



CITY OF SOMERVILLE

Commonwealth of Massachusetts

93 Highland Avenue

Somerville, MA 02143

(617) 625-6600

BUSINESS LICENSE APPLICATION - Grant of Location

File #: 19-013864

License #: BL19-000074

Address: 479 Canal St

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: Extenet proposes to install a small cell wireless facility on a replacement single acorn style light pole,utilizing a steel "look alike" pole. The replacement pole will be approximately two feet (2') higher than the existing pole and will have double acorn street light fixtures. The principal elements of the proposed facility are an antenna housed in a 24" long, 10" diameter shroud situated just above and between the proposed acorn light fixtures and three radio in a louvered structure approximately four feet (4')high at the base of the pole. 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 largely 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
Matthew McL.



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 Great River Road closest proximity to back of garages located at 479 Canal Street.

PLACE: City Council Chamber, 2nd 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

9_09 479 Canal St.

Extenet proposes to install a small cell wireless facility on a replacement single acorn style light pole, utilizing a steel "look alike" pole. The replacement pole will be approximately two feet (2') higher than the existing pole and will have double acorn street light fixtures. The principal elements of the proposed facility are an antenna housed in a 24" long, 10" diameter shroud situated just above and between the proposed acorn light fixtures and three radio in a louvered structure approximately four feet (4') high at the base of the pole. 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 largely 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

CANAL ID / EXTENET ID: CRAN_RCTB_00009_09/NE-MA-BSTBSC01-09_09

LATITUDE / LONGITUDE: 42.394338 / -71.077552

SITE ADDRESS: 479 CANAL ST
CITY, STATE, ZIP: SOMERVILLE, MA 02145

NOTE: GENERAL CONTRACTOR IS REQUIRED TO CROSS CHECK COORDINATES, EXHIBIT PHOTO, AERIAL PHOTO AND AERIAL PHOTO FOR ANY DISCREPANCIES. ANY DISCREPANCIES SHOULD BE IMMEDIATELY DIRECTED TO ASSIGNED EXTENET PROJECT MANAGER.

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

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 THE INSTALLATION OF ANY SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE.

SITE INFORMATION

CRAN ID:	CRAN_RCTB_00009_09
EXTENET NODE ID:	NE-MA-BSTBSC01-09_09
LATITUDE:	42.394338
LONGITUDE:	-71.077552
SITE ADDRESS:	479 CANAL ST
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

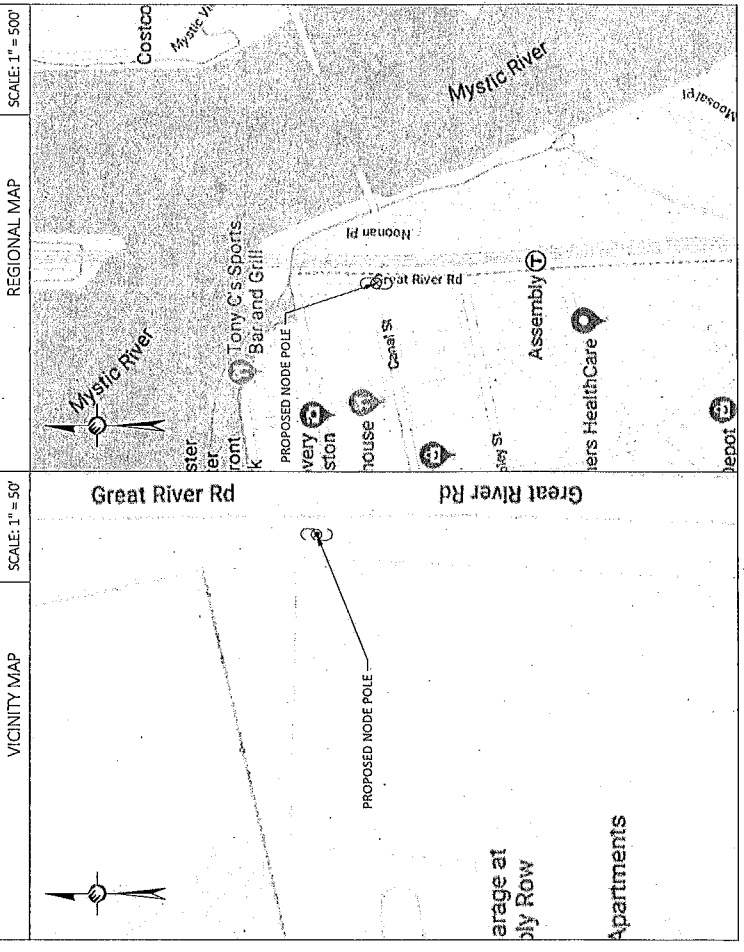
ENGINEER

RICK ANGELINI
3030 WARRENVILLE RD
SUITE 340
LISLE, IL 60532
DOC: (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 SITE PLAN INCLUDING THE LOCATION OF AN ANTENNA AND RADIO EQUIPMENT ON AN EXISTING WOODEN UTILITY OR REPLACEMENT METAL STREET LIGHT POLE.

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 TITLE
T-1	TITLE SHEET	TITLE SHEET
SP-1	SITE PLAN & EXHIBIT PHOTO	ADA SITE PLAN
EV-1	ELEVATION SIDE VIEW	ELEVATION SIDE VIEW
EV-2	ELEVATION REAR VIEW	ANTENNA DETAILS
AT-1	ANTENNA DETAILS	RADIO SHROUD DETAILS
RS-1	RADIO SHROUD DETAILS	CONCRETE FOUNDATION
CF-1	CONCRETE FOUNDATION	GENERAL NOTES
GN-1	GENERAL NOTES	GENERAL NOTES
GN-2	GENERAL NOTES	

PLANS PREPARED FOR:

PLANS PREPARED BY:

FOR PERMITTING PURPOSES ONLY

LOCATION: 479 CANAL ST
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

ORIGINAL PLAN: AS NOTED
DRAWN BY: JR
PLAN ORIG. DATE: 10/27/19

REV	DESCRIPTION	BY	DATE
1	NEW FORWARD	JMS	12/20/19
2	RELOCATION UPDATE	JR	04/02/19
3	UPDATED ADDRESS INFO	AC	07/17/19

SITE INFO:
LAT: 42.394338
LONG: -71.077552
CRAN ID: CRAN_RCTB_00009_09
EXTENET NODE ID: NE-MA-BSTBSC01-09_09
SITE ADDRESS: 479 CANAL ST
SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

PLANS PREPARED FOR

exfenet EXHIBIT SYSTEMS

PLANS PREPARED BY: **UC SYNERGETIC**
 21 OXFORD RD.
 MA 01904
 TEL: 508-337-2900
 WWW.UCSYN.COM

FOR PERMITTING PURPOSES ONLY

LOCATION:
 479 CANAL ST
 SOMERVILLE, MA 02145
 MIDDLESEX COUNTY

REGISTRATION NO. 28497
 PAUL G. JONES
 REGISTERED PROFESSIONAL ENGINEER
 COMMONWEALTH OF MASSACHUSETTS

DRAWING NOTES:

ORIGINAL PLAN:	AS NOTED
DRAWN BY:	JR
PLAN ORIG. DATE:	10/07/19

REV	DESCRIPTION	BY	DATE
1	NEW FORMAT	JR	04/02/19
2	RELOCATION UPDATE	JR	04/02/19
3	UPDATED ADDRESS INFO	AC	07/17/19

SITE INFO:
 LAT: 42.394838
 LONG: -71.077552

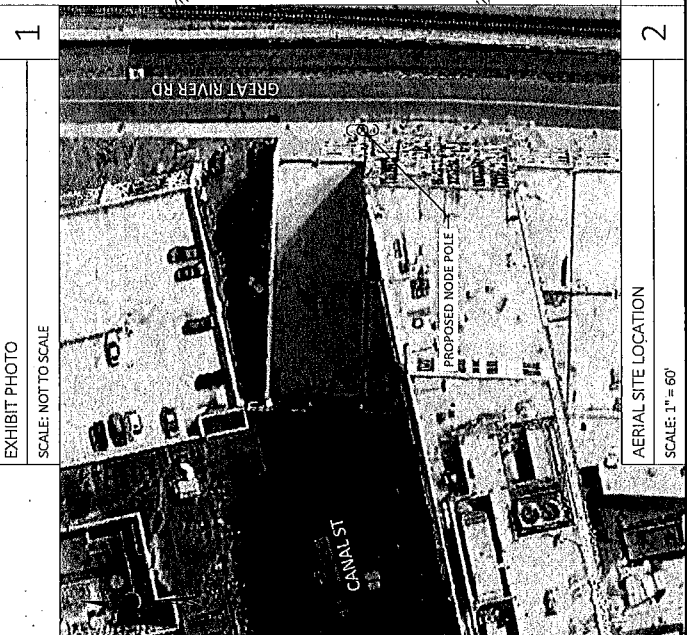
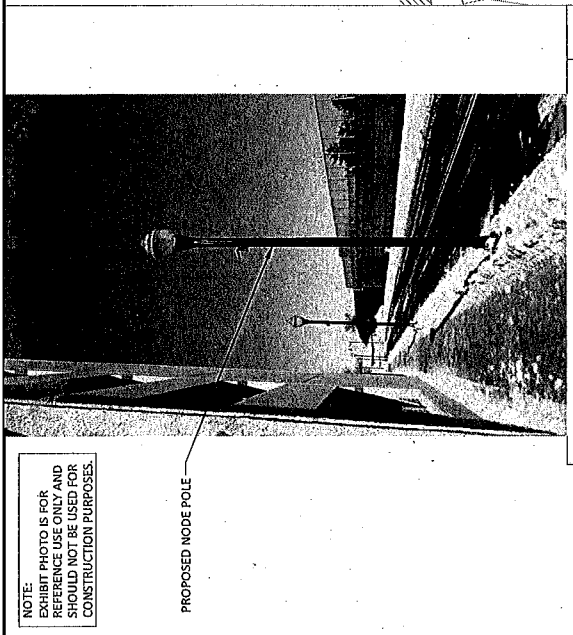
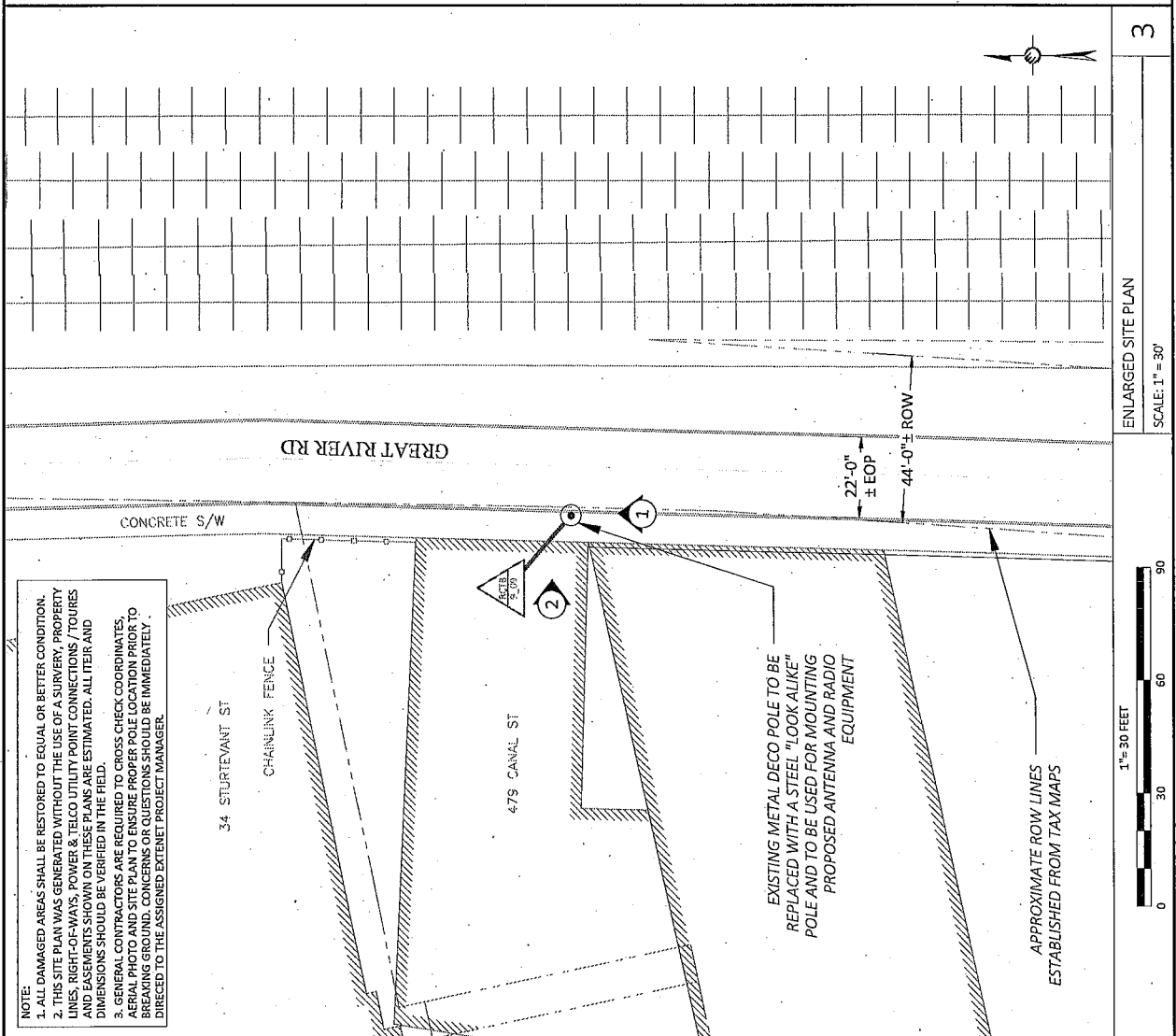
CRAN ID:
 CRAN_RCTB_00009_09

EXHIBIT NODE ID:
 NE-MA-BSTBSC01-09_09

SITE ADDRESS:
 479 CANAL ST

SHEET TITLE:
 SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER:
 SP-1



ENLARGED SITE PLAN
 SCALE: 1" = 30'



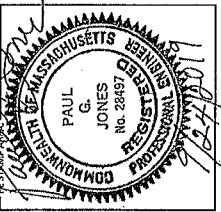
3

PLANS PREPARED FOR:
extenet SYSTEMS
 STATE, JR

PLANS PREPARED BY:
UK SYNERGETIC
 21 OXFORD RD
 WILMINGTON, MA 01897-2500
 www.uksynergetic.com

FOR PERMITTING PURPOSES ONLY

LOCATION:
 479 CANAL ST
 SOMERVILLE, MA 02145
 MIDDLESEX COUNTY



DRAWING NOTES:

ORIGINAL PLAN: AS NOTED
 SCALE: JR

REV	DESCRIPTION	BY	DATE
1	NEW FORMAT	MS	2/20/19
2	RELOCATION UPDATE	JR	04/02/19
3	UPDATED ADDRESS INFO	AC	07/17/19

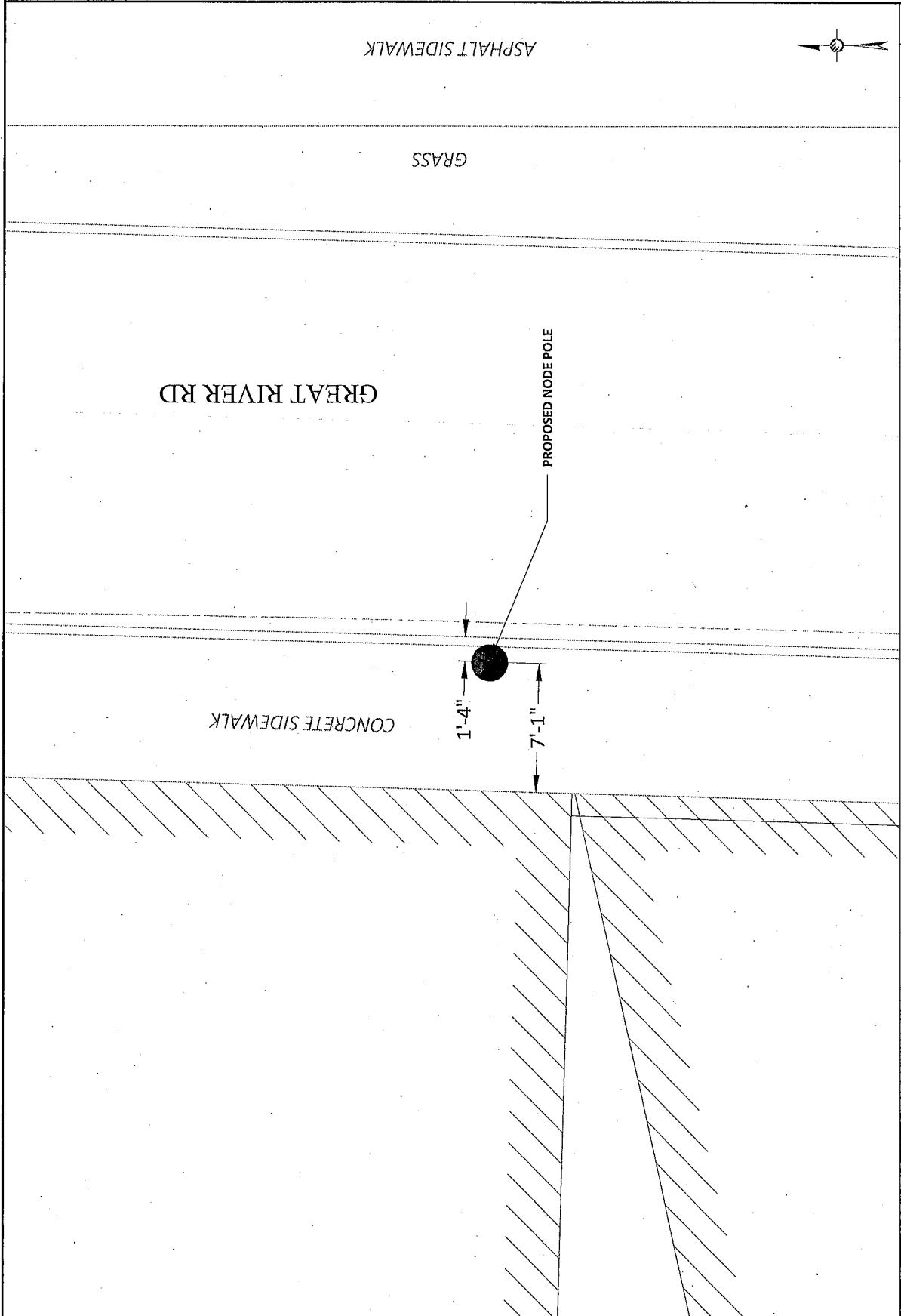
SITE INFO:
 LAT: 42.394838
 LONG: -71.077552

CRAN ID:
 CRAN_RCTB_00009_09

EXTENET NODE ID:
 NE-MA-BSTBSC01-09_09

SHEET TITLE:
 ADA SITE PLAN

SHEET NUMBER:
 SP-2



1

ADA SITE PLAN
 SCALE: 1" = 5'

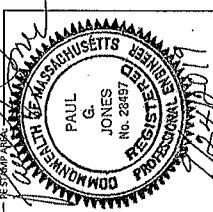
1" = 5 FEET

PLANS PREPARED FOR:
exlenet
 SYSTEMS INC.
 1000 WASHINGTON ST
 MANSFIELD, MA 02148
 508-337-7600

PLANS PREPARED BY:
US/SYNERGETIC
 1000 WASHINGTON ST
 MANSFIELD, MA 02148
 508-337-7600

**FOR PERMITTING
 PURPOSES ONLY**

LOCATION:
 479 CANAL ST
 SOMERVILLE, MA 02145
 MIDDLESEX COUNTY



DRAWING NOTES:
 ORIGINAL PLAN: AS NOTED
 SCALE: 1/8" = 1'-0"
 DRAWN BY: JR
 PLAN DATE: 12/27/19
 REVISIONS:

REV	DESCRIPTION	BY	DATE
1	NEW PERMIT	JR	12/27/19
2	RELOCATION UPDATE	JR	12/27/19
3	UPDATED ADDRESS INFO	JR	12/27/19

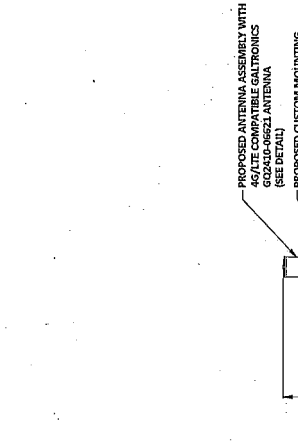
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 LAT: 42.394338
 LONG: -71.077552
 CRAN ID:
 CRAN_RCTB_00009_09
 EXENET NODE ID:
 NE-MA-BSTBSC01-09_09
 SITE ADDRESS:
 479 CANAL ST
 SHEET TITLE:
 POLE ELEVATIONS
 SHEET NUMBER:
 EV-1

DRAWINGS NOTES:
 NOTE 1:
 40' MIN. WORKER SAFETY ZONE
 SHALL BE MAINTAINED AROUND
 ALL POLES AND EQUIPMENT
 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.

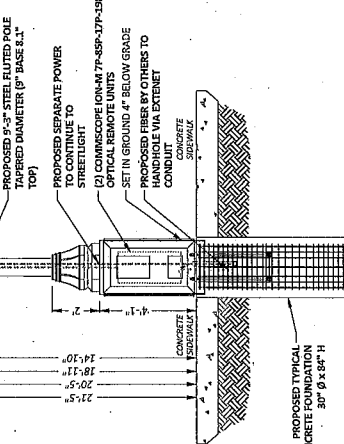
NOTE 1:
 REMOVE EXISTING ACORN STREETLIGHT POLE WITH
 DOUBLE ACORN STEEL POLE ADD ANTENNA / RADIO
 EQUIPMENT.
NOTE 2:
 ABSOLUTELY NO FIELD CUTTING OR CORING OF
 METALLIC OR COMPOSITE POLES TO BE ALLOWED.
 NO EXISTING OR PROPOSED AERIAL SPANNING
 ATTACHMENTS ARE ALLOWED TO BE ATTACHED TO
 THIS POLE.
CONSTRUCTION NOTE:
 REMOVE ANY CONDUCTORS, CONDUIT, OR OTHER
 ATTACHMENTS THAT WILL NOT BE IN USE 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 DECAYED, AND
 NOT BEING MOVED OR MOVING EXCESSIVELY BEFORE
 ANY WORK IS STARTED.



1 PROPOSED PROFILE - SIDE VIEW
 LOOKING NORTH ALONG GREAT RIVER RD



1 EXISTING PROFILE - SIDE VIEW
 LOOKING NORTH ALONG GREAT RIVER RD



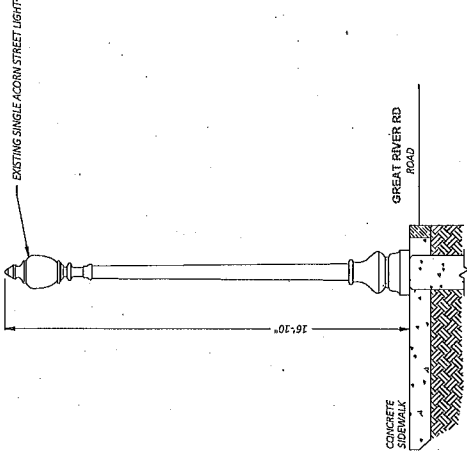
POLE ELEVATIONS
 SCALE: 1" = 5'

1

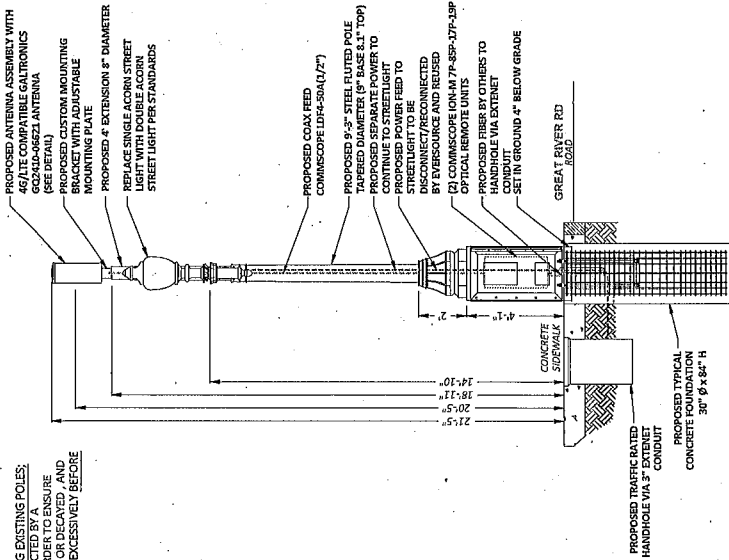
DRAWINGS NOTES:

- NOTE 1: WORKER SAFETY ZONE 40' MIN. BETWEEN LOWEST POWER & HIGHEST POWER ATTACHMENTS 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: EXISTING ACORN STREET LIGHT POLE WITH DOUBLE ACORN STEEL POLE ADD ANTENNA / RADIO EQUIPMENT.
- NOTE 2: ABSOLUTELY NO FIELD CUTTING OR CORING OF METAL OR COMPOSITE POLES TO BE ALLOWED. 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 IN USE AFTER PROPOSED WORK IS COMPLETED.
- ENGINEERING NOTE: REGARDING EXISTING POLES; RESPONSIBLE TECHNICIAN IN ORDER TO ENSURE THAT THEY ARE NOT DAMAGED OR DECAYED, AND THAT THEY ARE BEING REMOVED EXCESSIVELY BEFORE ANY WORK IS STARTED.



② EXISTING PROFILE - REAR VIEW
LOOKING EAST FROM 479 CANAL ST



② PROPOSED PROFILE - REAR VIEW
LOOKING EAST FROM 479 CANAL ST



POLE ELEVATIONS
SCALE: 1" = 5'

1

<p>PLANS PREPARED FOR</p> <p>PLANS PREPARED BY:</p> <p>225 OGDEN RD MIDDLESEX COUNTY, MA 01468 www.ucsynergistic.com 1-888-337-7620</p>	<p>FOR PERMITTING PURPOSES ONLY</p> <p>LOCATION: 479 CANAL ST. SOMERVILLE, MA 02145 MIDDLESEX COUNTY</p>	<p>DRAWING NOTES:</p>	<p>ORIGINAL PLAN: AS NOTED SCALE: AS NOTED DRAWN BY: JR PLAN ORIG. DATE: 10/20/19</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NEW FORMAT</td> <td>JR</td> <td>10/20/19</td> </tr> <tr> <td>2</td> <td>RELOCATION UPDATE</td> <td>JR</td> <td>04/02/19</td> </tr> <tr> <td>3</td> <td>UPDATED ADDRESS INFO</td> <td>AC</td> <td>07/17/19</td> </tr> </tbody> </table>	REV	DESCRIPTION	BY	DATE	1	NEW FORMAT	JR	10/20/19	2	RELOCATION UPDATE	JR	04/02/19	3	UPDATED ADDRESS INFO	AC	07/17/19	<p>SITE INFO: LAT: 42.394338 LONG: -71.077552</p> <p>CRAN ID: CRAN_RCTB_00009_09</p> <p>EXTENET NODE ID: NE-MA-BSTBSC01-09_09</p> <p>SITE ADDRESS: 479 CANAL ST</p> <p>SHEET TITLE: POLE ELEVATIONS</p> <p>SHEET NUMBER: EV-2</p>
REV	DESCRIPTION	BY	DATE																		
1	NEW FORMAT	JR	10/20/19																		
2	RELOCATION UPDATE	JR	04/02/19																		
3	UPDATED ADDRESS INFO	AC	07/17/19																		

PLANS PREPARED FOR:
extenei YOUR NETWORK. EVERYWHERE. SYSTEM

PLANS PREPARED BY:
US SYNERGETIC
1000 STATE ST. SUITE 200
MA 02125, MA 02125
1-508-837-7200
www.useng.com

FOR PERMITTING PURPOSES ONLY

LOCATION:
479 CANAL ST
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

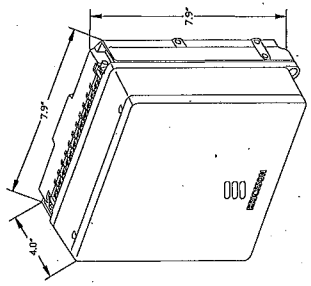
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
PAUL G. JONES
No. 28487

DRAWING NOTES:

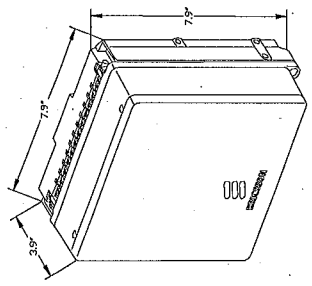
ORIGINAL PLAN	AS NOTED
SCALE	AS NOTED
DRAWN BY:	JR
PLANNING DATE:	02/07/19

REV	DESCRIPTION	BY	DATE
1	NEW FORMAT	MS	12/20/19
2	RELOCATION UPDATE	JR	01/02/20
3	UPDATED ADDRESS INFO	JR	01/07/20

SITE INFO:
LAT: 42.394338
LONG: -71.077552
CRAN ID: CRAN_RCTB_00009_09
ENGINEER NO: NE-MA-BSTBSC01-09_09
SITE ADDRESS: 479 CANAL ST
SHEET TITLE: ANTENNA DETAILS
SHEET NUMBER: AT-1

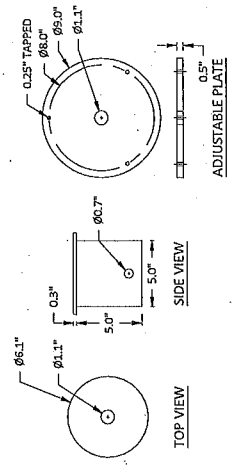


ERICSSON RADIO 2205 WITH COVER



ERICSSON RADIO 2203 WITH COVER

ERICSSON 2203 & 2205 RADIOS WITH COVER
POLE MOUNT REMOTE UNIT
SCALE: NOT TO SCALE

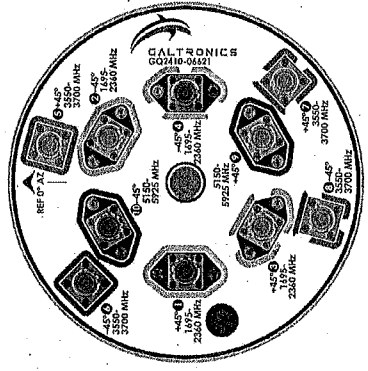
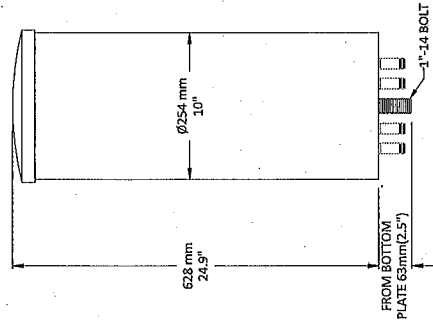


CUSTOM MOUNTING BRACKET
SCALE: NOT TO SCALE



24"x 10" Pseudo Omni 10-Port Canister Antenna [1695-2360, 3550-3700 and 5150-5925 MHz]
GQ2410-06621

- Description:
- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells.
 - 4x ports for AWS/PCS/WCS Band 1695-2360 MHz
 - 4x ports for CBRS Band 3550-3700 MHz
 - 2x ports for UNII Band 5150-5925 MHz*




GALTRONICS GQ2410-06621 ANTENNA
SCALE: NOT TO SCALE

1


2

3

PLANS PREPARED FOR:

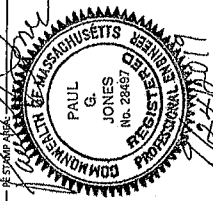


PLANS PREPARED BY:



FOR PERMITTING PURPOSES ONLY

LOCATION: 479 CANAL ST
SOMERVILLE, MA 02145
MIDDLESEX COUNTY



DRAWING NOTES:

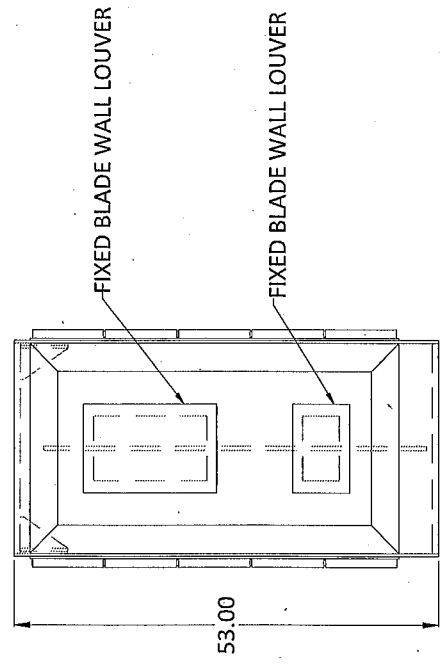
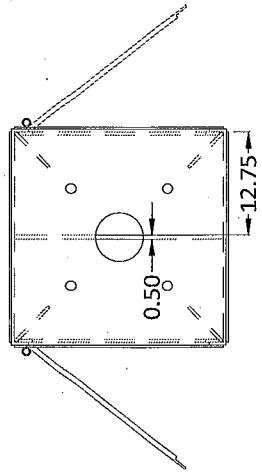
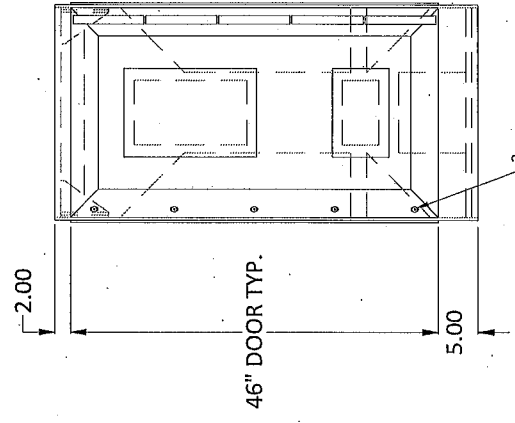
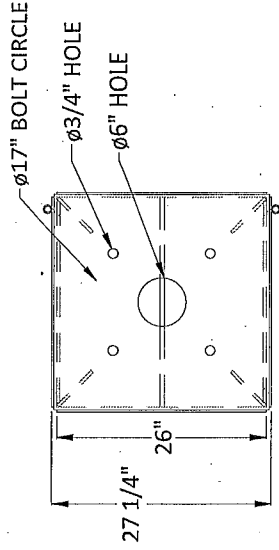
ORIGINAL PLAN	AS NOTED
DRAWN BY:	JR
PLAN DATE:	10/27/19

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CRAN ID: CRAN_RCTB_00009_09
EXETER NODE ID: NE-MA-BSTBSC01-09_09
SITE ADDRESS: 479 CANAL ST

SHEET TITLE: RADIO SHROUD DETAILS
SHEET NUMBER: RS-1



STEEL ELECTRICAL ENCLOSURE

HP COMMUNICATIONS DUAL ION SHROUD
SCALE: NOT TO SCALE
1

PLANS PREPARED FOR: **extened** SYSTEMS

PLANS PREPARED BY: **UC SYNERGETIC**
 1000 WASHINGTON ST., SUITE 200
 MA 02125-1414
 508-897-7600
 www.ucsynergetic.com

FOR PERMITTING PURPOSES ONLY

LOCATION: 479 CANAL ST.
 SOMERVILLE, MA 02145
 MIDDLESEX COUNTY

PAUL G. JONES
 No. 28897
 REGISTERED PROFESSIONAL ENGINEER
 COMMONWEALTH OF MASSACHUSETTS

DRAWING NOTES:

ORIGINAL PLAN: AS NOTED
 SCALE: AS NOTED
 DRAWN BY: JR.
 PLAN DATE: 02/07/19

REVISIONS:

REV	DESCRIPTION	BY	DATE
1	NEW FORMAT	JR	02/07/19
2	RELOCATION UPDATE	JR	04/02/19
3	UPDATED ADDRESS INFO	JR	07/17/19

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 LAT: 42.394338
 LONG: -71.077552
 GRAN ID: CRAN_RCTB_00009_09
 SYSTEM NO: NE-MA-BST0001-09_09
 SITE ADDRESS: 479 CANAL ST
 SHEET TITLE: CONCRETE FOUNDATION
 SHEET NUMBER: CF-1

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND FACILITIES PRIOR TO EXCAVATING ANY MATERIALS.
- CONTRACTOR SHALL INSPECT AND RESIGNE ALL DEBERS FROM BOTTOM OF EXCAVATION.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO, AND IMMEDIATELY AFTER PLACING CONCRETE ANCHOR BOLT LAYOUTS CONFORMING TO ASTM A15 GR. 60 (80,000 PSI MIN. YIELD). CONTRACTOR SHALL USE AND PROVIDE PERFORMED REINFORCING BARS CONFORMING TO ASTM A15 GR. 60 (80,000 PSI MIN. YIELD). CONTRACTOR SHALL USE AND PROVIDE REINFORCING BARS TO BE USED IN ALL VERTICAL BARS IN THIS PERIOD. SUBSTITUTE BARS ARE GR. 60 DEFORMED BARS.
- CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL BE MAXIMUM STONE AGGREGATE MAX. DESIGN OF 1/2 SIZES OF CEHMENT MINIMUM PER CUBIC YARD, 5" MINIMUM AND 7" MAXIMUM CONCRETE SLUMP.
- THROUGHOUT DEPTH OF FOUNDATION, VIBRATING LOWER METHODS MAY BE ACCOMPLISHED BY TOUCHING REBAR CAGE WITH VIBRATOR.
- CONTRACTOR SHALL PROVIDE TEMPORARY CASING TO STABILIZE THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATION. THE CASING SHALL BE PLACED USING CONVENTIONAL METHODS. THE CASING SHALL BE PLACED BELOW WATER USING TRIMME METHODS. AND THE ABOVE CONCRETE SHALL NOT FREE FALL MORE THAN 5 FT. CONCRETE MAY BE PLACED IN LIFTS. THE REBAR CAGE SHALL BE PLACED IN THE EXCAVATION AND CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. COLD JOINTS ARE NOT ALLOWED.
- CONTRACTOR SHALL PROVIDE APPROXIMATE CONCRETE COVERAGE OVER REINFORCING BARS TO MINIMIZE CORROSION POTENTIAL. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CLASS MATERIAL.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 1" CLEARANCE BETWEEN REBAR AND SMOOTH CONCRETE.
- DRILLED PIER FOUNDATION DESIGN PER 2002/02 B.C. TABLE 1005.2.
- CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. APPROXIMATELY 1.1 CU. YDS.

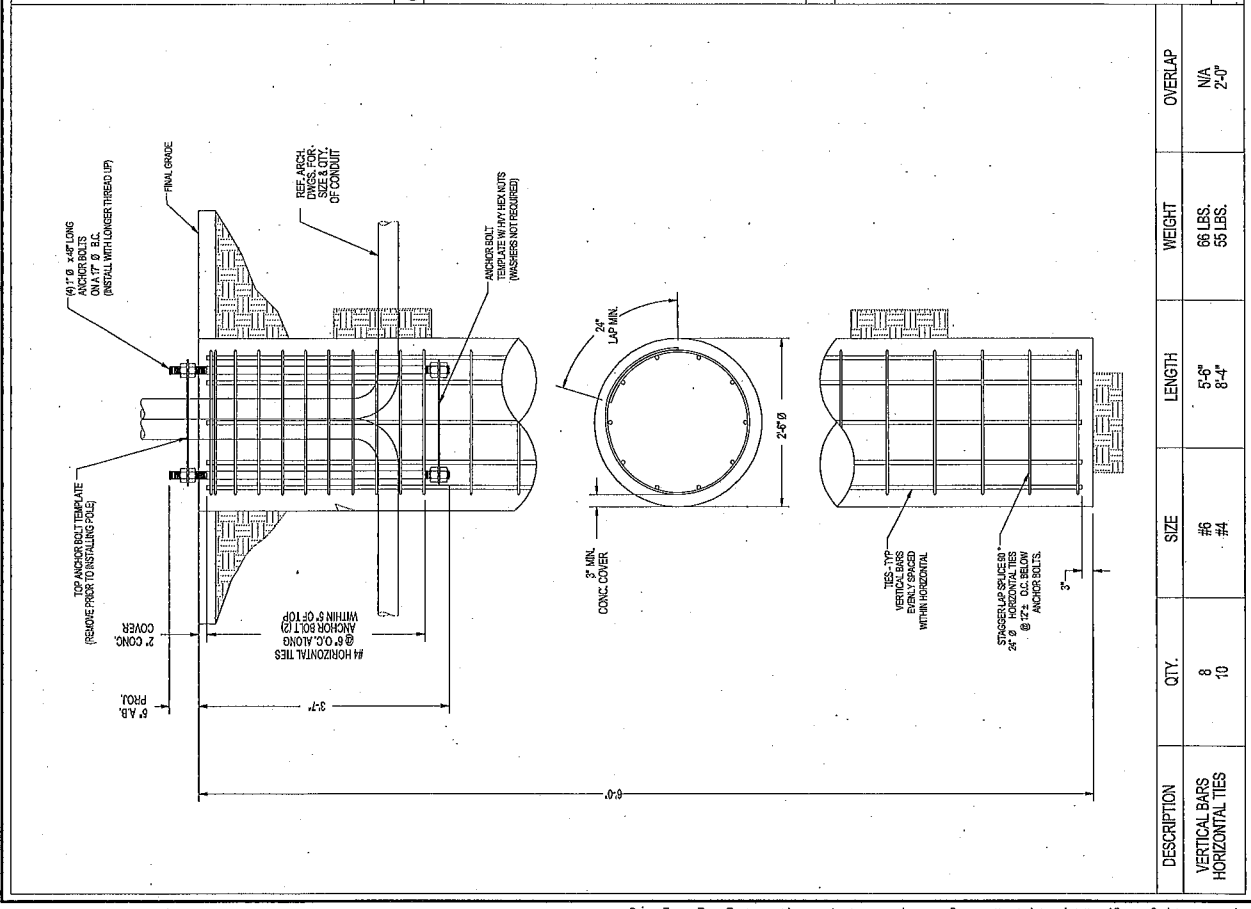
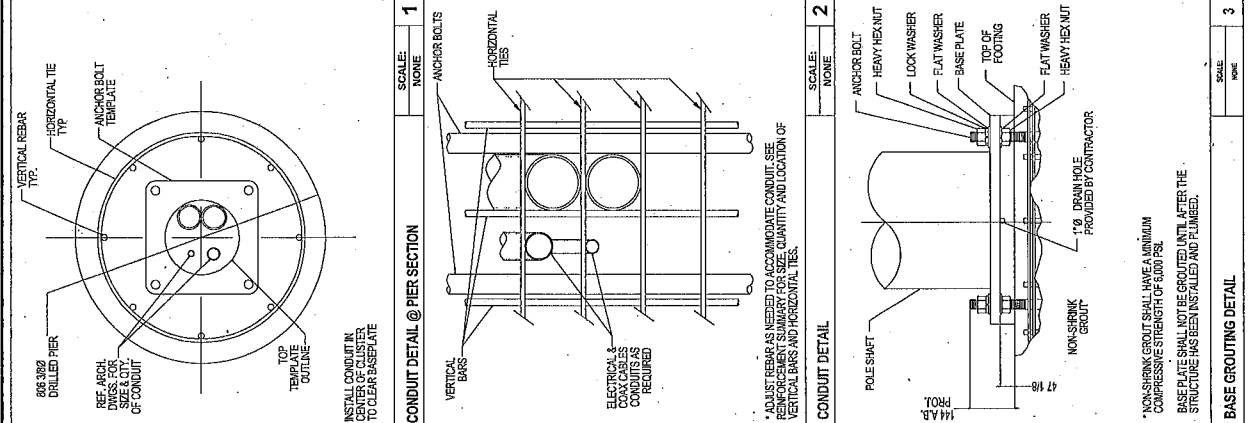
FACTORED BASE REACTIONS

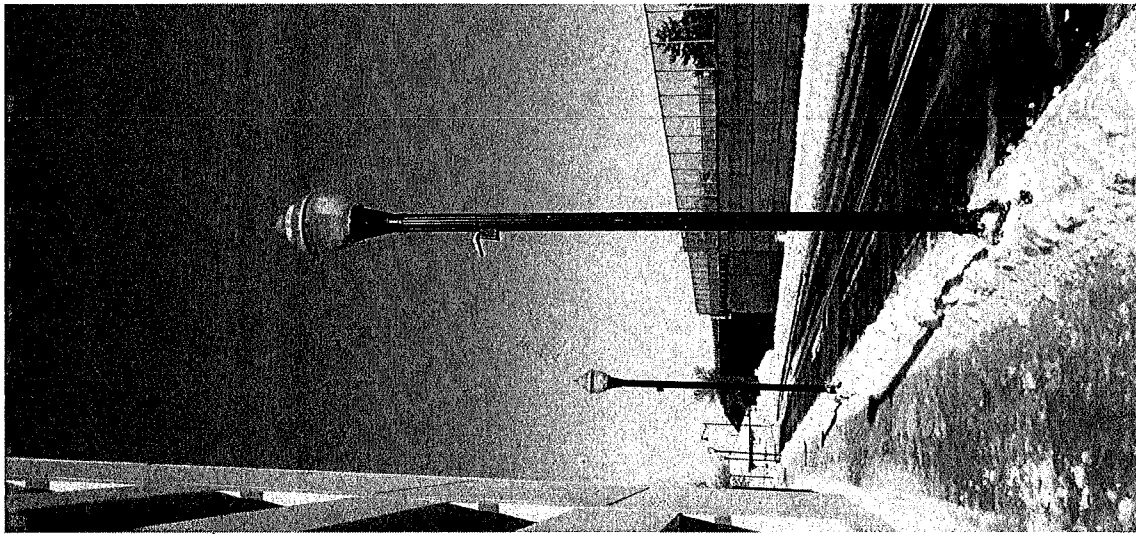
MOMENT = 30.9 ft-kips
 SHEAR = 2.46 kips
 VERTICAL = 1.67 kips

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 2002/02 B.C. SECTION 1704

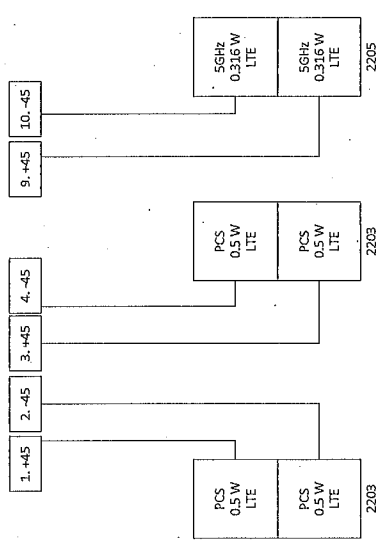
ITEM	DESCRIPTION	INSPECTION BY	MATERIAL
1	PIER EXCAVATION LATERAL BEARING CAPACITY	SOILS ENGINEER	300 PSF FT LATERAL
2	PIER CONSTRUCTION REINFORCING STEEL BAR SIZES AND INSTALLATION	SPECIAL INSPECTOR	ASTM A15 GR. 60
3	ANCHOR BOLTS, BOLT SIZE AND LENGTHS INSTALLATION	SPECIAL INSPECTOR	ASTM A15 GR. 60
4	CONCRETE PLACEMENT INSPECTION	SPECIAL INSPECTOR	4,000 PSI TYPE I CEMENT



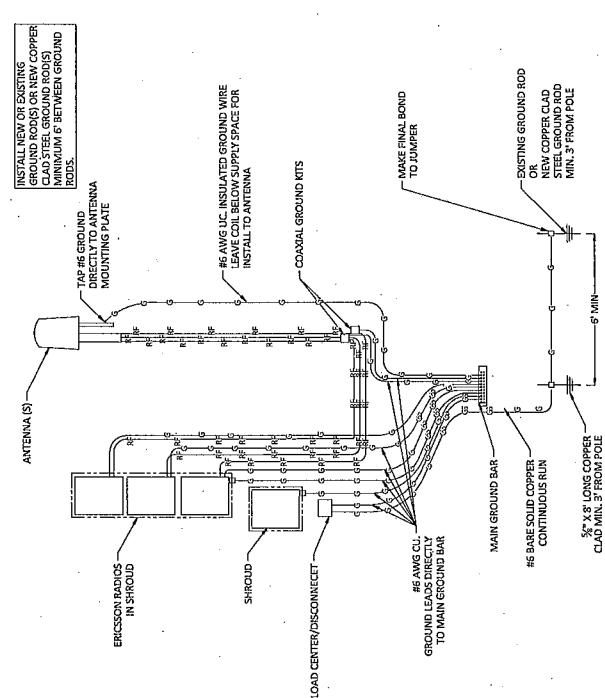


EXISTING POLE
SCALE: NOT TO SCALE

GALTRONICS GQ2410-06621 ANTENNA



WIRING DIAGRAM
SCALE: NOT TO SCALE



GROUNDING DIAGRAM
SCALE: NOT TO SCALE

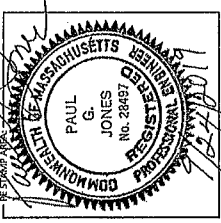
PLANS PREPARED FOR:

PLANS PREPARED BY:

www.usceng.com

FOR PERMITTING PURPOSES ONLY

LOCATION: 479 CANAL ST
SOMERVILLE, MA 02145
MIDDLESEX COUNTY



DRAWING NOTES:

ORIGINAL PLAN	AS NOTED	
SCALE	J.R.	
DATE	12/07/19	
DESCRIPTION		
REV	BY	DATE
1	JR	12/07/19
2	JR	01/02/20
3	JR	07/27/19

REVISIONS:

SITE INFO:
LAT: 42.394338
LONG: -71.077552

CRAN ID: CRAN_RCTB_00009_09

EXPANSET NODE ID: NE-MA-BSTBSC01-09_09

SITE ADDRESS: 479 CANAL ST

SHEET TITLE: GROUNDING & WIRING DIAGRAIR

SHEET NUMBER: GW-1

