

ADDENDUM 3 OF 37 TO MASTER SOLAR CANOPY LAND LEASE AND AGREEMENT

This is Addendum 3 of 37 to the Master Solar Canopy Land Lease and Agreement ("Agreement"), dated as of November 1, 2016 (the "Effective Date"), as amended, by and between TGC III MA Portfolio Operating, LLC, a Delaware limited liability company, with a usual place of business at 315 Post Road West, Westport, Connecticut, 06880, as successor-in-interest to Omni-Navitas – MAP-ES MA, LLC (hereinafter the "Grantee"), and the Massachusetts Bay Transportation Authority, a body politic and corporate and a political subdivision of the Commonwealth of Massachusetts established and existing pursuant to Chapter 161A of the Massachusetts General Laws with a usual place of business at Ten Park Plaza, Boston, Massachusetts 02116 ("Grantor" or "MBTA") (each a "Party"; collectively, the "Parties").

- 1) **PREMISES ADDRESS:** 190 Summer Street, Hingham, Massachusetts (hereinafter "Site 3"), as more particularly shown on attached *Exhibit 1* marked "Plan of Premises for Site 3".

In connection with Site 3, Grantee has certain rights as described in the Agreement for the installation, commissioning, operation, maintenance, alteration, and removal of the System.

- 2) **POWER/ELECTRICAL CONNECTION, USAGE, AND BILLING FOR SITE 3:** Pursuant to Section 8(d) of the Agreement, Grantee shall not have the right to access any of Grantor's utilities. Notwithstanding the foregoing, Grantee hereby acknowledges and agrees that Grantee shall be permitted to connect to and use Grantor's electricity, following MBTA's prior review and written approval of Grantee's plans and specifications (electrical or otherwise) for Site 3, such approval to be at Grantor's sole discretion, provided that Grantee shall be solely responsible for any and all costs and expenses, and shall reimburse MBTA where applicable, for the electrical equipment, including, but not limited to, meters/sub-meters and labor, as well as for the use of any MBTA utilities/power during the installation, commissioning, operation, maintenance, alteration, and removal of the System at Site 3. Grantee shall reimburse MBTA for any and all electricity drawn in connection with any illumination/lighting used to light the areas under and around the System at Site 3.


- Grantee **REQUIRES** access to MBTA utilities to power the System.
- Grantee submitted all plans and specifications (electrical or otherwise) to MBTA and received MBTA approval to connect to MBTA utilities/power at Site 3.
 - Grantee acknowledges and agrees that it is solely responsible for all costs and expenses for all review and approvals necessary to tie into MBTA utilities/power. Grantee shall also be responsible for all costs and expenses, including for all MBTA approved equipment and labor (MBTA or otherwise), required to tie into MBTA utilities/power, and the ongoing maintenance thereof (pursuant to the terms and conditions of the Agreement).
 - Based off the meter reading at the Site, Grantee shall coordinate electrical billing with MBTA Environmental Affairs Department and shall be responsible for all costs.

- [X] Grantee **DOES NOT REQUIRE** access to MBTA utilities to power the System.
- 3) **CONSTRUCTION PLANS, SPECIFICATIONS, AND DESCRIPTIONS OF SYSTEM FOR SITE 3:** See attached *Exhibit 2* marked "Construction Plans, Specifications, and Description of System for Site 3".
 - 4) **ACCESS PLAN FOR SITE 3:** See attached *Exhibit 3* marked "Access Plan for Site 3".
 - 5) **RENT FOR SITE 3:** Per Exhibit B "Rent Schedule and Security Deposits", \$ 16,000.00 Year One (1) Rent, with annual Rent escalations of 7% every five (5) years.
 - 6) **SECURITY DEPOSIT FOR SITE 3:** \$1,333.33.
 - 7) **RENT COMMENCEMENT DATE FOR SITE 3:** The payment of rent shall commence upon the earlier of the date which is 180 days from May 7, 2018 or upon the commercial completion date (estimated to be August 15, 2018).
 - 8) **TERM COMMENCEMENT DATE FOR SITE 3:** November 1, 2016.
 - 9) **TERM EXPIRATION DATE FOR SITE 3:** October 31, 2038.
 - 10) **PERFORMANCE BOND FOR SITE 3:** Pursuant to Section 5(d) of the Agreement, Grantee shall provide Grantor a payment, performance bond, and lien bond for Site 3 in the amount of Five Hundred Ninety Thousand Eight Hundred Eleven Dollars and Eighty One Cents (\$590,811.11)
 - 11) **DATE DECOMMISSIONING BOND IS DUE FOR SITE 3:** Pursuant to Section 5(e) of the Agreement, Grantee shall provide Grantor a payment, performance, and lien bond for the amount of the demolition, dismantling, or alteration of the System at Site 3 on or before the 15th anniversary of the Rent Commencement Date.
 - 12) **PERMITTED ENCUMBRANCES FOR SITE 3:** See attached *Exhibit 4* marked "Permitted Encumbrances for Site 3".
 - 13) **MBTA CRANE REQUIREMENTS DURING CONSTRUCTION:** See attached *Exhibit 5* marked "MBTA Crane Requirements".
 - 14) **ELECTRICAL METALLIC TUBING CONDUIT "EMT" ACKNOWLEDGEMENT:** See attached *Exhibit 6* marked "Electrical Metallic Tubing Conduit Acknowledgement Letter".

[Signatures follow on next page]

IN WITNESS THEREOF, the Parties hereto have caused this Addendum to be executed by their duly authorized representatives as of the 17TH day of MAY, 2018.

**GRANTOR;
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY**

By: 
Name: PAUL BRANDLET
Title: CFO

Approved as to form:

By: 
Lauren D. Armstrong
Deputy General Counsel, MassDOT and MBTA

**GRANTEE;
TGC III MA PORTFOLIO OPERATING, LLC**

By: 
Name: BRUCE WIEGAND
Title: AUTHORIZED OFFICER

[Exhibits start on the following page]

EXHIBIT 1: PLAN OF PREMISES FOR SITE 3

BTA SOLAR SITES

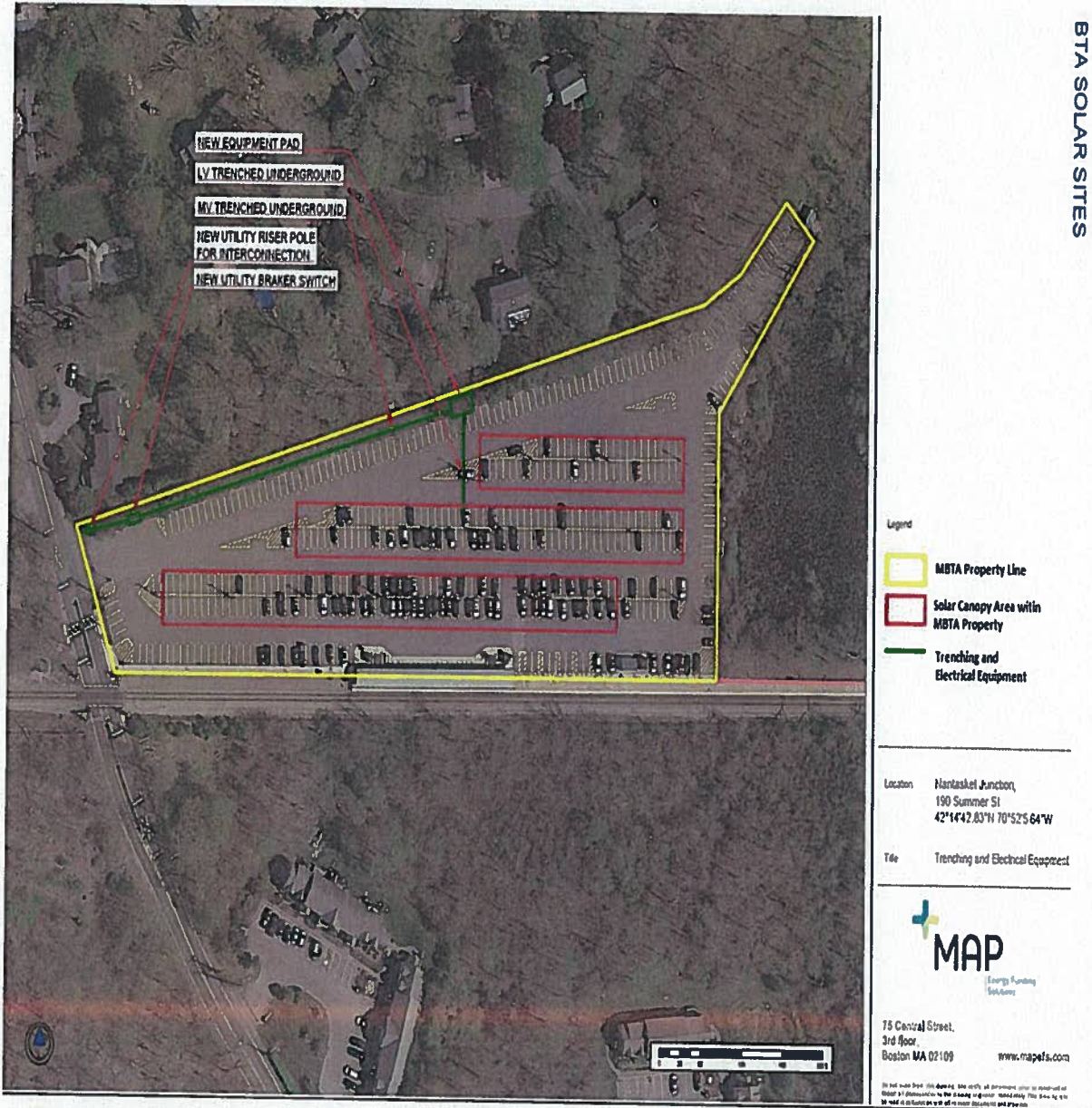


EXHIBIT 2

CONSTRUCTION PLANS, SPECIFICATIONS, AND DESCRIPTION OF SYSTEM FOR SITE 3

(See attached separate documents)

FOR CONSTRUCTION

SCOPE OF WORK

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE (NEC) AND THE 2015 INTERNATIONAL BUILDING CODE (IBC) WITH THE EXCEPTIONS LISTED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES HAVING JURISDICTION.

SYSTEM RATING

- 1W DC SIC
- 1W DC PTC
- 1W CEC-AC

EQUIPMENT SUMMARY

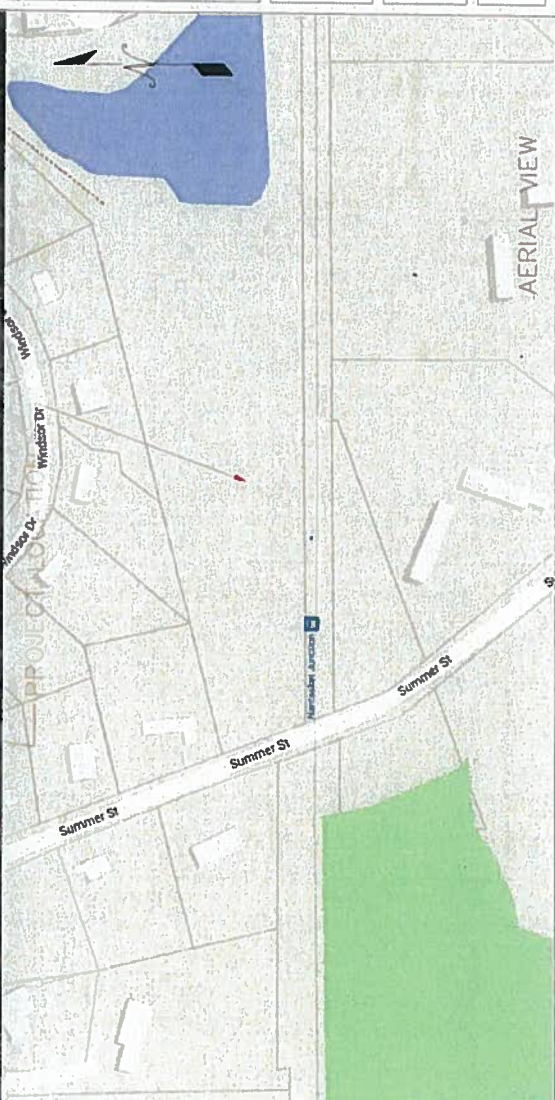
SEE SCHEDULE 1 FOR EQUIPMENT SUMMARY

SHEET INDEX

- PV-11 COVER
- PV-10 GENERAL NOTES COND.
- PV-9 GENERAL NOTES COND.
- PV-8 EQUIPMENT LAYOUT
- PV-7 SITE PLAN
- PV-6 STAGING AND SAFETY
- PV-5 PV STRING DIAGRAM
- PV-4 PV STRING CONFIGURATION
- PV-3 CONDUIT RUNS
- PV-2 PAD LAYOUT AND CONDUIT PLANS
- PV-1 STRUCTURAL MEMBERS DETAILS
- PV-10 COMPONENTS DETAILS
- PV-9 GROUNDING DETAILS
- PV-11 ELECTRICAL OVERVIEW
- E-1 1-LINE DIAGRAM
- E-2 INVERTER 3-LINE
- E-3 1-LINE
- E-4 1-LINE
- E-5 DATA ACQUISITION SYSTEM
- E-6 WIRING LABELS
- E-7 LIGHTING SITE PLAN
- L-1 LIGHTING EQUIPMENT OVERVIEW
- L-2 LIGHTING EQUIPMENT OVERVIEW
- L-3 LIGHTING ELECTRICAL

GOVERNING CODES

- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL BUILDING CODE
- UNDERWATERS LABORATORIES (ULL) STANDARDS
- OSHA 29 CFR 1910.269



DESIGN & DRAWING BY:
PROJECT NO. 18-01
DATE: 01/15/2018
SCALE: AS SHOWN

REVISIONS	DATE	REV
ISSUED FOR PERMIT	01/15/2018	A

CONTRACTOR:

SUNALCON DESIGN GROUP
25 PARKWAY, SUITE 100
ROSELAND, MA 01968

PROJECT NAME:
LANTANET JUNCTION 181A
130 SUMMER ST
HIGHLAND, MA 02043

SHEET NAME:
COVER

SHEET SIZE:
ANSI B
11" X 17"

SHEET NUMBER:
PV-1.1

DESIGN & DRAWING BY:
 RICHARD VOLKIN
 MA. ENG. #22292

REVISIONS	DESCRIPTION	DATE	REV

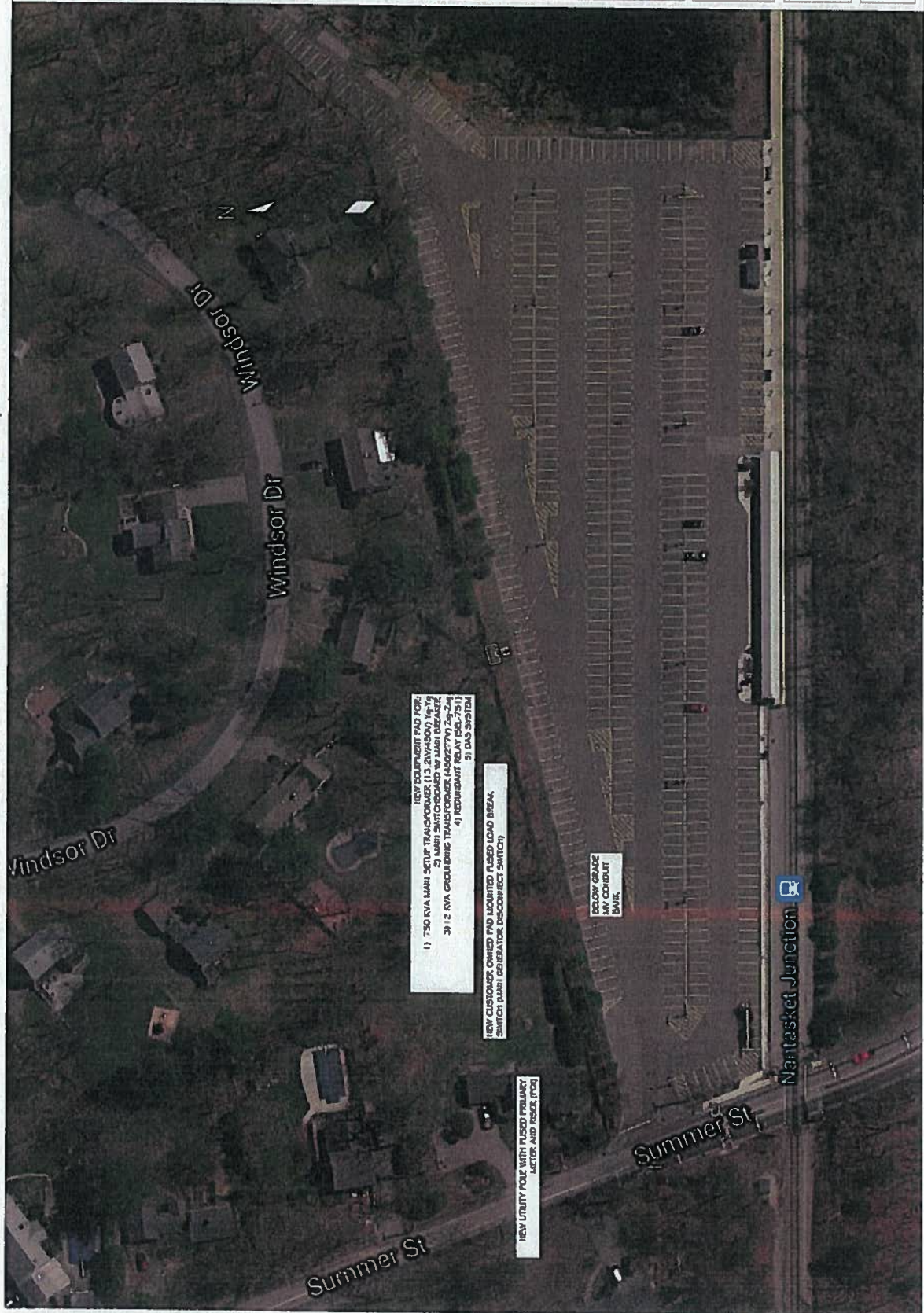
CONTRACTOR/JOBUSE#

PROJECT NAME
 NANTASKET JUNCTION MBTA
 190 SUMMER ST
 HINGHAM, MA 02043

SHEET NAME
 SITE PLAN
 MEDIUM
 VOLTAGE

SHEET SIZE
 ANSI-B
 11" x 17"

SHEET NUMBER
 PV-2.1



NEW COMPACT PAD FOR:
 1) 750 KVA MARI SETUP TRANSFORMER (1.5, 20VA4500) 15'x16'
 2) MARI SWITCHBOARD W/ MARI BREAKER
 3) 12 KVA GROUNDED TRANSFORMER (4602770) 25'-24"
 4) REQUIREMENT FOR 120V/208V/277V
 5) 20' PAD SYSTEM

NEW CUSTOMER OWNED PAD LOCATED FUSED LOAD BREAK
 SWITCH (MARI GENERATOR DISCONNECT SWITCH)

NEW UTILITY POLE WITH FUSED PRIMARY
 FACTOR AND POSE (POD)

NEW GROUND
 LAY CONDUIT
 BANK

Nantasket Junction

Summer St

Summer St

Windsor Dr

Windsor Dr

Windsor Dr

DESIGN & DRAWING BY:
 RICHARD VOLKIN
 MA ENG. #22282

REVISIONS	DATE	REV

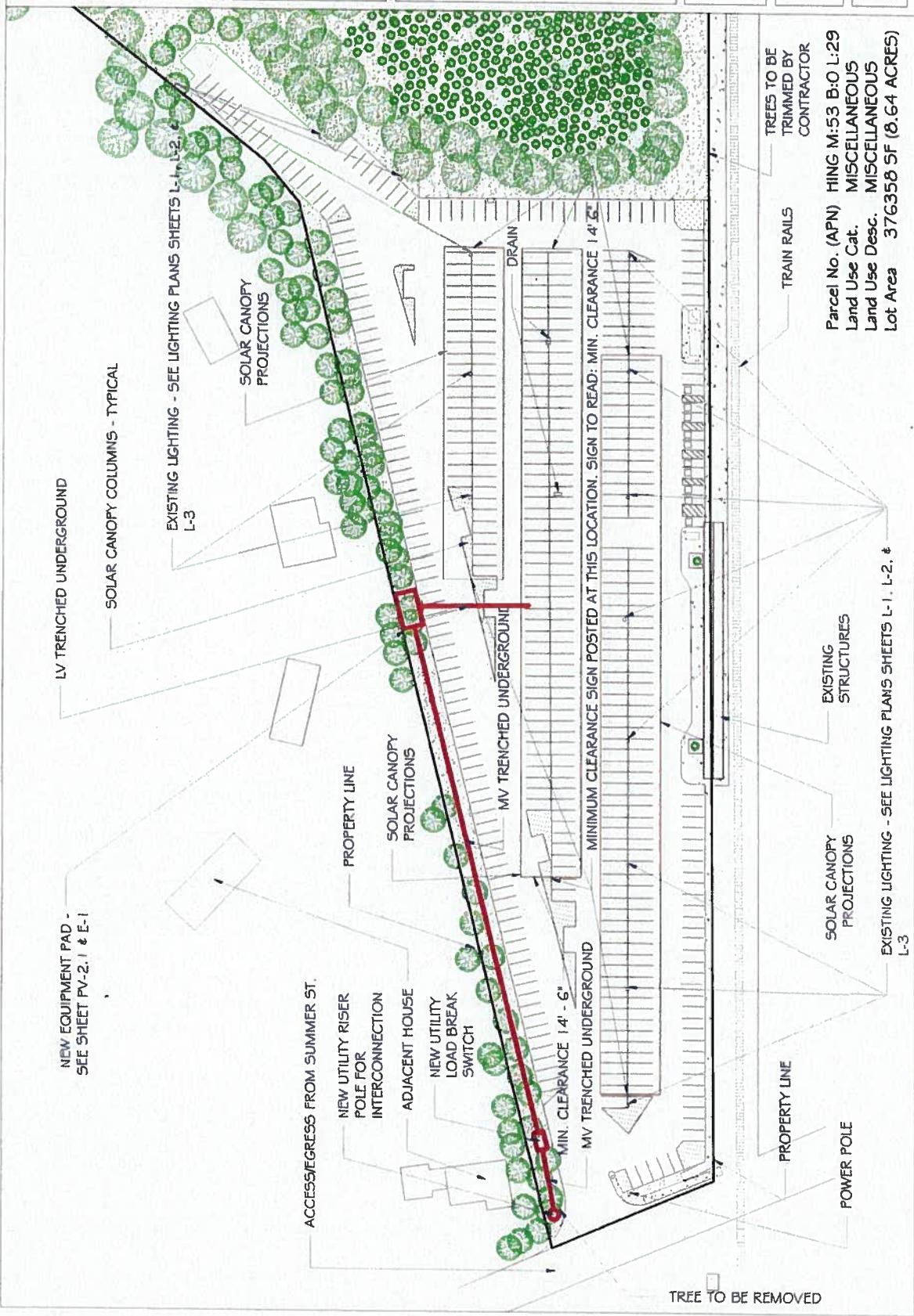
CONTRACTOR/ADDRESS #

PROJECT NAME:
 NANTASSET JUNCTION AREA
 190 SUMNER ST
 HINGHAM, MA 02043

SHEET NAME:
 SITE PLAN

SHEET SIZE:
 ANSI-B
 11" x 17"

SHEET NUMBER:
 PV-2.3



Parcel No. (APN) HING M-53 B:0 L:29
 Land Use Cat. MISCELLANEOUS
 Land Use Desc. MISCELLANEOUS
 Lot Area 376358 SF (8.64 ACRES)

DESIGN & DRAWING BY
MICHAEL W. S. AN
1000 S. UNIVERSITY AVENUE
ANN ARBOR, MI 48106

REVISIONS	DATE	REV
DESCRIPTION		A
REVISION		

CONTRACTOR

STANLEY HEAVENBERG CONSULTANTS
1000 S. UNIVERSITY AVENUE
ANN ARBOR, MI 48106

PROJECT NAME
MICHIGAN STATE UNIVERSITY
1000 S. UNIVERSITY AVENUE
ANN ARBOR, MI 48106

SHEET NAME

SHEET SIZE
ANSI B
11" x 17"

SHEET NUMBER
PV-4.1



CANOPY 3:
532 MODULES
4 INVERTERS



CANOPY 2:
1008 MODULES
7 INVERTERS



CANOPY 1:
1183 MODULES
8 INVERTERS



2723 Modules (STAVE 320W MONO)
DC Output: 514.80 kW (DC)
RBI: 5 Degree Tilt
Inter-Row Spacing: 1.00"
Inter-Column Spacing: 1.00"

DESIGN & DRAFTING BY
 DIMITRIOS ADAMIS
 REG. ELECTRICAL ENGINEER
 0142276

REVISION	DATE	REV
ORIGINAL	08/20/2014	A
BY PERSON		

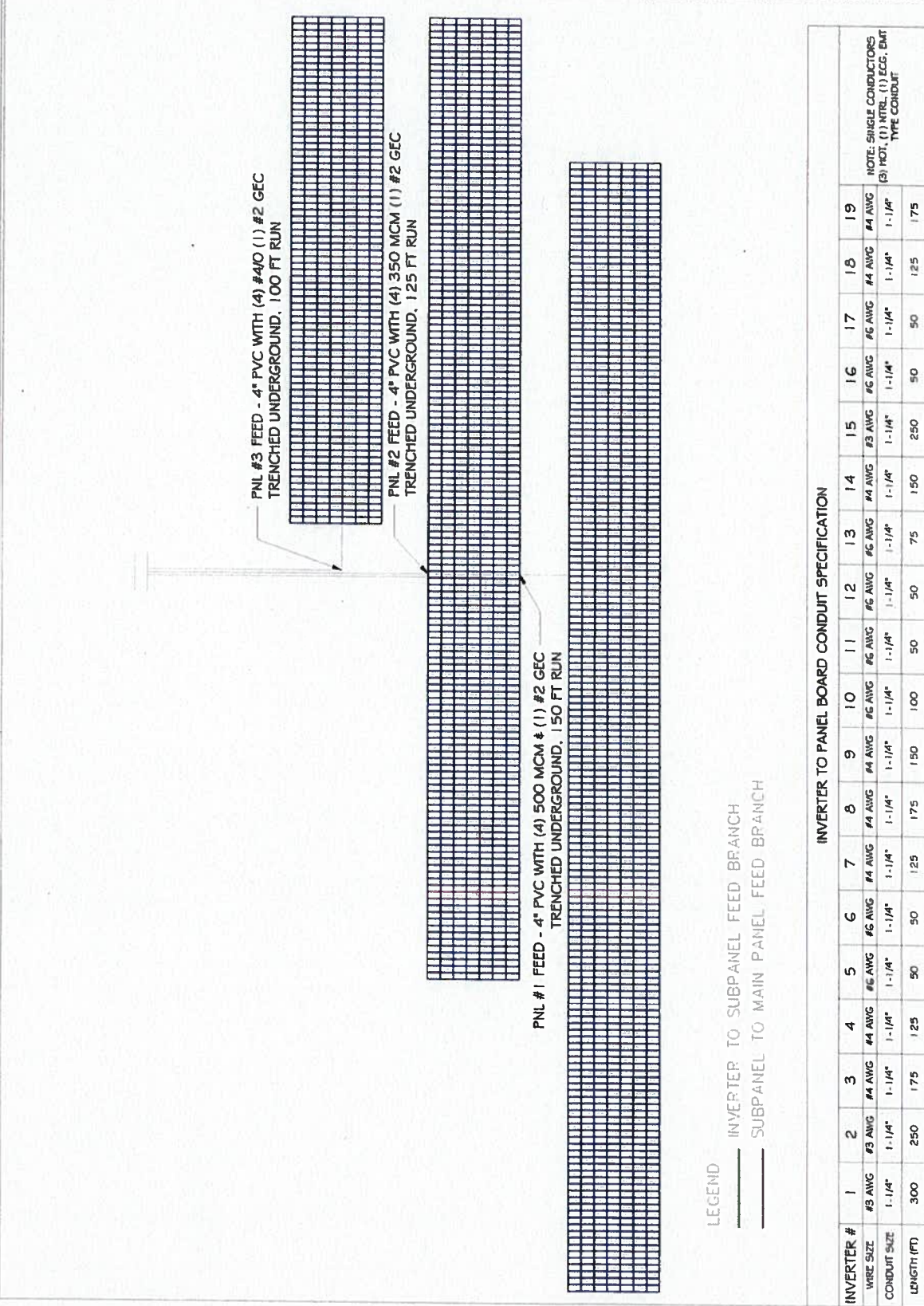
CONTRACTOR
 HANSON ELECTRICAL, INC.
 200 PARKWAY #100
 WILSONVILLE, OR 97158

PROJECT NAME
 JAR TOWER ELECTRICAL

SHEET NAME
 CONDUIT RUNS

SHEET SIZE
 ANSI B
 11" x 17"

SHEET NUMBER
 PV-5



LEGEND
 _____ INVERTER TO SUBPANEL FEED BRANCH
 _____ SUBPANEL TO MAIN PANEL FEED BRANCH

INVERTER TO PANEL BOARD CONDUIT SPECIFICATION

INVERTER #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
WIRE SIZE	#3 AWG	#3 AWG	#4 AWG	#4 AWG	#6 AWG	#6 AWG	#4 AWG	#4 AWG	#4 AWG	#6 AWG	#6 AWG	#6 AWG	#6 AWG	#4 AWG	#3 AWG	#6 AWG	#6 AWG	#4 AWG	#4 AWG
CONDUIT SIZE	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
LENGTH (FT)	300	250	175	125	50	50	125	175	150	100	50	50	75	150	250	50	50	125	175

NOTE: SINGLE CONDUCTORS
 (3) HOT, (1) NEUT, (1) EGC, BMT
 TYPE CONDUIT

DESIGN & DRAWING BY:
 ENGINEER: [Name]
 DATE: [Date]

REVISION	DATE	BY	APP'D
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

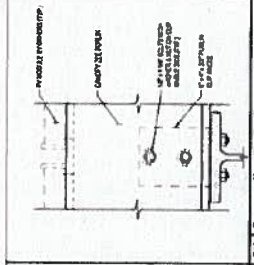
CONTRACTOR:
 [Name]
 [Address]
 [City, State, Zip]

PROJECT NAME:
 [Name]
 [Address]
 [City, State, Zip]

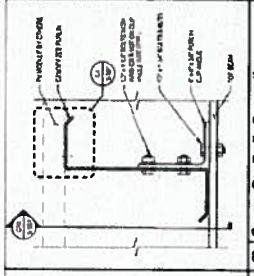
SHEET NAME:
**COMPONENTS
 DETAILS**

SHEET SIZE:
 ANSI B
 11" x 17"

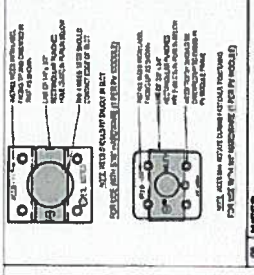
SHEET NUMBER:
PV-8



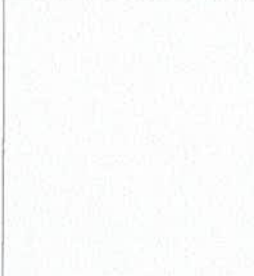
A1 Canopy Zee Purlin Connection Splice Connection



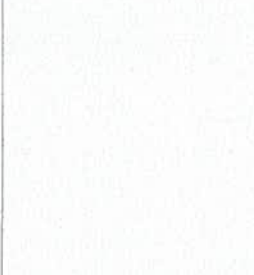
A2 Canopy Zee Purlin Connection Intermediate Condition



A3 Canopy Zee Purlin Connection End Condition



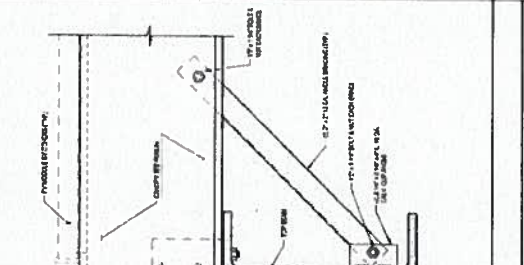
A4 Canopy Zee Purlin Connection



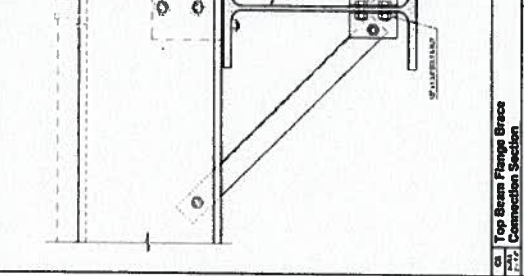
A5 Canopy Zee Purlin Connection



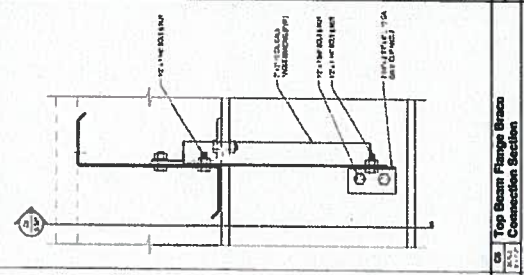
A6 Canopy Zee Purlin Connection



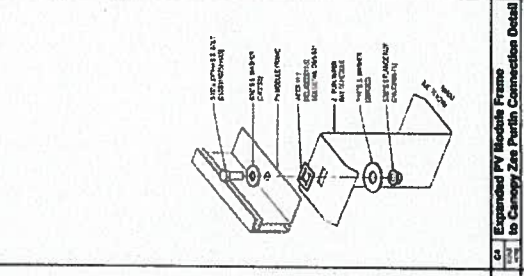
B1 Top Beam Flange Brace Connection Section



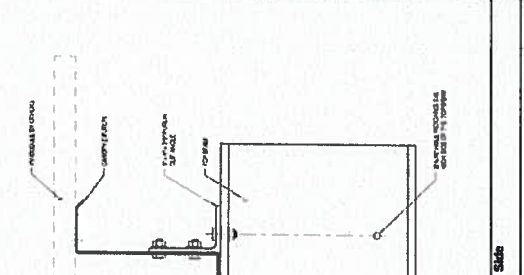
B2 Top Beam Flange Brace Connection Section



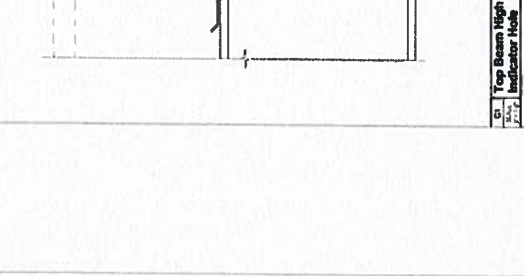
B3 Top Beam Flange Brace Connection Section



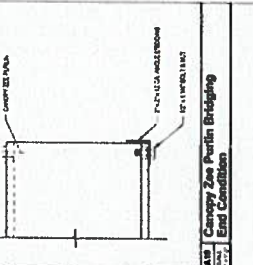
B4 Top Beam Flange Brace Connection Section



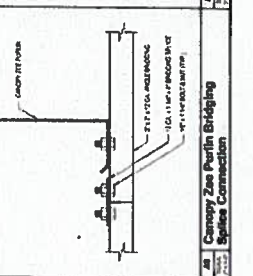
B5 Top Beam Flange Brace Connection Section



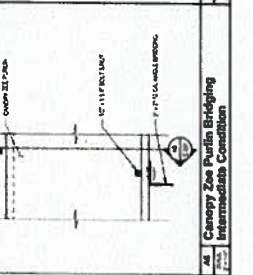
B6 Top Beam Flange Brace Connection Section



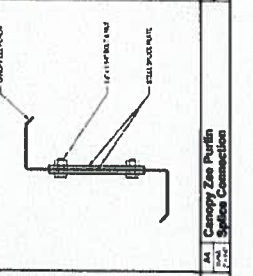
C1 Top Beam Flange Brace Connection Section



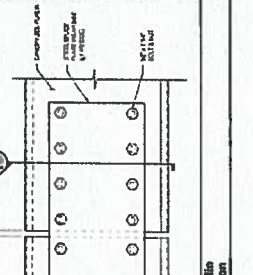
C2 Top Beam Flange Brace Connection Section



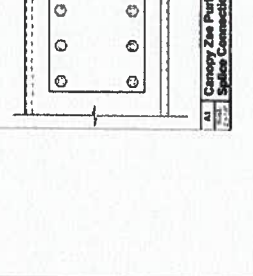
C3 Top Beam Flange Brace Connection Section



C4 Top Beam Flange Brace Connection Section



C5 Top Beam Flange Brace Connection Section



C6 Top Beam Flange Brace Connection Section

DESIGN & PREPARED BY
 DWYER ENGINEERING, INC.
 100 E. 10TH ST., SUITE 200
 DENVER, CO 80202

REVISIONS	DATE	BY

CONTRACTOR
 ...
 ...

PROJECT NAME
 ...
 ...

SHEET NAME
 INVERTER
 3-LINE

SHEET SIZE
 ANSI B
 11" x 17"

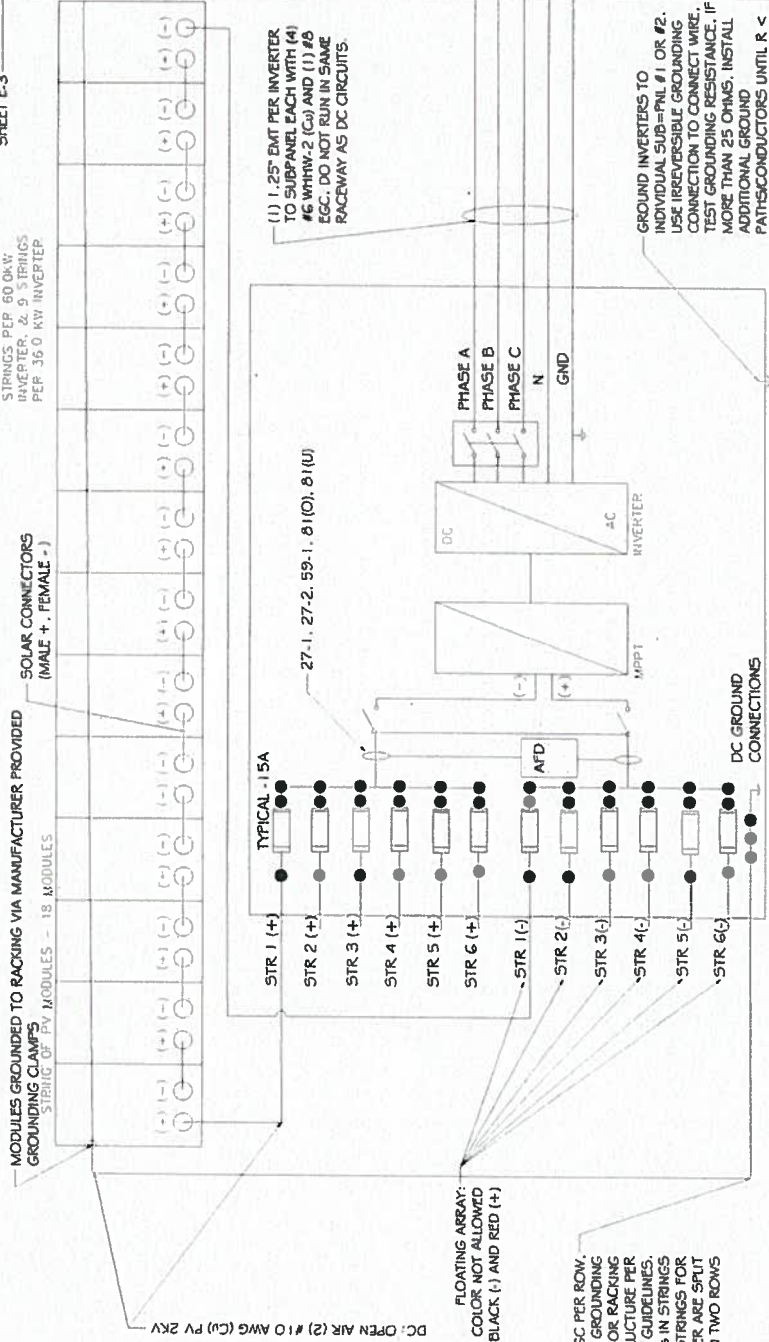
SHEET NUMBER
 E-3

TYPICAL OF A TOTAL OF
 2723 PV MODULES, 18
 MODULES PER STRING, 13
 STRINGS PER 60 KW
 INVERTER, & 5 STRINGS
 PER 36.0 KW INVERTER

SHEET E-3

MATCH LINE

SHEET E-4



(U) 1.25" EMT PER INVERTER
 TO SUPPORT EACH WITH (4)
 #6 MHHK-2 (C0) AND (1) #8
 EGC. DO NOT RUN IN SAME
 RACEWAY AS DC CIRCUITS

GROUND INVERTERS TO
 INDIVIDUAL SUB-PAN #1 OR #2.
 USE IRREVERSIBLE GROUNDING
 CONNECTION TO CONNECT WIRE.
 TEST GROUNDING RESISTANCE. IF
 MORE THAN 25 OHMS, INSTALL
 ADDITIONAL GROUND
 PATHS/CONDUCTORS UNTIL R <
 25 OHMS

FLOATING ARRAY:
 PER NEC WHITE WIRE COLOR NOT ALLOWED
 USE BLACK (-) AND RED (+)

ONE #6 EGC PER ROW.
 CONNECT TO GROUNDING
 ELEMENTS FOR RACKING
 STRUCTURE PER
 MANUFACTURER'S GUIDELINES.
 USE TWO EGC'S IN STRINGS
 FOR A SINGLE IF STRINGS FOR
 A SINGLE INVERTER ARE SPLIT
 BETWEEN TWO ROWS

INVERTER INTERNAL RELAY SETTINGS

DEVICE	VOLTAGE RANGE (% OF BASE VOLTAGE)	MAX CLEARING TIME (SEC)
27-1	V < 50%	0.16
27-2	50% < V < 65%	2.00
59-1	65% < V < 120%	1.00
59-1	V > 120%	0.16
81(O)	FREQUENCY RANGE (Hz)	MAX CLEARING TIME (SEC)
81(U)	< 62	0.16
	> 59.3	0.16



REQD BY: NEC 110.16

13

APPLY TO:
SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, OR EQUIPMENT THAT IS LIKELY TO REQUIRE INSPECTION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED



REQD BY: NEC 690.56(C)
APPLY TO MAIN SERVICE, PV SYSTEM BREAKER

SIGNAGE REQUIREMENTS:

- > RED BACKGROUND
- > WHITE LETTERING
- > MIN. 3/8" LETTER HEIGHT
- > ALL CAPITAL LETTERS
- > ARIAL OR SIMILAR FONT
- > REFLECTIVE, WEATHER RESISTANT MATERIAL, UL 969

DESIGN & DRAWING BY:
Cecilia A. Roth
SHEPHERD HILL ARCHITECTS
ARCHITECTS

REVISIONS	DATE	BY	REV

CONTRACTOR

STANDARD TECHNOLOGIES, P.O. BOX 100, SUMMIT, NJ 07901-0100
RESPONSIBLE OFFICER

PROJECT NAME
LANTASNET JUNGLE HOTEL
100 SUMMIT ST
MIRAMONTE, FLA 32903

SHEET NAME
SYSTEM LABELING DETAIL

SHEET SIZE
ANSI B
11" x 17"

SHEET NUMBER
E-6.2

SCALE: 1" = 4"

DESIGN & DRAFTING BY:
 BRUNNEN, ASHBY &
 ASSOCIATES, INC.
 1000 CENTRAL EXPRESSWAY
 WASHINGTON, D.C. 20001

REVISIONS		
NO.	DATE	BY
1	01/15/81	A

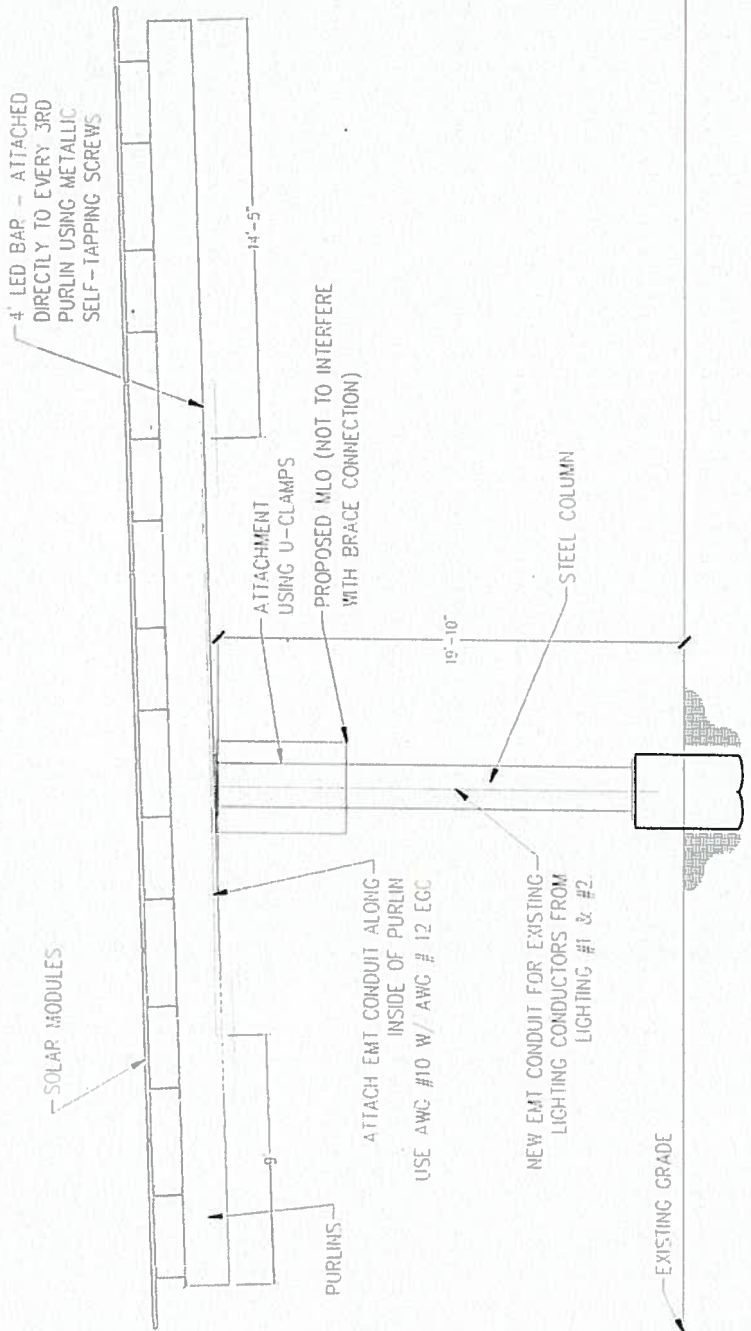
CONTRACTOR:
 HUNTER ENGINEERING, INC.
 1700 EAST 10TH STREET, SUITE 100
 WASHINGTON, D.C. 20002

PROJECT NAME:
 METRO CENTER
 1000 CENTRAL EXPRESSWAY
 WASHINGTON, D.C. 20001

SHEET NAME:
 LIGHTING
 EQUIPMENT
 OVERVIEW

SHEET SIZE:
 ANSI B
 11" x 17"

SHEET NUMBER:
 L-2



FOR STRUCTURAL AND COMPONENT DETAILS, SEE SHEETS PV-7 THROUGH PV-9

EXHIBIT 3

ACCESS PLAN FOR SITE 3

Greenbush Line: Nantasket Junction Station April 11, 2018

Project Scope

The construction of a 962.0 kW DC solar parking lot canopy at the Nantasket Junction MBTA Station. The construction consists of 3 cantilevered canopy structures, founded on 43 support columns, supporting 2,723 solar modules. All existing parking lot light poles and their concrete foundations within the canopy footprint will be removed. New LED lights will replace the existing lighting and will be installed to the underside of the canopy structures.

Construction Plan

The entire project will take 13 weeks to complete. The project is divided into four phases:

Phase 1 consists of drilling and installing foundations;

Phase 2 consists of erecting the canopies, steel work;

Phase 3 consists of putting the modules in place, electrical work and site work (including trenching);

Phase 4 consists of mechanical connection to the grid.

During all stages of construction the current means of access and egress to the Nantasket Junction MBTA Station from Summer Street will be open and unobstructed.

During the 13-week construction period, the area to the north-east corner of the parking lot, containing 25 parking spaces, will be needed as a laydown area (see purple shaded area on the attached – Construction Phasing Plan). This laydown area will be used for the storage of construction materials and will be unavailable to commuters throughout the entire 13-week construction period. In addition, 3 construction areas labeled as areas “A”, “B”, and “C” within the parking lot will be secured for installation activities at various construction stages and will not be available for parking customers. Throughout construction, sufficient parking spaces will be available to parking customers.

Phase 1 – Site preparation, Drilling and Foundations

The first activities to take place include securing the parking areas necessary for laydown space and the removal of the light fixtures, poles and bases from the center area of the lot. Temporary lighting will be provided upon removal of the existing lighting system.. Following completion of this site prep we will move on to the drilling and pouring of foundations. Approximately 3 to 4 foundations will be installed per day. Work will begin in the area marked “A” in the attached Construction Phasing Plan. In the first week, holes will be drilled and foundations will be installed

in that area. There are 52 parking spaces affected in Area A. Then, in the second week 2, holes will be drilled and foundations will be installed in the area marked "B", while concrete cures in area A. There are 108 parking spaces affected in Area B. In the following 2 weeks, holes will be drilled and foundations will be installed in the area marked "C". There are 125 parking spaces affected in Area C. Drilling and foundations should take 4-5 weeks depending on weather conditions

Phase 2 – Canopy Erection

The steel for the canopies will be erected over the course of 5 weeks. 2 bays will be erected per day. In Week 3 steel will be erected in Area A. In Week 4 & 5, steel will be erected in Area marked B. In Week 6 & 7, steel will be erected in Area C.

Phase 3 – Module Installation

Beginning Week 7, modules will be installed on the erected steel, starting in Area C. This work will follow behind the steel erection, and is expected to take 4 weeks. Several crews of electricians utilizing scissor lifts will complete the electrical installation. Upon completion of Phase 3 in area C, area B and C will be secured for about 2 weeks to complete Phase 3 for this site.

Phase 4 – Mechanical Completion/site clearance return to final operation

Mechanical completion will be made to the equipment pad, and should take about 3 weeks. All parking lot patching will be completed. This stage will occur in Weeks 11-13 and should require minimal interruption with the parking lot. Mechanical completion, as outlined above, is different than fully commissioned, which means final connection to the utility's grid. Utility (in this case Eversource) connection will take place several weeks after mechanical completion, and will not impede parking in any way.

Parking and Operations Plan

The Nantasket Junction MBTA Station parking lot contains 495 parking spaces. Data provided by the MBTA indicates that the lot utilization currently will reach up to 30% or 150 spaces during a weekday. Of the 495 spaces, no more than 258 spaces will be secured for construction leaving 237 spaces for parking customers.

Table 1 below identifies the anticipated number of secured parking spaces required during each phase of construction and the number of available spaces to parking customers.

Week	Phase				Area			Secured Parking Spaces Required for Construction	Parking Spaces Available
	1	2	3	4	A	B	C		
1	X				X			77	418
2	X				X	X		185	310
3	X	X			X		X	202	293
4	X	X				X	X	258	237
5		X				X	X	258	237
6		X					X	150	345
7		X	X				X	150	345
8			X				X	150	345
9			X		X	X		185	310
10			X		X	X		185	310
11				X				25	470
12				X				25	470
13				X				25	470

Table 1

Relocation of Parked Cars in Construction Area

1. Contractor (MAP) to notify MBTA Transit Police at least 2 business days prior to mobilization, providing the date/time and location of the site to be secured.
2. MBTA Transit Police reach out to local approved towing companies to verify that they can be available to support the work.
3. Contractor arrives on site and immediately reports to MBTA Transit Police if vehicles need to be relocated.
4. MBTA Transit Police arrive on site, run plates, and notify local approved towing company.
5. Towing company arrives and relocates vehicle within MBTA lot.
6. Towing company bills the contractor for their service.

Nantasket Junction – Construction Phasing Plan



EXHIBIT 4

PERMITTED ENCUMBRANCES FOR SITE 3

Nantasket Junction

I. Permitted Recorded Encumbrances

- 1) Easement between the New York, New Haven and Hartford Railroad Company, to Hingham Lumber Company, Inc., recorded with the Plymouth County Registry of Deeds in Book 2403, Page 88; thereafter terminated or otherwise affected by operation of an Order of Taking by MBTA, dated January 3, 2002, and recorded with the Plymouth County Registry of Deeds.
- 2) Easement between Hingham Lumber Company, Inc., and Florence G. Robinson, dated December 31, 1954, and recorded with the Plymouth County Registry of Deeds in Book 2403, Page 93; thereafter terminated or otherwise affected by operation of an Order of Taking by MBTA, dated January 3, 2002, and recorded with the Plymouth County Registry of Deeds.
- 3) Rights reserved as set forth in a Deed from Trustees of Penn Central Transportation Company to William R. McNulty, Jr., dated November 21, 1977, and recorded with the Plymouth County Registry of Deeds in Book 4388, Page 423; thereafter terminated or otherwise affected by operation of an Order of Taking by MBTA, dated January 3, 2002, and recorded with the Plymouth County Registry of Deeds.
- 4) Notice of Special Permit issued to Hingham Lumber Company for warehouse and retail building and an employee parking lot, dated November 6, 1998, and recorded with the Plymouth County Registry of Deeds in Book 19885, Page 62.
- 5) Order of Conditions issued by the Town of Hingham Conservation Commission, dated June 23, 1997, and recorded with the Plymouth County Registry of Deeds in Book 15411, Page 246.

II. Permitted Non-recorded Encumbrances

- 1) None.

MBTA reserves the right to supplement this Exhibit 4.

EXHIBIT 5

MBTA CRANE REQUIREMENTS

From: MBTA Safety Department

Re: Requirements for proposed work using any type of crane on or adjacent to MBTA property, or has the potential to foul a Right-of-Way ("ROW") (collectively, the "MBTA Crane Requirements").

At least two (2) days prior to the proposed crane work on or adjacent to property owned by MBTA (or crane work that otherwise has the potential to foul a ROW), the Grantee shall:

- 1) Submit the following documentation to the MBTA Safety Department for review:
 - a. Scope of work – purpose of work, hours of operations, location, etc.;
 - b. Pick plan – shows track(s) bridge(s), tunnel(s), water, outriggers, etc.;
 - c. Specifications of crane – load charts, size counterweight, maximum expected boom radius, maximum expected boom length, maximum pick weight with factor of safety of 1.5;
 - d. Copy of crane operator's valid driver's license;
 - e. Copy of crane operator's valid Massachusetts hoisting license;
 - f. Copy of crane operator's valid medical certificate; and
 - g. Most recent annual third party inspection/certification (must be within the last twelve (12) calendar months).

- 2) Take the following actions:
 - a. Notify the MBTA Safety Department prior to the crane being brought on site to allow for scheduling an onsite inspection to verify all submitted documents.
 - b. Notify the appropriate MBTA operations departments (Bus Operations, Railroad Operations Department, Light Rail Operations Departments (i.e. Red Line, Blue Line, Green Line, Orange Line, as applicable) to coordinate flagging activities.
 - c. Adhere to all federal, state, and local regulations.

If at any time the work is deemed unsafe by MBTA, the Grantee shall cease all work until conditions are corrected and may commence work only after approved by MBTA personnel.

The MBTA Safety Department reserves the right to amend and/or supplement the MBTA Crane Requirements, and to request additional/supplemental documentation from Grantee, its contractors, or consultants, as determined in MBTA's sole discretion, without prior written notice.

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Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Stephanie Pollack, MassDOT Secretary & CEO
Brian Shortsleeve, Chief Administrator and Acting General Manager

massDOT
Massachusetts Department of Transportation

MEMORANDUM

To: Patty Schuster
Director of Licensing

From: Steven V. Culp *SVC*
Director of Safety Engineering

Date: December 14, 2016

Subject: Crane Requirements for Licenses

MBTA Safety has researched prior documentation and construction specifications for the requirements that Massachusetts Realty Group should incorporate into easement licenses where the applicant is requesting to utilize any type of crane. The following wording should be used:

At a minimum of two (2) business days prior to the proposed crane work on or adjacent to MBTA Property, or has the potential to foul the Right-of-Way (ROW), the applicant shall:

1. Submit the following to MBTA Safety for review:
 - Scope of Work –Purpose of Work, Hours of Operations, Location, etc.
 - Pick Plan – Shows Track(s), Bridge(s), Tunnel(s), Water, Outriggers, etc.
 - Specifications of the Crane – Load Charts, Size Counterweight, Maximum Expected Boom Radius, Maximum Expected Boom Length, Maximum Expected Pick Weight with Factor of Safety of 1.5
 - Copy of Operator's Valid Driver's License
 - Copy of Operator's Valid Massachusetts' Hoisting License
 - Copy of Operator's Valid Medical Certificate
 - Most recent Annual Third Party Inspection/Certification, must be within the last 12 Calendar months
2. Take the following actions:
 - Notify MBTA Safety prior to the crane being brought on site to allow for scheduling of an onsite inspection to verify the submitted documents.
 - Notify the appropriate MBTA Bus, Subway, or Railroad Operations Departments to coordinate Flagging activities.
 - Adhere to all applicable Federal, State, and local regulations.

If at any time the work is deemed unsafe by MBTA, the applicant should cease all work until conditions can be corrected and approved by MBTA personnel.

If you have any questions or concerns, please feel free to contact me.

Cc: K. LoCurto



MAP-MBTA Solar Canopies Hoisting Plan

3-6-2018

For the construction of the proposed solar canopies at various MBTA property locations, MAP will require the use of a JCB Loadall 507-42, or similar, as well as appropriate rigging for the installation of foundation rebar cages and the erection of structural steel frames.

For all locations, MAP will safely position equipment so that it has no potential to foul the MBTA's railroad ROW and all hoisting operations will be performed under the inspection of a designated MBTA inspector provided by the MBTA's Capital Delivery Department.

MAP has been provided with the attached memorandum from the MBTA's Safety Department dated 12/14/2016 which itemizes all required documentation and protocols for the proper notification of MBTA Safety personnel. MAP will provide all documentation under separate cover for each location and piece of equipment used at a minimum of two (2) business days prior to the proposed hoisting work.

Should you have any questions, please contact Steve Cleveland at steve.cleveland@mapefs.com

EXHIBIT 6

Electrical Metallic Tubing Conduit Acknowledgement



Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Stephanie Pollack, MassDOT Secretary & CEO
Luis Manuel Ramirez, General Manager & CEO



March 6, 2018

Luis Manuel Ramirez
General Manager and CEO, the MBTA
10 Park Plaza
Boston, MA 02116

Re: Electrical Metallic Tubing Conduit Acknowledgement

To Whom It May Concern:

Rigid galvanized conduit ("RGC") shall be required on all parts of the solar canopy infrastructure where conduit is required from grade to eight (8) feet above grade. Electrical metallic tubing conduit ("EMT") shall be permitted to be used as an alternative to RGC in those portions of the solar canopy infrastructure situated above eight (8) feet from grade where conduit is required. The use of these types of conduit shall apply to solar canopies that will be implemented pursuant to the *Master Solar Canopy Land Lease and Agreement*, dated November 1, 2016, as amended.

Luis Manuel Ramirez
General Manager and CEO, the MBTA