



Date: February 6, 2025

Franklin Conservation Commission
Franklin Town Hall
355 E. Central Street
Franklin, MA 02038

**RE: Notice of Intent
Solar Canopy and Ground Mount Project
50 Constitution Boulevard (Map 319, Lot 15)
ADE Project #3402.00**

Dear Commission Members:

Enclosed, please find documents relative to the above-listed Notice of Intent for the Solar Canopy and Ground Mount Project on behalf of EMC Corporation . We have provided copies of the following items for the Conservation Commission:

1. Two (2) full size and seven (7) reduced (11"x17") originals of Site Development Plans for Solar Canopy and Ground Mount Project prepared by Atlantic Design Engineers, Inc – dated 2/6/25;
2. One (1) original and one (1) copy of the Notice of Intent Application – dated 2/6/25;
3. The following check from the applicant:
 - \$972.50 Town of Franklin portion of NOI filing fee
5. Two (2) copies Stormwater Drainage Analysis – dated 2/6/25

If you have any questions or require further information, please don't hesitate to contact me at (508) 888-9282.

Sincerely,

ATLANTIC DESIGN ENGINEERS, INC.



Richard J. Tabaczynski, P.E.
Vice President

CC: MassDEP
EMC Corporation

P.O. Box 1051
Sandwich, MA 02563
(508) 888-9282 · FAX 888-5859
email: ade@atlanticcompanies.com
www.atlanticcompanies.com



**Notice of Intent
Application
For:**

**Solar Canopy and Ground Mount Project
50 Constitution Boulevard
Franklin, Massachusetts 02038**

Applicant:
EMC Corporation
171 South Street
Hopkinton, MA 01748

Prepared by:
Atlantic Design Engineers, Inc.
P.O. Box 1051
Sandwich, Massachusetts 02563

Date: February 6, 2025
Atlantic Project No. 3402.00



*NOI Application
Solar Canopy and Ground Mount Project
50 Constitution Boulevard
Franklin, MA
Date: February 6, 2025*

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2. NOI Submittal Plan Set – *Under Separate Cover*
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6. Affidavit of Service & Property Access Signature Form
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I. SITE DESCRIPTION

The proposed project locus is a ± 39 -acre lot addressed as 50 Constitution Boulevard in Franklin, Massachusetts (“Site”). The site off of Constitution Boulevard, is fully developed and is currently the location of a Dell EMC manufacturing facility. The proposed project consists of canopy and ground mounted solar arrays to be located to the south of the existing facility building. The area in which the carport array is proposed is currently a paved parking lot while the proposed ground mounted portion of the project is located over an existing grass field. The proposed project area abuts drainage basins and the Constitution Boulevard roadway to the south and west while industrial properties are located to the north and east.

The site lies within the Industrial Zoning District and does not fall within any DEP mapped surface or groundwater protection areas, or Town designated Water Resource District. The site is not located within a FEMA Flood Zone or an Estimated Habitat of Rare Wildlife or Priority Habitat of Rare Species, as mapped by the Natural Heritage and Endangered Species Program (NHESP). The site is not located within any Area of Critical Environmental Concern (ACEC).

The property has two (2) wetland systems on the site, which are located within the existing drainage basins and drainage ditch along the south-east and southern property lines of the site. The wetland resource areas on the site were delineated by Goddard Consulting, LLC in December of 2024, and subsequently surveyed by Atlantic Design Engineers, Inc. A copy of the Wetland Border Report which includes BVW Determination Forms and a statement regarding Vernal Pools are attached herein. As provided in the Wetland Border Report, it is the opinion of Goddard Consulting Inc. that none of the delineated wetlands on the subject parcel exhibit the potential for vernal pool habitat.

The topography around the proposed development is predominately flat with an existing drainage system composed of catch basin manholes and drainage pipes leading to existing on-site stormwater basins.

II. PROPOSED DEVELOPMENT

The proposed solar canopy and ground mount project is comprised of a ± 2.0 -acre ground mounted and ± 0.2 -acre canopy mounted system.

The development consists of photovoltaic solar panels, racking systems (canopy and ground mounted), inverters, transformers with associated concrete pads, and below ground utilities.

The canopy portion of the project will be situated over the existing paved parking lot whereas the ground-mounted portion of the array will be situated over an existing grassed field area. The proposed solar development will not require tree clearing, will not significantly increase measurable impervious area or changes in existing on-site drainage patterns.



*Notice of Intent Application
Solar Canopy and Ground Mount Project
50 Constitution Boulevard
Franklin, MA 02038
Date: February 6, 2025*

The ground-mounted array will also include perimeter fencing whereas the canopy mounted system is to be located over the existing parking lot.

The only impact to the 100' wetland buffer zone is the overhang of a canopy-mounted system, extending along the outer edge (80 to 100') of the buffer zone over an existing paved parking lot. There is no proposed disturbance or alteration to the ground surface or vegetation in any of the town or state designated buffer zones. All racking system foundations/piers as well as all underground utility lines and concrete electrical pads will be located outside of the buffer zone.

There will be no grading at the site and all existing stormwater features will be unaffected by the project.

Wildlife passage through the ground mounted array portion of the project will be enhanced by providing a 6-inch gap at the bottom of the security fence. There are no Vernal Pools mapped by MassGIS on Site.

A complete Stormwater Report documenting the projects compliance with the DEP Stormwater Management Standards has been provided. Erosion control measures (sediment logs or approved equal) will be in place and maintained at the proposed limit of work throughout construction, until vegetation has stabilized, to protect the on-site BVW's.

WPA FORM 3



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Franklin

City/Town

A. General Information (continued)

6. General Project Description:

Proposed ground mounted and canopy mounted solar arrays at 50 Constitution Boulevard, Franklin, MA. The project consists of a ±2.0-acre ground mounted and ±0.2-acre canopy solar facility along with, erosion control measures, transformer and electrical inverters on concrete pads and below ground electric transmission lines.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Norfolk

a. County

12002

c. Book

b. Certificate # (if registered land)

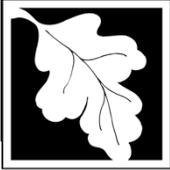
222

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands

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

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
 Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

- 8/1/2021
b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

- Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage
- Assessor's Map or right-of-way plan of site

- Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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City/Town

C. Other Applicable Standards and Requirements (cont'd)

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 – Notice of Intent
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

 MassDEP File Number

 Document Transaction Number
 Franklin

 City/Town

D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.
 Solar Canopy and Ground Mount Project for 50 Constitution Boulevard Solar Project, Franklin, MA

Atlantic Design Engineers, Inc.	Richard J. Tabaczynski, P.E.
b. Prepared By	c. Signed and Stamped by
2/6/2025	1"= 60', 1"=30'
d. Final Revision Date	e. Scale
Stormwater Drainage Analysis	2/6/2025
f. Additional Plan or Document Title	g. Date
- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

E. Fees

- 1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

3279	02/4/2025
2. Municipal Check Number	3. Check date
3278	02/4/2025
4. State Check Number	5. Check date
Zachary	Thomas
6. Payor name on check: First Name	7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

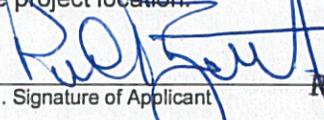
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

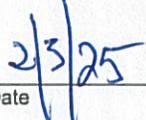
Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Franklin, MA
City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.


 Paul Fitzgerald
 Vice President
 Real Estate & Facilities


 2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A. Applicant Information

1. Location of Project:

<u>50 Constitution Boulevard</u>	<u>Franklin</u>
a. Street Address	b. City/Town
<u>3278</u>	<u>237.50</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>EMC Corporation</u>	<u>MA</u>		<u>01748</u>
c. Organization	f. State		g. Zip Code
<u>176 South Street</u>	<u>Hopkinton</u>		
d. Mailing Address	e. City/Town		
<u>(508) 435-1000</u>	<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address	

3. Property Owner (if different):

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>	<u></u>	
c. Organization	d. Mailing Address	
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
2(d) Electrical Generating Facility	1	\$500.00	\$500.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			\$500.00
Step 6/Fee Payments:			
Total Project Fee:			\$500.00
State share of filing Fee:			\$237.50
City/Town share of filing Fee:			\$262.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee less \$12.50
			c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

TOWN OF FRANKLIN APPLICATION FORMS

Town of Franklin Conservation Commission

RESOURCE AREA IMPACT SUMMARY FORM

**The Franklin Wetlands Protection Bylaw
Franklin Town Code Section 181**

Resource Area	Alteration Proposed	Mitigation Proposed
Bordering Vegetated Wetland (SF)	0	0
Bank (LF)	N/A	N/A
Land Under Water Bodies (SF)	N/A	N/A
Isolated Wetland (SF)	N/A	N/A
Vernal Pool (SF)	N/A	N/A
Buffer Zone (SF)	0	0
Riverfront (SF)	N/A	N/A
100-Year Floodplain (CF)	N/A	N/A
(SF) = Square Feet (LF) = Linear Feet (CF) = Cubic Feet Flood Storage		

Roads	_ linear feet x \$2.00	=	_____
*Drainage Structures	_ X \$10.00 each	=	_____
Wetland Resource Area Disturbed	_____ square feet x \$0.50	=	_____
Buildings	_____ X \$125 each	=	_____
All Accessory Improvements	\$100.00	=	<u>100.00</u>

2. REQUEST FOR DETERMINATION (RDA) \$100.00

3. MINOR BUFFER ZONE ACTIVITY (MBZA) \$50.00

4. ABBREVIATED NOTICE OF RESOURCE AREA DETERMINATION (ANRAD)

\$0.50/foot/resource area: = _____

5. OTHER PERMITS/SERVICES

Order of Conditions Extension	\$50.00	_____
Certificate of Compliance Request	\$50.00	_____
Certificate Re-Inspection	\$50.00	_____
Status Letter for Financial Institution	\$100.00	_____
Permit Amendment	\$100.00	_____

6. FILING FEE CALCULATION

Town Share of State Fees (See NOI Wetland Fee Transmittal Form) \$ 262.50

Local Filing Fee Calculated Above \$ 700.00

TOTAL Due Town of Franklin (Check No.1) \$ 962.50

State Share of Filing Fee (See NOI Wetland Fee Transmittal Form)

TOTAL Due DEP (Check No. 2) \$ 237.50

7. ADVERTISING FEE (Check No. 3) **TBD**

The fee will be the exact amount the newspaper charges for that specific advertisement. Once the advertisement is placed with the paper, by the Conservation Commission, the applicant will be notified of the cost and will be expected to submit a check for that exact amount, payable to the Town of Franklin, to the Conservation Department prior to the first hearing.

*Drainage structures: catch basins, manholes, leaching basins, gutter inlet or any other man-made structure (other than a pipe) for purposes of controlling drainage.

Town of Franklin Conservation Commission

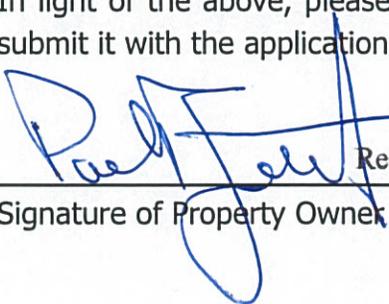
APPLICATION PROCESS SIGNATURE FORM

There are three different applications that can be submitted to undertake work in a jurisdictional area: a Notice of Intent (NOI), a Request for Determination (RDA) and a Minor Buffer Zone Activity (MBZA). All three applications have different criteria for submission and approval and the NOI and RDA are governed by both the state law and the local bylaw. The MBZA is issued under the local bylaw only.

When a potential applicant requests advice from the Conservation Agent on which application to file, the opinion of the Agent is based on the information given by the potential applicant and any other information available to the Agent, e.g. the town's GIS system. The Agent has no legal right to go onto private property at any time until after an application is filed or permission of the property owner is given.

It is important that all applicants understand that after an application is filed, additional information may come to light e.g. via a field inspection or a review of the application, that may impact the scope of the submitted application and the approval process. **Therefore, it is the ultimate responsibility of the applicant to decide which application to file.**

In light of the above, please sign below indicating an understanding of this policy and submit it with the application.



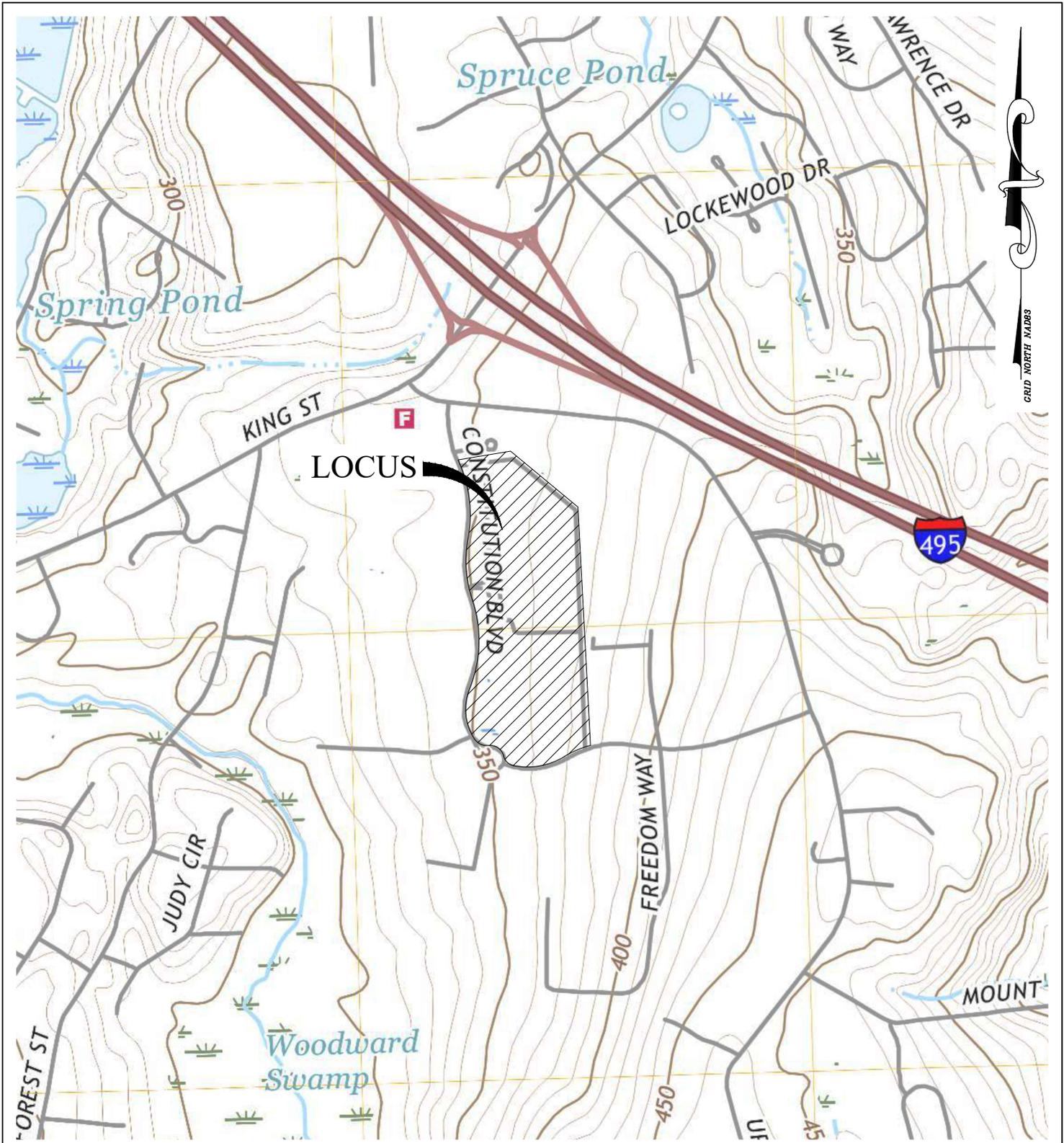
Signature of Property Owner

Paul Fitzgerald
Vice President
Real Estate & Facilities

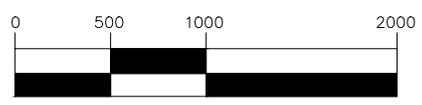


Date

MISCELLANEOUS FIGURES



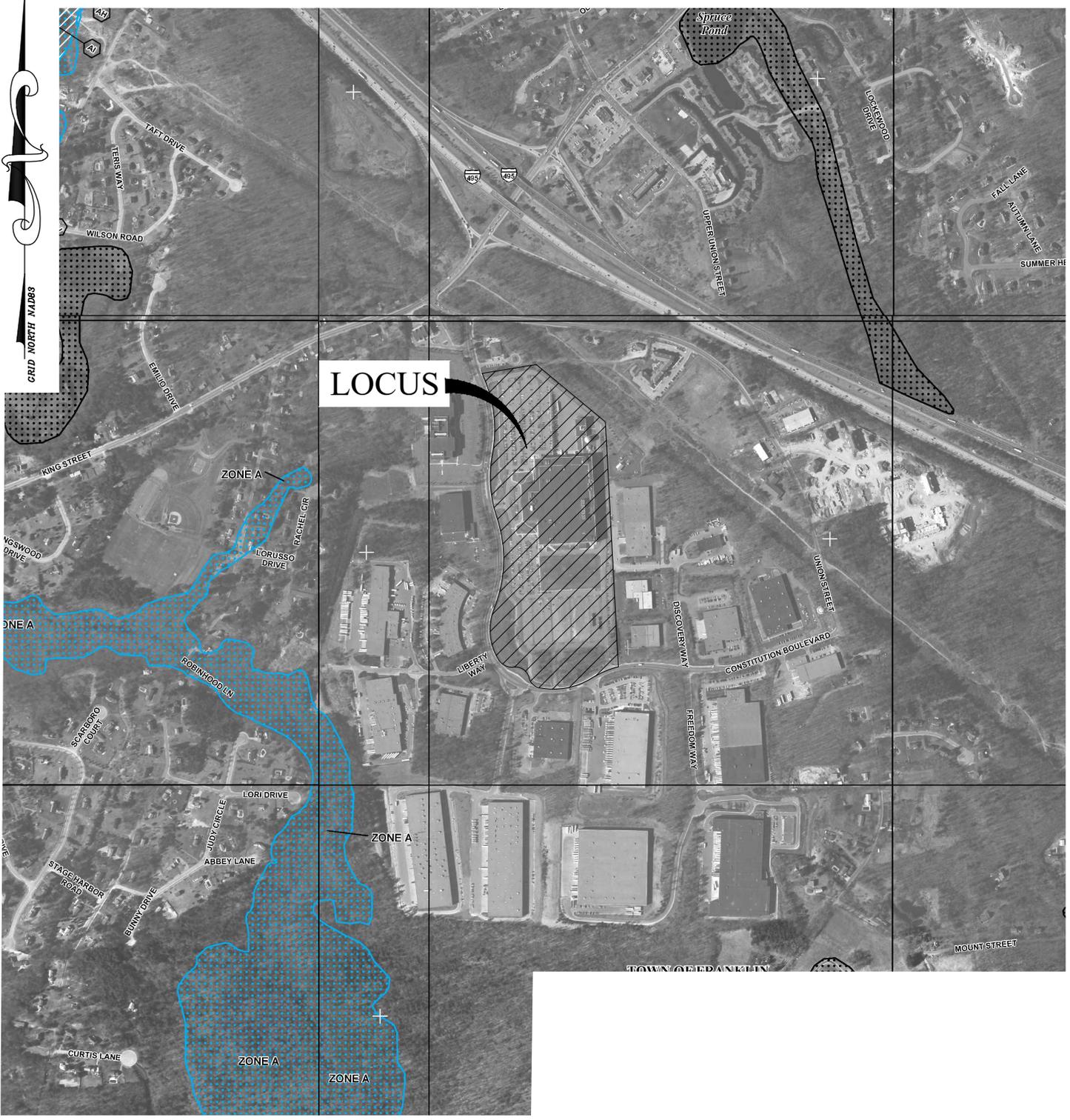
SCALE 1" = 1000'



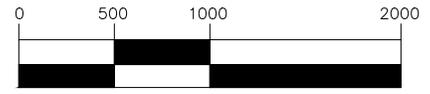
Atlantic® DESIGN ENGINEERS, INC
 P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

FILE: 3402.00-FIGURES

APPLICANT: EMC CORPORATION 176 SOUTH STREET HOPKINTON, MA 01748	FIGURE - USGS TOPO MAP FOR SOLAR CANOPY & GROUND MOUNT PROJECT DELL CAMPUS - 50 CONSTITUTION BLVD, FRANKLIN, MA FEBRUARY 6, 2025	Sheet of 1 1 JOB NUMBER 3402.00
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SCALE 1" = 1,000'



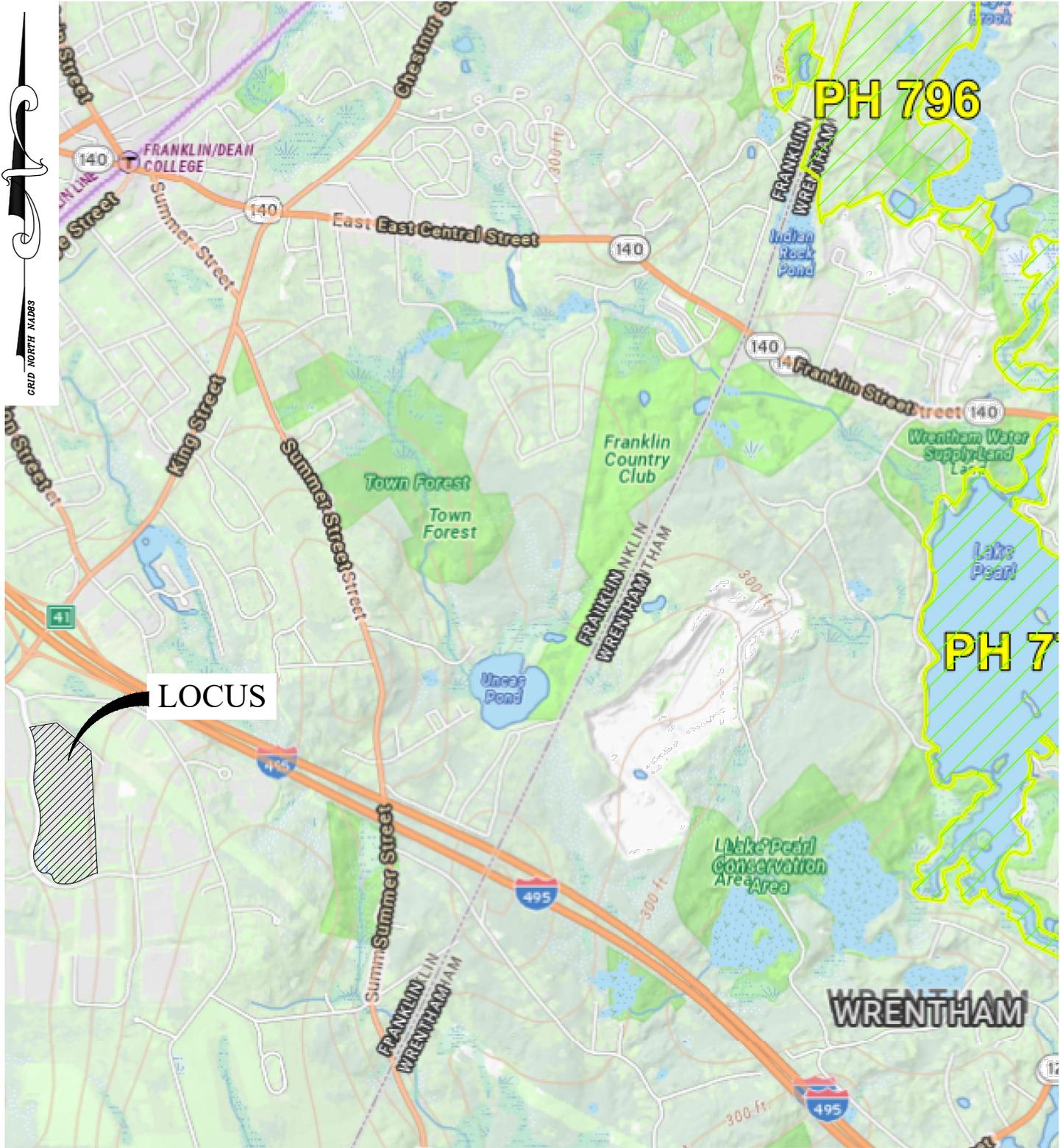
Atlantic® DESIGN ENGINEERS, INC
 P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

FILE: 3402.00-FIGURES

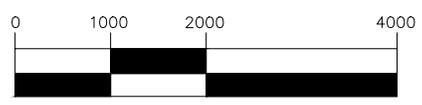
APPLICANT:
EMC CORPORATION
 176 SOUTH STREET
 HOPKINTON, MA 01748

FIGURE - FEMA LOCUS PLAN
 FOR
SOLAR CANOPY & GROUND MOUNT PROJECT
 DELL CAMPUS - 50 CONSTITUTION BLVD, FRANKLIN, MA
 FEBRUARY 6, 2025

Sheet	of
1	1
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3402.00	



SCALE 1" = 2000'



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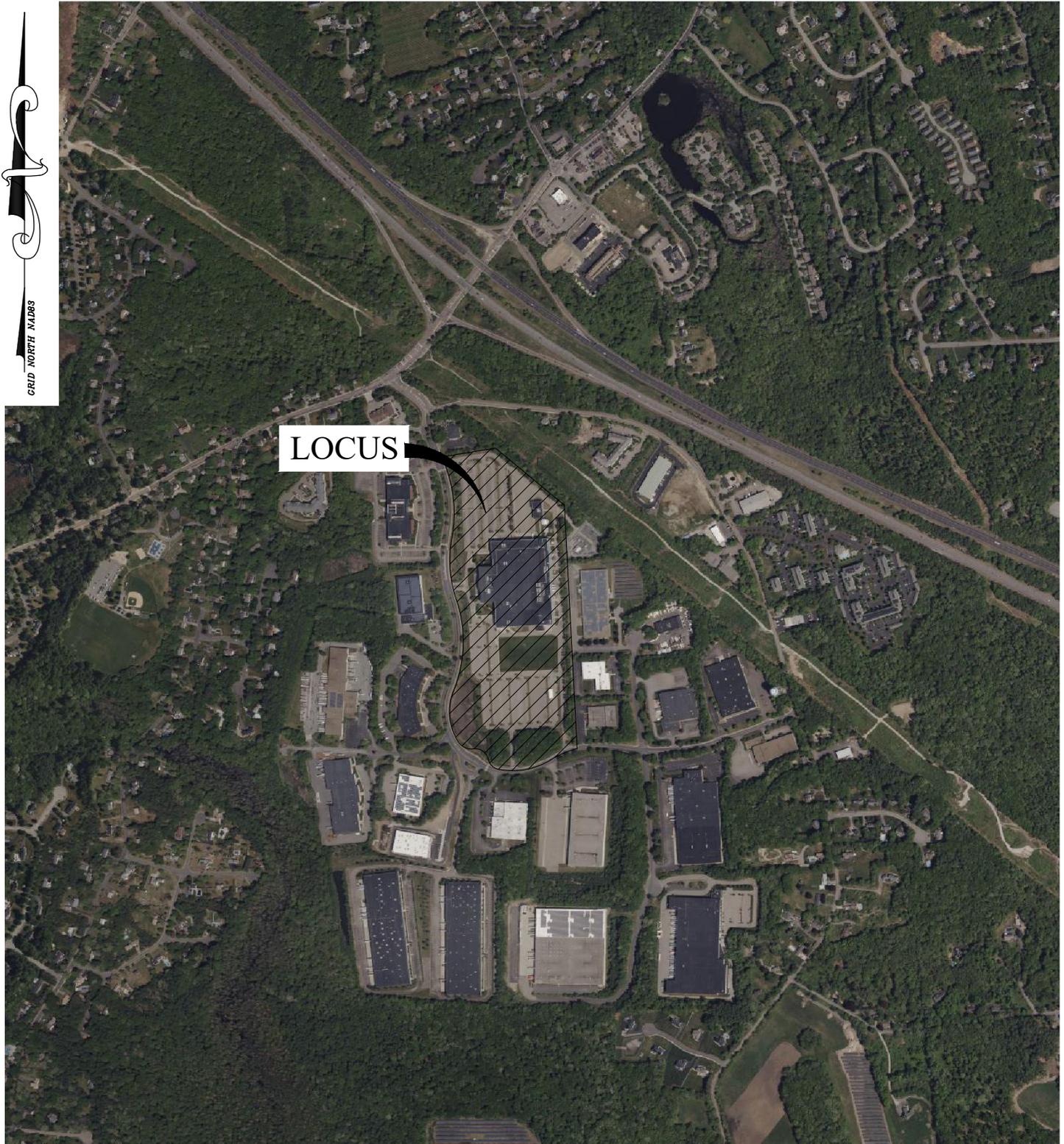
FILE: 3402.00-FIGURES

APPLICANT:
EMC CORPORATION
 176 SOUTH STREET
 HOPKINTON, MA 01748

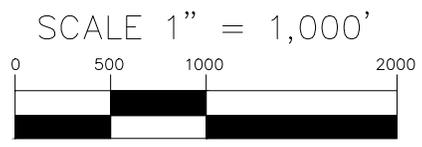
FIGURE - NHESP LOCUS PLAN
 FOR
SOLAR CANOPY & GROUND MOUNT PROJECT
 DELL CAMPUS - 50 CONSTITUTION BLVD, FRANKLIN, MA
 FEBRUARY 6, 2025

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GRID NORTH NAD83



LOCUS



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 P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

FILE: 3402.00-FIGURES

APPLICANT:
EMC CORPORATION
 176 SOUTH STREET
 HOPKINTON, MA 01748

FIGURE - AERIAL LOCUS PLAN
 FOR
SOLAR CANOPY & GROUND MOUNT PROJECT
 DELL CAMPUS - 50 CONSTITUTION BLVD, FRANKLIN, MA
 FEBRUARY 6, 2025

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1	1
JOB NUMBER	
3402.00	

WETLANDS REPORT

Wetland Border Report

Site Locus: 50 Constitution Boulevard, Franklin, MA 02038

Prepared for: Atlantic Design Engineers

Prepared by: Goddard Consulting LLC, 291 Main St, Suite 8, Northborough, MA 01532

Date: 1/20/2024

INTRODUCTION

On December 26th, 2024, the wetland resources were delineated for Atlantic Design Engineers on land on and surrounding the southern portion of the property known as 50 Constitution Boulevard, (refer to enclosed locus maps). The wetland border was flagged using the criteria in the most recent edition of The MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al and, the Franklin Wetlands Bylaw. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The titles of the attached documents are as follows:

- DEP Bordering Vegetated Wetland Determination Form
- Orthophoto of Locus Site, Goddard Consulting LLC, 12/17/2024
- NRCS Soils Survey of Locus Site, Goddard Consulting LLC, 12/17/2024
- FEMA Flood Map of Locus Site, Goddard Consulting LLC, 12/17/2024
- USGS Map of Locus Site, Goddard Consulting LLC, 12/17/2024

SUMMARY OF FINDINGS

The property known as 50 Constitution Boulevard consists of an approximately 39.3-acre commercial lot, developed and in use by Dell EMC. The property holds extensive frontage off Constitution Boulevard along the western and southern property boundaries. The property is primarily developed, consisting of expansive impervious surfaces. A large commercial office building sits in the center of the property, wrapped by existing parking lots to the North and South. The western and southern portions of the site are used for stormwater management, with a large detention basin situated in the Southwest corner of the property. A drainage swale runs along the southern property boundary, discharging into the detention basin. A small tract of undisturbed forested land sits at the southern portion of the site, situated between the southern parking lot and the drainage swale along the property boundary. The wetland delineation in December of 2024 analyzed the southern half of the locus site. The detention basin, stormwater management swale, and forested tracts of land were assessed for their jurisdictional status.

A drainage ditch enters the property at the southeastern corner of the site. The ditch continues downgradient along Constitution Boulevard, with two associated crossings used for site access. The drainage ditch connects hydrologically to the large detention basin in the southwest corner of the site, eventually discharging under Constitution Boulevard. Within the undeveloped tract of land at the southern edge of the site, a wetland system was identified with a continuous connection toward the drainage ditch below. Due to the hydrologic connections, the detention basin, forested wetland, and drainage ditch were all delineated in the field and classified as Bordering Vegetated Wetlands. The Town of Franklin regulates stormwater management systems as jurisdictional wetlands when such systems exhibit traits characteristic of wetland resource areas. The detention basin in the southwestern portion of the site is mapped as a shallow marsh wetland resource area. The edges of the basin are vegetated with native wetland species such as red maple and highbush blueberry. The interior of the basin was vegetated with cattails, consistent with a shallow marsh wetland. As such, the basin was delineated with series GC A1 – GC A93. The drainage ditch and associated forested wetland system are classified as Bank with a connected BVW system. These areas were flagged with GC B1 – GC B7 and GC C1 – GC C71. As each delineated area is hydrologically connected, the areas are categorized as Bordering Vegetated Wetlands (BVW).

Vegetation upgradient of the BVW is dominated by White Pine, and Crabapple located along a steep slope off of the existing development. Dominant vegetation within the resource area consists of Highbush Blueberry and Red Maple on the edges of the basin, and Cattails located throughout the interior of the basin.

Soils identified on the property include primarily fine sandy loams, consistent with the NRCS soil survey for the site. Within the upland sample, a topsoil with a matrix color of 10YR2/2 was found from 0-8". The topsoil was underlain by a typical upland subsoil colored to a 10YR4/3 from 8-18" before hitting a restrictive layer of rock that limited further sampling. Within the wetland soil sample, an organic topsoil colored to a 10YR 2/1 was pulled from 0-6." The mucky topsoil was underlain by a depleted sandy layer colored to a 10YR6/1 from 6-16" before hitting a restrictive layer of rock at 16" that limited further sampling.

According to the MassGIS data layers for the Natural Heritage & Endangered Species Program (NHESP), the locus site is not located within Estimated and/or Priority Habitat of Rare Wildlife. The site does not fall within an Area of Critical Environmental Concern (ACEC). No mapped certified or potential vernal pools exist on or adjacent to the site. It is the opinion of Goddard that none of the delineated wetlands on the subject parcel exhibit the potential for vernal pool habitat. The site does not fall within a mapped Outstanding Resource Water (ORW) area. Lastly, the site does not fall within any jurisdictional FEMA flood zones.

The wetlands delineated on-site are classified as Bordering Vegetated Wetlands (BVW). The MA Wetlands Protection Act and the Town of Franklin take jurisdiction over BVW resource areas. As regulated by the Wetlands Protection Act, from the edge of the delineated wetland boundary a 100-Foot Buffer Zone is cast onto the locus site. The Town of Franklin, through the local wetlands bylaw and regulations, additionally regulates a 25-Foot No Alteration Zone and a 50-Foot No Structure Zone from the edges of delineated resource areas.

Any work within these resource areas, including the 100-Foot Buffer Zone, requires a Request for Determination (RDA) or Notice of Intent (NOI) to be filed with the Franklin Conservation Commission.

DESCRIPTION OF REGULATED INLAND RESOURCE AREA

The table below provides the regulatory jurisdiction, flag numbers/colors, and wetland types and locations for the resource areas delineated.

Resource Area	Regulatory Jurisdiction	Flag Numbers and Color	Wetland Types and Locations
Bordering Vegetated Wetlands (BVW)	100-Foot Buffer Zone (State and Bylaw Jurisdictional) 25-Foot No Alteration Zone (Bylaw Jurisdictional) 50-Foot No Structure Zone (Bylaw Jurisdictional)	GC A1 – GC A93 GC B1- GC B7 GC C1 – GC C71 (Blue and Pink Wetland Flags)	Boundary of hydrologically connected Bordering Vegetated Wetlands located in the southern and southwestern portions of the site

SITE PHOTOS



Photo 1: A view of the existing commercial building and parking areas



Photo 2: A view of the topographical separation from landscaping and detention basin



Photo 3: A representative view of the large detention basin on-site



Photo 4: A typical depleted subsoil within the delineated basin



Photo 5: A representative view of the drainage swale along the southern edge of the site

Sincerely,
Goddard Consulting, LLC



Andrew Thibault, WPIT, WSA
Environmental Scientist

VEGETATION – Use both common and scientific names of plants.

Tree Stratum Plot size 30'

	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1	White Pine	Pinus strobus	FACU	10.5%	X		100.0%
2							
3							
4							
5							
6							
7							
8							
9							

10.5% =Total Cover

Shrub/Sapling Stratum Plot size 15'

	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1	White Pine	Pinus strobus	FACU	20.5%	X		30.1%
2	Crabapple	Pyrus sp.	UPL	20.5%	X		30.1%
3	Autumn Olive	Elaeagnus angustifolia	FACU	10.5%			15.4%
4	Multiflora Rose	Rosa multiflora	FACU	10.5%			15.4%
5	Highbush Blueberry	Vaccinium corymbosum	FACW	3.0%		X	4.4%
6	American Holly	Ilex opaca	FACU	3.0%			4.4%
7							
8							
9							

68.0% =Total Cover

Herb Stratum Plot size 5'

	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

0.0% =Total Cover

VEGETATION – continued.

Woody Vine Stratum Plot size <u>30'</u>							
	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1							
2							
3							
4							
				0.0%	=Total Cover		

Rapid Test:	Do all dominant species have an indicator status of OBL or FACW?		Yes		No	X
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?			
	3	0	Yes		No	X
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result		
	OBL species	0%	x1	=	0%	
	FACW species	3%	x2	=	6%	
	FAC species	0%	x3	=	0%	
	FACU species	55%	x4	=	220%	
	UPL species	21%	x5	=	103%	
	Column Totals (A)	79%		(B)	329%	
	Prevalence Index B/A=	4.18		Is the Prevalence Index ≤ 3.0?		
				Yes	No	X
Wetland vegetation criterion met?	Yes	No	X			

Definitions of Vegetation Strata

- Tree: Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub/Sapling: Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines: All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.00%
6-15 %	10.50%
15-25 %	20.50%
26-50 %	38.00%
51-75 %	63.00%
76-95 %	85.50%
96-100 %	98.00%

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		
0-8"	10YR2/2	1				FSL	
8-18"	10YR4/3	1				FSL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		Indicators for Problematic Hydric Soils	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> Polyvalue Below Surface (S8)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Thin Dark Surface (S9)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Mesic Spodic (A17)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Depleted Dark Surface (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Dark Surface (S7)		<input type="checkbox"/> Other (Include Explanation in Remarks)	

Restrictive Layer (if observed) Type: Rock Depth (inches): 18"

Remarks

Hydric Soils criterion met? Yes No X

DOWNGRADIENT

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? (If yes, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc

Wetland vegetation criterion met?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soils criterion met?	Yes <u>X</u>	No _____			
Wetlands hydrology present?	Yes <u>X</u>	No _____			
Remarks, Photo Details, Flagging, etc.: Area remains in declared drought					

HYDROLOGY

Field Observations:					
Surface Water Present?	Yes	X	No	Depth (in)	Surface
Water Table Present?	Yes	X	No	Depth (in)	Surface
Saturation Present (including capillary fringe)?	Yes	X	No	Depth (in)	Surface
Wetland Hydrology Indicators					
Reliable Indicators of Wetlands	Indicators that can be Reliable with			Indicators of the Influence of Water	
<input checked="" type="checkbox"/> Water-stained leaves	_____ Hydrological records			<input checked="" type="checkbox"/> Direct observation of inundation	
<input type="checkbox"/> Evidence of aquatic fauna	<input checked="" type="checkbox"/> Free water in a soil test hole			<input checked="" type="checkbox"/> Drainage patterns	
<input type="checkbox"/> Iron deposits	<input checked="" type="checkbox"/> Saturated soil			<input type="checkbox"/> Drift lines	
<input type="checkbox"/> Algal mats or crusts	<input checked="" type="checkbox"/> Water marks			<input type="checkbox"/> Scoured areas	
<input type="checkbox"/> Oxidized rhizospheres/pore linings	_____ Moss trim lines			<input type="checkbox"/> Sediment deposits	
<input type="checkbox"/> Thin muck surfaces	_____ Presence of reduced iron			<input type="checkbox"/> Surface soil cracks	
<input type="checkbox"/> Plants with air-filled tissue (aerenchyma)	_____ Woody plants with adventitious roots			<input type="checkbox"/> Sparsely vegetated concave surface	
<input type="checkbox"/> Plants with polymorphic leaves	_____ Trees with shallow root systems			<input checked="" type="checkbox"/> Microtopographic relief	
<input type="checkbox"/> Plants with floating leaves	_____ Woody plants with enlarged lenticels			<input checked="" type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)	
<input type="checkbox"/> Hydrogen sulfide odor					
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):					

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

Tree Stratum Plot size 30'

	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indicator?	% Dominant
1							
2							
3							
4							
5							
6							
7							
8							
9							

0.0% =Total Cover

Shrub/Sapling Stratum Plot size 15'

	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indicator?	% Dominant
1	Highbush Blueberry	Vaccinium corymbosum	FACW	20.5%	X	X	55.4%
2	Red Maple	Acer rubrum	FAC	10.5%	X	X	28.4%
3	Gray Dogwood	Cornus racemosa	FAC	3.0%		X	8.1%
4	White Pine	Pinus strobus	FACU	3.0%			8.1%
5							
6							
7							
8							
9							

37.0% =Total Cover

Herb Stratum Plot size 5'

	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indicator?	% Dominant
1	Cattail	Typha latifolia	OBL	63.0%	X	X	100.0%
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

63.0% =Total Cover

VEGETATION – continued.

Woody Vine Stratum							
Plot size <u>30'</u>							
	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indicator?	% Dominant
1							
2							
3							
4							
				0.0%	=Total Cover		

Rapid Test:	Do all dominant species have an indicator status of OBL or FACW?			Yes	X	No	
Dominance Test:	Number of dominant species	Number of dominant species that are		Do wetland indicator plants make			
	3	3		Yes	X	No	
Prevalence Index:		Total % Cover	Multiply by:	Result			
	OBL species	63%	x1	=		63%	
	FACW species	21%	x2	=		41%	
	FAC species	14%	x3	=		41%	
	FACU species	3%	x4	=		12%	
	UPL species	0%	x5	=		0%	
	Column Totals (A)	100%		(B)		157%	
	Prevalence Index	B/A=	1.57	Is the Prevalence Index ≤ 3.0?			
				Yes	X	No	
Wetland vegetation criterion met?	Yes	X	No				

Definitions of Vegetation Strata

- Tree Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub/Sapling Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines All woody vines greater than 3.3 ft. (1 m) in height

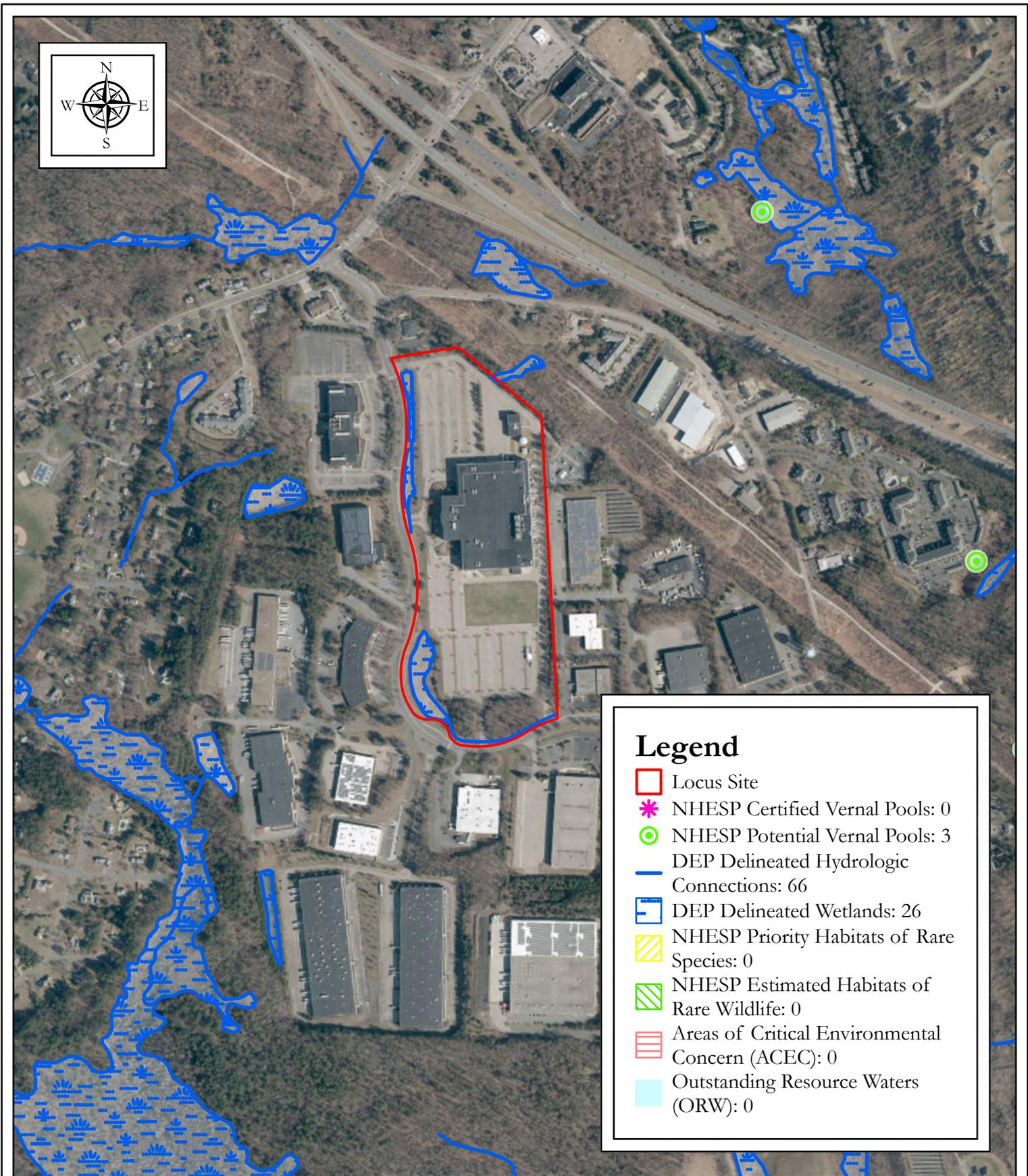
Cover Ranges	
Range	Midpoint
1-5 %	3.00%
6-15 %	10.50%
15-25 %	20.50%
26-50 %	38.00%
51-75 %	63.00%
76-95 %	85.50%
96-100 %	98.00%

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Location ²		
0-6"	10YR2/1	1					Muck	
6-16"	10YR6/1	1					Sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		Indicators for Problematic Hydric Soils	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> Polyvalue Below Surface (S8)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Thin Dark Surface (S9)	
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Mesic Spodic (A17)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Depleted Dark Surface (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Dark Surface (S7)		<input type="checkbox"/> Other (Include Explanation in Remarks)	
Restrictive Layer (if observed) Type: Gravel		Depth (inches): 16"	
Remarks			
Hydric Soils criterion met?		Yes	X No



Legend

- Locus Site
- ✱ NHESP Certified Vernal Pools: 0
- ⊙ NHESP Potential Vernal Pools: 3
- DEP Delineated Hydrologic Connections: 66
- DEP Delineated Wetlands: 26
- NHESP Priority Habitats of Rare Species: 0
- NHESP Estimated Habitats of Rare Wildlife: 0
- Areas of Critical Environmental Concern (ACEC): 0
- Outstanding Resource Waters (ORW): 0



Orthophoto of Locus Site

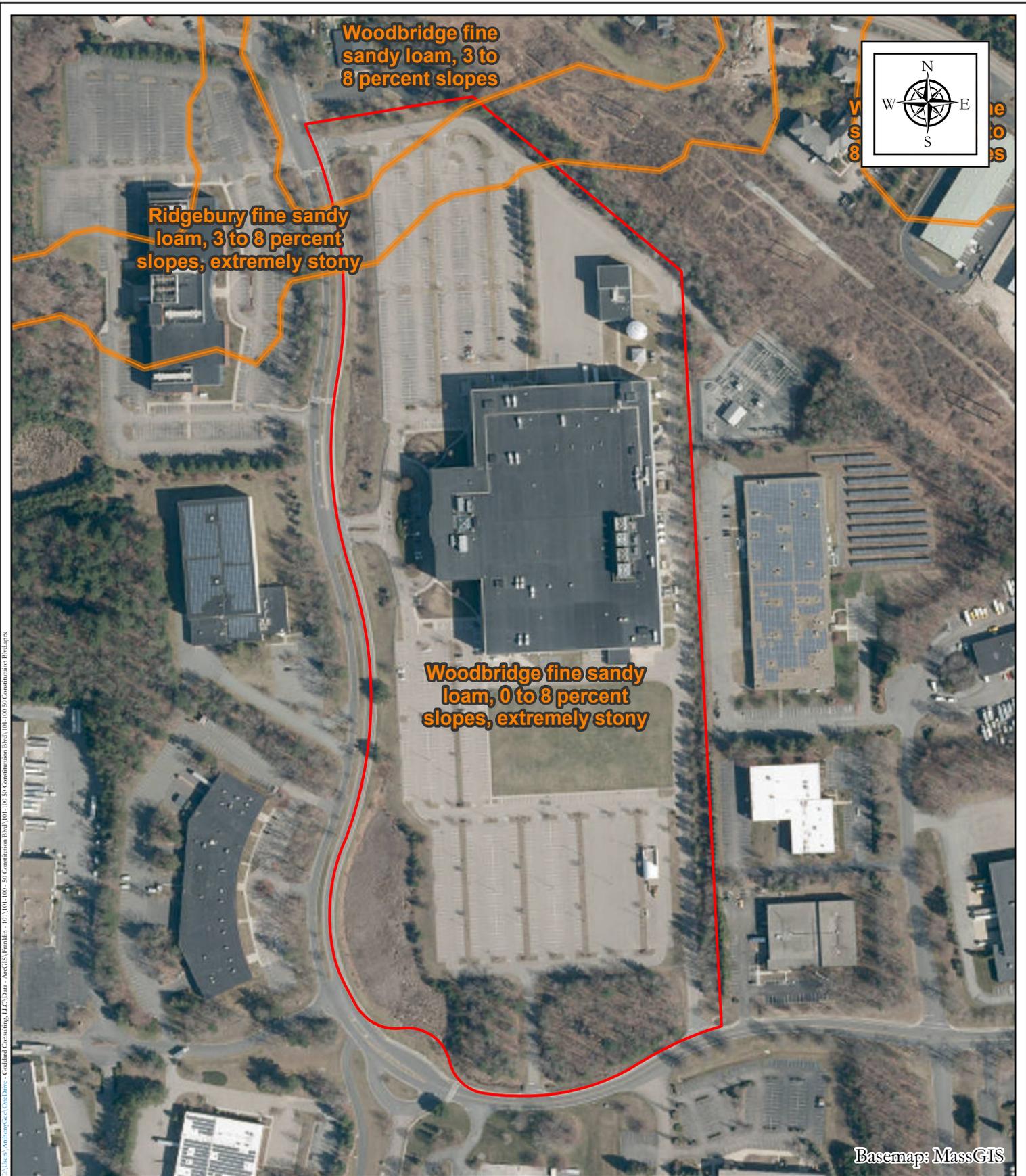
0 500 1,000 1" = 1,000'
 Feet

71.3993736°W, 42.0575779°N

Date: 12/17/2024

50 Conversation Boulevard
 Franklin, MA 02038

Parcel ID: 319-015-000



C:\Users\anthony.garcia\OneDrive - Goddard Consulting, LLC\Data - ArcGIS\Franklin - 101\101-100 - 50 Constitution Blvd\101-101-50 Constitution Blvd.aprx



NRCS Soil Survey of Locus Site

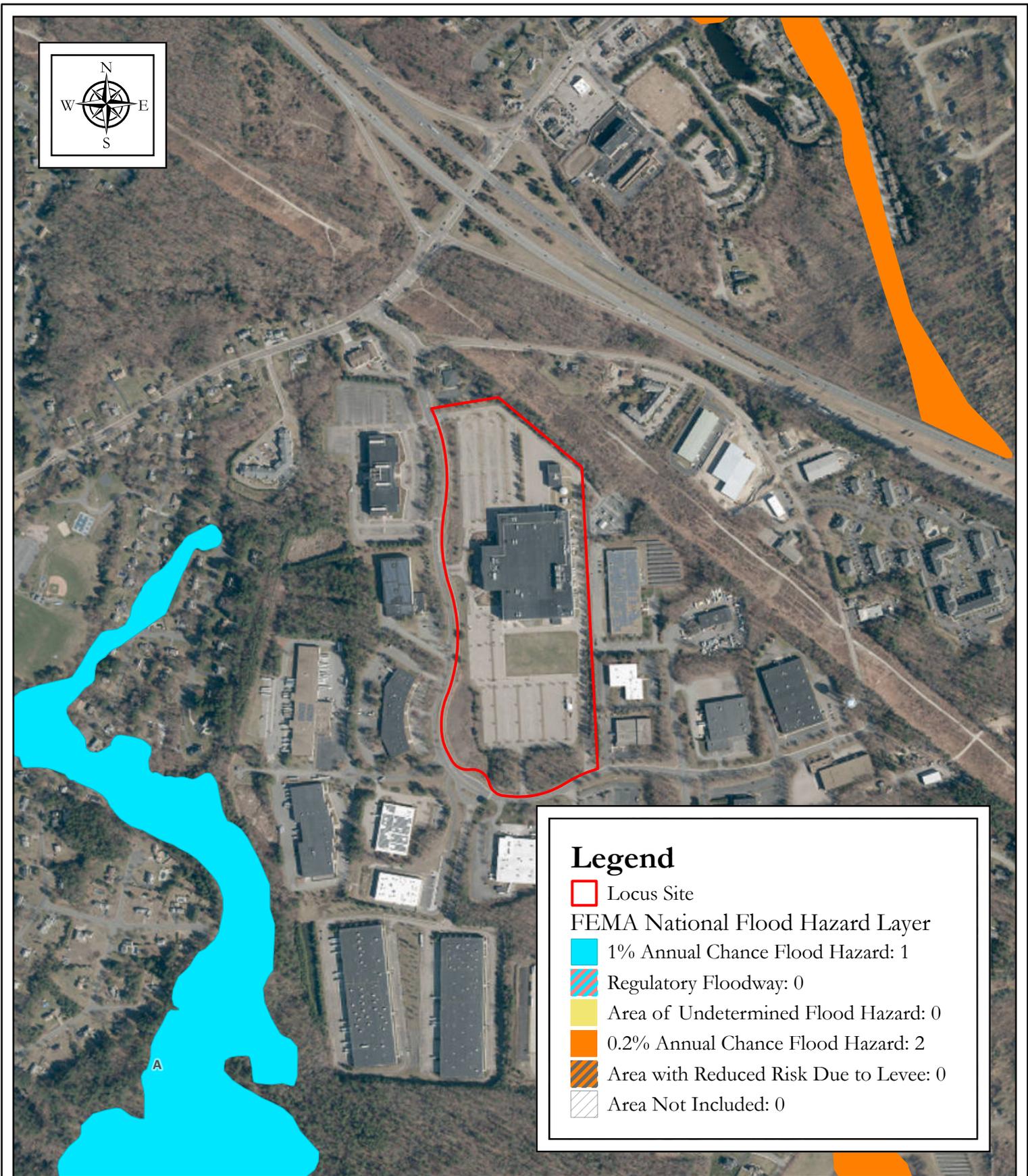
0 200 400 Feet 1" = 400'

71.4002302°W, 42.0583699°N

Date: 12/17/2024

50 Conversation Boulevard
Franklin, MA 02038

Parcel ID: 319-015-000



Legend

- Locus Site
- FEMA National Flood Hazard Layer
- 1% Annual Chance Flood Hazard: 1
- Regulatory Floodway: 0
- Area of Undetermined Flood Hazard: 0
- 0.2% Annual Chance Flood Hazard: 2
- Area with Reduced Risk Due to Levee: 0
- Area Not Included: 0



FEMA Flood Map
of Locus Site

0 500 1,000 Feet 1" = 1,000'

71.4002302°W, 42.0583699°N

Date: 12/17/2024

50 Conversation Boulevard
Franklin, MA 02038

Parcel ID: 319-015-000

ABUTTERS LIST & NOTIFICATION

Town of Franklin Conservation Commission

NOTIFICATION TO ABUTTERS

Under the Massachusetts Wetlands Protection Act And The Franklin Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following proposed project:

Atlantic Design Engineers, Inc. has filed a Notice of Intent with the Franklin Conservation Commission for the Solar Canopy & Ground Mount Project at 50 Constitution Blvd on February 6, 2025, under the Wetlands Protection Act (M.G.L c.131 §40).

Copies of the Notice of Intent may be examined during regular office hours at Atlantic Design Engineers, Inc., 39 Pleasant St., Sagamore, MA 02561 (8 a.m. - 5 p.m., Monday through Friday).

Copies may also be examined by contacting the Franklin Conservation Department located at 355 East Central Street, Franklin, MA, (508) 520-4929.

Notice of the public hearing including the date, time, and place will be published at least five (5) days in advance in the Milford Daily News.

Notice of the public hearing including the date, time, and place will be posted in the Franklin Town Hall at least forty eight (48) hours in advance of the public hearing.

The public hearing will be held on Thursday, February 20, 2025, at 7:00 pm at the Town Council Chambers, located on the Second Floor of the Municipal Building on 355 East Central Street. The meeting is also available via Zoom, and can be accessed through the Conservation Commission agenda for that night, which will be posted on the Town's website 48 hours prior to the meeting. Please call the Conservation Department at (508) 520-4929 if you have any questions.

You may also contact the Massachusetts Department of Environmental Protection, Central Regional Office, Worcester, MA at (508) 792-7650.



137457

Abutter's List Request Form

Status: Active
Submitted On: 1/17/2025

Primary Location

50 CONSTITUTION BLVD
FRANKLIN, MA 02038

Owner

EMC CORPORATION C/O EMC
CORP - REAL ESTATE DEP
SOUTH ST 171 HOPKINTON,
MA 01748

Applicant

Rebecca Peduzzi
 508-888-9282
 rpeduzzi@atlanticcompanies.com
 Atlantic Design Engineers, Inc.
39 Pleasant Street
Sagamore, MA 02561

Abutter's List Request Form

Which Board/Commission is requiring this list?*

Conservation Commission

What is the purpose for the request?*

To obtain a 300-foot abutter list for a Notice of Intent filing with the Conservation Commission

How would you like to receive this abutters list?*

Emailed

What email address should we use to send you the abutters list?*

rpeduzzi@atlanticcompanies.com

General Parcel Information

Assessor's Parcel ID*

319-015-000-000

Property Street Address*

50 Constitution Boulevard

Property Owner Information

Property Owner*

EMC Corporation c/o EMC Corp.-RE
Dep.

Property Owner's Mailing Address*

171 South Street

Town/City*

Hopkinton

Zip/Postal Code*

01748

State*

MA

Property Owner Telephone Number*

(508) 541-4000

Requestor's Information

**Requestor/Applicant same as Property Owner
Information?***

No

Requestor's Name *

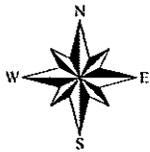
Rebecca Peduzzi c/o Atlantic Design
Engineers, Inc.

Requestor's Telephone Number

(508) 888-9282

Requestor's Address

39 Pleasant St., Sagamore, MA 02561



50 CONSTITUTION BLVD - 300' ABUTTERS

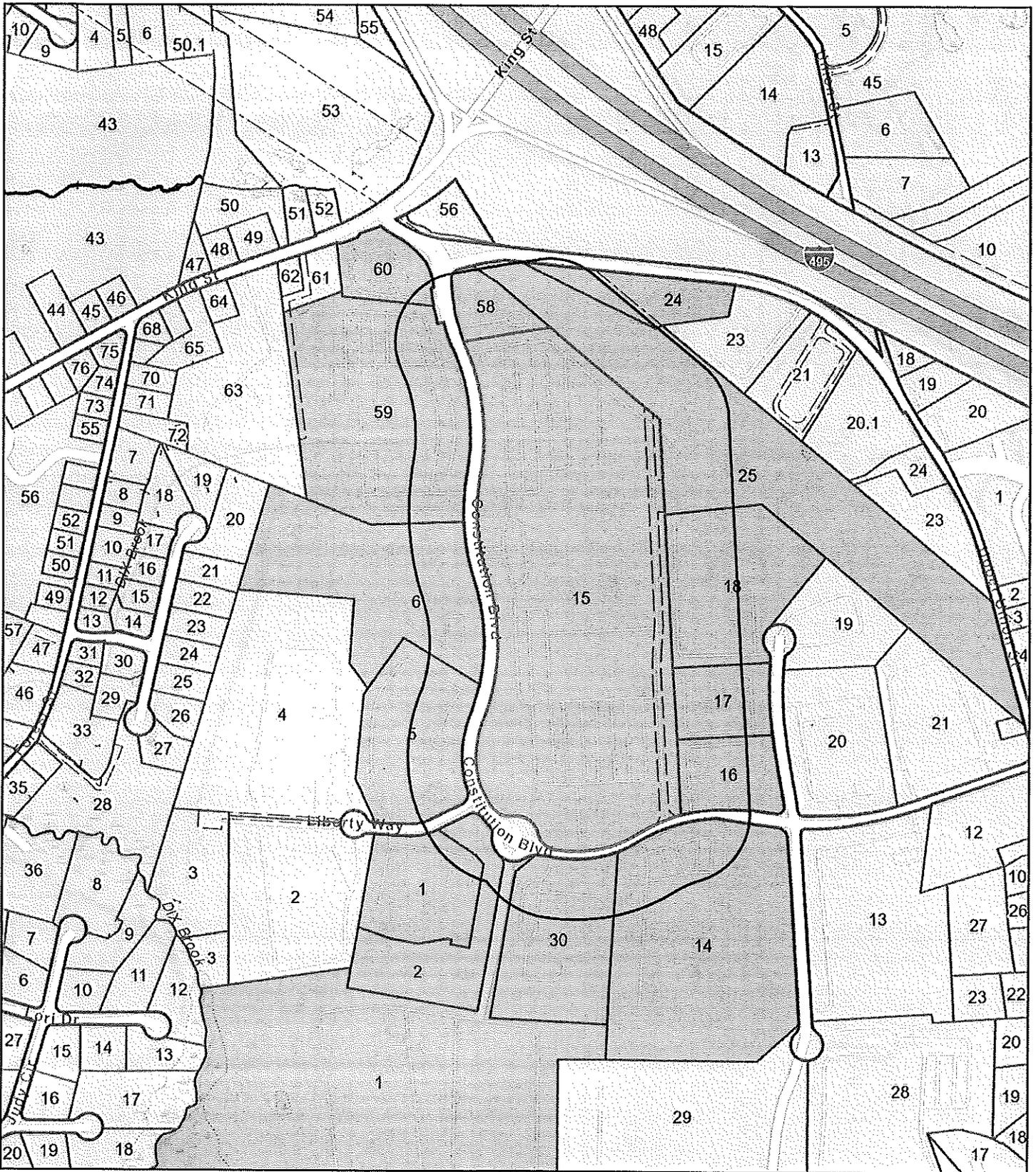
Town of Franklin, MA

1 inch = 600 Feet



www.cai-tech.com

January 30, 2025



This information is believed to be correct but is subject to change and is not warranted.



300 feet Abutters List Report

Franklin, MA
January 30, 2025

Subject Property:

Parcel Number: 319-015-000
CAMA Number: 319-015-000-000
Property Address: 50 CONSTITUTION BLVD

Mailing Address: EMC CORPORATION C/O EMC CORP -
REAL ESTATE DEP
171 SOUTH ST
HOPKINTON, MA 01748

Abutters:

Parcel Number: 313-058-000
CAMA Number: 313-058-000-000
Property Address: 2 CONSTITUTION BLVD

Mailing Address: BRIGHT HORIZONS CHILDRENS CENT
2 WELLS AVENUE
NEWTON, MA 02459

Parcel Number: 313-059-000
CAMA Number: 313-059-000-000
Property Address: 55 CONSTITUTION BLVD

Mailing Address: NBPIV CONSTITUTION II LLC C/O
NORTHBRIDGE PARTNERS LLC
401 EDGEWATER PLACE SUITE 265
WAKEFIELD, MA 01880

Parcel Number: 313-060-000
CAMA Number: 313-060-000-000
Property Address: 600 KING ST

Mailing Address: FRANKLIN TOWN OF
355 EAST CENTRAL STREET
FRANKLIN, MA 02038

Parcel Number: 314-024-000
CAMA Number: 314-024-000-000
Property Address: 801 UPPER UNION ST

Mailing Address: CANESI WILLIAM & THOMAS TRS
CANESI BROTHERS TRUST
801 UPPER UNION ST
FRANKLIN, MA 02038

Parcel Number: 314-025-000
CAMA Number: 314-025-000-000
Property Address: UPPER UNION ST

Mailing Address: NEW ENGLAND POWER CO PROPERTY
TAX DEPT
40 SYLVAN RD
WALTHAM, MA 02451-2286

Parcel Number: 319-014-000
CAMA Number: 319-014-000-000
Property Address: 125 CONSTITUTION BLVD

Mailing Address: MARDINI FRANKLIN LLC
3641 INTERCHANGE RD
COLUMBUS, OH 43204

Parcel Number: 319-015-000
CAMA Number: 319-015-000-000
Property Address: 50 CONSTITUTION BLVD

Mailing Address: EMC CORPORATION C/O EMC CORP -
REAL ESTATE DEP
171 SOUTH ST
HOPKINTON, MA 01748

Parcel Number: 319-016-000
CAMA Number: 319-016-000-000
Property Address: 120 CONSTITUTION BLVD

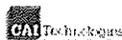
Mailing Address: LRF2 BOS CONSTITUTION BLVD LLC
C/O LONGPOINT PROPERTY GRP LLC
13218 WEST BROWARD BLVD
PLANTATION, FL 33325

Parcel Number: 319-017-000
CAMA Number: 319-017-000-000
Property Address: 10 DISCOVERY WAY

Mailing Address: AERIE REALTY LLC
10 DISCOVERY WAY
FRANKLIN, MA 02038

Parcel Number: 319-018-000
CAMA Number: 319-018-000-000
Property Address: 20 DISCOVERY WAY

Mailing Address: MORGAN GRAINGER LP
20 DISCOVERY WAY
FRANKLIN, MA 02038



www.cai-tech.com

This information is believed to be correct but is subject to change and is not warranted.



300 feet Abutters List Report

Franklin, MA
January 30, 2025

Parcel Number: 320-001-000
CAMA Number: 320-001-000-000
Property Address: 10 LIBERTY WAY

Mailing Address: LRF2 BOS LIBERTY WAY LLC C/O
LONGPOINT REALTY PARTNERS
13218 WEST BROWARD BOULEVARD
PLANTATION, FL 33325

Parcel Number: 320-005-000
CAMA Number: 320-005-000-000
Property Address: 101 CONSTITUTION BLVD

Mailing Address: 101 CONSTITUTION BLVD LLC C/O
KEYPOINT PARTNERS LLC
ONE VAN DE GRAAFF DRIVE - SUITE
402
BURLINGTON, MA 01803

Parcel Number: 320-006-000
CAMA Number: 320-006-000-000
Property Address: 77 CONSTITUTION BLVD

Mailing Address: IRON MOUNTAIN INFO MANAGEMENT
1101 ENTERPRISE DRIVE
ROYERSFORD, PA 19468

Parcel Number: 329-001-000
CAMA Number: 329-001-000-000
Property Address: 109 CONSTITUTION BLVD

Mailing Address: TEACHERS INSURANCE ANNUITY C/O
NEVEEN
PO BOX 30428
CHARLOTTE, NC 28230

Parcel Number: 329-002-000
CAMA Number: 329-002-000-000
Property Address: 105 CONSTITUTION BLVD

Mailing Address: APG FRANKLIN LLC C/O AVENTINE
PROPERTY GROUP IN
111 SOUTH WACKER DR SUITE 3350
CHICAGO, IL 60606

Parcel Number: 330-030-000
CAMA Number: 330-030-000-000
Property Address: 115 CONSTITUTION BLVD

Mailing Address: SCHWARZKOPF TECHNOLOGIES LLC
C/O PLANSEE
115 CONSTITUTION BLVD
FRANKLIN, MA 02038

Kevin W. Doyle, 1-30-25



www.cai-tech.com

This information is believed to be correct but is subject to change and is not warranted.

1/30/2025

Page 2 of 2

101 CONSTITUTION BLVD LLC
C/O KEYPOINT PARTNERS LLC
ONE VAN DE GRAAFF DRIVE -
SUITE 402
BURLINGTON, MA 01803

MARDINI FRANKLIN LLC
3641 INTERCHANGE RD
COLUMBUS, OH 43204

AERIE REALTY LLC
10 DISCOVERY WAY
FRANKLIN, MA 02038

MORGAN GRAINGER LP
20 DISCOVERY WAY
FRANKLIN, MA 02038

APG FRANKLIN LLC
C/O AVENTINE PROPERTY GRO
111 SOUTH WACKER DR SUITE
3350
CHICAGO, IL 60606

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171 SOUTH ST
HOPKINTON, MA 01748

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C/O NEVEEN
PO BOX 30428
CHARLOTTE, NC 28230

FRANKLIN TOWN OF
355 EAST CENTRAL STREET
FRANKLIN, MA 02038

IRON MOUNTAIN INFO MANAGE
1101 ENTERPRISE DRIVE
ROYERSFORD, PA 19468

LRF2 BOS CONSTITUTION BLV
C/O LONGPOINT PROPERTY GR
13218 WEST BROWARD BLVD
PLANTATION, FL 33325

LRF2 BOS LIBERTY WAY LLC
C/O LONGPOINT REALTY PART
13218 WEST BROWARD
BOULEVARD
PLANTATION, FL 33325

AFFIDAVIT OF SERVICE

&

PROPERTY ACCESS SIGNATURE FORM

Town of Franklin Conservation Commission

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

(To be submitted to the Massachusetts Department of Environmental Protection and the Franklin Conservation Commission when filing a Notice of Intent)

I, Richard Tabaczynski, PE hereby certify under the pains and penalties of perjury that on February 6, 2025, I gave Notification to Abutters in compliance with second paragraph of Massachusetts General Laws Chapter 131, Section 40 in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by EMC Corporation with the Franklin Conservation Commission on February 6, 2025 for property located on 50 Constitution Boulevard (Map 319 Parcel 015), Franklin, MA.

The Notification to Abutters form and list of the abutters to whom it was given and their addresses are attached to the Affidavit of Service.



Signature

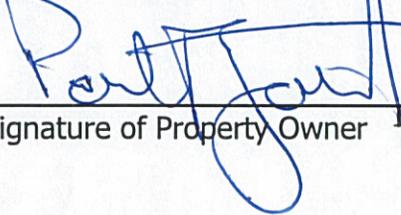
2/6/2025

Date

Town of Franklin Conservation Commission

PROPERTY ACCESS SIGNATURE FORM

I hereby request that the Franklin Conservation Commission review this NOI/RDA/ANRAD application. I (we) grant authority to the Franklin Conservation Commission members and agents to go onto my (our) property solely for purposes directly related to the inspection and approval of this application and for follow-up compliance with the permit conditions.

 Paul Fitzgerald
Vice President
Signature of Property Owner Real Estate & Facilities Date 2/3/25

STRUCTURAL SITE PLANS

SOLAR CANOPY

FOR

Sunnova Energy

AT

Dell Campus
50 Constitution Blvd,
Franklin, MA 02038



terrasmart™

6715 STEGER DRIVE
 CINCINNATI, OH 45237
 513.242.2051
 FAX: 513.242.0816

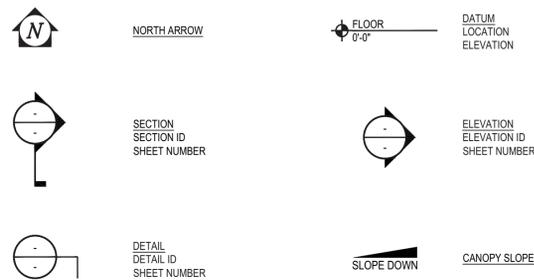
PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

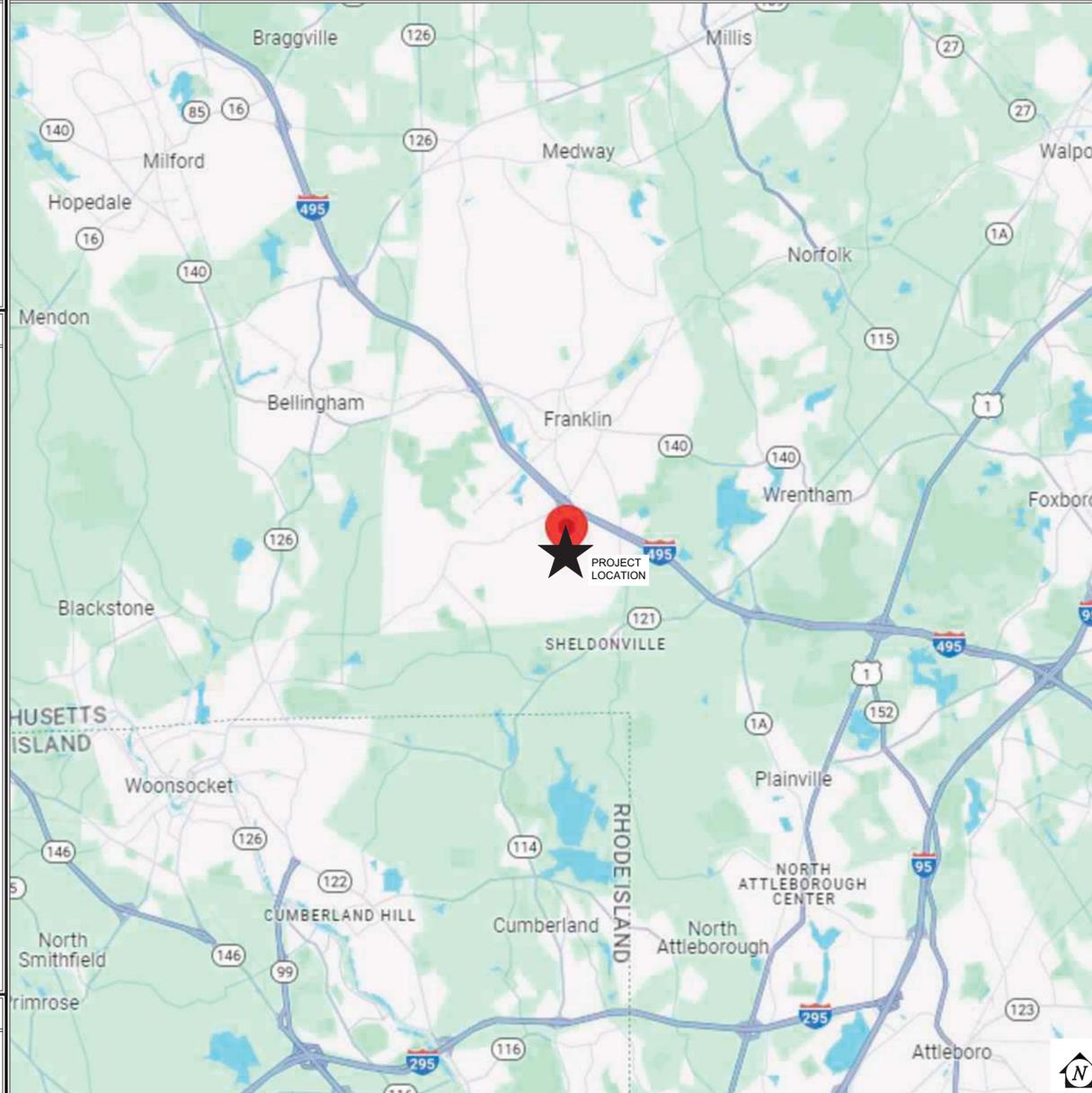


SOLAR CANOPY
 FOR
Sunnova Energy

SYMBOLS LEGEND



VICINITY MAP



DRAWING INDEX

SHT. No.	SHEET DESCRIPTION	REL. No.	SHT. No.	SHEET DESCRIPTION	REL. No.
SC001	COVER SHEET	5			
SC002	GENERAL NOTES AND MODULE SPECIFICATION SHEETS	5			
SC003	SITE PLAN	5			
SC101	FOUNDATION AND COLUMN PLAN	5			
SC102	FOUNDATION AND COLUMN PLAN	5			
SC103	FOUNDATION AND COLUMN PLAN	5			
SC104	COMPONENT PLAN	5			
SC105	COMPONENT PLAN	5			
SC106	COMPONENT PLAN	5			
SC301	CANOPY SECTION	5			
SC401	FOUNDATION AND BASE PLATE DETAILS	5			
SC501	COMPONENT DETAILS	5			

GOVERNING CODE

Massachusetts Building Code, 9th Edition

CONSTRUCTION TYPE: IIB

RISK CATEGORY: II

DESIGN LOADS:

- DEAD LOADS:
 - STRUCTURE: 5.0 PSF
 - GLAZING: 3.0 PSF
 - Z = 0.0 PSF
- ROOF LIVE LOAD = 12 PSF
- SNOW LOAD:
 - P_g = 40 PSF (GROUND SNOW)
 - P_f = 35.0 PSF (ROOF SNOW)
 - C_e = 1.0
 - C_t = 1.2
 - I_s = 1.00
- WIND LOAD: (MAIN WIND FORCE RESISTING SYSTEM)
 - V_{ult} = 129 MPH
 - V_{ref} = 100 MPH
 - I_w = 1.00
 - EXPOSURE: B
- SEISMIC: (LOADS PARALLEL AND PERPENDICULAR TO CANOPY FRAMES)
 - S_{vs} = 0.183
 - S_{vs} = 0.064
 - S_{vs} = 0.159
 - S_{vs} = 0.064
 - I_{pe} = 1.00
 - SITE CLASS: C
 - SEISMIC DESIGN CATEGORY: A
 - SEISMIC FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEMS DETAILED TO CONFORM TO THE REQUIREMENTS FOR ORDINARY STEEL MOMENT FRAMES (CANT. COL.)
 - DESIGN BASE SHEAR: V = 1.905 PSF
 - C_s = 0.127
 - R = 1.25
 - EQUIVALENT LATERAL FORCE ANALYSIS

RESPONSIBILITY SCHEDULE

ITEM DESCRIPTION	N/A	TERRASMART		CUSTOMER		REMARKS
		FURN.	INST.	FURN.	INST.	
GEOTECHNICAL REPORT				●		
SITE SURVEY				●		EXISTING CONDITIONS - TOPO & LOCATE COLUMNS
CONSTRUCTION SURVEY				●		VERIFY COLUMN LOCATIONS
CORROSION ANALYSIS	●					
LOCATE SUBSURFACE UTILITIES/STRUCTURES				●		PRIVATE UTILITY LOCATE
SITE GRADING	●					
SPOILS REMOVAL				●		
FENCING				●		
TEMPORARY ELECTRIC				●		
PORTABLE TOILET				●		
MATERIAL UNLOADING				●		
MATERIAL STAGING				●		
DUMPSTER/REFUSE REMOVAL				●		
FOUNDATIONS				●		FOUNDATION ENGINEERING BY TERRASMART
ANCHOR BOLTS		●				
PV MODULES				●		
PV MODULE MOUNTING HDW		●				
PV MODULE RAIL	●					
PV MODULE GROUNDING HDW		●				
WIRE MANAGEMENT				●		
CANOPY GROUNDING				●		
SITE CLEAN-UP				●		
SPECIAL INSPECTIONS				●		
FOUNDATION GROUNDING				●		
OPTIONAL ADD-ONS						
RAISED PIERS			●			
DECKING	●					
GUTTERS & DOWNSPOUTS	●					
SNOW GUARDS	●					
FASCIA/PURLIN ENCLOSURE	●					

SOLAR CANOPY SYSTEM SPECIFICATIONS

PV MODULE TYPE	: TRINA SOLAR VERTEX	ACTIVE PV MODULES	: 2436
MODULE MODEL #	: TSM-DEG21C.20 - 655	SPARE PV MODULES	: -
ARRAY TYPE	: FIXED TILT	TOTAL PV MODULES	: 2436
ARRAY TILT	: 7 DEG.	TOTAL WATTS	: 1.59 MW DC

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW
1	02/21/24	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:	
Dell Campus	
50 Constitution Blvd,	
Franklin, MA 02038	
TERRASMART PROJECT No.: 2370049	
DRAWN BY: NCE	REVIEWED BY: MS
SHEET TITLE:	
COVER SHEET	
SHEET No.:	
SC001	

The drawings and data in this document, and the intellectual property and confidential information it contains, are the property of Terrasmart, Inc. 6715 Steger Drive, Cincinnati, OH 45237. Any party accepting this document does so in confidence and agrees that it shall not be duplicated, in whole or in part, nor disclosed to others without the written consent of Terrasmart, Inc. © 2022

GENERAL NOTES

CONSTRUCTION AND SAFETY:

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CONSTRUCTION CODE AND THE PROJECT SPECIFICATIONS.
- ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
- CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. ANY UNEXPECTED CONDITIONS OR DISCREPANCIES WITH THE DESIGN DOCUMENTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO INSTALLATION OR ERECTION OF MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
- NO PERSONNEL SHALL STEP OR STAND ON PV MODULES (SOLAR PANELS) AT ANY TIME. CANOPY STRUCTURE AND PV MODULES ARE NOT DESIGNED FOR LIVE LOADS AND MAY VOID WARRANTY.

MISCELLANEOUS:

- THIS SUBMITTAL/CONSTRUCTION SET WAS PRODUCED FROM DOCUMENTS RECEIVED FROM CUSTOMER ON 2/3/24. TERRASMAST, INC. IS NOT RESPONSIBLE FOR DISCREPANCIES FROM ACTUAL FIELD DIMENSIONS.
- THIS TERRASMAST, INC. CONSTRUCTION SET IS DESIGNED FROM PV MODULE DATA SHEET(S) PROVIDED BY THE CUSTOMER. CUSTOMER IS RESPONSIBLE FOR VERIFYING THAT THE PV MODULE(S) DELIVERED TO SITE MATCH DATA SHEET(S) PROVIDED TO TERRASMAST, INC. TERRASMAST, INC. IS NOT RESPONSIBLE FOR PV MODULE DIMENSIONAL DISCREPANCIES DUE TO FURNISHED PV MODULES NOT MATCHING CUSTOMER FURNISHED PV MODULE DATA SHEETS.

SPECIAL FIELD INSPECTIONS:

- SPECIAL INSPECTION NOT REQUIRED BY TERRASMAST, INC. AS REQUIRED BY OWNER/CUSTOMER AND/OR AUTHORITY HAVING JURISDICTION, MINIMUM INSPECTION SHALL INCLUDE THE FOLLOWING NOTES AND TABLE:
- ALL SPECIAL INSPECTORS SHALL BE RETAINED BY OWNER/CUSTOMER. THE EXTENT OF THE INSPECTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS, THE BUILDING CODE REQUIREMENTS, AND LOCAL JURISDICTION. IT IS THE OWNER'S/CUSTOMER'S RESPONSIBILITY TO GIVE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE WORK ONLY AFTER THE SPECIAL INSPECTOR'S APPROVAL.
 - FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN OWNER/CUSTOMER HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE OWNER'S/CUSTOMER'S EXPENSE.
 - PREMATURE NOTIFICATION FOR INSPECTION WILL RESULT IN AN ADDITIONAL INSPECTION WITH ALL EXPENSES AND FEES PAID BY THE OWNER/CUSTOMER.
 - SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS. RECORDS SHALL BE FURNISHED TO THE OWNER, ENGINEER OF RECORD, AND LOCAL JURISDICTION AS REQUIRED. ANY AND ALL DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR. CORRECTIONS SHALL BE MADE AND A FINAL REPORT OF INSPECTIONS SHALL BE PROVIDED NOTING COMPLETION OF INSPECTIONS AND CORRECTIONS OF DISCREPANCIES. FAILURE TO CORRECT DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD AND THE LOCAL JURISDICTION AND MAY RESULT IN REMOVAL OF COMPLETED WORK AND ADDITIONAL WORK TO CORRECT DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.

IBC TABLE 1705		
STRUCTURAL STEEL/ALUMINUM FABRICATION	CONTINUOUS	PERIODIC
MATERIAL IDENTIFICATION		X
HIGH STRENGTH BOLTS - MATERIAL IDENTIFICATION OF BOLTS, NUTS AND WASHERS		X
WELD FILLER MATERIALS - IDENTIFICATION AND CONFIRMATION OF COMPLIANCE WITH DESIGN DOCUMENTS		X
STRUCTURAL STEEL/ALUMINUM ERECTION		
MATERIAL IDENTIFICATION		X
INSTALLATION OF HIGH STRENGTH BOLTS		X
WELDED CONNECTIONS		X
MEMBER SIZES AND PLACEMENT		X
GENERAL CONFORMANCE WITH DESIGN DOCUMENTS		X
CONCRETE CONSTRUCTION		
MATERIAL IDENTIFICATION		X
MIX DESIGN VERIFICATION		X
SIZE AND PLACEMENT OF REINFORCING STEEL		X
PLACEMENT OF CONCRETE USING PROPER TECHNIQUES	X	
CONCRETE SAMPLES FOR SLUMP, AIR CONTENT, TEMPERATURE, STRENGTH TESTS, ETC. IN ACCORDANCE WITH ACI 318	X	
PROPER MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
FOUNDATIONS		
SIZE AND LOCATION OF FOUNDATION EXCAVATIONS		X
PLACEMENT OF REINFORCING STEEL AS REQUIRED		X

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST VERSION OF AISC "MANUAL OF STEEL CONSTRUCTION". LIGHT GAGE COLD-FORMED SECTIONS SHALL CONFORM TO LATEST VERSION OF AISI SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS.
- MATERIALS:
 - A. ROLLED SHAPES: ASTM A992 OR A572 GRADE 50, F_y = 50 KSI MINIMUM
 - B. PLATES: ASTM A529 GRADE 50, F_y = 50 KSI MINIMUM
 - C. TUBULAR SHAPES: ASTM A500 GRADE C, F_y = 50 KSI MINIMUM
 - D. FIELD BOLTS (TYP. U.N.O.): SAE J429 GRADE 5 AND/OR ASTM A325
 - E. SCREWS: #12 TEK'S - GALVANIZED
 - F. COLD-FORMED/LIGHT GAGE: ASTM A653
 - G. ANCHOR RODS: ASTM A193 B7 OR ASTM F1554 GRADE 105
 - H. STAINLESS STEEL: TYPE 304 MINIMUM
- TEK SCREWS ARE TO BE INSTALLED USING A 2500 RPM MAX. NON-IMPACTING VARIABLE SPEED DRILL WITH CLUTCH OUT.
- FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS. ALL BOLTED CONNECTIONS SHALL BE INSTALLED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE FULL EFFORT OF A MAN USING A NORMAL SPUD WRENCH OR A FEW IMPACTS OF AN IMPACT WRENCH. THE "SNUG TIGHT" CONDITION WILL ENSURE THE PILES OF CONNECTED MATERIAL ARE IN FIRM CONTACT.
- ALL PV MODULE MOUNTING HARDWARE SHALL BE INSTALLED AND TORQUED PER PV MODULE MANUFACTURER'S RECOMMENDATIONS. CONNECTIONS USING WEB BONDING WASHERS SHALL BE PER TERRASMAST, INC. INSTALLATION GUIDE - MINIMUM OF 12 FT-LBS FOR 5/16" MOUNTING HARDWARE AND 6 FT-LBS FOR 1/4" MOUNTING HARDWARE.
- ALL WELDING OF STEEL SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICAN WELD SOCIETY'S SPECIFICATIONS - AWS D1.1. ELECTRODES SHALL BE E70 SERIES UNLESS NOTED OTHERWISE.
- GALVANIZING SPECIFICATIONS - GALVANIZING SHALL BE PER CONTRACT DOCUMENTS
 - A. HOT-DIPPED GALVANIZING SHALL BE PER ASTM A123.
 - B. PRE-GALVANIZED MATERIALS SHALL COMPLY WITH ASTM A653 - G90 MINIMUM.
 - C. ALL STRUCTURAL HARDWARE (NOT PV MODULE MOUNTING HARDWARE) SHALL BE GALVANIZED.
 - D. FIELD APPLIED GALVANIZING REPAIR COMPOUND (ZnC GALVILITE LIQUID OR EQUIVALENT) PER ASTM A780

MISCELLANEOUS FASTENERS:

- ALL BOLTS SHALL BE THE TYPE AND SIZE INDICATED ON DRAWINGS.
- ALL HARDWARE USED FOR MOUNTING PV MODULES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.

WORK BY OTHERS:

- ALL SHADING ANALYSIS AND/OR PRODUCTION ANALYSIS SHALL BE PERFORMED AND VERIFIED BY OTHERS. TERRASMAST, INC. IS NOT RESPONSIBLE FOR PV SYSTEM DESIGN AS IT PERTAINS TO ELECTRICAL OR PV SYSTEM PRODUCTION.
- ITEMS AS DESIGNATED IN RESPONSIBILITY SCHEDULE ON SHEET G-001.

FOUNDATIONS/CONCRETE:

- THE FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT PREPARED BY: McPhail Associates, LLC. DATED 02/16/2024. BEARING CAPACITY OF SOIL AT PIER TIP: 6000 psf
- VARIATIONS IN SOIL CONDITIONS SHALL BE REPORTED TO GEOTECHNICAL ENGINEER AND ENGINEER OF RECORD RESPONSIBLE FOR FOUNDATION DESIGN PRIOR TO INSTALLATION OF ANY FOUNDATION MATERIALS.
- INSTALLER/CONTRACTOR SHALL COORDINATE PLACEMENT OF FOUNDATIONS AND/OR ANCHOR BOLTS PER DESIGN DRAWINGS AND/OR MANUFACTURER'S SPECIFICATIONS.
- TERRASMAST, INC. DESIGNS FOUNDATIONS BASED ON SOIL PROPERTIES OUTLINED IN CERTIFIED GEOTECHNICAL REPORTS. ALL DESIGNS ASSUME UNDISTURBED SOIL CONDITIONS, AND DO NOT TAKE INTO ACCOUNT TRENCHING NEAR FOUNDATIONS. FOR CASES WHERE TRENCHING FOR ELECTRICAL WORK IS AT OR NEAR A FOUNDATION, TERRASMAST, INC. RECOMMENDS A MINIMUM OF 3'-0" CLEAR FROM THE EDGE OF THE TRENCH TO THE EDGE OF THE FOUNDATION FOR "NORMAL GOOD SOIL CONDITIONS." IN CASES OF "POOR SOIL" CONDITIONS, TERRASMAST, INC. RECOMMENDS A MINIMUM CLEAR DISTANCE EQUAL TO OR GREATER THAN THE DEPTH OF THE FOUNDATION. IF IN DOUBT OF SOIL CONDITIONS, TERRASMAST, INC. RECOMMENDS CONSULTING A QUALIFIED GEOTECHNICAL ENGINEER TO ASSESS SOIL CONDITIONS AT THE SITE.

NOTE: TRENCHING/EXCAVATION WITHIN 3'-0" OF ANY FOUNDATION REQUIRES REPLACING THE ORIGINAL SOIL AND COMPACTION TO 95% STANDARD PROCTOR DENSITY. FOR FURTHER CLARIFICATION ON COMPACTION REQUIREMENTS, TERRASMAST, INC. RECOMMENDS CONSULTING A QUALIFIED GEOTECHNICAL ENGINEER.
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST VERSION OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- CONCRETE MIX DESIGNS MUST HAVE ENGINEER OF RECORD APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 BILLET STEEL.
- MINIMUM CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS: CONCRETE CAST AGAINST EARTH = 3.0".
- CONCRETE STRENGTH: 5000 PSI AT 28 DAYS MINIMUM (WITH +/-4' SLUMP).
- REINFORCEMENT DETAILS PER ACI 318 AND IBC.
- BASE PLATE GROUT: NON-SHRINK, MINIMUM 10000 PSI STRENGTH.
- NOMINAL AGGREGATE SIZE: 3/4".
- ALTERING OR SUBSTITUTING OF REINFORCEMENT MUST HAVE ENGINEER OF RECORD APPROVAL.
- PLACEMENT OF CONDUIT MUST HAVE ENGINEER OF RECORD APPROVAL.



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FAX: 513.242.0816

PROFESSIONAL SEAL

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SOLAR CANOPY

FOR

Sunnova Energy

PV MODULE SPECIFICATION SHEETS

BIFACIAL DUAL GLASS MONOCRYSTALLINE MODULE

PRODUCT: TSM-06G21C.20
POWER RANGE: 640-665W

665W MAXIMUM POWER OUTPUT

0~+5W POSITIVE POWER TOLERANCE

21.4% MAXIMUM EFFICIENCY

High customer value

- Lower LCOE (Levelized Cost of Energy), reduced BOS (Balance of System) cost, shorter payback time
- Lowest guaranteed first year and annual degradation
- Designed for compatibility with existing mainstream system components

High power up to 665W

- Up to 21.4% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

High energy yield

- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under inter-row shading conditions
- Lower temperature coefficient (-0.34%) and operating temperature
- Up to 25% additional power gain from back side depending on albedo

Trina Solar's Vertex Bifacial Dual Glass Performance Warranty

Comprehensive Products and System Certificates

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, IEC 61215, IEC 61730, IEC 62108-2, IEC 62109, IEC 61646, IEC 61853, IEC 61854, IEC 61855, IEC 61856, IEC 61857, IEC 61858, IEC 61859, IEC 61860, IEC 61861, IEC 61862, IEC 61863, IEC 61864, IEC 61865, IEC 61866, IEC 61867, IEC 61868, IEC 61869, IEC 61870, IEC 61871, IEC 61872, IEC 61873, IEC 61874, IEC 61875, IEC 61876, IEC 61877, IEC 61878, IEC 61879, IEC 61880, IEC 61881, IEC 61882, IEC 61883, IEC 61884, IEC 61885, IEC 61886, IEC 61887, IEC 61888, IEC 61889, IEC 61890, IEC 61891, IEC 61892, IEC 61893, IEC 61894, IEC 61895, IEC 61896, IEC 61897, IEC 61898, IEC 61899, IEC 61900, IEC 61901, IEC 61902, IEC 61903, IEC 61904, IEC 61905, IEC 61906, IEC 61907, IEC 61908, IEC 61909, IEC 61910, IEC 61911, IEC 61912, IEC 61913, IEC 61914, IEC 61915, IEC 61916, IEC 61917, IEC 61918, IEC 61919, IEC 61920, IEC 61921, IEC 61922, IEC 61923, IEC 61924, IEC 61925, IEC 61926, IEC 61927, IEC 61928, IEC 61929, IEC 61930, IEC 61931, IEC 61932, IEC 61933, IEC 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SOLAR CANOPY

FOR

Sunnova Energy

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW
1	02/21/24	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
Dell Campus

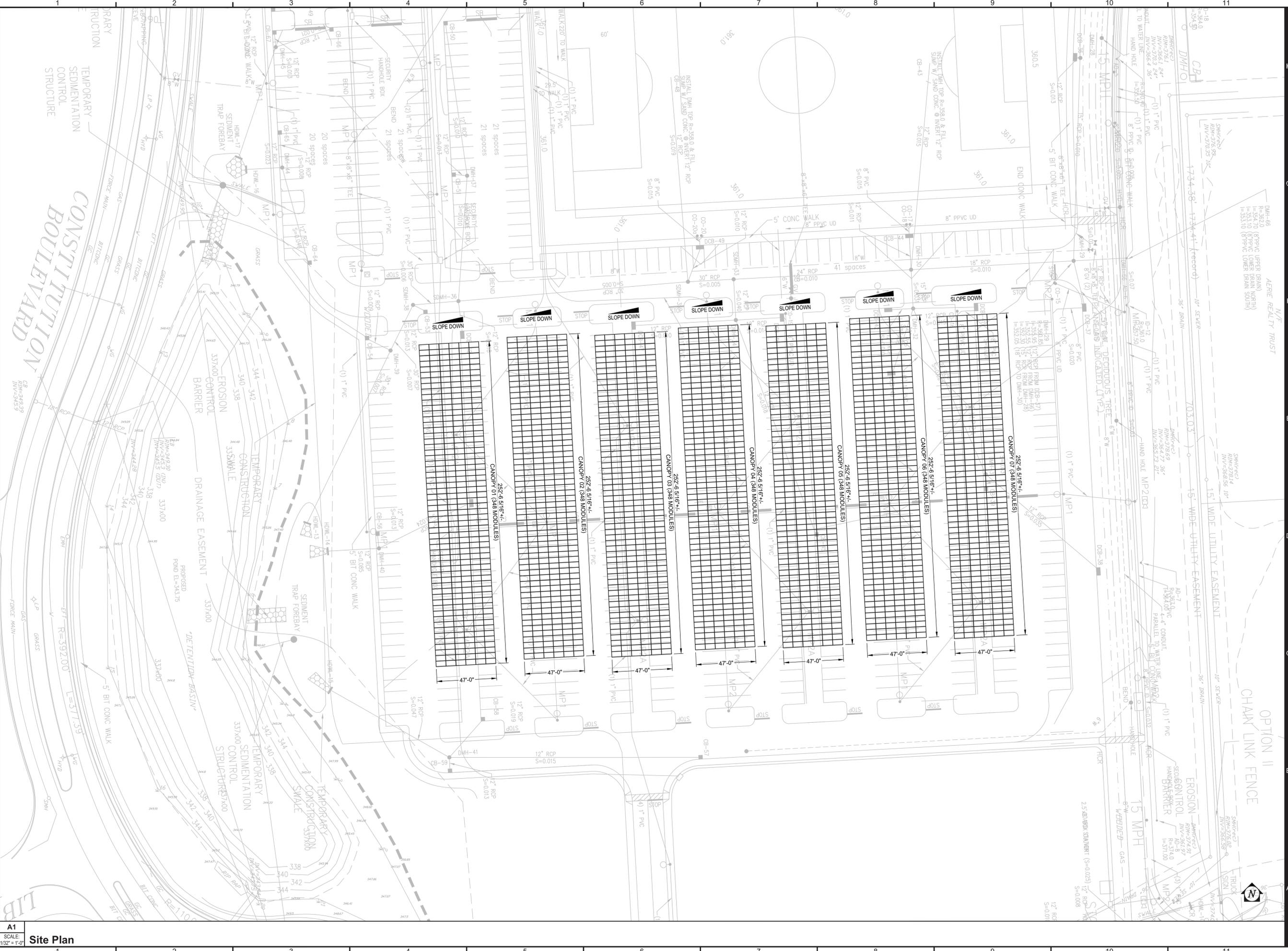
**50 Constitution Blvd,
 Franklin, MA 02038**

TERRASMART PROJECT No.:
2370049

DRAWN BY: NCE
 REVIEWED BY: MS

SHEET TITLE:
SITE PLAN

SHEET No.:
SC003

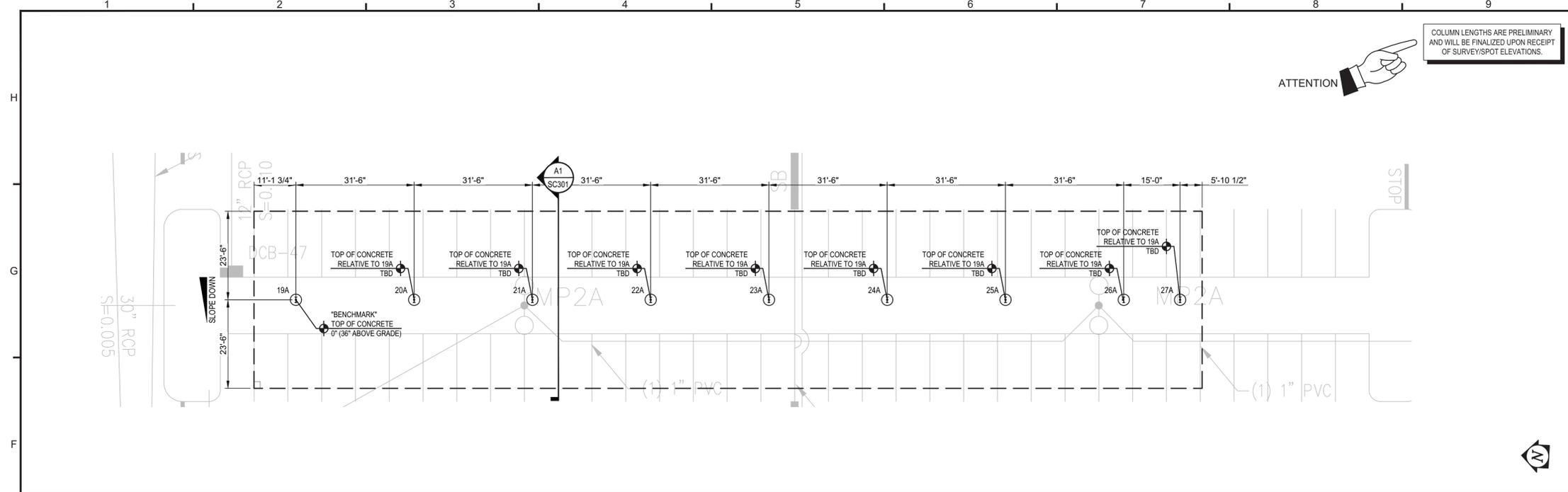


A1
 SCALE:
 1/32" = 1'-0"

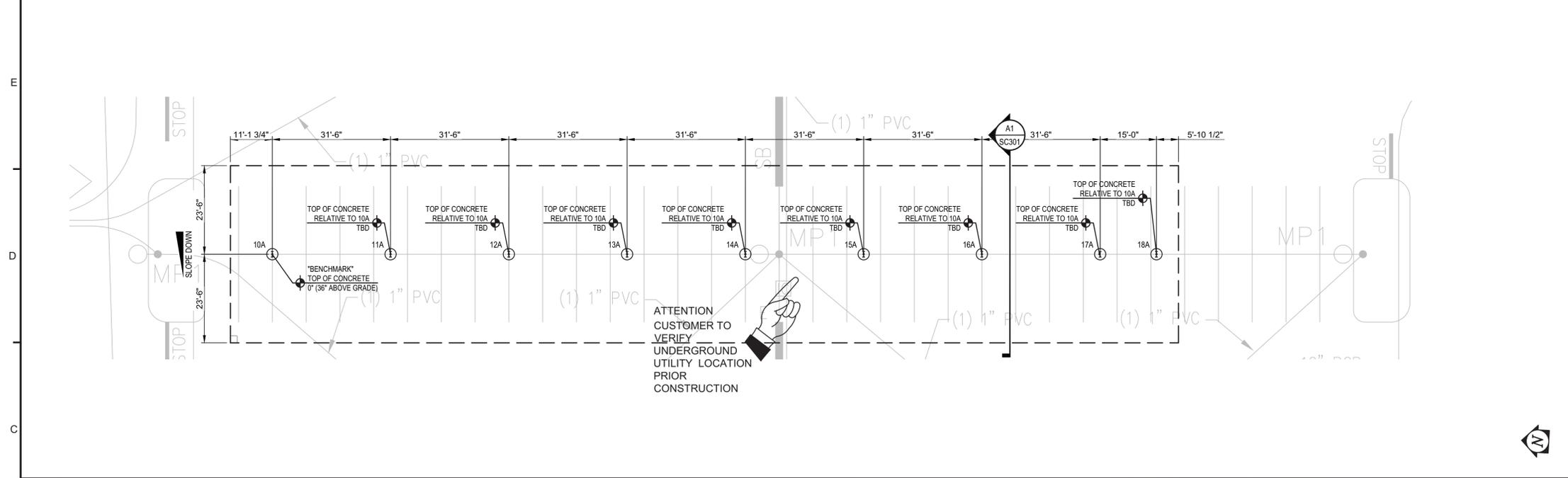
Site Plan

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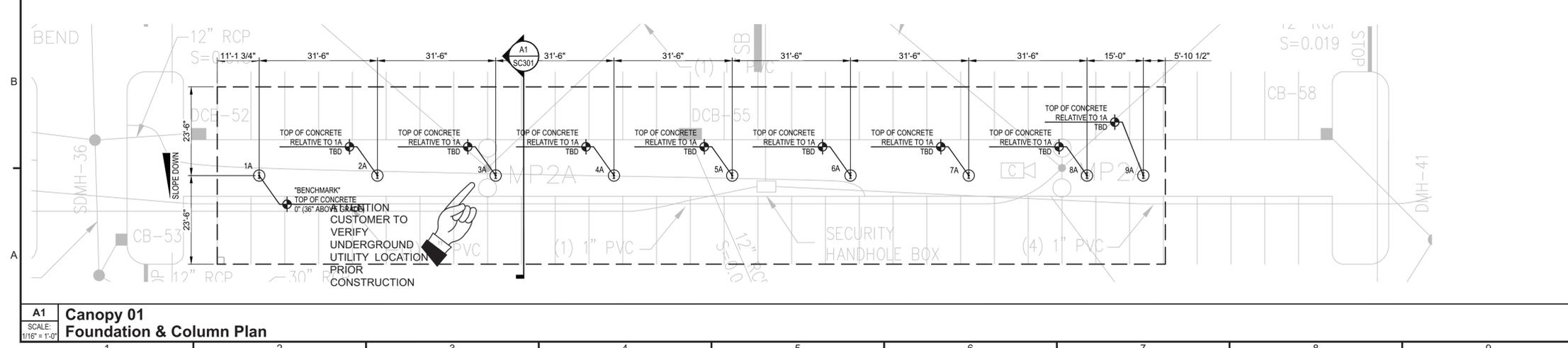
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F1 Canopy 03
Foundation & Column Plan
 SCALE: 1/16" = 1'-0"



C1 Canopy 02
Foundation & Column Plan
 SCALE: 1/16" = 1'-0"



A1 Canopy 01
Foundation & Column Plan
 SCALE: 1/16" = 1'-0"

COLUMN SCHEDULE				
MARK	FNDN. TYPE	DESCRIPTION	PRELIM. LENGTH	LEVELING NUT
CANOPY 01				
1	A	W21 x 62 COLUMN	13'-6"	T.B.D.
2	A	W21 x 62 COLUMN	13'-6"	T.B.D.
3	A	W21 x 62 COLUMN	13'-6"	T.B.D.
4	A	W21 x 62 COLUMN	13'-6"	T.B.D.
5	A	W21 x 62 COLUMN	13'-6"	T.B.D.
6	A	W21 x 62 COLUMN	13'-6"	T.B.D.
7	A	W21 x 62 COLUMN	13'-6"	T.B.D.
8	A	W21 x 62 COLUMN	13'-6"	T.B.D.
9	A	W21 x 62 COLUMN	13'-6"	T.B.D.
10	A	W21 x 62 COLUMN	13'-6"	T.B.D.
11	A	W21 x 62 COLUMN	13'-6"	T.B.D.
12	A	W21 x 62 COLUMN	13'-6"	T.B.D.
13	A	W21 x 62 COLUMN	13'-6"	T.B.D.
14	A	W21 x 62 COLUMN	13'-6"	T.B.D.
15	A	W21 x 62 COLUMN	13'-6"	T.B.D.
16	A	W21 x 62 COLUMN	13'-6"	T.B.D.
17	A	W21 x 62 COLUMN	13'-6"	T.B.D.
18	A	W21 x 62 COLUMN	13'-6"	T.B.D.
CANOPY 02				
19	A	W21 x 62 COLUMN	13'-6"	T.B.D.
20	A	W21 x 62 COLUMN	13'-6"	T.B.D.
21	A	W21 x 62 COLUMN	13'-6"	T.B.D.
22	A	W21 x 62 COLUMN	13'-6"	T.B.D.
23	A	W21 x 62 COLUMN	13'-6"	T.B.D.
24	A	W21 x 62 COLUMN	13'-6"	T.B.D.
25	A	W21 x 62 COLUMN	13'-6"	T.B.D.
26	A	W21 x 62 COLUMN	13'-6"	T.B.D.
27	A	W21 x 62 COLUMN	13'-6"	T.B.D.
CANOPY 03				
19	A	W21 x 62 COLUMN	13'-6"	T.B.D.
20	A	W21 x 62 COLUMN	13'-6"	T.B.D.
21	A	W21 x 62 COLUMN	13'-6"	T.B.D.
22	A	W21 x 62 COLUMN	13'-6"	T.B.D.
23	A	W21 x 62 COLUMN	13'-6"	T.B.D.
24	A	W21 x 62 COLUMN	13'-6"	T.B.D.
25	A	W21 x 62 COLUMN	13'-6"	T.B.D.
26	A	W21 x 62 COLUMN	13'-6"	T.B.D.
27	A	W21 x 62 COLUMN	13'-6"	T.B.D.

COLUMN SETTING NOTES:
 1. ALL COLUMN DIMENSIONS SHOWN ARE ϵ TO ϵ OF COLUMN.
 2. LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 3. DIMENSIONS SHOWN ON PLAN SHALL BE VERIFIED IN THE FIELD.
 4. LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
 5. REFERENCE SHEET SC401 FOR ADDITIONAL FOUNDATION INFORMATION.
 6. "LENGTH" REFERS TO THE CUT LENGTH OF THE COLUMN ON ITS LONGEST FACE.
 7. COLUMN LENGTHS PRELIMINARY. FINAL COLUMN LENGTHS WILL BE DETAILED IN SHOP DRAWINGS.
PIER NOTES:
 1. 0' ELEVATION AT THE BENCHMARK PIER IS FOR REFERENCE ONLY AND IS NOT RELATED TO SEA LEVEL.
 2. TOP OF CONCRETE ELEVATION OF PIER IS IN RELATION TO CORRESPONDING BENCHMARK PIER.
 3. REFER TO SHEET SC401 FOR FOUNDATION & LEVELING NUT DETAILS.
 4. REFER TO SHEET SC401 FOR LEVELING NUT ADJUSTMENT DETAIL.

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PROFESSIONAL SEAL

MOHAMED A. ALY
 STRUCTURAL ENGINEER
 No. 50028
 REGISTERED PROFESSIONAL ENGINEER
 COMMONWEALTH OF MASSACHUSETTS

SOLAR CANOPY
 FOR
Sunnova Energy

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW
1	02/21/24	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
Dell Campus

**50 Constitution Blvd,
 Franklin, MA 02038**

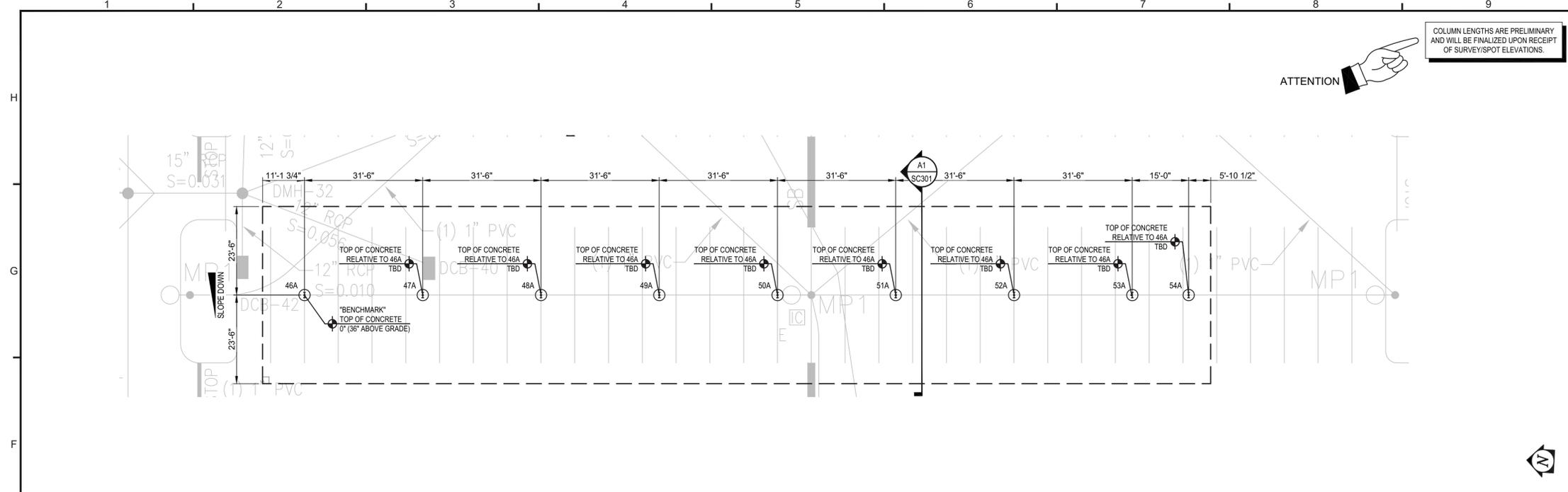
TERRASMART PROJECT No.:
 2370049

DRAWN BY: NCE
 REVIEWED BY: MS

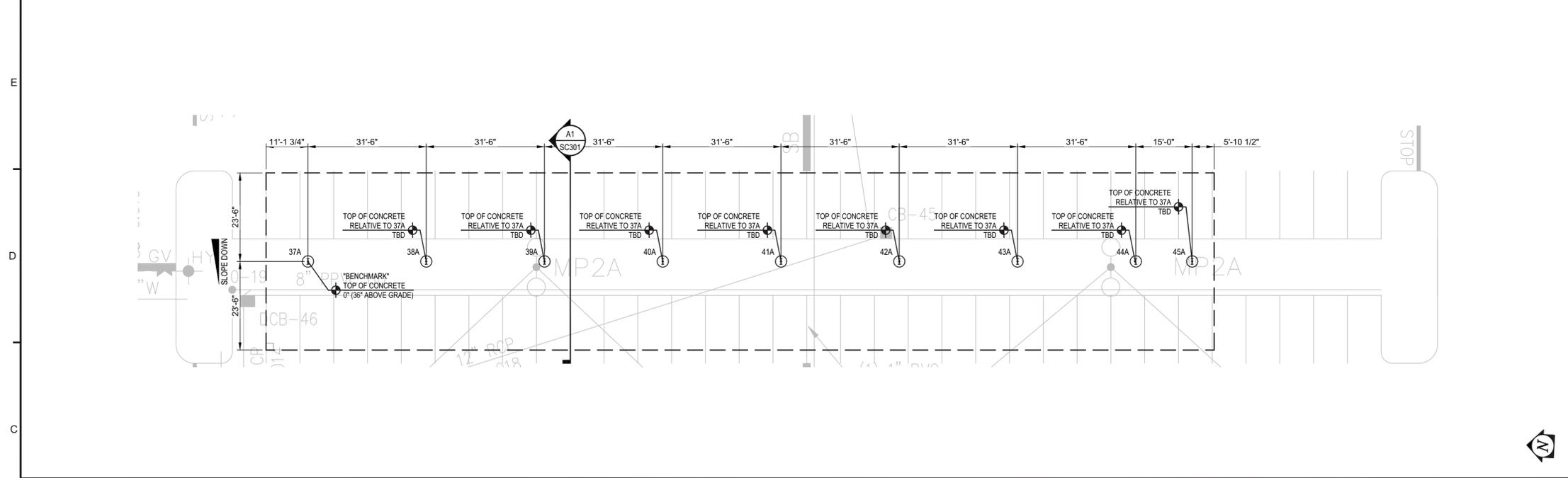
SHEET TITLE:
FOUNDATION AND COLUMN PLAN

SHEET No.:
SC101

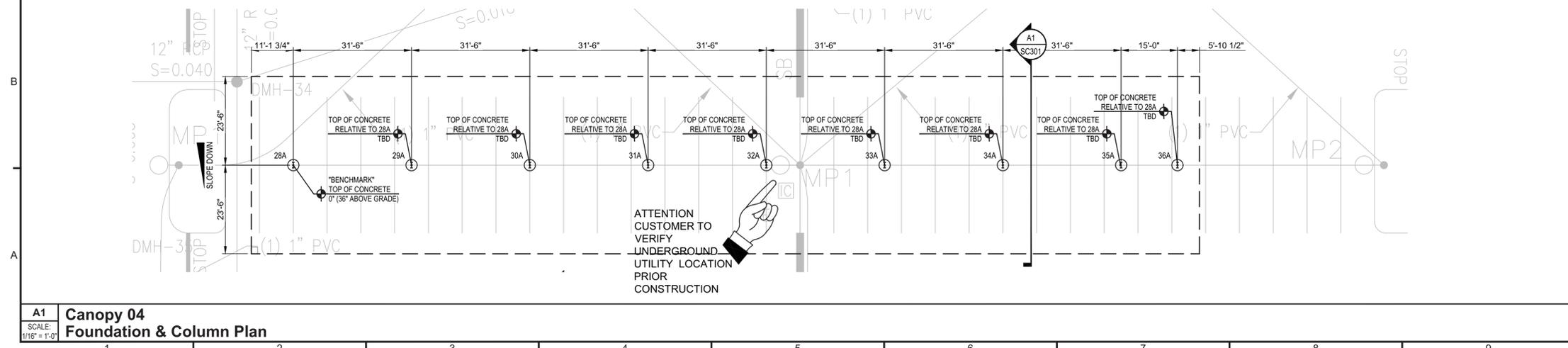
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F1 Canopy 06
Foundation & Column Plan
 SCALE: 1/16" = 1'-0"



C1 Canopy 05
Foundation & Column Plan
 SCALE: 1/16" = 1'-0"



A1 Canopy 04
Foundation & Column Plan
 SCALE: 1/16" = 1'-0"

COLUMN SCHEDULE				
MARK	FNDN. TYPE	DESCRIPTION	PRELIM. LENGTH	LEVELING NUT
28	A	W21 x 62 COLUMN	13'-6"	T.B.D.
29	A	W21 x 62 COLUMN	13'-6"	T.B.D.
30	A	W21 x 62 COLUMN	13'-6"	T.B.D.
31	A	W21 x 62 COLUMN	13'-6"	T.B.D.
32	A	W21 x 62 COLUMN	13'-6"	T.B.D.
33	A	W21 x 62 COLUMN	13'-6"	T.B.D.
34	A	W21 x 62 COLUMN	13'-6"	T.B.D.
35	A	W21 x 62 COLUMN	13'-6"	T.B.D.
36	A	W21 x 62 COLUMN	13'-6"	T.B.D.
37	A	W21 x 62 COLUMN	13'-6"	T.B.D.
38	A	W21 x 62 COLUMN	13'-6"	T.B.D.
39	A	W21 x 62 COLUMN	13'-6"	T.B.D.
40	A	W21 x 62 COLUMN	13'-6"	T.B.D.
41	A	W21 x 62 COLUMN	13'-6"	T.B.D.
42	A	W21 x 62 COLUMN	13'-6"	T.B.D.
43	A	W21 x 62 COLUMN	13'-6"	T.B.D.
44	A	W21 x 62 COLUMN	13'-6"	T.B.D.
45	A	W21 x 62 COLUMN	13'-6"	T.B.D.
46	A	W21 x 62 COLUMN	13'-6"	T.B.D.
47	A	W21 x 62 COLUMN	13'-6"	T.B.D.
48	A	W21 x 62 COLUMN	13'-6"	T.B.D.
49	A	W21 x 62 COLUMN	13'-6"	T.B.D.
50	A	W21 x 62 COLUMN	13'-6"	T.B.D.
51	A	W21 x 62 COLUMN	13'-6"	T.B.D.
52	A	W21 x 62 COLUMN	13'-6"	T.B.D.
53	A	W21 x 62 COLUMN	13'-6"	T.B.D.
54	A	W21 x 62 COLUMN	13'-6"	T.B.D.

COLUMN SETTING NOTES:
 1. ALL COLUMN DIMENSIONS SHOWN ARE ϵ TO ϵ OF COLUMN.
 2. LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 3. DIMENSIONS SHOWN ON PLAN SHALL BE VERIFIED IN THE FIELD.
 4. LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
 5. REFERENCE SHEET SC401 FOR ADDITIONAL FOUNDATION INFORMATION.
 6. "LENGTH" REFERS TO THE CUT LENGTH OF THE COLUMN ON ITS LONGEST FACE.
 7. COLUMN LENGTHS PRELIMINARY. FINAL COLUMN LENGTHS WILL BE DETAILED IN SHOP DRAWINGS.
PIER NOTES:
 1. 0' ELEVATION AT THE BENCHMARK PIER IS FOR REFERENCE ONLY AND IS NOT RELATED TO SEA LEVEL.
 2. TOP OF CONCRETE ELEVATION OF PIER IS IN RELATION TO CORRESPONDING BENCHMARK PIER.
 3. REFER TO SHEET SC401 FOR FOUNDATION & LEVELING NUT DETAILS.
 4. REFER TO SHEET SC401 FOR LEVELING NUT ADJUSTMENT DETAIL.

PROFESSIONAL SEAL

SOLAR CANOPY
 FOR
Sunnova Energy

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW
1	02/21/24	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
Dell Campus

50 Constitution Blvd,
 Franklin, MA 02038

TERRASMART PROJECT No.:
 2370049

DRAWN BY: NCE
 REVIEWED BY: MS

SHEET TITLE:
 FOUNDATION AND
 COLUMN PLAN

SHEET No.:
SC102

S:\REI\SiteDesign\2023\Jobs\2370049 - Sunnova Energy - Dell Campus, MA\Drawings\2370049.dwg, 2:50:05 PM, 12/5/24

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ATTENTION 

COLUMN LENGTHS ARE PRELIMINARY AND WILL BE FINALIZED UPON RECEIPT OF SURVEY/SPOT ELEVATIONS.

COLUMN SCHEDULE				
MARK	FNDN. TYPE	DESCRIPTION	PRELIM. LENGTH	LEVELING NUT
55	A	W21 x 62 COLUMN	13'-6"	T.B.D.
56	A	W21 x 62 COLUMN	13'-6"	T.B.D.
57	A	W21 x 62 COLUMN	13'-6"	T.B.D.
58	A	W21 x 62 COLUMN	13'-6"	T.B.D.
59	A	W21 x 62 COLUMN	13'-6"	T.B.D.
60	A	W21 x 62 COLUMN	13'-6"	T.B.D.
61	A	W21 x 62 COLUMN	13'-6"	T.B.D.
62	A	W21 x 62 COLUMN	13'-6"	T.B.D.
63	A	W21 x 62 COLUMN	13'-6"	T.B.D.

COLUMN SETTING NOTES:

- ALL COLUMN DIMENSIONS SHOWN ARE ϵ TO ϵ OF COLUMN.
- LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- DIMENSIONS SHOWN ON PLAN SHALL BE VERIFIED IN THE FIELD.
- LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
- REFERENCE SHEET SC401 FOR ADDITIONAL FOUNDATION INFORMATION.
- "LENGTH" REFERS TO THE CUT LENGTH OF THE COLUMN ON ITS LONGEST FACE.
- COLUMN LENGTHS PRELIMINARY. FINAL COLUMN LENGTHS WILL BE DETAILED IN SHOP DRAWINGS.

PIER NOTES:

- 0" ELEVATION AT THE BENCHMARK PIER IS FOR REFERENCE ONLY AND IS NOT RELATED TO SEA LEVEL.
- TOP OF CONCRETE ELEVATION OF PIER IS IN RELATION TO CORRESPONDING BENCHMARK PIER.
- REFER TO SHEET SC401 FOR FOUNDATION & LEVELING NUT DETAILS.
- REFER TO SHEET SC401 FOR LEVELING NUT ADJUSTMENT DETAIL.



terrasmart
 6715 STEGER DRIVE
 CINCINNATI, OH 45237
 513.242.2051
 FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY.



SOLAR CANOPY FOR Sunnova Energy

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW
1	02/21/24	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
Dell Campus

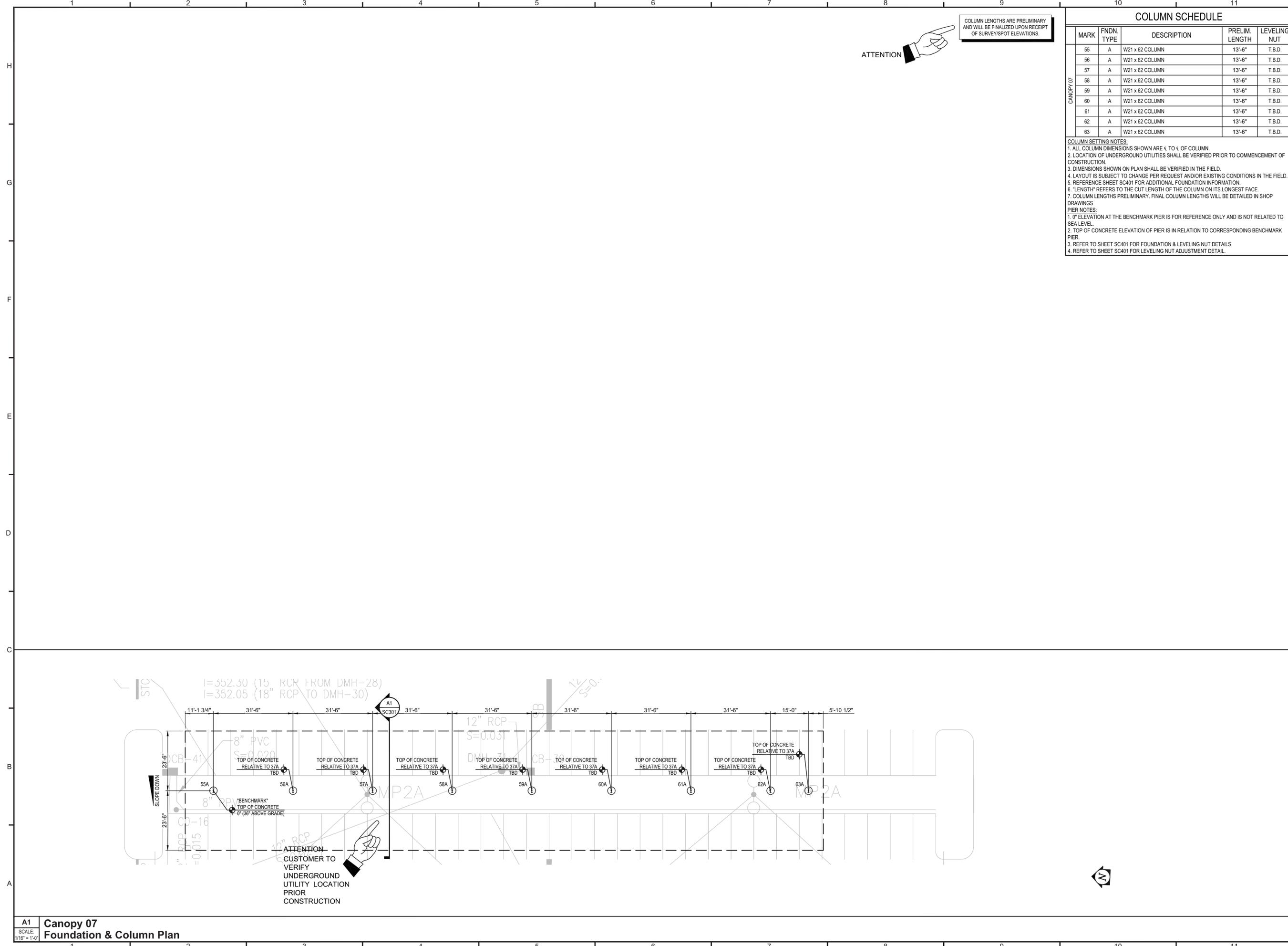
50 Constitution Blvd,
 Franklin, MA 02038

TERRASMART PROJECT No.:
 2370049

DRAWN BY: NCE REVIEWED BY: MS

SHEET TITLE:
FOUNDATION AND COLUMN PLAN

SHEET No.:
SC103



A1 Canopy 07 Foundation & Column Plan

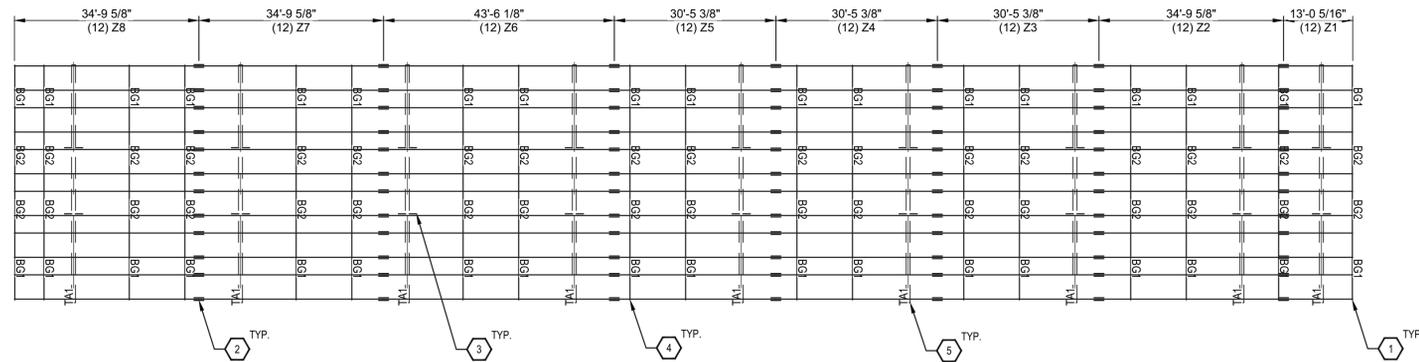
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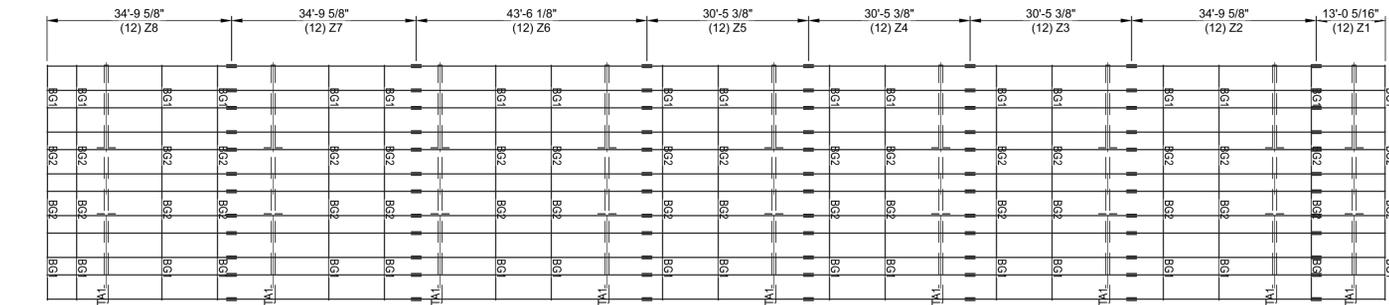
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KEY NOTES

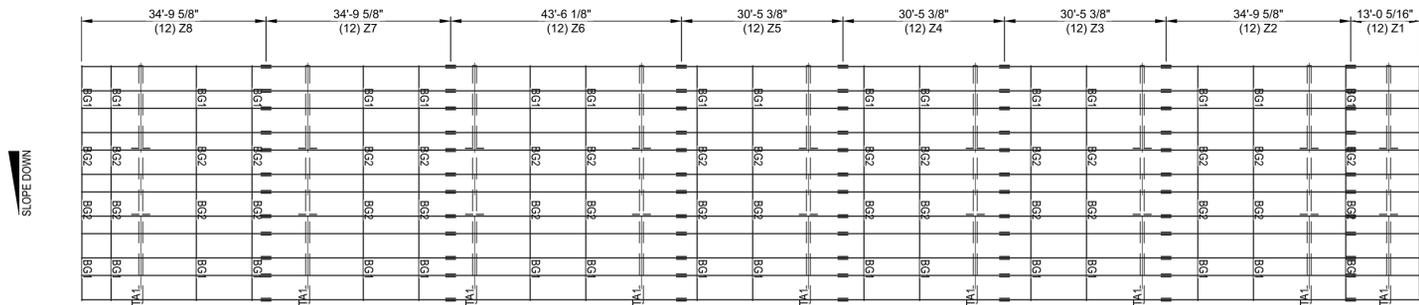
- PURLIN BRIDGING REQUIRED AT END OF THE CANOPY - REFER TO DETAIL A10 ON SHEET SC501 - REFER TO DETAIL A8 ON SHEET SC501 FOR BRIDGING SPLICE
- PURLIN SPLICE - REFER TO DETAIL A1 ON SHEET SC501
- TOP BEAM BRACE - REFER TO DETAIL C6 ON SHEET SC501
- PURLIN BRIDGING REQUIRED AT ALL BAYS - REFER TO DETAIL A6 ON SHEET SC501 - REFER TO DETAIL A8 ON SHEET SC501 FOR BRIDGING SPLICE
- TOP BEAM BELOW.



F1 CANOPY 03
Component Plan
SCALE: 1/16" = 1'-0"



C1 CANOPY 02
Component Plan
SCALE: 1/16" = 1'-0"

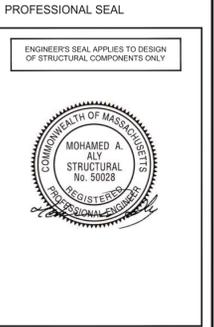


A1 CANOPY 01
Component Plan
SCALE: 1/16" = 1'-0"

COMPONENT SCHEDULE

MARK	DESCRIPTION	LENGTH	QTY.
TA1	TOP BEAM W24x68	45'-0"	9
Z1	13.25" 10 Ga. GALVANIZED ZEE	13'-0 5/16"	12
Z2	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z3	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z4	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z5	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z6S	13.25" 10 Ga. GALVANIZED ZEE - STARTER	43'-6 1/8"	12
Z7	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z8	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
BG1	12 Ga. FORMED ANGLE	12'-0"	36
BG2	12 Ga. FORMED ANGLE	10'-2 5/8"	36
SG1	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
SG2	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG3	SNOW GUARD - 8" x 8" x 5/8"	31'-5 5/8"	4
SG4	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG5	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
TA1	TOP BEAM W24x68	45'-0"	9
Z1	13.25" 10 Ga. GALVANIZED ZEE	13'-0 5/16"	12
Z2	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z3	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z4	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z5	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z6S	13.25" 10 Ga. GALVANIZED ZEE - STARTER	43'-6 1/8"	12
Z7	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z8	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
BG1	12 Ga. FORMED ANGLE	12'-0"	36
BG2	12 Ga. FORMED ANGLE	10'-2 5/8"	36
SG1	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
SG2	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG3	SNOW GUARD - 8" x 8" x 5/8"	31'-5 5/8"	4
SG4	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG5	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
TA1	TOP BEAM W24x68	45'-0"	9
Z1	13.25" 10 Ga. GALVANIZED ZEE	13'-0 5/16"	12
Z2	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z3	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z4	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z5	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z6S	13.25" 10 Ga. GALVANIZED ZEE - STARTER	43'-6 1/8"	12
Z7	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z8	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
BG1	12 Ga. FORMED ANGLE	12'-0"	36
BG2	12 Ga. FORMED ANGLE	10'-2 5/8"	36
SG1	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
SG2	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG3	SNOW GUARD - 8" x 8" x 5/8"	31'-5 5/8"	4
SG4	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG5	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1

- COMPONENT SETTING NOTES:
- ALL COMPONENT DIMENSIONS SHOWN ARE END TO END.
 - LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
 - REFERENCE SHEET SC501 FOR ADDITIONAL COMPONENT CONNECTION INFORMATION.
 - PURLIN MARKS ENDING WITH "S" REFER TO STARTER PURLINS AND ARE INTENDED TO BE INSTALLED FIRST WITHIN THAT CANOPY.
 - ERECT TOP BEAM WITH PIECE MARK ORIENTED TO MATCH LOCATION SHOWN ON PLAN.



SOLAR CANOPY
FOR
Sunnova Energy

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
Dell Campus

**50 Constitution Blvd,
Franklin, MA 02038**

TERRASMART PROJECT No.:
2370049

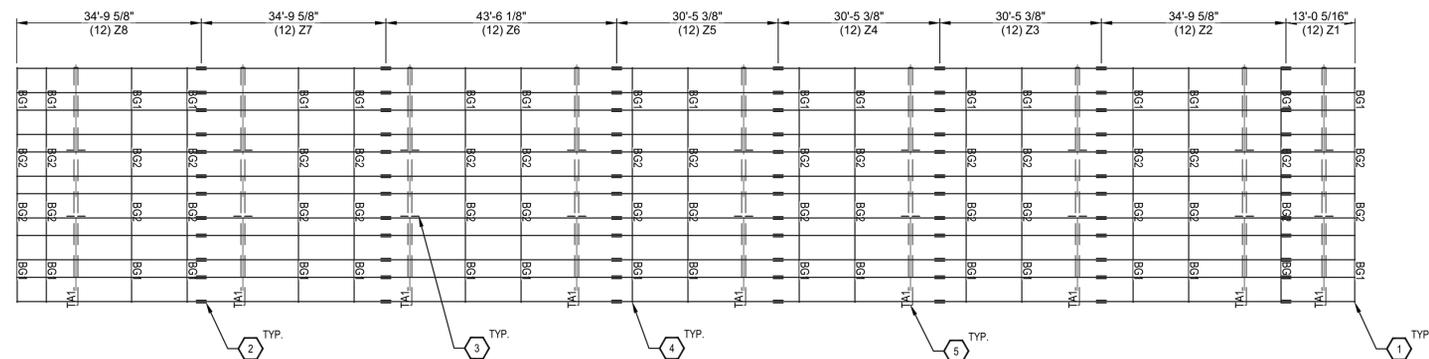
DRAWN BY: NCE
REVIEWED BY: MS

SHEET TITLE:
COMPONENT PLAN

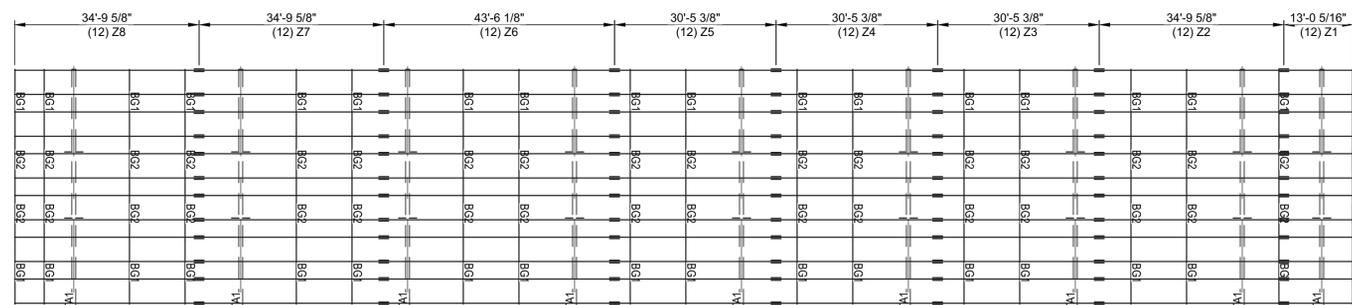
SHEET No.:
SC104

KEY NOTES

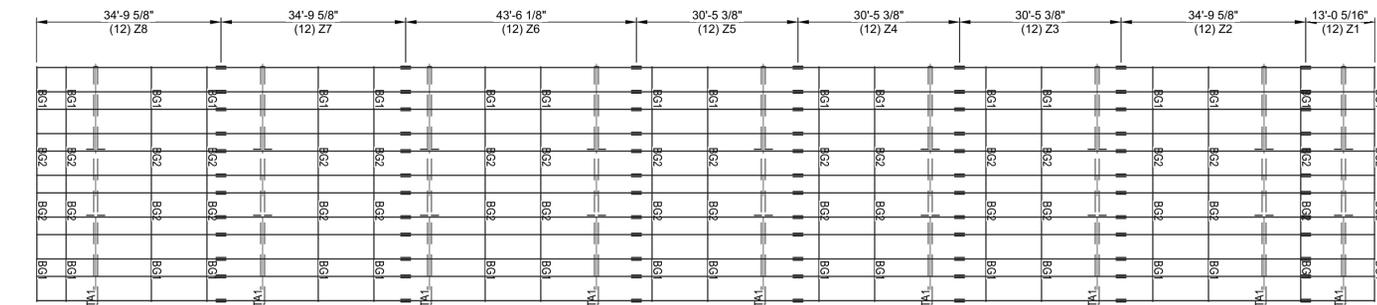
- PURLIN BRIDGING REQUIRED AT END OF THE CANOPY - REFER TO DETAIL A10 ON SHEET SC501 - REFER TO DETAIL A8 ON SHEET SC501 FOR BRIDGING SPLICE
- PURLIN SPLICE - REFER TO DETAIL A1 ON SHEET SC501
- TOP BEAM BRACE - REFER TO DETAIL C6 ON SHEET SC501
- PURLIN BRIDGING REQUIRED AT ALL BAYS - REFER TO DETAIL A6 ON SHEET SC501 - REFER TO DETAIL A8 ON SHEET SC501 FOR BRIDGING SPLICE
- TOP BEAM BELOW.



F1 CANOPY 06
Component Plan
SCALE: 1/16" = 1'-0"



C1 CANOPY 05
Component Plan
SCALE: 1/16" = 1'-0"



A1 CANOPY 04
Component Plan
SCALE: 1/16" = 1'-0"

COMPONENT SCHEDULE

MARK	DESCRIPTION	LENGTH	QTY.
CANOPY 04			
TA1	TOP BEAM W24x68	45'-0"	9
Z1	13.25" 10 Ga. GALVANIZED ZEE	13'-0 5/16"	12
Z2	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z3	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z4	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z5	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z6S	13.25" 10 Ga. GALVANIZED ZEE - STARTER	43'-6 1/8"	12
Z7	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z8	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
BG1	12 Ga. FORMED ANGLE	12'-0"	36
BG2	12 Ga. FORMED ANGLE	10'-2 5/8"	36
SG1	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
SG2	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG3	SNOW GUARD - 8" x 8" x 5/8"	31'-5 5/8"	4
SG4	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG5	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
CANOPY 05			
TA1	TOP BEAM W24x68	45'-0"	9
Z1	13.25" 10 Ga. GALVANIZED ZEE	13'-0 5/16"	12
Z2	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z3	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z4	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z5	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z6S	13.25" 10 Ga. GALVANIZED ZEE - STARTER	43'-6 1/8"	12
Z7	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z8	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
BG1	12 Ga. FORMED ANGLE	12'-0"	36
BG2	12 Ga. FORMED ANGLE	10'-2 5/8"	36
SG1	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
SG2	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG3	SNOW GUARD - 8" x 8" x 5/8"	31'-5 5/8"	4
SG4	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG5	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
CANOPY 06			
TA1	TOP BEAM W24x68	45'-0"	9
Z1	13.25" 10 Ga. GALVANIZED ZEE	13'-0 5/16"	12
Z2	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z3	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z4	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z5	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z6S	13.25" 10 Ga. GALVANIZED ZEE - STARTER	43'-6 1/8"	12
Z7	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z8	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
BG1	12 Ga. FORMED ANGLE	12'-0"	36
BG2	12 Ga. FORMED ANGLE	10'-2 5/8"	36
SG1	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1
SG2	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG3	SNOW GUARD - 8" x 8" x 5/8"	31'-5 5/8"	4
SG4	SNOW GUARD - 8" x 8" x 5/8"	36'-0"	1
SG5	SNOW GUARD - 8" x 8" x 5/8"	38'-1"	1

- COMPONENT SETTING NOTES:**
- ALL COMPONENT DIMENSIONS SHOWN ARE END TO END.
 - LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
 - REFERENCE SHEET SC501 FOR ADDITIONAL COMPONENT CONNECTION INFORMATION.
 - PURLIN MARKS ENDING WITH "S" REFER TO STARTER PURLINS AND ARE INTENDED TO BE INSTALLED FIRST WITHIN THAT CANOPY.
 - ERECT TOP BEAM WITH PIECE MARK ORIENTED TO MATCH LOCATION SHOWN ON PLAN.

terrasmart™
6715 STEGER DRIVE
CINCINNATI, OH 45237
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

SOLAR CANOPY FOR Sunnova Energy

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
Dell Campus

50 Constitution Blvd,
Franklin, MA 02038

TERRASMART PROJECT No.:
2370049

DRAWN BY: NCE
REVIEWED BY: MS

SHEET TITLE:
COMPONENT PLAN

SHEET No.:
SC105

KEY NOTES

- PURLIN BRIDGING REQUIRED AT END OF THE CANOPY - REFER TO DETAIL A10 ON SHEET SC501 - REFER TO DETAIL A8 ON SHEET SC501 FOR BRIDGING SPLICE
- PURLIN SPLICE - REFER TO DETAIL A1 ON SHEET SC501
- TOP BEAM BRACE - REFER TO DETAIL C6 ON SHEET SC501
- PURLIN BRIDGING REQUIRED AT ALL BAYS - REFER TO DETAIL A6 ON SHEET SC501 - REFER TO DETAIL A8 ON SHEET SC501 FOR BRIDGING SPLICE
- TOP BEAM BELOW.

COMPONENT SCHEDULE

MARK	DESCRIPTION	LENGTH	QTY.
TA1	W24 x 68	45'-0"	9
Z1	13.25" 10 Ga. GALVANIZED ZEE	13'-0 5/16"	12
Z2	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z3	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z4	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z5	13.25" 10 Ga. GALVANIZED ZEE	30'-5 3/8"	12
Z6S	13.25" 10 Ga. GALVANIZED ZEE - STARTER	43'-6 1/8"	12
Z7	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
Z8	13.25" 10 Ga. GALVANIZED ZEE	34'-9 5/8"	12
BG1	12 Ga. FORMED ANGLE	12'-0"	36
BG2	12 Ga. FORMED ANGLE	10'-2 5/8"	36

- COMPONENT SETTING NOTES:
- ALL COMPONENT DIMENSIONS SHOWN ARE END TO END.
 - LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
 - REFERENCE SHEET SC501 FOR ADDITIONAL COMPONENT CONNECTION INFORMATION.
 - PURLIN MARKS ENDING WITH "S" REFER TO STARTER PURLINS AND ARE INTENDED TO BE INSTALLED FIRST WITHIN THAT CANOPY.
 - ERECT TOP BEAM WITH PIECE MARK ORIENTED TO MATCH LOCATION SHOWN ON PLAN.



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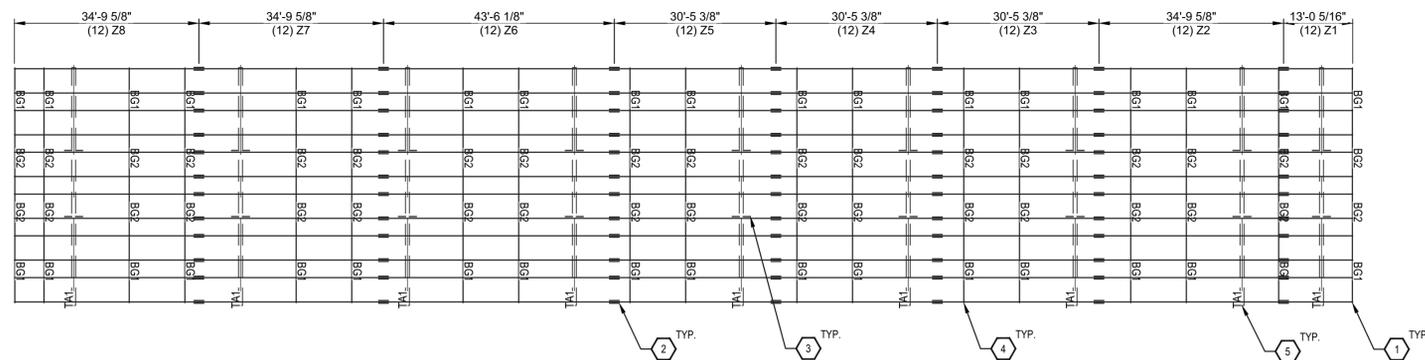
SOLAR CANOPY FOR Sunnova Energy

RELEASE RECORD

MARK	DATE	DESCRIPTION
5	02/05/25	STAMPED
4	11/12/24	STAMPED
3	06/28/24	STAMPED
2	06/26/24	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS: Dell Campus	
50 Constitution Blvd, Franklin, MA 02038	
TERRASMART PROJECT No.: 2370049	
DRAWN BY: NCE	REVIEWED BY: MS
SHEET TITLE: COMPONENT PLAN	
SHEET No.: SC106	



A1 CANOPY 07
SCALE: 1/16" = 1'-0"
Component Plan

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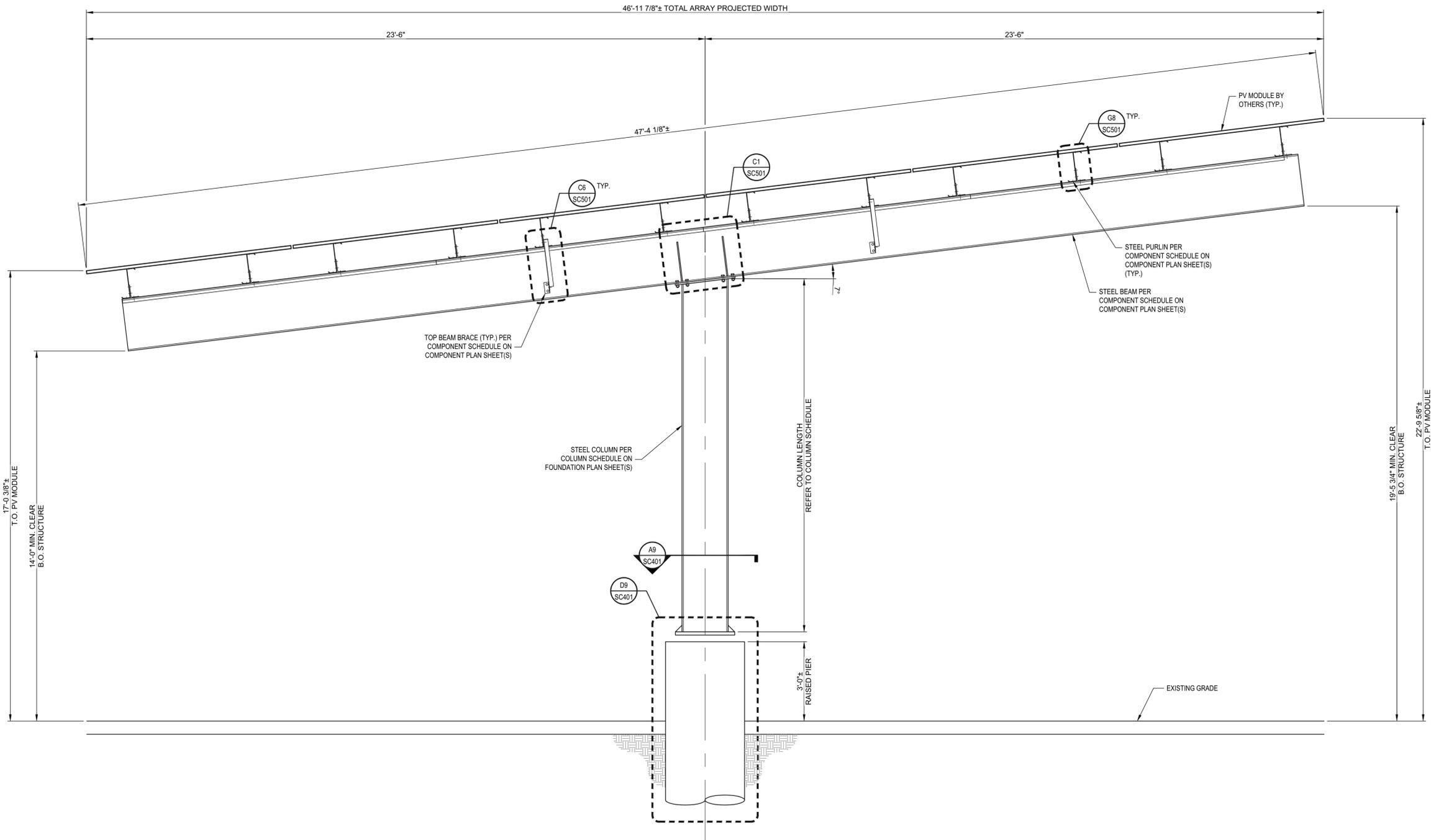
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5	02/05/25	STAMPED
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3	06/28/24	STAMPED
2	06/26/24	90% REVIEW
1	02/21/24	50% REVIEW

PROJECT INFORMATION

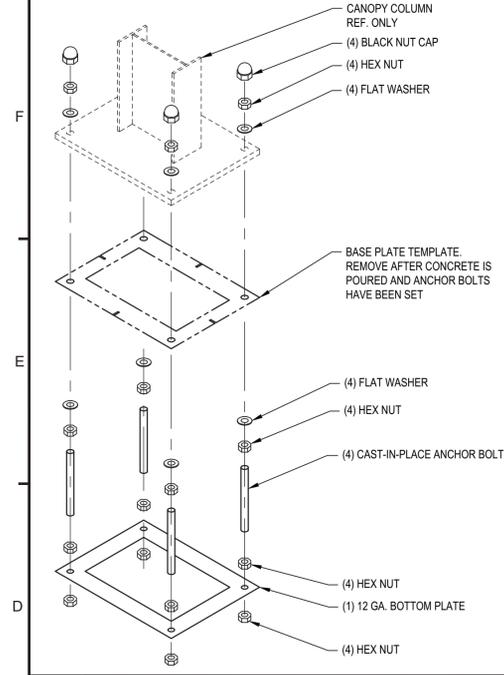
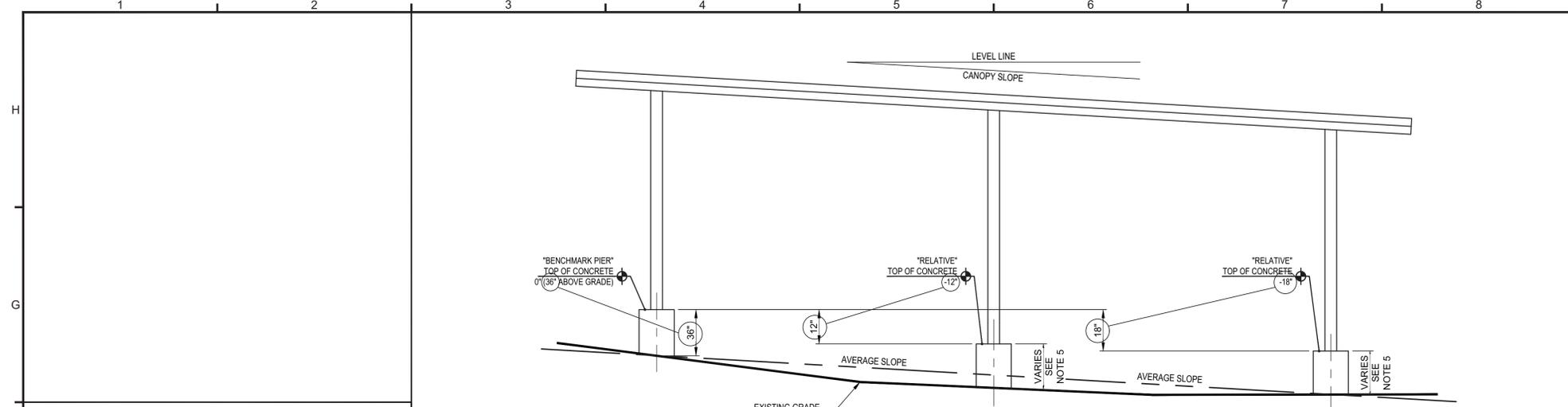
TITLE & ADDRESS: Dell Campus	
50 Constitution Blvd, Franklin, MA 02038	
TERRASMART PROJECT No.: 2370049	
DRAWN BY: NCE	REVIEWED BY: MS
SHEET TITLE: CANOPY SECTION	
SHEET No.: SC301	



A1 Canopies 1 - 7 Section
 SCALE: 1/2" = 1'-0"

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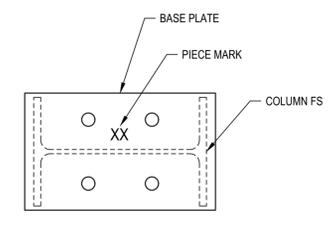
KEY POINTS

- CANOPY ARRAY IS PARALLEL TO AVERAGE SITE GRADE
- CANOPY ARRAY SLOPE MAY VARY PER STRUCTURE
- COLUMN LENGTHS MAY VARY
- REFER TO FOUNDATION PLAN FOR ACTUAL "BENCHMARK" LOCATION AND ADDITIONAL FOUNDATION LOCATIONS
- HOLDING A "RELATIVE" FOUNDATION TOP OF CONCRETE IN RELATION TO THE "BENCHMARK" FOUNDATION TOP OF CONCRETE IS CRITICAL. FINISHED FOUNDATION HEIGHTS MAY ONLY VARY RELATIVE TO ADJACENT GRADE AND NOT THE "BENCHMARK" FOUNDATION
- COLUMN LENGTHS ARE CALCULATED USING THE INDIVIDUAL FOUNDATION "TOP OF CONCRETE" ELEVATIONS

F3 Top Of Concrete Layout Key
SCALE: 1/12" = 1'-0"

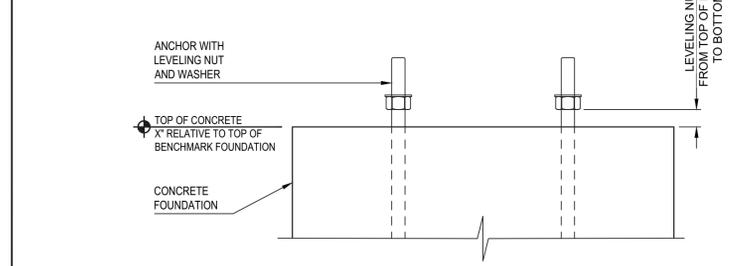
NOTE:

- REFER TO FOUNDATION PLAN FOR COLUMN PIECE MARK SCHEDULE.
- PIECE MARK LOCATED ON UNDERSIDE OF BASE PLATE.
- DETAIL FOR REFERENCE ONLY. BASE PLATE AND COLUMN SHAPE WILL VARY PER PROJECT.



NOTE:

- REFER TO COLUMN SCHEDULE FOR FOUNDATION HEIGHTS AND LEVELING NUT HEIGHTS.
- FIELD VERIFY ALL FOUNDATION HEIGHTS.
- IF ACTUAL FOUNDATION HEIGHT IS DIFFERENT FROM DESIGNED VALUE WITHIN THIS CONSTRUCTION SET, THEN ADJUST LEVELING NUT HEIGHT AS REQUIRED TO MAKE UP DISCREPANCY IN FOUNDATION HEIGHT.
- LEVELING NUT HEIGHT NOT TO EXCEED 2 5/8". CONTACT A TERRASMART, INC. REPRESENTATIVE FOR APPROVAL IF ADDITIONAL HEIGHT IS REQUIRED.

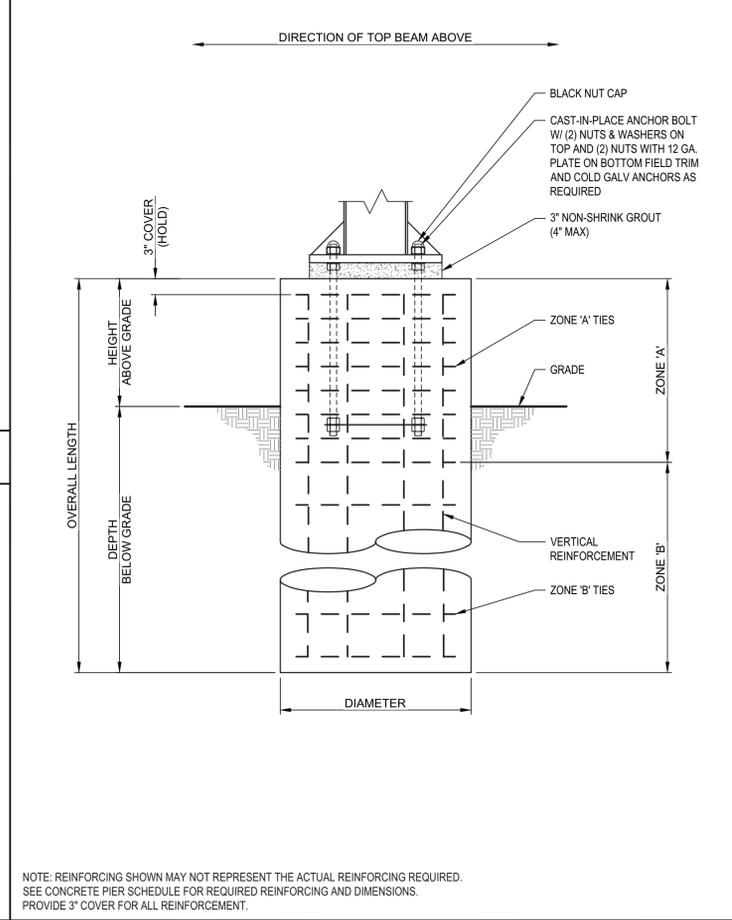


D6 Leveling Nut Detail Side View
SCALE: 1/12" = 1'-0"

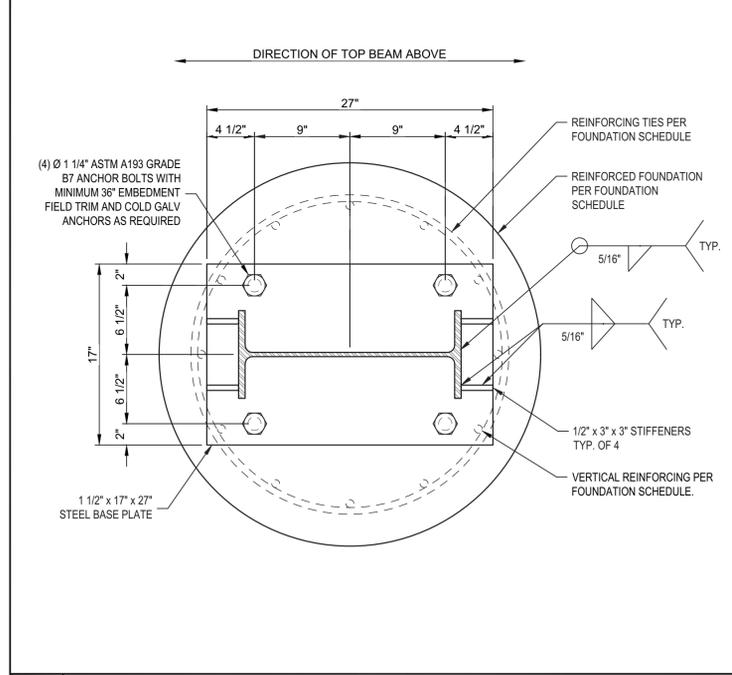
TYPE	SIZE				REINFORCEMENT		
	DIAMETER	TOP OF FOUNDATION	DEPTH BELOW GRADE	APPROX. OVERALL LENGTH	VERTICAL REINFORCEMENT	ZONE 'A' REINFORCEMENT TIES	ZONE 'B' REINFORCEMENT TIES
A	36"	RAISED	10'-6"	13'-6"	(12) #6 BARS	#5 BARS @ 4" O.C. FOR 36"	#5 BARS @ 10" O.C. FOR REMAINDER

NOTE:

- ALL REINFORCING TO HAVE 3" MINIMUM COVER
- REFERENCE THE FOUNDATION PLAN FOR DESIGNED HEIGHT ABOVE GRADE VALUES. SEE LEVELING NUT DETAIL FOR ADJUSTMENTS.



D9 Typical Pier Side View
SCALE: 3/4" = 1'-0"



A9 Base Plate Detail
SCALE: 1/12" = 1'-0"

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3	06/28/24	STAMPED
2	06/26/24	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
Dell Campus

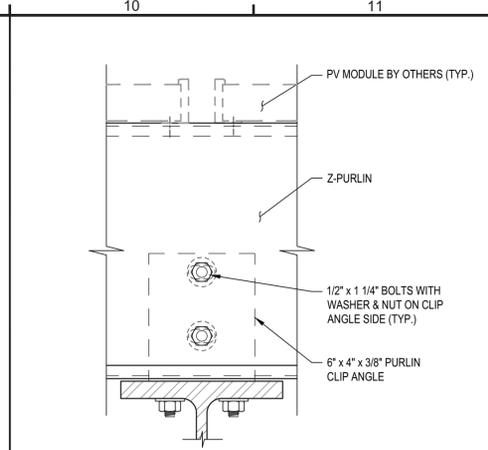
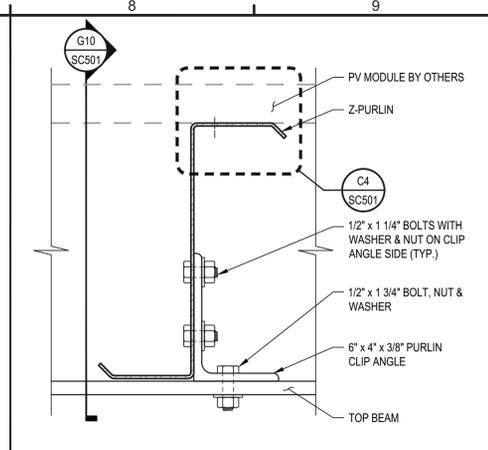
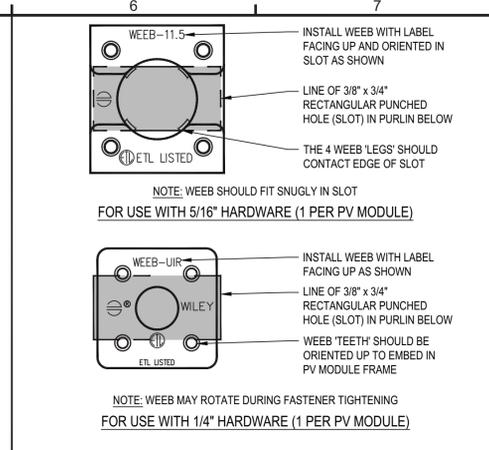
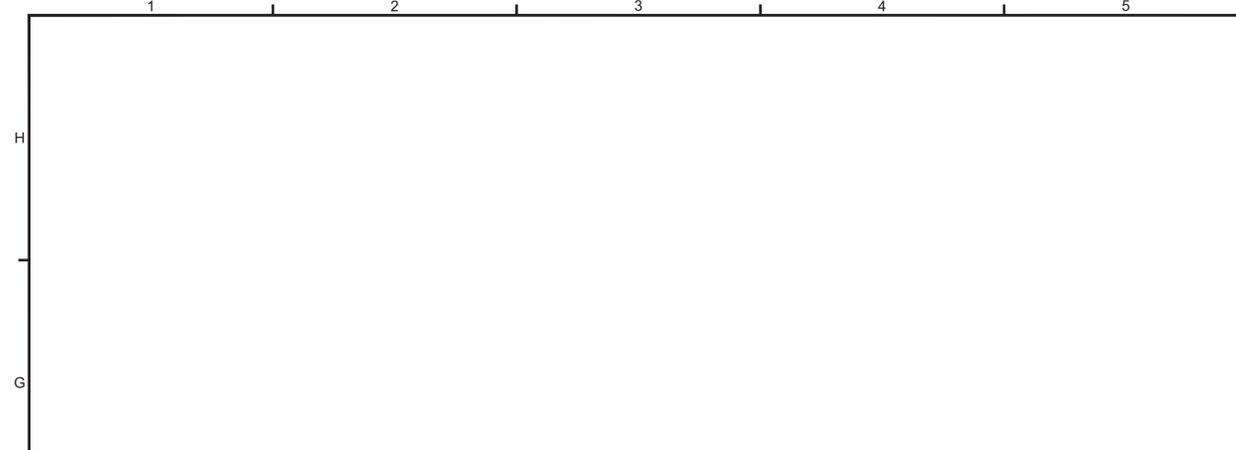
50 Constitution Blvd,
Franklin, MA 02038

TERRASMART PROJECT No.:
2370049

DRAWN BY: NCE
REVIEWED BY: MS

SHEET TITLE:
FOUNDATION AND BASE PLATE DETAILS

SHEET No.:
SC401



G6 WEEB PV Module Bonding Washer Detail
SCALE: NONE

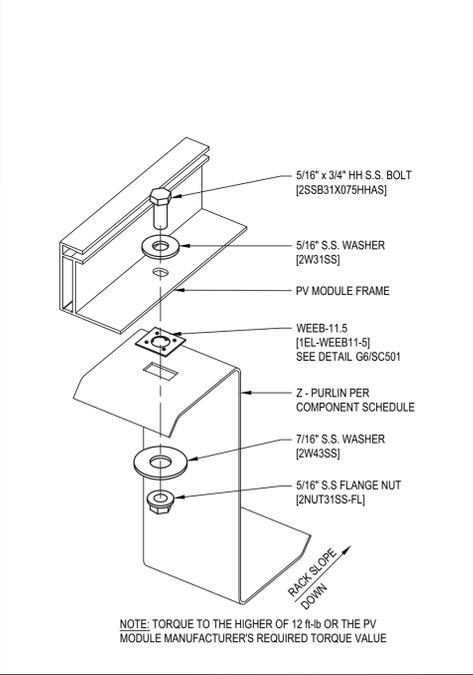
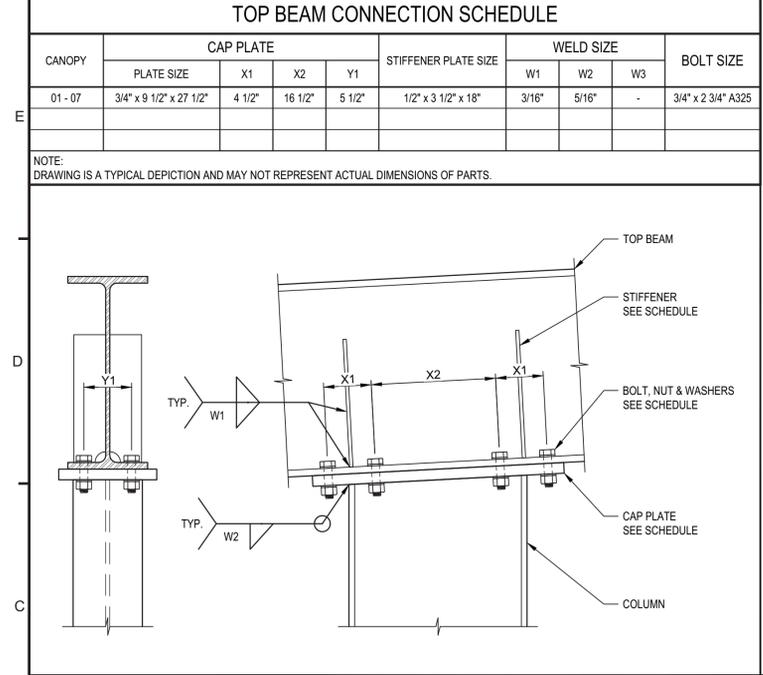
G8 Purlin Connection Transverse Detail
SCALE: 3" = 1'-0"

G10 Purlin Connection Longitudinal Section
SCALE: 3" = 1'-0"

TOP BEAM CONNECTION SCHEDULE

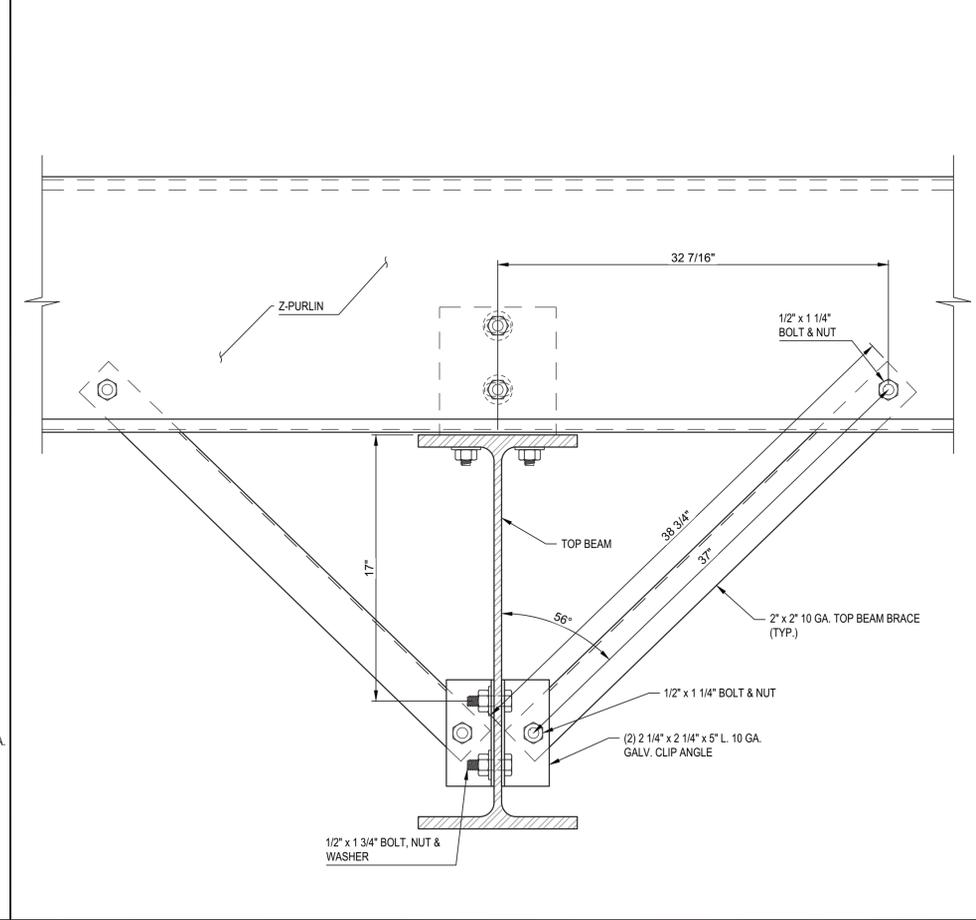
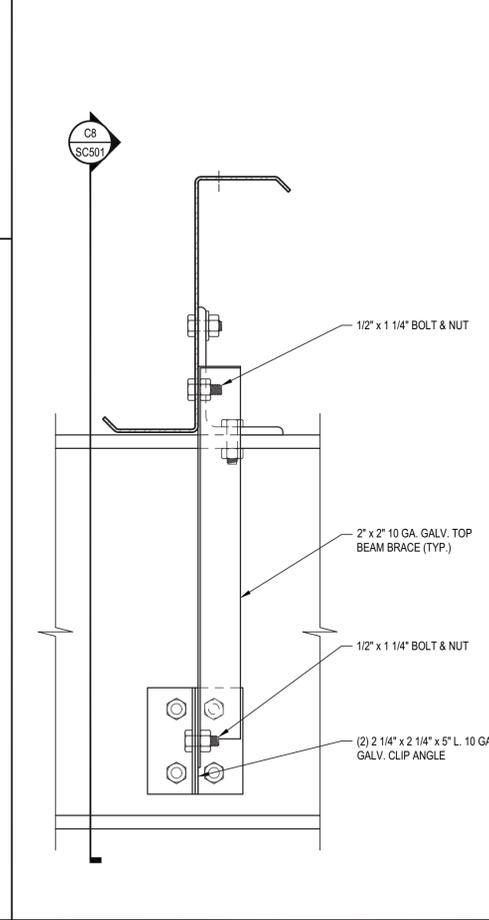
CANOPY	CAP PLATE			STIFFENER PLATE SIZE	WELD SIZE			BOLT SIZE	
	PLATE SIZE	X1	X2		Y1	W1	W2		W3
01 - 07	3/4" x 9 1/2" x 27 1/2"	4 1/2"	16 1/2"	5 1/2"	1/2" x 3 1/2" x 18"	3/16"	5/16"	-	3/4" x 2 3/4" A325

NOTE: DRAWING IS A TYPICAL DEPICTION AND MAY NOT REPRESENT ACTUAL DIMENSIONS OF PARTS.



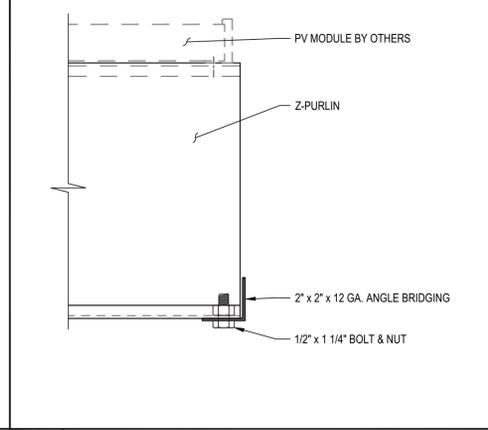
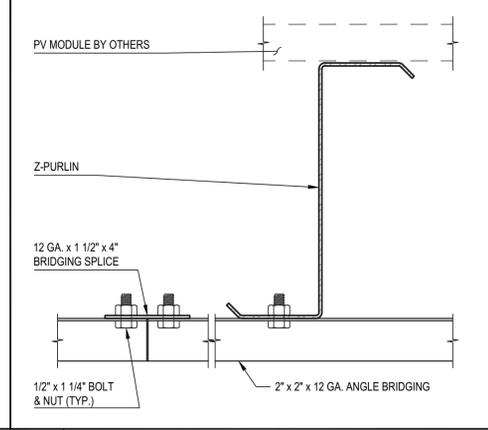
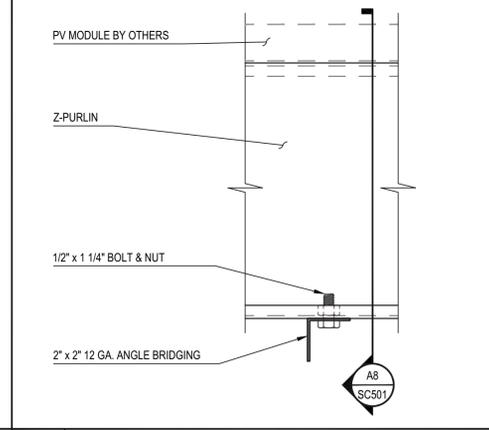
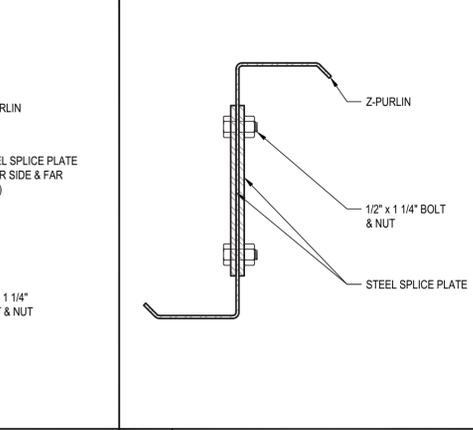
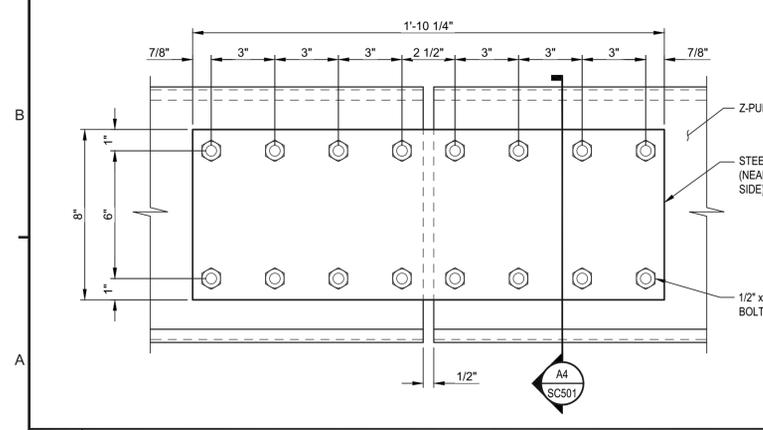
C1 Top Beam To Column Connection Detail
SCALE: 1-1/2" = 1'-0"

C4 Expanded PV Module Frame to Z-Purlin Connection Detail
SCALE: NONE



C6 Top Beam Flange Brace Connection Detail
SCALE: 3" = 1'-0"

C8 Top Beam Flange Brace Connection Section
SCALE: 3" = 1'-0"



A1 Purlin Splice Connection
SCALE: 3" = 1'-0"

A4 Purlin Splice Connection
SCALE: 3" = 1'-0"

A6 Purlin Bridging Intermediate Condition
SCALE: 3" = 1'-0"

A8 Purlin Bridging Splice Connection
SCALE: 3" = 1'-0"

A10 Purlin Bridging End Condition
SCALE: 3" = 1'-0"

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3	06/28/24	STAMPED
2	06/26/24	90% REVIEW

PROJECT INFORMATION
TITLE & ADDRESS:
Dell Campus
50 Constitution Blvd, Franklin, MA 02038
TERRASMARK PROJECT No.: 2370049
DRAWN BY: NCE
REVIEWED BY: MS
SHEET TITLE:
COMPONENT DETAILS
SHEET No.:
SC501

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