 49 - LOT B & PLAN BOOK 931, PLAN 22 - PARCEL 1  
ZONING DISTRICT: SUBURBAN-AGRICULTURAL (SA)

#### LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING ELEVATION
- PROPOSED ELEVATION
- PERCOLATION TEST
- DEEP HOLE TEST PIT
- WELL
- WATER SERVICE



**ASBUILT PLAN**  
**SEPTIC & CONSERVATION C.O.C. PLAN**  
**555 PINE STREET**  
**LEICESTER, MASSACHUSETTS**  
PROPERTY OWNER  
STEPHEN D. & JILL M. TERRIEN  
PREPARED FOR  
STEPHEN D. & JILL M. TERRIEN  
3 LEELA LANE  
ROCHDALE, MASSACHUSETTS  
**GRAZ Engineering, L.L.C.**  
323 West Lake Road, Fitzwilliam, NH 03447 (603) 585-6959





























## Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

### WPA Form 8B – Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

195-0615

Provided by DEP

#### A. Project Information

**Important:**

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. This Certificate of Compliance is issued to:

Stephen Terrien

Name

555 Pine Street

Mailing Address

Leicester

City/Town

MA

State

01524

Zip Code

2. This Certificate of Compliance is issued for work regulated by a final Order of Conditions issued to:

Matt Schold (Schold Development, LLC)

Name

November 20, 2017

Dated

195-0615

DEP File Number

3. The project site is located at:

555 Pine Street

Street Address

Leicester

City/Town

41

Assessors Map/Plat Number

C2.1

Parcel/Lot Number

the final Order of Condition was recorded at the Registry of Deeds for:

Property Owner (if different)

Worcester

County

58083

Book

85

Page

Certificate

4. A site inspection was made in the presence of the applicant, or the applicant's agent, on:

July 28, 2020

Date





**Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

**WPA Form 8B – Certificate of Compliance**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

195-0615

Provided by DEP

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**B. Certification**

Check all that apply:

- ☒ **Complete Certification:** It is hereby certified that the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.
- ☐ **Partial Certification:** It is hereby certified that only the following portions of work regulated by the above-referenced Order of Conditions have been satisfactorily completed. The project areas or work subject to this partial certification that have been completed and are released from this Order are:
- \_\_\_\_\_
- \_\_\_\_\_
- ☐ **Invalid Order of Conditions:** It is hereby certified that the work regulated by the above-referenced Order of Conditions never commenced. The Order of Conditions has lapsed and is therefore no longer valid. No future work subject to regulation under the Wetlands Protection Act may commence without filing a new Notice of Intent and receiving a new Order of Conditions.
- ☐ **Ongoing Conditions:** The following conditions of the Order shall continue: (Include any conditions contained in the Final Order, such as maintenance or monitoring, that should continue for a longer period).

Condition Numbers:

\_\_\_\_\_

---

**C. Authorization**

Issued by:

\_\_\_\_\_  
Conservation Commission

\_\_\_\_\_  
Date of Issuance

This Certificate must be signed by a majority of the Conservation Commission and a copy sent to the applicant and appropriate DEP Regional Office (See <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>).

Signatures:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands

DEP File Number:

**WPA Form 8B – Certificate of Compliance**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

195-0615  
Provided by DEP

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**D. Recording Confirmation**

The applicant is responsible for ensuring that this Certificate of Compliance is recorded in the Registry of Deeds or the Land Court for the district in which the land is located.

Detach on dotted line and submit to the Conservation Commission.

To: \_\_\_\_\_

Leicester

Conservation Commission

Please be advised that the Certificate of Compliance for the project at:

555 Pine Street  
Assessors Map 41, Parcel C2.1

Project Location

195-0615

DEP File Number

Has been recorded at the Registry of Deeds of:

Worcester

County

for:

Stephen Terrien

Property Owner

and has been noted in the chain of title of the affected property on:

\_\_\_\_\_  
Date

\_\_\_\_\_  
Book

\_\_\_\_\_  
Page

If recorded land, the instrument number which identifies this transaction is:

\_\_\_\_\_

If registered land, the document number which identifies this transaction is:

\_\_\_\_\_  
Document Number

\_\_\_\_\_  
Signature of Applicant