

GENERAL NOTES

CODE SPECIFICATIONS

1. ALL GENERAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE, 8TH EDITION (780 CMR).
2. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY SPECIFICATIONS & NEC 2014 WITH MA AMENDMENTS.

GROUNDING & ANTENNA INSTALLATION

1. GROUNDING SHALL COMPLY WITH THE LOCAL UTILITY COMPANY CODES AND REQUIREMENTS, NEC ART. 250, AND NESC 2012.
2. ALL GROUND CONNECTIONS TO BE BURIED HYDRON COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD.
3. 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. 90° WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
4. CONNECTIONS TO GROUNDING BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
5. TEST COMPLETED GROUNDING SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION. GROUND RESISTANCE SHALL BE WITHIN VERIZON SPECIFICATIONS.

CONSTRUCTION NOTES

1. CONDUIT SHALL BE TWO INCH PVC, HEAVY WALL SUNLIGHT RESISTANT (6-7 PERCENT TITANIUM DIOXIDE BY WEIGHT), SCHEDULE 40 AS PER ANSI/NEMA TC 2-2003.
2. DISCONNECT AND OVERCURRENT PROTECTION SIZED AND DESIGNED IN COMPLIANCE WITH NEC REQUIREMENTS FOR OUTDOOR INSTALLATIONS. THIS MAY BE LOCATED IN A SEPARATE COMPARTMENT FOR CT/MA INSTALLATIONS.
3. ANTENNA AND ALL MOUNTING BRACKETS SHALL HAVE GALVANIZED STEEL MOUNTING BASES. THESE SHALL BE SECURED TO THE POLE WITH GALVANIZED HARDWARE OF ADEQUATE STRENGTH FOR THE LOAD.
4. 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

1. NORTH SHOWN IS APPROXIMATE. NOT ALL EXISTING OR PROPOSED IMPROVEMENTS ARE SHOWN FOR CLARITY.
2. THIS DOCUMENT IS FOR LEASING PURPOSES ONLY.
3. POWER AND TILES TO COME FROM EXISTING OVERHEAD AND UNDERGROUND UTILITY LINES. SERVICE SOURCE TO BE DETERMINED. SEE ONE LINE DIAGRAM FOR CONTRACTOR AND UTILITY COMPANY RESPONSIBILITIES.
4. SITE PLAN AND ELEVATIONS BASED ON SITE VISIT BY PROTERRA DESIGN GROUP, LLC ON 09/19/16.
5. APPROXIMATE PROPOSED LIGHT POLE COORDINATES BASED ON FAA-20 FIELD SURVEY PERFORMED USING GPS. FINAL COORDINATES AND ELEVATIONS OF LIGHT POLE MAY VARY FROM EXISTING AS SHOWN HEREON.
6. AERIAL IMAGERY BASED ON GOOGLE.
7. THIS PLAN EXHIBIT IS SCHEMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE CONTRACTOR SHALL PROVIDE LICENSED TECHNICIANS FAMILIAR WITH SUCH INSTALLATIONS AND THE REQUIRED CODES.

STRUCTURAL NOTES

1. BEFORE ISSUANCE OF ATTACHMENT LICENSE, POLE OWNER HAS COMPLETED INDUSTRY-STANDARD STRUCTURAL ANALYSIS TO CONFIRM THAT POLE HAS STRUCTURAL CAPACITY TO SUPPORT THE ATTACHMENTS PROPOSED, BASED ON STANDARDS SPECIFIED IN NATIONAL ELECTRICAL SAFETY CODE (LATEST EDITION).
2. CONTRACTOR TO CONFIRM ANTENNA AND EQUIPMENT ATTACHMENT METHOD WITH STRUCTURAL ANALYSIS AND VERIZON WIRELESS PRIOR TO CONSTRUCTION.

FENWAY WEST SC04 MA

VERIZON LOCATION ID:

433635

POLE LOCATION:

**FULLERTON STREET
FENWAY NEIGHBORHOOD
BOSTON, MA**

IN FRONT OF:

**201 BROOKLINE AVENUE
BOSTON, MA 02115**



IMAGE SOURCE: GOOGLE EARTH 2016

[Signature] 3/2/18
Approved, Street Lighting Division



KEY PLAN
SCALE: N.T.S.



APPROXIMATE PROPOSED POLE COORDINATES: LATITUDE: N 42.345570° ± N 42° 20' 44.05" ±
LONGITUDE: W 71.102254° ± W 71° 06' 08.11" ±

(SEE SITE NOTES NO. 5)

LEASE EXHIBIT



PREPARED BY:
ProTerra
DESIGN GROUP, LLC
4 Bar Road, Bldg A
Suite 200
Holliston, MA 01935
Ph: (413)326-4918

REV#	DATE	DESCRIPTION	BY	DATE
0	10/28/16	LEASE EXHIBIT	MAV	TEJ

REVISIONS

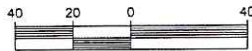
FENWAY WEST SC04 MA
FULLERTON STREET
BOSTON, MA

LE-1



OVERVIEW PLAN
SCALE: 1"=40'

1
LE-2



LEASE EXHIBIT

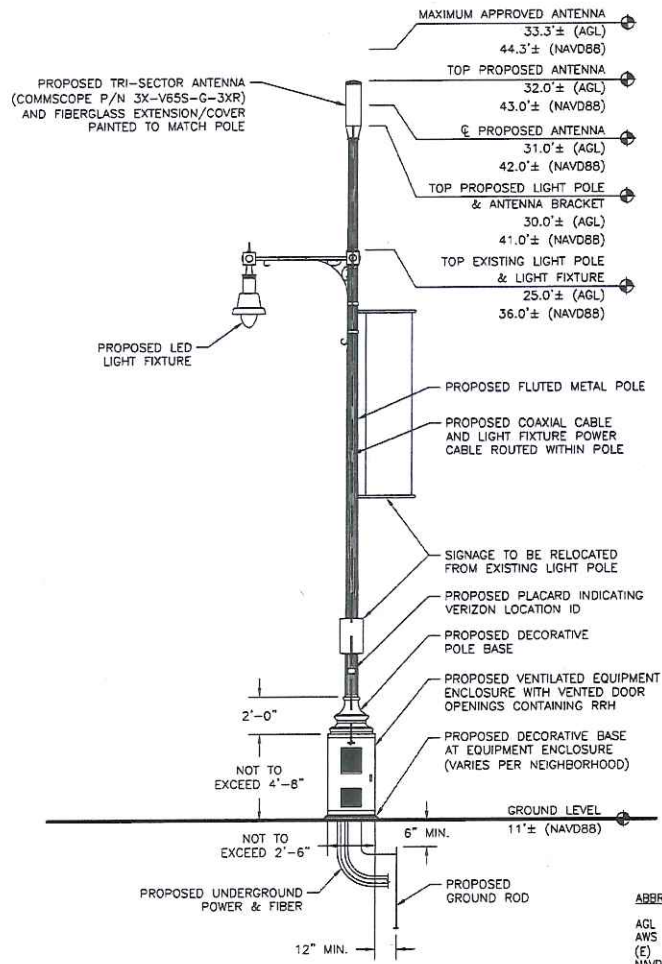
verizon
118 FLANDERS ROAD
THIRD FLOOR
WESTBOROUGH, MA 01581

PREPARED BY:
ProTerra
DESIGN GROUP, LLC
4 Bay Road, Bldg A
Hudson, MA 01035 PH: (413)329-4988

REV	DATE	DESCRIPTION	BY	CHECKED
0	10/28/16	LEASE EXHIBIT	JUN TEJ	JUN

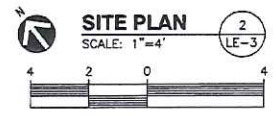
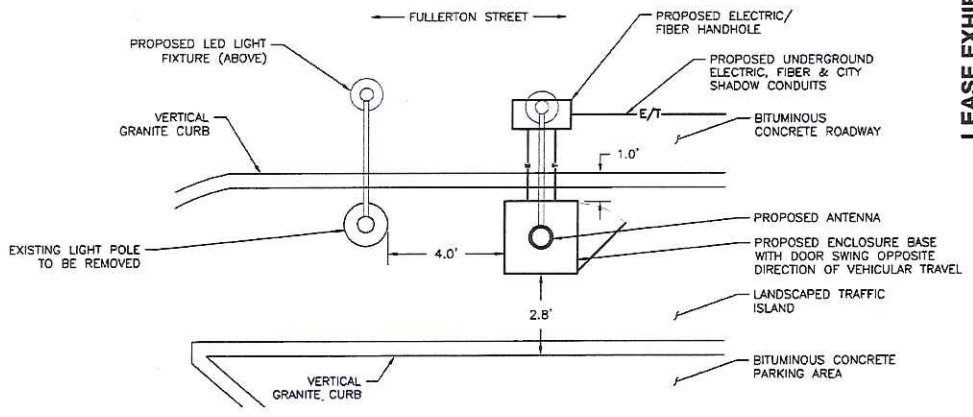
FENNY WEST 5004 MA
FULLERTON STREET
BOSTON, MA

LE-2



ABBREVIATIONS:

AGL ABOVE GROUND LEVEL
 AWS ADVANCED WIRELESS SERVICES
 (E) EXISTING
 NAVD88 NORTH AMERICAN VERTICAL DATUM 1988
 (P) PROPOSED
 (R) RELOCATE
 RGS RIGID GALVANIZED STEEL
 RRH REMOTE RADIO HEAD
 SAR-O SERVICE AGGREGATION ROUTER-OPTICAL
 V.I.F. VERIFY IN FIELD



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. POLE REPLACEMENT HEIGHTS WILL VARY BASED ON REQUIRED ANTENNA HEIGHTS REQUESTED BY VERIZON WIRELESS.
5. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
6. ANTENNA TO BE NO LARGER THAN 16"Øx40"H.
7. POLE REPLACEMENT INFO FOR ALL 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'.
8. PENDANT POLE IS A PRE-APPROVED LIGHT POLE TYPE KNOWN AS EXHIBIT X-3
9. VZW WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
10. LED LIGHT & LUMINARE ARM WILL BE AT SAME HEIGHT AS EXISTING.
11. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.

LEASE EXHIBIT



115 FLANNERS ROAD
 WESTBOROUGH, MA 01581

PREPARED BY:
ProTerra
 DESIGN GROUP, LLC
 4 Boy Road, Bldg A
 Sudbury, MA 01555
 PH: (413)322-6918

REV	DATE	DESCRIPTION	BY	CHK	APP'D
0	10/28/16	LEASE EXHIBIT	MAV	TEJ	JAM

FENWAY WEST SC04 MA
 FULLERTON STREET
 BOSTON, MA

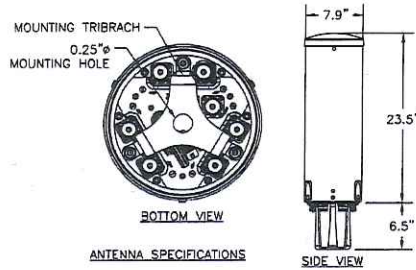
LE-3



EXISTING PENDANT LIGHT
POLE TO BE REPLACED

PHOTO DETAIL
SCALE: N.T.S.

1
LE-4



ANTENNA SPECIFICATIONS

MODEL: COMMSCOPE
3X-VBSS-G-3XR
ANTENNA DIMENSIONS: 7.9"ø x 23.5"H
TOTAL DIMENSIONS: 7.9"ø x 30"H
WEIGHT: 15.9 LBS. ±

ANTENNA DETAIL
SCALE: N.T.S.

2
LE-4

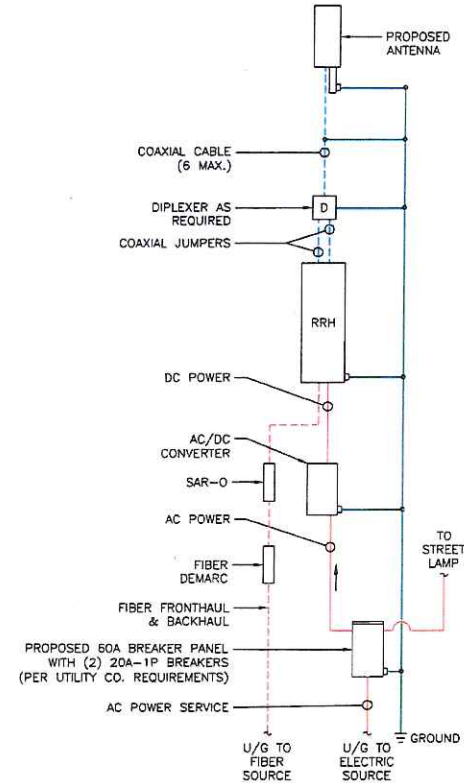


AWS RRH SPECIFICATIONS

DIMENSIONS: 25.8"H x 12"W x 7.3"D
WEIGHT: 67 LBS.

RRH DETAIL
SCALE: N.T.S.

3
LE-4



NOTES:

- CONTRACTOR TO FIELD TEST AND TIE 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.
- CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN WITH VERIZON WIRELESS RF ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL HAVE WRITTEN WORK AUTHORIZATION FROM POLE OWNER PRIOR TO COMMENCEMENT OF WORK.

GENERAL WIRING DIAGRAM
SCALE: N.T.S.

4
LE-4

LEASE EXHIBIT



PREPARED BY:
ProTerra
DESIGN GROUP, LLC
4 Bay Road, Bldg. A
Suite 200
Hedley, MA 01035 Ph: (413) 320-4918

REV	DATE	DESCRIPTION	BY		JAM
			CHK	APP'D	
0	10/28/16	LEASE EXHIBIT	MAV	TEJ	

REVISIONS

FENWAY WEST SC04 MA
FULLERTON STREET
BOSTON, MA

LE-4



ProTerra
DESIGN GROUP, LLC

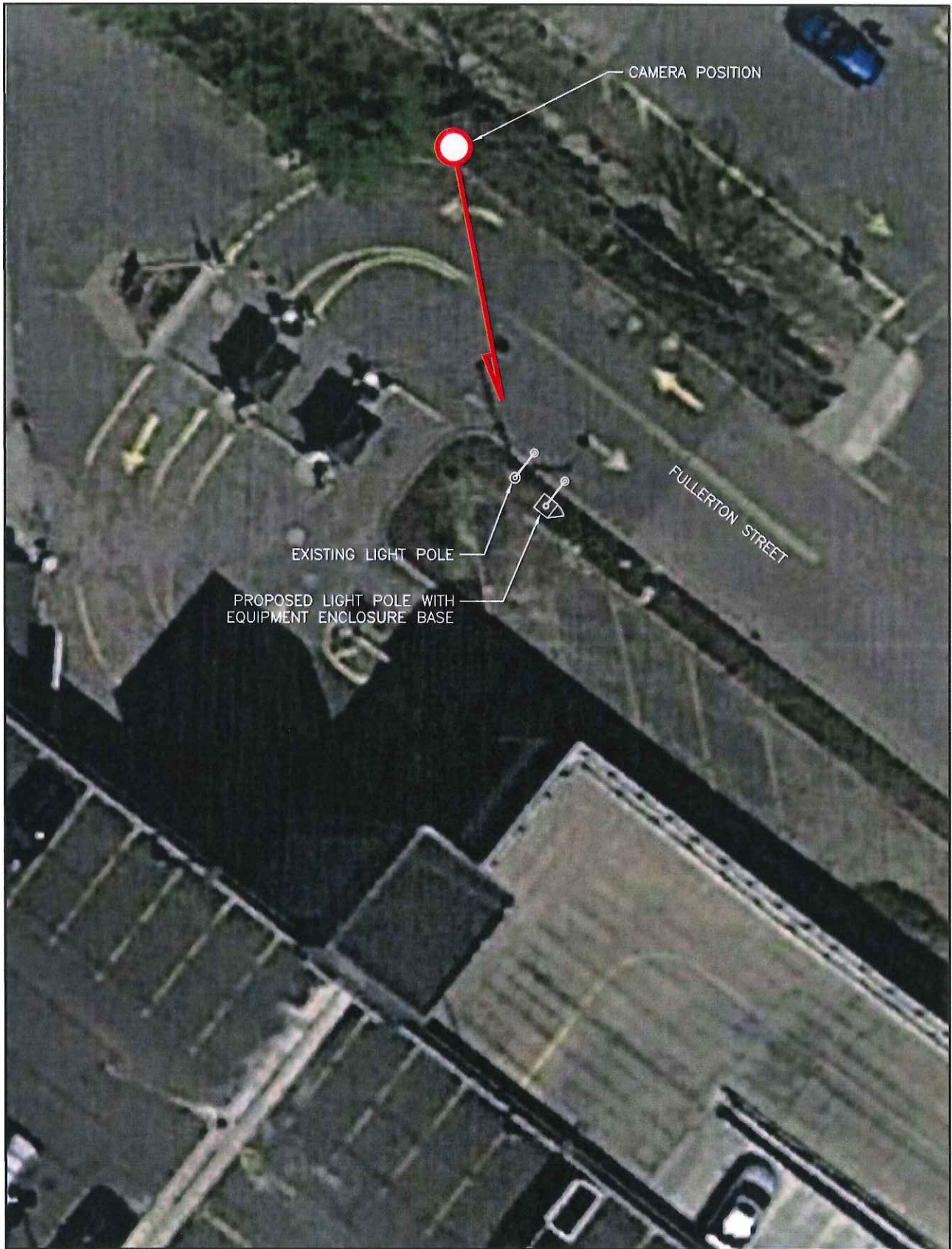
4 Bay Road, Bldg. A Ph: (413)320-4918
Suite 200
Hadley, MA 01035

FENWAY SC04 MA
POLE LOCATION: FULLERTON STREET
FENWAY NEIGHBORHOOD BOSTON, MA 02215
CAMERA LOCATION: 50.0'±

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

verizon^v

118 FLANDERS ROAD
THIRD FLOOR
WESTBOROUGH, MA 01581



ProTerra
DESIGN GROUP, LLC

4 Bay Road, Bldg. A
Suite 200
Hadley, MA 01035
Ph: (413)320-4918

FENWAY SC04 MA
POLE LOCATION: FULLERTON STREET
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Suite 200
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POLE LOCATION: FULLERTON STREET
FENWAY NEIGHBORHOOD BOSTON, MA 02215
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verizon✓

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DESIGN GROUP, LLC

4 Bay Road, Bldg. A Ph: (413)320-4918
Suite 200
Hadley, MA 01035

FENWAY SC04 MA
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FENWAY NEIGHBORHOOD BOSTON, MA 02215
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verizon✓

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4. SITE PLAN AND ELEVATIONS BASED ON SITE VISIT BY PROTERRA DESIGN GROUP, LLC ON 02/19/16.
5. APPROXIMATE PROPOSED LIGHT POLE COORDINATES BASED ON FAA-25 FIELD SURVEY PERFORMED USING GPS. FINAL COORDINATES AND ELEVATIONS OF LIGHT POLE MAY VARY FROM EXISTING AS SHOWN HEREON.
6. AERIAL IMAGERY BASED ON GOOGLE.
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STRUCTURAL NOTES

1. BEFORE ISSUANCE OF ATTACHMENT LICENSE, POLE OWNER HAS COMPLETED INDUSTRY-STANDARD STRUCTURAL ANALYSIS TO CONFIRM THAT POLE HAS STRUCTURAL CAPACITY TO SUPPORT THE ATTACHMENTS PROPOSED, BASED ON STANDARDS SPECIFIED IN NATIONAL ELECTRICAL SAFETY CODE (LATEST EDITION).
2. CONTRACTOR TO CONFIRM ANTENNA AND EQUIPMENT ATTACHMENT METHOD WITH STRUCTURAL ANALYSIS AND VERIZON WIRELESS PRIOR TO CONSTRUCTION.

FENWAY WEST SC02 MA

VERIZON LOCATION ID:

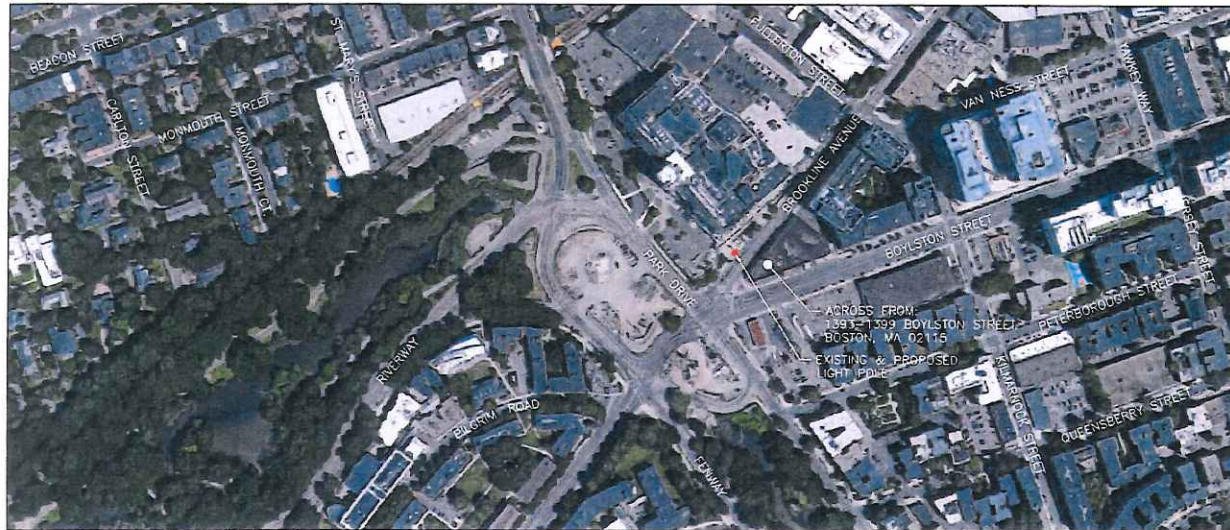
433633

POLE LOCATION:

**BROOKLINE AVENUE
FENWAY NEIGHBORHOOD
BOSTON, MA**

ACROSS FROM:

**1393-1399 BOYLSTON STREET
BOSTON, MA 02115**



Alberto
Approved, Street Lighting Division



KEY PLAN
SCALE: N.T.S.

1
LE-1

APPROXIMATE PROPOSED LATITUDE: N 42.343788° ± N 42° 20' 37.64" ±
POLE COORDINATES: LONGITUDE: W 71.102291° ± W 71° 06' 08.25" ±

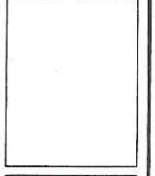
(SEE SITE NOTES NO. 5)

LEASE EXHIBIT



PREPARED BY:
ProTerra
DESIGN GROUP, LLC
Boylston, Bldg A
Salem, MA 01970
Ph: (413)320-4918

REV	DATE	DESCRIPTION	BY (CHK/APPD)
0	10/28/16	LEASE EXHIBIT	WVJ/TJM



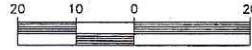
FENWAY WEST SC02 MA
BROOKLINE AVENUE
BOSTON, MA

LE-1



OVERVIEW PLAN
SCALE: 1"=20'

1
LE-2



LEASE EXHIBIT

verizon
118 FLANNERS ROAD
THIRD FLOOR
WESTBOROUGH, MA 01581

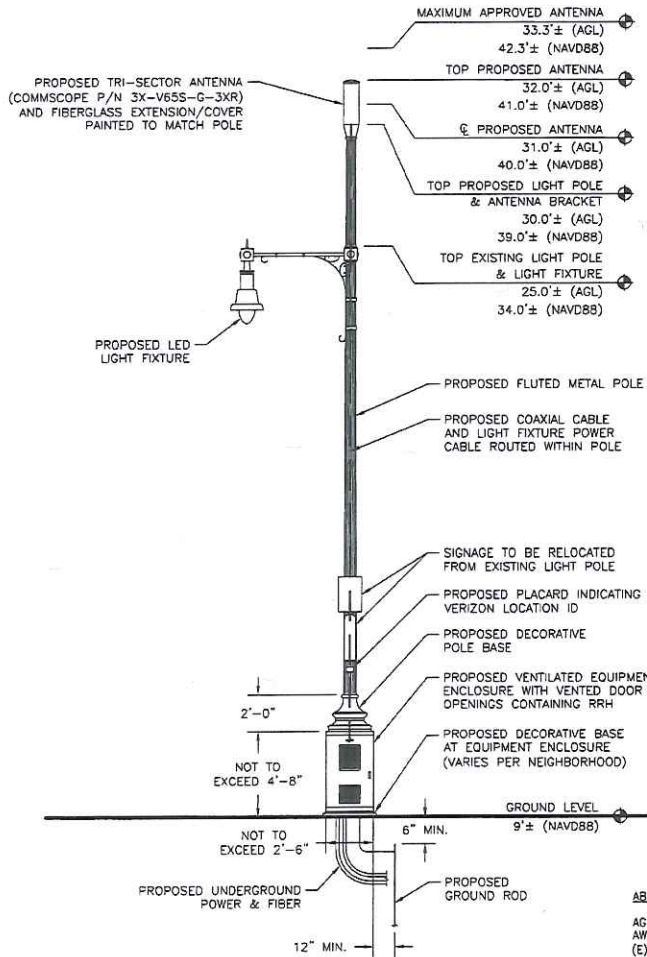
PREPARED BY:
ProTerra
DESIGN GROUP, LLC
4 Bay Road, Bldg A
Salem, MA 01970
Tel: (413)320-4918
Fax: (413)320-4918

REV	DATE	DESCRIPTION	BY	CHK	APP'D
0	10/28/18	LEASE EXHIBIT	JAY	TEST	JMK

REVISIONS

FENWAY WEST SQ02 MA
BROOKLINE AVENUE
BOSTON, MA

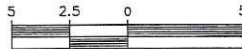
LE-2



ELEVATION

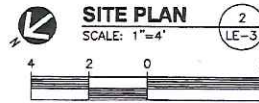
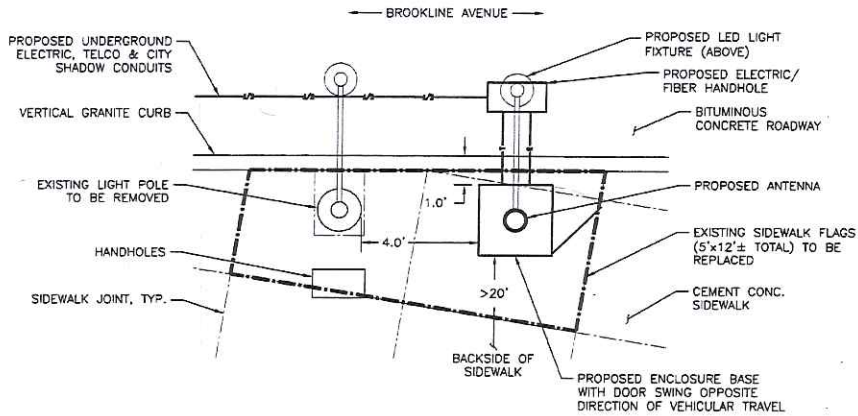
SCALE: 1"=5'

1
LE-3



ABBREVIATIONS:

- AGL ABOVE GROUND LEVEL
- AWS ADVANCED WIRELESS SERVICES
- (E) EXISTING
- NAVD88 NORTH AMERICAN VERTICAL DATUM 1988
- (P) PROPOSED
- (R) RELOCATE
- RGS RIGID GALVANIZED STEEL
- RRH REMOTE RADIO HEAD
- SAR-O SERVICE AGGREGATION ROUTER-OPTICAL
- V.I.F. VERIFY IN FIELD



SITE PLAN

SCALE: 1"=4'

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. POLE REPLACEMENT HEIGHTS WILL VARY BASED ON REQUIRED ANTENNA HEIGHTS REQUESTED BY VERIZON WIRELESS.
5. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H.
6. ANTENNA TO BE NO LARGER THAN 16"Wx40"H.
7. POLE REPLACEMENT INFO FOR ALL 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'.
8. PENDANT POLE IS A PRE-APPROVED LIGHT POLE TYPE KNOWN AS EXHIBIT X-3
9. VZW 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.

LEASE EXHIBIT



118 FLANDERS ROAD
WESTBOROUGH, MA 01581

PREPARED BY: **ProTerra**
DESIGN GROUP, LLC
4 Bay Road, Bldg A
Holliston, MA 01935
PH: (413) 320-4818

REV	DATE	DESCRIPTION	BY	CHK	APP'D
0	10/28/16	LEASE EXHIBIT	MM	TEJ	JMM



FENWAY WEST SC02 MA
BROOKLINE AVENUE
BOSTON, MA

LE-3

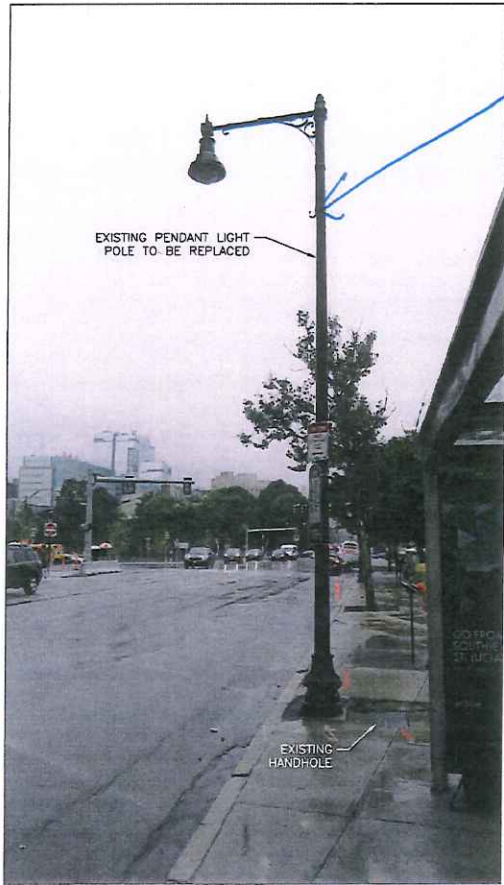
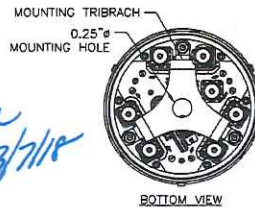


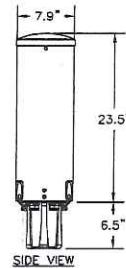
PHOTO DETAIL
SCALE: N.T.S.

1
LE-4

REF: PROTERRA 09/19/16



BOTTOM VIEW



SIDE VIEW

ANTENNA SPECIFICATIONS

MODEL: COMMSCOPE
3X-V655-G-3XR
ANTENNA DIMENSIONS: 7.9"Ø x 23.5"H
TOTAL DIMENSIONS: 7.9"Ø x 30"H
WEIGHT: 15.9 LBS. ±

ANTENNA DETAIL
SCALE: N.T.S.

2
LE-4

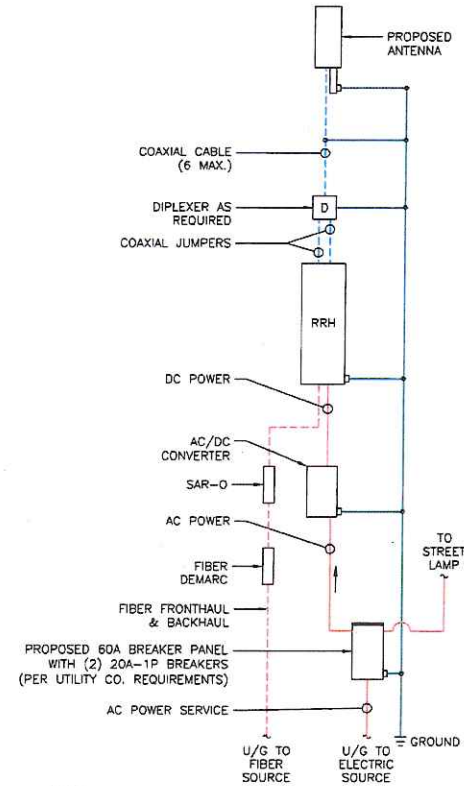


AWS RRH SPECIFICATIONS

DIMENSIONS: 25.8"H x 12"W x 7.3"D
WEIGHT: 67 LBS.

RRH DETAIL
SCALE: N.T.S.

3
LE-4



NOTES:

- CONTRACTOR TO FIELD TEST AND TIE 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.
- CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN WITH VERIZON WIRELESS RF ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL HAVE WRITTEN WORK AUTHORIZATION FROM POLE OWNER PRIOR TO COMMENCEMENT OF WORK.

GENERAL WIRING DIAGRAM
SCALE: N.T.S.

4
LE-4

LEASE EXHIBIT



PREPARED BY:
ProTerra
DESIGN GROUP, LLC
4 Boylston Bldg. A
Suite 200
Boston, MA 02116
Ph: (415) 320-4918

REVISIONS

REV	DATE	DESCRIPTION	BY (CHK/APP'D)	DATE
0	10/28/16	LEASE EXHIBIT	MAY/TEJ	JAM

FENWAY WEST SC02 MA
BROOKLINE AVENUE
BOSTON, MA

LE-4



ProTerra
DESIGN GROUP, LLC

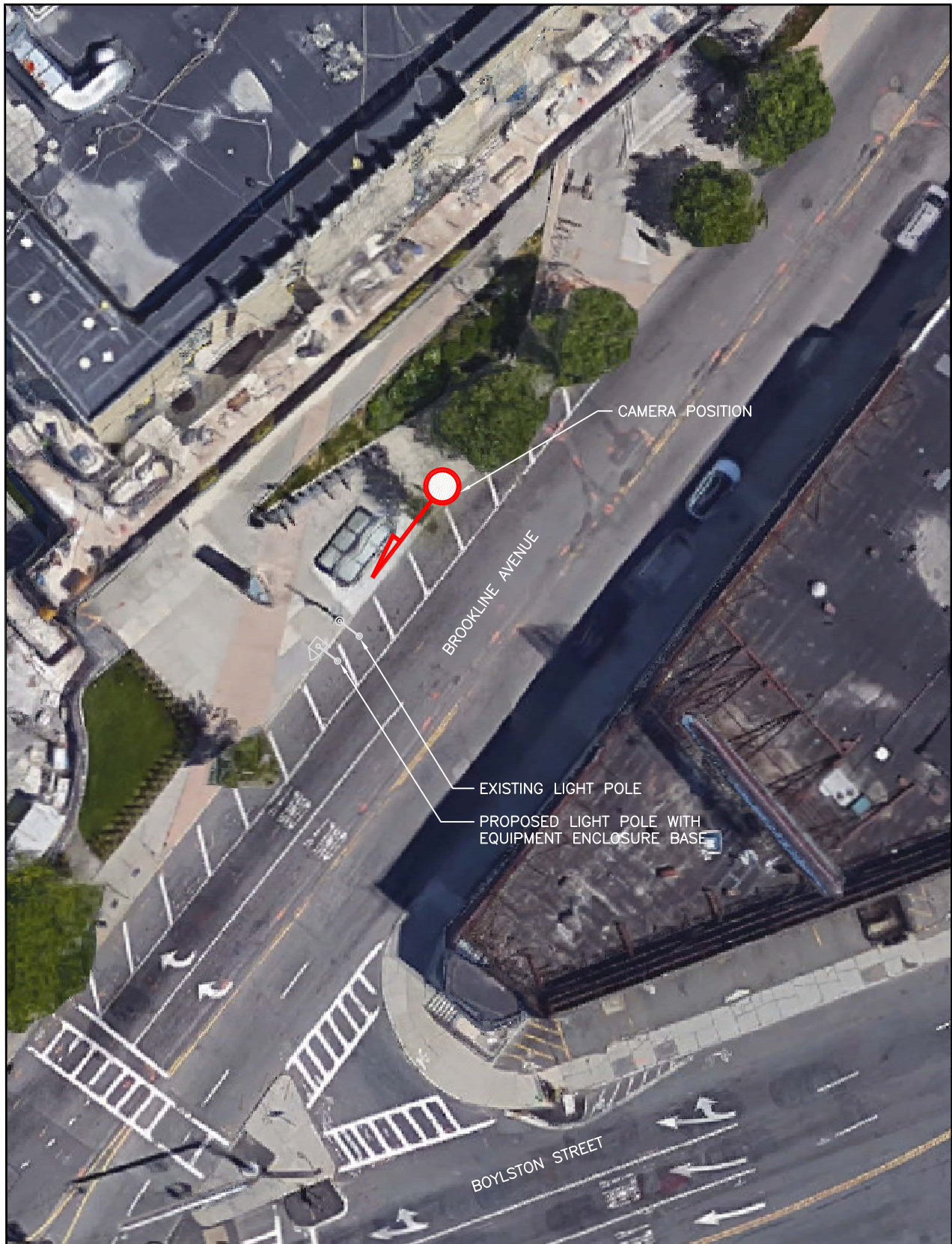
4 Bay Road, Bldg. A Suite 200
Hadley, MA 01035 Ph: (413)320-4918

FENWAY WEST SC02 MA
POLE LOCATION: BROOKLINE AVENUE
FENWAY NEIGHBORHOOD BOSTON, MA 02215
CAMERA LOCATION: 45.0'±

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118 FLANDERS ROAD
THIRD FLOOR
WESTBOROUGH, MA 01581



ProTerra
DESIGN GROUP, LLC

4 Bay Road, Bldg. A Suite 200
Hadley, MA 01035 Ph: (413)320-4918

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GENERAL NOTES

CODE SPECIFICATIONS

- ALL GENERAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE CODES AND LOCAL ORDINANCES, RULES, AND SPECIFICATIONS FOR INSTALLING LUMINAIRES 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 CMR 12.00).

GROUNDING & ANTENNA INSTALLATION

- 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 LUGS. 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.

CONSTRUCTION NOTES

- CONDUIT SHALL BE PVC, HEAVY WALL SUNLIGHT RESISTANT (6-7 PERCENT TITANIUM DIOXIDE BY WEIGHT), SCHEDULE 40 AS PER ANSI/NEMA TC 2-2003 UNLESS OTHERWISE NOTED.
- 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 GALVANIZING, 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.
- THIS DOCUMENT IS FOR ILLUSTRATION & LEASING PURPOSES ONLY.
- POWER AND TELCO TO COME FROM EXISTING OVERHEAD AND UNDERGROUND UTILITY SOURCES. SERVICE SOURCE TO BE FIELD DETERMINED.
- SITE PLAN AND ELEVATIONS BASED ON SITE VISIT BY PROTERRA DESIGN GROUP, LLC ON 09/25/17.
- APPROXIMATE PROPOSED LIGHT POLE COORDINATES BASED ON FAA-2C FIELD SURVEY PERFORMED USING GPS. FINAL COORDINATES AND ELEVATIONS OF LIGHT POLE MAY VARY AS SHOWN HEREON DEPENDING ON FIELD PLACEMENT.
- AERIAL IMAGERY BASED ON GOOGLE.
- THIS PLAN EXHIBIT IS SCHEMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION 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 VERIZON WIRELESS TO DETERMINE THE STRUCTURAL ADEQUACY OF THE PROPOSED INSTALLATION.
- CONTRACTOR SHALL CONFIRM ANTENNA AND EQUIPMENT ATTACHMENT METHOD CONFORMS WITH ALL MANUFACTURER SPECIFICATIONS AND VERIZON WIRELESS PRIOR TO CONSTRUCTION.

APPROVED, STREET LIGHTING DIVISION

ALLSTON SC05 MA

VERIZON LOCATION ID:

436872

POLE LOCATION:

**WESTERN AVENUE
BRIGHTON NEIGHBORHOOD
BOSTON, MA**

**LOCATED IN FRONT OF ADDRESS:
525 WESTERN AVENUE
BOSTON, MA 02135**



IMAGE SOURCE: GOOGLE EARTH 2017



KEY PLAN
SCALE: N.T.S.



APPROXIMATE PROPOSED POLE COORDINATES: LATITUDE: N 42.361765± N 42° 21' 42.36"±
LONGITUDE: W 71.144596± W 71° 08' 40.54"±

(SEE SITE NOTES NO. 5)

LEASE EXHIBIT



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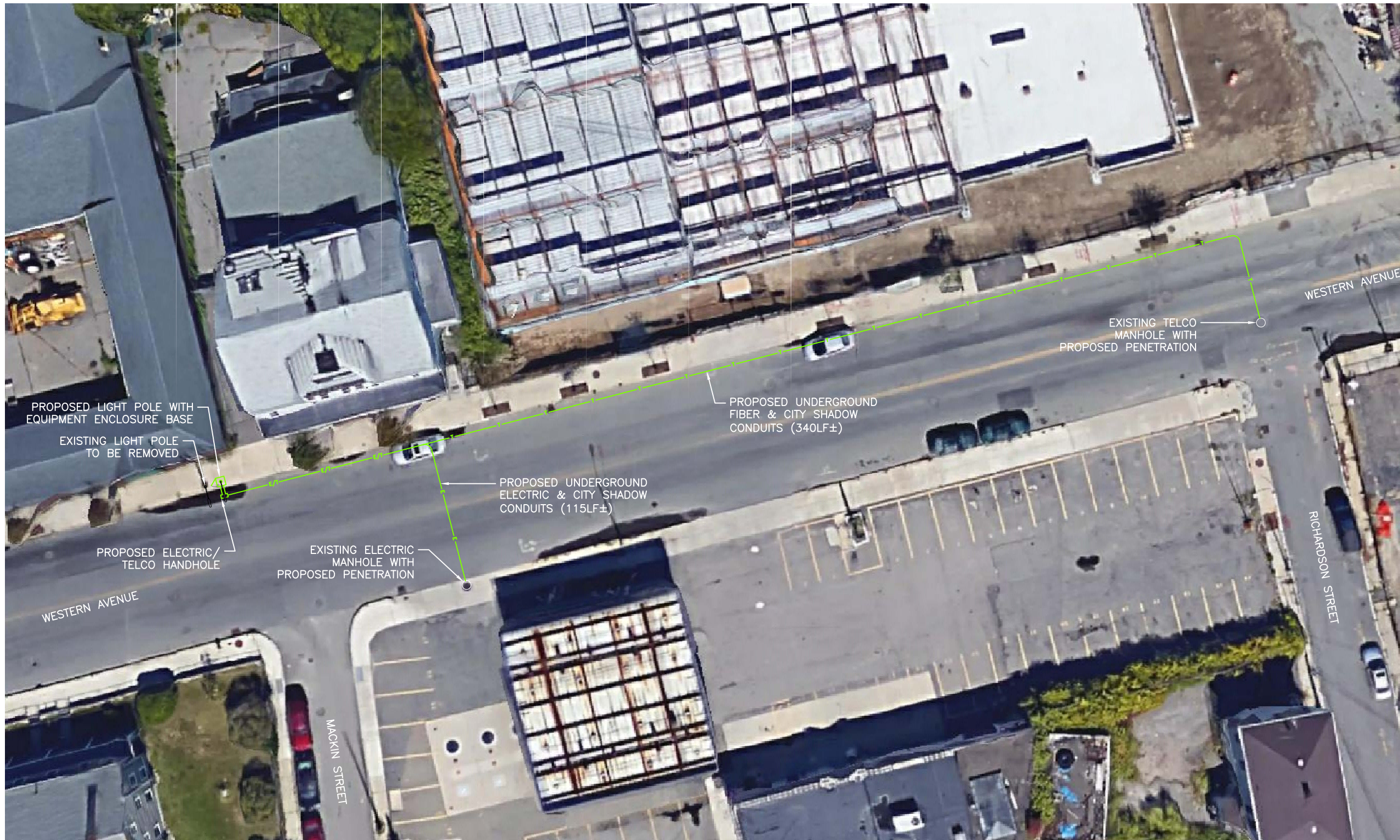
PREPARED BY:

REV	DATE	DESCRIPTION	BY		CHK/APP'D	
			JEB	TEU	JMM	JMM
0	10/03/17	LEASE EXHIBIT				
1	08/10/18	LEASE EXHIBIT REVISED	BAW	TEU	JMM	

REVISIONS

ALLSTON SC05 MA
WESTERN AVENUE
BOSTON, MA

LE-1



OVERVIEW PLAN

SCALE: 1"=30'

1
LE-2



LEASE EXHIBIT



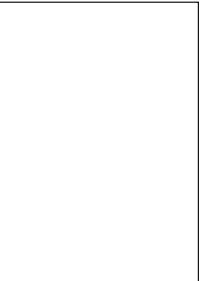
118 FLANDERS ROAD
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PREPARED BY:
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Suite 200
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1	08/10/18	LEASE EXHIBIT REVISED	BAW	TEU	JMM



ALLSTON SC05 MA
WESTERN AVENUE
BOSTON, MA

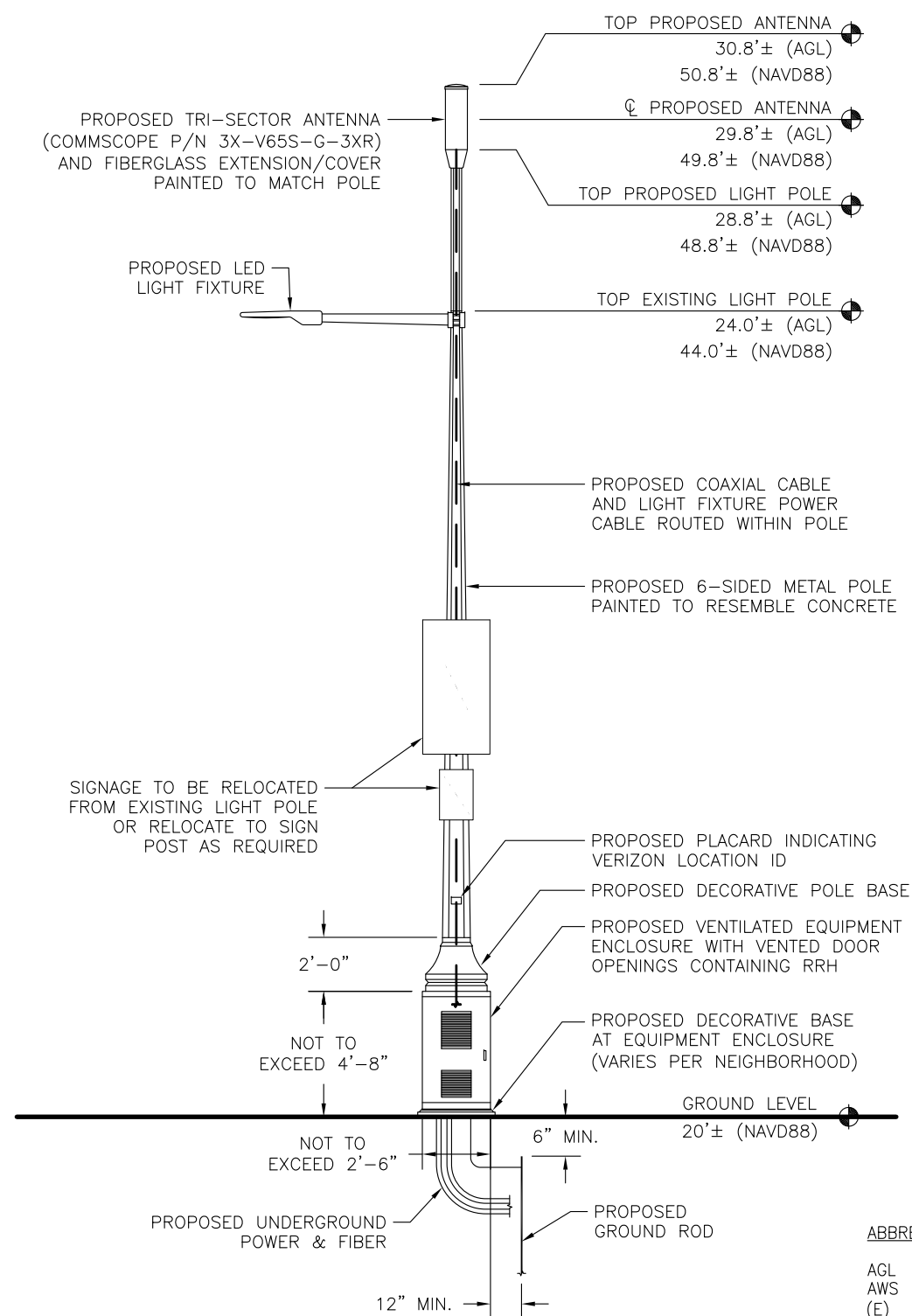
LE-2

REVISIONS

REV	DATE	DESCRIPTION	BY	CHK	APP'D
0	10/03/17	LEASE EXHIBIT	JEB TEJ	JMM	
1	08/10/18	LEASE EXHIBIT REVISED	BAW TEJ	JMM	

ALLSTON SC05 MA
WESTERN AVENUE
BOSTON, MA

LE-3



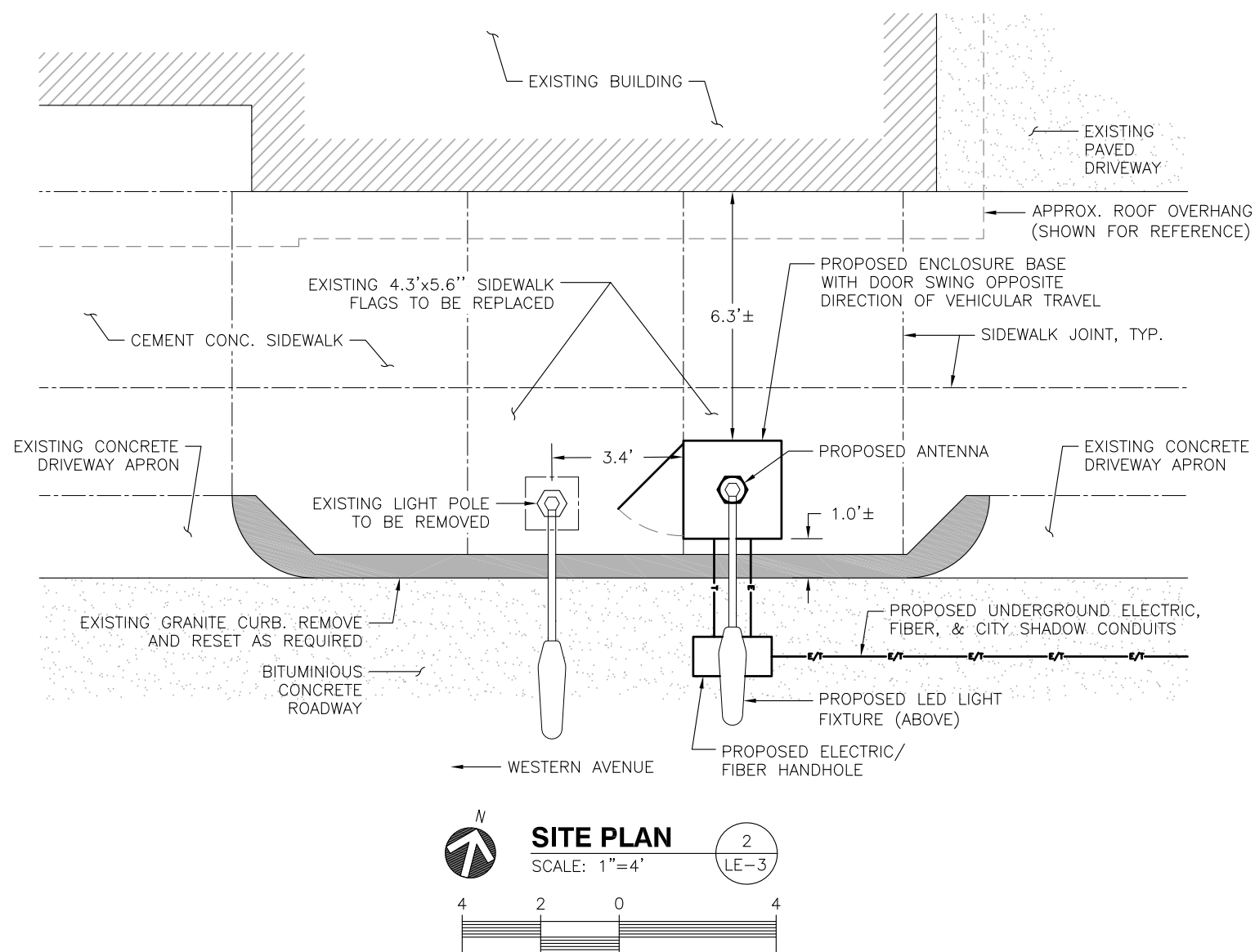
ELEVATION
SCALE: 1"=5'

1
LE-3



ABBREVIATIONS:

- AGL ABOVE GROUND LEVEL
- AWS ADVANCED WIRELESS SERVICES
- (E) EXISTING
- NAVD88 NORTH AMERICAN VERTICAL DATUM 1988
- (P) PROPOSED
- (R) RELOCATE
- RGS RIGID GALVANIZED STEEL
- RRH REMOTE RADIO HEAD
- SAR-0 SERVICE AGGREGATION ROUTER-OPTICAL
- V.I.F. VERIFY IN FIELD



SITE PLAN
SCALE: 1"=4'

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. CITY EXHIBIT X APPROVALS INCLUDE THE OPTION OF INSTALLING AN ANTENNA UP TO 16"Ø X 40" TALL.
5. TOP OF PROPOSED LIGHT POLE ELEVATION SHOWN TO INCLUDE INTEGRATED CONCEALMENT SHROUD AND ASSEMBLY.
6. RRH TO BE NO LARGER THAN 16"Wx12"Dx40"H AND WILL NOT PROTRUDE FROM POLE MORE THAN 1'-6".
7. POLE REPLACEMENT INFO FOR LIGHT POLES:
 14' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 16.8'.
 19' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 22.8'.
 24' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 28.8'.
 29' EXISTING POLE TO BE REPLACED WITH A NEW POLE WITH A MAX HEIGHT OF 34.8'.
8. VZW WILL PLACE SMALL PLACARD ON POLE IDENTIFYING OWNERSHIP/CONTACT INFORMATION.
9. LED LIGHT & LUMINAIRE ARM WILL BE AT THE SAME APPROXIMATE HEIGHT AS EXISTING.
10. PROPOSED LIGHTING WILL CONFORM TO THE CITY OF BOSTON'S LIGHTING STANDARDS.
11. IF THE EXISTING LIGHT POLE IS TO BE REPLACED WITH PROPOSED LIGHT POLE AT THE SAME LOCATION, SUPPLEMENTAL NIGHT-TIME STREET LIGHTING WILL BE REQUIRED DURING CONSTRUCTION UNTIL PROPOSED LIGHT FIXTURE IS FUNCTIONAL.

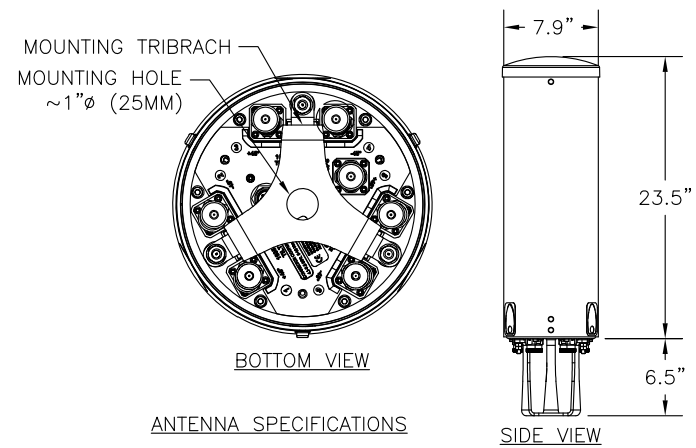


REF: PROTERRA 09/25/17

PHOTO DETAIL

SCALE: N.T.S.

1
LE-4



ANTENNA SPECIFICATIONS

MODEL: COMMSCOPE
3X-V65S-G-3XR
ANTENNA DIMENSIONS: 7.9"Ø x 23.5"H
TOTAL DIMENSIONS: 7.9"Ø x 30"H
WEIGHT: 15.9 LBS. ±

ANTENNA DETAIL

SCALE: N.T.S.

2
LE-4



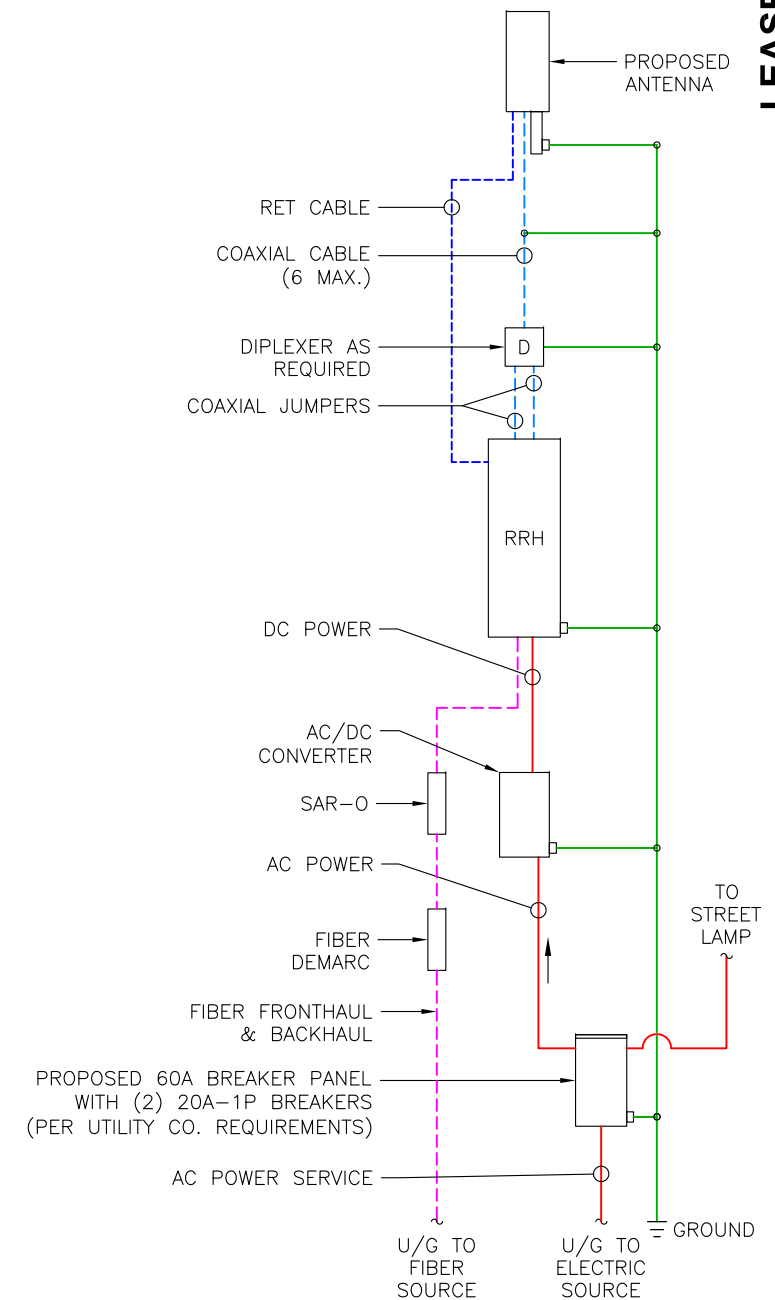
AWS RRH SPECIFICATIONS

DIMENSIONS: 25.8"H x 12"W x 7.3"D
WEIGHT: 67 LBS.

RRH DETAIL

SCALE: N.T.S.

3
LE-4



NOTES:

- CONTRACTOR TO FIELD TEST AND TIE 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.
- CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN WITH VERIZON WIRELESS RF ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL HAVE WRITTEN WORK AUTHORIZATION FROM POLE OWNER PRIOR TO COMMENCEMENT OF WORK.

GENERAL WIRING DIAGRAM

SCALE: N.T.S.

4
LE-4

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REVISIONS

ALLSTON SC05 MA
WESTERN AVENUE
BOSTON, MA

LE-4



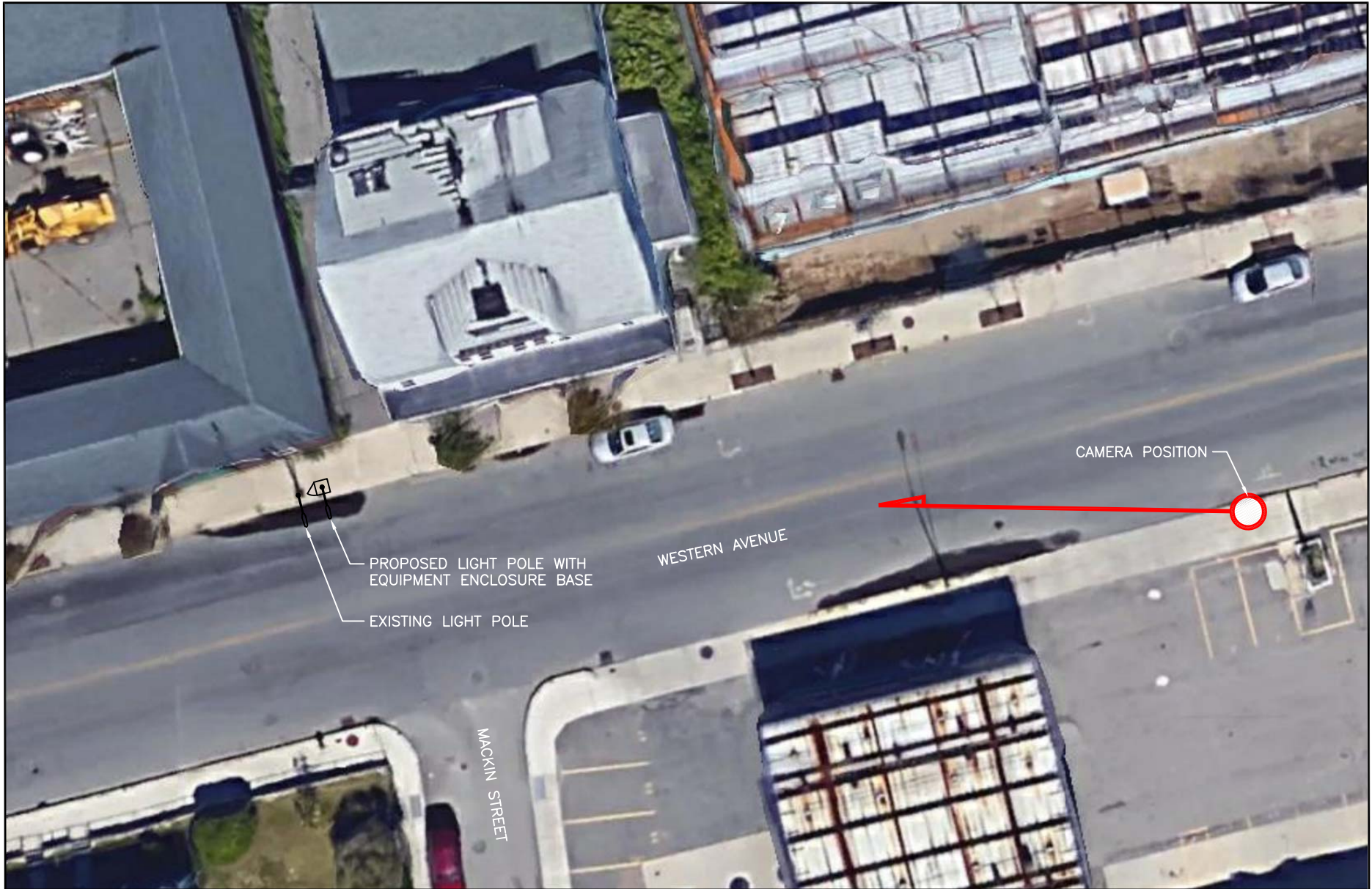
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ALLSTON SC05 MA
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CAMERA LOCATION: 175.0'±

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