

ALD McLAUGHLIN
1 UTILITY REP



CITY OF SOMERVILLE, MASSACHUSETTS
CITY CLERK'S OFFICE

JOSEPH A. CURTATONE
MAYOR

JOHN J. LONG
CITY CLERK

October 17, 2017

NOTICE

You are hereby notified that the Board of Aldermen will hold a Public Hearing on the following Petition. You are receiving this Notice because City records indicate 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.

PETITION: Lighttower Fiber Networks is applying for a Grant of Location to replace and relocate a pendant streetlight 10 feet east of its current location at 445 Artisan Way, with a new ODAS node and accessory equipment installed.

PLACE: Aldermanic Chambers, 2nd Floor, City Hall, 93 Highland Avenue, Somerville.

TIME: Thursday, October 26, 2017, at 7:00 PM.

PURPOSE: The work is necessary to extend and improve existing cellular network coverage in the area.

John J. Long
City Clerk



CITY OF SOMERVILLE, MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS

JOSEPH A. CURTATONE
MAYOR

STAN KOTY
Commissioner

RICK WILLETTE
Director of Operations

September 29, 2017

The Honorable Board of Aldermen
City Hall
93 Highland Avenue
Somerville MA, 02143

**RE: Grant of Location
Lighttower Fiber Network
445 Artisan Way**

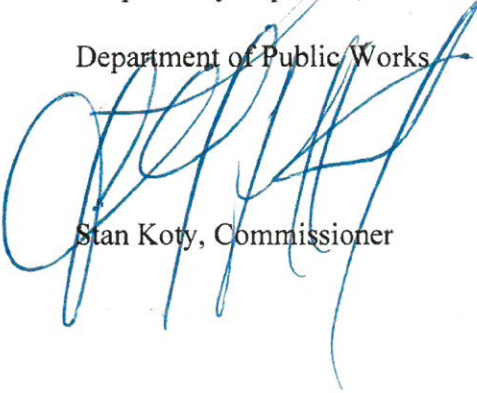
Dear Board Members:

Preliminary approval is recommended for the petition and plan of Lighttower Fiber Network to relocate pendant streetlight 10' east of existing location and install new ODAS node.

This recommendation is made with reference to Lighttower's letter and plan of September 6, 2017. Upon stipulation that the Grant of Location is subject to: a reservation of rescission by the Board of Aldermen; indemnification of the City for all liability arising from said Grant; all permit procedures, conditions and approvals of municipal utilities; protection of existing infrastructure; and complete surface repair, restoration and maintenance. A public hearing will be required.

Respectfully requested,

Department of Public Works


Stan Koty, Commissioner



CITY OF SOMERVILLE
Commonwealth of Massachusetts
93 Highland Avenue
Somerville, MA 02143
(617) 625-6600

BUSINESS LICENSE APPLICATION - Grant of Location

File #: 17-017817

License #: BL17-000134

Address: 0 ASSEMBLY ROW

Licensee: Brian Shanley UC Synergetic

DBA Name: Lighttower Fiber Networks

Business Ownership Type: LLC

Legal Name of Entity: Lighttower Fiber Networks

Owners/Officers: Rob Shanahan, , ,

License Information:

Grant of location issued to: Lighttower Fiber Networks

Describe the reason for the work, and the intended beneficiaries: Work is needed to extend and improve existing cellular network coverage in this area. Intended beneficiaries are Somerville residents, business owners, and customers in the surrounding area.

Insert here the same detailed description of the work as appears in the attached Grant of Location Order: Location: Existing pendant streetlight located f/o #445 Artisan Way, at the corner of Artisan Way and Assembly Row. Work: Replacement of existing pendant streetlight with form factor and construction meeting City of Somerville requirements, and relocation of streetlight to a point approximately 10' East of existing location. Replacement streetlight is needed to allow installation of new ODAS node SC-MA-0280 (CRAN_RCTB_00009_20) and necessary equipment, as described in attached plan.

Approval Conditions:

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

City of Somerville, Massachusetts
In Board of Aldermen

WHEREAS, LIGHTOWER FIBER NETWORKS (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

Location: Existing pendant streetlight located f/o #445 Artisan Way, at the corner of Artisan Way and Assembly Row.

Work: Replacement of existing pendant streetlight with form factor and construction meeting City of Somerville requirements, and relocation of streetlight to a point approximately 10' East of existing location.

Replacement streetlight is needed to allow installation of new ODAS node SC-MA-0280 (CRAN_RCTB_00009_20) and necessary equipment, as described in attached plan.

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 9/06/2017, 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

SHEET INDEX	
NO.	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS
3	PROPOSED CONDITIONS
4	PHOTO SIMULATION
5	FOUNDATION DETAILS
6	ANTENNA DETAILS
7	ENCLOSURE DETAILS
8	BRACKET DETAILS



SMALL CELL
CRAN_RCTB_00009_20
PROPOSED NODE SC-MA 0280 LOCATION
SOMERVILLE, MASSACHUSETTS

SITE INFORMATION:

LEGEND	
	PROPOSED NODE
	JOINT UTILITY POLE
	LAMP POST
	STREET LIGHT
	TRAFFIC/PEDESTRIAN SIGNAL
	HYDRANT
	PARKING METER
	SIGN
	CATCH BASIN
	ELECTRIC MANHOLE
	UNKNOWN MANHOLE
	UNKNOWN HANDHOLE

SOMERVILLE, MASSACHUSETTS
EXISTING LOCATION:
42.395094°, -71.079280°
PROPOSED LOCATION:
42.395110°, -71.079190°
POLE OWNER:
CITY OF SOMERVILLE
NOTES:

PREPARED FOR:
lighttower
fiber networks

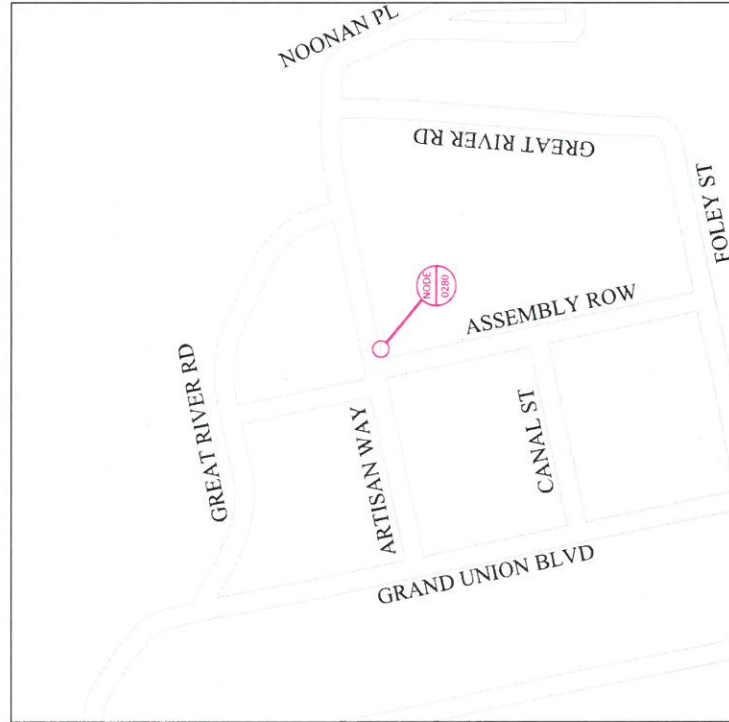
PREPARED BY:
UC SYNERGETIC
Infrastructure Planning & Engineering Solutions
1000 Washington Street
MASSACHUSETTS 02108
www.ucsyng.com 1-800-337-7600

REV	DESCRIPTION	DATE

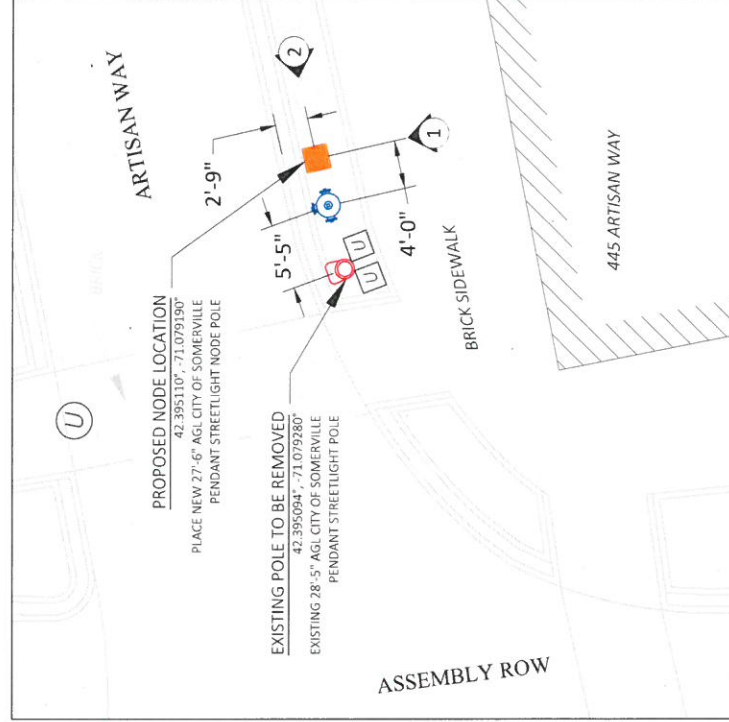
DRAWING TITLE:
COVER SHEET

DRAWER: SAJ	DRAWING NO.
SCALE: AS NOTED	
DATE: 09/01/17	
DRAWN BY: SC MA 0280	

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

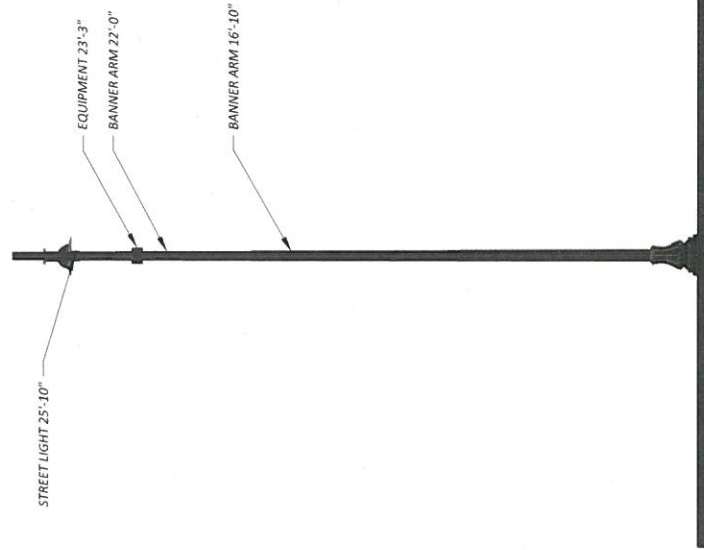


VICINITY MAP
1" = 250'

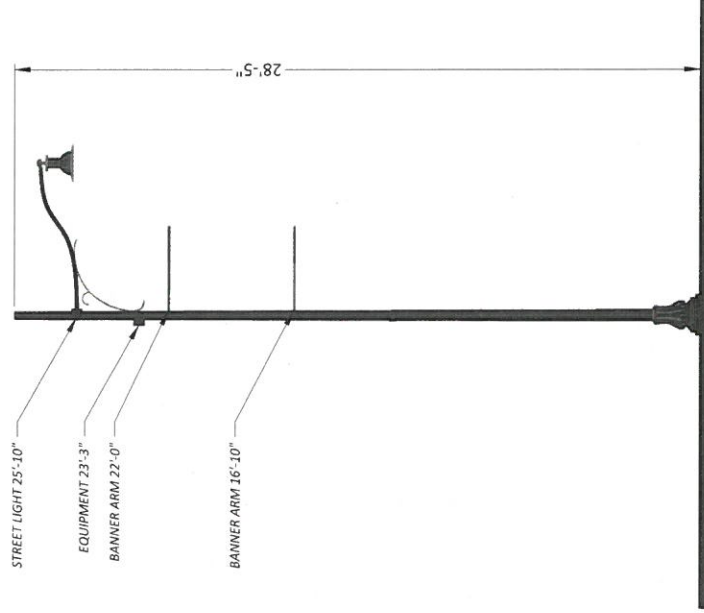


NODE PLACEMENT
1" = 10'

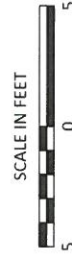
NOTE:
 REPLACE EXISTING 28'-5" AGL PENDANT STREETLIGHT POLE
 WITH NEW 27'-6" AGL PENDANT STREETLIGHT NODE POLE



① EXISTING PROFILE - REAR VIEW
 LOOKING NORTHWEST TOWARDS ARTISAN WAY



② EXISTING PROFILE - SIDE VIEW
 LOOKING SOUTHWEST TOWARDS ASSEMBLY ROW



FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

SOMERVILLE, MA
 POLE OWNER:
 CITY OF SOMERVILLE
 NOTES:

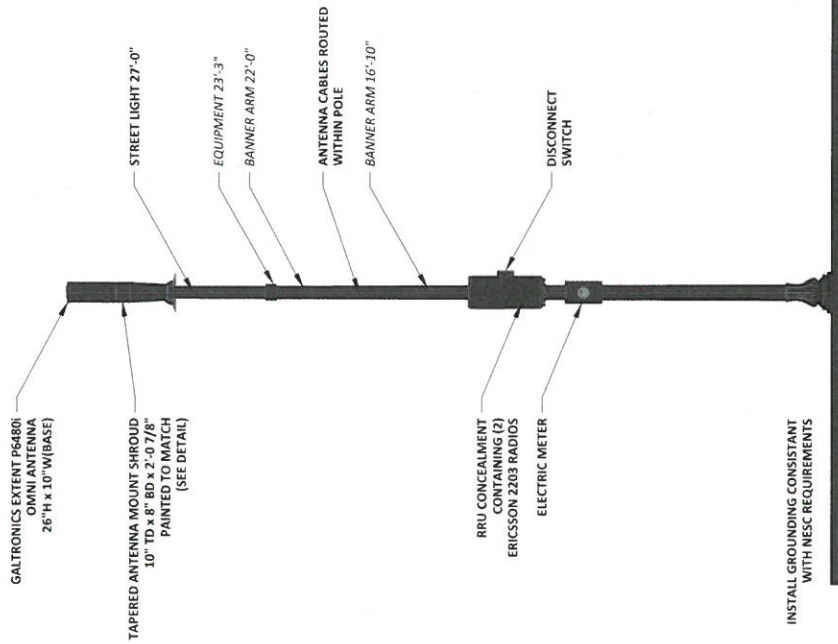
PREPARED FOR:
lighttower
 fiber networks

PREPARED BY:
UC / SYNERGETIC
 211 Main Street, 3rd Floor
 Mansfield, MA 02048
 www.ucsfmg.com 1-508-337-7600

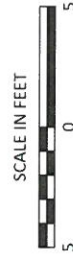
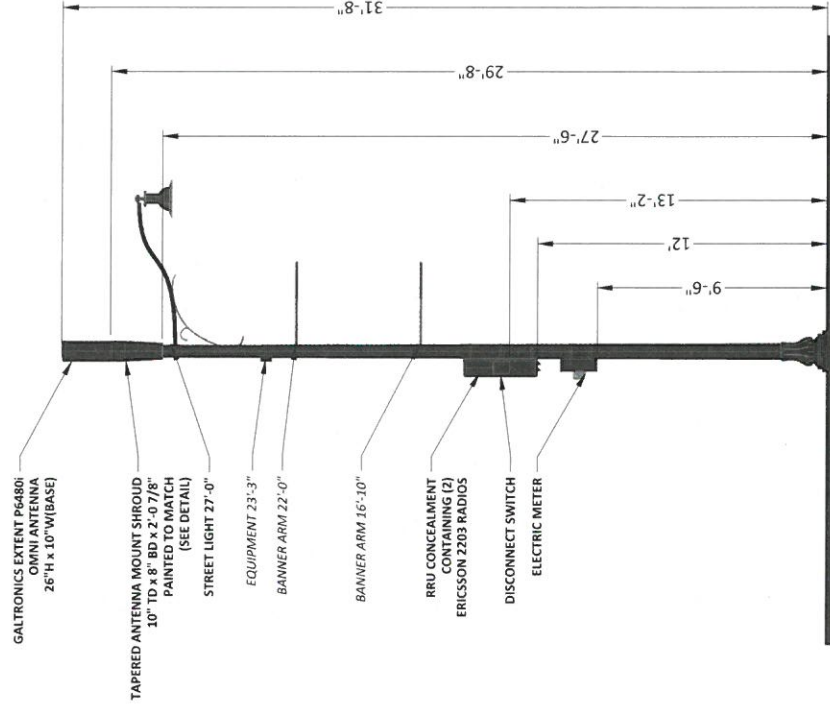
REVISIONS	
REV	DESCRIPTION

DRAWING TITLE:
 EXISTING CONDITIONS
 DRAWING NO.
 2
 DRAFTER: BAI
 SCALE: 1" = 1'-0"
 ISSUE DATE: 09/06/17
 ISSUE NAME: SC: 04-0100

NOTE:
REPLACE EXISTING 28'-5" AGL PENDANT STREETLIGHT POLE
WITH NEW 27'-6" AGL PENDANT STREETLIGHT NODE POLE



1 PROPOSED PROFILE - REAR VIEW
LOOKING NORTHWEST TOWARDS ARTISAN WAY



2 PROPOSED PROFILE - SIDE VIEW
LOOKING SOUTHWEST TOWARDS ASSEMBLY ROW

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION



PROPOSED TOP VIEW

SOMERVILLE, MA

POLE OWNER: CITY OF SOMERVILLE

NOTES:

PREPARED FOR:

lighttower
fiber networks

PREPARED BY:

UC SYNERGETIC
221 OXFORD RD
MA 01904
www.ucsynerg.com

REV	DESCRIPTION	DATE

DRAWING TITLE:

PROPOSED CONDITIONS

DRAWN BY:	BAI
CHECKED BY:	
DATE:	09/01/17
SCALE:	1" = 1'
PROJECT NAME:	SC-MA-030
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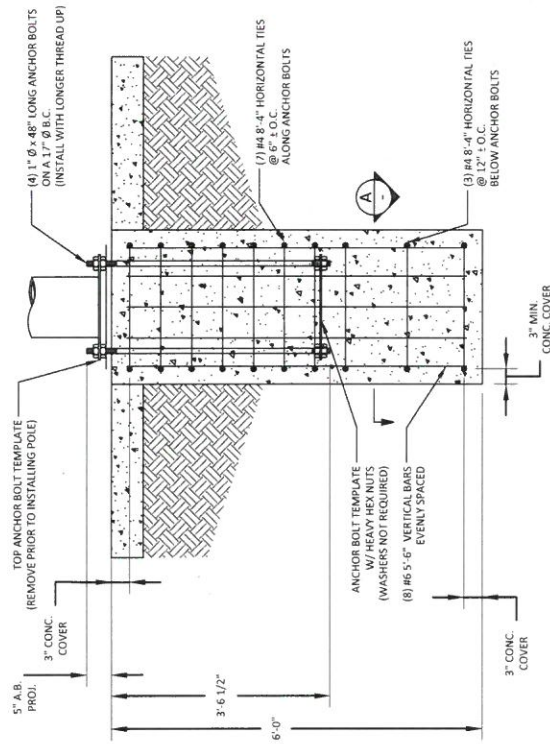
EXISTING SIDE PHOTOGRAPHIC VIEW
42.395094°, -71.079280°



PROPOSED SIDE PHOTOGRAPHIC SIMULATION
42.395110°, -71.079190°

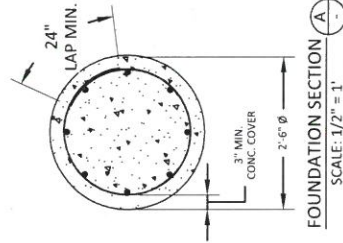
FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

SOMERVILLE, MA																							
ROLE OWNER:	CITY OF SOMERVILLE																						
NOTES:																							
PREPARED FOR:																							
PREPARED BY:	UC SYNERGETIC																						
21 OXFORD RD MANSFIELD, MA 02048 www.ucsynerg.com 1.508.337.7600																							
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>REV</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>		REVISIONS		REV	DESCRIPTION																		
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ISSUE NAME:	SC-MA-0300																						
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4																							



FOUNDATION ELEVATION
SCALE: 1/2" = 1'

- FOUNDATION NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND FACILITIES PRIOR TO EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATION.
 - CONTRACTOR SHALL INSPECT AND REMOVE ALL DEBRIS FROM BOTTOM OF EXCAVATION.
 - CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO, AND IMMEDIATELY AFTER PLACING CONCRETE. ANCHOR BOLT LAYOUT IS CRITICAL FOR MONOPOLE INSTALLATION.
 - CONTRACTOR SHALL USE AND PROVIDE DEFORMED REINFORCING BARS CONFORMING TO ASTM A615 GR. 60 (60,000 PSI MIN. YIELD). CONTRACTOR SHALL USE STEEL WIRE TO HOLD REINFORCING BARS TOGETHER. IF WELDING REBAR IS PREFERRED, SUBSTITUTE USING A508 GR. 60 DEFORMED BARS.
 - CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL USE 1" MAXIMUM STONE AGGREGATE. MIX DESIGN: 5 1/2 SACKS OF CEMENT MINIMUM PER CUBIC YARD, 5" MINIMUM AND 7" MAXIMUM CONCRETE SLUMP.
 - CONTRACTOR SHALL VIBRATE CONCRETE TO REMOVED AIR ENTRIES. VIBRATING LOWER DEPTHS MAY BE ACCOMPLISHED BY TOUCHING REBAR CAGE WITH VIBRATOR.
 - CONTRACTOR SHOULD ANTICIPATE THE USE OF A FULL-LENGTH TEMPORARY CASING TO STABILIZE THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATION.
 - CONCRETE MAY BE PLACED BELOW WATER USING TREMIE METHODS.
 - CONCRETE SHALL BE PLACED TO THE DEPTH INDICATED, AND THE ABOVE GRADE PORTION SHALL BE FORMED. THE REBAR CAGE ANCHOR BOLTS, AND CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. COLD JOINTS ARE NOT ALLOWED.
 - REINFORCING BARS TO MINIMIZE CORROSION POTENTIAL, UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CONCRETE COVER OVER REBAR. TOP OF FOOTING SHALL BE TROWELLED LEVEL AND SMOOTH.
 - DRILLED PIER FOUNDATION DESIGN PER 2009 IBC, TABLE 1806.2, CLASS 5 MATERIAL.
 - TOTAL VOLUME OF CONCRETE REQUIRED FOR THIS FOUNDATION IS APPROXIMATELY 1.5 CU. YDS.

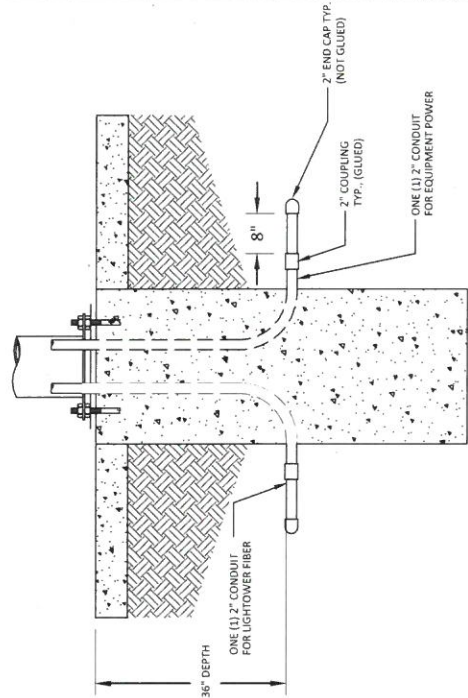


FOUNDATION SECTION A-A
SCALE: 1/2" = 1'

MATERIAL REQUIREMENTS

ASTM STANDARD

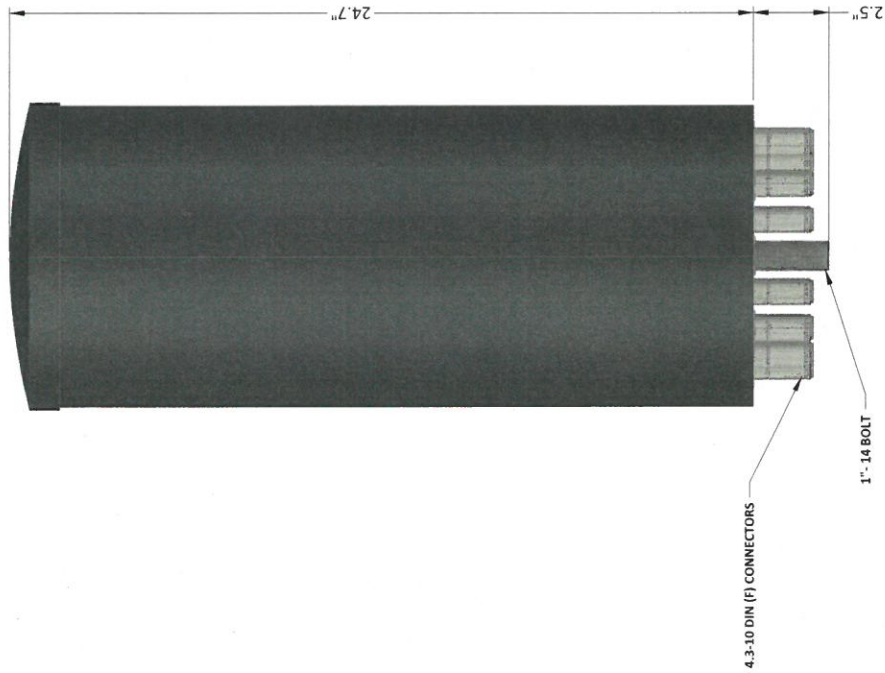
DESCRIPTION	QTY	SIZE	LENGTH
VERTICAL BARS	8	#6	5'-6"
HORIZONTAL TIES	10	#4	8'-4"
CONCRETE	1.5 CUBIC YARDS		



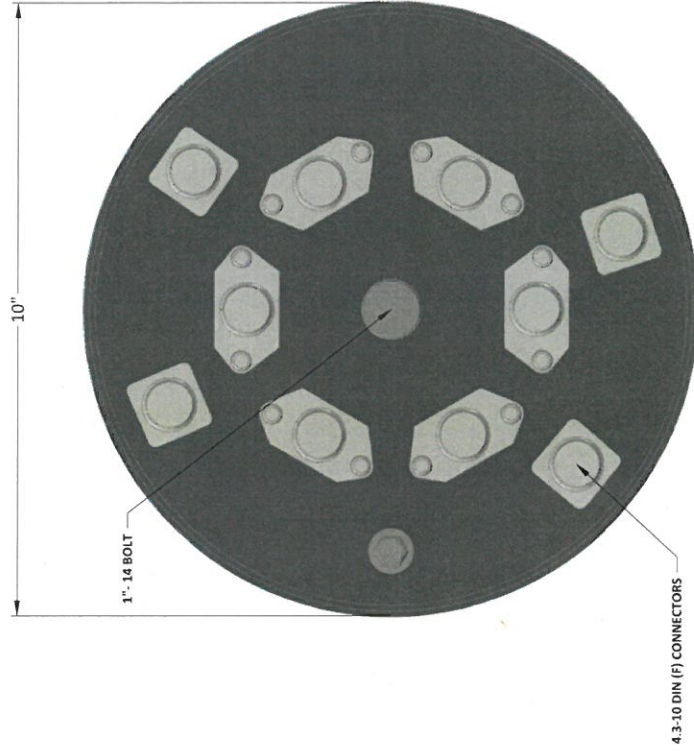
CONDUIT ELEVATION DETAIL
SCALE: 1/2" = 1'

- CONDUIT NOTES:**
- FIBER AND POWER CONDUIT ORIENTATION/DIRECTION SHOWN IS FOR PICTORIAL REFERENCE ONLY. PLEASE CONTACT THE LIGHTOWER FIBER CONSTRUCTION ENGINEER (FCE) FOR ACTUAL ORIENTATION/DIRECTION OF CONDUITS.
 - POLE FOUNDATION/CONDUIT INSTALLER TO ADD A 2" PVC COUPLING, MINIMUM 8" LONG SECTION OF 2" PVC PIPE, AND 2" PVC PIPE CAP (CAP NOT TO BE GLUED/CEMENTED) OR OTHER MEANS TO EACH SWEEP ELBOW COMING OF THE FOUNDATION BELOW GROUND LEVEL AND TO EXTEND FAST CONCRETE FOUNDATION TO INSURE NO CONCRETE RE-ENTERS THE PIPE EXTERIOR.
 - POLE FOUNDATION/CONDUIT INSTALLER TO PLACE MULE/PULL TAPE IN ALL CONDUITS.
 - ALL CONDUIT SHALL BE PLACED UP AND THROUGH CENTER/INTERIOR OF POLE (NOT EXTERIOR) UNLESS OTHERWISE SPECIFIED.

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION



GALTRONICS EXTENT P6480i
SIDE VIEW



GALTRONICS EXTENT P6480i
BOTTOM VIEW

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

SOMERVILLE, MA
FOLE OWNER: CITY OF SOMERVILLE
NOTES:

PREPARED FOR:

lighttower
fiber networks

PREPARED BY:

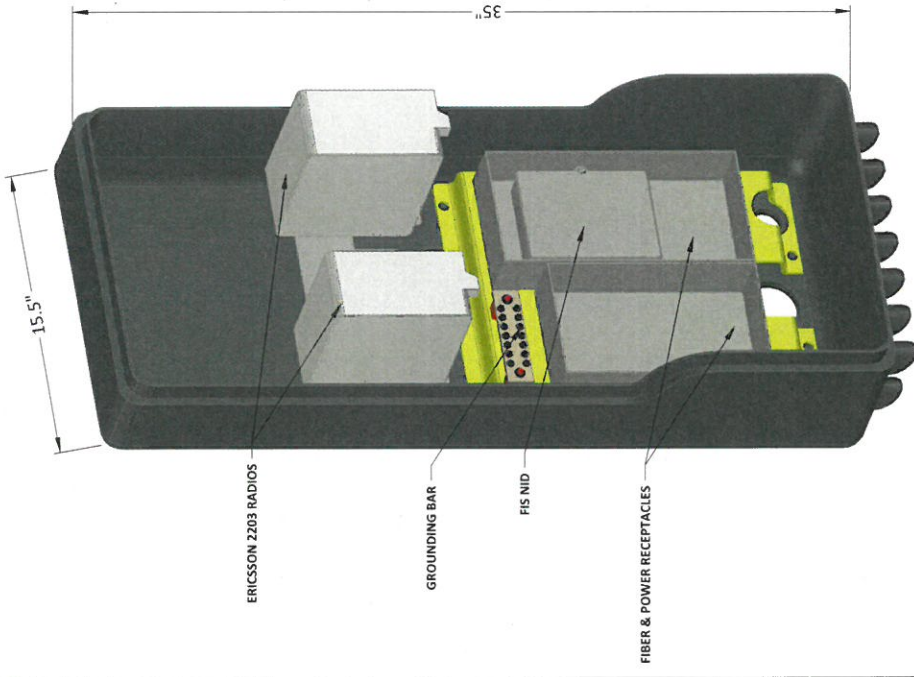
UC SYNERGETIC
University of Connecticut
MANSFIELD, MA 02048
www.ucsf.org 1-508-337-7600

REV	DESCRIPTION	DATE

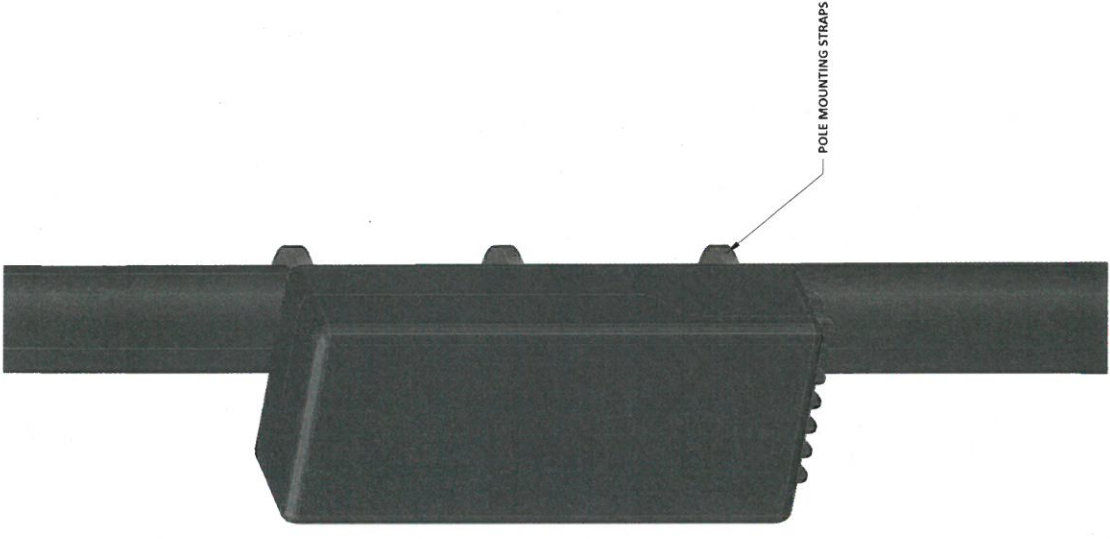
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ANTENNA DETAILS

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DRAWN BY	
CHECKED BY	
DATE	
SCALE	
INCHES	



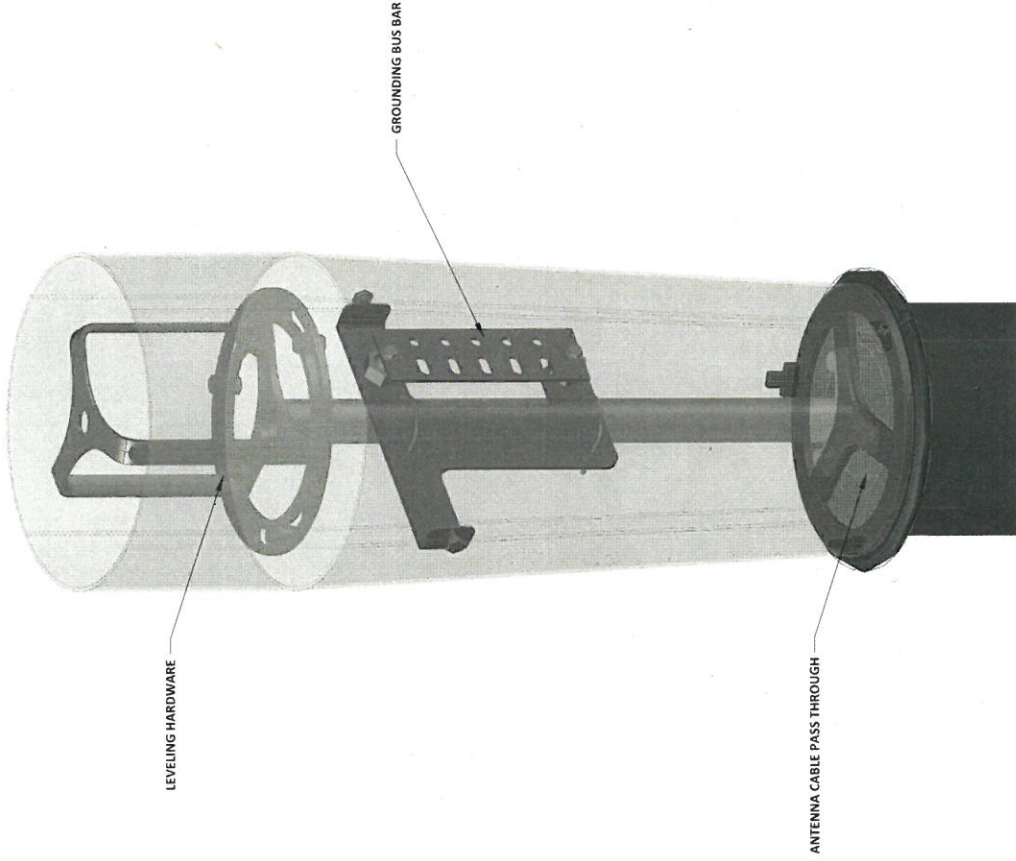
ERICSSON RRU CONCEALMENT
CONCEPTUAL VIEW



ERICSSON RRU CONCEALMENT
CONCEPTUAL VIEW

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

SOMERVILLE, MA		lighttower fiber networks PREPARED BY: UC SYNERGETIC 211 SYNERGETIC RD. MANSFIELD, MA 02048 www.ucsfeg.com 1-508-337-7600																		
POLE OWNER: CITY OF SOMERVILLE																				
NOTES:		REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV	DESCRIPTION	DATE															
REV	DESCRIPTION	DATE																		
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DRAWING NO.	7	DRAFTER: BM SCALE: NTS PLOT DATE: 09/04/17 PLOT NAME: SC-MK-0280																		



ANTENNA BRACKET ASSEMBLY & SHROUD
CONCEPTUAL VIEW

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

SOMERVILLE, MA

FOLE OWNER: CITY OF SOMERVILLE

NOTES:

PREPARED FOR:

lighttower
fiber networks

PREPARED BY:

UC SYNERGETIC
Professional Services
21 OXFORD ST.
MANSFIELD, MA 02048
www.ucsynerg.com 1.508.337.7600

REVISIONS	
REV	DESCRIPTION

DRAWING TITLE:

ANTENNA BRACKET

DRAWING NO.	
DATE: 04/11/2017	SCALE: NTS
DESIGNED BY: 0000037	DATE: 04/11/2017
INCH NAME: 1/4" = 1'-0"	SCALE: 1/4" = 1'-0"

8



Artisan Way at Assembly Row Abutters

1 inch = 378 feet



9/27/2017

Data and scale shown on this map are provided for planning and informational purposes only. SOMERVILLE (MA) and Vision Government Solutions are not responsible for any use for other purposes or misuse or misrepresentation of this information.

Abutting Properties for
0 ASSEMBLY ROW SOMERVILLE, MA
99/ A/ 17/ /
(300 feet)

Location:
85/ A/ 10/ /
355 ARTISAN WAY
Owner:
STREET RETAIL INC
C/O FEDERAL REALTY INVEST TRUST
1626 EAST JEFFERSON ST
ROCKVILLE, MD 20852

Location:
85/ A/ 11/ RETAIL/
445 ARTISAN WAY
Owner:
STREET RETAIL INC
C/O FEDERAL REALTY INVESTMENT
TRUST
1626 EAST JEFFERSON ST
ROCKVILLE, MD 20852-4014

Location:
99/ A/ 17/ /
0 ASSEMBLY ROW
Owner:
SRI ASSEMBLY ROW B6 LLC
C/O FEDERAL REALTY INVESTMENT
TRUST
1626 EAST JEFFERSON ST
ROCKVILLE, MD 20852

Location:
85/ A/ 11/ RES/
445 ARTISAN WAY
Owner:
STREET RETAIL INC
C/O TAX DEPT AVALONBAY
COMMUNITIES INC
671 N GLEBE RD SUITE 800
BALLSTON TOWER
ARLINGTON, VA 22203