



## CITY OF SOMERVILLE

Commonwealth of Massachusetts

93 Highland Avenue

Somerville, MA 02143

(617) 625-6600

### BUSINESS LICENSE APPLICATION - Grant of Location

File #: 19-013904

License #: BL19-000078

Address: 497 BROADWAY

Licensee: Matthew Pricco Network Building + Consulting

DBA Name: ExteNet Systems, Inc.

Business Ownership Type: Corporation

Legal Name of Entity: ExteNet Systems, Inc.

Owners/Officers: James A. Hyde, H. Anthony Lehv, Daniel L. Timm,

#### **License Information:**

**Grant of location issued to:** ExteNet Systems, Inc.

**Describe the reason for the work, and the intended beneficiaries:** Installation of a small cell wireless facility in the public right-of-way. The facility will improve wireless communications services for residents, businesses, and visitors in the vicinity.

**Insert here the same detailed description of the work as appears in the attached Grant of Location Order:** Install a small cell wireless facility on a replacement single pendant style light pole of the same height, utilizing a steel "look alike" pole painted to match the existing pole. The principal elements of the proposed facility are an antenna housed in a 24" long, 10" diameter shroud at the top of the pole and three radios in a shroud mounted on the pole approximately 13' 6" +/- above the ground. The proposed replacement pole fully accommodates the same type of light fixture, to be installed and made operational as part of this proposal. It is structurally stronger than the existing pole and will be installed in the same location. This proposal maintains appearance of the existing streetscape and improves wireless capacity for residents, businesses and visitors.

Approval Conditions:

**Approved By:**

**John J. Long, Approved**

**Kevin Roche, Approved**

**John J. Long, Approved**

Utility  
+  
Mark Niedergang



CITY OF SOMERVILLE, MASSACHUSETTS  
CITY CLERK'S OFFICE  
JOSEPH A. CURTATONE  
MAYOR

JOHN J. LONG  
CITY CLERK

October 2, 2019

**NOTICE**

You are hereby notified that the Somerville City Council will hold a Public Hearing on the following Petition. You are receiving this Notice because the Petitioner has reported that you own property that abuts the work that is being proposed. You and other members of the public are invited to attend and be heard at this Hearing. If you are unable to attend, you may send written comments by US mail or by email to my attention, but they must arrive no later than 12 Noon on the day of the Hearing, in order to be sure they are conveyed to the Council.

**PETITION:** Extenet seeks a Grant of Location to replace existing streetlight pole and install a small cell wireless antenna on a new streetlight pole located on 497 Broadway adjacent to intersection of Broadway and Dexter Street, Medford.

**PLACE:** City Council Chamber, 2<sup>nd</sup> Floor, City Hall, 93 Highland Avenue, Somerville.

**TIME:** Thursday, October 10, 2019, at 7:00 PM.

**PURPOSE:** The work is necessary to provide or improve wireless communication to the immediate area.

John J. Long  
City Clerk

**ORDER FOR GRANT OF LOCATION FOR  
WIRES, CABLES, POLES, PIERS, ABUTMENTS, CONDUITS OR FIXTURES**

**City of Somerville, Massachusetts  
In Board of Aldermen**

WHEREAS, ExteNet Systems, Inc. (hereinafter known as the PETITIONER) has petitioned for permission to construct upon, along, under or across the public way(s), the following:

*INSERT DESCRIPTION OF WORK HERE*

**038 497 Broadway**

**Extenet proposes to install a small cell wireless facility on a replacement single pendant style light pole of the same height, utilizing a steel "look alike" pole painted to match the existing pole. The principal elements of the proposed facility are an antenna housed in a 24" long, 10" diameter shroud at the top of the pole and three radios in a shroud mounted on the pole approximately 13' 6" +- above the ground. The proposed replacement pole fully accommodates the same type of light fixture, to be installed and made operational as part of this proposal. It is structurally stronger than the existing pole and will be installed in the same location. This proposal maintains appearance of the existing streetscape and improves wireless capacity for residents, businesses and visitors.**

AND WHEREAS, notice has been given and a hearing held on said petition as provided by law; NOW THEREFORE BE IT

ORDERED that the PETITIONER be and hereby is granted permission by the Board of Aldermen to complete the construction described above, all in accordance with the following conditions:

1. PETITIONER shall locate and complete all work as shown by plan(s) dated \_\_\_\_\_, and as may have been amended by the City.
2. PETITIONER shall comply with the requirements of existing ordinances and such as may hereafter be adopted governing the construction.
3. PETITIONER shall perform all work to the requirements and satisfaction of the Department of Public Works or other such officer(s) as may be hereafter appointed by the City.

Approved by the Board of Aldermen on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_,

A True Record. Attest: \_\_\_\_\_ Date: \_\_\_\_\_  
City Clerk

**Certificate**

I hereby certify that the foregoing Order was adopted by the Board of Aldermen on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, after due notice and public hearing as prescribed by Section 22 of Chapter 166 of the General Laws and any additions or amendments thereto, said public hearing held in said City on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, and recorded with the records of Grant of Location Orders of said City, as \_\_\_\_\_.

Certified. Attest: \_\_\_\_\_ Date: \_\_\_\_\_  
City Clerk

CAN ID / EXTENET ID:  
**CRAN\_RCTB\_2HA4\_038/NE-MA-BSTBSC01-00038**

LATITUDE / LONGITUDE:  
**42.39744528° / -71.10413995°**

SITE ADDRESS:  
**497 BROADWAY**

CITY, STATE, ZIP:  
**SOMERVILLE, MA 02145**

**CALL BEFORE YOU DIG**  
 UNDERGROUND SERVICE ALERT  
 72 HOURS NOTICE REQUIRED,  
 ENTER 1-888-DIG-SAFE

NOTE:  
 COORDINATES AND ELEVATION DERIVED  
 FROM GOOGLE EARTH

NOTE:  
 GENERAL CONTRACTOR IS REQUIRED TO CROSS CHECK COORDINATES, EXHIBIT PHOTO, AERIAL PHOTO  
 AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND, CONCERNS OR  
 QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO ASSIGNED EXTENET PROJECT MANAGER.

**GENERAL NOTES**

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE.

**SITE INFORMATION**

CRAN ID:	CRAN_RCTB_2HA4_038
EXTENET NODE ID:	NE-MA-BSTBSC01-00038
LATITUDE:	42.39744528°
LONGITUDE:	-71.10413995°
AMSL ELEVATION:	76'
SITE ADDRESS:	497 BROADWAY
CITY, STATE, ZIP:	SOMERVILLE, MA 02145
COUNTY:	MIDDLESEX
JURISDICTION:	SOMERVILLE
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	EXTENET SYSTEMS 876 HAMMOND ST CHESTNUT HILL, MA 02467 (617) 232-4154

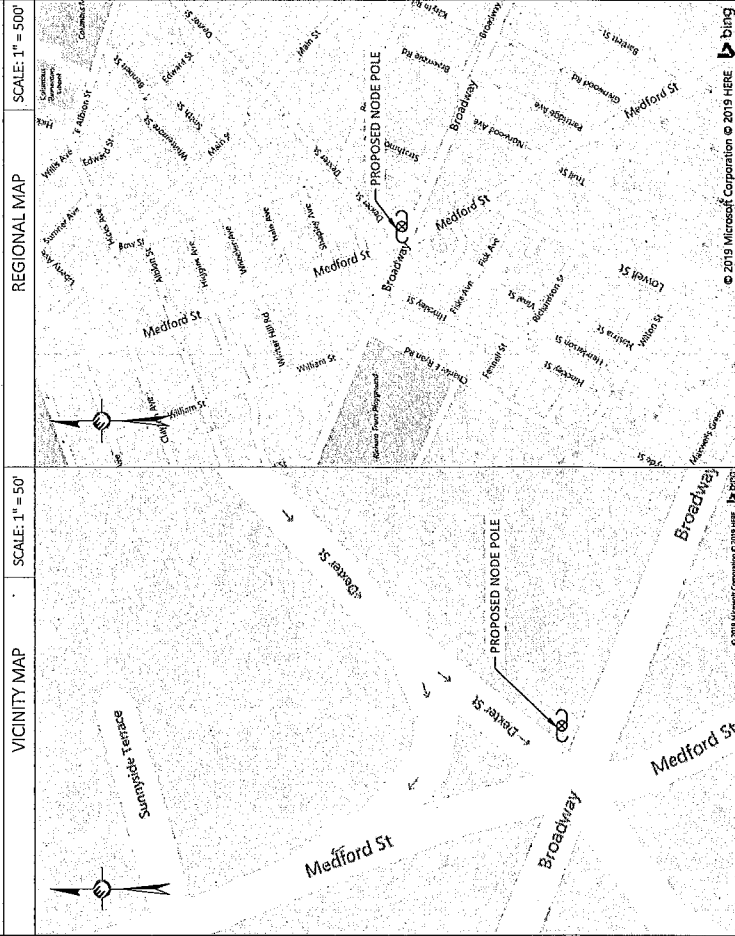
**ENGINEER**

RICK ANGELINI  
 100 WASHINGTON ST  
 SUITE 204  
 LISLE, IL 60532  
 NOC: (866) 892-5327

**DO NOT SCALE DRAWINGS**

CONTRACTORS SHALL VERIFY ALL PLANS, (EX) DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**LOCATION MAPS**



**PROJECT DESCRIPTION**

**INVOLVING INSTALLMENT:**  
 THESE PLANS REPRESENT A PORTION OF A PROPOSED SYSTEM AND RADIO EQUIPMENT ON AN EXISTING WOODEN UTILITY OR REPLACEMENT METAL STREETLIGHT POLE.

**CODES**

2019 INTERNATIONAL BUILDING CODE  
 NATIONAL ELECTRIC SAFETY CODE  
 TIA/EIA-222-G-2 OR LATEST EDITION  
 LOCAL BUILDING / PLANNING CODE

**DRAWING INDEX**

SHEET NO.	TITLE SHEET
T-1	TITLE SHEET
A-1	SITE PLAN & EXHIBIT PHOTO
A-2	ELEVATIONS
A-3	ELEVATIONS
D-1	ANTENNA DETAILS
D-2	RADIO SHROUD DETAILS
D-3	FOUNDATION DETAILS
D-4	GROUNDING & WIRING DIAGRAMS
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES

PLANS PREPARED FOR: 																	
PLANS PREPARED BY: 																	
LOCATION: 497 BROADWAY SOMERVILLE, MA 02145 MIDDLESEX COUNTY																	
ORIGINAL PLAN: SCALE: DRAWN BY: JR AS NOTED PLAN DATE: 1/27/19	REVISIONS: <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ADD AERIAL PHOTO</td> <td>ESP</td> <td>06/11/18</td> </tr> <tr> <td>2</td> <td>UPDATE ADDRESS INFO</td> <td>AC</td> <td>07/17/18</td> </tr> <tr> <td>3</td> <td>UPDATE ADDRESS</td> <td>LS</td> <td>9-26-19</td> </tr> </tbody> </table>	REV	DESCRIPTION	BY	DATE	1	ADD AERIAL PHOTO	ESP	06/11/18	2	UPDATE ADDRESS INFO	AC	07/17/18	3	UPDATE ADDRESS	LS	9-26-19
REV	DESCRIPTION	BY	DATE														
1	ADD AERIAL PHOTO	ESP	06/11/18														
2	UPDATE ADDRESS INFO	AC	07/17/18														
3	UPDATE ADDRESS	LS	9-26-19														
SITE INFO: LAT: 42.39744528° LONG: -71.10413995°																	
GRAN ID: CRAN_RCTB_2HA4_038																	
EXTENET NODE ID: NE-MA-BSTBSC01-00038																	
SITE ADDRESS: 497 BROADWAY																	
SHEET TITLE: TITLE SHEET																	
SHEET NUMBER: <b>T-1</b>																	

PLANS PREPARED FOR:

**extenet** YOUR NETWORK. EVERYWHERE. SYSTEMS

PLANS PREPARED BY:

**US SYNERGETIC**  
 1000 Washington St., 2nd Floor  
 Mansfield, MA 02148  
 www.usynerg.com 1-800-837-7600

**FOR PERMITTING PURPOSES ONLY**

LOCATION:  
 497 BROADWAY  
 SOMERVILLE, MA 02145  
 MIDDLESEX COUNTY

PAUL G. JONES  
 No. 28497  
 REGISTERED PROFESSIONAL ENGINEER  
 COMMONWEALTH OF MASSACHUSETTS  
 PROFESSIONAL SEAL

DRAWING NOTES

ORIGINAL PLAN:	AS NOTED
SCALE:	JR
DRAWN BY:	JR
PLAN ORG. DATE:	2/27/19

REV.	DESCRIPTION	BY	DATE
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2	UPDATED ADDRESS INFO AC 10/27/19		
3	UPDATE ADDRESS	LS	12/24/19

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 LONG: -71.10413995°

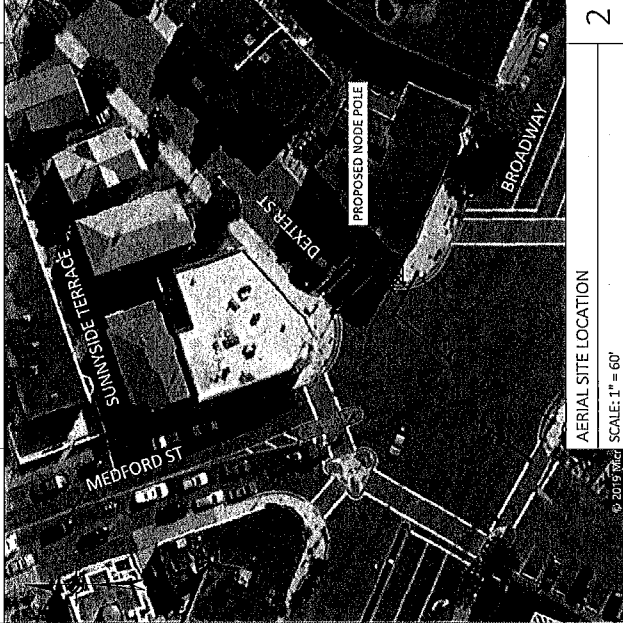
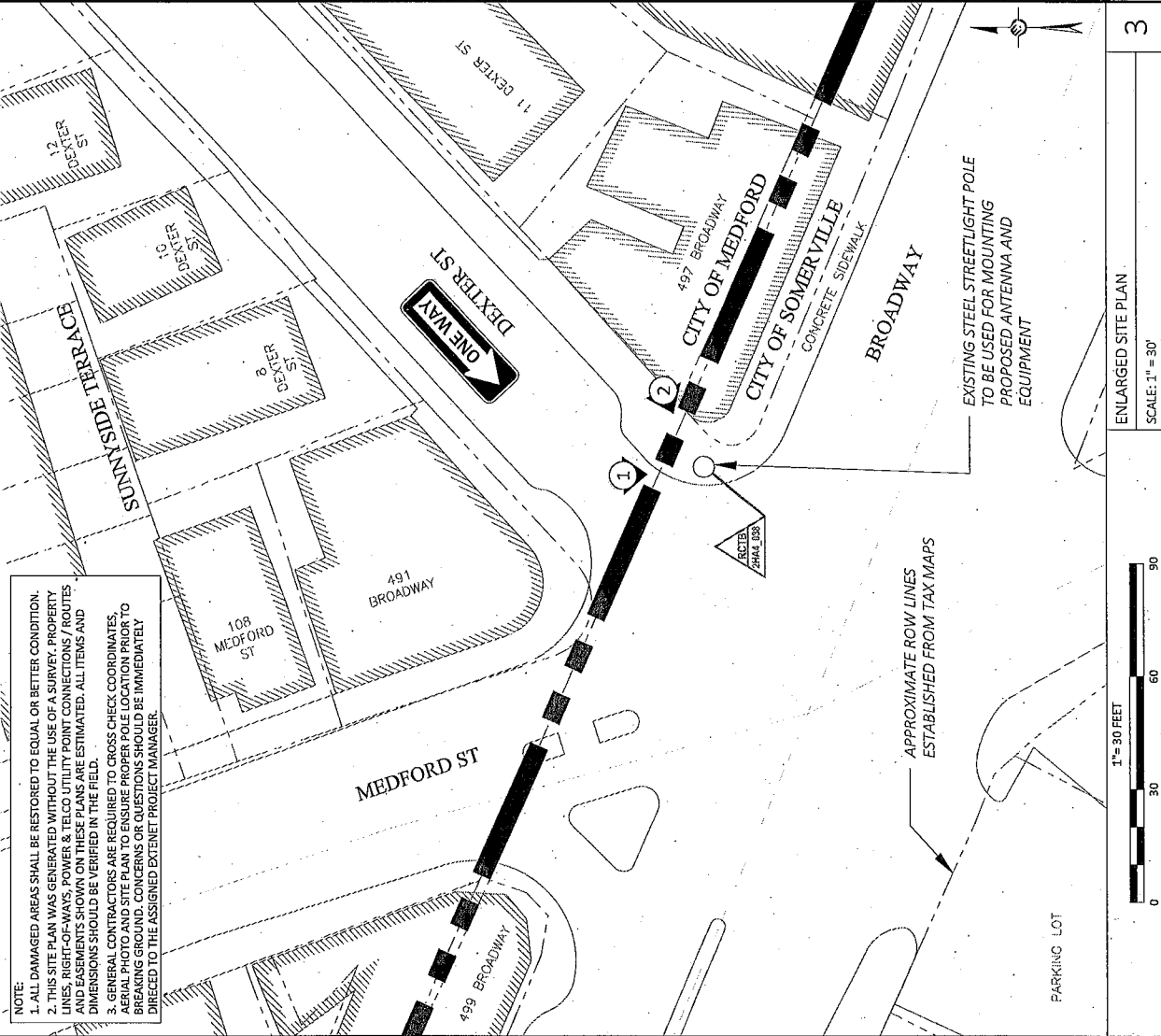
CRAN ID:  
 CRAN\_RCTB\_21H44\_038

EXENET NODE ID:  
 NE-MA-BSTBC01-00038

SITE ADDRESS:  
 497 BROADWAY

SHEET TITLE:  
 SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER:  
 A-1



PLANS PREPARED FOR: **exfenet** SYSTEMS

PLANS PREPARED BY: **US SYNERGETIC**  
 Professional Training & Engineering Solutions  
 MANCHESTER, MA 02148  
 1-508-337-7600  
 www.usnet.com

**FOR PERMITTING PURPOSES ONLY**

LOCATION:  
 497 BROADWAY  
 SOMERVILLE, MA 02145  
 MIDDLESEX COUNTY

PAUL G. JONES  
 No. 28497  
 REGISTERED PROFESSIONAL ENGINEER  
 COMMONWEALTH OF MASSACHUSETTS

DRAWING NOTES:

ORIGINAL PLAN:	AS NOTED
SCALE:	JR
DRAWN BY:	JR
PLAN ORG. DATE:	1/27/19

REVISIONS:	DESCRIPTION	DATE
1	ADD SIGN INFO	02/04/2019
2	UPGRADE ADDRESS INFO	02/07/2019
3	UPGRADE ADDRESS	01/19/2019

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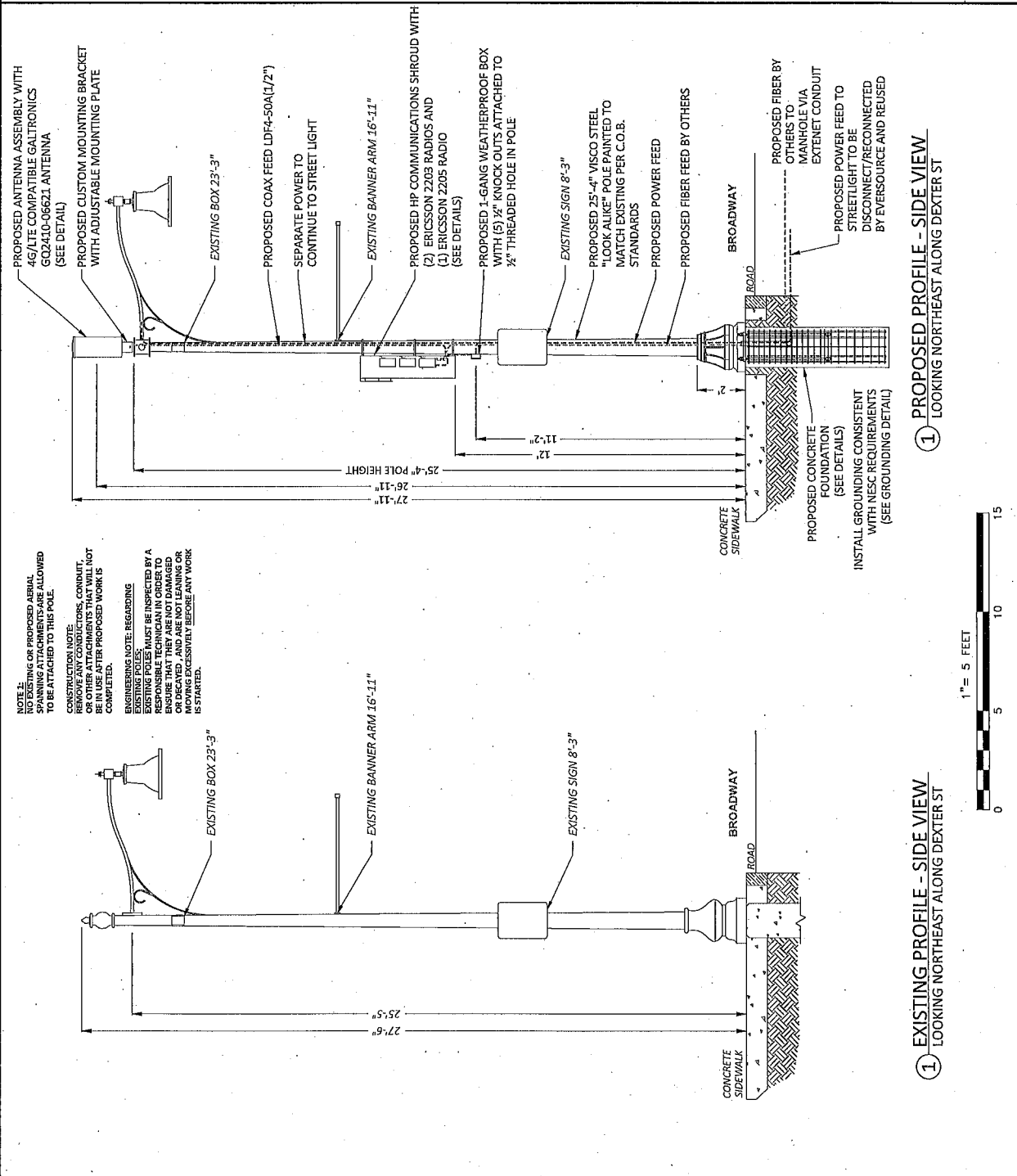
CRAN ID: CRAN\_RCTS\_2HA4\_038

STREET WORK ID: NE-MA-BSTBSC01-00038

SITE ADDRESS: 497 BROADWAY

SHEET TITLE: POLE ELEVATIONS

SHEET NUMBER: A-2



**DRAWINGS NOTES:**

NOTE 1: 30' MIN. WORKER SAFETY ZONE SHALL BE MAINTAINED AT ALL TIMES. PROPOSED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NESC REGULATIONS.

NOTE 2: PROPOSED FIBER TO BE INSTALLED BY OTHERS.

NOTE 3: PROPOSED EQUIPMENT TO BE PAINTED TO BLEND WITH POLE.

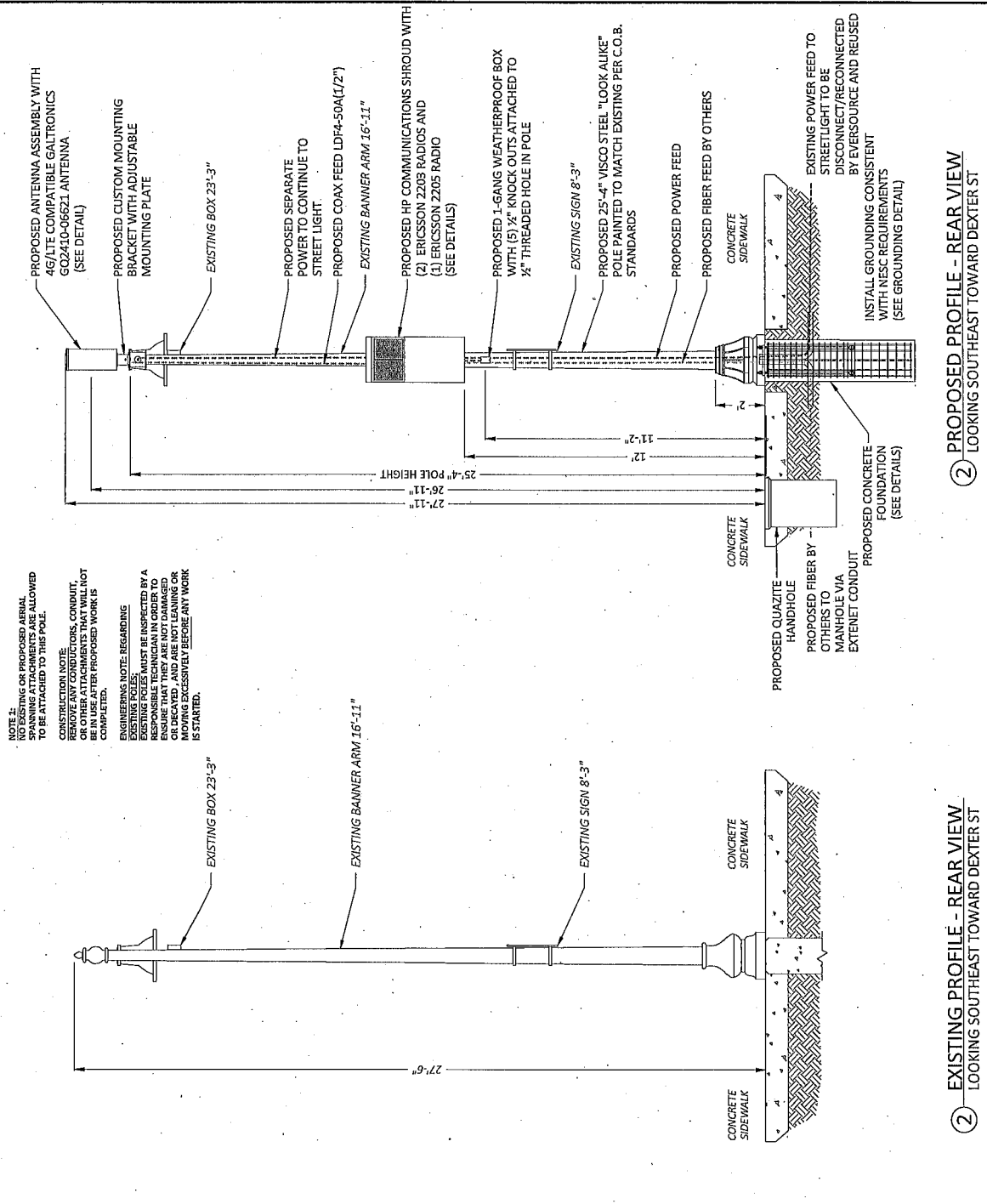
NOTE 4: ALL MANDATED SIGNAGE TO BE ATTACHED TO POLE.

NOTE 5: PROPOSED EQUIPMENT SHALL BE INSTALLED NO HIGHER THAN 30' BELOW TELEPHONE UTILITY LINES.

**DRAWINGS NOTES:**

- NOTE 1: 20' MIN. WORKER SAFETY ZONE BETWEEN LOWEST POWER & HIGHEST COMMUNICATIONS CABLE IN ACCORDANCE WITH NESC REGULATIONS.
- NOTE 2: PROPOSED FIBER TO BE INSTALLED BY OTHERS.
- NOTE 3: PROPOSED EQUIPMENT TO BE PAINTED TO BLEND WITH POLE.
- NOTE 4: FCC MANDATED SIGNAGE TO BE ATTACHED TO POLE.
- NOTE 5: PROPOSED EQUIPMENT SHALL BE INSTALLED NO HIGHER THAN 30' BELOW TELEPHONE UTILITY LINES.

NOTE 1: NO EXISTING OR PROPOSED AERIAL SPANNING ATTACHMENTS ARE ALLOWED TO BE ATTACHED TO THIS POLE.  
 CONSTRUCTION NOTE: REMOVE ANY CONDUCTORS, CONDUIT, OR OTHER ATTACHMENTS THAT WILL NOT BE USED AFTER PROPOSED WORK IS COMPLETED.  
 ENGINEERING NOTE REGARDING EXISTING POLES: EXISTING POLES MUST BE INSPECTED BY A RESPONSIBLE TECHNICIAN IN ORDER TO ENSURE THAT THEY ARE NOT DAMAGED OR WEAKENED BY THE WORK OR MOVING EXCESSIVELY BEFORE ANY WORK IS STARTED.



② EXISTING PROFILE - REAR VIEW  
LOOKING SOUTHEAST TOWARD DEXTER ST

② PROPOSED PROFILE - REAR VIEW  
LOOKING SOUTHEAST TOWARD DEXTER ST



PLANS PREPARED FOR: <b>extenet</b> SYSTEMS		PLANS PREPARED BY: <b>US/SYNERGETIC</b> MANCHESTER, NH 03102 MANSFIELD, MA 02148 www.us-synergetic.com 1-508-357-7000		LOCATION: 497 BROADWAY SOMERVILLE, MA 02145 MIDDLESEX COUNTY				DRAWING NOTES:	
ORIGINAL PLAN:	AS NOTED	SCALE:	AS NOTED	DATE:	3/27/19	REV:	DESCRIPTION	BY:	DATE
DRAWN BY:	JR	PLAN ORG. DATE:	3/27/19	1:	ADD SAMLING	2:	UPDATED ADDRESS INFO	3:	UPDATED ADDRESS
PROJECT NO: 19-001 PROJECT NAME: 497 BROADWAY PROJECT ADDRESS: 497 BROADWAY PROJECT CITY: SOMERVILLE, MA 02145 PROJECT STATE: MA PROJECT ZIP: 02145 PROJECT PHONE: 508-357-7000 PROJECT FAX: 508-357-7000 PROJECT EMAIL: info@us-synergetic.com PROJECT WEBSITE: www.us-synergetic.com PROJECT CONTACT: PAUL G. JONES PROJECT CONTACT PHONE: 508-357-7000 PROJECT CONTACT FAX: 508-357-7000 PROJECT CONTACT EMAIL: paul.jones@us-synergetic.com PROJECT CONTACT WEBSITE: www.us-synergetic.com									
SHEET TITLE: POLE ELEVATIONS		SHEET NUMBER: A-3		SHEET TOTALS: POLE ELEVATIONS		SHEET NUMBER: A-3		SHEET TOTALS: POLE ELEVATIONS	

PLANS PREPARED FOR:

PLANS PREPARED BY:

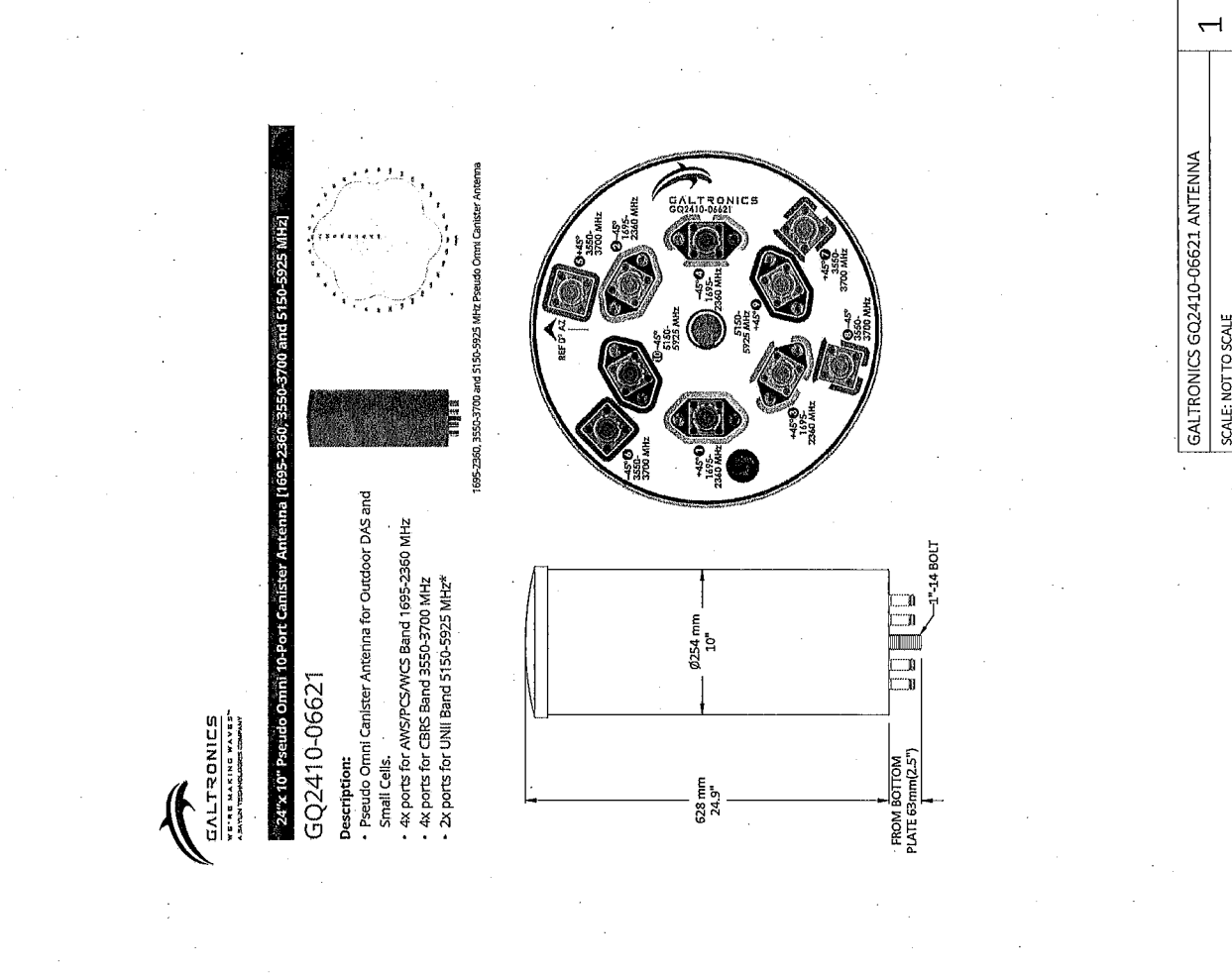
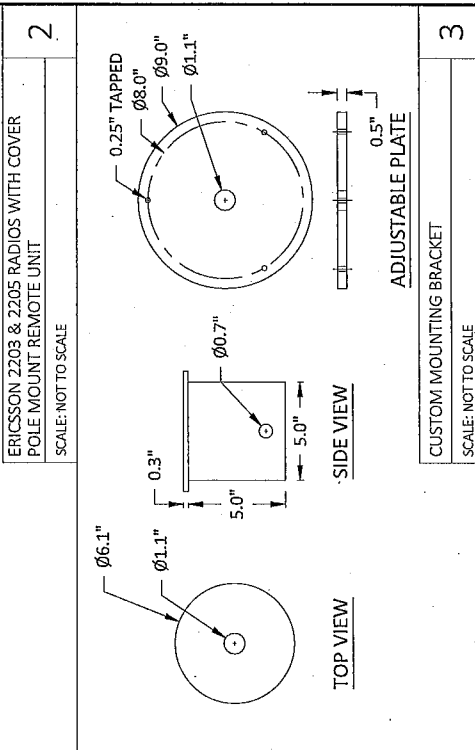
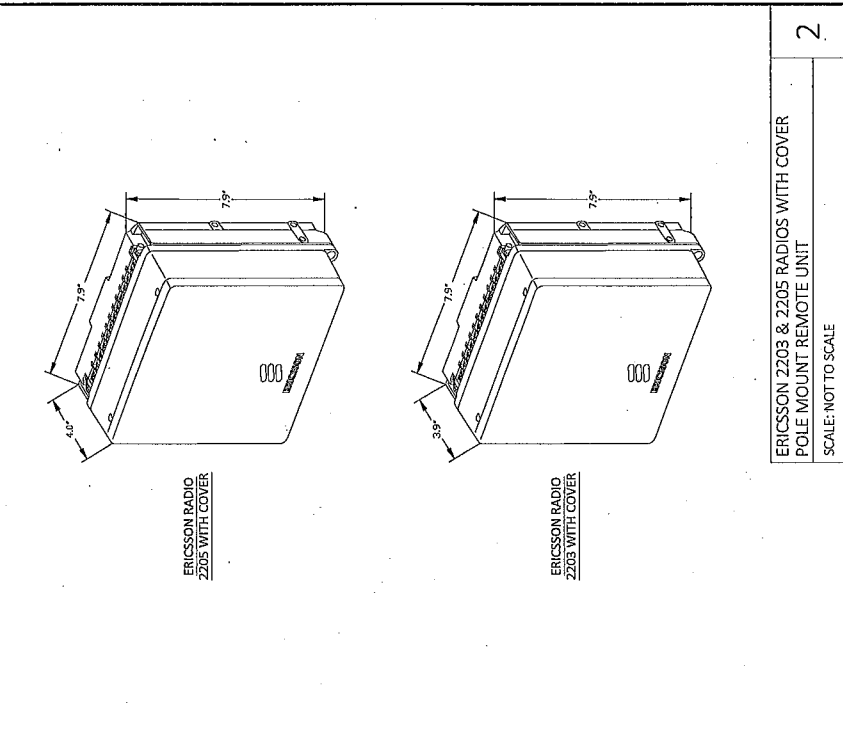
FOR PERMITTING PURPOSES ONLY

LOCATION:  
497 BROADWAY  
SOMERVILLE, MA 02145  
MIDDLESEX COUNTY

DRAWING NOTES:


ORIGINAL PLAN:	AS NOTED		
SCALE:	JR		
DATE:	2/27/25		
PROJECT NAME:	2/27/25		
REV. NO.	DESCRIPTION	BY	DATE
1	ISSUED	GC	2/27/25
2	ISSUED	GC	2/27/25
3	ISSUED	GC	2/27/25
4	ISSUED	GC	2/27/25
5	ISSUED	GC	2/27/25
6	ISSUED	GC	2/27/25
7	ISSUED	GC	2/27/25
8	ISSUED	GC	2/27/25
9	ISSUED	GC	2/27/25
10	ISSUED	GC	2/27/25

SITE INFO:  
LAT: 42.59744528°  
LONG: -71.10413995°  
CRAN: CRAN\_RCTB\_2HA4\_038  
EXTENT NOISE ID: NE-MA-BSTBSC01-00038  
SITE ADDRESS: 497 BROADWAY  
SHEET TITLE: ANTENNA DETAILS  
SHEET NUMBER: D-1






PLANS PREPARED FOR:



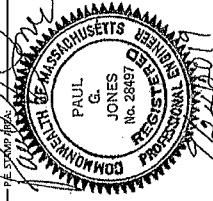
PLANS PREPARED BY:



UC SYNERGETIC  
Professional Services  
MANCHESTER, MA 02048  
www.useng.com 1-508-877-7600

**FOR PERMITTING PURPOSES ONLY**

LOCATION:  
497 BROADWAY  
SOMERVILLE, MA 02145  
MIDDLESEX COUNTY



DRAWING NOTES:

ORIGINAL PLAN:	AS NOTED
SCALE:	1" = 10'
DRAWN BY:	JR
PLAN ORIG. DATE:	2/27/09

REV.	DESCRIPTION	BY	DATE
1	ADD ASB INFO	ECE	06/17/15
2	UPDATED ADDRESS INFO	JAC	07/07/15
3	UPDATE ADDRESS	LS	04-24-19

SITE INFO:  
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LONG: -71.10413995°

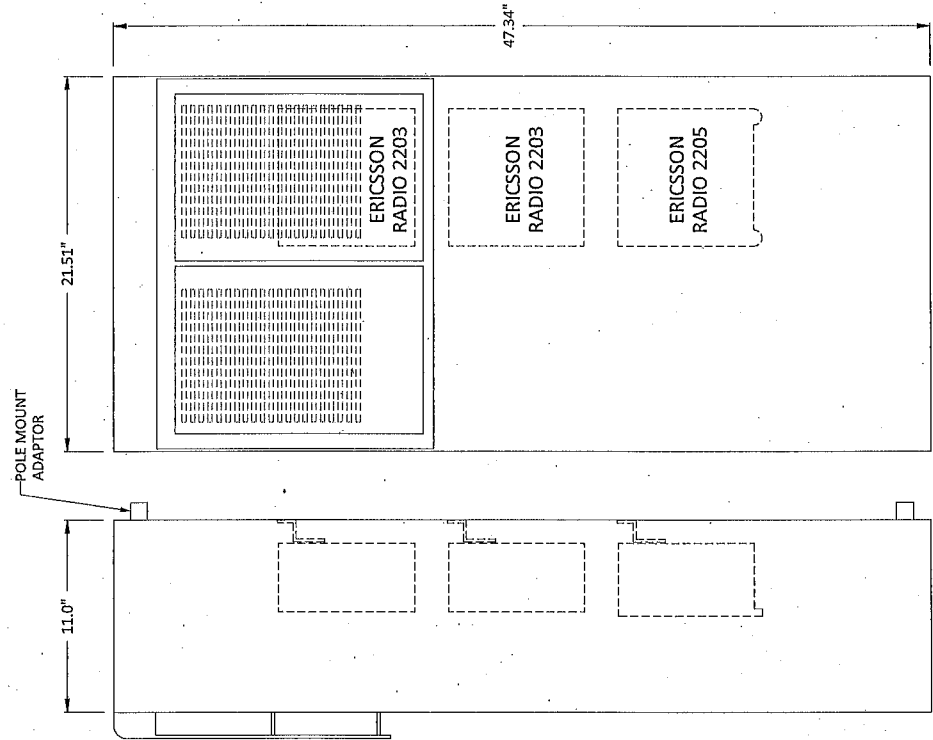
CRAN ID:  
CRAN\_RCTB\_2HA4\_038

EXTENET WORK ID:  
NE-MA-BSTSC01-00038

SITE ADDRESS:  
497 BROADWAY

SHEET TITLE:  
RADIO SHROUD DETAILS

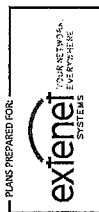
SHEET NUMBER:  
D-2



**HP COMMUNICATIONS SHROUD**  
6.48 CUBIC FEET  
SCALE: NTS

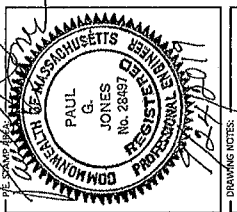
HP COMMUNICATIONS SHROUD - 6.48 CUBIC FEET  
SCALE: NOT TO SCALE

1



PLANS PREPARED BY:  
**US/SYNERGETIC**  
 21 LORFORD RD  
 MANSFIELD, MA 02048  
 508-337-7600  
 www.usyn.net

**FOR PERMITTING PURPOSES ONLY**  
 LOCATION:  
 497 BROADWAY  
 SOMERVILLE, MA 02145  
 MIDDLESEX COUNTY



DRAWING NOTES:  
 ORIGINAL PLAN: AS NOTED  
 SCALE: JR  
 DRAWN BY: JR  
 PLAN ORG. DATE: 2/27/19  
 REVISIONS:  
 1. REV. 1 DESCRIPTION BY DATE  
 2. UPDATE ADDRESS INFO AC 3/17/19  
 3. UPDATE ADDRESS LS 9-24-19

REV	DESCRIPTION	BY	DATE
1	UPDATE ADDRESS INFO AC	3/17/19	
3	UPDATE ADDRESS LS	9-24-19	

SITE INFO:	42.39744528°
	-71.10413995°
CRAN ID:	CRAN_RCTE_2H44_038
EXTENT WORK ID:	NE-MA-BSTBSC01-00038
SITE ADDRESS:	487 BROADWAY
SHEET TITLE:	FOUNDATION DETAILS
SHEET NUMBER:	D-3

**GENERAL NOTES**

- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND FACILITIES PRIOR TO EXCAVATING ANY MATERIALS.
- CONTRACTOR SHALL INSPECT AND REMOVE ALL DEBRIS FROM BOTTOM OF EXCAVATION PRIOR TO POURING CONCRETE.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO AND IMMEDIATELY AFTER PLACING CONCRETE. ANCHOR BOLT LAYOUT IS CRITICAL FOR MONOPILE INSTALLATION.
- CONTRACTOR SHALL PROVIDE REINFORCING BARS CONFORMING TO ASTM A618, GR. 60 (OR 60 PSI MIN. YIELD). CONTRACTOR SHALL USE STEEL WIRE TO HOLD REINFORCING BARS TOGETHER. IF WELDING BARS IS PREFERRED, SUBSTITUTE USING A76 GR. 60.
- CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL USE 1" MAXIMUM STONE AGGREGATE. MIX DESIGNERS SHALL SALES OF CEMENT, SAND, FILLER, GRAD, AND 17" MINIMUM AND 17" MAXIMUM CONCRETE SLUMP.
- CONCRETE SHALL BE CONSOLIDATED USING VIBRATORY METHODS. CONTRACTOR SHALL PROVIDE VIBRATORS WITH REACH DEPTHS MAY BE ACCOMPLISHED BY TAPPING REBAR CASE WITH REBAR LENGTH TEMPORARY CASING TO STABILIZE THE EXCAVATION. THE CASING SHALL BE REMOVED IMMEDIATELY AFTER THE POURING OF CONCRETE. EXCAVATED HOLE CONCRETE SHALL BE PLACED USING CONVENTIONAL METHODS TO MINIMIZE SEGREGATION OF CONCRETE AND AGGREGATE. FINISH THE SURFACE USING TROWEL. FINISH SHALL BE 3" CONCRETE MAY BE PLACED TO THE DEPTH INDICATED, AND THE ABOVE GRADE PORTION SHALL BE FORMED. THE REBAR CASE, ANCHOR BOLTS, AND MONOPILE SHALL BE REMOVED IMMEDIATELY AFTER THE EXCAVATION. COOLD JOINTS ARE NOT ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVERAGE OVER REINFORCING BARS TO MINIMIZE CORROSION. CONCRETE COVER OVER REBAR, TOP OF FOOTING SHALL BE TROWELED LEVEL AND SMOOTH.
- CONCRETE SHALL BE CLASS 4 MATERIAL.
- TOTAL VOLUME OF CONCRETE REQUIRED FOR THIS FOUNDATION IS APPROXIMATELY 1.1 CU. YD.

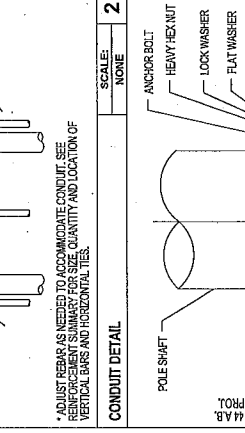
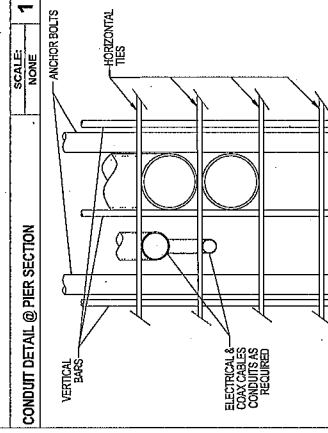
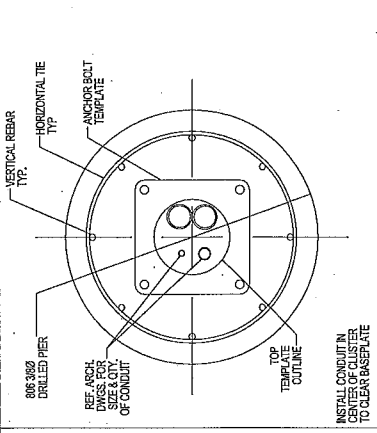
**FACTORED BASE REACTIONS**

MOMENT	=	30.9 k-lbs
SHEAR	=	2.46 k-lbs
VERTICAL	=	1.07 k-lbs

**SPECIAL INSPECTIONS**

SPECIAL INSPECTION: THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 208B(2) E.C. SECTION 1704

ITEM	DESCRIPTION	INSPECTION BY	MATERIAL
1	PER EXCAVATION LATERE BEARING CAPACITY	SOILS ENGINEER	300 PSF/T LATERAL
2	PIER CONSTRUCTION REINFORCING STEEL BAR SIZES AND INSTALLATION	SPECIAL INSPECTOR	ASTM A618 GR. 60
3	ANCHOR BOLTS BOLT SIZE AND LENGTHS INSTALLATION	SPECIAL INSPECTOR	ASTM F1554 GR. 55
4	CONCRETE MIX DESIGN PLACEMENT OF CONCRETE	SPECIAL INSPECTOR	4-1400 PSI TYPE III CEMENT



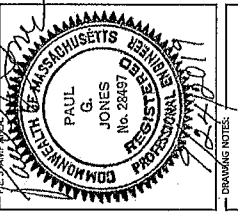
DESCRIPTION	QTY.	SIZE	LENGTH	WEIGHT	OVERLAP
VERTICAL BARS	8	#6	5'-5"	66 LBS.	N/A
HORIZONTAL TIES	10	#4	8'-4"	55 LBS.	2'-0"

PLANS PREPARED FOR:  
**exinet**  
 1000 RIVER STREET  
 WILMINGTON, MA 01897  
 508-392-7600

PLANS PREPARED BY:  
**US/SYNERGETIC**  
 Precision Planning, Engineering & Construction  
 1000 RIVER STREET  
 WILMINGTON, MA 01897  
 508-392-7600  
 www.usnet.com

**FOR PERMITTING PURPOSES ONLY**

LOCATION:  
 497 BROADWAY  
 SOMERVILLE, MA 02145  
 MIDDLESEX COUNTY

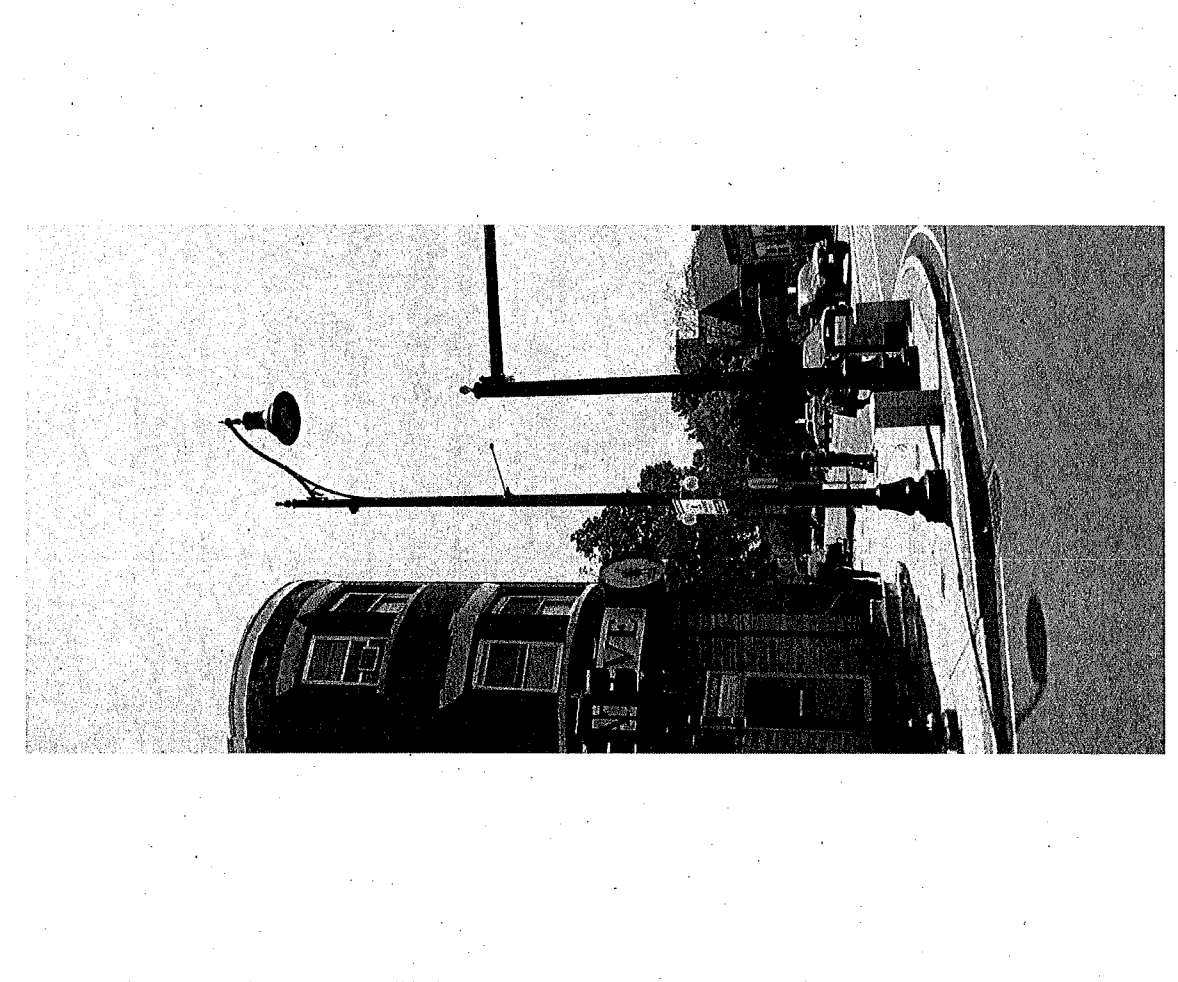
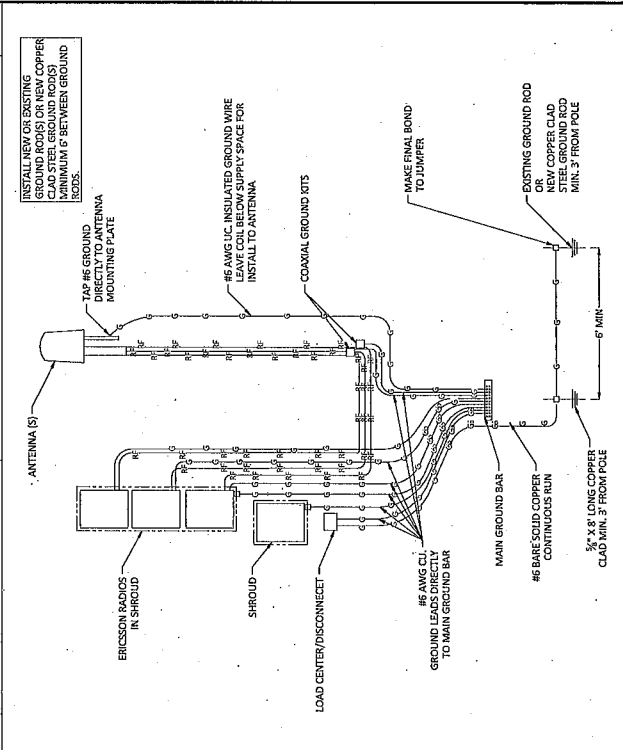
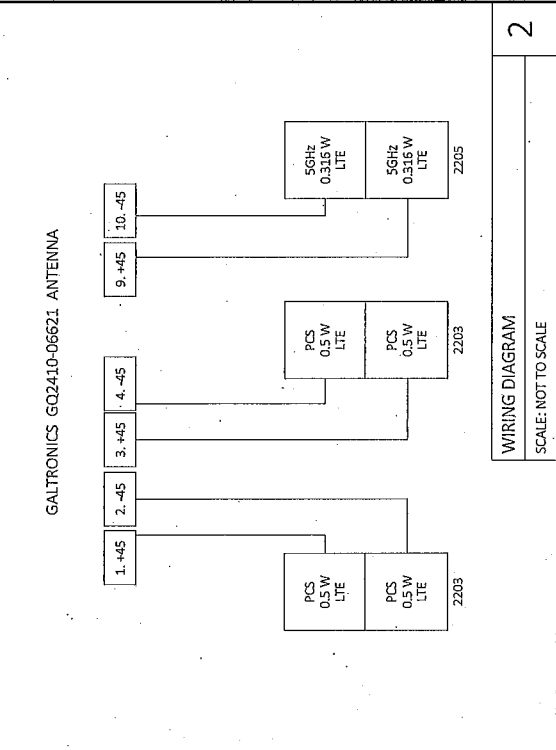


DRAWING NOTES:

ORIGINAL PLAN: AS NOTED  
 SCALE: AS NOTED  
 DRAWN BY: JR  
 PLAN ORG. DATE: 1/27/19

REV.	DESCRIPTION	BY	DATE
1	ADD S&W LIND	LEC	06/17/15
2	UPDATE ADDRESS IN PCS	LEC	07/17/15
3	UPDATE ADDRESS	LS	9/24/15

SITE NO. 19744528\*  
 LAT: 42.5710413955\*  
 LONG: -71.10413955\*  
 CRAN ID: CRAN\_RCTB\_2HA4\_038  
 EXHIBIT NODE ID: NE-MA-85TBSC01-00038  
 SITE ADDRESS: 497 BROADWAY  
 SHEET TITLE: GROUNDING & WIRING DIAGRAMS  
 SHEET NUMBER: D-4







497 Broadway

List of Abutters for Grant of Location

Assessor Parcel	Property Address	Abutter Name	Abutter Mailing Address
40_A_1	497 BROADWAY SOMERVILLE	491 BROADWAY LLC	1177 BROADWAY SOMERVILLE, MA 02144
32_C_2	BROADWAY SOMERVILLE	CITY OF SOMERVILLE	93 HIGHLAND AVE SOMERVILLE, MA 02143
40_I_1	531 MEDFORD ST SOMERVILLE	MAGOUN SQUARE REALTY LLC	PO BOX 45354 SOMERVILLE, MA 02145
32_B_4	499 BROADWAY SOMERVILLE	WANG MING & JING- WEI & YI	67 MAGOUN AVE MEDFORD, MA 02155
32_C_1	504 BROADWAY SOMERVILLE	CARRAS BETSY TRUSTEE	504 BROADWAY SOMERVILLE, MA 02145