

**EXHIBIT X-3A**

**SCHEDULE OF APPROVED WIRELESS FACILITIES**

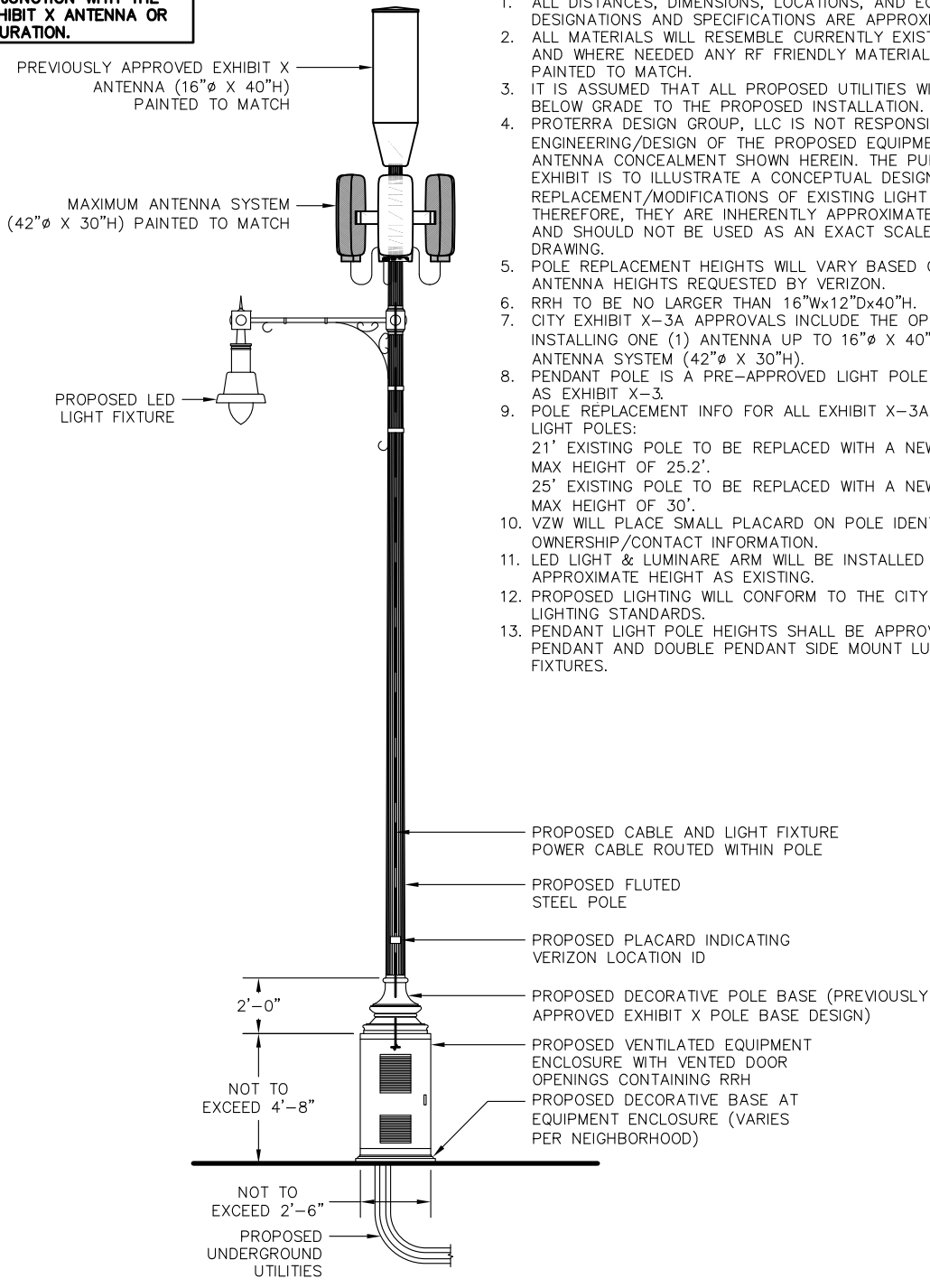
<b>Facility Number</b>	X-3A Pendant Light Pole Antenna System
<b>Attachment Types</b> <i>(check all that apply and provide detail below)</i>	<input checked="" type="checkbox"/> Replacement City Pole (streetlight) <input checked="" type="checkbox"/> Replacement City Property Pole (streetlight) <input type="checkbox"/> Attach to existing City Pole (streetlight) <input type="checkbox"/> Attach to existing City Property Pole (streetlight) <input type="checkbox"/> Attach to existing City Pole (traffic signal) <input type="checkbox"/> Attach to existing City Property Pole (traffic signal) <input type="checkbox"/> Attach to existing City Pole (street furniture) <input type="checkbox"/> Attach to existing City Property Pole (street furniture) <input type="checkbox"/> Attach to Non-City Pole
<b>Attachment Type Detail</b>	Pendant Light Pole <i>(existing or replacement)</i>
<b>Physical Description</b>	<p><i>Antenna System (no more than 42" diameter and no more than 30" height) mounted to exterior of pole and painted to match pole. Antenna system can be installed above or below LED light fixture. Antenna system can be installed with previously approved Exhibit X1 antenna or as stand-alone system. Radio equipment, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' diameter and will be painted to match exterior pole.</i></p> <p><i>Overall height of replacement pole not to exceed 20% of existing pole height(not including antenna)</i></p>
<b>Concealment</b>	<i>Radio equipment, power and fiber equipment concealed within stealth expanded base, not to exceed 2.5' in diameter and 4' 8" in height. A maximum of an additional 2' above enclosure will be used to add decorative tapering.</i>
<b>Included Documents</b>	<p><i>The following documents:</i></p> <ul style="list-style-type: none"> <li><i>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.</i></li> <li><i>B. Photo showing an example of each Attachment Type listed or checked above.</i></li> <li><i>C. Photo mockup of each Attachment Type listed or checked above showing the appearance after the Approved Wireless Facility is installed.</i></li> </ul> <p><i>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.</i></p>
<b>RF Compliance Information</b>	<input checked="" type="checkbox"/> Facility conforms to information already on file <input type="checkbox"/> RF information attached

<b>Comments</b>	
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**NEW TECHNOLOGY NOTE:**  
**THE MAXIMUM ANTENNA SYSTEM SHOWN HEREIN**  
**MAY BE INSTALLED IN CONJUNCTION WITH THE**  
**PREVIOUSLY APPROVED EXHIBIT X ANTENNA OR**  
**AS A STANDALONE CONFIGURATION.**

**GENERAL NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS, AND 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.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. PROTERRA DESIGN GROUP, LLC IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT AND ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE EXHIBIT IS TO ILLUSTRATE A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLES, 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 VERIZON.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. CITY EXHIBIT X-3A APPROVALS INCLUDE THE OPTION OF INSTALLING ONE (1) ANTENNA UP TO 16"Ø X 40" TALL AND (1) ANTENNA SYSTEM (42"Ø X 30"H).
8. PENDANT POLE IS A PRE-APPROVED LIGHT POLE TYPE KNOWN AS EXHIBIT X-3.
9. POLE REPLACEMENT INFO FOR ALL EXHIBIT X-3A PENDANT LIGHT POLES:  
 21' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 25.2'.  
 25' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 30'.
10. VZW WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
11. LED LIGHT & LUMINARE ARM WILL BE INSTALLED AT THE SAME APPROXIMATE HEIGHT AS EXISTING.
12. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
13. PENDANT LIGHT POLE HEIGHTS SHALL BE APPROVED FOR PENDANT AND DOUBLE PENDANT SIDE MOUNT LUMINARY FIXTURES.



**PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3A**

SCALE: 1"=5'



1  
SK-3A

PREPARED BY:  
**ProTerra**  
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**verizon**  
 118 FLANDERS ROAD  
 THIRD FLOOR  
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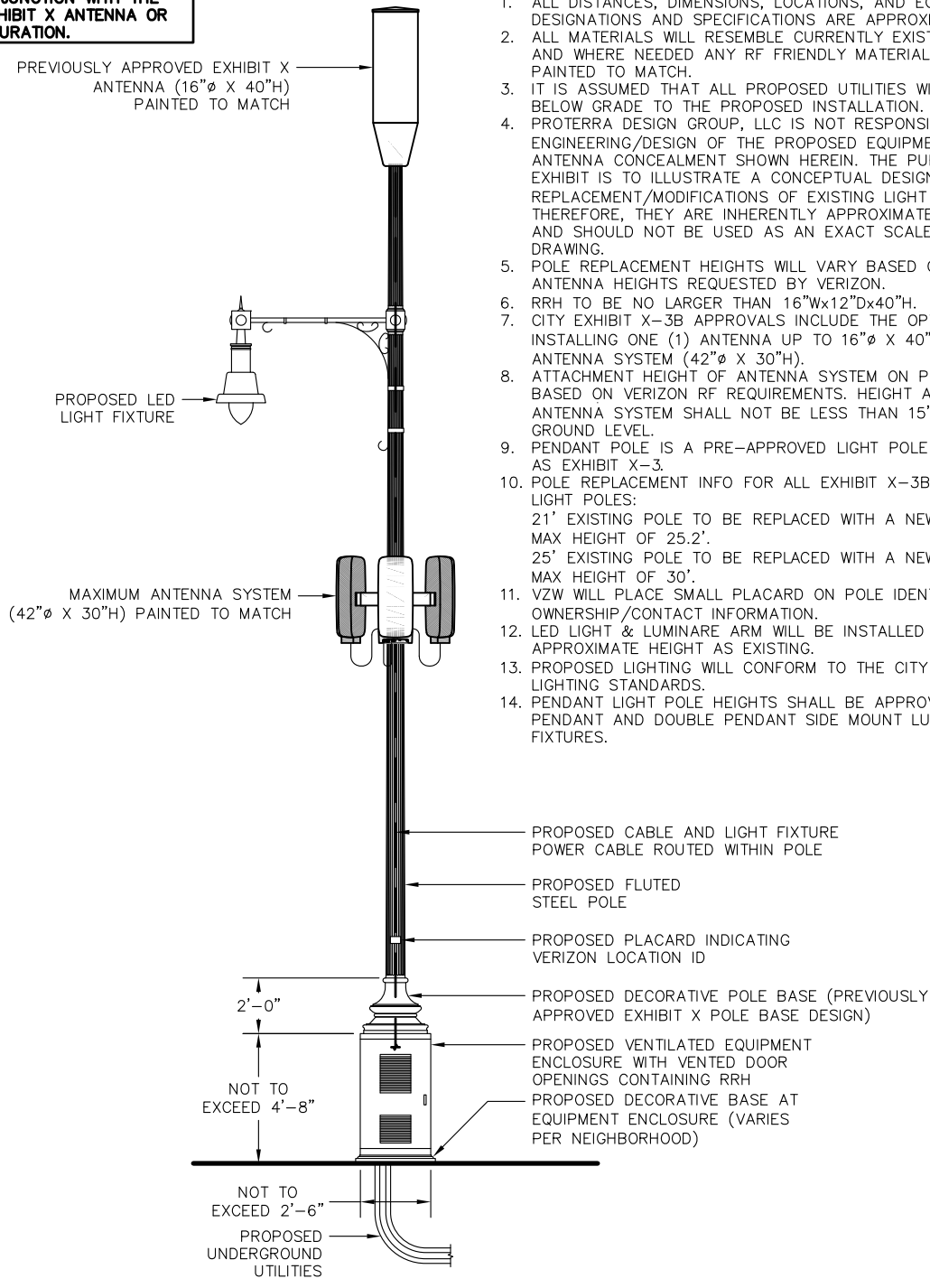
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5	08/28/18	FOR SUBMITTAL	JEB

**SK-3A**

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**PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3B**

SCALE: 1"=5'



1  
SK-3B

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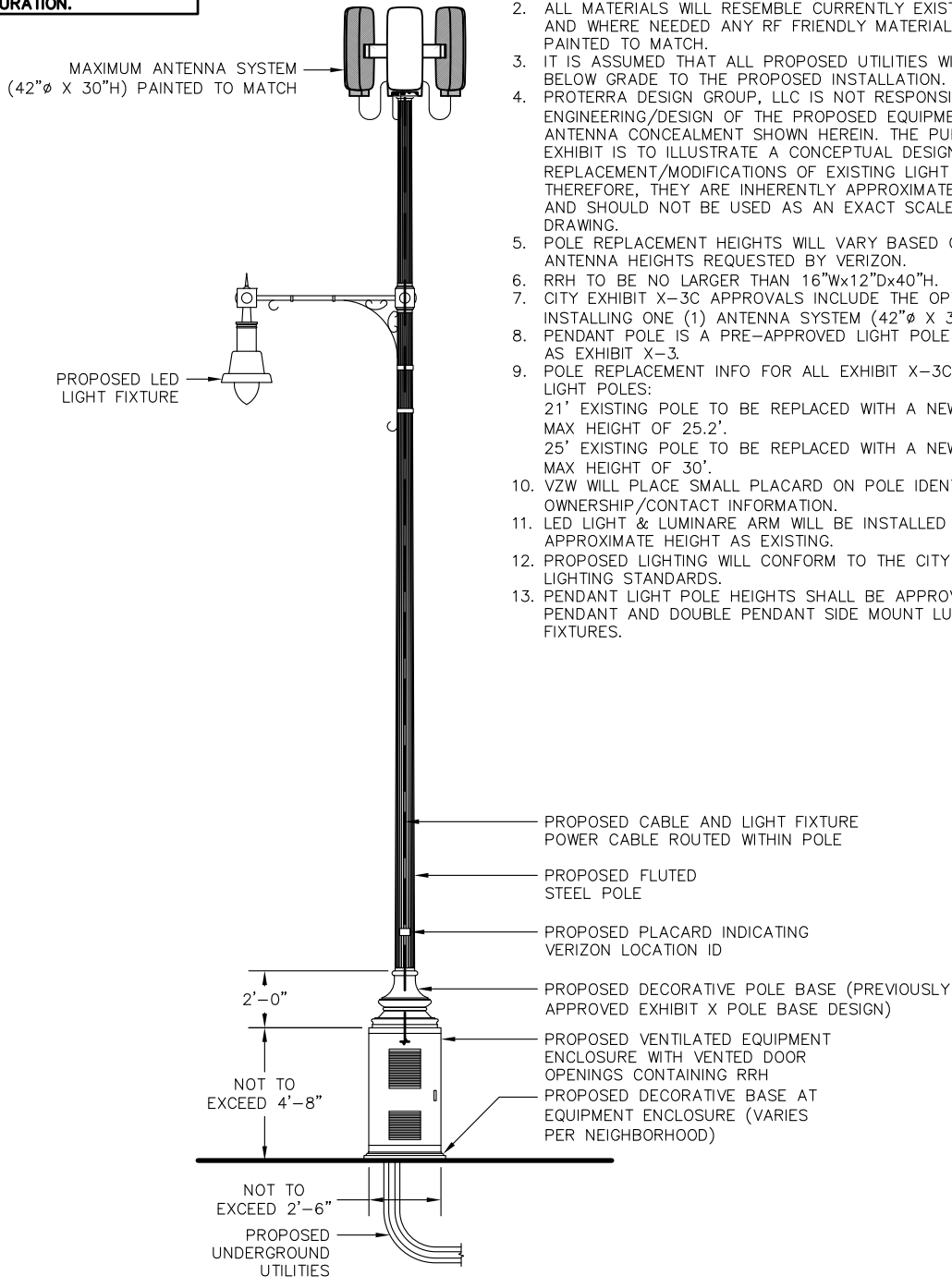
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**SK-3B**

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**PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3C**

SCALE: 1"=5'



1  
SK-3C

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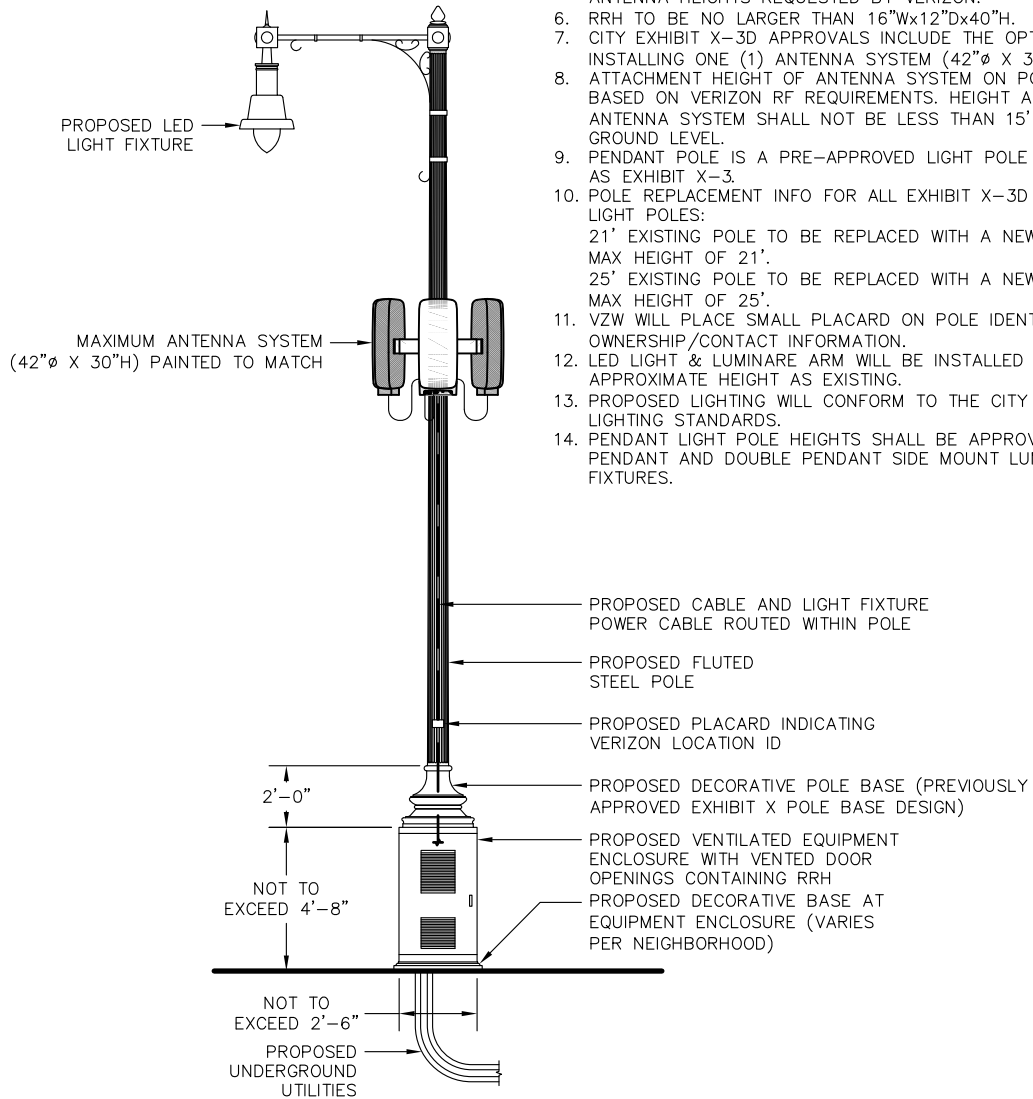
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**SK-3C**

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**PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3D**

SCALE: 1"=5'



1  
 SK-3D

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**verizon**✓

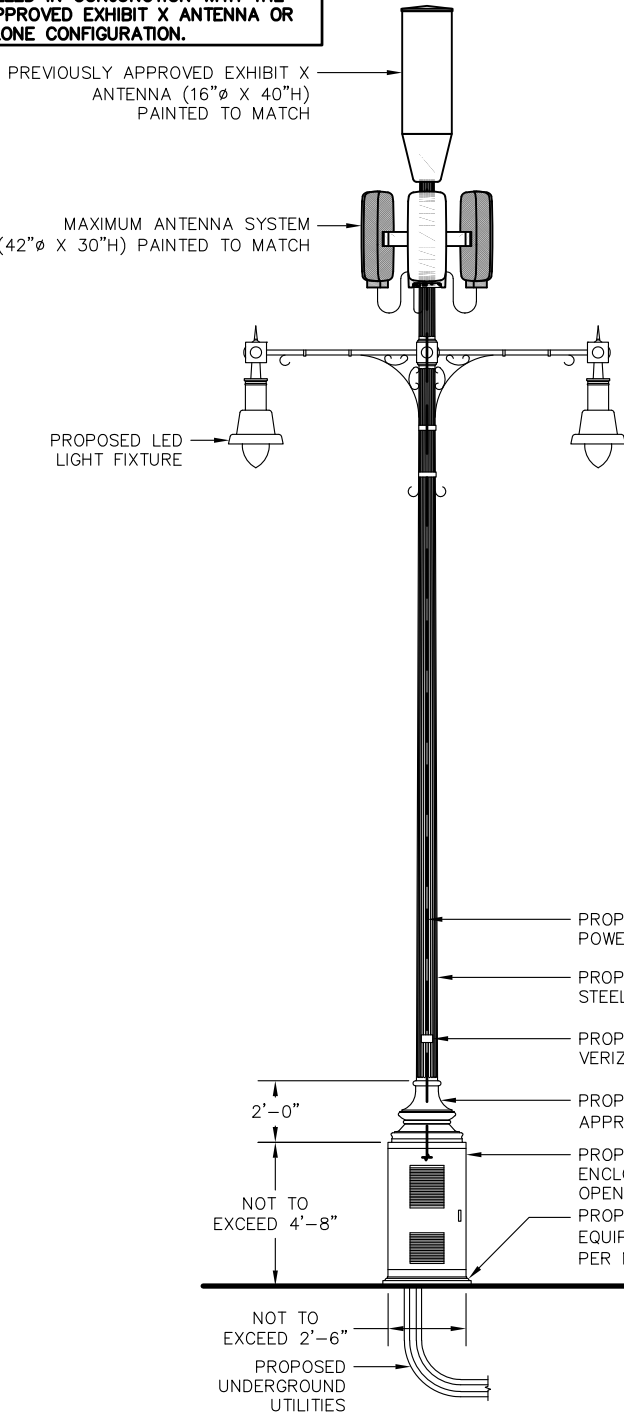
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**SK-3D**

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**DOUBLE PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3A**

SCALE: 1"=5'



1  
SK-3E

PREPARED BY:

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**verizon**

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**REVISIONS**

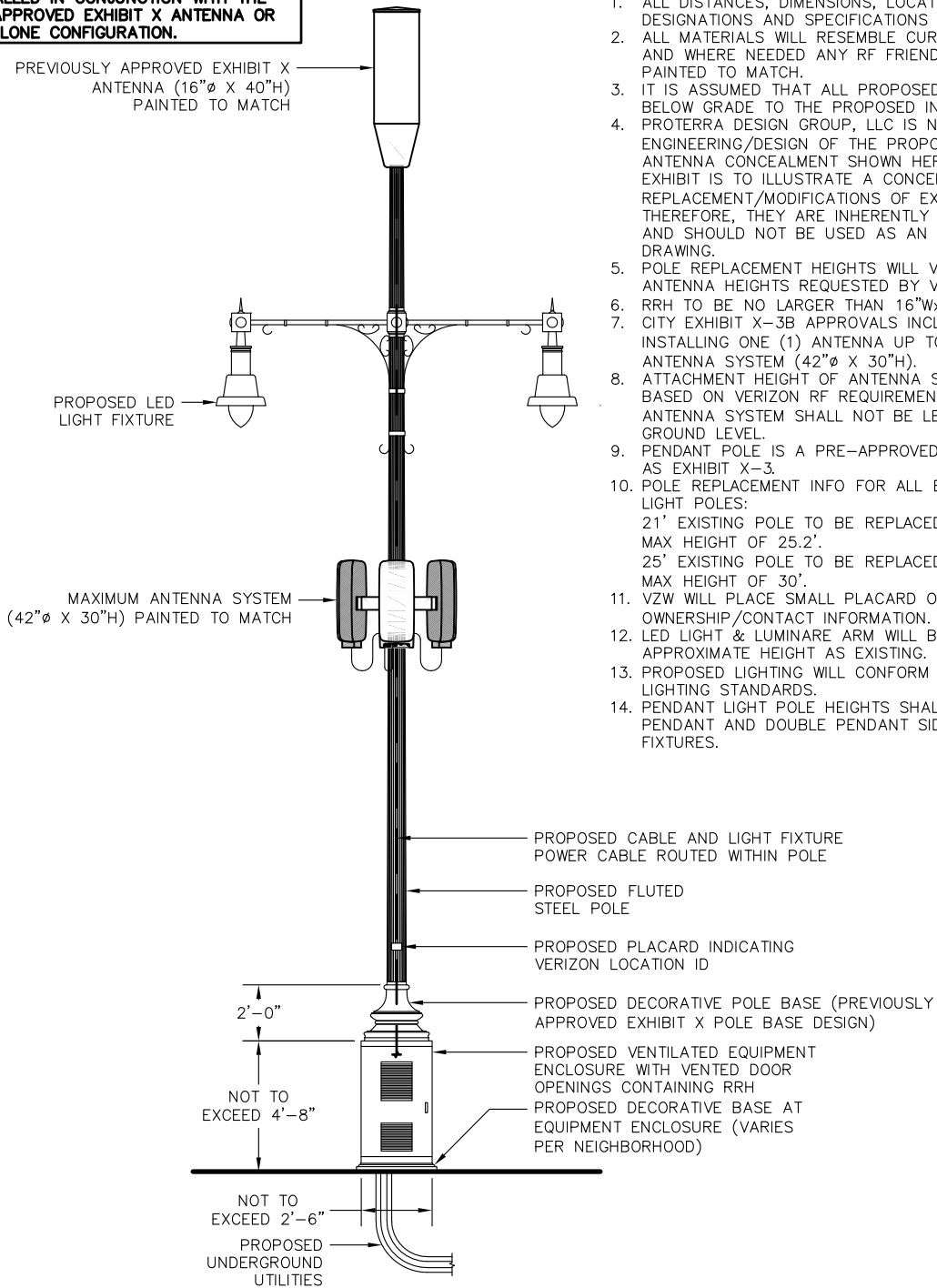
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**SK-3E**

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**DOUBLE PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3B**

SCALE: 1"=5'



1  
SK-3F

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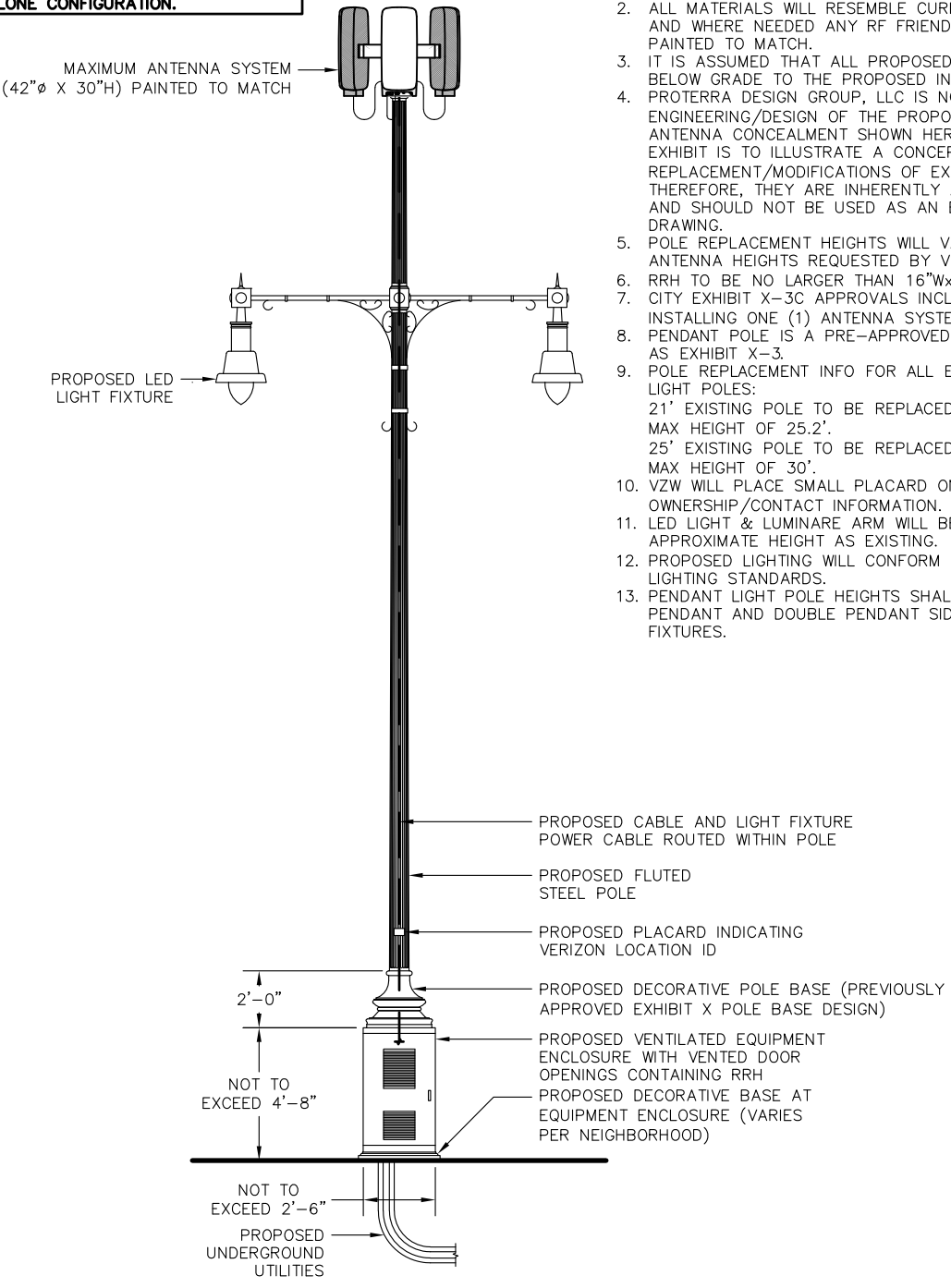
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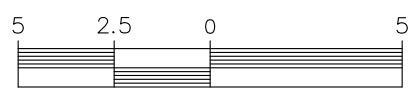
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**DOUBLE PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3C**

SCALE: 1"=5'



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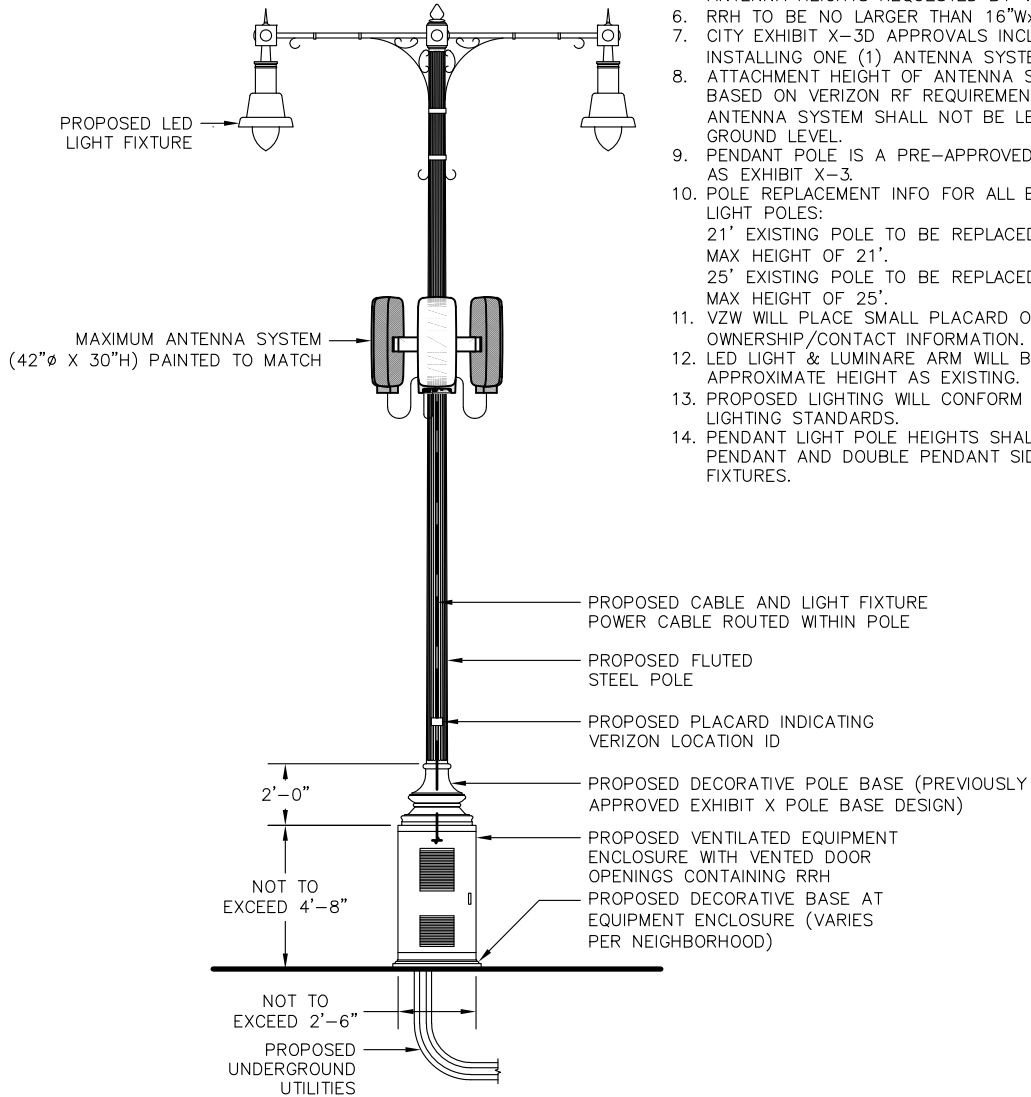
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**GENERAL NOTES:**

1. ALL DISTANCES, DIMENSIONS, LOCATIONS, AND 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.
3. IT IS ASSUMED THAT ALL PROPOSED UTILITIES WILL BE ROUTED BELOW GRADE TO THE PROPOSED INSTALLATION.
4. PROTERRA DESIGN GROUP, LLC IS NOT RESPONSIBLE FOR THE ENGINEERING/DESIGN OF THE PROPOSED EQUIPMENT AND ANTENNA CONCEALMENT SHOWN HEREIN. THE PURPOSE OF THE EXHIBIT IS TO ILLUSTRATE A CONCEPTUAL DESIGN FOR THE REPLACEMENT/MODIFICATIONS OF EXISTING LIGHT POLES, 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 VERIZON.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
7. CITY EXHIBIT X-3D APPROVALS INCLUDE THE OPTION OF INSTALLING ONE (1) ANTENNA SYSTEM (42"Ø X 30"H).
8. ATTACHMENT HEIGHT OF ANTENNA SYSTEM ON POLE WILL VARY BASED ON VERIZON RF REQUIREMENTS. HEIGHT AT BOTTOM OF ANTENNA SYSTEM SHALL NOT BE LESS THAN 15' ABOVE GROUND LEVEL.
9. PENDANT POLE IS A PRE-APPROVED LIGHT POLE TYPE KNOWN AS EXHIBIT X-3.
10. POLE REPLACEMENT INFO FOR ALL EXHIBIT X-3D PENDANT LIGHT POLES:  
 21' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 21'.  
 25' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 25'.
11. VZW WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
12. LED LIGHT & LUMINARE ARM WILL BE INSTALLED AT THE SAME APPROXIMATE HEIGHT AS EXISTING.
13. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
14. PENDANT LIGHT POLE HEIGHTS SHALL BE APPROVED FOR PENDANT AND DOUBLE PENDANT SIDE MOUNT LUMINARY FIXTURES.



**DOUBLE PENDANT LIGHT POLE ELEVATION - EXHIBIT X-3D**

SCALE: 1"=5'



1  
 SK-3H

PREPARED BY:

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**verizon**

118 FLANDERS ROAD  
 THIRD FLOOR  
 WESTBOROUGH, MA 01581

**REVISIONS**

REV	DATE	DESCRIPTION	BY
5	08/30/18	FOR SUBMITTAL	JEB

**SK-3H**



**PENDANT LIGHT POLE  
EXISTING CONDITIONS PHOTOGRAPH - EXHIBIT X-3**

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**PS-3**



**PENDANT LIGHT POLE  
EXISTING CONDITIONS PHOTOGRAPH - EXHIBIT X-3**

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**PENDANT LIGHT POLE  
PROPOSED CONDITIONS PHOTOSIMULATION - EXHIBIT X-3B**

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**PS-3B**



**PENDANT LIGHT POLE  
PROPOSED CONDITIONS PHOTOSIMULATION - EXHIBIT X-3C**

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**PENDANT LIGHT POLE  
PROPOSED CONDITIONS PHOTOSIMULATION - EXHIBIT X-3D**

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**PS-3D**



**DOUBLE PENDANT LIGHT POLE  
EXISTING CONDITIONS PHOTOGRAPH - EXHIBIT X-3**

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**DOUBLE PENDANT LIGHT POLE  
PROPOSED CONDITIONS PHOTOSIMULATION - EXHIBIT X-3A**

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**DOUBLE PENDANT LIGHT POLE  
PROPOSED CONDITIONS PHOTOSIMULATION - EXHIBIT X-3B**

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**PS-3G**



**DOUBLE PENDANT LIGHT POLE  
PROPOSED CONDITIONS PHOTOSIMULATION - EXHIBIT X-3C**

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**PS-3H**



**DOUBLE PENDANT LIGHT POLE  
PROPOSED CONDITIONS PHOTOSIMULATION - EXHIBIT X-3D**

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**PS-31**