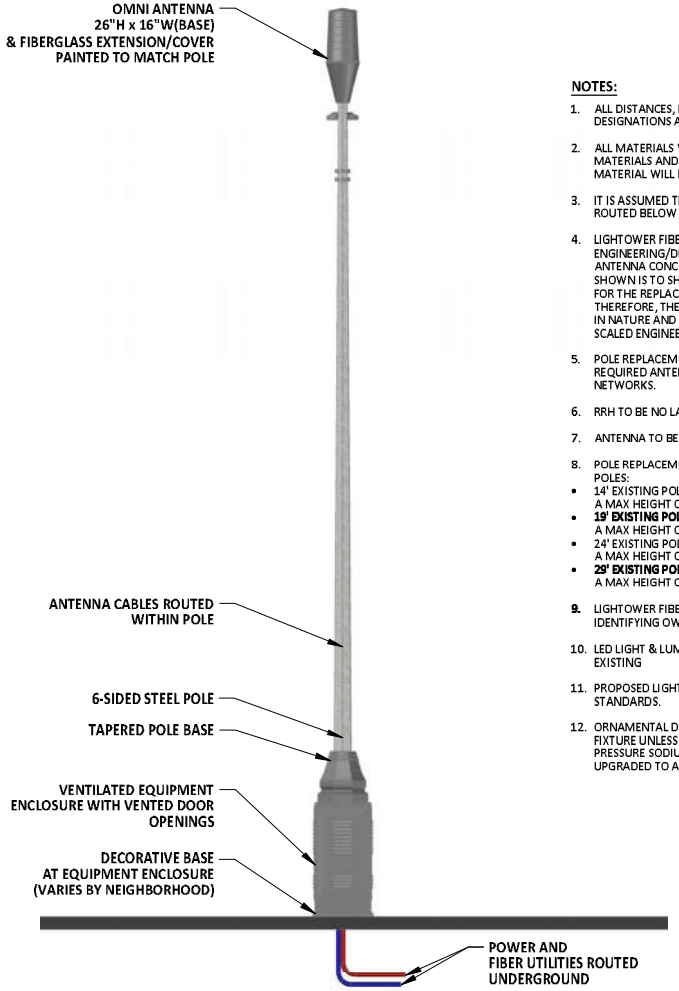
## EXHIBIT X-1

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-1 Standard Concrete Light Pole RRH Concealment** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Standard concrete light pole (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and will be painted and designed to match exterior pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *14' existing pole to be replaced with new pole and a max height of 16.8'*<br>• *19' existing pole to be replaced with new pole with a max height of 22.8'*<br>• *24' existing pole to be replaced with new pole with a max height of 28.8'*<br>• *29' existing pole to be replaced with new pole with a max height of 34.8'* |
| **Concealment** | *Antenna contained within enclosure painted and tapered to match pole. Cables run inside pole. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and 4'8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |

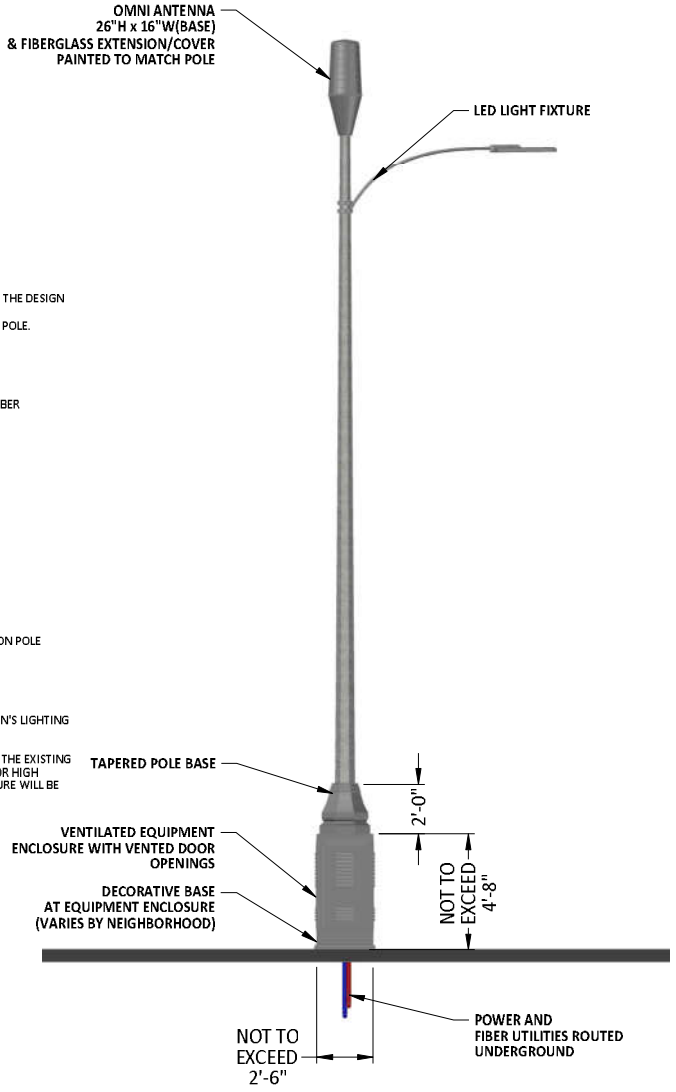
| | |
|---|---|
| **Comments** | |

# PROPOSED LED STREETLIGHT SOLUTION




**NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS AND EQUIPMENT DESIGNATIONS AND SPECIFICATIONS ARE APPROXIMATE.
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




SCALE IN FEET

5 0 5

① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW

SCALE 1"=6'

NOTE:
CABLES & EXISTING POLE EQUIPMENT
NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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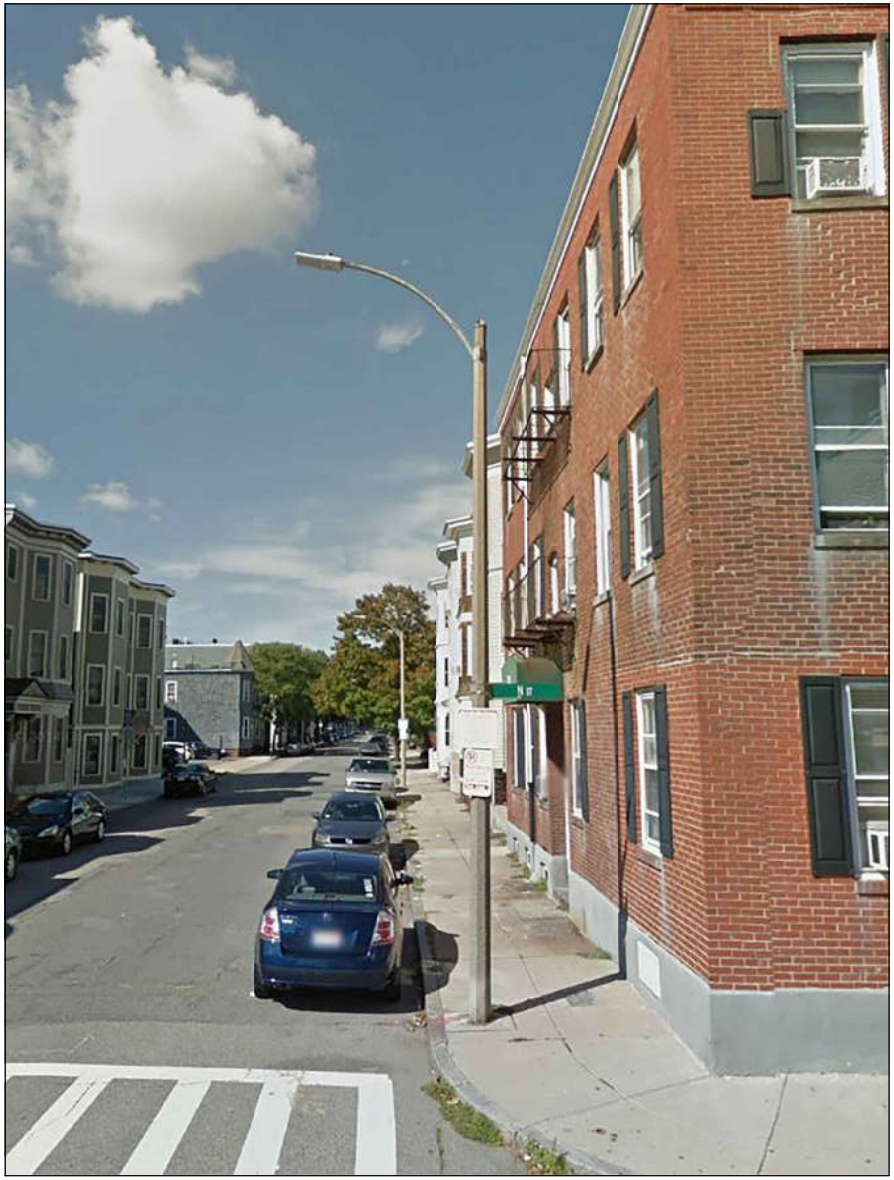
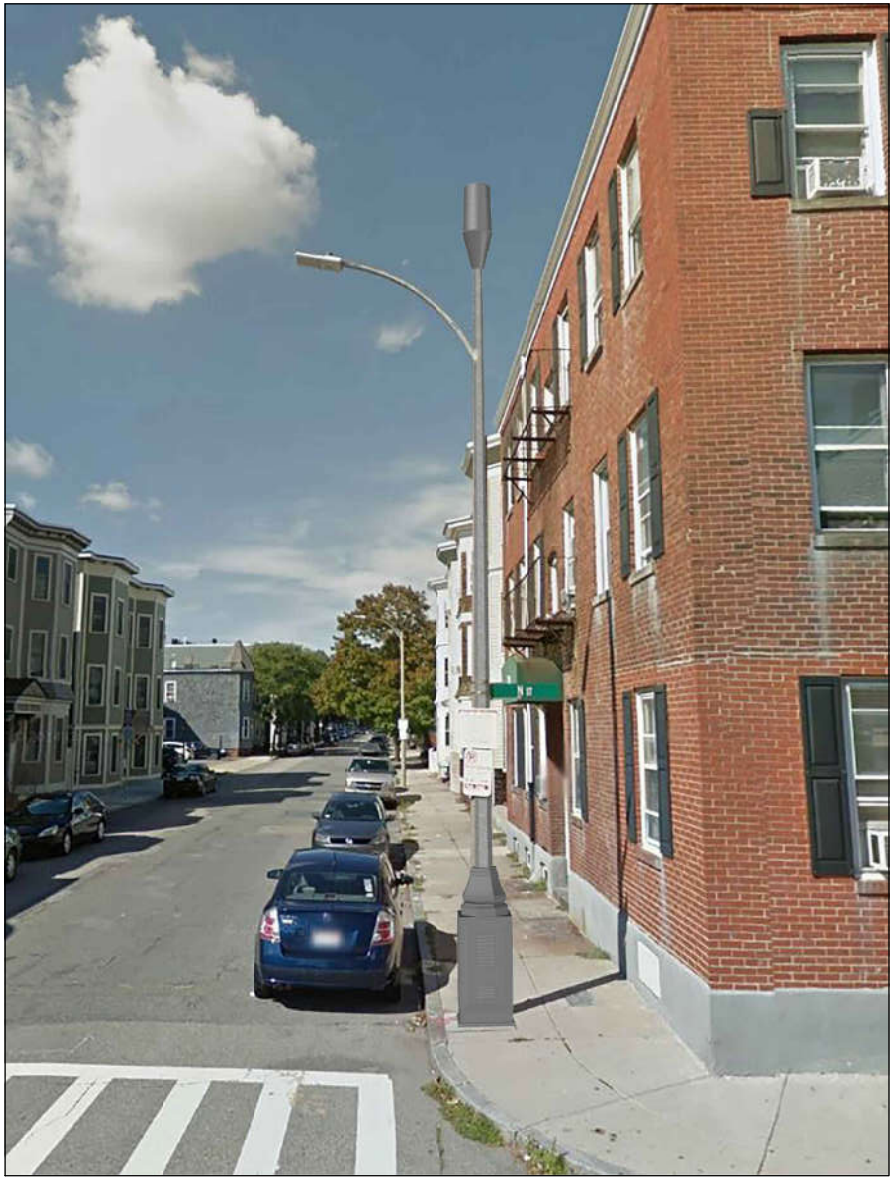
DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/27/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

1



EXISTING PHOTOGRAPHIC VIEW



PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

REVISIONS

| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/27/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

2

## EXHIBIT X-2

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-2 Aeriata Light Pole RRH Concealment** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Aeriata Light Pole RRH Concealment (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and will be painted and designed to match exterior pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *14' existing pole to be replaced with new pole and a max height of 16.8'*<br>• *19' existing pole to be replaced with new pole with a max height of 22.8'*<br>• *24' existing pole to be replaced with new pole with a max height of 28.8'*<br>• *29' existing pole to be replaced with new pole with a max height of 34.8'* |
| **Concealment** | *Antenna contained within enclosure painted and tapered to match pole. Cables run inside pole. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and 4'8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |

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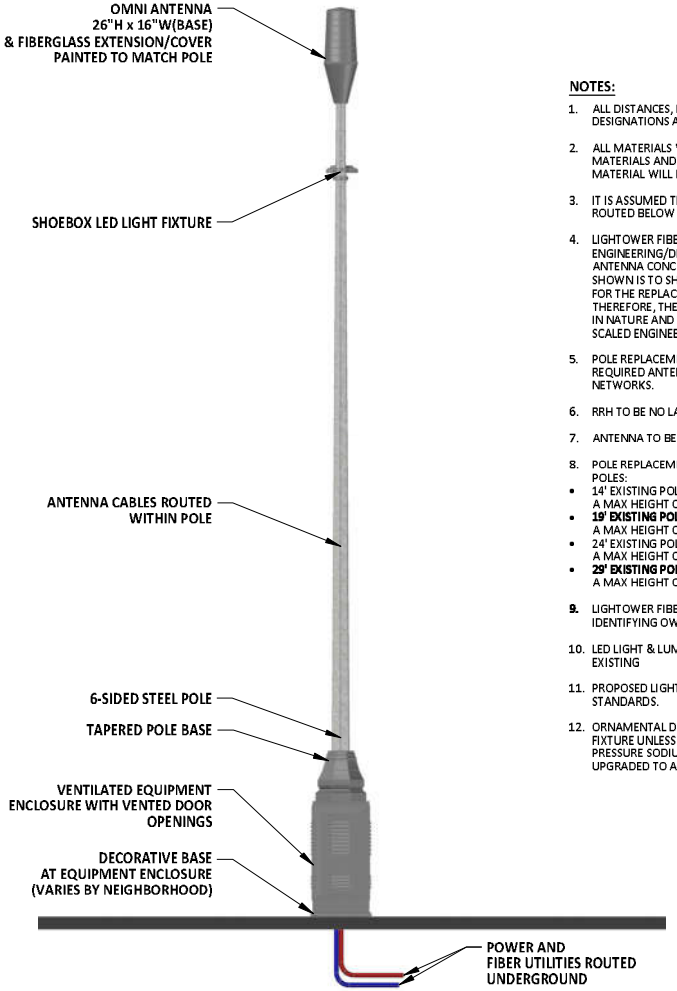
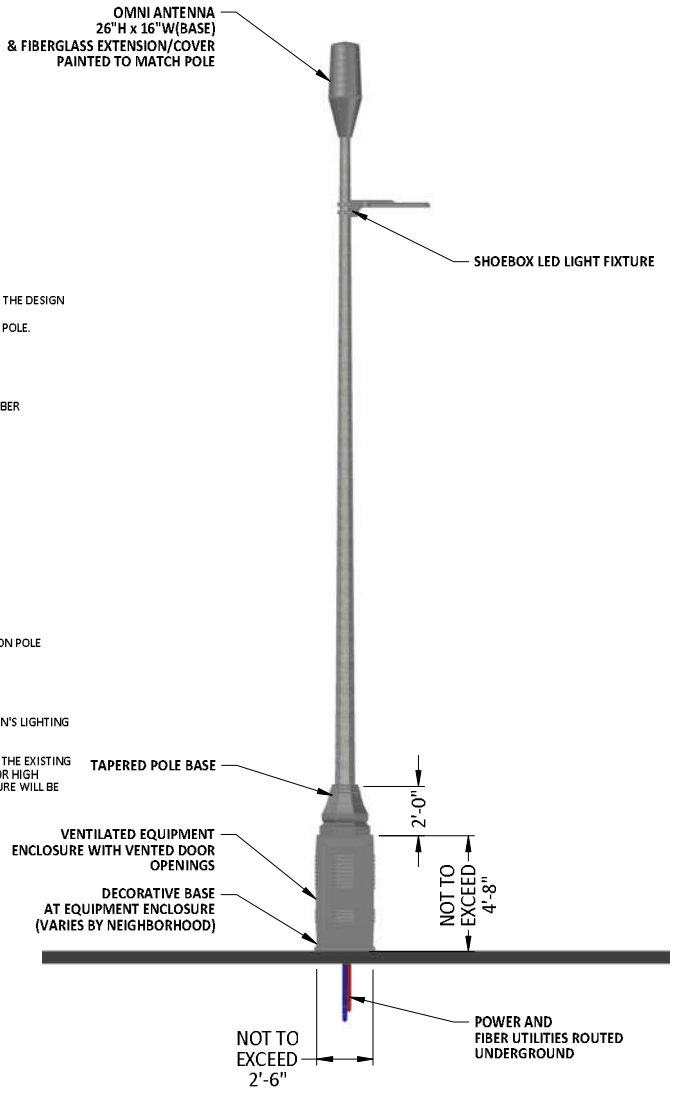
|---|---|
| **Comments** | |

# PROPOSED SINGLE STUB LED STREETLIGHT SOLUTION




**NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS AND EQUIPMENT DESIGNATIONS AND SPECIFICATIONS ARE APPROXIMATE.
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




SCALE IN FEET

5 0 5

① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW

SCALE 1"=6'

NOTE:
CABLES & EXISTING POLE EQUIPMENT
NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/21/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

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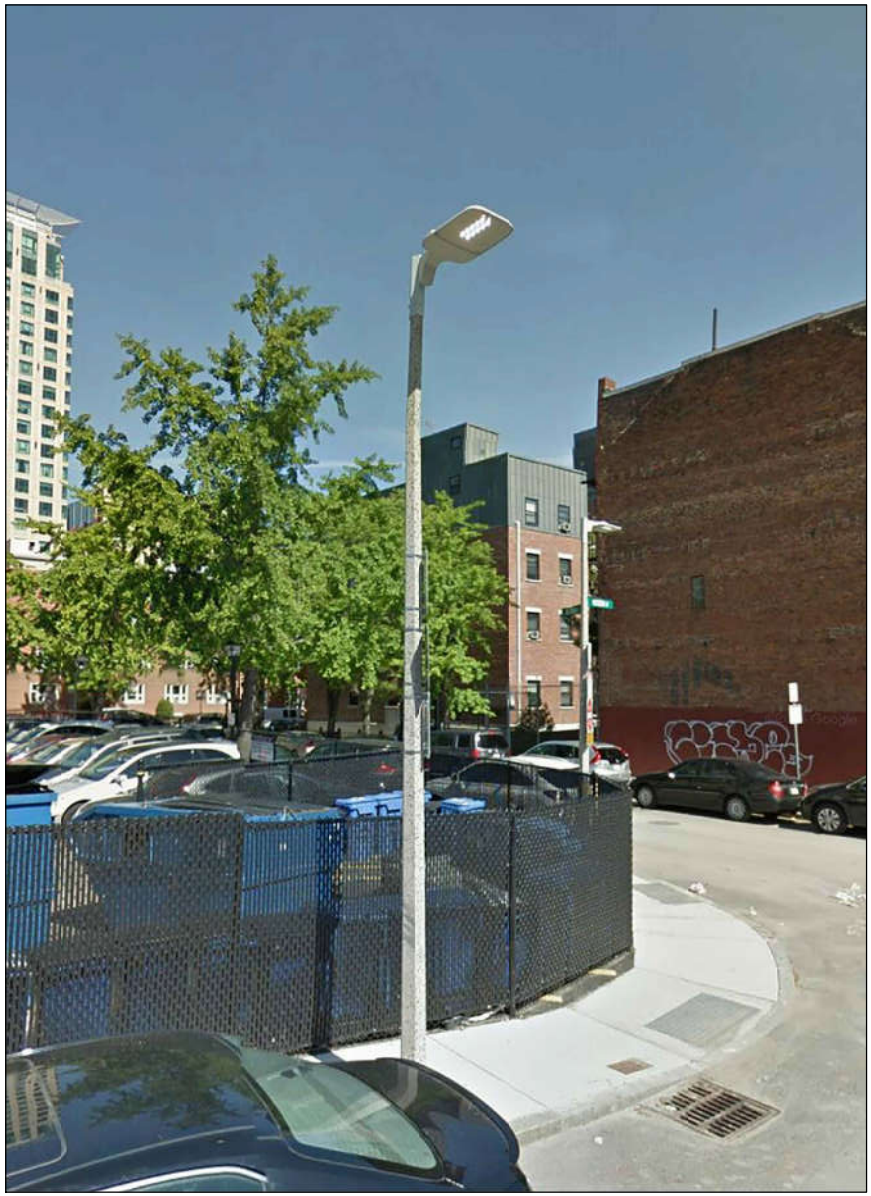
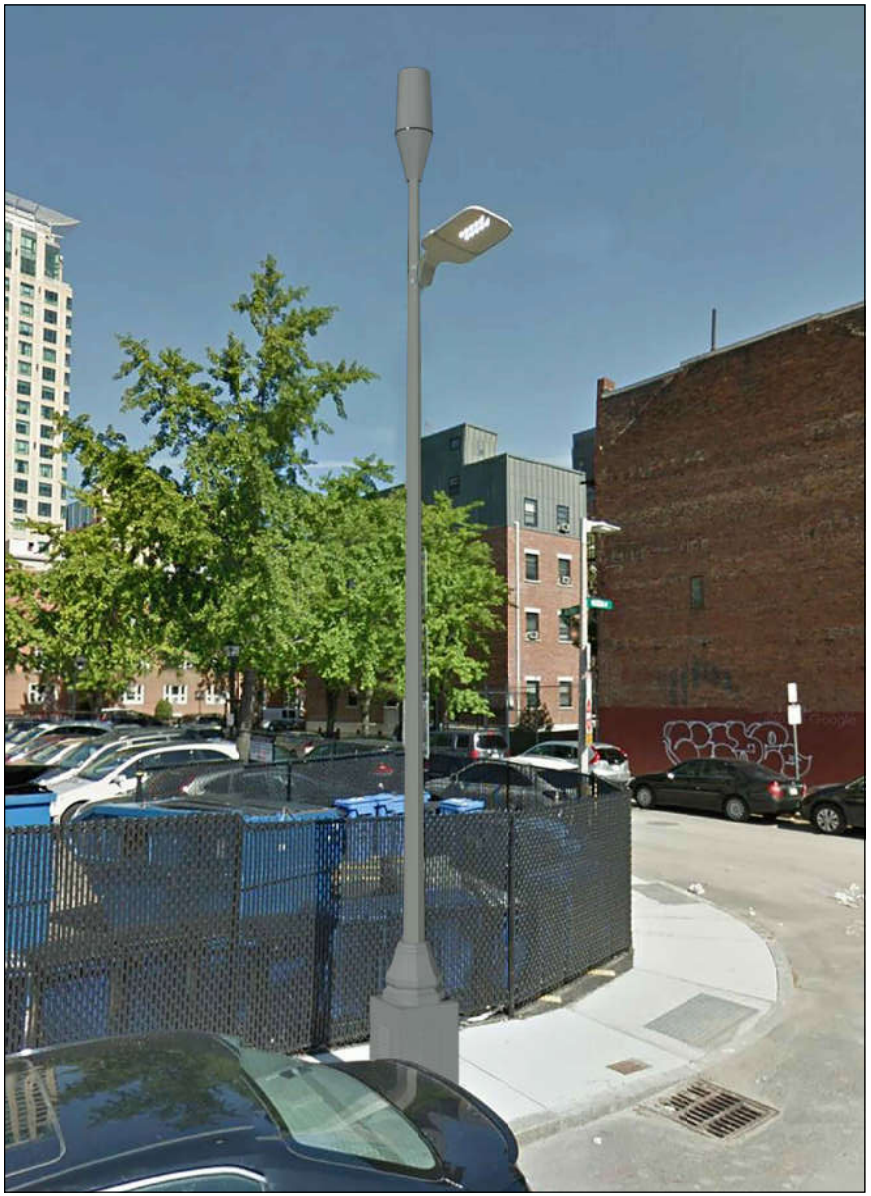


EXISTING PHOTOGRAPHIC VIEW



PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/21/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

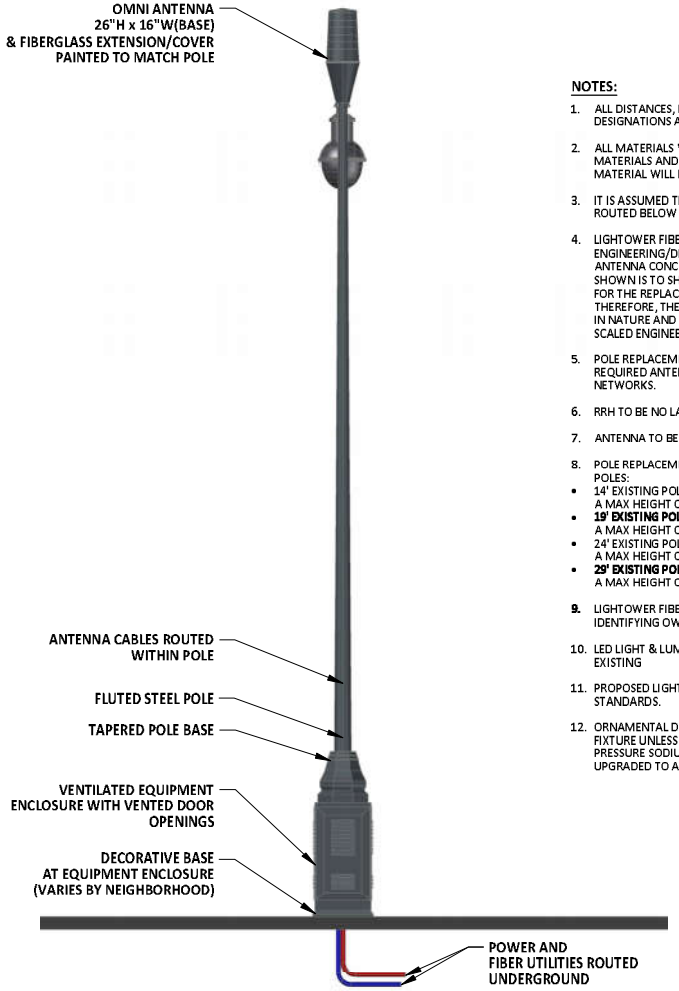
2

## EXHIBIT X-3

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-3 Pendant Light Pole RRH Concealment** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Pendant Light Pole RRH Concealment (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and will be painted and designed to match exterior pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *21' existing pole to be replaced with new pole and a max height of 25.2'*<br>• *25' existing pole to be replaced with new pole with a max height of 30'* |
| **Concealment** | *Antenna contained within enclosure painted and tapered to match pole. Cables run inside pole. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and 4'8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |
| **Comments** | |

# PROPOSED SPRING CITY STREETLIGHT SOLUTION




**NOTES:**

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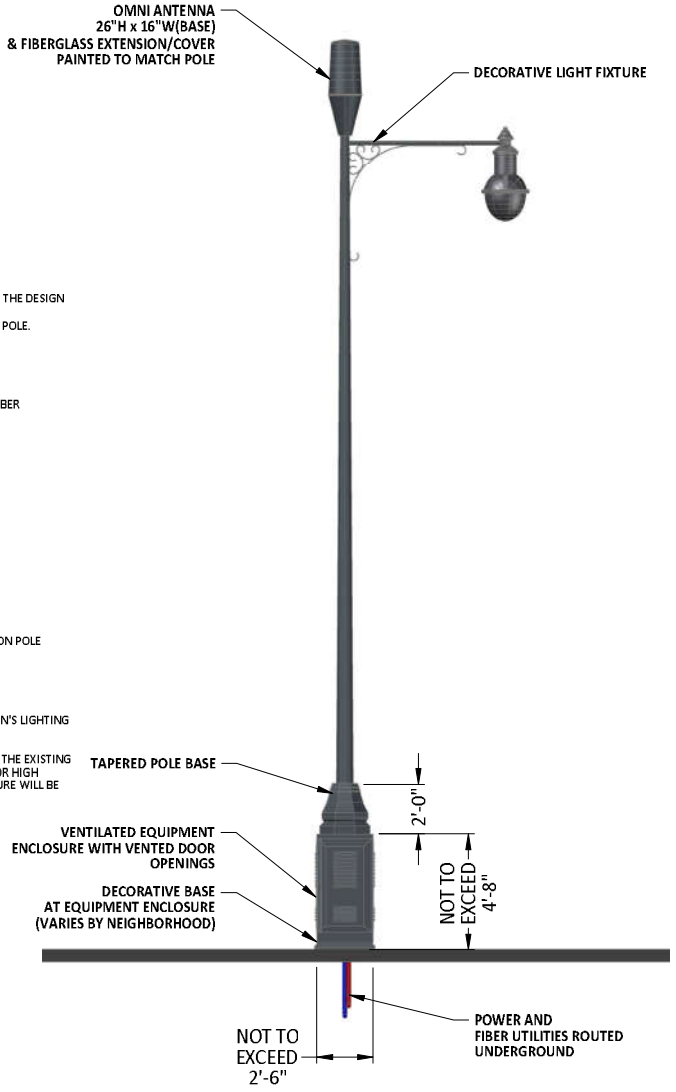
5. POLE REPLACEMENT HEIGHTS WILL VARY BASED ON REQUIRED ANTENNA HEIGHTS REQUESTED BY LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 14' EXISTING POLE TO BE REPLACED WITH NEW POLE 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




SCALE IN FEET

5 0 5

① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW

SCALE 1"=6'

NOTE:
CABLES & EXISTING POLE EQUIPMENT
NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/28/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

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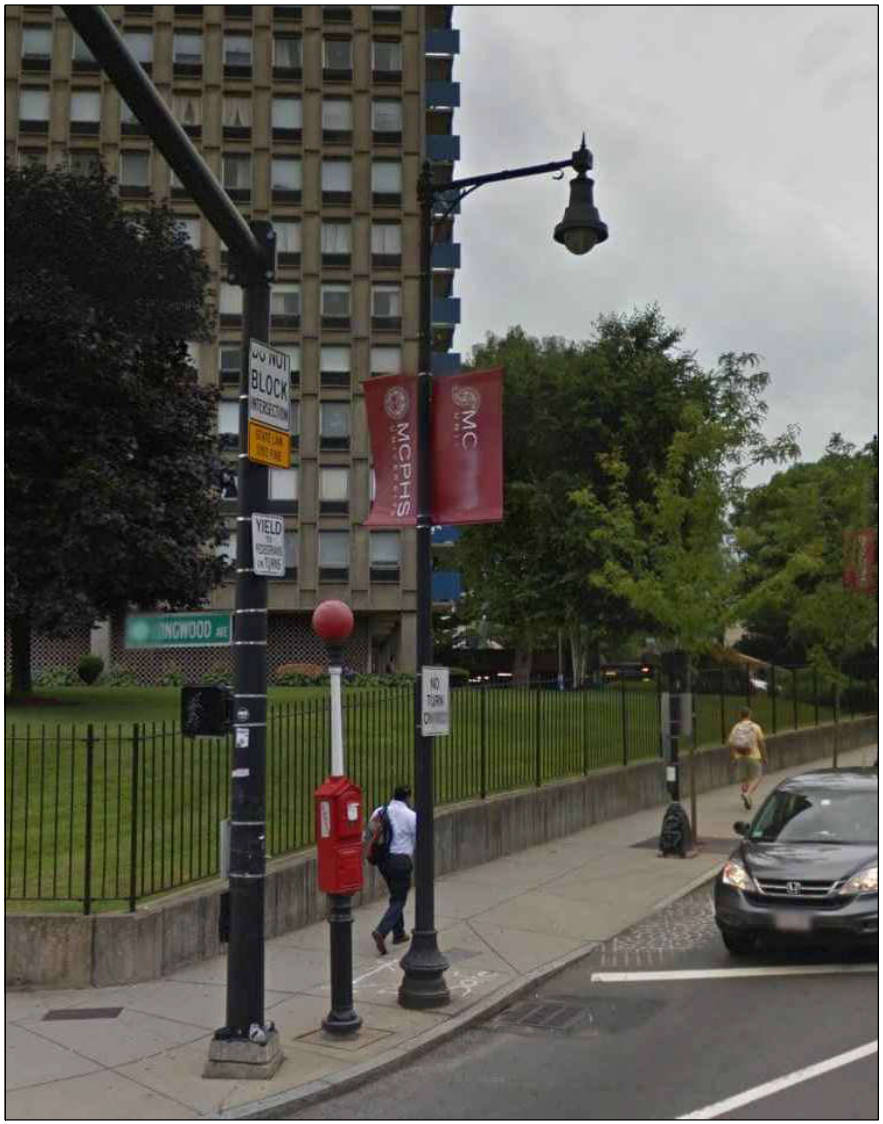
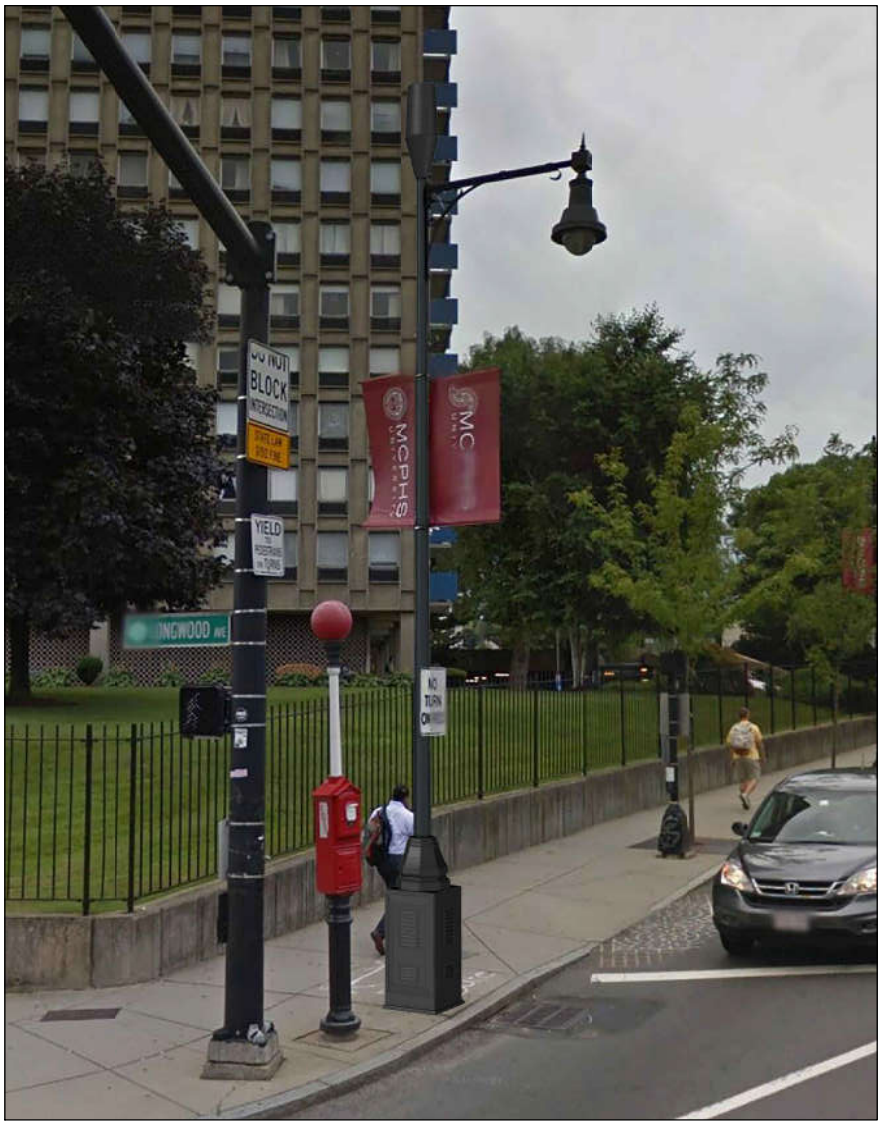



EXISTING PHOTOGRAPHIC VIEW




PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/28/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

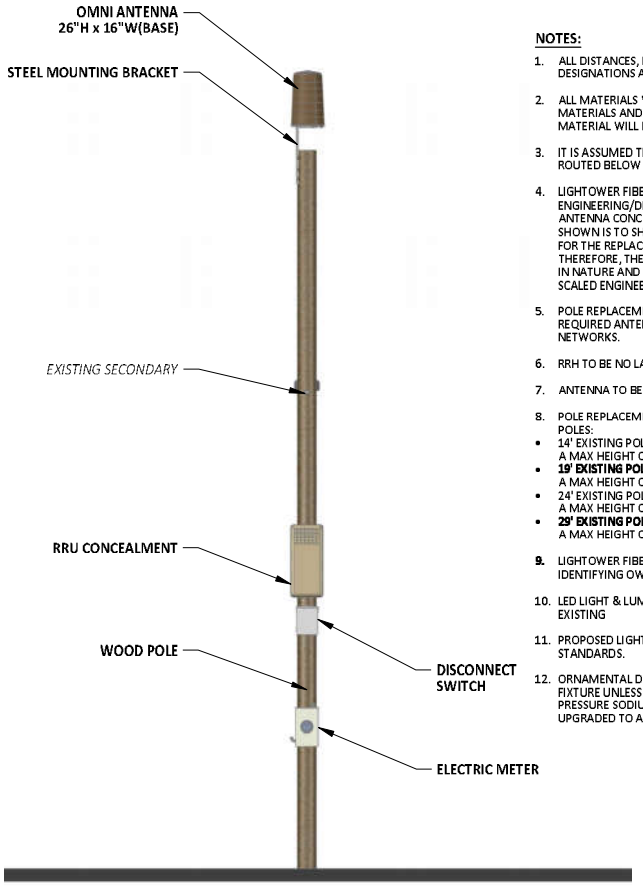
2

## EXHIBIT X-4

## SCHEDULE OF APPROVED WIRELESS FACILITIES

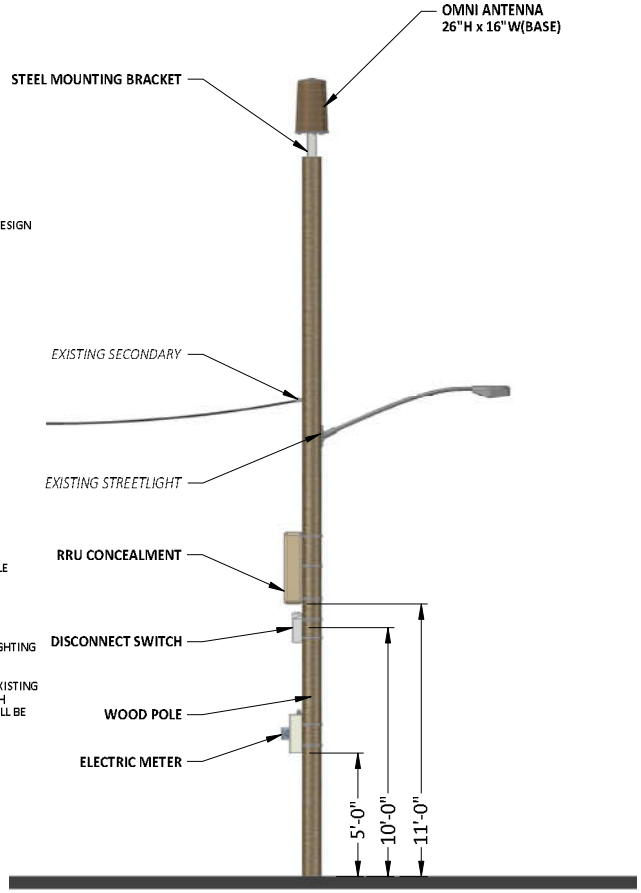
| | |
|---|---|
| **Facility Number** | **X-4 Wood Utility Pole Antenna Top Mount** |
| **Attachment Types** *(check all that apply and provide detail below)* | __ Replacement City Pole (streetlight)<br>__ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>_X_ Attach to Non-City Pole |
| **Attachment Type Detail** | Wood Utility Pole Antenna Top Mount *(existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole. Remote radiohead, power and fiber equipment mounted to side of pole and connected to Fiber Demarc on pole.* |
| **Concealment** | *Remote radiohead, power and fiber equipment mounted to side of pole and connected to Fiber Demarc on pole.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |
| **Comments** | |

# PROPOSED (POLE TOP) WOOD POLE SOLUTION




**NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS AND EQUIPMENT DESIGNATIONS AND SPECIFICATIONS ARE APPROXIMATE.
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

SCALE IN FEET
5 0 5

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW
SCALE 1"=6'
NOTE:
CABLES & EXISTING POLE EQUIPMENT NOT SHOWN FOR CLARITY

LOCATION:
BROOKLINE, MA

NOTES:

PREPARED FOR:
lightower fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/28/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

1

EXISTING PHOTOGRAPHIC VIEW

PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BROOKLINE, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

| REVISIONS | | |
|---|---|---|
| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/27/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

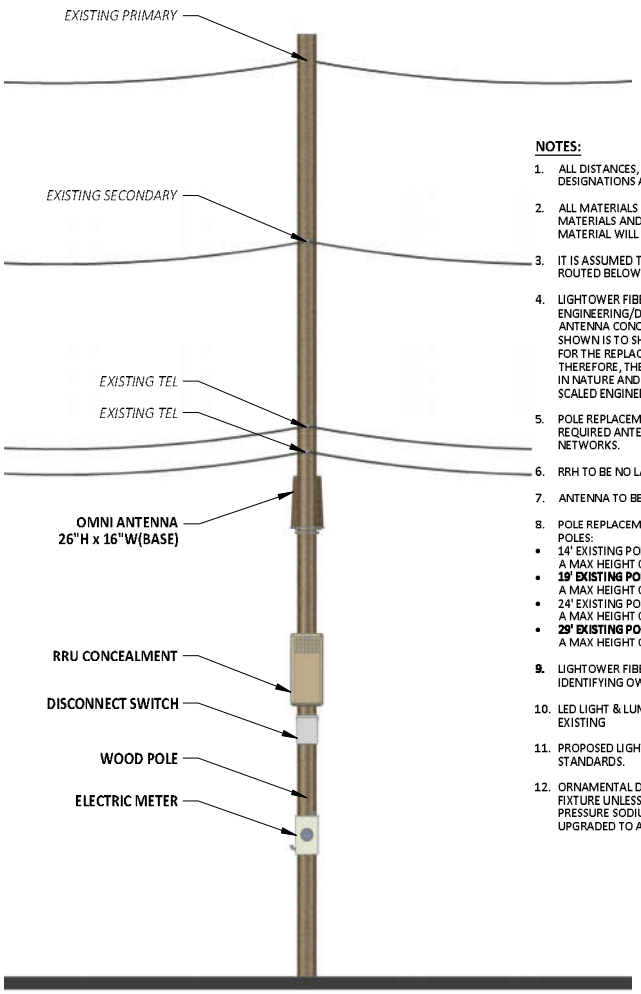
2

## EXHIBIT X-5

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-5 Wood Utility Pole Antenna Side Mount** |
| **Attachment Types** *(check all that apply and provide detail below)* | __ Replacement City Pole (streetlight)<br>__ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>_X_ Attach to Non-City Pole |
| **Attachment Type Detail** | Wood Utility Pole Antenna Side Mount *(existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole. Antenna placement on pole to be determined by utility requirements. Remote radiohead, power and fiber equipment mounted to side of pole and connected to Fiber Demarc on pole.* |
| **Concealment** | *Remote radiohead, power and fiber equipment mounted to side of pole and connected to Fiber Demarc on pole.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |
| **Comments** | |

# PROPOSED (COMM ZONE) WOOD POLE SOLUTION




**NOTES:**

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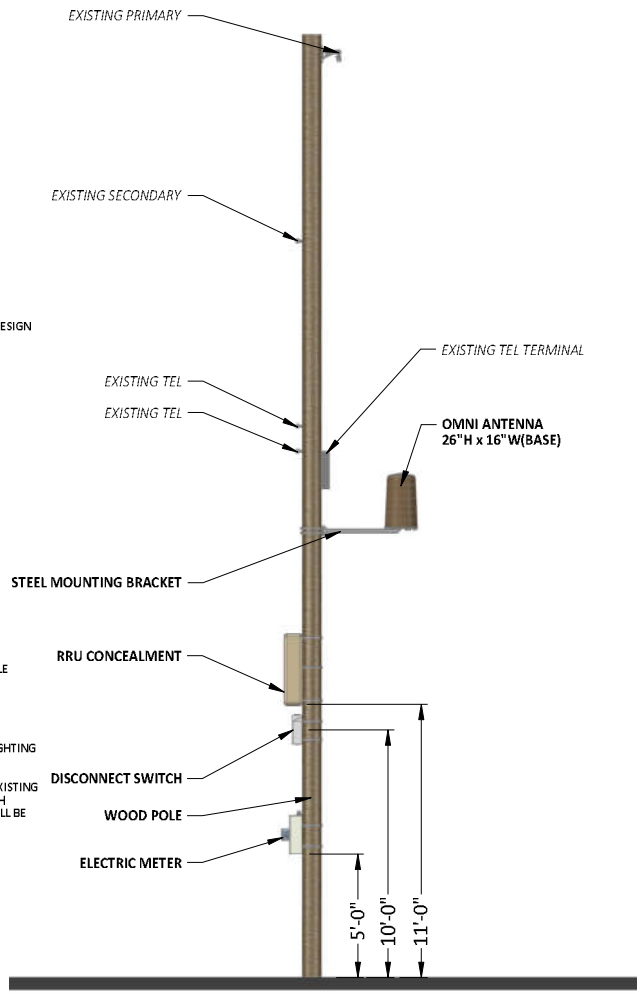
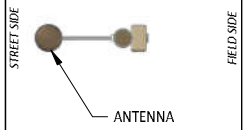
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

SCALE IN FEET
5 0 5

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD




PROPOSED TOP VIEW
SCALE 1"=6"
NOTE:
CABLES & EXISTING POLE EQUIPMENT NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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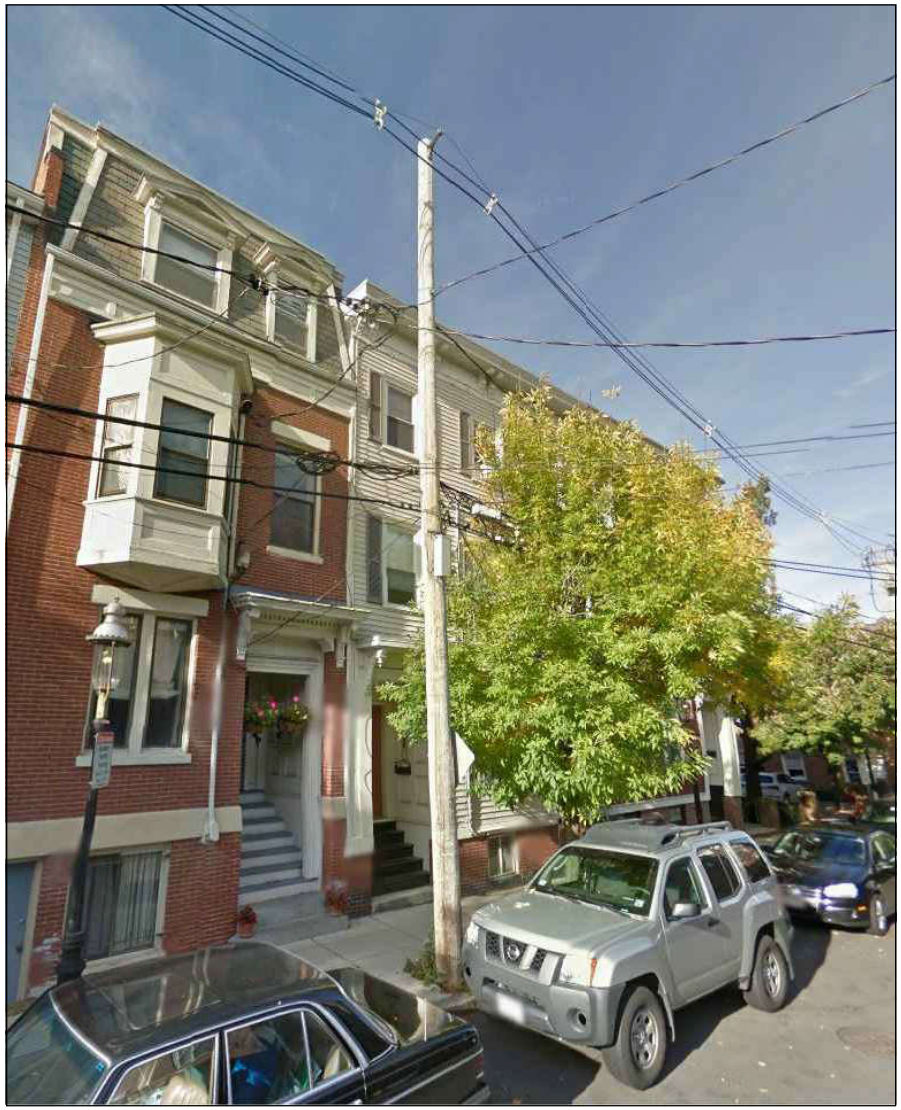
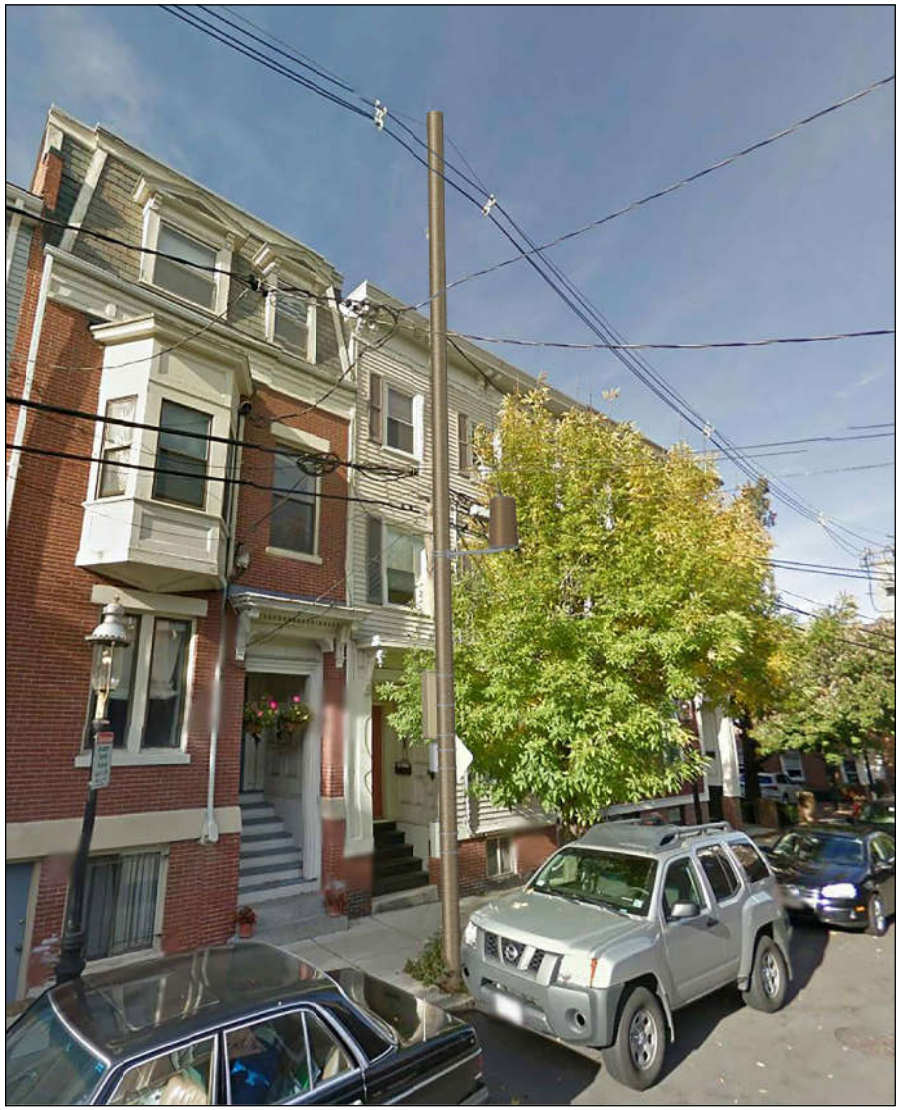
DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/27/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

1



EXISTING PHOTOGRAPHIC VIEW



PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

REVISIONS

| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/27/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

2

## EXHIBIT X-6

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-6 Bishop's Crook Light Pole RRH Concealment** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Bishop's Crook Light Pole (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and will be painted and designed to match exterior pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *14' existing pole to be replaced with new pole and a max height of 16.8'*<br>• *19' existing pole to be replaced with new pole with a max height of 22.8'*<br>• *24' existing pole to be replaced with new pole with a max height of 28.8'*<br>• *29' existing pole to be replaced with new pole with a max height of 34.8'* |
| **Concealment** | *Antenna contained within enclosure painted and tapered to match pole. Cables run inside pole. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and 4'8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |

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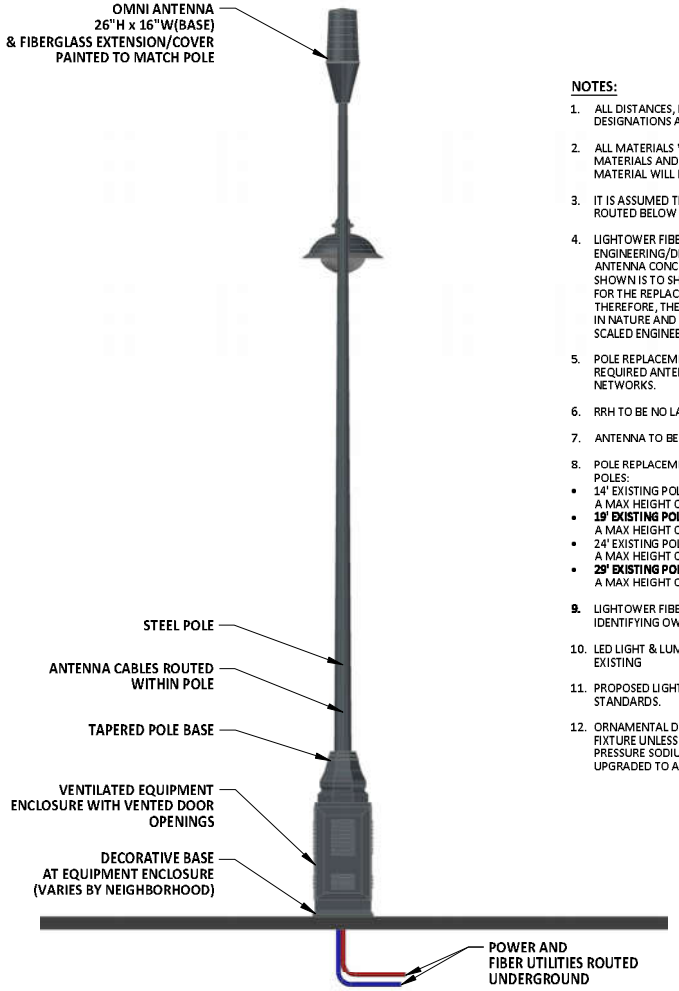
|---|---|
| **Comments** | |

# PROPOSED BISHOPS CROOK STREETLIGHT SOLUTION




**NOTES:**

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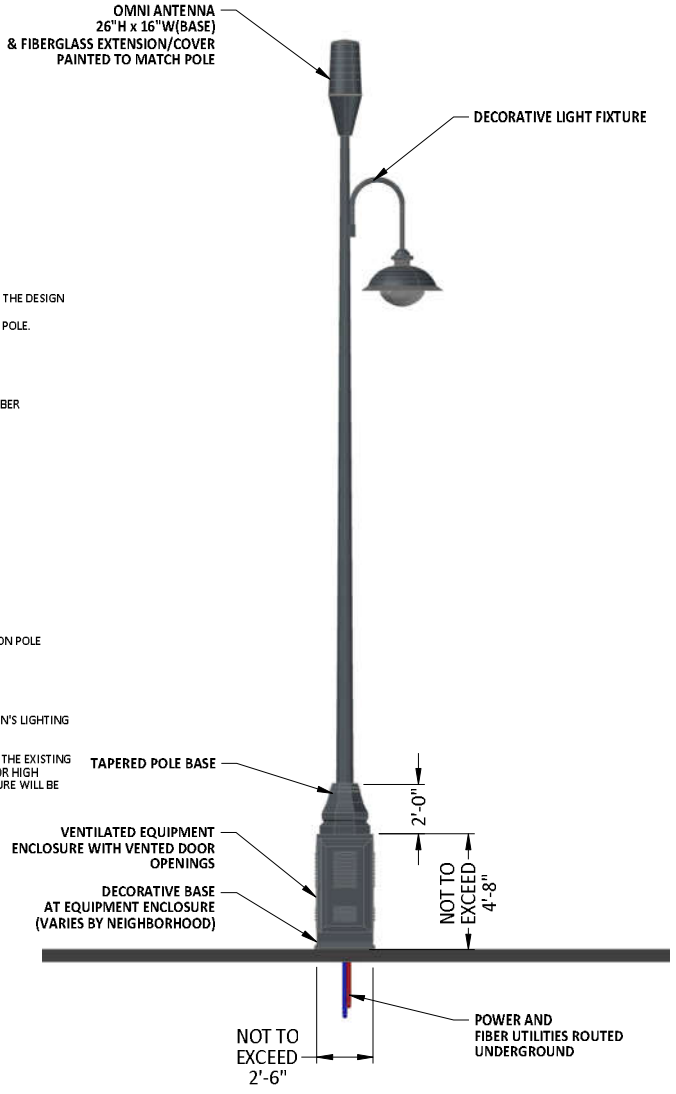
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




SCALE IN FEET

5 0 5

① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW

SCALE 1"=6'

NOTE:
CABLES & EXISTING POLE EQUIPMENT
NOT SHOWN FOR CLARITY

LOCATION:
BROOKLINE, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/28/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

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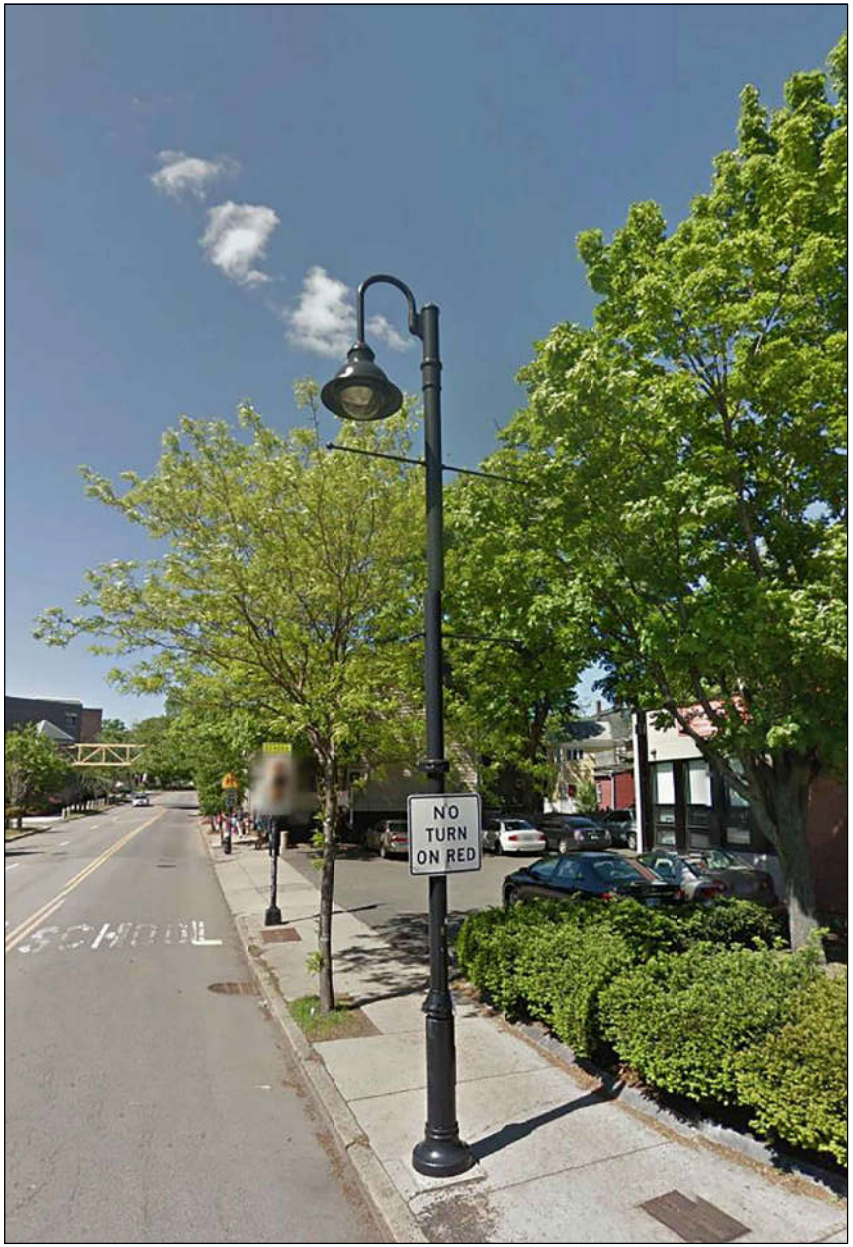
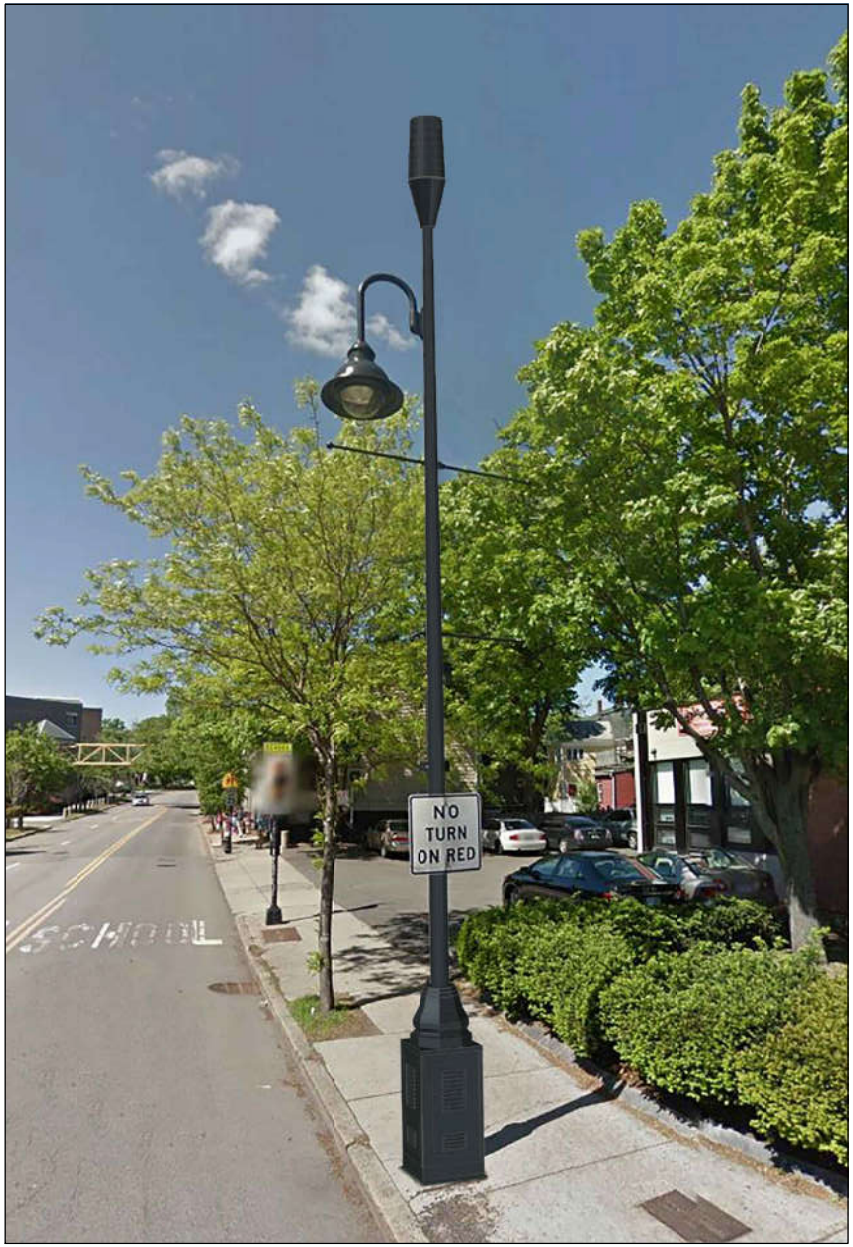



EXISTING PHOTOGRAPHIC VIEW




PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BROOKLINE, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/28/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

2

## EXHIBIT X-10

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-10 Double Curved Light Pole RRH Concealment** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Double Curved Light Pole RRH Concealment (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and will be painted and designed to match exterior pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *14' existing pole to be replaced with new pole and a max height of 16.8'*<br>• *19' existing pole to be replaced with new pole with a max height of 22.8'*<br>• *24' existing pole to be replaced with new pole with a max height of 28.8'*<br>• *29' existing pole to be replaced with new pole with a max height of 34.8'* |
| **Concealment** | *Antenna contained within enclosure painted and tapered to match pole. Cables run inside pole. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and 4'8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |

| | |
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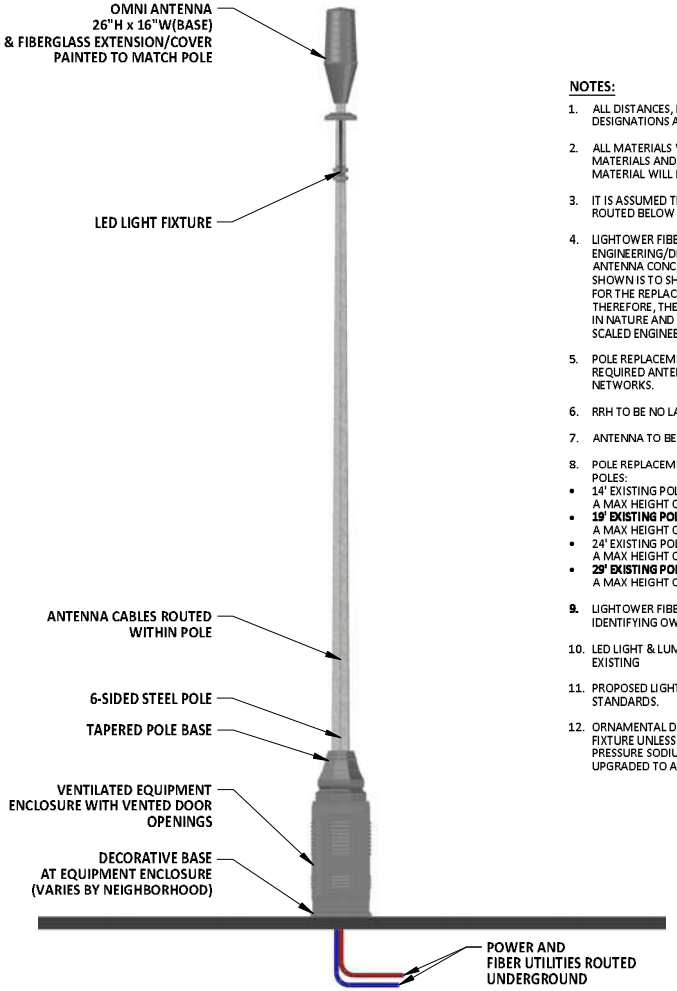
| **Comments** | |

# PROPOSED DOUBLE CURVED LED STREETLIGHT SOLUTION




**NOTES:**

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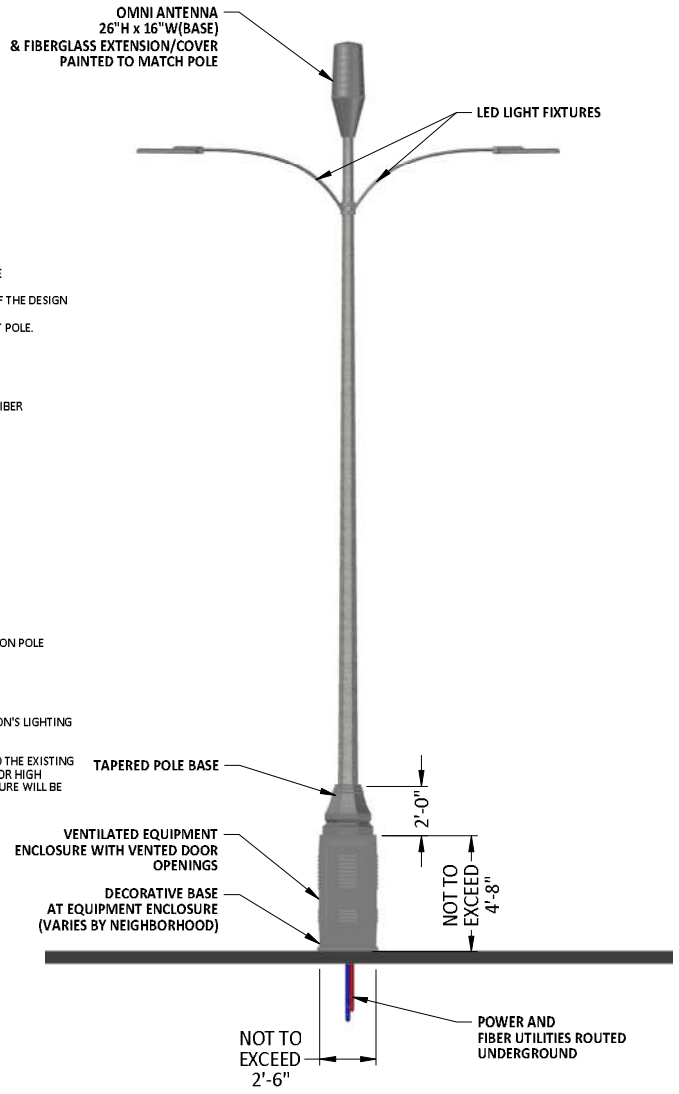
5. POLE REPLACEMENT HEIGHTS WILL VARY BASED ON REQUIRED ANTENNA HEIGHTS REQUESTED BY LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 14' EXISTING POLE TO BE REPLACED WITH NEW POLE 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




SCALE IN FEET

5 0 5

① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW

SCALE 1"=6'

NOTE:
CABLES & EXISTING POLE EQUIPMENT
NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
|---|---|---|
| REV. | DESCRIPTION | DATE |
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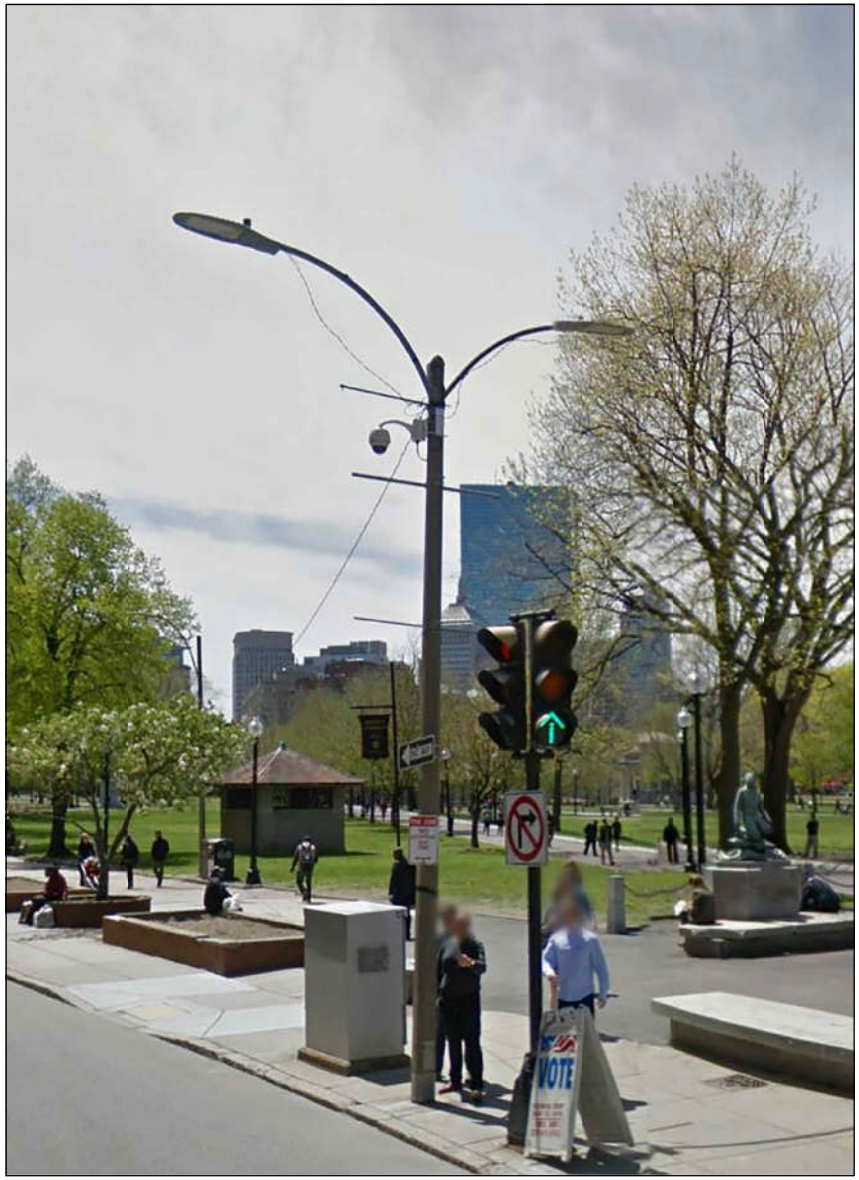
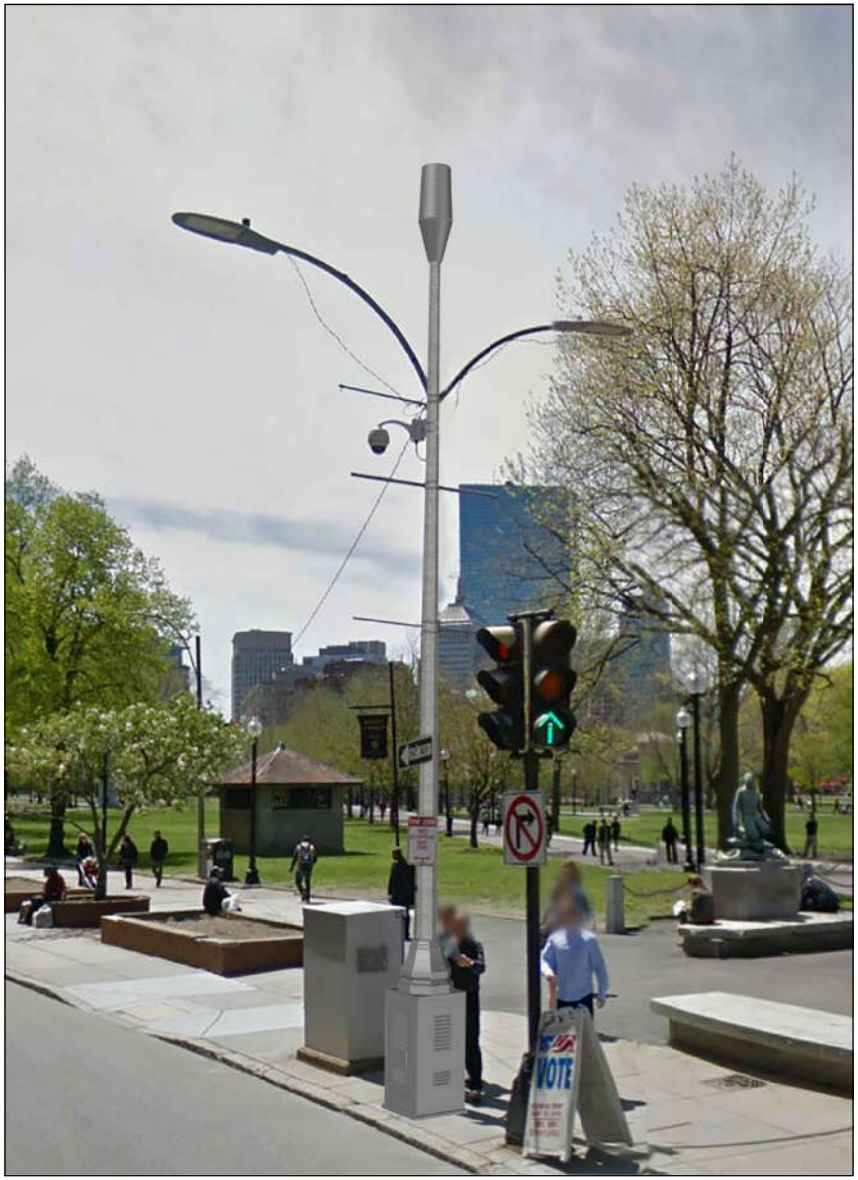
DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/21/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

1




EXISTING PHOTOGRAPHIC VIEW




PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

| REVISIONS | | |
|---|---|---|
| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/21/16
NODE NAME: SGMA XXXX
SHEET #: 2 OF 2

2

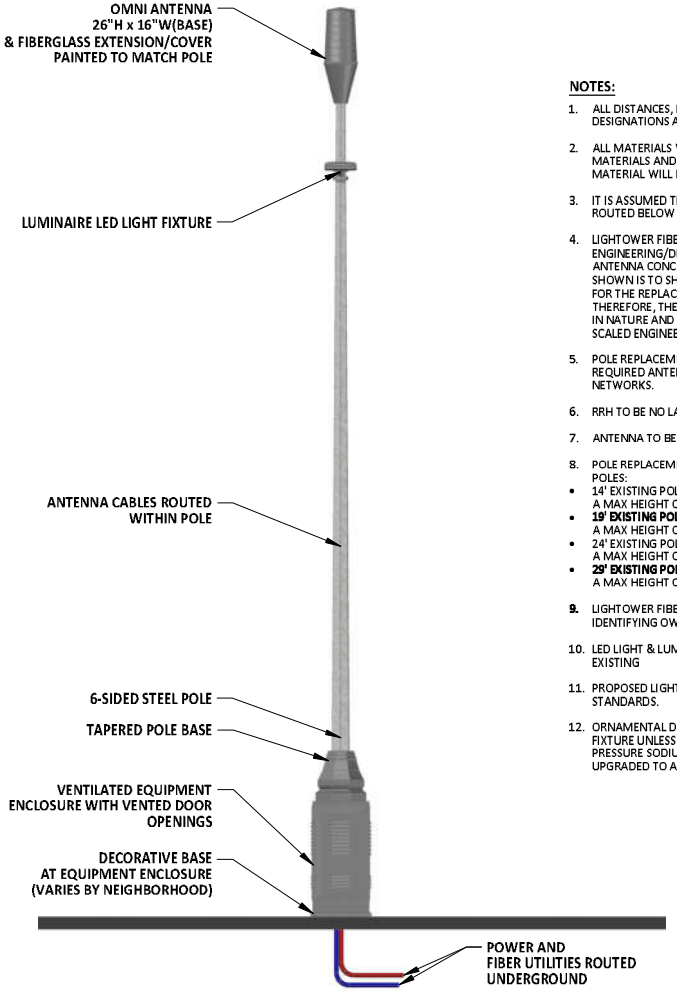
## EXHIBIT X-11

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-11 Double Straight Light Pole RRH Concealment** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Double Straight Light Pole RRH Concealment (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and will be painted and designed to match exterior pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *14' existing pole to be replaced with new pole and a max height of 16.8'*<br>• *19' existing pole to be replaced with new pole with a max height of 22.8'*<br>• *24' existing pole to be replaced with new pole with a max height of 28.8'*<br>• *29' existing pole to be replaced with new pole with a max height of 34.8'* |
| **Concealment** | *Antenna contained within enclosure painted and tapered to match pole. Cables run inside pole. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and 4'8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |

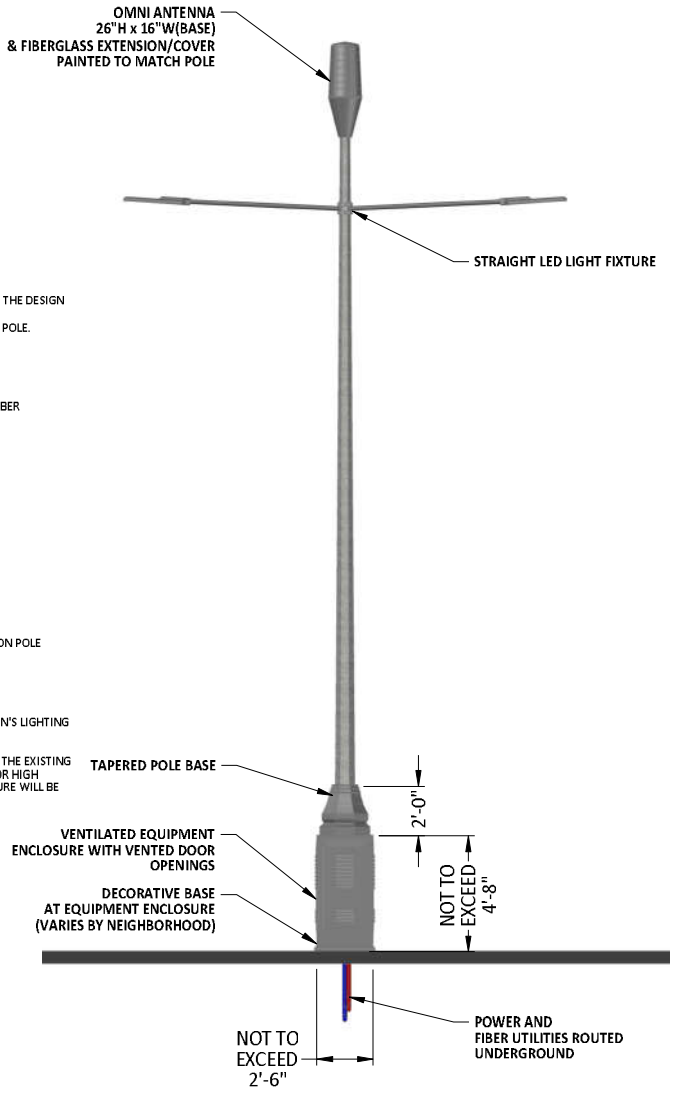
| | |
|---|---|
| **Comments** | |

# PROPOSED DOUBLE STRAIGHT LED STREETLIGHT SOLUTION




**NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS AND EQUIPMENT DESIGNATIONS AND SPECIFICATIONS ARE APPROXIMATE.
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




SCALE IN FEET

5 0 5

① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW

SCALE 1"=6'

NOTE:
CABLES & EXISTING POLE EQUIPMENT
NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
|---|---|---|
| REV. | DESCRIPTION | DATE |
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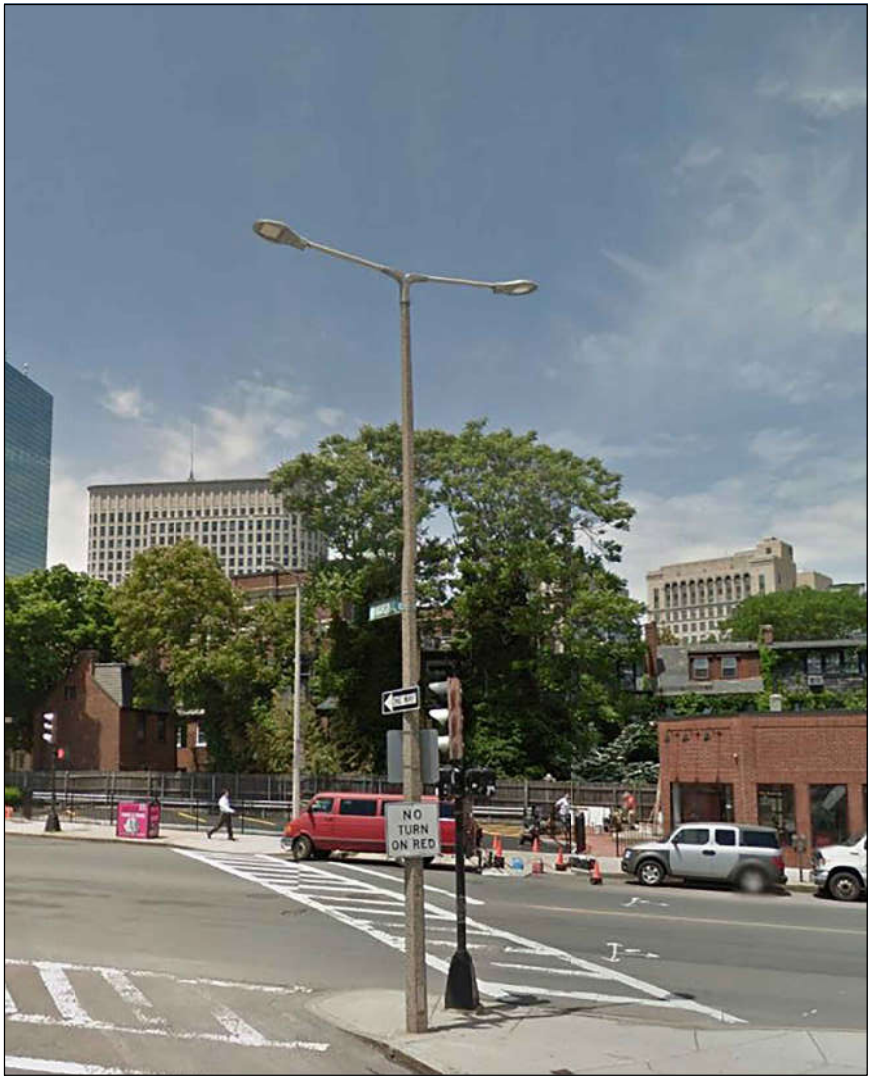
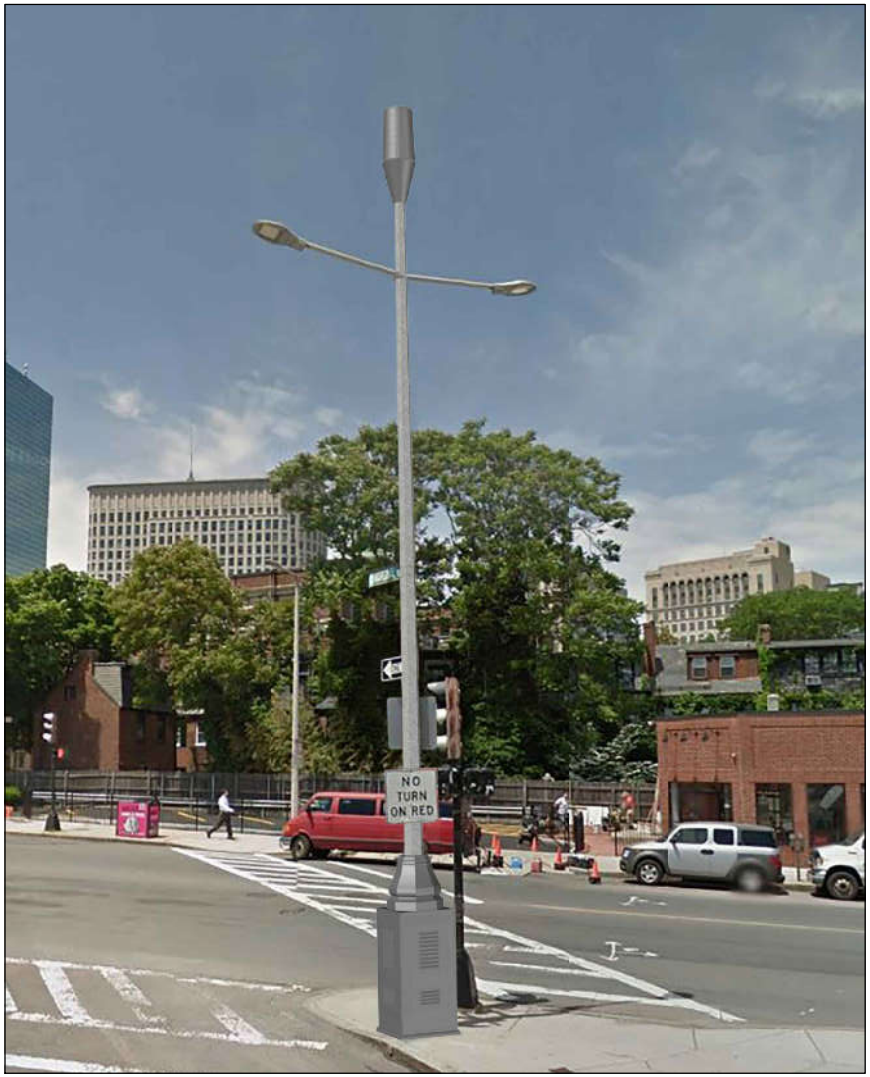
DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/21/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

1




EXISTING PHOTOGRAPHIC VIEW




PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/21/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

2

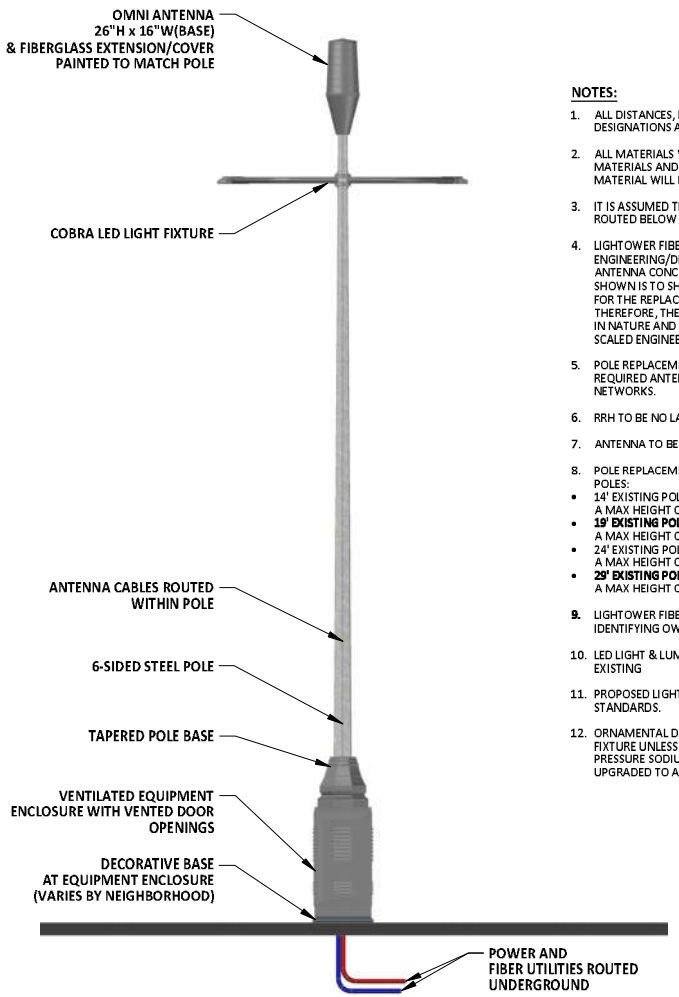
## EXHIBIT X-12

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-12 Double Cobra Light Pole RRH Concealment** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Double Cobra Light Pole (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and will be painted and designed to match exterior pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *14' existing pole to be replaced with new pole and a max height of 16.8'*<br>• *19' existing pole to be replaced with new pole with a max height of 22.8'*<br>• *24' existing pole to be replaced with new pole with a max height of 28.8'*<br>• *29' existing pole to be replaced with new pole with a max height of 34.8'* |
| **Concealment** | *Antenna contained within enclosure painted and tapered to match pole. Cables run inside pole. Remote radiohead, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in width and 4'8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |

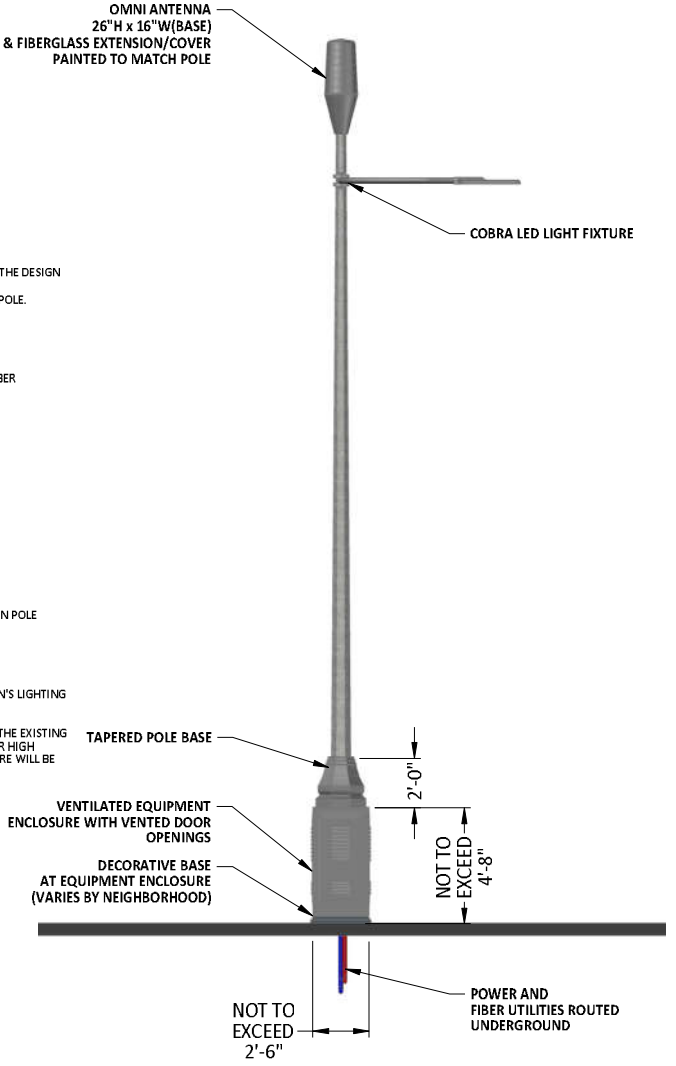
| | |
|---|---|
| **Comments** | |

# PROPOSED DOUBLE COBRA LED STREETLIGHT SOLUTION




**NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS AND EQUIPMENT DESIGNATIONS AND SPECIFICATIONS ARE APPROXIMATE.
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CIRT OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




SCALE IN FEET

5 0 5

① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD


PROPOSED TOP VIEW

SCALE 1"=6'

NOTE:
CABLES & EXISTING POLE EQUIPMENT
NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/19/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

1


EXISTING PHOTOGRAPHIC VIEW


PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower
fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PHOTO SIM

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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DRAFTER: DTB
SCALE: NTS
ISSUE DATE: 12/19/16
NODE NAME: SGMAXXXX
SHEET #: 2 OF 2

2

## EXHIBIT X-13

## SCHEDULE OF APPROVED WIRELESS FACILITIES

| | |
|---|---|
| **Facility Number** | **X-13 Aeriata Light Pole** |
| **Attachment Types** *(check all that apply and provide detail below)* | _X_ Replacement City Pole (streetlight)<br>_X_ Replacement City Property Pole (streetlight)<br>__ Attach to existing City Pole (streetlight)<br>__ Attach to existing City Property Pole (streetlight)<br>__ Attach to existing City Pole (traffic signal)<br>__ Attach to existing City Property Pole (traffic signal)<br>__ Attach to existing City Pole (street furniture)<br>__ Attach to existing City Property Pole (street furniture)<br>__ Attach to Non-City Pole |
| **Attachment Type Detail** | *Aeriata Light Pole (existing or replacement)* |
| **Physical Description** | *Mount antenna (no more than 16" diameter and no more than 40" height) in fiberglass enclosure painted to match pole and affixed to top of pole with tapered extension. Remote radiohead, power and fiber equipment mounted to side of pole and connected to Fiber Demarc on pole.*<br>*Pole Replacement information for all standard lightpoles*<br>• *14' existing pole to be replaced with new pole and a max height of 16.8'*<br>• *19' existing pole to be replaced with new pole with a max height of 22.8'*<br>• *24' existing pole to be replaced with new pole with a max height of 28.8'*<br>• *29' existing pole to be replaced with new pole with a max height of 34.8'* |
| **Concealment** | *Remote radiohead, power and fiber equipment mounted to side of pole and connected to Fiber Demarc on pole.* |
| **Included Documents** | *The following documents:*<br>*A. For each Attachment Type listed or checked above, an engineering drawing of replacement pole or existing pole with attached equipment. The drawing must show the location on the pole where each component of the Wireless Facility is attached or enclosed. Drawings should depict any underground portion of the typical installation for that Attachment Type.*<br>*B. Photo showing an example of each Attachment Type listed or checked above.*<br>*C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.*<br>*Engineering drawings and photo attachments should reflect the dimensions and characteristics of a representative actual City Pole or City Property Pole of the type to which the Approved Wireless Facility design applies rather than generic examples. Where there is considerable variation among City Poles/City Property Poles of a particular type (e.g. traffic signals), drawings can show a typical installation, provided that equipment volumes and attachment locations will not vary significantly from one installation to the next in ways that are material to the City's interests.* |
| **RF Compliance Information** | **X** Facility conforms to information already on file<br>• Information attached |
| **Comments** | |

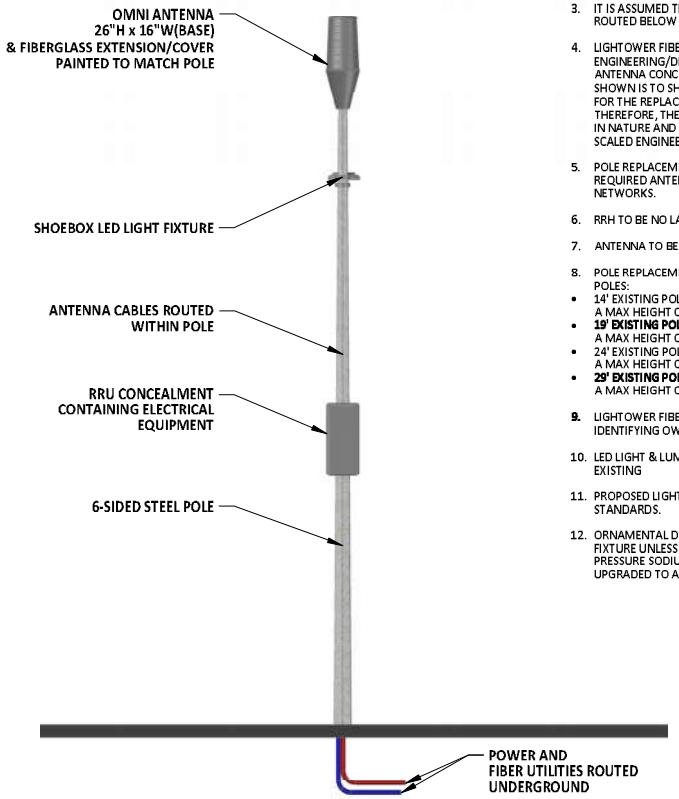
# PROPOSED POLE MOUNTED EQUIPMENT STREETLIGHT SOLUTION

**NOTE:**

**THIS SOLUTION WILL ONLY BE USED ON SITES THAT DO NOT HAVE THE ABILITY TO PLACE AN EQUIPMENT BASE DUE TO LIMITED SIDEWALK WIDTH FOR WHEELCHAIR ACCESS IN THE PEDESTRIAN TRAVEL ZONE.**

**NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS AND EQUIPMENT DESIGNATIONS AND SPECIFICATIONS ARE APPROXIMATE.
2. ALL MATERIALS WILL MATCH CURRENTLY EXISTING MATERIALS AND WHERE NEEDED ANY RF FRIENDLY MATERIAL WILL BE PAINTED TO MATCH.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. LIGHTOWER FIBER NETWORKS IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT & ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE DESIGN SHOWN IS TO SHOW A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLE. THEREFORE, THEY 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 LIGHTOWER FIBER NETWORKS.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
8. POLE REPLACEMENT INFO FOR ALL STANDARD LIGHT POLES:
   - 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. LIGHTOWER FIBER NETWORKS WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINAIRE ARM WILL BE AT SAME HEIGHT AS EXISTING
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
12. 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 LED APPROVED FIXTURE.




① PROPOSED PROFILE - REAR VIEW
FROM FIELD LOOKING TOWARDS ROAD

SCALE IN FEET

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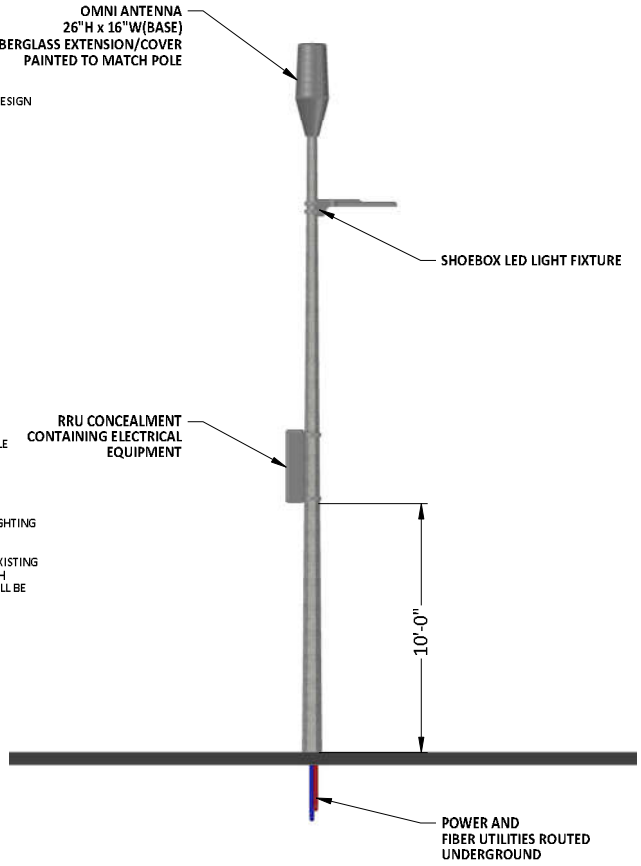
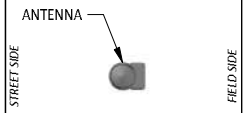



② PROPOSED PROFILE - SIDE VIEW
FROM ROADSIDE LOOKING UP ROAD




PROPOSED TOP VIEW

SCALE 1"=6"

NOTE:
CABLES & EXISTING POLE EQUIPMENT NOT SHOWN FOR CLARITY

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
lightower fiber networks

PREPARED BY:
UC SYNERGETIC
Innovative Thinking, Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseng.com 1-508-337-7600

FIBERTECH SMALL CELL
PROPOSED

| REVISIONS | | |
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| REV. | DESCRIPTION | DATE |
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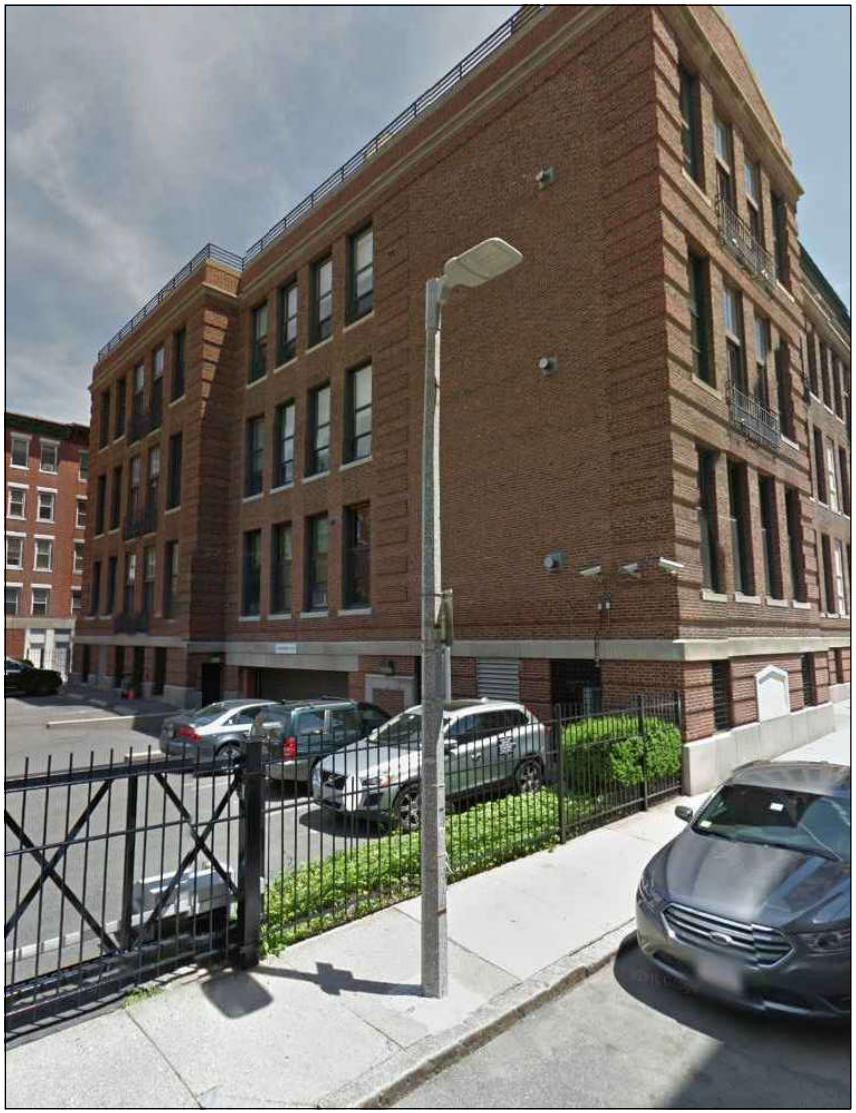
DRAFTER: DTB
SCALE: 1" = 5'
ISSUE DATE: 12/21/16
NODE NAME: SGMAXXXX
SHEET #: 1 OF 2

1



EXISTING PHOTOGRAPHIC VIEW

PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION:
BOSTON, MA

NOTES:

PREPARED FOR:
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DRAFTER: DTB
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2