# PHOTOGRAPHIC RENDERINGS

BASED ON PROTERRA DESIGN LLC DOCUMENT: BOS\_BBCOP\_007\_MA\_LE\_REV1 DATED:01/29/2019





4 Bay Road, Bldg, A Ph: (413)320-4918 Suite 200 Hadley, MA 01035 BOS\_BBCOP\_007\_MA - LOCATION ID: 515466
POLE LOCATION: COLUMBUS AVENUE, SOUTH END NEIGHBORHOOD
BOSTON, MA 02118

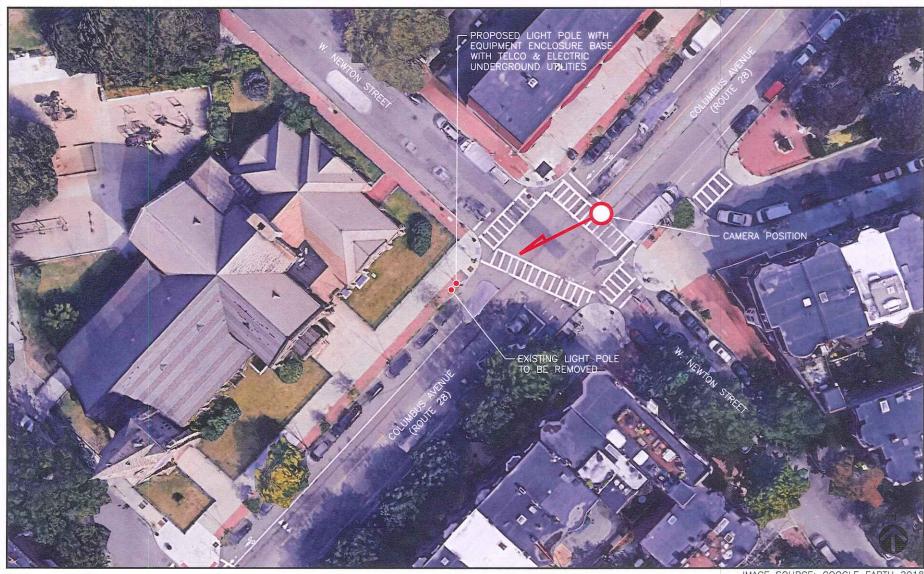
CAMERA LOCATION: 68'± FROM TARGET WITH 50mm LENS

THIS DOCUMENT IS FOR VISUAL REFERENCE ONLY. VISIBILITY MAY VARY DEPENDING ON CONDTIONS, SEASONS, AND VIEWER LOCATION.



# PHOTO LOCATION MAP

BASED ON PROTERRA DESIGN LLC DOCUMENT: BOS\_BBCOP\_007\_MA\_LE\_REV1 DATED:01/29/2019





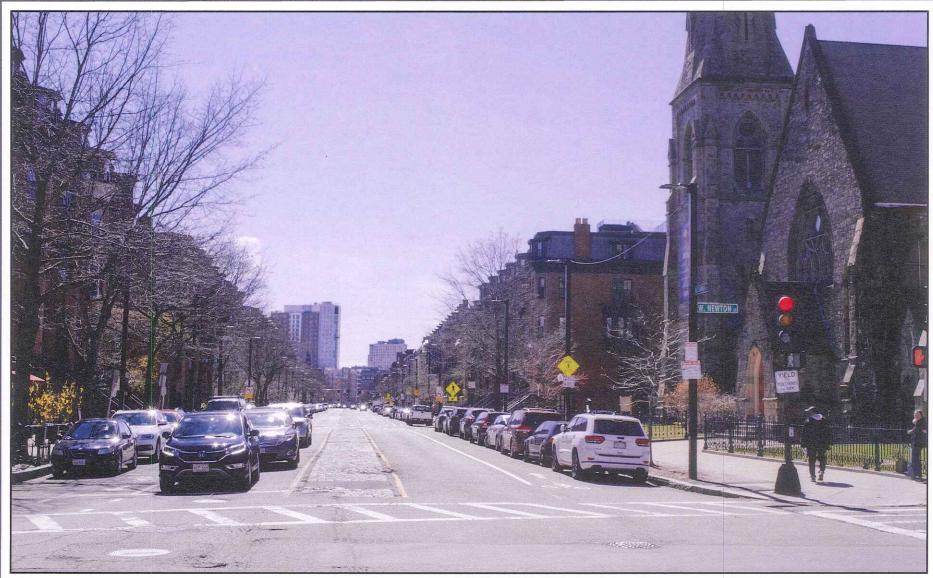
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IMAGE SOURCE: GOOGLE EARTH 2018







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# **GENERAL NOTES**

## CODE SPECIFICATIONS

- ALL GENERAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE CODES AND LOCAL DRINNANCES, RULES, AND SPECIFICATIONS FOR INSTALLING LUMINAINESS SUPPORTING COMMUNICATIONS EQUIPMENT WITHIN THE PUBLIC—RIGHT—OF—WAY,
- ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY SPECIFICATIONS, NESC & NEC 2017 (NFPA70) WITH MA AMENDMENTS (527 CWR 12.00).

- GROUNDING SHALL COMPLY WITH THE LOCAL UTILITY COMPANY CODES AND REQUIREMENTS, NEC ART, 250, AND NESC OR MOST RECENT AS ADOPTED.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD.
- ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED, GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLES, ALWAYS MAKE 12\* RADIUS BENDS, #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONNECTIONS TO GROUNDING BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUCS, APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS,
- TEST COMPLETED GROUNDING SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION, GROUND RESISTANCE SHALL BE WITHIN VERIZON SPECIFICATIONS.
- CONDUIT SHALL BE PVC, HEAVY WALL SUNUGHT RESISTANT (8-7 PERCENT TITANIUM DIOWDE BY WRIGHT), SCHEDULE 40 OR SCHEDULE BO UNDER PAYMENT AS PER ANS/AEMA TC 2-2003 UNLESS OTHERWISE NOTED OR AS DIRECTED BY UTILITY PURVEYOR.
- DISCONNECT AND OVERCURRENT PROTECTION DESIGNED AND SIZED IN COMPLIANCE WITH NEC REQUIREMENTS FOR OUTDOOR INSTALLATIONS,
- ALL MOUNTING BRACKETS AND HARDWARE SHALL BE SUFFICIENTLY PROTECTED FROM CORROSION BY GALMANIZING, PROTECTIVE COATING OR OTHERWISE, THESE SHALL BE SECURED TO THE POLE WITH HARDWARE OF ADEQUATE STRENGTH FOR THE LOAD.
- RADIO FREQUENCY (RF) RADIATION WARNING SIGNAGE AS REQUIRED BY OSHA SHALL BE PRESENT AND VISIBLE TO PERSONS WORKING NEAR ANTENNA. REQUESTER MUST SUBMIT DOCUMENTS THAT STATE THE RF OUTPUT OF THE ANTENNA FOR EACH LOCATION.

### SITE NOTES

- NORTH SHOWN IS APPROXIMATE, NOT ALL EXISTING OR PROPOSED IMPROVEMENTS ARE SHOWN FOR CLARITY,
- 2. THIS DOCUMENT IS FOR ILLUSTRATION & LEASING PURPOSES ONLY
- POWER AND TELCO UNDERGROUND UTILITY SOURCES AND FINAL ROUTING SHALL BE DETERMINED BY OTHERS, IT IS THE RESPONSIBILITY OF THE UTILITY PURVEYOR AND VERIZON WIRELESS TO OBTAIN ALL APPROVALS AND EASEMENTS AS REQUIRED,
- SITE PLAN AND RELATIVE LIGHT POLE ELEVATIONS BASED ON SITE VISIT BY PROTERRA DESIGN GROUP, LLC. GROUND LEVEL MASL ELEVATIONS AND APPROXIMATE PROPOSED LIGHT POLE COORDINATES SHOWN HEREIN ARE BASED ON LOCATIONS DERIVED FROM AERAL MAGERY IN PUBLICLY AVAILABLE GEOGRAPHIC INFORMATION SYSTEMS (GIS)
- 5. FINAL COORDINATES AND ELEVATIONS OF LIGHT POLE MAY VARY AS SHOWN HEREON DEPENDING ON FIELD PLACEMENT.
- THIS PLAN EXHBIT IS SCHEMATIC IN NATURE AND IS INTENDED TO PROMDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WRELESS COMMINICATION FACILITY, LOCATION, SIZE AND TYPE SHALL BE CONFIRMED BY THE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE LICENSED TECHNICIANS FAMILIAR WITH SUCH INSTALLATIONS AND THE REQUIRED CODES.

## STRUCTURAL NOTES

- LIGHT POLES ARE SHOWN SCHEMATICALLY AND IT IS THE RESPONSIBILITY OF VERZON WIRELESS TO DETERMINE THE STRUCTURAL ADEQUACY OF THE PROPOSED INSTALLATION.
- CONTRACTOR SHALL CONFIRM ANTENNA AND EQUIPMENT ATTACHMENT METHOD CONFORMS WITH ALL WANUFACTURER SPECIFICATIONS AND VERIZON WIRELESS PRIOR TO CONSTRUCTION.

APPROVED, STREET LIGHTING DIVISION

# BOS\_BBCOP\_007\_MA VERIZON LOCATION ID:

515466

POLE LOCATION:

**COLUMBUS AVENUE** SOUTH END NEIGHBORHOOD **BOSTON, MA 02118** 



IMAGE SOURCE: GOOGLE EARTH 2018



APPROXIMATE PROPOSED LATITUDE: N 42.343159°± N 42° 20° 35.37°±
POLE COORDINATES: LONGITUDE: W 71.078703°± W 71° 04° 43.33°±

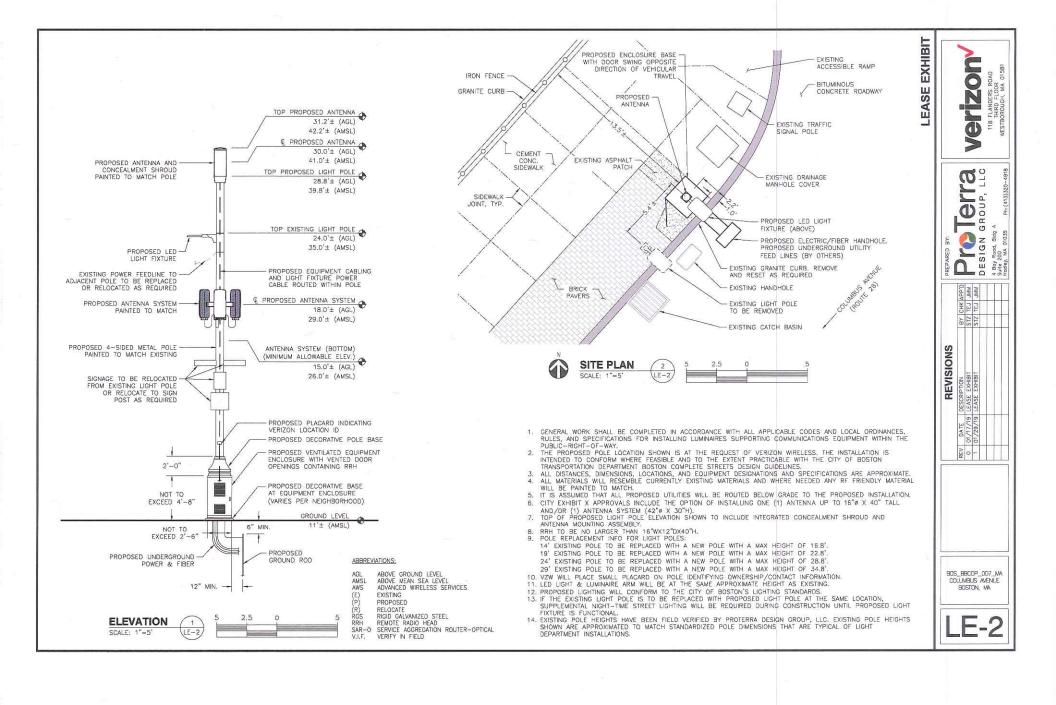
(SEE SITE NOTES NO. 5)

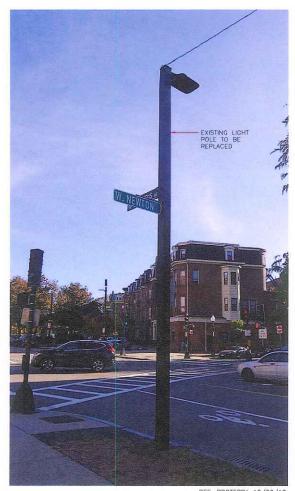
EXHIBIT EASE



**დ** ვ GROU DESIGN

COLUMBUS AVENUE BOSTON, MA

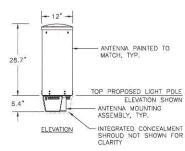




REF: PROTERRA 10/26/18

PHOTO DETAIL SCALE: N.T.S.





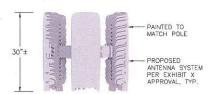
ANTENNA SPECIFICATIONS

MODEL: COMMSCOPE NNWSSP-360S-FM ANTENNA DIMENSIONS: 12"Ø x 28.7"H WEIGHT: 26.7 LBS. ±

**ANTENNA DETAIL** 

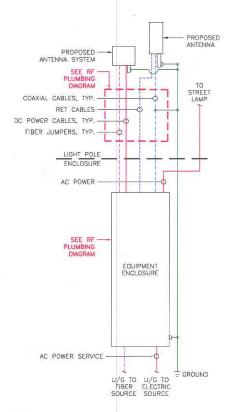
SCALE: N.T.S.





ANTENNA SYSTEM DETAIL





NOTES:

1. IT IS THE RESPONSIBILITY OF VERIZON WIRELESS AND THE POLE MANUFACTURER TO DETERMINE THE PROPOSED EQUIPMENT AND CABLING, QUANTITIES, CONSTRAINTS, AND FITMENT WITHIN THE PROPOSED POLE.

2. CONTRACTOR TO FIELD TEST AND THE INTO EXISTING GROUNDING SYSTEM. IF GROUNDING SYSTEM DOES NOT MEET VERIZON WIRELESS STANDARDS OR IS NOT FOUND, CONTRACTOR SHALL NOTIFY POLE OWNER AND INSTALL GROUNDING SYSTEM PER UTILITY PROVIDER AND VERIZON WIRELESS REQUIREMENTS AND SPECIFICATIONS.

3. CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN WITH VERIZON WIRELESS RE GRIGHER PRIOR TO CONSTRUCTION.

4. CONTRACTOR SHALL HAVE WRITTEN WORK AUTHORIZATION FROM POLE OWNER PRIOR TO COMMENCEMENT OF WORK.

POLE OWNER PRIOR TO COMMENCEMENT OF WORK.
THE WIRING DIAGRAM SHOWN HEREIN IS SCHEMATIC. THE
INSTALLATION SHALL BE VERIFIED AND INSPECTED BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH APPLICABLE CODES.

**GENERAL WIRING DIAGRAM** 

Verizon

**LEASE EXHIBIT** 

GROUP, LLC

DESIGN REVISIONS

FOR SCHEMATIC CNLY

BOS\_BBCOP\_007\_MA COLUMBUS AVENUE BOSTON, MA