EXHIBIT X-1A

TEMPLATE FOR
SCHEDULE OF APPROVED WIRELESS FACILITIES
(To be completed for each Approved Wireless Facility design)

<table>
<thead>
<tr>
<th>Facility Number</th>
<th>X-1A – Standard Concrete Light Pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment Types</td>
<td>X_ Replacement City Pole (streetlight)</td>
</tr>
<tr>
<td></td>
<td>___ Replacement City Property Pole (streetlight)</td>
</tr>
<tr>
<td></td>
<td>___ Attach to existing City Pole (streetlight)</td>
</tr>
<tr>
<td></td>
<td>___ Attach to existing City Property Pole (streetlight)</td>
</tr>
<tr>
<td></td>
<td>___ Attach to existing City Pole (traffic signal)</td>
</tr>
<tr>
<td></td>
<td>___ Attach to existing City Property Pole (traffic signal)</td>
</tr>
<tr>
<td></td>
<td>___ Attach to existing City Pole (street furniture)</td>
</tr>
<tr>
<td></td>
<td>___ Attach to existing City Property Pole (street furniture)</td>
</tr>
<tr>
<td></td>
<td>___ Attach to Non-City Pole</td>
</tr>
<tr>
<td>Attachment Type Detail</td>
<td>Concrete Style Poles located within an intersection at the discretion of Boston Street Lighting.</td>
</tr>
<tr>
<td>Physical Description</td>
<td>Antenna System (no more than 42&quot; diameter and 30&quot; height) mounted to exterior of pole and painted to match pole. Antenna system can be installed above or below light fixture. Antenna system can be installed with previously approved exhibit X-1 antenna or as stand-alone system. Radio equipment, power and fiber equipment concealed within expanded base, not to exceed 26&quot; square and 46&quot; tall. Base is to be painted to match exterior pole.</td>
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<tr>
<td></td>
<td>Overall height of replacement pole not to exceed 20% of existing pole height (not including antennas)</td>
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<tr>
<td>Concealment</td>
<td>Pole top antenna and related cabling will be contained as detailed above. Cabling will be routed within the replacement pole structure and will connect to the equipment housed within the expanded base. A decorative pole base will provide a transition from the pole to the expanded base.</td>
</tr>
<tr>
<td>Included Documents</td>
<td>The following documents:</td>
</tr>
<tr>
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<td>--------------------------</td>
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<tr>
<td></td>
<td>A. Replacement Pole Profile including fixture type(s), equipment specifications, and foundation and grounding details.</td>
</tr>
<tr>
<td></td>
<td>B. Photo showing an example of each Attachment Type listed or checked above.</td>
</tr>
<tr>
<td></td>
<td>C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility as installed.</td>
</tr>
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<tr>
<th>RF Compliance Information</th>
<th>□ Facility conforms to information already on file RF information attached</th>
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<th>Comments</th>
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STANDARD CONCRETE LIGHT POLE
EXISTING CONDITIONS - EXHIBIT X-1

SUBMITTALS

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1170X173 21 Oxford Rd
Mansfield, MA 02048
www.piketelecom.org
1-508-337-7600
NEW TECHNOLOGY NOTE:
THE MAXIMUM ANTENNA SYSTEM SHOWN MAY BE INSTALLED IN CONJUNCTION WITH THE PREVIOUSLY APPROVED EXHIBIT X ANTENNA OR AS A STANDALONE CONFIGURATION.

GENERAL NOTES:
1. ALL DISTANCES, DIMENSIONS, LOCATIONS, EQUIPMENT DESIGNATIONS AND SPECIFICATIONS ARE APPROXIMATE.
2. ALL MATERIALS WILL RESEMBLE CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH. MATERIALS & LIGHT FIXTURE TO BE SYNONYMOUS WITH SURROUNDING LIGHTS AT THAT LOCATION.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THESE DESIGNS ARE INHERENTLY APPROXIMATE IN NATURE AND SHOULD NOT BE USED AS AN EXACT, SCALED ENGINEERING DRAWING.
5. POLE REPLACEMENT HEIGHTS WILL VARY BASED ON REQUIRED ANTENNA HEIGHTS REQUESTED BY EX TENET SYSTEMS.
6. EQUIPMENT CLOSURE TO BE NO LARGER THAN (53"Hx26"Wx26"D).
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. 14' EXISTING POLE TO BE REPLACED WITH NEW POLE WITH A MAX HEIGHT OF 16.8'
19' EXISTING POLE TO BE REPLACED WITH NEW POLE WITH A MAX HEIGHT OF 22.8'
24' EXISTING POLE TO BE REPLACED WITH NEW POLE WITH A MAX HEIGHT OF 28.8'
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9. EXTENET SYSTEMS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT WILL BE INSTALLED AT THE SAME HEIGHT AS EXISTING.
11. LUMINARIE ARM WILL BE INSTALLED AT THE SAME HEIGHT AS EXISTING. ANY CHANGES TO EXISTING HEIGHT REQUIRES PRIOR APPROVAL BY THE CITY OF BOSTON'S STREET LIGHT DEPARTMENT.
12. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
13. ORNAMENTAL DECORATIVE FIXTURES WILL BE IDENTICAL TO THE EXISTING FIXTURE UNLESS THE EXISTING FEATURE IS A METAL HALIDE OR HIGH PRESSURE SODIUM FIXTURE. IN THESE SCENARIOS, THE FIXTURE WILL BE UPGRADED TO AN APPROVED LED FIXTURE.
14. STANDARD CONCRETE POLES AND POLE HEIGHTS SHALL BE APPROVED FOR THE FOLLOWING LUMINARY FIXTURES: AERIETA, COBRA, DOUBLE COBRA, SHOEBOX, CURVED, DOUBLE CURVED, STRAIGHT, AND DOUBLE STRAIGHT.

STANDARD CONCRETE POLE ELEVATION - EXHIBIT X-1A

SCALE IN FEET

5 0 5

REV  DATE  DESCRIPTION  INITIALS
1  1/8/20  FOR SUBMITTAL  LS
STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1A
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STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1B
NEW TECHNOLOGY NOTE:
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3. It is assumed that all proposed utilities will be routed below grade to the proposed installation.

4. The purpose of the design shown is to show a conceptual design for the replacement/modifications of existing light pole. Therefore, these designs are inherently approximate in nature and should not be used as an exact, scaled engineering drawing.

5. Pole replacement heights will vary based on required antenna heights requested by Extenet Systems.

6. Equipment closure to be no larger than (53"Hx26"Wx26"D).

7. Antenna to be no larger than 16"øx40"H.

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   29' existing pole to be replaced with new pole with a max height of 34.8'.

9. Extenet Systems will place small placard on pole identifying ownership/contact information.

10. LED light will be installed at the same height as existing.

11. Luminaire arm will be installed at the same height as existing. Any changes to existing height requires prior approval by the City of Boston’s Street Light Department.

12. Proposed lighting will conform to the City of Boston’s lighting standards.

13. Ornamental decorative fixtures will be identical to the existing fixture unless the existing fixture is a metal halide or high pressure sodium fixture. In these scenarios, the fixture will be upgraded to an approved LED fixture.

14. Standard concrete poles and pole heights shall be approved for the following luminary fixtures: Aerieta, Cobra, Double Cobra, Shoebox, Curved, Double Curved, Straight, and Double Straight.
STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1C

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STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1D
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STANDARD CONCRETE POLE ELEVATION - EXHIBIT X-1E

SCALE IN FEET

5 0 5

FOR SUBMITTAL LS

1 1/8/20
STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1E
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CONCRETE SIDEWALK
ROAD
SET IN GROUND 4” BELOW GRADE

ANTENNA ASSEMBLY WITH
4G/LTE COMPATIBLE COMMSCOPE
NH360QS-DG-F0M ANTENNA
(SEE DETAIL)

PROPOSED (3) ANTENNAS WITH RADIOS
(PROVIDED BY OTHERS)

INSTALL LUMINARIE
PER C.O.B. STANDARDS

EXISTING POLE TO BE FIELD MODIFIED TO
ACCEPT ANTENNA/BASE

COAX FEED
COMMSCOPE LDF4-50A(1/2”)

PROPOSED FIBER TO VERIZON
MANHOLE VIA EXTENET CONDUIT

PROPOSED POWER FEED TO
STREETLIGHT TO BE
CONNECTED BY EVERSOURCE

BASE CABINET FOR RADIO
EQUIPMENT (53”x26”x26”)

SEPARATE POWER TO
CONTINUE TO STREETLIGHT

CONCRETE FOUNDATION
84’x30’

TYPICAL C.O.B. CONCRETE
FOUNDATION 84’x30’

STANDARD CONCRETE POLE ELEVATION - EXHIBIT X-1F

SCALE IN FEET
STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1F

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STANDARD CONCRETE POLE ELEVATION - EXHIBIT X-1G

Scale in Feet
STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1G

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CONCRETE SIDEWALK
ROAD
SET IN GROUND 4" BELOW GRADE

INSTALL LUMINARE PER C.O.B. STANDARDS

EXISTING POLE TO BE FIELD MODIFIED TO ACCEPT ANTENNA/BASE WHILE MAINTAINING EXISTING LUMINARE HEIGHT

COAX FEED COMMSCOPE LDF4-50A(1/2"

PROPOSED FIBER TO VERIZON MANHOLE VIA EXTERNET CONDUIT
PROPOSED POWER FEED TO STREETLIGHT TO BE CONNECTED BY EVERSOURCE

BASE CABINET FOR RADIO EQUIPMENT (53"x26"x26"

SEPARATE POWER TO CONTINUE TO STREETLIGHT

SET IN GROUND 4" BELOW GRADE

4'-1"

CONCRETE SIDEWALK

TYPICAL C.O.B. CONCRETE FOUNDATION 84"X84"

STANDARD CONCRETE POLE ELEVATION - EXHIBIT X-1H

SCALE IN FEET

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29' EXISTING POLE TO BE REPLACED WITH NEW POLE WITH A MAX HEIGHT OF 34.8'
9. EXTERNET SYSTEMS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT WILL BE INSTALLED AT THE SAME HEIGHT AS EXISTING.
11. LUMINARIE ARM WILL BE INSTALLED AT THE SAME HEIGHT AS EXISTING. ANY CHANGES TO EXISTING HEIGHT REQUIRES PRIOR APPROVAL BY THE CITY OF BOSTON'S STREET LIGHT DEPARTMENT.
12. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
13. ORNAMENTAL DECORATIVE FIXTURES WILL BE IDENTICAL TO THE EXISTING FIXTURE UNLESS THE EXISTING FEATURE IS A METAL HALIDE OR HIGH PRESSURE SODIUM FIXTURE. IN THESE SCENARIOS, THE FIXTURE WILL BE UPGRADED TO AN APPROVED LED FIXTURE.
14. STANDARD CONCRETE POLES AND POLE HEIGHTS SHALL BE APPROVED FOR THE FOLLOWING LUMINARY FIXTURES: AERIETA, COBRA, DOUBLE COBRA, SHOEBOX, CURVED, DOUBLE CURVED, STRAIGHT, AND DOUBLE STRAIGHT.

PIKE TELECOM
21 Oxford Rd
Mansfield, MA 02048
www.piketelecom.org
1-508-337-7600

EXTERNET SYSTEMS
3030 WARRENVILLE RD
Lisle, IL 60532
(630) 505-3800
WWW.EXTERNETSYSTEMS.COM

SUBMITTALS

REV  DATE  DESCRIPTION  INITALS
1  1/8/20  FOR SUBMITTAL  LS

PV-1H
STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-1H

SUBMITTALS

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3030 WARRENVILLE RD
Lisle, IL 60532
(630) 505-3800
WWW.EXTENETSYSTEMS.COM

21 Oxford Rd
Mansfield, MA 02048
www.piketelecom.org
1-508-337-7600
NEW TECHNOLOGY NOTE:
The maximum antenna system shown may be installed in conjunction with the previously approved exhibit X antenna or as a standalone configuration.

GENERAL NOTES:
1. All distances, dimensions, locations, equipment designations and specifications are approximate.
2. All materials will resemble currently existing materials and where needed any RF friendly material will be painted to match. Materials & light fixture to be synonymous with surrounding lights at that location.
3. It is assumed that all proposed utilities will be routed below grade to the proposed installation.
4. The purpose of the design shown is to show a conceptual design for the replacement/modifications of existing light pole. Therefore, these designs are inherently approximate in nature and should not be used as an exact, scaled engineering drawing.
5. Pole replacement heights will vary based on required antenna heights requested by Extenet Systems.
6. Equipment closure to be no larger than (53"Hx26"Wx26"D).
7. Antenna to be no larger than 16"Øx40"H.
8. 14' existing pole to be replaced with new pole with a max height of 16.8'
   19' existing pole to be replaced with new pole with a max height of 22.8'
   24' existing pole to be replaced with new pole with a max height of 28.8'
   29' existing pole to be replaced with new pole with a max height of 34.8'
9. Extenet Systems will place small placard on pole identifying ownership/contact information.
10. LED light will be installed at the same height as existing.
11. Luminarie arm will be installed at the same height as existing. Any changes to existing height requires prior approval by the City of Boston’s Street Light Department.
12. Proposed lighting will conform to the city of Boston’s lighting standards.
13. Ornamental decorative fixtures will be identical to the existing fixture unless the existing feature is a metal halide or high pressure sodium fixture. In these scenarios, the fixture will be upgraded to an approved LED fixture.
14. Standard concrete poles and pole heights shall be approved for the following luminarie fixtures: Aerieta, Cobra, double Cobra, shoebox, curved, double curved, straight, and double straight.

STANDARD CONCRETE POLE ELEVATION - EXHIBIT X-1I

SCALE IN FEET

3030 Warrenville Rd
Lisle, IL 60532
(630) 505-3800
WWW.EXTENETSYSTEMS.COM

21 Oxford Rd
Mansfield, MA 02048
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1-508-337-7600

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STANDARD CONCRETE LIGHT POLE
PROPOSED PHOTOSIMULATION - EXHIBIT X-11