

westonandsampson.com

55 Walkers Brook Drive, Suite 100 Reading, MA 01867 tel: 978.532.1900 Application for Special Permit And Site Plan Review

May 2025

JUDD WIRE INC. BATTERY ENERGY STORAGE SYSTEM DEVELOPMENT 124 TURNPIKE RD, TURNERS FALLS, MA

PREPARED FOR: POWERBESSCO 2, LLC

SUBMITTED TO: TOWN OF MONTAGUE PLANNING BOARD



55 Walkers Brook Drive, Suite 100, Reading, MA 01867

Tel: 978.532.1900

May 29, 2025

Ms. Maureen Pollock Planning Director Town of Montague 1 Avenue A

Turners Falls, MA 01376

Re: Special Permit Application and Site Plan Review BESS Development 124 Turnpike Rd, Turners Falls, MA 01376

Dear Ms. Pollock:

Weston & Sampson Engineers, Inc. (Weston & Sampson) is submitting this package which includes an Application for Special Permit & Site Plan Review and related appendices to be filed with the Town of Montague Planning Board for the above-mentioned project on behalf of Peak Power Inc. d/b/a Power BESSCo 2, LLC (the Applicant). The Applicant proposes to develop the project, a stand-alone battery energy storage system (BESS), at the site located at 124 Turnpike Road.

The project will consist of a BESS and associated equipment secured within a chain link fence within the existing parking lot of the Judd Wire, Inc. facility. This application package includes the following attachments.

- Application Fee (\$200.00 (Site Plan Review Fee) Payable to Town of Montague)
- Application Fee (\$143.00 (Special Permit Fee) Payable to Town of Montague)
- Application Forms
- Appendix A Project Narrative
- Appendix B Site Plans Issued for Permitting
- Appendix C Operation & Maintenance Plan
- Appendix D Decommissioning Plan & Cost Estimate
- Appendix E Stormwater Management Report
- Appendix F Project Support Letter
- Appendix G Waiver Request Letter

If you have any further questions or require any additional information, please feel free to contact me by phone at (978) 532-1900 or by email at costello.melinda@wseinc.com.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.

Melinda Costello, P.E.

Winds Cost

Project Manager

cc: Dmytro Gladyshevskyi, PowerBESSCo 2, LLC

Application Forms





MONTAGUE PLANNING BOARD FECEIVED on Hall, One Avenue A, Turners Falls, MA 01376 (412) 265

Town Hall, One Avenue A, Turners Falls, MA 01376 (413) 863-3200 Ext 207 9 2025 MUNTAGUE TOWN CLERK

Application for Special Permit & Site Plan Review

Please Do Not Write In Shaded Boxes
Application # SP/SPR 2025-02
Amount of fee & date pd. \$343 Date filed with Town Clerk6/9/25 Checked by Planner PB Hearing Date 6/24/25 PB Decision Filed Filed In Town Clerk6/9/25
1. APPLICATION IS HEREBY MADE TO THE TOWN OF MONTAGUE PLANNING BOARD FOR: Special Permit pursuant to Section(s) <u>5.5.3</u> ; 8.9; 9 of the Montague Zoning Bylaws Site Plan Review pursuant to Section(s) <u>8.9</u> of the Montague Zoning Bylaws
Applicant PowerBESSCo 2, LLC , Dmytro Gladyshevskyi
Address 444 Somerville Avenue, Somerville, MA, 02143
Phone +1 (647) 567-7878 Email_dmytro.gladyshevskyi@peakpowerenergy.com
3. Property OwnerJudd Wire Inc
Address 124 Turnpike Rd Turners Falls, MA 01376
4. Applicant is:Owner _X _LesseeContract PurchaserTenant in Possession
5. Location of Property 124 Turnpike Rd Turners Falls, MA 01376 being situated on the Right side of Sandy Lane Street, and shown on the Assessor's Map(s) # 14 Parcel(s) 162 ; Franklin County Registry of Deeds Book # 2252 , Page 226 . Zoning District Industrial
6. Description of proposed work and/or use stand- alone Battery Energy Storage System (BESS)
Development
7. Site Plan attached X Yes No (see checklist for information required) If not attached, application may be considered to be incomplete and may not be accepted for filing.

9. I hereby certify that information contained herein is tr	ue to the best of my knowledge.
Applicant's Signature	Date6/9/2025
Application Filed:	
Attest to filing, Town Clerk:	
Decision Filed:	Attest Town Clerk

INFORMATION FOR APPLICANT:

ADDITIONAL COPIES: In addition to the original application form and supplemental documents, <u>a</u> <u>digital copy of all materials in .pdf format is also required</u>. The Planning Board may require up to 6 hard copies of any and all documents, at the discretion of the Planning Board Chair.

FILING FEE: \$50.00 for a special permit; \$200 plus \$2.00 per parking space for site plan review; plus \$3.00 for each "party in interest" listed to a maximum of \$100, payable to the Town of Montague, is required to be paid <u>before</u> the application will be accepted for filing with the Town Clerk and Planning Board Clerk. The Planning Clerk can provide you with an estimate of the approximate number of parties of interest prior to submission of application. Applicant will also be billed for cost of legal advertisement; which must be paid in full before the public hearing.

NOTICES: The Planning Department will obtain the certified abutter's list and conduct the statutory legal notices which include mailing notice to parties of interest, posting and advertising the public hearing.

ADDITIONAL APPLICATION REVIEW FEES: The Planning Board may determine that the assistance of outside professional expertise is required due to the size, scale or complexity of a given project or its potential impact on the health, safety and welfare of the Town. When outside review is determined to be necessary, the Board may require that the applicant pay all reasonable expenses for this purpose, in accordance with Board regulations and M.G.L. Chapter 44 Section 53G.

CONDITIONS FOR APPROVAL: The applicant should be aware that if the application is approved, the Board may, at its discretion, and in addition to any applicable conditions specified in the zoning ordinances or subdivision regulations, impose such additional conditions as it finds reasonably appropriate to safeguard the neighborhood or serve the purposes of the zoning ordinance and subdivision regulations. Such conditions will be imposed in writing. The applicant may be required to post bond or other security for compliance with said conditions in an amount satisfactory to the Board.

FOR ADDITIONAL INFORMATION, CONTACT:

Planning Department, Town of Montague Town Hall, One Avenue A Turners Falls, MA 01376 Phone (413) 863-3200 Ext 207 Fax (413) 863-3222 Email: planner@montague.net



MONTAGUE PLANNING BOARD

Town Hall, One Avenue A, Turners Falls, MA 01376 (413) 863 3200 ex 206

Management Plan Form

APPLICANT INFORMATION:	PROJECT INFORMATION:
Applicant: Dmytro Gladyshevskyi, PowerBESSC o 2,	Project Address and Description:
Address: 444 Somerville Ave	124 Turnpike Rd Turner Falls, MA 01376
Somerville, MA, 02143	
Telephone: 647-567-7878	
Email: dmytro.gladyshevskyi@peakpowerenergy.com	
Owner:Judd Wire Inc. Anthony Fernando	
(if different from applicant)	Amendment to previously approved management plan?
Address: 124 Turnpike Rd Turners Falls, MA	□ yes □ no
01376	□ yes □ □ no
Telephone: +1 860-449-3505	
Email: afernando@juddwire.com	
responsible party to contact in case of complaint: Project does not involve trash and recycling	
Parking, including size and number of spaces, location, screening, p	rovision for handicapped spaces:
Project does not involve parking	
Lighting, including hours of illumination by location, types and wat	tage of fixtures:
Project does not involve lighting	

Signage, including location, size, materials, and any illumination:
Project does not involve signage
Landscape Maintenance, including annual schedule of watering, fertilizing, mowing, pruning, leaf pick-up, and so forth, and maintenance
and replacement schedule of site furnishings:
Project does not involve landscape maintenance
Snow Removal, including name of contractor:
Project does not involve sow removal
ADDITIONAL INFORMATION FOR SPECIFIC PROJECT TYPES (ATTACH ADDITIONAL SHEETS):

ADDITIONAL INFORMATION REQUIRED FOR APARTMENTS:

Number of units, existing and proposed Number of bedrooms, existing and proposed Number of tenants

Owner-occupied?

On-site manager?

Copy of standard lease

Noise management of tenants, parties, music, and any outdoor

HVAC equipment

Material, equipment, and large household goods storage

On-site recreational facilities

Project does not involve apartments

ADDITIONAL INFORMATION REQUIRED FOR NON **RESIDENTIAL USES/ HOME OCCUPATIONS:**

Type of business Number of Employees Hours of operation Deliveries to the site Equipment used/ Noise generated Material and equipment storage

Project does not involve residential uses/home occupations

Application #



MONTAGUE PLANNING BOARD

Town Hall, One Avenue A, Turners Falls, MA 01376 (413) 863-3200 Ext 207

Application Checklist for Site Plan Review

NOTE: Applicants are strongly advised to consult with the Town Planner on any items that are not included or believed not to be applicable. Incomplete information may result in delay or denial of approval.

SITE PLAN, GENERAL INFORMATION:

Information	Included	Not included	Not applicable
Name of applicant	Х		
Name of property owner	Х		
Name of development	Х		
Engineer seal	Х		
Architect seal			Х
Land surveyor seal	Х		
Base map source	Х		
Parcel boundaries with dimensions	X		
Scale	X		
Survey accuracy statement	Х		
North arrow	Х		
Locus map @ 1"=1000"	Х		
Date of plans or revisions	X		

SITE PLAN, EXISTING CONDITIONS

Information	Included	Not included	Not applicable
Current zoning designation	Х		
Zoning designation of adjacent properties	Х		
Location of existing structures	Х		
Topography/existing grades	Х		
Wetland boundaries and location of waterways	Х		
Floodplain boundaries (FIRM)	Х		
Treeline/vegetation boundaries	Х		

SITE PLAN, PROPOSED DEVELOPMENT

Information	Included	Not included	Not applicable
Proposed street lines and names			X
Proposed street profiles and details			X
Limits of paving-Roads, driveways, sidewalks, parking	Х		
Proposed easements & rights of way			X
Proposed grades/grading plan			X
Utilities (including all structures and pipe dimensions)	Х		
Electric and gas lines	Х		gas not applicable
Storm and sanitary sewers			X
Well locations and water lines			X
Telephone & data lines			X
Location of fire lanes and hydrants			X

SITE PLAN, PROPOSED DEVELOPMENT, continued

Information	Included	Not included	Not applicable
Location of proposed structures	Х		
Dimension of front, side and rear yards	X		
Distances from structures to all property lines			
Architectural—Building elevations			X
Lot coverage—area and percent of impervious surfaces			X
Parking Areas—Number & size of bays			Χ
Parking Areas—Spaces for disabled drivers			X
Refuse disposal, including location & screening			X
Loading areas			X
Signs—Attached, freestanding and directional	X		
Lighting—Location and type			X
Landscaping plan—Sites and size of proposed plantings			X
Landscaping plan—Size of plants at maturity			X
Landscaping plan—Common & Latin names of species			X
Location of designated open space or trails, if any			X

Additional information (can be submitted in narrative form)

Information	Included	Not included	Not applicable
Description of use(s) proposed for site	Х		
Hours of Operation			Х
Description of methods to control noise & vibration	Х		
Description of methods to control waste heat			Х
Description of methods to prevent air pollution			X
Soil type(s)	Х		
Drainage calculations	Х		
Description of drainage plans & infrastructure	Х		
Analysis of traffic impacts			X
Passenger vehicles (estimated daily and peak hour trips)			X
Trucks/delivery vehicles (estimated daily trips)			X
Description of plans to enhance vehicular, pedestrian, and			Х
bicyclist safety			^
Natural resources on site, impacts and mitigation plans	X		
Wetlands & water resources	Х		
Rare or endangered plant or animal communities			Х
Historic resources on site, impacts & mitigation plans			X
Analysis of impact to Schools, police, fire (if any)			X
Estimated volume of water use			X
Estimated volume of wastewater			X

Questions: Contact the Town Planner 413 863 3200 ext 207, planner@montague-ma.gov

Appendix A - Project Narrative



Introduction

Peak Power, Inc. d/b/a PowerBESSCo 2, LLC (the Applicant) proposes to construct a battery energy storage system (BESS) encompassing approximately 3,315 sf of the approximately 13.15-acre site, located at 124 Turnpike Rd Turners Falls, MA 01376 (Map 14, Parcel 162). The project site is located in the Industrial District (ID).

The property is currently developed with an industrial building and parking lot for use by Judd Wire Inc. manufacturing facility. The existing utility meter (08100281) and utility transformer (535708) are pad mounted in the exterior electrical area to the Judd Wire facility.

The following narrative and documentation are hereby submitted to the Planning Board under Section 8.9.5 of the Town of Montague Zoning Bylaw, dated May 7, 2022.

This application package includes an Application for Special Permit & Site Plan Review, Management Plan Form, Application Checklist for Site Plan Review, and related appendices. The application appendices can be referenced in the cover letter included in this package.

Proposed Project

The proposed BESS site will be accessed from Sandy Lane. The parcel is owned by Judd Wire Inc. A battery energy storage facility is a permitted use within the ID zoning district via a Special Permit and Site Plan Review by the Planning Board.

The name of the Project Developer is:

PowerBESSCo 2, LLC 444 Somerville Ave Somerville, MA, 02143

Contact: Dmytro Gladyshevskyi

Phone: 647-567-7878

Email: dmytro.gladyshevskyi@peakpowerenergy.com

The name and contact information of the Engineer authorized to represent the Project Developer:

Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100

Reading, MA 01867

Contact: Melinda Costello, P.E.

Phone: (978) 532-1900

e-mail: costello.melinda@wseinc.com

Project Schedule

The following is an estimated schedule related to permitting and construction of this project.

Construction: September 2026 – December 2026

The developer is planning to start construction following receipt of all permits as early as September 2026 with a construction completion date of December 2026.



Compliance with Bylaws

On behalf of the developer, Weston & Sampson has developed a set of plans (Appendix B) that are intended to meet requirements set forth in the Bylaws for the ID zoning district in which the project is proposed. Below is a summary of the dimensional aspects of the project:

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Requirements	Required ¹	Proposed ²		
Minimum Frontage ¹	no minimum lot frontage	506 ft		
Minimum Front Yard Setback	25 ft	5 ft (min)		
Minimum Rear Yard Setback	30 ft	250 ft (min)		
Minimum Side Yard Setback	15 ft	N/A		
Minimum Lot Area	87,120 sf	572,757 sf ± (No change)		
Maximum Structure Height	50 ft	15 ft±		

Table 1 Dimensional and Density Regulations:

- 1. Setbacks listed in Section 5.5.1 of the Bylaws.
- 2. Proposed setbacks measured from the property line to the BESS.

Provisions of the Bylaws relative to the project, followed by an analysis of the project's compliance with applicable provisions (in underlined font), are listed below. The outlined regulations represent an analysis primarily applicable to Section 8.9 of the Solar Energy Installations & Facilities and Battery Energy Storage Facilities portion of the Bylaws.

8.9 SOLAR ENERGY INSTALLATIONS & FACILITIES AND BATTERY ENERGY STORAGE FACILITIES

8.9.2. Definitions.

BATTERY ENERGY STORAGE FACILITY: a physical container providing secondary containment to one or more battery cells for storing electrical energy that is equipped with cooling, ventilation, fire suppression, and an electronic battery management system. It may be a primary use or accessory to a solar energy facility, power generation facility, an electrical substation or other similar uses. Battery Energy Storage Facilities shall not constitute a Public Utility for the purposes of this bylaw. For the purpose of this bylaw, the aggregate rating of the facility shall exceed 80 kWh.

Acknowledged. The proposed BESS qualifies as a Battery Energy Storage Facility as its intended use is for storing electrical energy with a proposed name plate rating of 2,700 kWh.

8.9.5 Solar Energy Facilities and Battery Energy Storage Facilities

Solar Energy Facilities and Battery Energy Storage Facilities are allowed in the Industrial and Historic-Industrial Districts by Special Permit and Site Plan Review from the Planning Board, subject to the submittal requirements and standards in this section. The Planning Board may require additional conditions or vary the prescribed conditions upon a finding that such action is reasonably necessary to meet the purpose and intent of the Bylaws.

The proposed BESS is located in the ID zoning district and thus requires Special Permit and Site Plan Review by the Town of Montague Planning Board. This narrative is being submitted as a supplement to the application package.

(a) Required Submittals. In addition to the required Site Plan elements in 9, the following materials are required for permitting approval of Solar Energy and Battery Storage Facilities:



PROJECT NARRATIVE

i. A plan for the general procedures of operation and maintenance of the installation including security measures, maintenance of emergency access and the clear and available means of shutting down the facility in the event of an emergency.

An operation and maintenance plan for the BESS, which includes measures for security, maintenance of emergency access, and emergency shut down procedures, as well as general procedures for the operational maintenance of the solar energy system, is included in **Appendix C**.

ii. A fully inclusive estimate of the costs associated with removal and site restoration, prepared by a professional engineer.

A fully inclusive, detailed, and itemized Decommissioning Plan and Estimate of the estimated cost associated with removal and full decommissioning of the BESS facility is included in **Appendix D**.

iii. Owners and successors in title shall provide a satisfactory form of surety, either through escrow account, bond or otherwise, to cover the cost of removal and restoration of the landscape in an amount determined to be reasonable by the planning board, but in no event to exceed more than 125 percent of the cost of removal. Such surety may be waived for municipally or state-owned facilities. The form of surety shall be subject to review and approval of Town Counsel.

Acknowledged. The Applicant will work with the Town to provide a form of financial surety prior to construction in line with the costs outlined in the decommissioning plan submitted under **Appendix D**.

iv. A <u>stormwater management report</u> prepared by a professional engineer.

A stormwater management report which adheres to the requirements outlined in the Planning Board Stormwater Policy is included in **Appendix E**.

v. A <u>native flowering planting and maintenance plan</u> that supports pollinator habitat within the project area and its perimeter. Plan to be developed consistently with UMASS Clean Energy's Extension Pollinator Friendly Solar PV Guide.

The proposed BESS development is within an existing impervious parking lot with no change in the vegetative cover proposed for the project. Therefore, a native flowering planting and maintenance plan is not applicable to the project.

- (b) Special Permit Standards
 - i. Adequate access and parking shall be provided for service and emergency vehicles; however, there shall be no exterior long-term storage of equipment or service vehicles on the site.

No parking will be required or is proposed for the BESS project. A total of 12 existing parking spaces within the Judd Wire, Inc. parking lot are proposed to be removed, however, adequate parking is available for the Judd Wire, Inc. facility adjacent to the BESS and across Sandy Lane. A letter from Judd Wire is included in **Appendix F** noting the reduction in parking will not impact their facility operations.

ii. For every mature tree cleared for construction, measured in board feet of wood; at least an equivalent mass of living mature trees shall be retained on-site.

Acknowledged. No tree clearing is proposed for the project.



PROJECT NARRATIVE

iii. An 8-foot security fence shall be installed no closer to a property line than the setback required for a principal building. In addition, the site and its fencing shall be screened by buffering vegetation from a general view from the surrounding ground level unless the Planning Board determines that there is no public benefit from such screening.

Acknowledged. An 8ft tall perimeter fence is proposed around the BESS, however a waiver is being requested from the setback requirements for the ID. A formal waiver request letter is included with this application package in **Appendix G**.

iv. The facility shall provide a vegetated buffer strip of at least 100 feet from any street line property boundaries or from the property line of any abutting residential use. Proposed changes to the landscape of the site, grading, vegetation clearing and planting, exterior lighting, screening vegetation and/or structures;

The proposed BESS is located within the ID zoning district at the existing Judd Wire Inc, manufacturing facility. The lot abuts Sandy Lane, Town owned transfer station and an existing solar field to the south. No vegetation is proposed with the project.

v. To the extent feasible, all network interconnections and power lines, to and from the facility, shall be via underground lines.

The proposed electrical interconnection to the Judd Wire Facility will be underground.

vi. Drainage from impervious surfaces shall be fully accommodated onsite.

Acknowledged. There is no new impervious proposed for the project, or changes to stormwater runoff patterns.

vii. No facility shall be floodlit.

Acknowledged. There is no proposed lighting with the project.

viii. Herbicides may not be used to control vegetation at the facility. The operator shall conduct annual monitoring of the pollinator plantings and will remove invasive species and replant native flowing plants as needed.

Acknowledged. Herbicide use is not proposed for the project.

ix. The owner of the facility must provide for and post a 24 hour emergency phone number and identification of the owner. The information shall remain current and shall also be provided to the Police Chief and Fire Chief.

Acknowledged. Emergency contact information will be posted on the perimeter fence of the proposed BESS.

- x. Decommissioning Requirements. Any facility which has reached the end of its useful life or has been abandoned shall be decommissioned by the owner or operator who shall notify the Board by certified mail of the proposed date of shut down and removal. Decommissioning shall consist of the following:
 - a. Physical removal of all panels, structures, equipment, security barriers and transmission lines from the site within 180 days following the date of notice to the Board.
 - b. Disposal of all solid and hazardous waste in accordance with local, state, and federal waste disposal regulations.
 - c. Stabilization and re-vegetation of the site and erosion prevention.



PROJECT NARRATIVE

- d. The Town shall have the right, upon determination of abandonment, but not the obligation, to claim the financial surety, enter the site and remove the facility in accordance with the requirements of this section.
- e. All facilities, attachments, and accessory structures which have not been used for a period of two (2) years shall be considered abandoned. The removal expense shall be secured with the performance guarantee.

Acknowledged. Decommissioning is outlined in the Decommissioning Plan and Estimate included in **Appendix** <u>D.</u>

xi. Battery Energy Storage Facilities are encouraged to co-locate with solar energy facilities, energy, power generation stations, and electrical sub-stations. Facilities that are a primary use shall be located within a physical building that is harmonious with the adjacent architecture. Relief from this requirement may be granted for exceptional screening or the provision of publicly accessible open space or recreational amenities.

Acknowledged. Although the proposed BESS is not directly co-located with a solar energy facility, it is located in the ID zoning district and will be used to support the existing manufacturing facility, Judd Wire, Inc.

xii. All facilities must comply with the Massachusetts Electrical Code (527 CMR 12.00) and Fire Code (527 CMR 1.00).

Acknowledged. The BESS electrical design will comply with the Massachusetts Electrical Code and Fire Code.

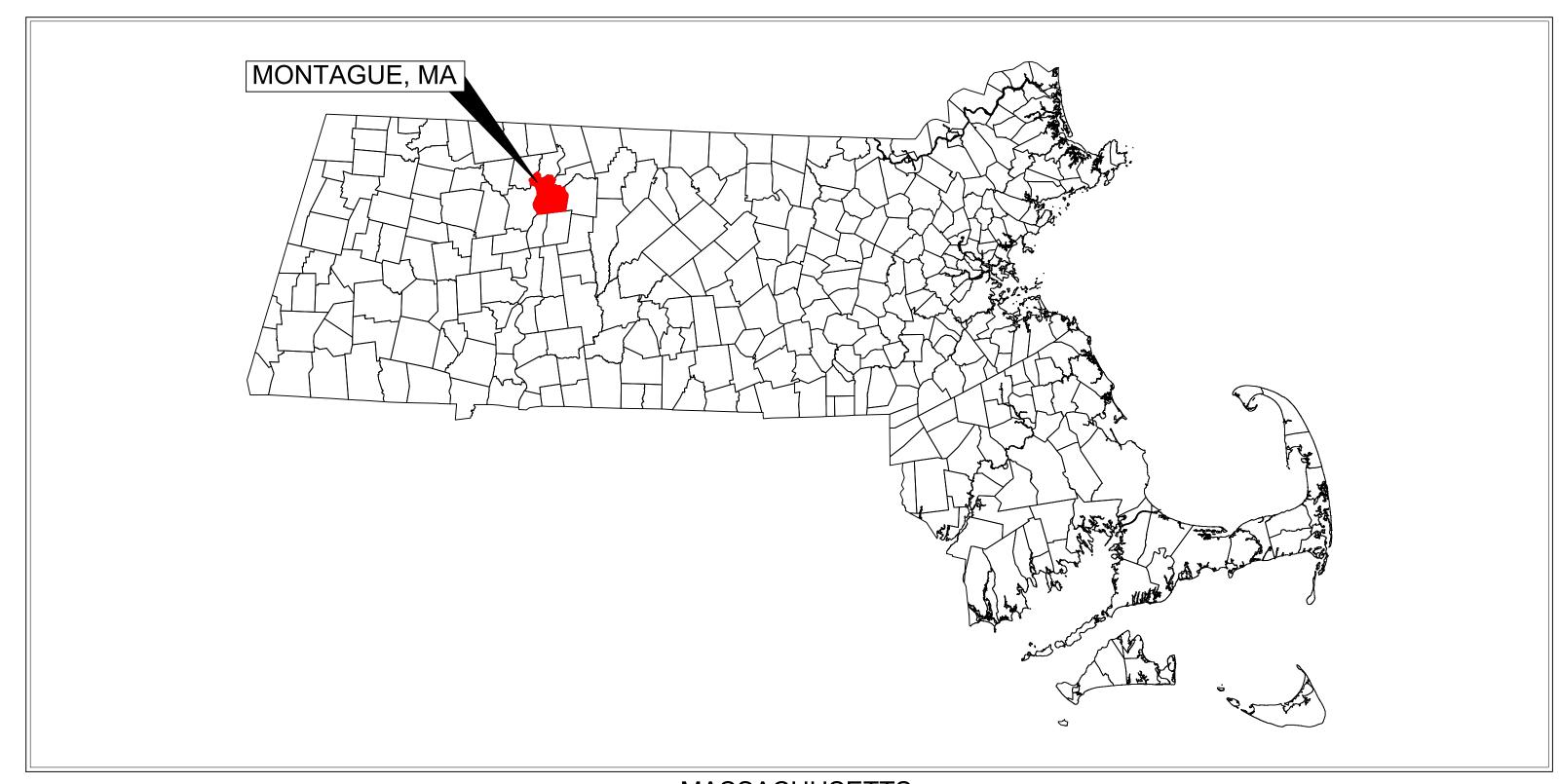


Appendix B - Site Plans



BATTERY ENERGY STORAGE SYSTEM (BESS)

124 TURNPIKE ROAD, TURNERS FALLS, MASSACHUSETTS



	DRAWING INDEX
SHEET	TITLE
GENERAL	
G001	COVER SHEET
SURVEY	
	BOUNDARY, PARTIAL TOPOGRAPHIC & UTILITY SURVEY SHEET 1 0F 2
	BOUNDARY, PARTIAL TOPOGRAPHIC & UTILITY SURVEY SHEET 2 OF 2
CIVIL	
C101	PROPOSED SITE PLAN
C102	PROPOSED SITE PLAN INSET
C501	DETAILS

ZONING INFORMATION			
ZONE:	INDUSTRIAL (ID)		
DIMENSIONAL F	REQUIREMENTS		
MIN. LOT AREA SQUARE FEET:	87,120		
MIN. LOT FRONTAGE:	NONE		
MIN. FRONT YARD AND STREET LINE SETBACK LINEAR FEET:	25		
MIN. SIDE YARD SETBACK LINEAR FEET:	15 OR 50 WHERE A NEW INDUSTRIAL USE ABUTS AN EXISTING RESIDENTIAL USE		
MIN. REAR YARD SETBACK LINEAR FEET:	10 FEET		
MAX. BUILDING HEIGHT LINEAR FEET:	50		

(a) NO BUILDING NEED PROVIDE A STREET LINE SETBACK GREATER THAN THAT OF THE PRINCIPAL BUILDINGS ON 3 OUT OF 4 ADJOINING PROPERTIES ON THE SAME

SITE INFORMATION			
LAND OWNER:	JUDD WIRE, INC.		
BOOK NUMBER:	2252		
BOOK PAGE:	226		
PARCEL ID:	14-0-162		
PARCEL AREA:	13.149 ACRES		



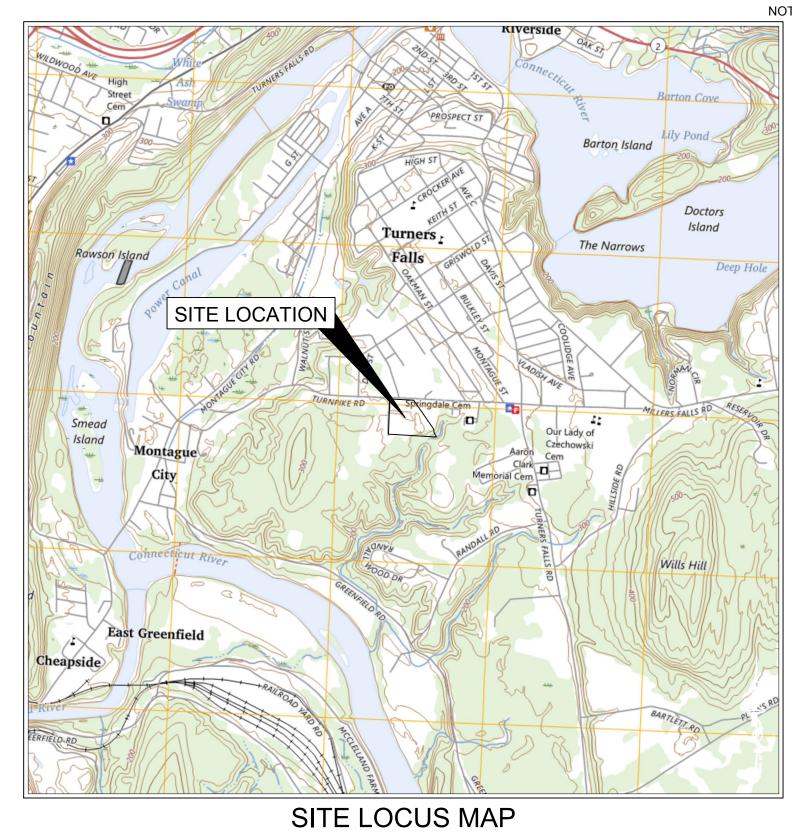
JUDD WIRE, INC. 124 TURNPIKE ROAD TURNERS FALLS, MA 01376 TEL: (413) 863-4357 https://www.juddwire.com



PowerBESSCo 2, LLC 444 SOMERVILLE AVE SOMERVILLE, MA 02143



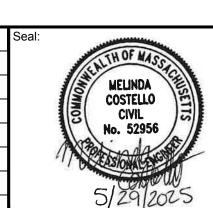
MASSACHUSETTS MUNICIPAL MAP





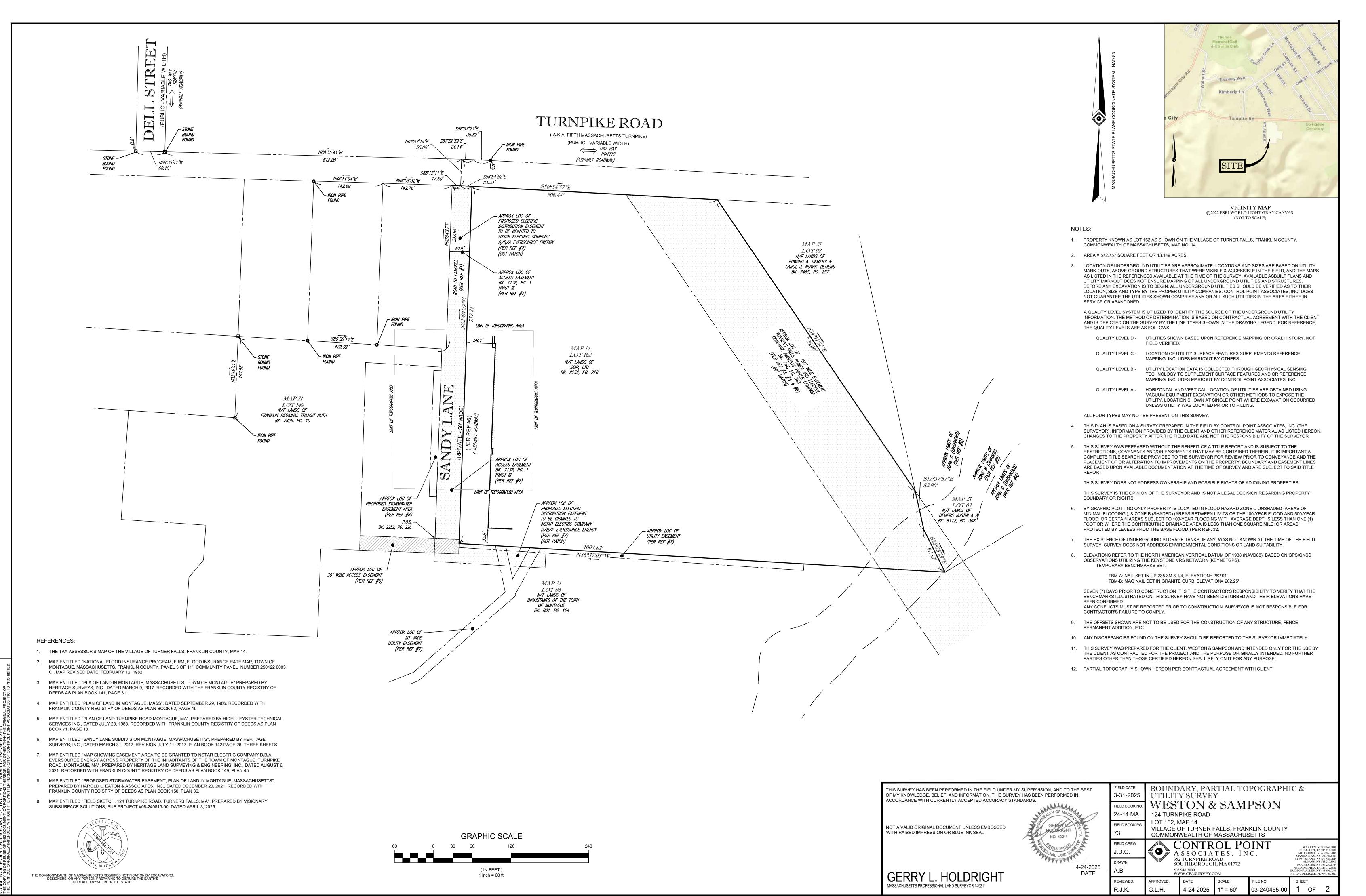
SITE AERIAL MAP

ISSUED FOR PERMITTING 05/29/2025

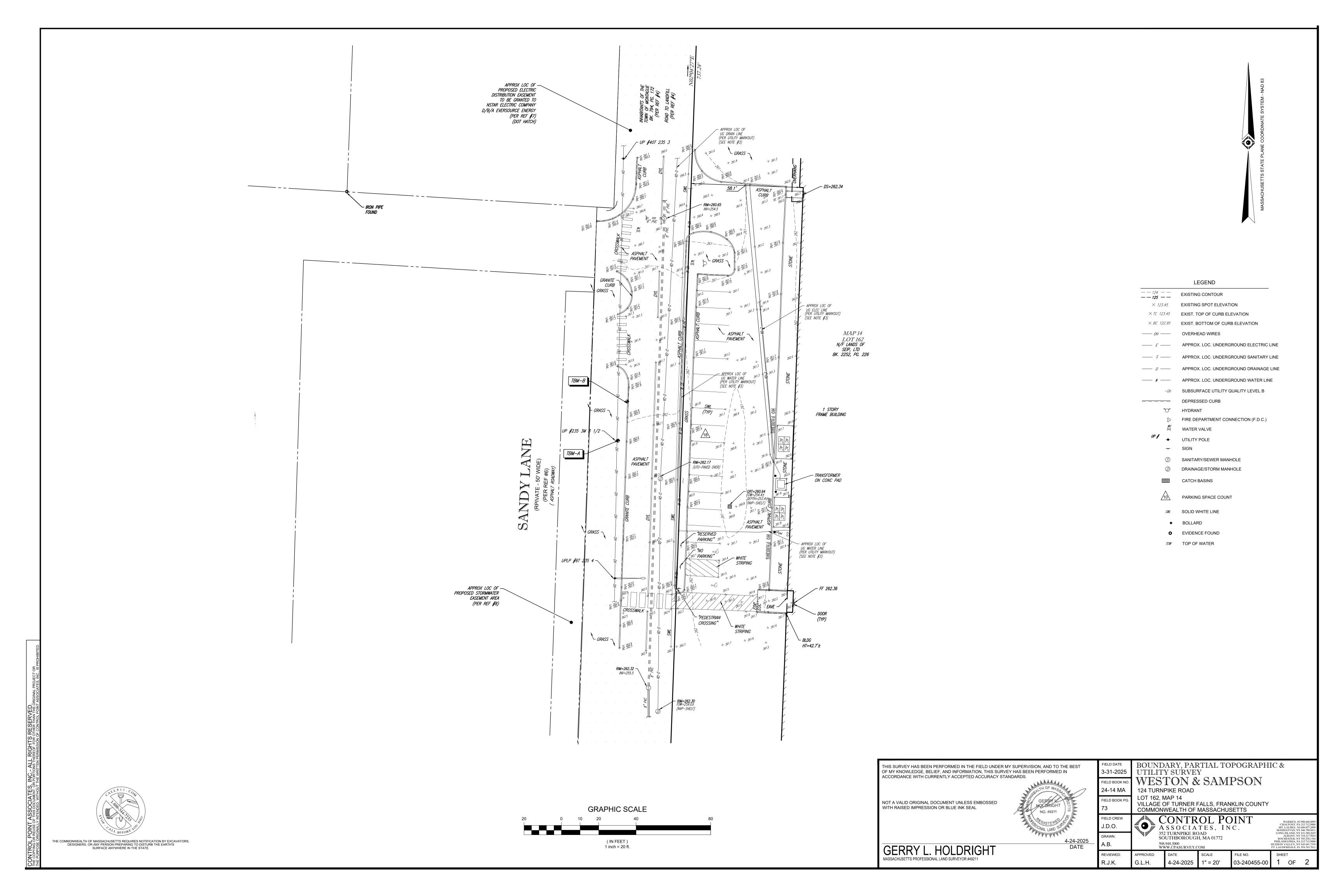


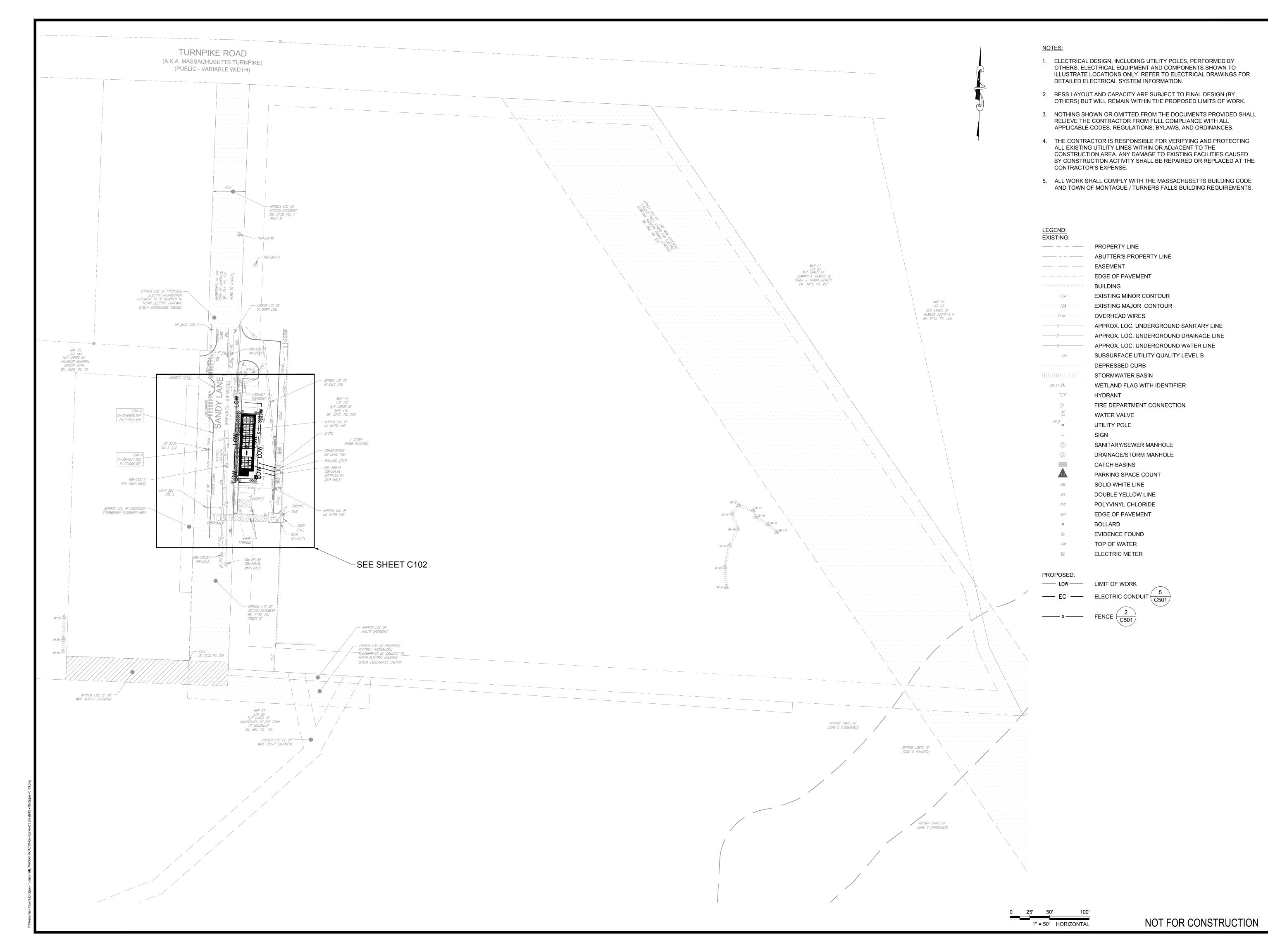
Know what's below. Call before you dig

<u> </u>	Issued For:	DEDMITTING	Drav	wn By:	DED
		PERMITTING	Revi	iewed By:	RJB
	Issued Date:	05/29/2025	Арр	roved By:	MRC
		05/29/2025	Job	No:	ENG25
	Drawing Title:		She	et Number:	
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BATTERY ENERGY STORAGE SYSTEM (BESS) DEVLOPMENT

124 TURNPIKE ROAD TURNERS FALLS, MA 01376

Weston & Sampsor

Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 800.SAMPSON

www.westonandsampson.com

PEAK POWER

PowerBESSCo 2, LLC 444 Somerville Ave Somerville, MA 02143 Tel: (857) 895-6389 https://peakpowerenergy.com

0 05/29/2025 ISSUED FOR PERMITTING
No. Date Description
Revisions:

MELINDA COSTELLO CIVIL No. 52956

Issued Fo

PERMITTING

Scale: AS SHOWN

Issued Date: 05/29/2025

Drawn By: DED

Reviewed By: RJB

Approved By: MRC

W&S Project No.: ENG25-0360

Drawing ⁻

W&S File No.:

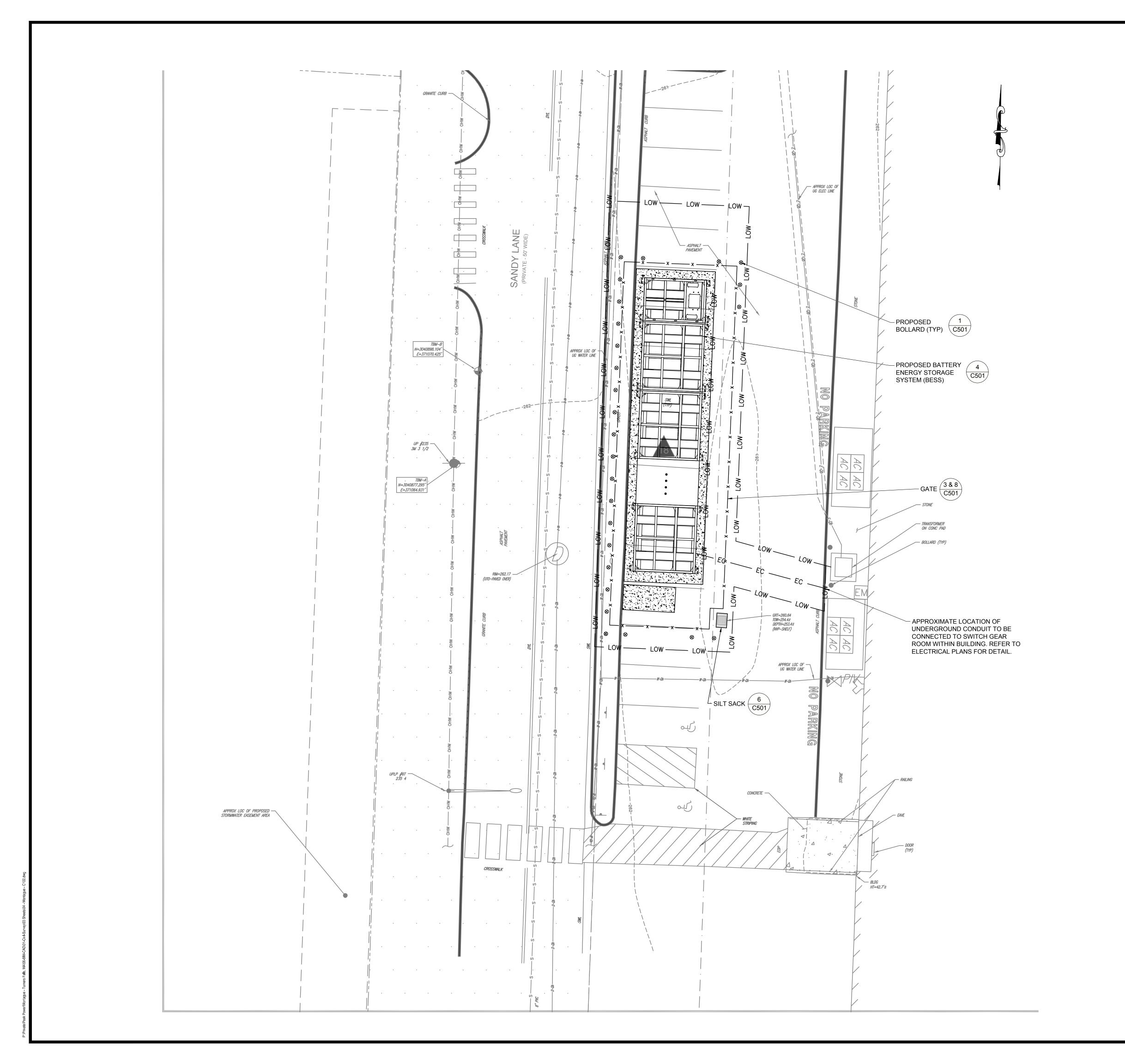
PROPOSED SITE PLAN

Peak Power

Sheet Number:

C101

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NOTES:

- 1. ELECTRICAL DESIGN, INCLUDING UTILITY POLES, PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM INFORMATION.
- 2. BESS LAYOUT AND CAPACITY ARE SUBJECT TO FINAL DESIGN (BY OTHERS) BUT WILL REMAIN WITHIN THE PROPOSED LIMITS OF WORK.
- 3. NOTHING SHOWN OR OMITTED FROM THE DOCUMENTS PROVIDED SHALL RELIEVE THE CONTRACTOR FROM FULL COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, BYLAWS, AND ORDINANCES.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROTECTING ALL EXISTING UTILITY LINES WITHIN OR ADJACENT TO THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 5. ALL WORK SHALL COMPLY WITH THE MASSACHUSETTS BUILDING CODE AND TOWN OF MONTAGUE BUILDING REQUIREMENTS.
- 6. GATE LOCATION SUBJECT TO CHANGE BASED ON FINAL ELECTRICAL DESIGN AND OWNER INPUT.

<u>LEGEND:</u> EXISTING:

APPROX. LOC. UNDERGROUND SANITARY LINE
APPROX. LOC. UNDERGROUND DRAINAGE LINE
APPROX. LOC. UNDERGROUND WATER LINE
SUBSURFACE UTILITY QUALITY LEVEL B

STORMWATER BASIN

SW AT A WETLAND FLAG WITH IDENTIFIER

HYDRANT

DEPRESSED CURB

⇒ FIRE DEPARTMENT CONNECTION₩ WATER VALVE

WATER VALVE

UTILITY POLE

SIGN

SANITARY/SEWER MANHOLE

DRAINAGE/STORM MANHOLE

CATCH BASINS

DARKING SPACE COUNT

PARKING SPACE COUNT

SML
SOLID WHITE LINE

DOUBLE YELLOW LINE

POLYVINYL CHLORIDE

EDGE OF PAVEMENT

BOLLARD

BOLLARD
 EVIDENCE FOUND
 TOP OF WATER
 ELECTRIC METER

PROPOSED:

— LOW — LIMIT OF WORK

— EC — ELECTRIC CONDUIT 5

C501

— x — FENCE 2

C501

5' 10' 20' 1" = 10' HORIZONTAL

NOT FOR CONSTRUCTION

BATTERY ENERGY STORAGE
SYSTEM (BESS) DEVLOPMENT

124 TURNPIKE ROAD TURNERS FALLS, MA 01376

Weston & Sampsor

Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 800.SAMPSON

www.westonandsampson.com

PEAK
POWER

PowerBESSCo 2, LLC 444 Somerville Ave Somerville, MA 02143 Tel: (857) 895-6389 https://peakpowerenergy.com

0 05/29/2025 ISSUED FOR PERMITTING
No. Date Description

MELINDA COSTELLO CIVIL No. 52956

Issued For:

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Scale: AS SHOWN

Issued Date: 05/29/2025

Drawn By: DED

Reviewed By: RJB

Approved By: MRC

W&S Project No.: ENG25-0360

Drawing Title:

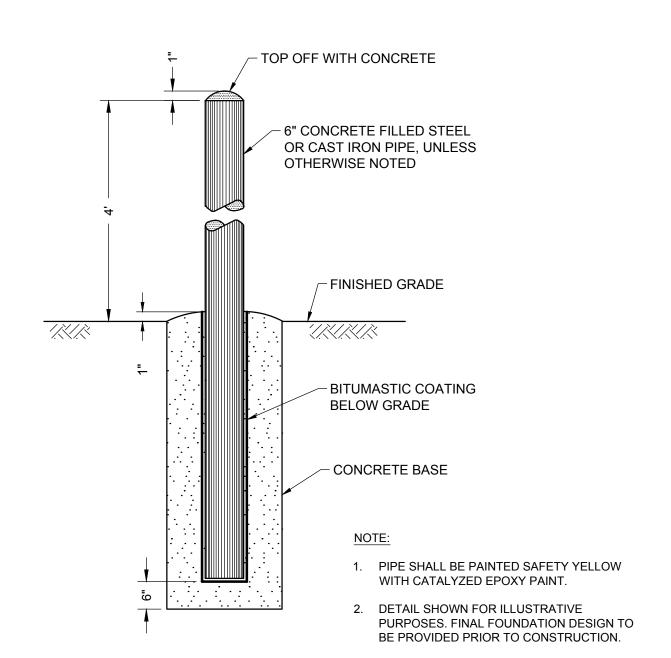
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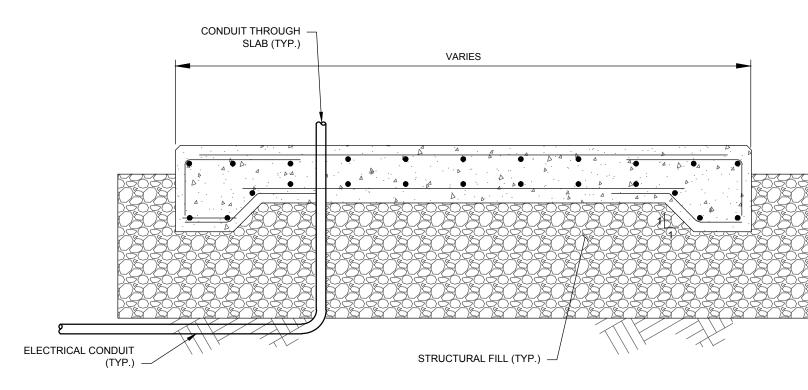
PROPOSED SITE PLAN INSET

Peak Power

Sheet Number:

C102





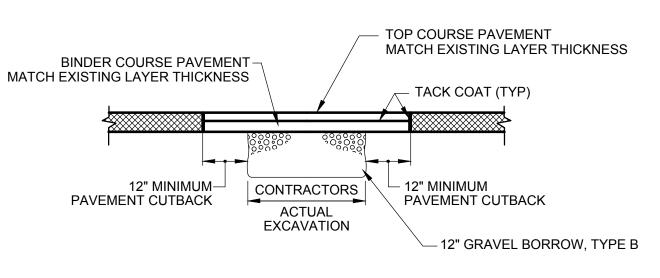
NOTES

BOLLARD

NOT TO SCALE

1. DETAIL IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL FOUNDATION DESIGN TO BE PROVIDED PRIOR TO CONSTRUCTION.

4 TYPICAL CONCRETE EQUIPMENT PAD SECTION
NOT TO SCALE



NOTE:

1. ASPHALT REPAIR SHALL MATCH EXISTING PAVEMENT LAYERS.

2. CUTBACK LIMITS SHALL BE PERFORMED VIA SAWCUTTING.

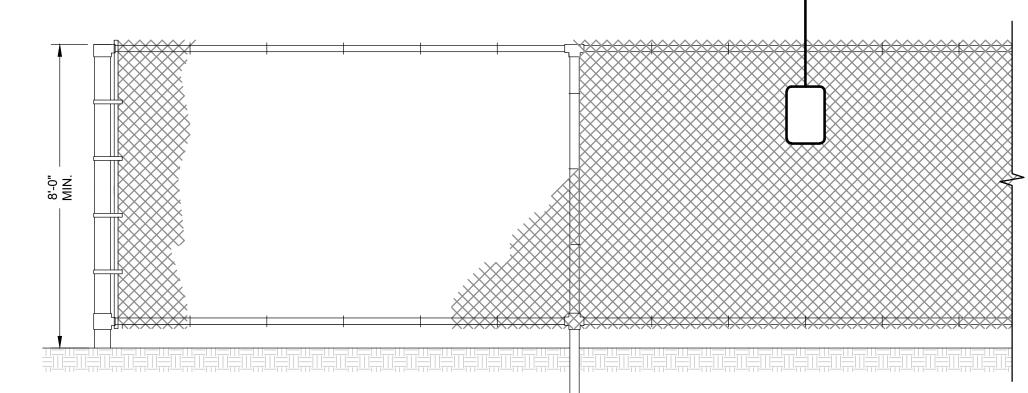
7 PAVEMENT REPAIR

NOT TO SCALE

NOTES:

- FENCE SHALL MEET OR EXCEED THE CHAIN LINK FENCE MANUFACTURER (CLFM)
 GUIDELINES FOR SECURITY AND CHAIN LINK FENCE MATERIALS AND INSTALLATION.
 SECURITY FENCE AROUND THE SITE SHALL BE CONTINUOUS AND 7'-0" (MINIMUM)
- PER THE NEC 110.31.

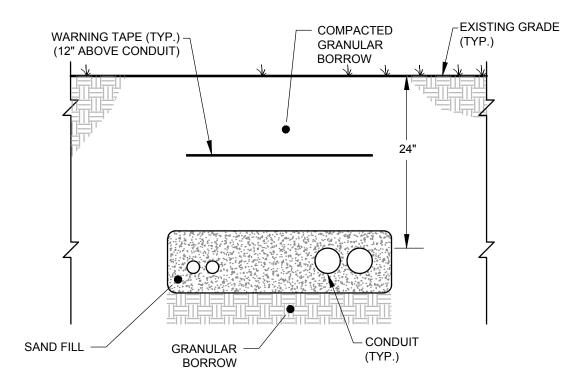
 3. THE SECURITY FENCE SHALL BE GROUNDED IN ALL AREAS WHERE THE BESS IS LOCATED LESS THAN 10'-0" FROM THE FENCE TO LIMIT THE RISE OF HAZARDOUS VOLTAGE (IF APPLICABLE).
- 4. ALL GATES TO BE INSTALLED WITH KNOX BOX AND SIGNAGE WITH EMERGENCY CONTACT INFORMATION (TYP.). KNOX BOX KEY SHALL BE GIVEN TO THE FIRE DEPARTMENT.
- 5. FENCE POST AND FOUNDATIONS DESIGN BY OTHERS.6. FENCE TO BE BLACK VINYL COATED CHAIN LINK FENCE.





POST DRIVEN CHAIN LINK FENCE

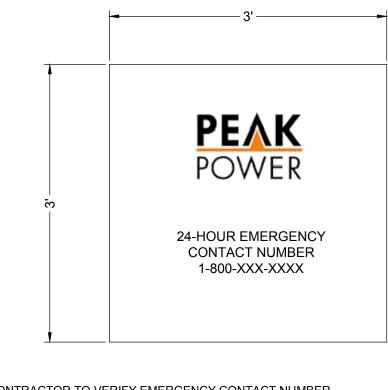
NOT TO SCALE



NOTES:

 TRENCH SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. ELECTRICAL DESIGN AND CONFORMANCE WITH ELECTRICAL CODE REQUIREMENTS BY OTHERS.





1. CONTRACTOR TO VERIFY EMERGENCY CONTACT NUMBER.

8

CONTRACTOR INFORMATION SIGN DETAIL

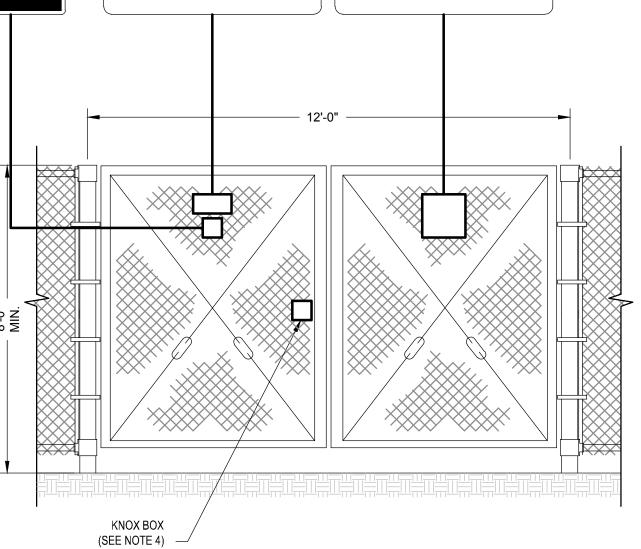
NOT TO SCALE

NOTE:



NO TRESPASSING ON THIS PROPERTY UNDER PENALTY OF THE LAW

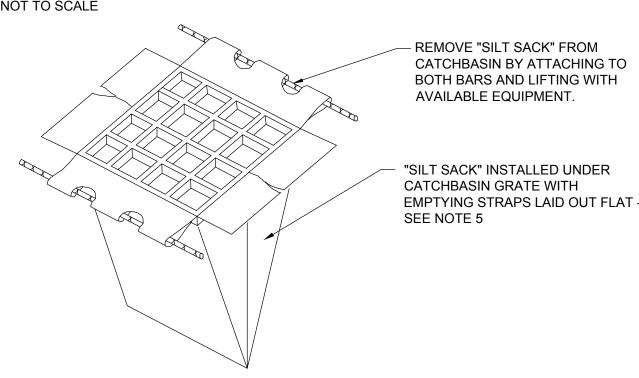
CONTRACTOR INFORMATION (SEE DETAIL 8)



3

CHAIN LINK FENCE DOUBLE GATE

NOT TO SCALE



NOTES:

- 1. REMOVE DRAIN GRATE AND INSERT "SILT SACK", MAKING SURE EMPTYING STRAPS ARE LAID FLAT OUTSIDE OF BASIN.
- 2. REPLACE DRAIN GRATE TO HOLD "SILT SACK" INTO POSITION.
- 3. AS "SILT SACK" BECOMES FULL OF SEDIMENT, REMOVE WITH FRONT END LOADER (OR OTHER SUITABLE EQUIPMENT) AND EMPTY IN AN APPROVED LOCATION.
- 4. REPLACE EMPTIED "SILT SACK" BACK INTO CATCH BASIN.
- 5. PRODUCT SHALL BE ACF ENVIRONMENTAL TYPE A SILT SACK OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



"SILT SACK" INSTALLATION IN CATCH BASIN

124 TURNPIKE ROAD TURNERS FALLS, MA 01376

BATTERY ENERGY STORAGE SYSTEM (BESS) DEVLOPMEN

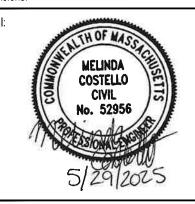
Weston & Sampson Engineers, Inc.

55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

PEAK POWER

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0 05/29/2025 ISSUED FOR PERMITTING
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Reviewed By: RJB

Approved By: MRC

W&S Project No.: ENG25-0360
W&S File No.: Peak Power

Drawing Title:

DETAILS

Sheet Number:

C501

Appendix C - Operation & Maintenance Plan





EXHIBITS

SYL's maintenance program aims to maximize system uptime, optimize performance, extend asset lifespan, ensure safety and compliance, and possibly provide data-driven insights for cost-effective, reliable, and proactive management of the battery storage system.

It is also structured to complement SYL's warranty program, aiming to reduce the client's financial and resource burden while maximizing visibility into the condition and performance of the client's assets.

During the term of this agreement, SYL is committed to delivering a range of services as outlined in Exhibit A, which is an integral part of the Annual Services package. These services encompass preventive maintenance, unplanned maintenance & emergency response, spare part management, training & support, health & safety administration, reporting and record keeping, as well as additional expert services. It is understood that, unless otherwise specified in this document, all services detailed in Exhibit A will be covered under the Service Fee outlined in Exhibit B.

Exhibit A - Scope of Services Overview

This section provides a summary of the services the SYL is obligated to offer under this agreement:

- **Preventive Maintenance:** Refer to section A.3.
- Unplanned maintenance & emergency response: Section A.4.
- **Reporting:** Detailed in A.5 Reports.
- Job Safety Analysis / EHS: See A.6 Job Safety Analysis.
- **Training:** Covered in A.7 Training.
- Spare Parts Management: Explained in A.8 Spare Parts Management.

Overview of Related Exhibits (Referenced within Exhibit A – Scope of Services)

This agreement also includes additional exhibits that are pertinent to and referenced within Exhibit A:

- 1. Exhibit B: Details on the Base Service Fee.
- 2. Exhibit C: Information on Additional Service Fees.
- 3. Exhibit D: Job Safety Analysis (JSA) specifics.
- 4. Exhibit E: Standard BESS O&M Plan.
- 5. Exhibit F: Service Report Form.
- **6.** Exhibit G: Guidelines for Service Reporting.



EXHIBIT A - SCOPE OF SERVICES OVERVIEW

A.1 - Annual Maintenance Plan Meeting Agenda

SYL and Client shall meet on an annual basis to discuss the following:

- A summary of result and performance for the previous year, including but not limited to:
 - Maintenance Schedule and Procedures and Emergency Services performed during the preceding period.
 - Any issues which have arisen with respect to the performance, servicing, and maintenance of the system.
 - O Any environmental, health and safety concerns raised by both parties, or any incidents or near misses occurred on the site during the performance of any service.
 - Any Emergency Services events occurring over the previous period, how they were resolved, and how future response can be improved.
 - Any Emergency maintenance events and any identified reoccurring issues
- Any suggestion from SYL into long term reliability and availability of the system based on activities performed over the previous period; and
- Revision or improvements for the Annual Maintenance Plan described in Section A.3

A.2 – Services and Additional Services Notifications

SYL must notify Client about its, or its Subcontractor's, presence to the Site as per the following:

- <u>Preventive Maintenance</u>:
 - o Tentative schedule on a quarterly basis
 - Confirmation 1 week prior to the service
- Emergency Services or Major Events or Significant Events described in the Section A.4.3: Operator shall confirm to visit within the Response Time described in the Section A.4.3
- Additional Services (other than Emergency services, Major Events or Significant Events)
 - Tentative schedule 1 week prior to the service
 - Confirmation 1 day prior to the service

SYL must maintain reports that include:

- o Date / entrance time / exit time
- o Reason of the access / any reference to a service ticket or work authorization
- o Service technicians visiting the Site

SYL's notification can be performed by email or other means of direct communication agreed upon with the client.

A.3 - Predictive Maintenance Schedule

[The version included below is a generic version and shall be replaced with a Final version of Maintenance Schedule] This section serves as an overview of major maintenance activities and the frequency that they will be performed but shall not serve as a substitute for the Standard O&M Manual.

A.3.1 Universal Predictive Maintenance Schedule

Fire Suppression and HVAC

Fire Suppression Equipment	Frequency
Conduct maintenance and inspections as required by local and national code and as required by the provider.	12 months



Inspect clean agent system accumulator bottles and dispensers. Test electrical System and complete discharge test.	12 months
Inspect Tanks, Pressure Gauge, Tank hold down Brackets,	6 months
Check that the actuators are in place. Check all actuation piping. Check that wiring has not been tampered or disconnected.	6 months
Ensure that all pressure switches are installed and in the correct non-operated position.	6 months
Perform Overall System functionality check by inspecting functionality of Actuators, Detectors, Horns, Strobes, and other system functions in accordance with applicable laws and codes and the System Maintenance Manual.	6 months
HVAC	
Conduct maintenance and inspections as required by the manufacturer.	6 months
Turn on the fan to check if it is smooth and if there is any abnormal noise.	6 months
Inspect unit control panel. Inspect wiring and ensure no insect or animal activity.	6 months
Install new air filters. Air filters to be provided by Client.	6 months
Visually check whether the drainage mouth is blocked.	6 months
Perform condenser coil cleaning.	6 months
Communications Cabinet	
Conduct maintenance and inspections as required by the manufacturer.	6 months
Install new air filters. Air filters to be provided by Client.	6 months

BESS System

Visual Inspection	Frequency
System Enclosure	
Verify all Systems are labeled and label if missing.	12 months
Visually inspect DC disconnect knob for damage and ensure knob/handle functionality.	12 months
Visually inspect exterior of enclosure for any signs of damage, rust or vandalism. For signs of rust, remove rust and coat with rust protector. Repair metal fatigue if necessary. Repair as needed under Additional Services and Additional Services fees terms. Paint over any vandalism.	12 months



Visually inspect all louvers for any signs of damage, metal fatigue or vandalism. For signs of metal fatigue or rust, remove rust and coat with rust protector. Paint over any vandalism.	12 months
Inspect all anchor bolts are securely fastened and check for any signs of damage, metal fatigue or vandalism. For signs of metal fatigue or rust, remove rust and coat with rust protector. Paint over any vandalism.	12 months
Verify door and hinges move freely without restrictions and without creaking. Apply lubricant as necessary.	12 months
Verify locking mechanisms lock freely and properly without restrictions. Apply lubricant as necessary.	12 months
Verify door insulation is not damaged and does not stick to the door when opening. Also verify all doors are sealed tightly when handle is locked.	12 months
Visually inspect interior of Systems for any signs of damage, metal fatigue and/or water damage and/or spots and egress. For signs of metal fatigue or rust, remove rust and coat with rust protector, allowing for appropriate dry time/ventilation after application of paint or rust protector. Repair metal fatigue if necessary. Repair as needed under Additional Services and Additional Services fees terms. Caulk any areas where water egress could or has occurred.	12 months
Collect asset information of ESS enclosure.	12 months
Visually inspect all battery management systems ("BMS").	12 months
Visually inspect batteries for any damage, rust, discoloration, condensation or leakage. Repair or replace as needed under Additional Services and Additional Services fees terms.	12 months
Visually inspect battery power cables for any damage, rust, discoloration, condensation, warping or leakage. Repair or replace as needed under Additional Services and Additional Services fees terms.	12 months
Visually inspect battery communication cables for any damage, rust, discoloration, condensation, warping or leakage. Repair or replace as needed under Additional Services and Additional Services fees terms.	12 months
Collect asset information of all batteries and switchgears.	12 months
Perform container interlock tests.	12 months

Power Conversion System (PCS)/ Power Modules	
Visually inspect converter for signs of damage, water intrusion, corrosion, or potential malfunctioning.	12 months
Visually inspect whether the status of PCS running are normal, as indicated by HMI fault logs or indicator lights.	12 months



	October 2024
Inspect UPS, emergency lights, grounding system, vents for air-flow, hold-downs.	12 months
Battery System	
Check that all alarms, events and fault logs recorded by Golden Shield are complete.	12 months
Check whether the equipotential connecting wire of the electric cabinet is complete	12 months
Export the Golden Shield event record and analyze the data for anomalies	12 months
Example Export 3-day historical BLOCK-BAU data to analyze system running status	12 months
Refer to the collected data, analyze the SOC consistency, historical failure, voltage difference and other information of the battery	12 months
Auxiliary Power Transformers	
Visually inspect transformer for signs of damage or malfunctioning. Repair or replace as needed under Additional Services and Additional Services fees terms.	12 months
Visually inspect connections after opening cover if necessary. Repair or replace as needed under Additional Services and Additional Services fees terms.	12 months
Mechanical Inspection	
Assess System enclosure for mechanical integrity, including, but not limited to, the below.	12 months
Look for signs of physical damage.	12 months
Mechanical Inspection	
Check ventilation and insulation for signs of corrosion and dust deposits.	12 months
Ensure the power conditioning unit installation meets environmental requirements of the power conditioning unit, including temperature, humidity, seismic, and electromagnetic. Ensure there is adequate ventilation to efficiently remove heat away from inverter to maintain the ambient temperature within specification.	12 months 12 months
Ensure there is no presence of water leakage and no presence of corrosive gases in the surrounding area by looking for standing water, water staining, excessive corrosion, etc.	12 months
Check and clean/replace air filters. Ensure air filter is clean (no visible dirt) and there is no visible damage. Assess whether more frequent cleaning is appropriate. Replace as needed under Additional Services and Additional Services fees terms.	12 months
Visually inspect the bolt, bus joints', and cables' torque through the location marks on the bolts or nuts. Torque bolts, bus joints and cable terminals per System installation manual if needed.	12 months



	October 2024
Electrical Inspection	
Perform visual inspection of AC/DC current sensors. Compare current reading from LCD screen against a known measurement (for example, measured by calibrated clamp meter). If the current reading is significantly different (greater than 5%) from the last calibration, it may indicate a compromised sensor.	12 months
Perform visual inspection of temperature sensors.	12 months
Check surge protectors' condition by confirming the status of surge protector.	12 months
Check for open fuse(s). Do so by inspecting the protected circuit, and if any damage is found, remove any fault condition that caused the burning or damage of the fuse initially before replacing the fuse and re-energizing the circuit.	12 months
Measure insulation resistance between battery (+) to ground and battery (-) to ground according to prevailing codes and standards. Troubleshoot for resistance value less than specification.	12 months
Inspect wiring harnesses, connectors, and power cables for signs of damage. Inspect field fitted and installed cables for proper sealing. Inspect factory sealed connections. Damaged sealing may indicate unauthorized field modification. Perform thermal scan on power cables and look for hot spots that indicate high resistance. Repair any hot spots under Additional Services and Additional Services fees terms.	12 months
Inspect circuit boards, by checking ribbon cables and wire connectors are seated properly. Check for any sign of overheating. Repair or replace components showing signs of overheating. Repair or replace as needed under Additional Services and Additional Services fees terms.	12 months
Inspect fan operation, check all signs of wear and tear and abnormal noise; ensure that fan works properly as per control signals. Repair fan, if necessary, under Additional Services and Additional Services fees terms.	12 months
Inspect the electrical panel, check whether each circuit breaker inside can cut off and close the power supply of each circuit load normally.	12 months
Inspect the status of LED lights, check whether they all work. Replace if not working, under Additional Services and Additional Services fees terms.	12 months
Perform the inspection of battery and BMS system, including termination points, cabling, buswork, rack structure, panels, and switches.	12 months
Verify connections to BMS are tight and solidly connected. Torque DC terminals to manufacturer's recommended settings.	12 months
Measuring the resistance of the container shell to the equipotential point of the electrical cabinet $<0.5\Omega$	12 months
Insulation detection with 1500V DC voltage: Stable insulation	12 months



	October 2024
resistance >10MΩ	
The HMI checks the BMS-RACK data and checks whether there is a temperature difference alarm for the RACK pressure difference	12 months
Safety Inspection	
Check all warning signs are clear and legible.	12 months
Check door latching and locking mechanism operate correctly.	12 months
Check emergency stop button's function.	12 months
Check all safety ground connections.	12 months
Functional Verification	
Review all alarm, event, and fault logs as recorded by the power conditioning unit.	12 months
Testing and Calibration	
Supervise EPC Energy performing the system SOC calibration as needed under Additional Services and Additional Services fees terms.	12 months
Supervise EPC Energy performing system capacity testing as required under Additional Services and Additional Services fees terms.	12 months
Supervise EPC Energy performing power performance tests as required under Additional Services and Additional Services fees terms.	12 months
Technical Assessment, Repair and Replacement	
Battery System and PCS	
Check battery log information annually. Check cycle degradation and coordinate with EPC Energy as necessary for augmentation or replacement if available capacity drops below the capacity guarantee or other issues are found under Additional Services and Additional Services Fees terms.	12 months
Check whether the circuit board and the component are clean; Check the temperature and dust off the circuit board heat-sink. Open the fan to clean the module; Replace the air filter. Air filter to be provided by Client.	12 months
Check if there is any crack in the fan blade; Check fan bearings and if there is abnormal noise during the running of the fan; Replace the fan if cracked, producing abnormal noise, or otherwise necessary. Repair or replace as needed under Additional Services and Additional Services fees terms.	12 months
Routine check of the corrosion of the metal components; replace or repair any corroded metal under Additional Service.; Annually check the contactors (auxiliary switches and micro-switches) to ensure the functional operation; Check the running parameters (voltage and insulation)	12 months
Check the emergency stop button and the LCD stop function; Simulation shutdown and check the shutdown signal communication signal; Check the warning labels and other markings for damage or unclearness. Replace them if necessary under Additional Services and Additional Services fees terms.	12 months
Check whether the circuit board and the component are clean and free of dust; Check the temperature to ensure between operational requirements under the warranties and performance guaranties. Replace the air filter. Air filter to be provided by Client.	12 months



Check whether the power cable connections are loose. Retighten them with the torque specified in the System Maintenance Manual if necessary; Check if the power cables and control cables, especially the surface in contact with the metal are damaged.

BOP Equipment					
Check all safety signage and arc flash stickers for wear and tear.	6 months				
Inspect and test ground connections.	6 months				
Check nameplates for legibility.	6 months				
Draw and test a transformer oil sample (oil testing executed by qualified third party laboratory at Operator's expense).					
Perform thermal scan of enclosures while operating; look for hot spots that indicate high resistance.	12 months				
Visually inspect for dust, foreign objects or water ingress. Clean as necessary. Caulk any areas where water ingress could or has occurred.	6 months				
Inspect all anchor bolts are securely fastened and check for any signs of damage, degradation, or rust. Remove rust and repaint with matching rust resistant paint.	6 months				
Inspect walking and driving surfaces for safety. Surfaces should be relatively level and smooth.	6 months				
Check all louvers and vents are not blocked and operable, if applicable.	6 months				
Visually inspect all BOP equipment for dust, foreign objects, or water. Clean as necessary.	6 months				
Inspect the SCADA/communication panel, visual check whether any power or communication wiring seems loose. Inspect if the ventilation and heat dissipation work properly.	6 month				
Walk the perimeter fence of the Facility. Verify the fence is in good condition. Look for signs of erosion under the fence that could allow access.	6 months				
Look for evidence of animals or insects on Facility (burrows, spider webs, ant hills, etc.). Recommend corrective action to Client as appropriate.	6 months				
Inspect the status of the vegetation at the Facility. Depending upon extent of vegetation growth, either treat or arrange third party vegetation control at Client's expense. Recommend pretreating if appropriate.	6 months				

A.3.2 Project Specific Predictive Maintenance Schedul

[The version included below is a generic version and shall be replaced by with a Final version of Maintenance Schedule]

This section serves as an overview of project specific maintenance activities and the frequency that they will be performed.

Vegetation and Weed Control



Inspect perimeter and around equipment for vegetation overgrowth	Quarterly, with		
Trim or remove any vegetation that could impede access or pose a fire hazard.	checks during the growing		
Apply weed control measures, such as herbicides, in compliance with environmental regulations	season (spring and summer).		
Dust and Debris Management			
Clean ventilation systems, filters, and any exposed equipment surfaces	Monthly in		
Clear dust from sensitive components, especially cooling fans and HVAC systems	high-dust areas; otherwise,		
Inspect air filters and replace if clogged or excessively dirty	quarterly		
Corrosion Prevention			
Inspect metal surfaces and structural components for signs of corrosion	Semi-annually, with increased		
Apply anti-corrosion treatments or protective coatings as needed	frequency (quarterly) in		
Tighten and secure any exposed connections to minimize exposure to moisture.	coastal or humid areas		
Pest and Wildlife Management			
Pest and Wildlife Management Inspect equipment housings and enclosures for signs of animal or insect activity	Monthly, with		
	•		

A.4 – Unplanned Maintenance and Emergency Response

A.4.1 Unplanned Maintenance

Unplanned maintenance services are defined as maintenance activities required due to unforeseen issues or failures affecting the system's performance or operational integrity. These activities are intended to restore the system to its normal operating condition and minimize downtime.

A.4.2 Emergency Response

Emergency response services are initiated in the event of critical system issues that pose a risk to safety, equipment, or the environment. Emergency response will be prioritized based on the severity and potential impact on the system's functionality, safety, and compliance with regulatory standards.

Unplanned maintenance and emergency response services are available to the Client on a 24/7 basis.

A.4.3 Response Time Guarantee: SYL guarantees to Client that SYL shall respond to (in accordance with approval from Client) all issues within the time frames (commencing from the time issuance of the applicable field agent ticket)



set forth below, in accordance with the severity of the issue and system impact. All other unplanned maintenance activity shall be arranged through Client agreement.

Major Event	May imminently affect public safety, Equipment damage; or Results in a reduction in performance or availability that would cause Client to be out of compliance with project's obligations.						
Major Event	24/7 response time over phone, to discuss the issue and create a plan.						
Response Time	12-hour response time if onsite maintenance is required. The measurement of the 12-hour response time will begin upon written notification by the Client to the Operator.						
Significant Event	Affects component that could have some impact to project performance or availability so long as such reduction would not cause Client to be out of compliance with the project's current obligations.						
Significant Event	24/7 response time over phone, to discuss the issue and create a plan.						
Response Time	24-hour response time if onsite maintenance is required. The measurement of the 24-hour response time will begin upon written notification by the Client to the Operator.						

Excuse Event. An "Excuse Event" for purposes of this Response Time Guarantee means any Force Majeure Event (or any other event **REASONABLY** likely to cause harm or endanger physical life or safety the SYL) or failure of Client to comply with its obligations under the Agreement.

A.5 – Reports

SYL shall provide the following reports in accordance with Exhibits F and G.

- A report, in electronic format, following the conclusion of any onsite work.
- A monthly operations report providing a summary of key operations statistics, key performance indicators, equipment health, work performed on site during the previous month, a compilation of reported events and issues.

A.6 - Job Safety Analysis

Before starting any Service or Additional Service at the Site, SYL shall perform a toolbox meeting with all its works, agents, Subcontractors or affiliates present at the Site and fill in a Job Safety Analysis ("JSA") in line with the OSHA recommendations. SYL shall provide Client with the JSA within three (3) Business Days from the service date, and shall notify Client if any near misses, incident, or EHS issues occurred at the Site. An example of the JSA can be found in Exhibit E.

A.7 – Training

A.7.1 -- Annual Refresh Training. Annual Refresh Training will occur at the SYL's regional training center. SYL shall provide annual training consisting of the following to the Asset Owner on behalf of the Client:

- Site Walk and Review of BESS / Site Special Safety Precautions.
- BESS Start Up Procedure: Training and On-Site Demonstration.
- BESS Shut Down Procedure: Training and On-Site Demonstration.
- BESS Arc Flash Study: Walk-down, label explanation, and guidance on PPE necessary based on the results of the Client's ARC Flash Study.
- BESS Lock Out Tag Out Procedure: Training and On-Site demonstration.
- BESS Preventative Maintenance Schedule: On-Site demonstration of Preventative Maintenance items.
- Fire Safety and First Responder Training: On site explanation and overview of BESS to fire safety and first responder personnel.



A7.2 – **Optional Training.** In addition, optional training is available and can be provided via the SYL at SYL's training facility. SYL shall be compensated in accordance with the applicable fess in Exhibit D. The topics to be included in the additional training will include:

- Introduction to Energy Storage Systems.
- Electrical Safety.
- Basics of Electrical Theory.
- Power Conversion Systems (PCS) components and operations.
- Battery Energy Storage Systems (ESS) components and operations.
- Balance of Plant (BoP) components and operations.
- SCADA fundamentals including networking and communications topology.
- Data Gathering and Fault/Alarm triage.
- Review of Operations and Maintenance Manuals and Preventative Maintenance Procedures.
- Cell Balancing and SOC Calibration.

A.8 - Spare Parts Management

As part of Spare Parts Management of the scope of Annual Services, SYL shall provide the following services on behalf of Client:

- Continuous and detailed record keeping on the status and identification of Spare Parts and removed components. (e.g., track serial numbers or other identifiers of components such as battery trays as they are removed or added to the system).
- Semiannual onsite Spare Parts inventory update.
- Return merchandise authorization (RMA) coordination with applicable party.
- Return and disposal services are not included in the Service Fee and subject to additional fees. A separate quote will be provided.
- Client to provide adequate warehousing and logistics capabilities near the Facility to be used to receive and store spare part materials.
- Client is responsible for the cost of procuring or replacing spare part inventory.



EXHIBIT B: DETAILS ON THE BASE SERVICE FEE

Service Fee for the generic predictive maintenance portion of this contract is paid on an annual basis USD [xxxxx].

Service Fee for the project specific predictive maintenance portion of this contract is paid on an annual basis USD [xxxxx], but each project may have all or part of the services described in A.3.2

Unplanned maintenance and emergency response portion of this contract is paid on a T&M basis USD [xxxxx].

Routine annual training is included in the annual service fee. All optional training courses should be compensated additionally.

EXHIBIT C: INFORMATION ON ADDITIONAL SERVICE FEES

Tasks outside of those covered in the LTSA will be performed at a rate defined in the SYL Risen Agreement.



*Person Leading the work signature confirms above mentioned mitigations are in place and expected to be effective

Person Leading the Work*

EVHIDIT D. IOD SAFETY ANALYSIS (ISA) SDECIFICS (SAMDLE)

afe	afety Analysis		Work Order # (if applicable):				9 :						
st	structions: Job Description:		Department (check box)		nt (check box):	На	Hazard Controls - Required PPE (cl				neck box):		
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1	The State of the Control of the Cont		fication, PPE, Barricades		Ladders (Pa		Ladder 4:1 pitch, Secure from movement, Inspect, Fall Protect	tion	-	Trenching / Sho	ring	Maintain walking surfaces, Awareness of Surroundomg	5
		valificatio	n, PPE		Lead Expos	ure	Qualification, PPE (Respirators)					Maintain walking surfaces, Awareness of Surroundings	
	Biological (Histoplasmosis, Legionella, Hantavirus				Leaks		Barricades, Isolate Source			Vibration of Tao	is	Proper Tools for job, Impac Gloves, PPE	,
		DS, Lobel I	nfo, PPE n, Confined Space Program,		Line of Fire , Material De	/ Pinch Points	Proper positioning Inspection of Material /			Walking / Working	ng Surface	Fall Protection, Warning of and openings in floors	holes
-	E	ntry Permit	r, Commed space Program, r, Rescue reeping, Ventilation		(Corrosion)	ironment (Rain	Equipment		H	-	<u>-22-</u>		<u> </u>
		escue Pers				righ / Low Temps ve 85 dB's)	conditions (temperatures) PPE (Hearing Protection, Limit Exposure (Time)						
	Pi	oper Work	r Tools, Physical Limitations, r Working Height, Etc.			, pumps, etc.)	Equipment movement hazards, loose clothing. Safe distance from moving parts, Guarding	No om					
		Handrails, Fall Protection Equipment SOP's, Hat Work Permit, Ventilation, Non			Portable Po		Inspect prior to use, Grounded / Double insulated, GFCI, Guards						
	Sg	Sparking Tools Inspect prior to use, Proper tool for job			Pressure Release Hazard Respiratory Exposures		LOTO, relieve pressure before disconnecting, line break Trained, Fit Tested, Medical		H				
]		LOTO Program					Clearance Gualification, Fall Protection, Scaffold Tags				<u> </u>		
			n, Training, Inspect Equipment, , Rated Equipment, Tag Lines		Simultaneo	us Operations	SIMOPS Plan				8.0		
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Person Leading the Work*



EXHIBIT E: STANDARD BESS O&M PLAN

The full BESS O&M manual package is available for download at these URLs.

BESS - <Insert Link for SYL Risen Systems Here>





EXHIBIT F: SERVICE REPORT FORM (SAMPLE)

SERVICE REPORT FORM

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Work Order Number:↩		Technician Name⊖		
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←3	€3	42	43	
ase No.2 [←]				
Location←	Fault description: ←	Field solution: 디	Resu	ilt:←
€3	42	43	₹3	
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	Description 4	Reason 🕘	Quantity 4	
Used Spare Part No.←				



EXHIBIT G: GUIDELINES FOR SERVICE REPORTING

SERVICE REPORT GUIDELINES

The Service Report provided by SYL to Client should include at least the following information:

- Project site / address
- Date / entrance time / exit time
- Technicians' names performing the service.
- Reason for the visit / any reference to a service ticket or request for Additional Service.
- Before / after conditions (what has been found at arrival, what has been solved)
 - o Current (active) and historical alarms (logs)
 - o Photos of service work done with timestamps and geotagged locations embedded.
- Equipment serial numbers and nameplate information.
- Details and explanations on areas of major interest related to availability and system performance, and if the service required any outage or site derating.
- Spare parts used, and where they were sourced from (e.g. Spare Parts Stock, Replacement Spare Parts, return merchandise authorization, purchased through a dealer, etc.)
- Has the problem been rectified after the Site visit, and if not, provide the next steps and timeline needed for repairs.
- Whether a warranty claim will need to be submitted.
- If Additional Service is required outside the scope of the LTSA, a detailed T&M (time and material) cost breakdown.
- Any environmental, health and safety concerns, incidents or near misses occurred on the site during the performance of the service.
- Details on third party SYL used (if applicable) and scope of work performed (e.g. HVAC Contractors, Fire Suppression Personnel, Landscapers, etc.).

Appendix D – Decommissioning Plan & Cost Estimate





15 DECOMMISSIONING PLAN AND COSTS

DNV reviewed Peak Power's approach to decommissioning described in the "Decommissioning Plan" [87]. The Project comprises distributed assets such as solar PV systems and BESSs at approximately 59 C&I host sites. Peak Power stated that the ESAs with the host sites require that assets such as BESSs and solar PV systems be decommissioned at end of life and that the sites be returned to their original condition. The typical term of an ESA is 15 years, at the end of which Peak Power and the host site may agree to one of the following options [87].

- Enter into a PPA using the existing solar PV equipment while removing and decommissioning the BESS.
- Replace the BESS assets at the end of life under a new contract to extend the VPP's life cycle.
- Decommissioning the project in its entirety which will include removal of all assets, re-use or recycling of assets, and restoration of the site to its original state. Decommissioning will start within 9 months following the decision to decommission the project and will be completed within 18 months.
 - Peak Power will coordinate and outsource asset removal to specialized contractors.
 - All recyclable assets will be recycled if they cannot be re-used.
 - Peak Power will work with local EPCs that are familiar with BESSs and, where possible, the infrastructure at the host site. Site restoration will be completed by third-party contractors but will be overseen by Peak Power.

DNV finds Peak Power's high-level approach to decommissioning to be reasonable. Additionally, DNV reviewed the following supporting documents to further assess the alignment of Peak Power's decommissioning plan and costs with industry expectations.

- Li-Cycle services presentation [88]
- Form services agreement for recycling services between Peak Power and Li-Cycle [89]
- BESS Decommissioning Costs Indicative Pricing from SunGrid Solutions [90]

DNV's findings from the review of the above supporting documents are summarized in Sections 15.1-15.3 and the overall conclusions are provided in Section 15.4. DNV's review focused on Peak Power's approach to decommissioning of the BESSs at host sites. Review of the decommissioning plan for solar PV systems is outside of DNV's present scope of work.

15.1 EPC decommissioning

DNV reviewed the indicative pricing for decommissioning services by SunGrid. SunGrid as the EPC contractor will decommission civil equipment foundations, mechanical, and electrical terminal capping. SunGrid will also provide decommissioning assistance for the BESS supplier by offering cranage/forklift services. The total decommissioning cost associated with the offered services for a BESS size of 2.5 MWac / 5 MWhdc is \$336,600, which is equivalent to \$67.32/kWhdc. Also, the total decommissioning cost associated with the offered services for a BESS size of 3 MWac / 12 MWhdc is \$448,000, which is equivalent to \$37.33/kWhdc. DNV considers the indicative pricing for decommissioning services by SunGrid to be in line with industry expectations.

15.2 Recycling

Peak Power intends to contract with Li-Cycle, a company that specializes in recycling lithium-ion batteries using a proprietary process with up to 95% recycling efficiency [88]. DNV reviewed documentation detailing Li-Cycle's capabilities and pricing of services. Li-Cycle has multiple processing facilities in North America in ON, NY, AZ, and AL, and is considering expanding its business to Germany and Norway [88]. The processing capacity (in metric ton per year) of the North American facilities that are in operation or in development are shown in Table 15-1.



Table 15-1 Li-Cycle facilities

North American	Capacity	Operational
Kingston, ON	5,000 MT/y	2020
Rochester, NY	5,000 MT/y	2020
Gilbert, AZ	10,000 MT/y	March 2022
Tuscaloosa, AL	10,000 MT/y	Q2 2022
North American Hub	90,000 MT/y	2023

Li-Cycle's recycling process of the batteries is illustrated in Figure 15-1. At the end of life, batteries are shipped to the regional spokes for shredding and sorting for the battery's materials. Some of the sorted materials, such as plastic and metals are directly sold into the market. The mixture of the battery cells content (black mass) is further hydrometallurgical processed to extract valuable metals such as lithium, manganese, cobalt, and nickel. The extracted materials are recycled back into the battery supply chain.



Figure 15-1 Li-Cycle's recycling process [88]

DNV takes no exception to Li-Cycle's capabilities as the recycling service provider for Peak Power's portfolio.

The unexecuted services agreement for recycling services by Li-Cycle, includes pricing for recycling and transportation of batteries from Peak Power's facility to Li-Cycle's facility. The prices are as follows [89]:

Recycling cost for LFP battery: \$0.80/lbs.



• Full truckload shipment cost: \$1,614/shipment for 8 shipments.

The agreement states that Peak Power is responsible for packaging the batteries according to Department of Transportation (DOT) regulations and standards. DNV considers the recycling and transportation costs to be within industry expectations.

15.3 Decommissioning cost estimates

Peak Power has estimated the decommissioning and recycling costs shown in Table 15-2 based on indicative pricing received from vendors. The BESS decommissioning cost assumption of \$69/kWh under the OpEx inputs of the archetype model is in line with these budget estimates and meets expectations for BESS decommissioning costs.

Table 15-2 Peak Power's decommissioning costs assumptions

Decommissioning Item	Cost (\$/kWh)
BESS Decommissioning	50.40
BESS Recycling	19.07

Peak Power plans to establish a sinking fund for the decommissioning costs. Based on the projected decommissioning and recycling costs, Peak Power estimates collecting \$66 million for the fund from the project revenue. The proposed sinking fund will use a 13-year lookahead period, with contributions starting after 2 years of project operations. Peak Power will contribute to the fund using 25% of the available cash for the period until the fund reaches the target balance. Based on the current financial model, Peak Power anticipates that it will reach the required balance to decommission the entire portfolio of projects by 2033. DNV considers Peak Power's BESS decommissioning and recycling cost assumptions to be reasonable [89], [90].

15.4 Decommissioning conclusion

DNV finds Peak Power's high-level approach to decommissioning to be reasonable. Peak Power will contract with third-party service providers for decommissioning and recycling of the VPP assets. DNV notes that the indicative pricing obtained by Peak Power from vendors for BESS decommissioning and recycling services are in line with expectations. DNV has not reviewed detailed decommissioning plan procedures that will be utilized by the third-party service providers. DNV recommends that Peak Power ensure that the third-party service providers have a documented decommissioning process that includes the procedure for safely and effectively shutting down, uninstalling, disassembling, removing systems from a site, and disposing and/or recycling such systems, as applicable, both in the case of normal end of life decommissioning and in the case of an abnormal failure or fire event. An effective decommissioning plan takes into account safety and the environment, and will adhere to industry best practices, standards, regulations, and local legislation. A typical decommissioning plan may include guidance around the following topics:

- Safety
- Disconnect and isolation of systems
- · Removal of hazardous materials
- Waste management and recycling
- Site restoration
- Environmental monitoring to ensure there is no harmful impact

Appendix E – Stormwater Management Report





westonandsampson.com

Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 tel. 978 532-1900

REPORT

May 2025

PowerBESSCo2, LLC

Battery Energy Storage System (BESS) Development

124 Turnpike Road Turners Falls, MA 01376

Stormwater Report

STORMWATER REPORT

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Attachment B - Wetland Delineation Report

Attachment C - NRCS Web Soil Survey Map & Report: Hydrologic Soils Group,

FEMA FIRMette, NOAA Atlas 14 Rainfall Data

Attachment D - Drainage Area Maps & HydroCAD Reports

Attachment E - Long Term Pollution Prevention Plan

Attachment F - Construction Period Pollution and Erosion and Sedimentation Control

Plan

STORMWATER REPORT

Applicant/Project Name: PowerBESSCo2, LLC

Battery Energy Storage System (BESS) Development

Project Location: 124 Turnpike Road, Turners Falls, MA 01376

Application Prepared by:

Firm: Weston & Sampson Engineers, Inc.

Registered PE: Melinda Costello, P.E.

Introduction

Weston & Sampson Engineers, Inc. (Weston & Sampson) has prepared this stormwater report on behalf of PowerBESSCo2, LLC, to develop a Battery Energy Storage System (BESS), located at 124 Turnpike Road in Turners Falls, MA.

The existing site is located on an approximately 13.149-acre parcel privately owned land. The eastern portion of the parcel includes Judd Wire Inc, a business manufacturing and supply building. The site is bounded by Turnpike Road the north, Sandy Lane to the west, Franklin County Sheriff's Office to the south, and undeveloped land to the east.

Proposed Project

The project will consist of a BESS and associated equipment pads. A post driven chain link fence and bollards will be used to provide security and separation of any unqualified personnel from the proposed BESS system, as required by the National Electric Code (NEC). There is an estimated 215 linear feet of new fencing that will be installed to surround and enclose the BESS and associated equipment pads. The total area within the fence limits is approximately 2,075 square feet.

A Locus Map of the project location is included as Figure 1 in Attachment A.

The project area lies outside of the 100-year FEMA flood zone. The FEMA FIRMette is included in **Attachment C**. There are no wetlands on-site based on a field investigation performed by Weston & Sampson. A wetland delineation report is included in **Attachment B**. Based on MassGIS data the site area is not located within the 100-year flood zone.

Stormwater Analysis

Pre- and post-development peak design flows were assessed using the National Resources Conservation Service (NRCS) Technical Release 20 (TR-20) methodology. HydroCAD® version 10.20-3c stormwater modeling software was used to analyze and compare pre- and post-development stormwater conditions for the 2-, 10-, 25-, and 100-year 24-hour storm events. It is a comprehensive hydrodynamic modeling program used to analyze systems such as, but not limited to, site hydrology, water conveyance infrastructure, and stormwater management systems.

According to the United States Department of Agriculture Natural Resource Conservation Service (USDA NRCS) Web Soil Survey online soil mapping data, the site is comprised exclusively of hydrologic soil group (HSG) A soils. Table 1 below shows the soils associated with the site. For more information, the NRCS Web Soil Survey report with associated soil descriptions and maps are included in **Attachment C**.



Table 1 – NRCS Site Soils Description & HSG

Map Unit Symbol	Map Unit Name	HSG
255A	Windsor loamy sand, 0 to 3 percent slopes	А
656	Udorthents, refuse substratum	А

Rainfall data is referenced from the National Oceanic and Atmospheric Administration (NOAA) Atlas 14, Volume 10, Version 3 for Turners Falls, Massachusetts and is included in **Attachment C**.

A summary of the analysis is provided below. The full HydroCAD® reports for pre- and post-development conditions with associated drainage area maps are included in **Attachment D**.

Existing Hydrology

The site's high point is the eastern part of the pedestrian crosswalk north of the proposed BESS at a general elevation of approximately 262.4-feet. The southern part of the existing asphalt parking lot slopes north towards the existing catch basin, located in the center of the parking lot. The northern part of the parking lot has a high point of approximately 261.4-feet, where on the south side of the high point slopes towards the existing catch basin and the north side slopes towards Sandy Lane off site. There is a grassed area on site bounded by a curb that has a gradual slope moving south to north.

The site has multiple isolated high points. It is evident that most stormwater runoff eventually drains to an existing catch basin infrastructure in the center of the paved parking lot, with a northern high point draining to Sandy Lane.

Based on the survey entitled 'Boundary, Topographic & Utility Survey' for Weston & Sampson, dated March 31, 2025 by Control Point Associates, Inc. of the project parcel, the existing catch basin located in the parking lot is a drywell and infiltrates stormwater.

The stormwater analysis for this project was modeled using the limits of the parking lot area. The limits of Sandy Lane were not considered with this analysis.

Based on the site topography and existing drainage pathways, two points-of-analysis (POA) were analyzed and are listed below.

- POA-1 catch basin located at the low point of the existing parking lot
- POA-2 Sandy Lane, located northwest of the existing parking lot

Figure 1 of **Attachment D** displays the limits of the drainage areas, time of concentration flow paths, and land coverages for the pre-development conditions.

Proposed Hydrology

The proposed project includes the installation of a BESS and associated equipment pads in the asphalt parking lot west of the existing building. The proposed BESS is located on impervious areas, with 18 bollards located on the grass area bounded by the curb of the parking lot. Therefore, the existing ground coverage and drainage pathways will remain the same from pre- to post-development conditions, with the exception of the included bollards which are included as disconnected impervious in the proposed hydrology model.



Figure 2 of **Attachment D** displays the limits of the drainage areas, time of concentration flow paths, and land coverages for the post-development conditions. The same POAs and drainage areas were used for the post-development conditions as the pre-development conditions.

Massachusetts Stormwater Management Standards

The project site is outside of Massachusetts Wetland Protection Act Resource Areas and buffers, however, the project site was designed to comply with the Massachusetts Stormwater Standards to the maximum extent practicable.

Below is a summary of the proposed stormwater management system's compliance with the Massachusetts Stormwater Management Standards 1-10.

Standard 1: No New Untreated Discharges

There will be no new untreated discharges associated with the project as there is limited variation in land coverage, and no variation time-of-concentration flow paths from pre- to post-development conditions.

Standard 2: Peak Rate Attenuation

Table 2 and Table 3 below show the comparison of peak flow runoff rate and runoff volume from pre- to post-development conditions, respectively. There is no increase in peak flow runoff rate in cubic-feet per second (cfs) nor runoff volume in acre-feet (af) from pre- to post-development conditions for POAs 1 and 2 for the 2-, 10-, 25-, and 100-year 24-hour storm events.

Table 2 – Stormwater Peak Flow Rate Comparison

Point of Analysis	24 Hr	Peak Runoff Rate (cfs)		Difference in Peak	
FUITE OF Arialysis	Storm	Pre-	Post-	Runoff Rate (cfs)	
	2yr	0.6	0.6	0.0	
POA-1	10yr	0.9	0.9	0.0	
POA-1	25yr	1.2	1.2	0.0	
	100yr	1.5	1.5	0.0	
	2yr	0.4	0.4	0.0	
POA-2	10yr	0.6	0.6	0.0	
FUA-2	25yr	0.8	0.8	0.0	
	100yr	1.0	1.0	0.0	

Table 3 – Stormwater Runoff Volume Comparison

Point of Analysis	24 Hr	Runoff Volume (af)		Difference in	
r Ollit Ol Allalysis	Storm	Pre-	Post-	Runoff Volume (af)	
POA-1	2yr	0.043	0.043	0.000	
	10yr	0.071	0.071	0.000	
	25yr	0.089	0.089	0.000	
	100yr	0.116	0.116	0.000	
	2yr	0.027	0.027	0.000	
POA-2	10yr	0.047	0.047	0.000	
FUA-2	25yr	0.059	0.059	0.000	
	100yr	0.079	0.079	0.000	



The full HydroCAD® reports for pre- and post-development conditions are included in **Attachment D**.

Standard 3: Recharge

The added impervious coverage associated with the bollards are not considered impervious coverage requiring treatment per MassDEP nor the Town of Turner Falls. Therefore, recharge calculations are not required.

Standard 4: Water Quality

As stated above, there is no proposed impervious coverage requiring treatment, therefore, the water quality calculations are not required.

Standard 5: Land Uses with Higher Potential Pollutant Loads (LUHPPLs)

Not Applicable. There are no LUHPPLs in the work area.

Standard 6: Critical Areas

There are no critical areas within the proposed project area. A critical areas map is included in Attachment A.

Standard 7: Redevelopments and Other Projects Subject to the Standards Only to the Maximum Extent Practicable

Not Applicable. This project is new construction.

Standard 8: Construction Period Pollution Prevention and Erosion and Sediment Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan is included in **Attachment E**. To ensure that the work incorporates the performance standards recommended in MassDEP's Stormwater Management Policy, necessary erosion and sedimentation control measures will be utilized during construction as shown on the site plans.

Standard 9: Operation and Maintenance Plan

Not Applicable. There are no Stormwater BMPs proposed for the project site.

Standard 10: Prohibition of Illicit Discharges

Not applicable. There are no illicit discharges associated with the proposed project.





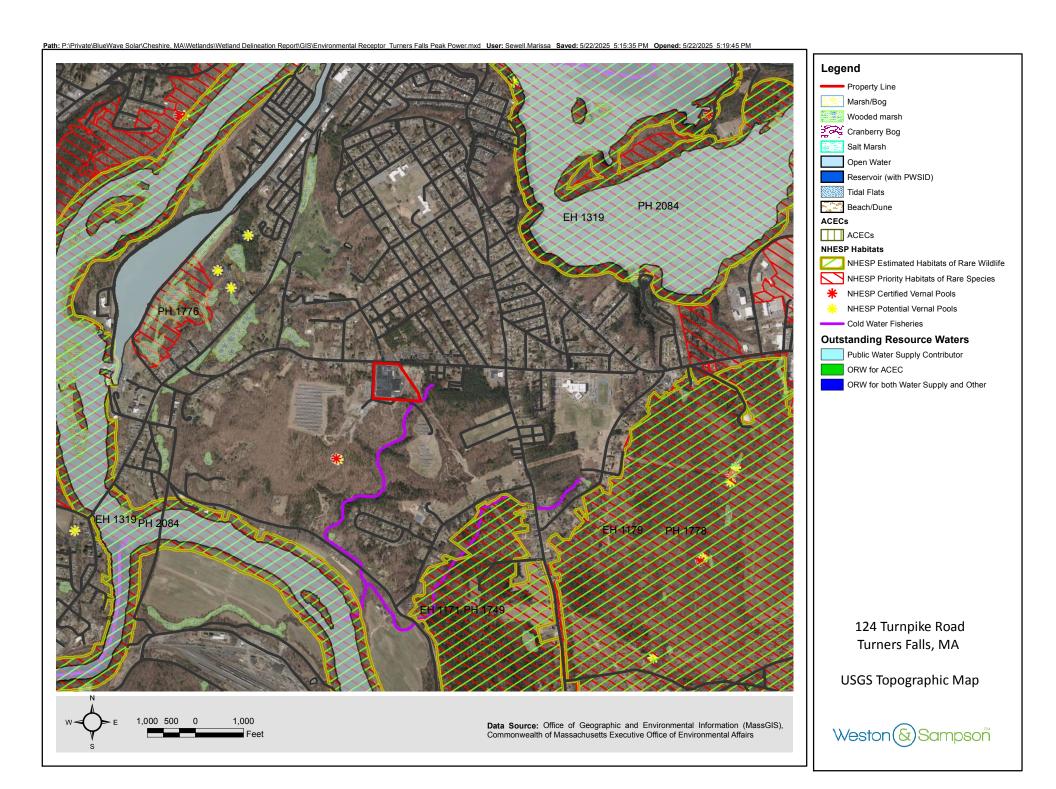
Attachment A - Figures

Property Line

124 Turnpike Road Turners Falls, MA

USGS Topographic Map







Attachment B - Wetland Delineation Report



westonandsampson.com

55 Walkers Brook Drive, Suite 100 Reading, MA 01867 tel: 978.532.1900

Wetland Delineation Report



April 2025

Turners Falls, Massachusetts Project # ENG25-0360

124 Turnpike Road Turners Falls, MA

Wetland Delineation Conducted By: Devin Herrick, CWS on 4/18/2025

Delineation Report Reviewed By: Rhianna Sommers, PWS



Wetland Delineation Report

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Wetland Delineation Report

1.0 SITE DESCRIPTION

On April 18th, 2025, the presence of wetland resources was investigated near 124 Turnpike Road in Turners Falls, MA. This investigation area is located adjacent to residential neighborhoods and commercial properties. Please see Figure 1 (Wetlands Field Map) and Figure 2 (USGS Topographic Map) of this report for the investigation area.

Wetland resource areas were assessed by a Weston & Sampson employee who is trained in the wetland delineation process using the Massachusetts Department of Environmental Protection (MassDEP) and the US Army Corps of Engineers methodology. No wetland resource areas were identified within the investigation area. Two non-jurisdictional stormwater wetlands were observed.

2.0 DELINEATION OF WETLAND RESOURCES

2.1 Site Observations

A Weston & Sampson wetland scientist, trained in the ACOE Wetland Delineation Manual and Massachusetts Department of Environmental Protection (MassDEP) Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetland Protection Act (WPA) guidance document investigated the site for the presence of wetland resource areas. No jurisdictional wetland resource areas were identified within the investigation area.

See Appendix A for site photographs.

2.2 Wetland Delineation Methodology

A wetland delineation assessment was conducted in accordance with the Massachusetts Wetland Protection Act Regulations (310 CMR 10.55(2)(c)), Massachusetts Department of Environmental Protection (MassDEP) Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands (Second Edition, September 2022), and ACOE Wetland Manual (Technical Report Y-87-1).

The bordering vegetated wetlands (BVW) delineation methodology includes the characterization of vegetation, hydrologic conditions, and soil in both wetland and upland areas to identify the transitional area, which is used as the wetland limit.

Vegetation, hydrology and soils are assessed in both wetland and upland areas to accurately delineate the wetland limits at each site. The percentage of vegetative species was estimated by creating sample plots. Sample plot radius for trees, saplings, shrubs, groundcover and woody vine strata was 30', 15', 15', 5' and 30', respectively. After creating the sample plot areas, the percent basal area coverage of each species within the monitoring plot was recorded. Using these field observations, the percent dominance of each species within its stratum was calculated. The 50/20 Rule was then used to determine dominance. Dominant species were considered the most abundant plant species (when ranked in descending order of abundance and cumulatively totaled) that immediately exceeds 50% of the total dominance measure (basal area) for the stratum, plus any additional species comprising 20% or more of the total dominance measure for the stratum. Once the dominant species were determined, they were treated equally to determine the presence of hydrophytic vegetation. If the number of dominant species with a Wetland Indicator Status of FAC (excluding FAC-), FACW or OBL is greater



Wetland Delineation Report

than, or equal to, the number of remaining dominant species, the area was considered a jurisdictional wetland resource area based on vegetation.

A soil sample from each wetland sample plot were also taken. Each soil sample goes to a depth of at least 12-24 inches. The soil was characterized to determine if the soil sample was considered a hydric (wetland) soil. Soil samples, including mottles, were characterized based on color using Munsell Soil-Color charts as a color reference.

The general area was then assessed for hydrologic conditions, including, but not limited to, site inundation, depth to free water, depth of soil saturation, water marks, drift lines, sediment deposits, water-stained leaves.

2.3 Stormwater Basins

Two stormwater basins were identified within the investigation area. Based on field observation, these stormwater basins appear to be currently maintained structures used for drainage purposes. If it can be shown that these basins are in fact stormwater management systems that are maintained, then the basins may be considered non-jurisdictional per 310 CMR 10.02 (2)(C) which states:

Notwithstanding the provisions of 310 CMR 10.02(1) and (2)(a) and (b), stormwater management systems designed, constructed, installed, operated, maintained, and/or improved as defined in 310 CMR 10.04 in accordance with the Stormwater Management Standards as provided in the Stormwater Management Policy (1996) or 310 CMR 10.05(6)(k) through (q) do not by themselves constitute Areas Subject to Protection under M.G.L. c. 131, § 40 or Buffer Zone provided that:

- 1. the system was designed, constructed, installed, and/or improved as defined in 310 CMR 10.04 on or after November 18, 1996; and
- 2. if the system was constructed in an Area Subject to Protection under M.G.L. c. 131, § 40 or Buffer Zone, the system was designed, constructed, and installed in accordance with all applicable provisions in 310 CMR 10.00.

GPS locations taken in the field included:

- SW A1 through SW A10 (Stormwater "A" Series)
- SW B1 through SW B3 (Stormwater "B" Series)

Based on a review of available aerial imagery, SW A is located on the investigation area property and appears to have been constructed around 1993. SW B is located on an adjacent property, GPS locations were taken along the fence at the closest accessible points within the investigation area, and appears to have been constructed around 2023.

In order to comply with 310 CMR 10.02 (2)(C), the stormwater management system needs to have been designed, constructed, installed, and/or improved as defined in 310 CMR 10.04 on or after November 18, 1996. SW A appears to have been constructed around 1993. If it is determined that this wetland cannot be classified as a "stormwater management systems" then it could be classified as an isolated vegetated wetland. The limit of SW A was determined by locating the transitional area between wetland and upland vegetation, soils and hydrologic conditions. Vegetation, hydrology and soils were assessed in the same manner as described above for identifying BVW. The Massachusetts Wetland Protection Act does not protect isolated vegetated wetlands, unless they are vernal pools or meet the criteria for Isolated Land Subject to Flooding (ILSF). Pursuant to 310 CMR 10.57(2)(b), ILSF is "an isolated depression or closed basin without an inlet or an outlet which at least once a year confines standing water to a volume of at least 1/4 acre-feet and to an average depth of at least six inches". SW A has multiple inlets in the form of culverts and had no vernal pool criteria observed during the investigation. As a result, SW A cannot be classified as ILSF or a potential vernal pool.

SW A does not meet the definition of any jurisdictional wetland resource area under the WPA.

2.4 Other Protected Areas

Weston & Sampson created environmental resources maps (see Figure 4) of the site to determine the presence of other protected areas. The data source of these map layers was the Massachusetts Geographic Information System (MassGIS). These areas included:



Wetland Delineation Report

- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Certified and Potential Vernal Pools
- Areas of Critical Environmental Concern (ACEC)
- Outstanding Resource Waters (ORW)
- Coldwater Fisheries
- Article 97 Land

Based on the MassGIS information there are no protected areas within the investigation area.

FEMA Flood Insurance Rate Maps (FIRM) were unavailable from the FEMA website. MassGIS was utilized to determine if there is a 100-year floodplain at the site. See Figure 3 for FEMA map. Based on MassGIS data the investigation areas are not located within the 100-year flood zone.

Wetland Delineation Report

3.0 SUMMARY

On April 18th, 2025, the presence of wetland resources was investigated near 124 Turnpike Road in Turners Falls, MA. No jurisdictional wetland resource areas were identified within the investigation area.

Two stormwater basins were identified at the site. SW A is located on the investigation area property and SW B is located on an adjacent property, GPS locations were taken along the fence at the closest accessible points within the investigation area.

This Wetlands Delineation Report has been reviewed and approved by a Professional Wetland Scientist (PWS).

4.0 REFERENCES

Massachusetts Department of Environmental Protection. September 2022. "Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands – Second Edition".

Massachusetts Division of Fisheries and Wildlife, Natural Heritage and Endangered Species Program. Massachusetts Natural Heritage Atlas, 13th Edition with 2017 web updates. Accessed on 4/21/2025.

Massachusetts Geographic Information System. January 2009. <u>Outstanding Resource Waters.</u> Massachusetts Department of Environmental Protection. Accessed on 4/21/2025.

Massachusetts Geographic Information System. December 2003. <u>Areas of Critical Environmental Concern</u>. Massachusetts Department of Environmental Protection. Accessed on 4/21/2025.

Newcomb, Lawrence. 1977. Newcomb's Wildflower Guide. Little, Brown and Company.

Web Soil Survey of Franklin County, Massachusetts. United States Department of Agriculture, Soil Conservation Service, in cooperation with Massachusetts Agricultural Experiment Station

United States Department of Agriculture, Natural Resources Conservation Service. 2018. Field Indicators of Hydric Soils in the United States, Version 8.2. L. M. Vasilas, G. W. Hurt, and J.F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

USACOE, January 1987, Corps of Engineers Wetlands Delineation Manuel, Wetlands Research Program Technical Report Y-87-1.

FEMA Flood Map Service Center, online at msc.fema.gov/portal Assessed on 4/21/2025. Tiner, Jr., Ralph W., 2005, Field Guide to Nontidal Wetland Identification

Tiner, Jr., Ralph W, 2009, Field Guide to Tidal Wetland Plants of the Northeastern United States and Neighboring Canada.

Wojtec, Michael, Bard – A field Guide to Trees of the Northeast.

New England Hydric Soils Technical Committee, 2019, Version 4, *Field Indicator of Identifying Hydric Soils in New England*. New England Interstate Water Pollution Control Commission, Lowell, MA.

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- Investigation Area
- Stormwater Basin
- Wetland Flags
- --- MassDOT Roads

USGS Streams

- --- Perennial Stream
- ---- Intermittent Stream
- Hydrologic Connection

DEP Wetland Areas

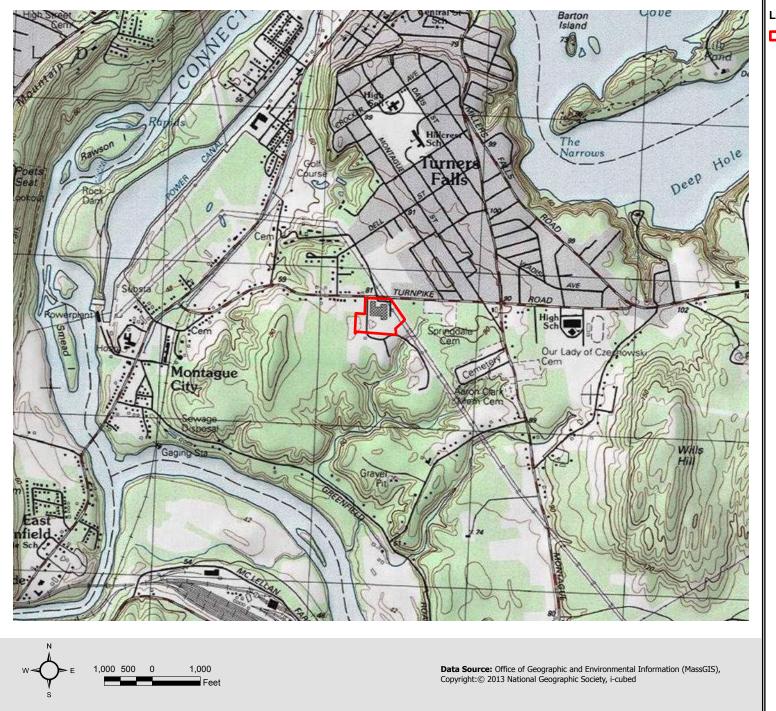
- Marsh/Bog
- Wooded marsh
- Cranberry Bog
- Salt Marsh
- Open Water
- Reservoir (with PWSID)
- Tidal Flats
- Beach/Dune

FIGURE 1

124 Turnpike Road Turners Falls, MA

Wetlands Field Map





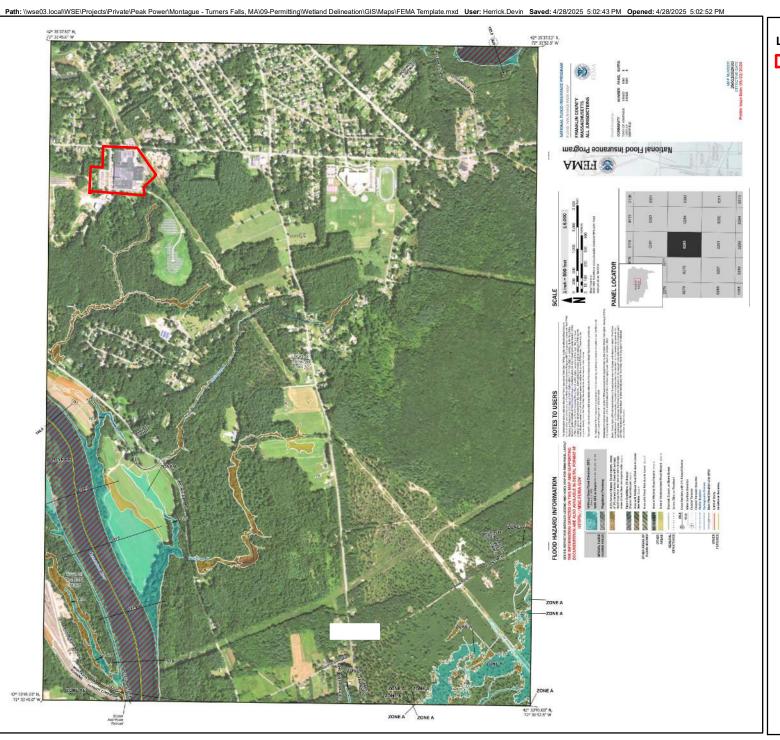
Investigation Area

FIGURE 2

124 Turnpike Road Turners Falls, MA

USGS Topographic Map





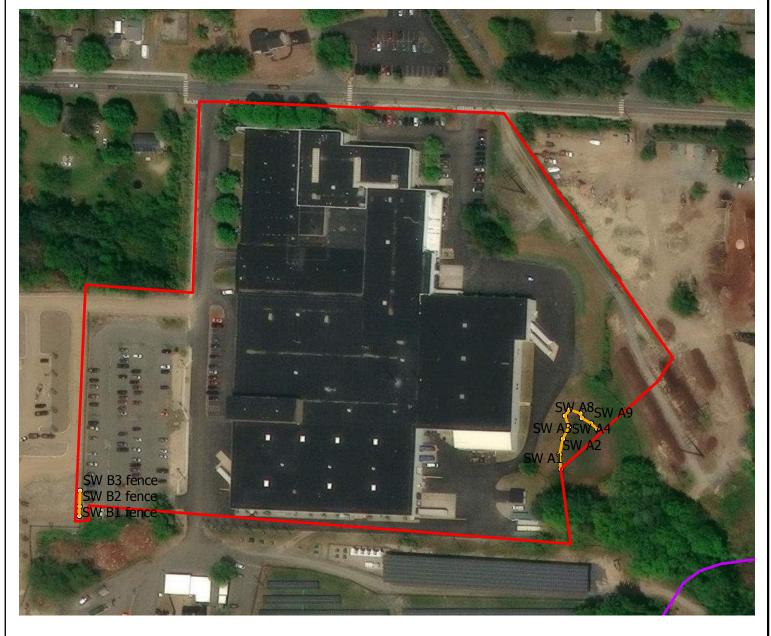
Investigation Area

FIGURE 3

124 Turnpike Road Turner Falls MA

FEMA Map





- Investigation Area
- Stormwater Basin
- O Wetland Flags
- MassDOT Roads
- Article 97 Land
- ACECs
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Priority Habitats of Rare Species
- * NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Cold Water Fisheries

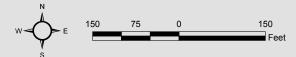
Outstanding Resource Waters

- Public Water Supply Contributor
- ORW for ACEC
- ORW for both Water Supply and Other

FIGURE 4 Turnpike Road

124 Turnpike Road Turners Falls, MA

Environmental Receptors Map



Data Source: Office of Geographic and Environmental Information (MassGIS), Maxar, Microsoft, NHESP, MassGIS



APPENDIX A

Site Photographs





Photo 1: SW-A Series facing southeast.



Photo 2: SW-B Series facing west.





Attachment C - NRCS Web Soil Survey Map & Report: Hydrologic Soils Group, FEMA FIRMette, NOAA Atlas 14 Rainfall Data



MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:12.000. Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. D Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil **Water Features** line placement. The maps do not show the small areas of A/D Streams and Canals contrasting soils that could have been shown at a more detailed Transportation B/D Rails ---Please rely on the bar scale on each map sheet for map measurements. Interstate Highways C/D Source of Map: Natural Resources Conservation Service **US Routes** Web Soil Survey URL: D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available -Local Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Soil Rating Lines Background distance and area. A projection that preserves area, such as the Aerial Photography Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. B/D Soil Survey Area: Franklin County, Massachusetts Survey Area Data: Version 19, Aug 27, 2024 Soil map units are labeled (as space allows) for map scales 1:50.000 or larger. Not rated or not available Date(s) aerial images were photographed: Oct 15, 2020—Oct 31. 2020 **Soil Rating Points** The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. B/D

Hydrologic Soil Group

	_			
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
255A	Windsor loamy sand, 0 to 3 percent slopes	А	1.6	12.6%
255B	Windsor loamy sand, 3 to 8 percent slopes	А	0.9	7.3%
651	Udorthents, smoothed	A	1.6	12.9%
652	Udorthents, refuse substratum	В	1.2	9.6%
656	Udorthents-Urban land complex	А	7.1	57.6%
Totals for Area of Inter	est	•	12.4	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



NOAA Atlas 14, Volume 10, Version 3 Location name: Turners Falls, Massachusetts, USA*

Latitude: 42.5877°, Longitude: -72.5576°

Elevation: 260 ft**

* source: ESRI Maps

** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

PF tabular | PF graphical | Maps & aerials

PF tabular

1 50-	based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹ Average recurrence interval (years)									
Duration	1	2	5	10	25	50	100	200	500	1000
5-min	0.310 (0.245-0.385)	0.363 (0.287-0.452)	0.449 (0.354-0.563)	0.521 (0.408-0.655)	0.620 (0.468-0.809)	0.696 (0.513-0.926)	0.773 (0.550-1.06)	0.854 (0.579-1.21)	0.964 (0.626-1.41)	1.05 (0.664-1.56)
10-min	0.439 (0.347-0.546)	0.514 (0.406-0.640)	0.636 (0.501-0.795)	0.738 (0.578-0.928)	0.878 (0.663-1.15)	0.986 (0.726-1.31)	1.10 (0.779-1.50)	1.21 (0.819-1.71)	1.37 (0.888-2.00)	1.49 (0.941-2.22)
15-min	0.516 (0.408-0.642)	0.605 (0.478-0.753)	0.750 (0.591-0.937)	0.869 (0.680-1.09)	1.03 (0.780-1.35)	1.16 (0.854-1.54)	1.29 (0.916-1.77)	1.42 (0.963-2.01)	1.61 (1.04-2.35)	1.75 (1.11-2.61)
30-min	0.721 (0.571-0.897)	0.845 (0.668-1.05)	1.05 (0.824-1.31)	1.21 (0.950-1.53)	1.44 (1.09-1.89)	1.62 (1.20-2.16)	1.80 (1.28-2.47)	1.99 (1.35-2.81)	2.25 (1.46-3.28)	2.45 (1.55-3.65)
60-min	0.926 (0.733-1.15)	1.08 (0.857-1.35)	1.34 (1.06-1.68)	1.56 (1.22-1.96)	1.86 (1.40-2.42)	2.08 (1.54-2.77)	2.31 (1.65-3.18)	2.56 (1.73-3.61)	2.89 (1.88-4.22)	3.15 (1.99-4.70)
2-hr	1.17 (0.929-1.44)	1.37 (1.09-1.70)	1.71 (1.36-2.12)	1.99 (1.57-2.49)	2.38 (1.81-3.09)	2.67 (1.98-3.54)	2.97 (2.14-4.08)	3.31 (2.25-4.64)	3.78 (2.46-5.49)	4.16 (2.64-6.16)
3-hr	1.33 (1.06-1.63)	1.57 (1.25-1.93)	1.96 (1.56-2.43)	2.29 (1.81-2.84)	2.74 (2.09-3.55)	3.08 (2.30-4.07)	3.43 (2.48-4.70)	3.83 (2.61-5.36)	4.41 (2.88-6.37)	4.88 (3.10-7.19)
6-hr	1.65 (1.33-2.02)	1.96 (1.58-2.40)	2.47 (1.98-3.03)	2.89 (2.30-3.57)	3.47 (2.67-4.48)	3.91 (2.94-5.15)	4.37 (3.18-5.98)	4.91 (3.36-6.82)	5.70 (3.73-8.19)	6.36 (4.06-9.32)
12-hr	2.03 (1.64-2.46)	2.42 (1.97-2.95)	3.08 (2.49-3.76)	3.62 (2.91-4.44)	4.37 (3.38-5.60)	4.92 (3.73-6.45)	5.52 (4.05-7.52)	6.22 (4.27-8.60)	7.29 (4.79-10.4)	8.20 (5.24-11.9)
24-hr	2.39 (1.96-2.88)	2.89 (2.36-3.49)	3.71 (3.02-4.49)	4.38 (3.54-5.34)	5.32 (4.15-6.79)	6.00 (4.59-7.85)	6.75 (5.01-9.19)	7.67 (5.28-10.5)	9.07 (5.98-12.9)	10.3 (6.60-14.9)
2-day	2.71 (2.24-3.25)	3.32 (2.73-3.98)	4.31 (3.53-5.18)	5.13 (4.18-6.21)	6.26 (4.93-7.96)	7.09 (5.46-9.23)	8.00 (5.99-10.9)	9.15 (6.33-12.5)	11.0 (7.24-15.4)	12.5 (8.07-18.0)
3-day	2.95 (2.44-3.52)	3.62 (2.99-4.32)	4.71 (3.88-5.65)	5.62 (4.60-6.77)	6.87 (5.43-8.71)	7.78 (6.03-10.1)	8.80 (6.62-11.9)	10.1 (6.99-13.7)	12.1 (8.04-17.1)	14.0 (9.00-19.9)
4-day	3.16 (2.63-3.77)	3.88 (3.22-4.62)	5.04 (4.17-6.03)	6.01 (4.93-7.23)	7.34 (5.82-9.29)	8.32 (6.46-10.8)	9.40 (7.09-12.7)	10.8 (7.48-14.6)	13.0 (8.62-18.2)	14.9 (9.65-21.3)
7-day	3.77 (3.16-4.47)	4.56 (3.81-5.41)	5.86 (4.87-6.96)	6.93 (5.72-8.28)	8.41 (6.70-10.6)	9.49 (7.39-12.2)	10.7 (8.08-14.4)	12.2 (8.50-16.4)	14.6 (9.70-20.3)	16.7 (10.8-23.6)
10-day	4.40 (3.69-5.19)	5.22 (4.38-6.17)	6.58 (5.49-7.79)	7.70 (6.38-9.17)	9.25 (7.38-11.5)	10.4 (8.10-13.3)	11.6 (8.78-15.5)	13.2 (9.20-17.7)	15.5 (10.4-21.5)	17.6 (11.4-24.8)
20-day	6.37 (5.39-7.46)	7.24 (6.12-8.49)	8.67 (7.29-10.2)	9.86 (8.23-11.7)	11.5 (9.20-14.1)	12.7 (9.92-16.0)	14.0 (10.5-18.2)	15.4 (10.9-20.5)	17.5 (11.7-24.1)	19.2 (12.5-26.9)
30-day	8.02 (6.81-9.35)	8.93 (7.58-10.4)	10.4 (8.80-12.2)	11.6 (9.76-13.7)	13.3 (10.7-16.3)	14.6 (11.4-18.2)	16.0 (11.9-20.5)	17.3 (12.2-22.9)	19.2 (12.9-26.2)	20.6 (13.4-28.8)
45-day	10.0 (8.57-11.7)	11.0 (9.39-12.8)	12.6 (10.7-14.7)	13.9 (11.7-16.3)	15.7 (12.7-19.1)	17.1 (13.4-21.1)	18.5 (13.8-23.5)	19.9 (14.1-26.1)	21.6 (14.6-29.4)	22.8 (14.9-31.7)
60-day	11.7 (10.0-13.6)	12.8 (10.9-14.8)	14.5 (12.3-16.8)	15.9 (13.4-18.6)	17.8 (14.4-21.5)	19.4 (15.2-23.8)	20.8 (15.6-26.3)	22.2 (15.8-29.1)	23.9 (16.2-32.4)	25.0 (16.4-34.7)

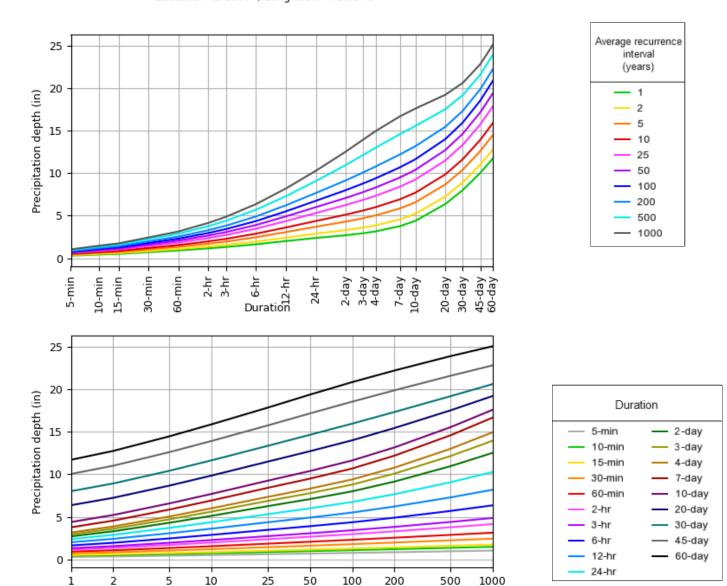
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PDS-based depth-duration-frequency (DDF) curves Latitude: 42.5877°, Longitude: -72.5576°



NOAA Atlas 14, Volume 10, Version 3

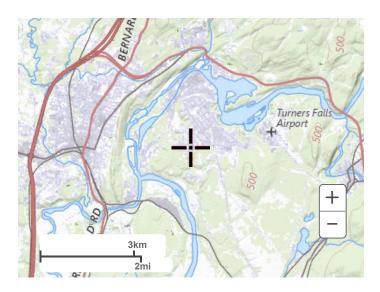
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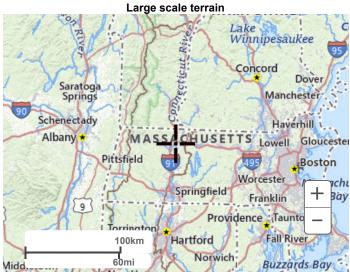
Back to Top

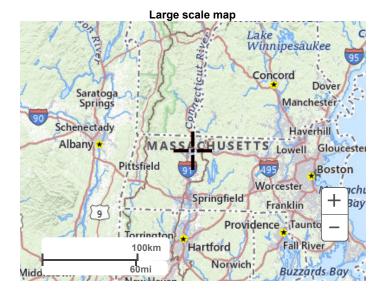
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Maps & aerials

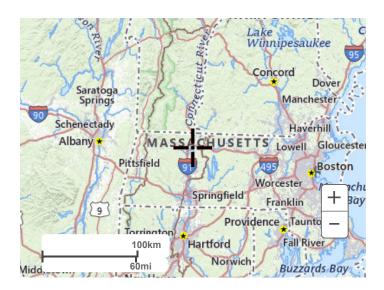
Small scale terrain







Large scale aerial



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US Department of Commerce

National Oceanic and Atmospheric Administration

National Weather Service

National Water Center

1325 East West Highway

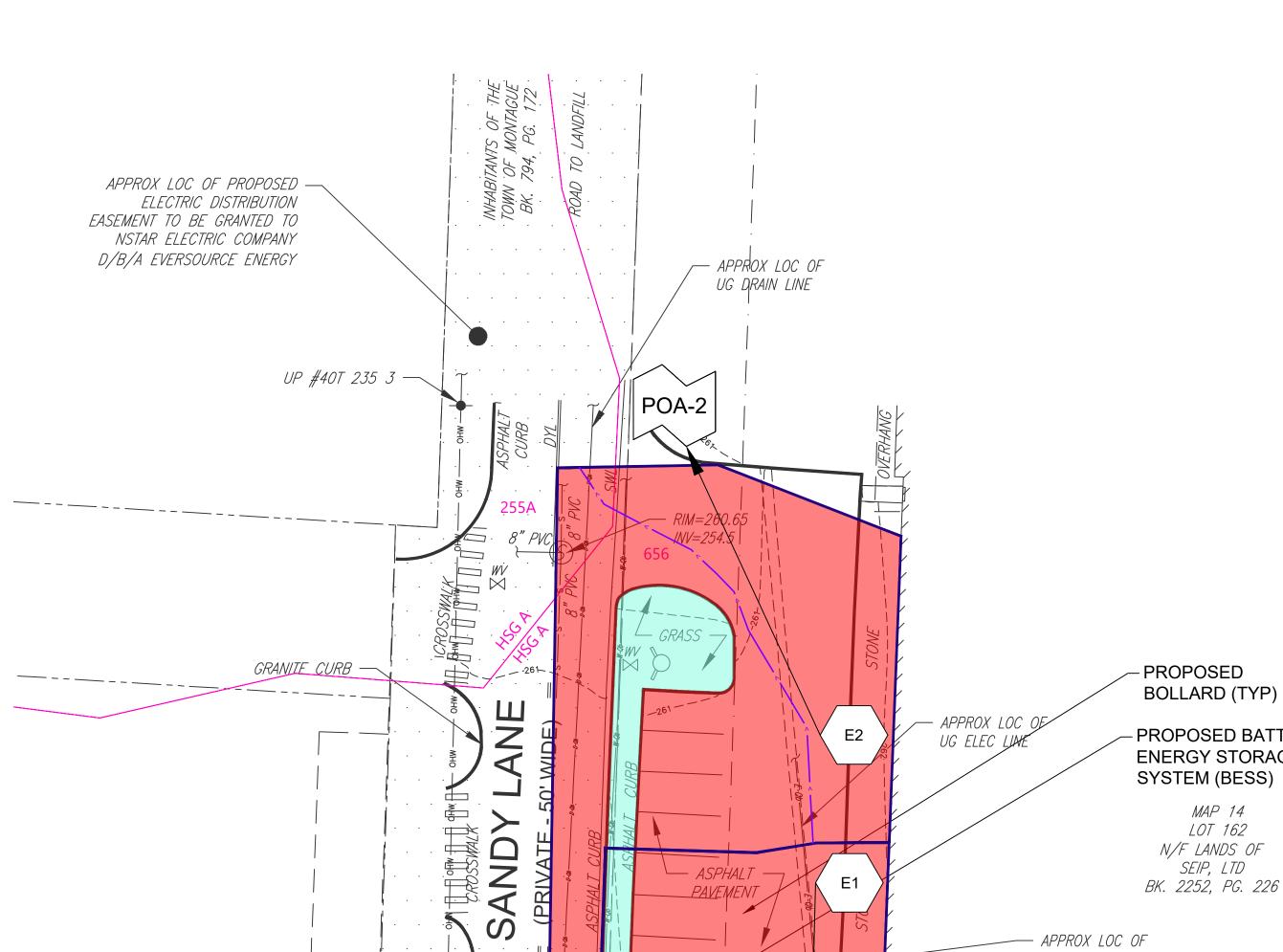
Silver Spring, MD 20910

Questions?: HDSC.Questions@noaa.gov

<u>Disclaimer</u>



Attachment D - Drainage Area Maps & HydroCAD Reports



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RIM=262.32 INV=255.5 65'-0" RIM=262.30 TOW=259.0±						,	7/C s -				
RIM=262.30 TOW=259.0±					·	! RIM=262.32 ──			K		
65'-0" RIM=262.30 TOW=259.0±									F		
TOW=259.0±								1	Ł		
					 	65'-0"	R. S.	PIM=262.30			
						ļ					
					1		('	ANN SIILLI /	/		
						_		•			

NRCS SITE SOILS

Map Unit Name

Windsor loamy sand,

0 to 3 percent slopes

HSG

Map Unit Symbol

255A

NOTES:

- 1. ELECTRICAL DESIGN, INCLUDING UTILITY POLES, PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM INFORMATION.
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- 5. ALL WORK SHALL COMPLY WITH THE MASSACHUSETTS BUILDING CODE AND TOWN OF STURBRIDGE BUILDING REQUIREMENTS.

LEGEND: EXISTING:

— — — PROPERTY LINE

---- ABUTTER'S PROPERTY LINE

---- --- EASEMENT
----- --- EDGE OF PAVEMENT

BUILDING

---124--
EXISTING MINOR CONTOUR

APPROX. LOC. UNDERGROUND SANITARY LINE
APPROX. LOC. UNDERGROUND DRAINAGE LINE
APPROX. LOC. UNDERGROUND WATER LINE

-@b SUBSURFACE UTILITY QUALITY LEVEL B
----- DEPRESSED CURB
|||||||||||||| STORMWATER BASIN

SW A1 🛆 WETLAND FLAG WITH IDENTIFIER

❤ HYDRANT♦ FIRE DEPARTMENT CONNECTION

WWW WATER VALVE

UP

■

UTILITY POLE

SIGN

SANITARY/SEWER MANHOLEDRAINAGE/STORM MANHOLE

CATCH BASINS

PARKING SPACE COUNT

PARKING SPACE COUNT

SM. SOLID WHITE LINE

DOUBLE YELLOW LINE

POLYVINYL CHLORIDE

EOP EDGE OF PAVEMENT

BOLLARD

BOLLARD
 EVIDENCE FOUND
 TOP OF WATER
 ■ ELECTRIC METER

HYDROLOGY:

> A

POA-A

TIME OF CONCENTRATION FLOW PATH

A DRAINAGE AREA LABEL

MEADOW

MEADOW IMPERVIOUS

POINT OF ANALYSIS

NRCS SOIL BOUNDARY

NRCS MAP UNITS

WATERSHED BOUNDARY

BATTERY ENERGY STORAGE SYSTEM (BESS) DEVLOPMENT

> 124 TURNPIKE ROAD TURNERS FALLS, MA

Weston & Sampson

Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 800.SAMPSON

www.westonandsampson.com



PowerBESSCo2, LLC 444 SOMERVILLE AVE SOMERVILLE, MA 02143 TEL: (857) 895-6389 https://peakpowerenergy.com

0 05/29/2025 ISSUED FOR PERMITTING
No. Date Description

Revisions:

Seal:

sueu i oi.

PERMITTING

Scale: AS SHOWN

Issued Date: 05/29/2025

Drawn By: BRB

Reviewed By: RJB

Approved By: MRC

W&S Project No.: ENG25-0360

Drawing 1

W&S File No.:

PRE-DEVELOPMENT DRAINAGE AREA MAP

Peak Power

Sheet Number:

FIGURE 1

NOT FOR CONSTRUCTION

APPROX LOC OF PROPOSED — ELECTRIC DISTRIBUTION EASEMENT TO BE GRANTED TO NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY - APPROX LOC OF UG DRAIN LINE UP #40T 235 3 — GRANITE CURB — - PROPOSED —---BOLLARD (TYP) - APPROX LOC OF - PROPOSED BATTERY ENERGY STORAGE

NRCS SITE SOILS

Map Unit Name

Windsor loamy sand,

0 to 3 percent slopes

Udorthents, refuse substratum

POST-DEVELOPMENT TC LIST

Ground Cover

IMPERVIOUS

IMPERVIOUS

Flow Type

SHEET

HSG

Slope

1.00%

3.36%

Length (ft)

32.76

IMPERVIOUS 50 0.80%

Map Unit Symbol

255A

656

Drainage Area

P-2

	A A A A A A A A A A A A A A A A A A A	OU ELLO ENL	ENERGY STORAGE SYSTEM (BESS)
	TE - 50'		MAP 14 LOT 162 N/F LANDS OF
	PRIVATE CORP.		SEIP, LTD BK. 2252, PG. 226
<i>TBM−B N=3040898.104</i> ′			PPROX LOC OF G WATER LINE
E=371070.425'	MHO -262-		TONE
UP #235	OHM	TR	1 STORY FRAME BUILDING ANSFORMER
TBM-A N=3040877.295'	ASPHALT PAVEMENT S S S	ON ON	OLLARD (TYP)
E=371064.931']	→ No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOW	T=260.64
	° 2 · ·	POA-1	V=254.4± PTH=253.4± (P-SHELF)
UPLP #6T	W - OHW - OH	W-Ob B	
235 4	O NCH		T SACK
APPROX LOC OF PROPOSED		$\sim R/II/I/II$	PROX LOC OF WATER LINE
STORMWATER EASEMENT AREA	CROSSWALK®	DOOR	
	· · · · · · · · · · · · · · · · · · ·	- WHITE STRIPING - BLDG	
	262 72	HT=42.7'±	
	=262.32 -		
6	5'-0" RIM=262.30 TOW=259.0±		
	(NVP-SHELF)		

NOTES:

- 1. ELECTRICAL DESIGN, INCLUDING UTILITY POLES, PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM INFORMATION.
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- 5. ALL WORK SHALL COMPLY WITH THE MASSACHUSETTS BUILDING CODE AND TOWN OF STURBRIDGE BUILDING REQUIREMENTS.

LEGEND: EXISTING: — — — PROPERTY LINE ABUTTER'S PROPERTY LINE --- EASEMENT ---- EDGE OF PAVEMENT BUILDING —————— EXISTING MINOR CONTOUR ----125---- EXISTING MAJOR CONTOUR APPROX. LOC. UNDERGROUND SANITARY LINE APPROX. LOC. UNDERGROUND DRAINAGE LINE APPROX. LOC. UNDERGROUND WATER LINE SUBSURFACE UTILITY QUALITY LEVEL B DEPRESSED CURB STORMWATER BASIN WETLAND FLAG WITH IDENTIFIER SW A1 🛆 V HYDRANT FIRE DEPARTMENT CONNECTION WATER VALVE UP # UTILITY POLE SIGN SANITARY/SEWER MANHOLE DRAINAGE/STORM MANHOLE CATCH BASINS PARKING SPACE COUNT SOLID WHITE LINE DOUBLE YELLOW LINE POLYVINYL CHLORIDE **EDGE OF PAVEMENT** BOLLARD

PROPOSED:

---- LOW ----- LIMIT OF WORK

EVIDENCE FOUND TOP OF WATER ELECTRIC METER

— EC — ELECTRIC CONDUIT

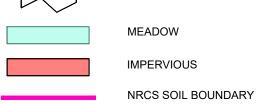
—— x—— FENCE

HYDROLOGY:

TIME OF CONCENTRATION FLOW PATH

DRAINAGE AREA LABEL

POINT OF ANALYSIS



IMPERVIOUS

NRCS MAP UNITS

WATERSHED BOUNDARY

NOT FOR CONSTRUCTION

124 TURNPIKE ROAD

TURNERS FALLS, MA

BATTERY ENERGY STORAGE SYSTEM (BESS) DEVLOPMENT

Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 800.SAMPSON

www.westonandsampson.com

Applicant: **PEAK**

> PowerBESSCo2, LLC 444 SOMERVILLE AVE SOMERVILLE, MA 02143 TEL: (857) 895-6389 https://peakpowerenergy.com

ISSUED FOR PERMITTING 0 05/29/2025

PERMITTING

AS SHOWN Issued Date: 05/29/2025 Reviewed By:

Approved By: W&S Project No.: ENG25-0360 W&S File No.: Peak Power

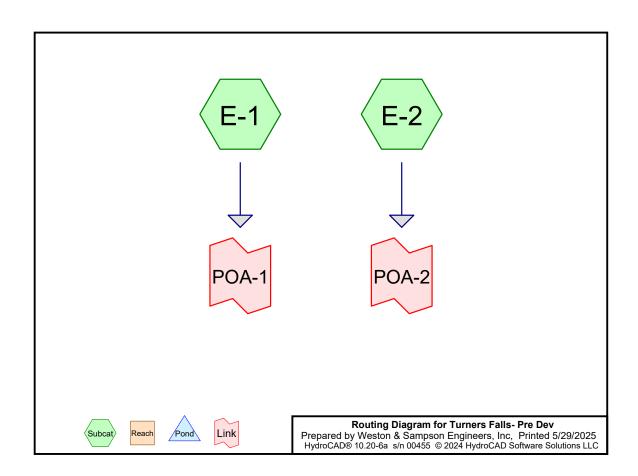
POST-DEVELOPMENT DRAINAGE

AREA MAP

Sheet Number:

FIGURE 2

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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-yr	Type III 24-hr		Default	24.00	1	2.89	2
2	10-yr	Type III 24-hr		Default	24.00	1	4.38	2
3	25-yr	Type III 24-hr		Default	24.00	1	5.32	2
4	100-yr	Type III 24-hr		Default	24.00	1	6.75	2

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Page 3

Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.033	30	Meadow, non-grazed, HSG A (E-1, E-2)
0.373	98	Paved parking, HSG A (E-1, E-2)
0.407	92	TOTAL AREA

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Page 4

Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.407	HSG A	E-1, E-2
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	
0.407		TOTAL AREA

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Ground Covers (all nodes)

	HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers
_	0.033	0.000	0.000	0.000	0.000	0.033	Meadow, non-grazed	E-1, E-2
	0.373	0.000	0.000	0.000	0.000	0.373	Paved parking	E-1, E-2
	0.407	0.000	0.000	0.000	0.000	0.407	TOTAL AREA	

Turners Falls- Pre Dev

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Summary for Subcatchment E-1:

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 2.15" Routed to Link POA-1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=2.89"

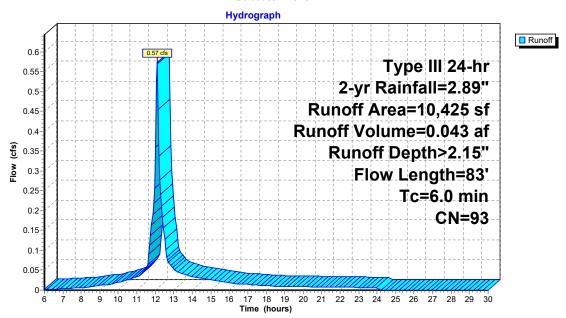
	Α	rea (sf)	CN E	Description									
-		713	_										
		9,712			ing, HSG A								
_		10.425	93 V	1 5									
		713			/ious Area								
		9,712	g	3.16% lm	pervious Ar	ea							
	-		01										
	Tc	Length	Slope	Velocity		Description							
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
	1.0	50	0.0100	0.86		Sheet Flow,							
						Smooth surfaces n= 0.011 P2= 2.89"							
	0.1	33	0.0336	3.72		Shallow Concentrated Flow,							
						Paved Kv= 20.3 fps							
_	4.4	- 00	T-4-1 1			T 0.0							

1.1 83 Total, Increased to minimum Tc = 6.0 min

Turners Falls- Pre Dev

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Subcatchment E-1:



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Type III 24-hr 2-yr Rainfall=2.89" Printed 5/29/2025 Page 8

Summary for Subcatchment E-2:

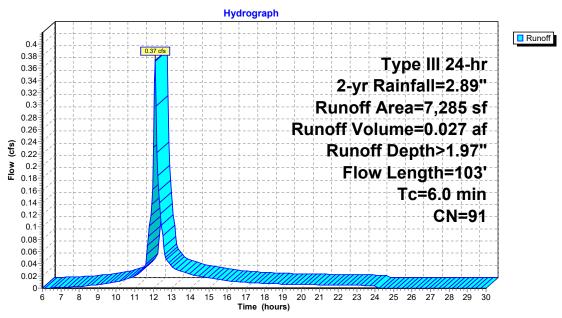
Runoff = 0.37 cfs @ 12.09 hrs, Volume= Routed to Link POA-2 :

0.027 af, Depth> 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=2.89"

A	rea (sf)	CN [Description								
	729	30 M	Meadow, non-grazed, HSG A								
	6,556	98 F	Paved parking, HSG A								
	7,285	91 \	Veighted A	eighted Average							
	729	1	10.01% Pervious Area								
	6,556	3	89.99% Impervious Area								
Tc	Length	Slope	Velocity		Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.1	50	0.0080	0.79		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.4	53	0.0132	2.33		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
1.5	103	Total,	Total, Increased to minimum Tc = 6.0 min								

Subcatchment E-2:



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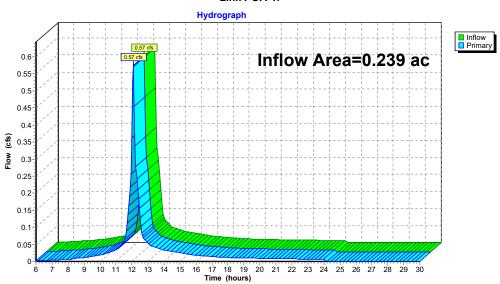
Summary for Link POA-1:

Inflow Area = 0.239 ac, 93.16% Impervious, Inflow Depth > 2.15" for 2-yr event

0.57 cfs @ 12.09 hrs, Volume= 0.57 cfs @ 12.09 hrs, Volume= Inflow 0.043 af

0.043 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs



Turners Falls- Pre Dev

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Summary for Link POA-2:

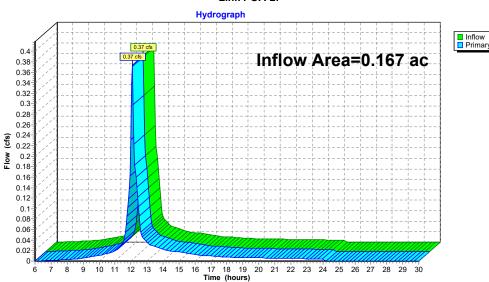
0.167 ac, 89.99% Impervious, Inflow Depth > 1.97" for 2-yr event 0.37 cfs @ 12.09 hrs, Volume= 0.027 af Inflow Area =

Inflow

0.37 cfs @ 12.09 hrs, Volume= 0.37 cfs @ 12.09 hrs, Volume= Primary 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-2:



Turners Falls- Pre Dev Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC Type III 24-hr 10-yr Rainfall=4.38" Printed 5/29/2025 Page 12

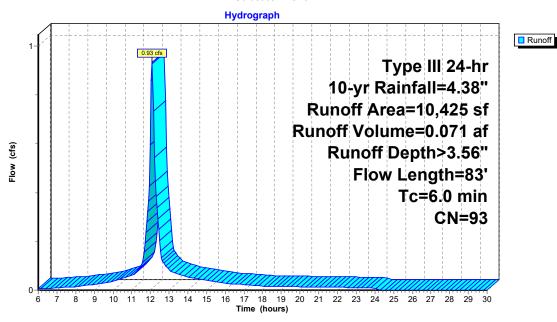
Summary for Subcatchment E-1:

Runoff = 0.93 cfs @ 12.09 hrs, Volume= 0.071 af, Depth> 3.56" Routed to Link POA-1:

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.38"

A	rea (sf)	CN E	escription								
	713	30 N	30 Meadow, non-grazed, HSG A								
	9,712	98 F	aved park	ing, HSG A	N Company of the Comp						
	10,425	93 V	Veighted A	verage							
	713	6	.84% Perv	ious Area							
	9,712	9	93.16% Impervious Area								
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.0	50	0.0100	0.86		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.1	33	0.0336	3.72		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
1.1	83	Total, I	ncreased t	to minimum	Tc = 6.0 min						

Subcatchment E-1:



Turners Falls- Pre Dev

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Summary for Subcatchment E-2:

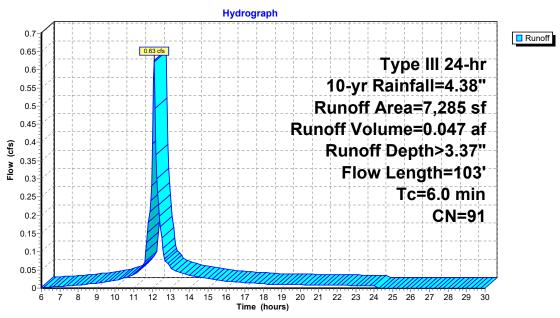
Runoff = 0.63 cfs @ 12.09 hrs, Volume= 0.047 af, Depth> 3.37" Routed to Link POA-2 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.38"

_	A	rea (sf)	CN I	Description								
		729	30 1	Meadow, non-grazed, HSG A								
		6,556	98 F	Paved park	king, HSG A							
		7,285	91 \	Neighted A	Average							
		729	•	10.01% Pe	rvious Area							
		6,556	8	89.99% Impervious Area								
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description						
	1.1	50	0.0080	0.79		Sheet Flow,						
	0.4	53	0.0132	2.33		Smooth surfaces n= 0.011 P2= 2.89" Shallow Concentrated Flow, Paved Kv= 20.3 fps						
	1.5	103	Total,	otal, Increased to minimum Tc = 6.0 min								

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Subcatchment E-2:



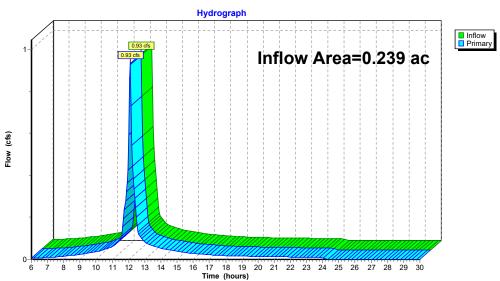
Turners Falls- Pre Dev Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC Type III 24-hr 10-yr Rainfall=4.38" Printed 5/29/2025 Page 16

Summary for Link POA-1:

0.239 ac, 93.16% Impervious, Inflow Depth > 3.56" for 10-yr event 0.93 cfs @ 12.09 hrs, Volume= 0.071 af Inflow Area = Inflow

0.93 cfs @ 12.09 hrs, Volume= 0.93 cfs @ 12.09 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs



Summary for Link POA-2:

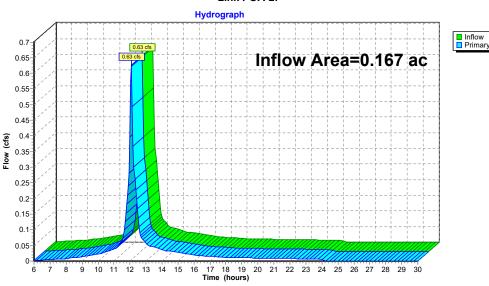
0.167 ac, 89.99% Impervious, Inflow Depth > 3.37" for 10-yr event 0.63 cfs @ 12.09 hrs, Volume= 0.047 af Inflow Area =

Inflow

0.63 cfs @ 12.09 hrs, Volume= 0.63 cfs @ 12.09 hrs, Volume= Primary 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-2:



Turners Falls- Pre Dev Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC Type III 24-hr 25-yr Rainfall=5.32" Printed 5/29/2025 Page 18

Summary for Subcatchment E-1:

Runoff 1.16 cfs @ 12.09 hrs, Volume= 0.089 af, Depth> 4.46"

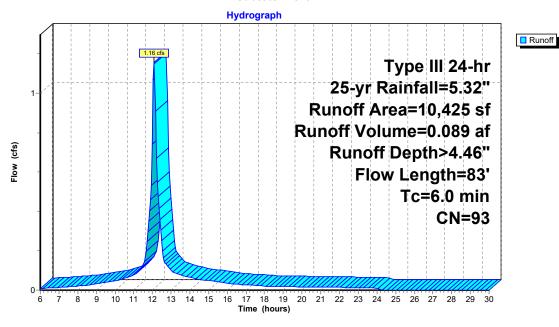
Routed to Link POA-1:

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 25-yr Rainfall=5.32"

A	rea (sf)	CN E	escription		
	713	30 N	/leadow, n	on-grazed,	HSG A
	9,712	98 F	aved park	ing, HSG A	
	10,425	93 V	Veighted A	verage	
	713	6	.84% Per	/ious Area	
	9,712	9	3.16% lm	pervious Ar	ea
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	50	0.0100	0.86		Sheet Flow,
0.1	33	0.0336	3.72		Smooth surfaces n= 0.011 P2= 2.89" Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.1	83	Total, I	ncreased	to minimum	Tc = 6.0 min

ted 5/29/2025 Page 19

Subcatchment E-1:



Turners Falls- Pre Dev

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Summary for Subcatchment E-2:

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.0

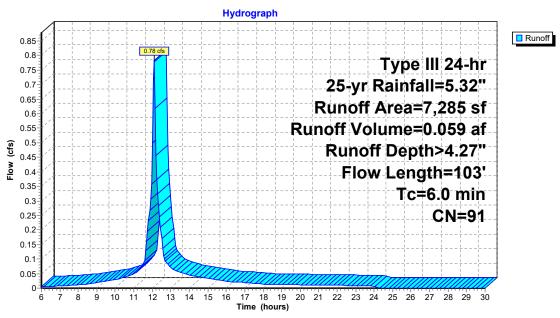
0.059 af, Depth> 4.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 25-yr Rainfall=5.32"

A	rea (sf)	CN I	Description		
	729	30 I	Meadow, n	on-grazed,	HSG A
	6,556	98 I	Paved park	ing, HSG A	· · · · · · · · · · · · · · · · · · ·
	7,285	91 \	Neighted A	verage	
	729		10.01% Pe	rvious Area	
	6,556	1	39.99% lm _l	pervious Ar	ea
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
1.1	50	0.0080	0.79		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.89"
0.4	53	0.0132	2.33		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
1.5	103	Total,	Increased	to minimum	Tc = 6.0 min

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Subcatchment E-2:



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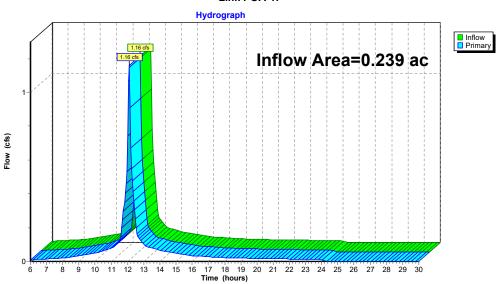
Summary for Link POA-1:

Inflow Area = 0.239 ac, 93.16% Impervious, Inflow Depth > 4.46" for 25-yr event

1.16 cfs @ 12.09 hrs, Volume= 1.16 cfs @ 12.09 hrs, Volume= Inflow 0.089 af

0.089 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs



Turners Falls- Pre Dev

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Summary for Link POA-2:

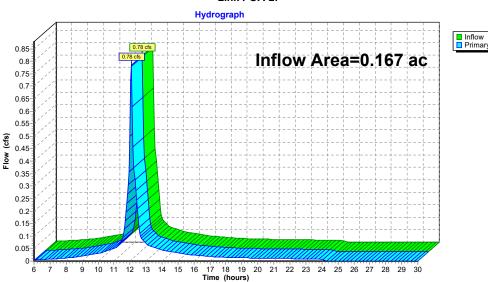
0.167 ac, 89.99% Impervious, Inflow Depth > 4.27" for 25-yr event Inflow Area =

Inflow

0.78 cfs @ 12.09 hrs, Volume= 0.78 cfs @ 12.09 hrs, Volume= Primary 0.059 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-2:



Turners Falls- Pre Dev

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Type III 24-hr 100-yr Rainfall=6.75" Printed 5/29/2025 Page 24

Summary for Subcatchment E-1:

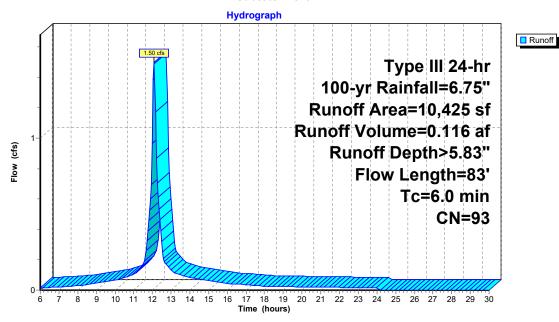
Runoff = 1.50 cfs @ 12.09 hrs, Volume= 0.116 af, Depth> 5.83"

Routed to Link POA-1:

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=6.75"

A	rea (sf)	CN E	Description								
	713	30 N	leadow, n	eadow, non-grazed, HSG A							
	9,712	98 F	aved park	ing, HSG A							
	10,425	93 V	Veighted A	verage							
	713	6	.84% Perv	ious Area							
	9,712	g	3.16% Imp	pervious Ar	ea						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	2000, p. 101						
1.0	50	0.0100	0.86		Sheet Flow,						
0.1	33	0.0336	3.72		Smooth surfaces n= 0.011 P2= 2.89" Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
1.1	83	Total, I	ncreased t	o minimum	Tc = 6.0 min						

Subcatchment E-1:



Turners Falls- Pre Dev

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Summary for Subcatchment E-2:

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.079

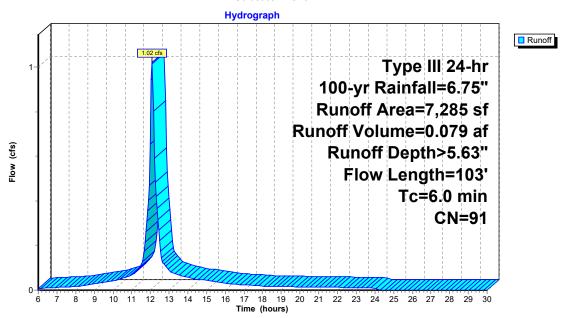
0.079 af, Depth> 5.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=6.75"

A	rea (sf)	CN I	Description								
	729	30 I	Иeadow, n	eadow, non-grazed, HSG A							
	6,556	98 I	Paved park	ing, HSG A							
	7,285	91 \	Neighted A	verage							
	729		10.01% Pe	rvious Area							
	6,556	1	39.99% Im _l	pervious Ar	ea						
Tc	Length	Slope		Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.1	50	0.0080	0.79		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.4	53	0.0132	2.33		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
1.5	103	Total,	Increased	to minimum	Tc = 6.0 min						

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Subcatchment E-2:



Turners Falls- Pre Dev

Type III 24-hr 100-yr Rainfall=6.75" Printed 5/29/2025

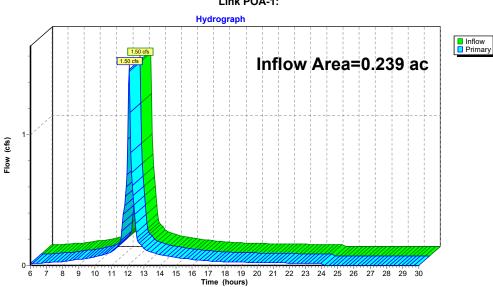
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Summary for Link POA-1:

Inflow Area = 0.239 ac, 93.16% Impervious, Inflow Depth > 5.83" for 100-yr event 1.50 cfs @ 12.09 hrs, Volume= 1.50 cfs @ 12.09 hrs, Volume= 0.116 af 0.116 af, Atten= 0%, Lag= 0.0 min Inflow Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs



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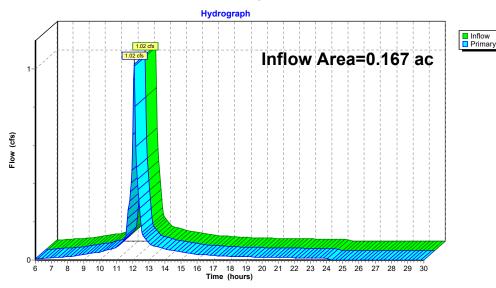
Summary for Link POA-2:

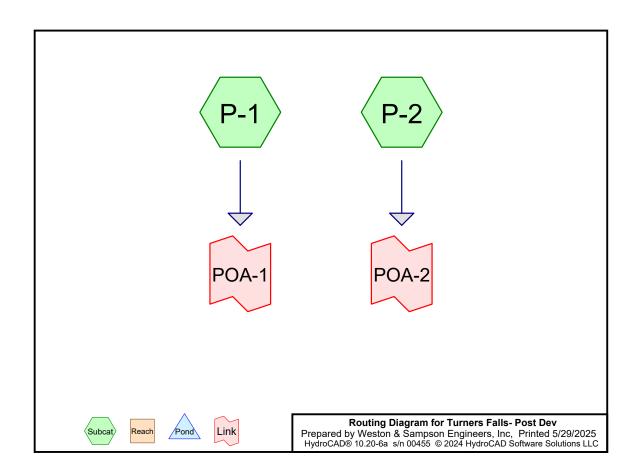
0.167 ac, 89.99% Impervious, Inflow Depth > 5.63" for 100-yr event 1.02 cfs @ 12.09 hrs, Volume= 0.079 af 1.02 cfs @ 12.09 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min Inflow Area =

Inflow

Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs





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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-yr	Type III 24-hr		Default	24.00	1	2.89	2
2	10-yr	Type III 24-hr		Default	24.00	1	4.38	2
3	25-yr	Type III 24-hr		Default	24.00	1	5.32	2
4	100-yr	Type III 24-hr		Default	24.00	1	6.75	2

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Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.033	30	Meadow, non-grazed, HSG A (P-1, P-2)
0.373	98	Paved parking, HSG A (P-1, P-2)
0.000	98	Unconnected pavement, HSG A (P-1)
0.407	93	TOTAL AREA

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Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.407	HSG A	P-1, P-2
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	
0.407		TOTAL AREA

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Ground Covers (all nodes)

HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment
(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers
0.033	0.000	0.000	0.000	0.000	0.033	Meadow, non-grazed	P-1, P-2
0.373	0.000	0.000	0.000	0.000	0.373	Paved parking	P-1, P-2
0.000	0.000	0.000	0.000	0.000	0.000	Unconnected pavement	P-1
0.407	0.000	0.000	0.000	0.000	0.407	TOTAL AREA	

Turners Falls- Post Dev

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Summary for Subcatchment P-1:

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 2.15" Routed to Link POA-1 :

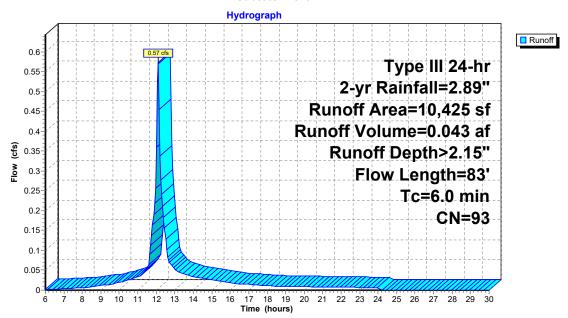
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=2.89"

A	rea (sf)	CN I	Description	scription							
	699	30	Meadow, n	adow, non-grazed, HSG A							
	9,712	98 F	Paved park	ing, HSG A	A.						
	14	98 l	Jnconnect	ed paveme	nt, HSG A						
•	10,425	93 \	Neighted A	verage							
	699	6	6.71% Per	ious Area							
	9,726	(93.29% Imp	pervious Ar	ea						
	14	().14% Unc	onnected							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.0	50	0.0100	0.86		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.1	33	0.0336	3.72		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
1.1	83	Total,	Increased	to minimum	Tc = 6.0 min						

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Subcatchment P-1:



Turners Falls- Post Dev

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Summary for Subcatchment P-2:

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 0.027 af, Depth> 1.97" Routed to Link POA-2 :

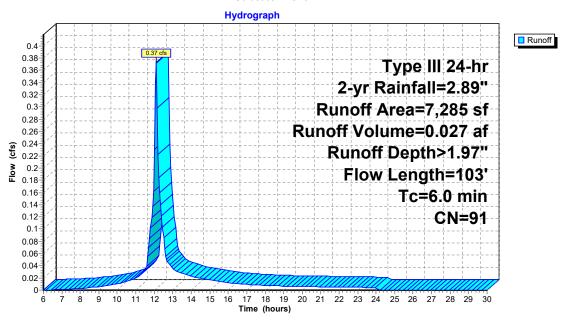
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=2.89"

A	rea (sf)	CN E	escription		
	729	30 N	/leadow, n	on-grazed,	HSG A
	6,556	98 F	Paved park	ing, HSG A	·
	7,285	91 V	Veighted A	verage	
	729	1	0.01% Pe	rvious Area	
	6,556	8	9.99% Imp	pervious Ar	ea
Tc	Length	Slope	Velocity		Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
1.1	50	0.0080	0.79		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.89"
0.4	53	0.0132	2.33		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
1.5	103	Total, I	ncreased	to minimum	Tc = 6.0 min

Turners Falls- Post Dev

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Subcatchment P-2:



Turners Falls- Post Dev

Type III 24-hr 2-yr Rainfall=2.89" Printed 5/29/2025 Page 10

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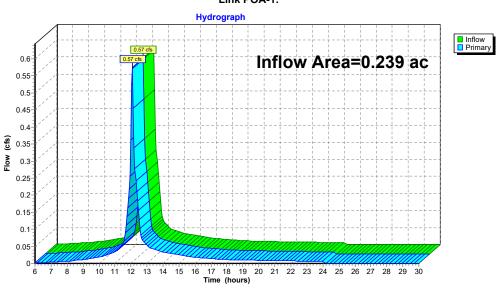
Summary for Link POA-1:

Inflow Area = 0.239 ac, 93.29% Impervious, Inflow Depth > 2.15" for 2-yr event

0.57 cfs @ 12.09 hrs, Volume= 0.57 cfs @ 12.09 hrs, Volume= Inflow 0.043 af

0.043 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs



Turners Falls- Post Dev

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Summary for Link POA-2:

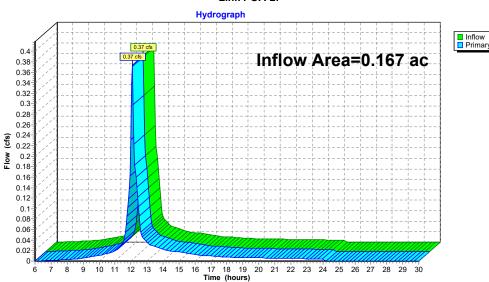
0.167 ac, 89.99% Impervious, Inflow Depth > 1.97" for 2-yr event 0.37 cfs @ 12.09 hrs, Volume= 0.027 af Inflow Area =

Inflow

0.37 cfs @ 12.09 hrs, Volume= 0.37 cfs @ 12.09 hrs, Volume= Primary 0.027 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-2:



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Type III 24-hr 10-yr Rainfall=4.38" Printed 5/29/2025 Page 12

Summary for Subcatchment P-1:

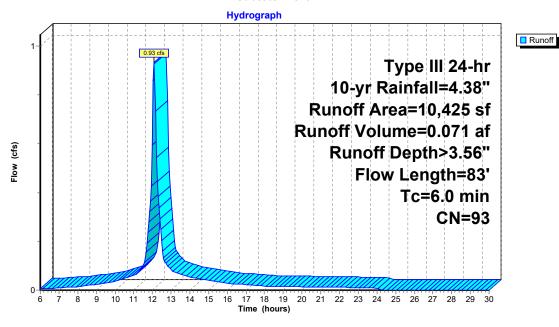
Runoff 0.93 cfs @ 12.09 hrs, Volume= 0.071 af, Depth> 3.56"

Routed to Link POA-1:

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.38"

A	rea (sf)	CN [escription									
	699	30 N	/leadow, n	eadow, non-grazed, HSG A								
	9,712	98 F	aved park	ing, HSG A								
	14	98 l	Jnconnect	ed pavemei	nt, HSG A							
	10,425	93 V	Veighted A	verage								
	699	6	.71% Per	/ious Area								
	9,726	ç	3.29% Im	pervious Ar	ea							
	14	(.14% Unc	onnected								
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
1.0	50	0.0100	0.86		Sheet Flow,							
					Smooth surfaces n= 0.011 P2= 2.89"							
0.1	33	0.0336	3.72		Shallow Concentrated Flow,							
					Paved Kv= 20.3 fps							
1.1	83	Total, I	I, Increased to minimum Tc = 6.0 min									

Subcatchment P-1:



Turners Falls- Post Dev

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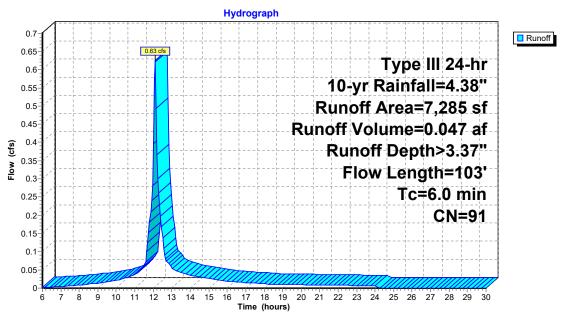
Summary for Subcatchment P-2:

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 0.047 af, Depth> 3.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.38"

	Area (sf)	CN E	Description								
	729	30 N	/leadow, n	eadow, non-grazed, HSG A							
	6,556	98 F	Paved park	ing, HSG A							
	7,285	91 V	Veighted A	verage							
	729	1	0.01% Pe	rvious Area							
	6,556	8	9.99% Imp	pervious Ar	ea						
To	Length	Slope	Velocity		Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.1	50	0.0080	0.79		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.4	53	0.0132	2.33		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
1.5	103	Total, I	ncreased	to minimum	Tc = 6.0 min						

Subcatchment P-2:



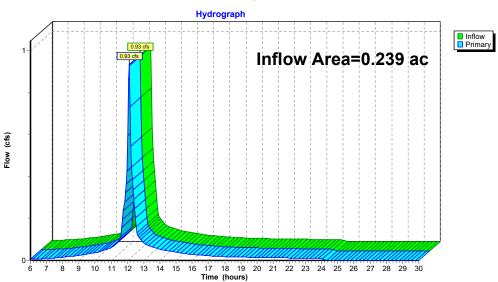
Turners Falls- Post Dev Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC Type III 24-hr 10-yr Rainfall=4.38" Printed 5/29/2025 Page 16

Summary for Link POA-1:

0.239 ac, 93.29% Impervious, Inflow Depth > 3.56" for 10-yr event 0.93 cfs @ 12.09 hrs, Volume= 0.071 af Inflow Area = 0.93 cfs @ 12.09 hrs, Volume= 0.93 cfs @ 12.09 hrs, Volume= Inflow

0.071 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs



Turners Falls- Post Dev

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Summary for Link POA-2:

 0.167 ac, 89.99% Impervious, Inflow Depth > 3.37" for 10-yr event

 0.63 cfs @ 12.09 hrs, Volume= 0.047 af

 0.63 cfs @ 12.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.047 af

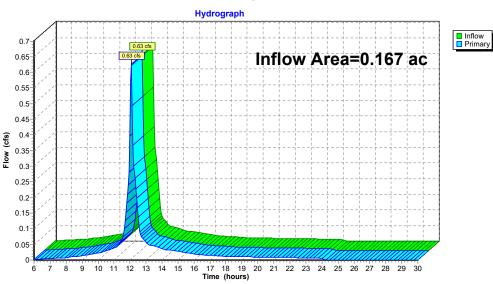
 Inflow Area =

Inflow

Primary 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-2:



Turners Falls- Post Dev Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC Type III 24-hr 25-yr Rainfall=5.32" Printed 5/29/2025 Page 18

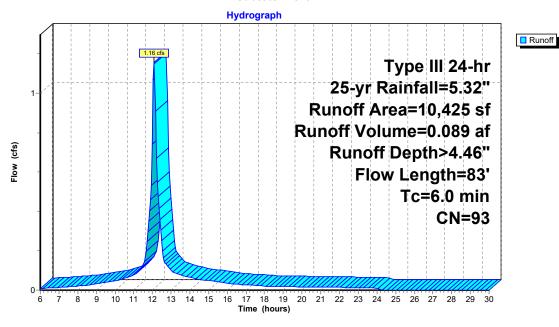
Summary for Subcatchment P-1:

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 0.089 af, Depth> 4.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 25-yr Rainfall=5.32"

A	rea (sf)	CN	Description								
	699	30	Meadow, non-grazed, HSG A								
	9,712	98	Paved parking, HSG A								
	14	98	Unconnected pavement, HSG A								
	10,425	425 93 Weighted Average									
	699 6.71% Pervious Area										
	9,726		93.29% Impervious Area								
	14		0.14% Unconnected								
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.0	50	0.0100	0.86		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.1	33	0.0336	3.72		Shallow Concentrated Flow.						
					Paved Kv= 20.3 fps						
1.1	83	Total,	al, Increased to minimum Tc = 6.0 min								

Subcatchment P-1:



Turners Falls- Post Dev

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Summary for Subcatchment P-2:

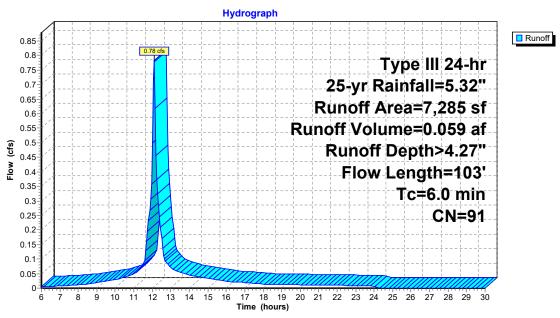
Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.059 af, Depth> 4.27" Routed to Link POA-2 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 25-yr Rainfall=5.32"

	A	rea (sf)	CN [Description								
		729	30 M	Meadow, non-grazed, HSG A								
		6,556	98 F	Paved parking, HSG A								
		7,285	91 \	Weighted Average								
		729	1	10.01% Pervious Area								
		6,556	3	89.99% Impervious Area								
	Тс	Length	Slope			Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
	1.1	50	0.0080	0.79		Sheet Flow,						
						Smooth surfaces n= 0.011 P2= 2.89"						
	0.4	53	0.0132	2.33		Shallow Concentrated Flow,						
						Paved Kv= 20.3 fps						
	1.5	103	Total,	Total, Increased to minimum Tc = 6.0 min								

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Subcatchment P-2:



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Type III 24-hr 25-yr Rainfall=5.32" Printed 5/29/2025 Page 22

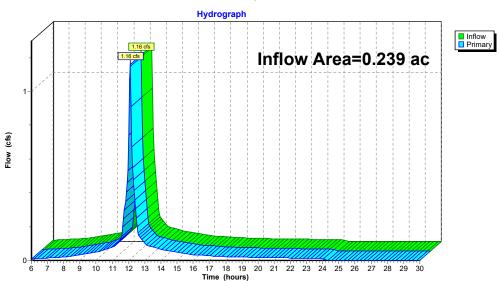
Summary for Link POA-1:

Inflow Area = 0.239 ac, 93.29% Impervious, Inflow Depth > 4.46" for 25-yr event

1.16 cfs @ 12.09 hrs, Volume= 1.16 cfs @ 12.09 hrs, Volume= Inflow 0.089 af

0.089 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs



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Turners Falls- Post Dev

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Summary for Link POA-2:

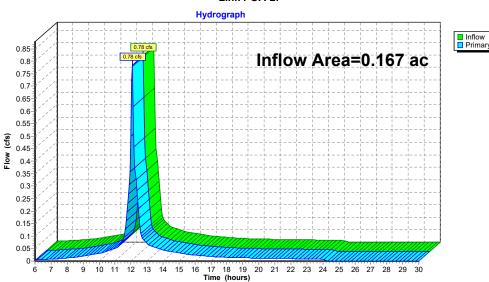
0.167 ac, 89.99% Impervious, Inflow Depth > 4.27" for 25-yr event Inflow Area =

Inflow

0.78 cfs @ 12.09 hrs, Volume= 0.78 cfs @ 12.09 hrs, Volume= Primary 0.059 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-2:



Turners Falls- Post Dev Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC

Type III 24-hr 100-yr Rainfall=6.75" Printed 5/29/2025 Page 24

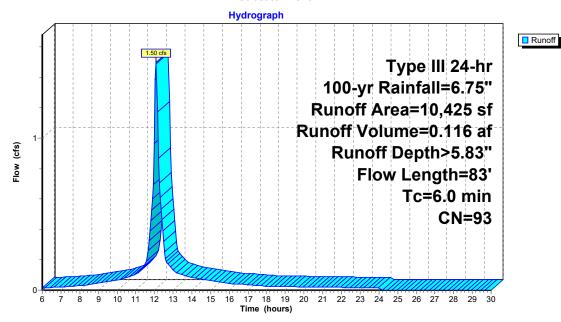
Summary for Subcatchment P-1:

Runoff = 1.50 cfs @ 12.09 hrs, Volume= 0.116 af, Depth> 5.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=6.75"

A	rea (sf)	CN	Description								
	699	30	Meadow, non-grazed, HSG A								
	9,712	98	Paved park	ing, HSG A							
	14	98	Unconnected pavement, HSG A								
	10,425	93	Neighted A	verage							
	699	(6.71% Perv	ious Area							
	9,726		93.29% Imp	ea							
	14		0.14% Unconnected								
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.0	50	0.0100	0.86		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.1	33	0.0336	3.72		Shallow Concentrated Flow.						
					Paved Kv= 20.3 fps						
1.1	83	Total,	Total, Increased to minimum Tc = 6.0 min								

Subcatchment P-1:



Turners Falls- Post Dev

Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC Type III 24-hr 100-yr Rainfall=6.75" Printed 5/29/2025 Page 26

Summary for Subcatchment P-2:

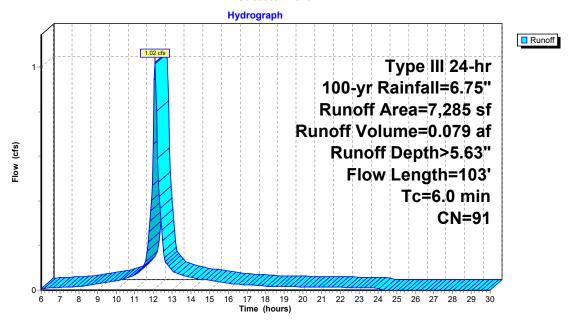
Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.079 af, Depth> 5.63" Routed to Link POA-2 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=6.75"

	rea (sf)	CN E	escription								
	729	30 N	30 Meadow, non-grazed, HSG A								
	6,556	98 F	Paved parking, HSG A								
	7,285	91 V	91 Weighted Average								
	729	1	10.01% Pervious Area								
	6,556	8	89.99% Impervious Area								
Tc	Length	Slope	Velocity		Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.1	50	0.0080	0.79		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.89"						
0.4	53	0.0132	2.33		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
1.5	103	Total, I	ncreased	to minimum	Tc = 6.0 min						

ed 5/29/2025 Page 27

Subcatchment P-2:



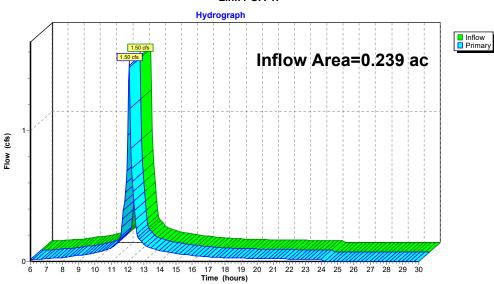
Turners Falls- Post Dev

Prepared by Weston & Sampson Engineers, Inc HydroCAD® 10.20-6a s/n 00455 © 2024 HydroCAD Software Solutions LLC Type III 24-hr 100-yr Rainfall=6.75" Printed 5/29/2025 Page 28

Summary for Link POA-1:

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-1:



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Summary for Link POA-2:

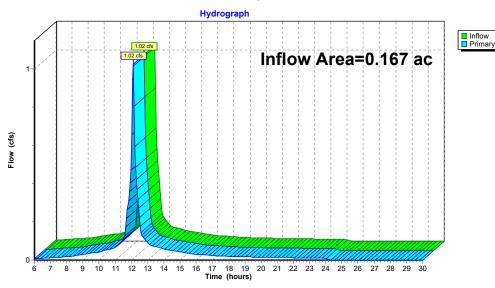
Inflow Area =

Inflow

Primary

Primary outflow = Inflow, Time Span= 6.00-30.00 hrs, dt= 0.05 hrs

Link POA-2:





Attachment E - Long Term Pollution Prevention Plan

Long Term Pollution Prevention Plan

To meet the requirements of Standard 4 of the Massachusetts Stormwater Handbook, this Long Term Pollution Prevention Plan is provided to identify the proper procedures and practices for source control and pollution prevention.

Storage and Handling of Oil and other Hazardous Materials

There will be no hazardous materials stored or handled onsite with the exception of fuel for construction equipment. Fuel will be stored in approved storage containers.

Operation and Maintenance of Stormwater Control Structures

As there are no proposed permanent stormwater best management practices included with the project, an Operation and Maintenance plan was not included.

Landscaping

The landscaped areas will be maintained by the owner. There is no intent to use herbicides or pesticides for this project, nor will they be stored on site.

Septic System

There will be no septic system or wastewater produced on site as part of the project.

Snow Management

Following construction, the BESS will be monitored remotely, and routine site visits will be performed 1-2 times per year. Snow removal will be performed as needed along in the vicinity of the equipment pad area for clear access through the gate. Salt and/or sand will not be stored on-site.

Non-Hazardous Waste Management/Good Housekeeping Practices

All non-hazardous waste is to be stored in designated trash or recycling containers onsite for periodic collection by the local trash collector, or Contractor during construction. Following construction all non-hazardous waste should not be stored onsite. PowerBESSCo2, LLC maintenance staff should inspect the site during maintenance visits, if trash is observed it should be collected and removed from the site.

Prohibition of Illicit Discharges

Illicit discharges to the on-site stormwater management system are strictly prohibited. Illicit discharges are defined as any direct or indirect non-stormwater discharge to the on-site stormwater system. There are no illicit discharges associated with the project.

Contact Information/Responsible Parties

Owner/Operator:
PowerBESSCo2, LLC
444 Somerville Ave
Somerville, MA 02143





Attachment F - Construction Period Pollution and Erosion and Sedimentation Control Plan

CONSTRUCTION PERIOD POLLUTION PREVENTION AND FROSION AND SEDIMENTATION CONTROL PLAN

SECTION 1: Introduction

The project applicant proposes construction of a Battery Energy Storage System with associated electrical equipment.

As part of this project, this "Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan" has been created to ensure that no further disturbance to the nearby locations is created during the project.

SECTION 2: Construction Period Pollution Prevention Measures

Best Management Practices (BMPs) will be utilized as Construction Period Pollution Prevention Measures to reduce potential pollutants and prevent any off-site discharge. The objectives of the BMPs for construction activity are to minimize the disturbed areas, stabilize any disturbed areas, control the site perimeter, and retain sediment. Both erosion and sedimentation controls and non-stormwater best management measures will be used to minimize site disturbance and ensure compliance with the performance standards of the Wetlands Protection Act and Stormwater Standards. Measures will be taken to minimize the area disturbed by construction activities to reduce the potential for soil erosion and stormwater pollution problems. In addition, good housekeeping measures will be followed for the day-to-day operation of the construction site under the control of the contractor to minimize the impact of construction. This section describes the control practices that will be in place during construction activities. Recommended control practices will comply with the standards set in the MassDEP Stormwater Policy Handbook.

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

To minimize disturbed areas, work will be completed within well-defined work limits. These work limits are shown on the project plans. The Contractor will not disturb native vegetation in the undisturbed off-site areas. The Contractor will be responsible to make sure that their workers and any subcontractors know the proper work limits and do not extend their work into the undisturbed areas. The protective measures are described in more detail in the following sections.

2.2 Control Stormwater Flowing onto and through the Project

The perimeter of construction areas will be lined with sediment barriers. The barriers will be inspected at least once every 7 calendar days, or every 14 calendar days and within 24 hours of a storm event of 0.25 inches or greater, and accumulated silt will be removed as needed.

2.3 Stabilize Soils

The proposed project is located within an existing paved parking area. There is no proposed grading associated with the project.



CONSTRUCTION PERIOD POLLUTION PREVENTION AND FROSION AND SEDIMENTATION CONTROL PLAN

2.4 Proper Storage and Cover of Any Stockpiles

The location of the Contractor's storage areas for equipment and/or materials should be upon cleared portions of the job site or areas to be cleared as a part of this project, within the defined limits of work.

Adequate measures for erosion and sediment control such as the placement of sediment barriers around the downstream perimeter of stockpiles will be employed to protect any downstream areas from siltation.

2.5 Perimeter Controls and Sediment Barriers

Not applicable, the proposed project is within an existing paved parking area.

2.6 Storm Drain Inlet Protection

Silt sack inlet protection will be used for the storm drain(s) within the project area.

2.7 Retain Sediment On-Site

The Contractor will be responsible for monitoring erosion control measures. Whenever necessary, the Contractor will replace silt sacks that have been silted up during construction. Inspections must be documented using the attached Monitoring Form.

2.8 Material Handling and Waste Management

Materials stored on-site will be stored in a neat, orderly manner in appropriate containers. Materials will be kept in their original containers with the original manufacturer's label. Substances will not be mixed with one another unless recommended by the manufacturer.

Waste materials will be collected and stored in a securely lidded metal container from a licensed management company. The waste and any construction debris from the site will be hauled off-site and disposed of properly. The contractor will be responsible for waste removal. Manufacturer's recommendations for proper use and disposal will be followed for materials. If portable sanitary waste facilities will be used on-site, sanitary waste will be collected from the units a minimum of once a week, by a licensed sanitary waste management contractor.

2.9 Designated Washout Areas

The Contractor shall washout equipment only in the location designated on the project plans.

2.10 Proper Equipment/Vehicle Fueling and Maintenance Practices

On-site vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the risk of leakage. To ensure that leaks from stored equipment do not contaminate the site, oil-absorbing mats will be placed under oil-containing equipment during storage. Regular fueling and service of the equipment may be performed using approved methods and with care taken to minimize chance of spills. Any petroleum products will be stored in tightly sealed containers that are clearly labeled with spill control pads/socks placed under/around their perimeters.

2.11 Equipment/Vehicle Washing

The Contractor shall washout equipment only in the location designated on the project plans.



CONSTRUCTION PERIOD POLLUTION PREVENTION AND FROSION AND SEDIMENTATION CONTROL PLAN

SECTION 3: Spill Prevention and Control Plan

The Contractor will be responsible for preventing spills in accordance with the project drawings and applicable federal, state, and local regulations. The Contractor will identify a properly trained site employee, involved with the day-to-day site operations to be the spill prevention and cleanup coordinator. The name(s) of the responsible spill personnel will be posted on-site. Each employee will be instructed that all spills are to be reported to the spill prevention and cleanup coordinator.

3.1 Spill Control Equipment

Spill control/containment equipment will be kept in the work area. Materials and equipment necessary for spill cleanup will be kept either in the work area or in an otherwise accessible on-site location. Equipment and materials will include, but not be limited to, absorbent booms/mats, brooms, dust pans, mops, rags, gloves, sand, plastic and metal containers specifically for this purpose. It is the responsibility of the Contractor to ensure the inventory will be readily accessible and maintained.

3.2 Notification

Workers will be directed to inform the on-site supervisor of a spill event. The supervisor will assess the incident and initiate proper containment and response procedures immediately upon notification. Workers should avoid direct contact with spilled materials during the containment procedures. Primary notification of a spill should be made to the local Fire Department and Police Departments. Secondary Notification will be to the certified cleanup contractor if deemed necessary by Fire and/or Police personnel. The third level of notification (within 1 hour), if required, is to the DEP or municipality's Licensed Site Professional (LSP) if the spill exceeds the reportable quantity for the material spilt. The specific cleanup contractor to be used will be identified by the Contractor prior to commencement of construction activities.

3.3 Spill Containment and Clean-Up Measures

Spills will be contained with granular sorbent material, sand, sorbent pads, booms or all of the above to prevent spreading. Certified cleanup contractors should complete spill cleanup. The material manufacturer's recommended methods for spill cleanup will be clearly posted and on-site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

3.4 Hazardous Materials Spill Report

The Contractor will report and record any spill. The spill report will present a description of the release, including the quantity and type of material, date of the spill, circumstances leading to the release, location of spill, response actions and personnel, documentation of notifications and corrective measures implemented to prevent reoccurrence.

This document does not relieve the Contractor of the Federal reporting requirements of 40 CFR Part 110, 40 CFR Part 117, 40 CFR Part 302 and the State requirements specified under the Massachusetts Contingency Plan (M.C.P) relating to spills or other releases of oils or hazardous substances. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302, occurs during a twenty-four (24) hour period, the Contractor is required to comply with the response requirements of the above mentioned regulations. Spills of oil or hazardous material in excess of the reportable quantity will be reported to the National Response Center (NRC).



SECTION 4: Contact Information/Responsible Parties

Owner/Operator:

PowerBESSCo2, LLC 444 Somerville Ave Somerville, MA 02143

Engineer:

Melinda Costello, PE Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978-532-1900

Site Inspector:

TBD

Contractor:

TBD

SECTION 5: Erosion and Sedimentation Control

Erosion and Sedimentation Control features can be found in the attached project plans which include specifications for installation and monitoring control devices.

SECTION 6: Site Development Plan

The proposed site development plan is included in the attached plans.

SECTION 7: Operation and Maintenance of Erosion Control

The erosion control measures will be installed as detailed in project plans. If there is a failure of the controls, the Contractor is required to stop work until the failure is repaired.

Periodically throughout the work, the sediment that has been deposited against the controls will be removed to ensure that the controls are working properly.

SECTION 8: Inspection Schedule

During construction, the erosion and sedimentation controls will be inspected at least once every 7 calendar days, or once every 14 calendar days and within 24 hours of the end of a storm event of 0.25 inches or greater. Once the Contractor is selected, an on-site inspector will be identified to ensure that erosion and sedimentation controls are in place and working properly. A Monitoring Form is included for use by the on-site inspector.



PowerBESSCo2, LLC

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN

Monitoring Form

Inspected E	Зу:		Date:	Time:		
YES	NO	DOES NOT APPLY	ITEM			
			Do any erosion/siltation control measures require repair or clean out to maintain adequate function?			
			Is there any evidence the and entering the wetlan	nat sediment is leaving the site ds?		
			Are any temporary soil materials located in nor	stockpiles or construction n-approved areas?		
				n traffic routes, parking, and nd supplies located in areas d for them?		
			Are storage of fuels loca	ated outside of resource areas cones? Are fuels stored in		
Specific loc	eation, curr	ent weather conditions	s, and action to be taken	:		
Other Com	ments:					
Pending th	e actions	noted above I certify	that the erosion and s	edimentation controls at the site	are i	
compliance	e with the (Construction Period Po	ollution Prevention and Er	osion and Sedimentation Control F	lan.	
Signature:			Date:			

.....

Appendix F – Project Support Letter





May 27, 2025

From: Anthony A. Fernando
Judd Wire, Inc
Facility Engineering & Maintenance Manager
124 Turnpike Road
Turners falls, MA 01376
AFernando@JuddWire.Com

To Whom It May Concern:

I'm submitting this written response in reference to our proposed Battery Energy Storage System (BESS) located at our property at Judd Wire, Inc., 124 Turnpike Road, Turners Falls, MA 01376, along Sandy Lane portion of our property.

We have no objections to the project and understand it will provide energy and environmental benefits without impacting our property or parking capacity. We utilize approximately 75% of our full parking capacity so if the battery units are placed in existing spaces it will not affect our parking capacity.

Very Respectfully,

Anthony A. Fernando (413) 676-3343 (Office)

Appendix G – Waiver Request Letter





May 29, 2025

55 Walkers Brook Drive, Suite 100, Reading, MA 01867 Tel: 978.532.1900

Ms. Maureen Pollock Planning Director Town of Montague 1 Avenue A Turners Falls, MA 01376

Re: Front Yard Setback Waiver Request BESS Development

124 Turnpike Rd, Turners Falls, MA 01376

Dear Ms. Pollock:

Weston & Sampson Engineers, Inc. (Weston & Sampson) on behalf of the Applicant, Peak Power Inc. d/b/a Power BESSCo 2, LLC, is hereby submitting this waiver request for relief from Section 5.5.1 of the Town of Montague Zoning Bylaw, dated May 7, 2022 (Town Bylaw). The Applicant proposes to develop a stand-alone battery energy storage system (BESS) at the Judd Wire, Inc. facility located at 124 Turnpike Road (the site). The property has a parcel ID of14-0-162 and is located within the Industrial Zoning District.

A private way, "Sandy Lane", understood to be recorded in public record this year as a public right of way, has been constructed along the western property line of the site. The construction of this road changed the side yard of the parcel to a front yard.

Setbacks listed in Section 5.5.1 of the Town Bylaw require a minimum front setback of 25 feet in the Industrial zoning district. The Applicant is requesting a relief of a front setback, along Sandy Lane, from 25 feet to 5 feet for the proposed BESS as shown on the proposed site plans (Appendix B of the Site Plan Review Application).

Should you have any further questions or require any additional information, please feel free to contact me by phone at (978) 532-1900 or by email at costello.melinda@wseinc.com.

Sincerely.

WESTON & SAMPSON ENGINEERS. INC.

Elinda Contello

Melinda Costello, P.E. Project Manager

cc: Dmytro Gladyshevskyi, PowerBESSCo 2, LLC