

AT&T ID / EXTENET ID:
mmBOS1037/NE-MA-BSTN5G01-01037

LATITUDE / LONGITUDE:
42.349866° / -71.093429°

SITE ADDRESS:
587 BEACON ST
CITY, STATE, ZIP:
BOSTON, MA 02215

Location and Design Approved
Boston Public Works
Street Lighting Department

By: _____

Date: _____



**CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
72 HOURS NOTICE REQUIRED.
ENTER 1-888-DIG-SAFE**

NOTE:

GENERAL CONTRACTOR IS REQUIRED TO CROSS CHECK COORDINATES, EXHIBIT PHOTO, AERIAL PHOTO AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND, CONCERNS OR QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO ASSIGNED EXTENET PROJECT MANAGER.



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

LOCATION:
587 BEACON ST
BOSTON, MA 02215
SUFFOLK COUNTY

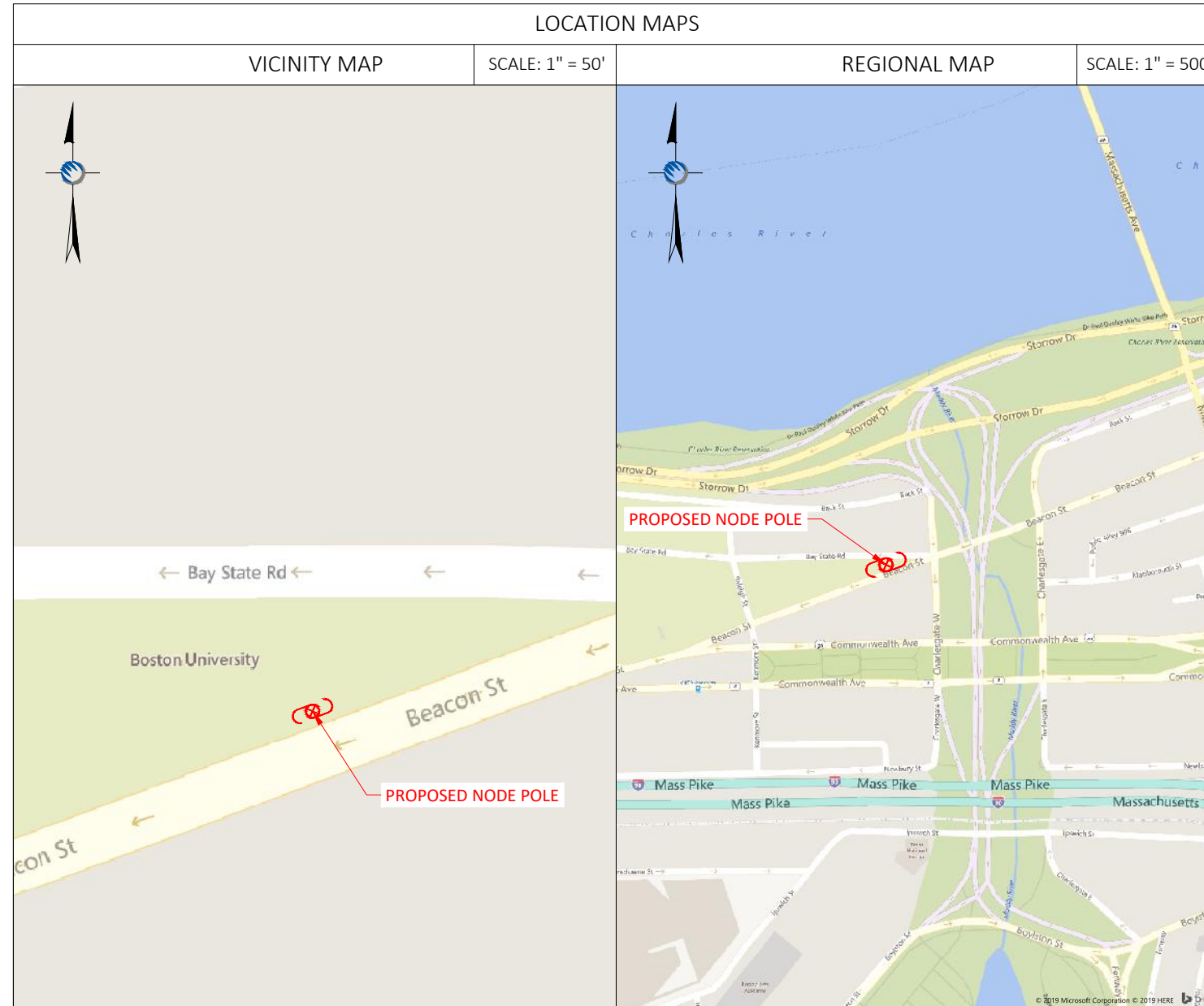
P.E. STAMP AREA:

GENERAL NOTES
THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE.

SITE INFORMATION	
CRAN ID:	mmBOS1037
EXTENET NODE ID:	NE-MA-BSTN5G01-01037
LATITUDE:	42.349866°
LONGITUDE:	-71.093429°
SITE ADDRESS:	587 BEACON ST
CITY, STATE ZIP:	BOSTON, MA 02215
COUNTY:	SUFFOLK
JURISDICTION:	DCR ROADS
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	EXTENET SYSTEMS 876 HAMMOND ST CHESTNUT HILL, MA 02467 (617) 232-4154

ENGINEER
RICK ANGELINI
3030 WARRENVILLE RD
SUITE 340
LISLE, IL 60532
NOC: (866) 892-5327

DO NOT SCALE DRAWINGS
CONTRACTORS SHALL VERIFY ALL PLANS, (EX.) DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



PROJECT DESCRIPTION
INVOLVING INSTALLMENT:
THESE PLANS REPRESENT A PORTION OF A PROPOSED SMALL CELL BUILD INVOLVING THE INSTALLMENT OF AN ANTENNA AND RADIO EQUIPMENT ON AN EXISTING WOODEN UTILITY OR REPLACEMENT METAL STREETLIGHT POLE.

CODES
2019 INTERNATIONAL BUILDING CODE
NATIONAL ELECTRIC SAFETY CODE
TIA/EIA-222-G-2 OR LATEST EDITION
LOCAL BUILDING / PLANNING CODE

DRAWING INDEX	
SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
A-1	SITE PLAN & EXHIBIT PHOTO
A-2	ELEVATIONS
A-3	ELEVATIONS
D-1	5G ANTENNA/RADIO DETAILS
D-2	4G ANTENNA DETAILS
D-3	4G RADIO SHROUD DETAILS
D-4	FOUNDATION DETAILS
D-5	GROUNDING & WIRING DIAGRAMS
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES

ORIGINAL PLAN:	AS NOTED
SCALE:	AS NOTED
DRAWN BY:	MS
PLAN ORIG. DATE:	07/26/19

REVISIONS:			
REV	DESCRIPTION	BY	DATE
1	UPDATE ADDRESS	MS	01/20/21

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TITLE SHEET
SHEET NUMBER:
T-1

NOTE:
EXHIBIT PHOTO IS FOR
REFERENCE USE ONLY AND
SHOULD NOT BE USED FOR
CONSTRUCTION PURPOSES.



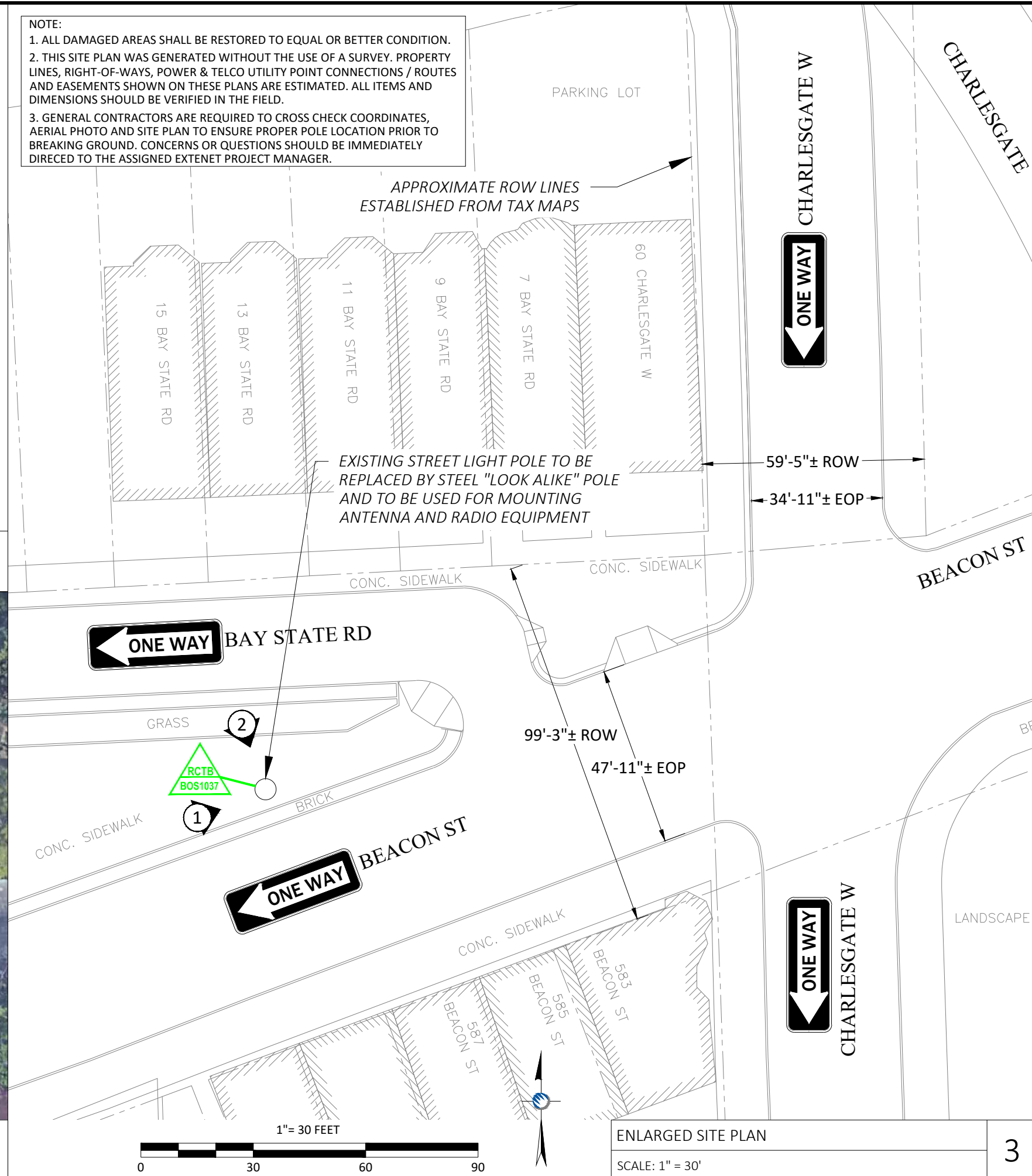
PROPOSED NODE POLE

EXHIBIT PHOTO

SCALE: NOT TO SCALE

1

NOTE:
1. ALL DAMAGED AREAS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
2. THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS / ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.
3. GENERAL CONTRACTORS ARE REQUIRED TO CROSS CHECK COORDINATES, AERIAL PHOTO AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND. CONCERNS OR QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO THE ASSIGNED EXTENET PROJECT MANAGER.



ENLARGED SITE PLAN

SCALE: 1" = 30'

3

PLANS PREPARED FOR:

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PLANS PREPARED BY:

Innovative Thinking. Engineered Solutions.
21 OXFORD RD
MANSFIELD, MA 02048
www.ucseeng.com 1-508-337-7600

LOCATION:

587 BEACON ST
BOSTON, MA 02215

SUFFOLK COUNTY

P.E. STAMP AREA:

DRAWING NOTES:

ORIGINAL PLAN:	AS NOTED
SCALE:	AS NOTED
DRAWN BY:	MS
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SITE ADDRESS:
587 BEACON ST

SHEET TITLE:
SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER:
A-1

AERIAL SITE LOCATION

SCALE: 1" = 60'

2

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DRAWINGS NOTES:

NOTE 1:
40" MIN. WORKER SAFETY ZONE
BETWEEN LOWEST POWER & HIGHEST
COMMUNICATIONS CABLE
IN ACCORDANCE WITH NESC REGULATIONS.

NOTE 2:
PROPOSED FIBER TO BE INSTALLED BY OTHERS.

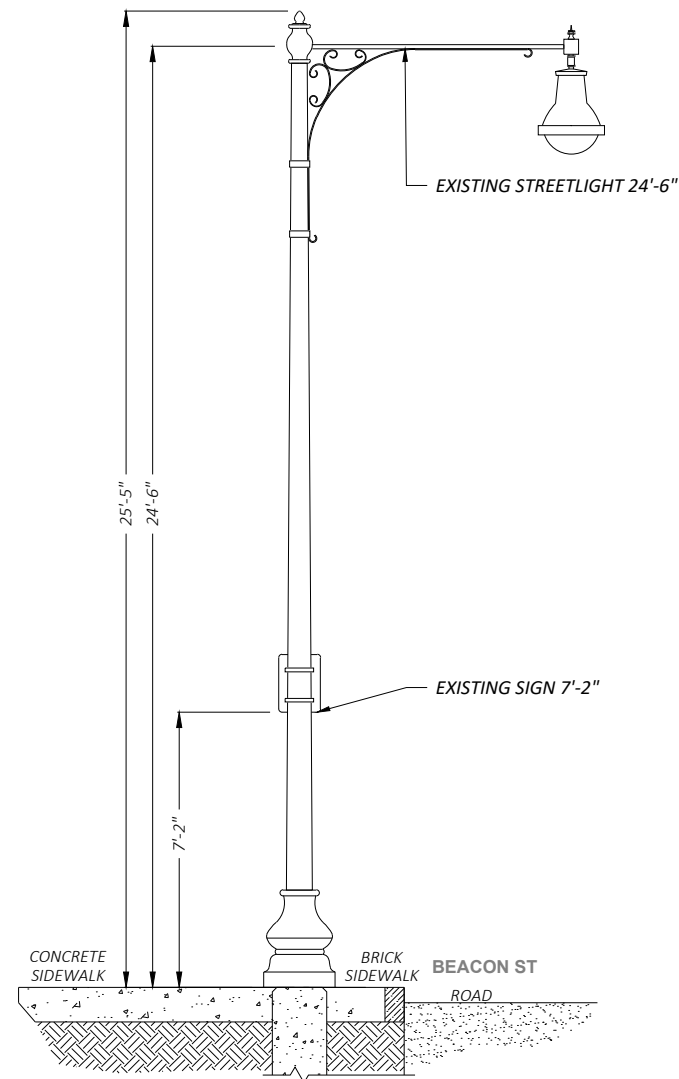
NOTE 3:
PROPOSED EQUIPMENT TO BE PAINTED TO BLEND
WITH POLE.

NOTE 4:
FCC MANDATED SIGNAGE TO BE ATTACHED TO POLE.

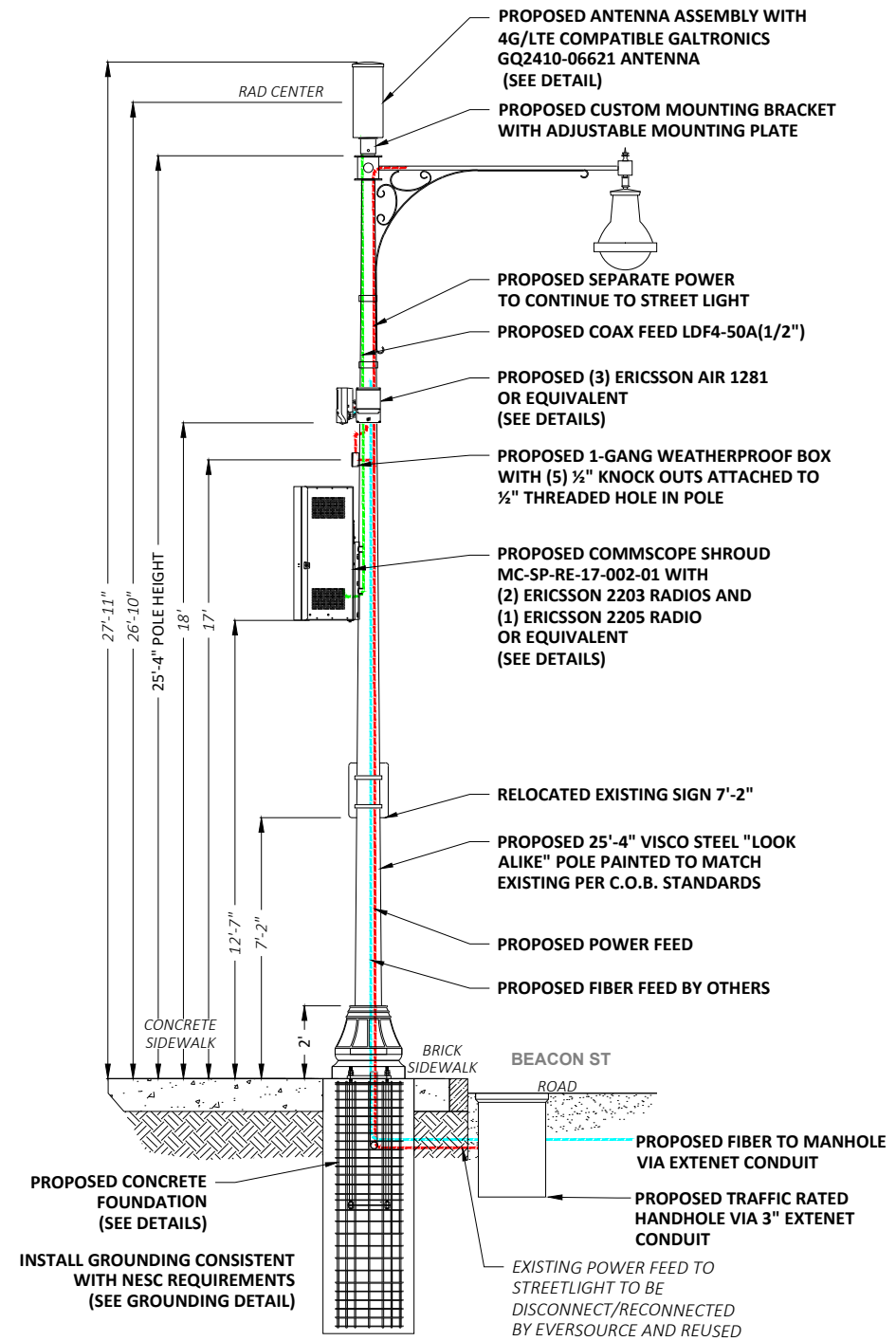
NOTE 5:
PROPOSED EQUIPMENT SHALL BE INSTALLED NO
HIGHER THAN 30" BELOW TELEPHONE UTILITY LINES.

NOTE:
REPLACE EXISTING POLE
WITH NEW 25'-4" STEEL
"LOOK ALIKE" POLE

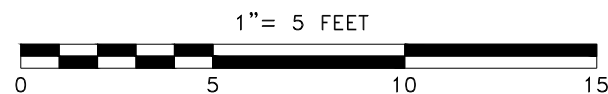
**ABSOLUTELY NO FIELD CUTTING
OR CORING OF METAL POLES TO
BE ALLOWED**



① EXISTING PROFILE - SIDE VIEW
LOOKING NORTHEAST ALONG BEACON ST



① PROPOSED PROFILE - SIDE VIEW
LOOKING NORTHEAST ALONG BEACON ST



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587 BEACON ST

SHEET TITLE:
POLE ELEVATIONS

SHEET NUMBER:

A-2

1/20/21 \\MANV-FILE01\Files\Engineering\Extenet_Systems\NE-MA-BSTN5G01-ATT 37\AA - AUTOCAD\NPP\NE-MA-BSTN5G01-01037.dwg

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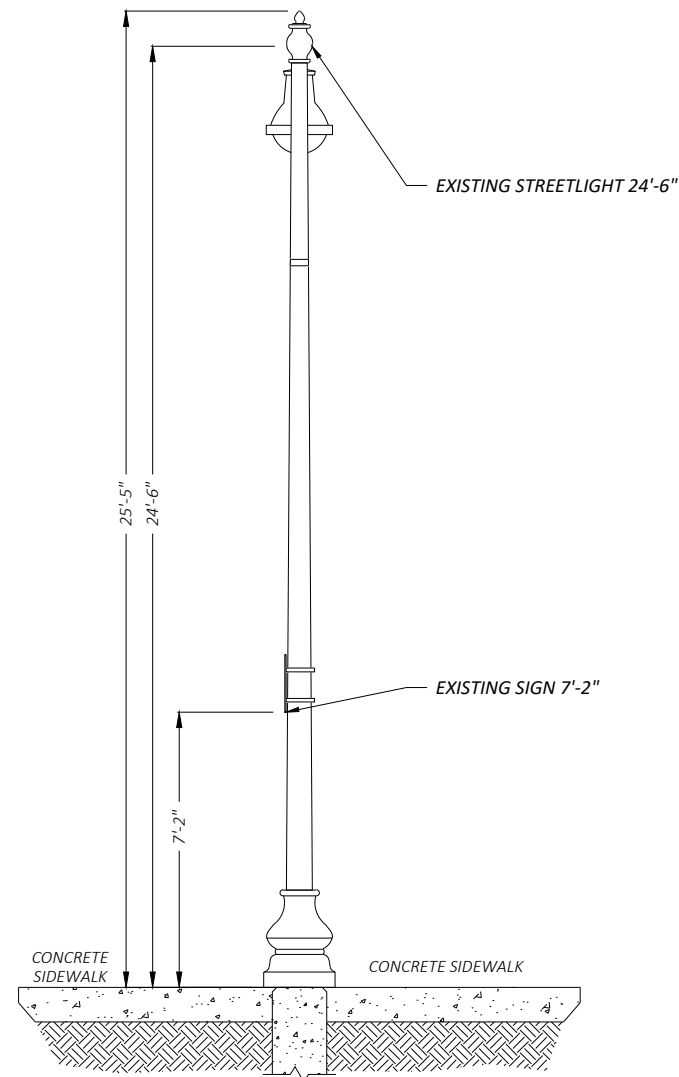
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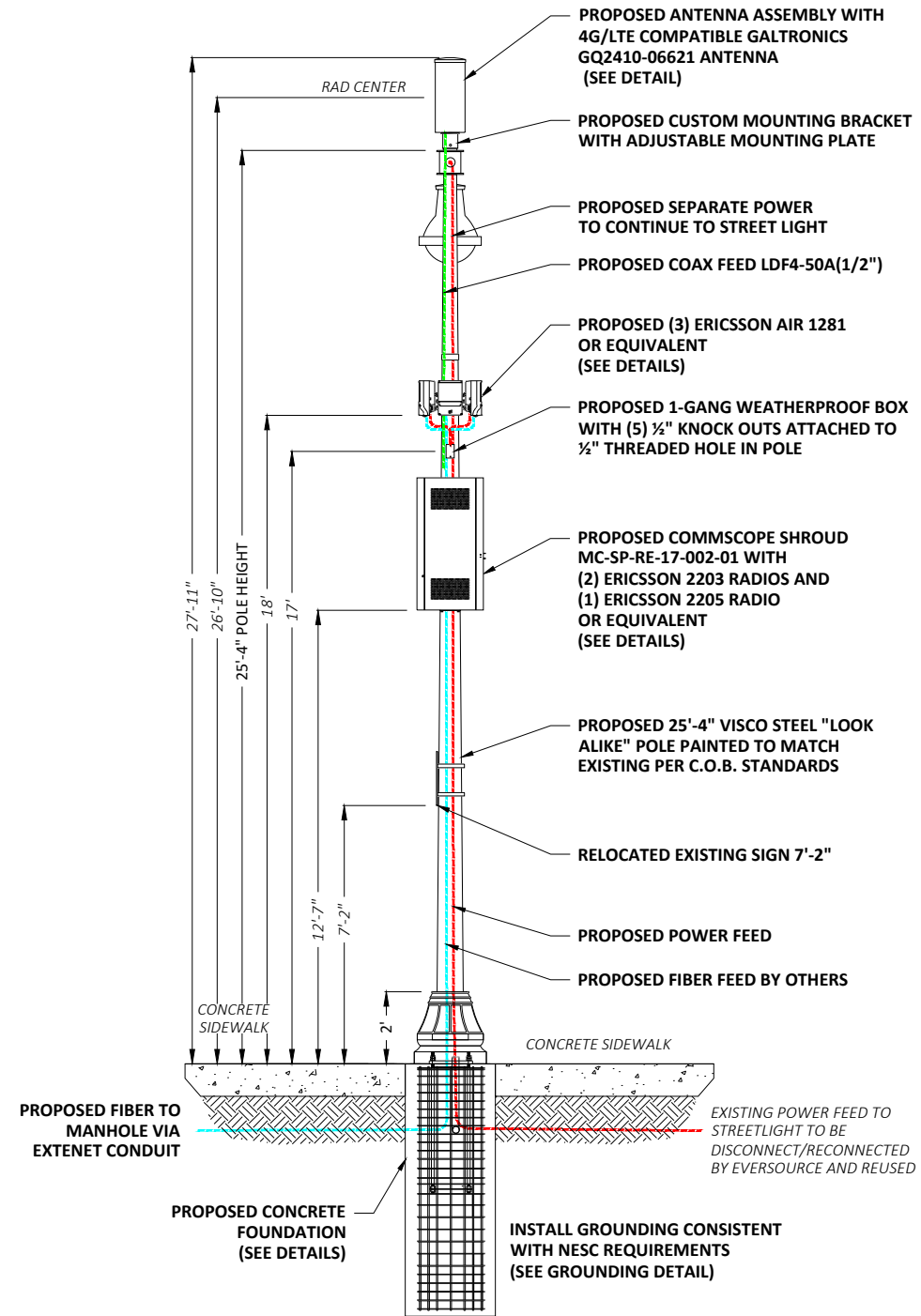
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NOTE:
REPLACE EXISTING POLE
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"LOOK ALIKE" POLE

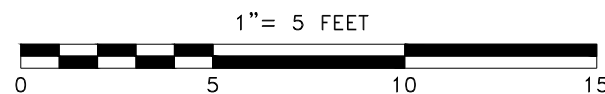
**ABSOLUTELY NO FIELD CUTTING
OR CORING OF METAL POLES TO
BE ALLOWED**



② EXISTING PROFILE - REAR VIEW
LOOKING SOUTHEAST TOWARD BEACON ST



② PROPOSED PROFILE - REAR VIEW
LOOKING SOUTHEAST TOWARD BEACON ST



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POLE ELEVATIONS

SHEET NUMBER:
A-3

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AIR 1281

General

OOB Spurious Emission	FCC and 3GPP compliant
Number of beams	4x400MHz, 2x800MHz,
Max total EIRP	56/53 dBm
OBW	400/800 MHz
IBW	Full band

Interface

Fronthaul IF	C1 CPRI, 10 and 25Gbps
Power Supply	100-250VAC, -48VDC
Typ. Power Consumption	< 150 W

Mechanical

Installation type	Pole/Wall/Strand mounted
Dimensions	~270x200x130
Weight	8.4 kg
Operating temperature	-40°C to +55°C
IP Class	IP65



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 SHEET TITLE:
 ANTENNA/RADIO DETAILS

SHEET NUMBER:
D-1

ERICSSON AIR 1281 ANTENNA INTEGRATED RADIO
 SCALE: NOT TO SCALE

1

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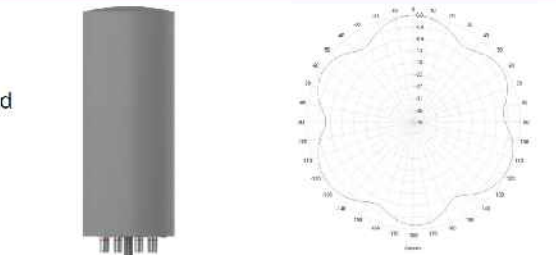


24"x 10" Pseudo Omni 10-Port Canister Antenna [1695-2360, 3550-3700 and 5150-5925 MHz]

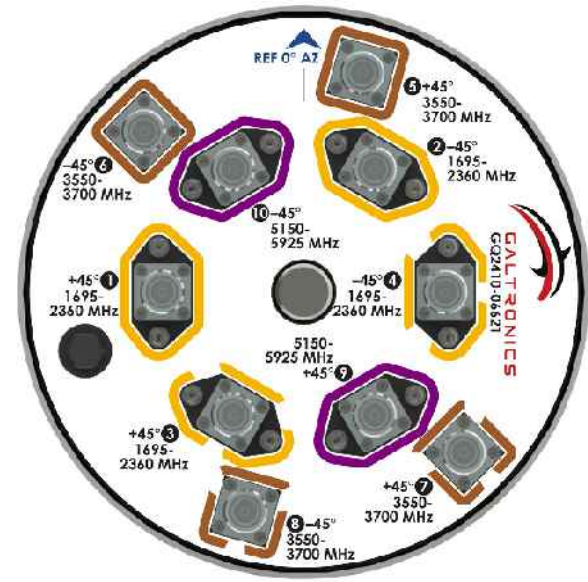
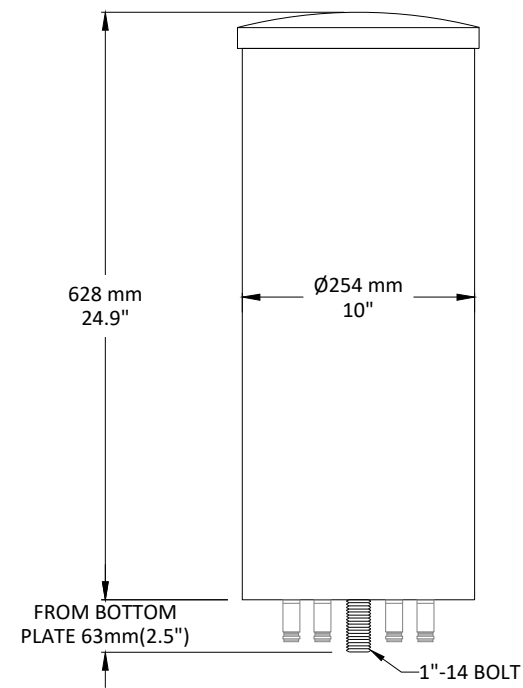
GQ2410-06621

Description:

- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells.
- 4x ports for AWS/PCS/WCS Band 1695-2360 MHz
- 4x ports for CBRS Band 3550-3700 MHz
- 2x ports for UNII Band 5150-5925 MHz*



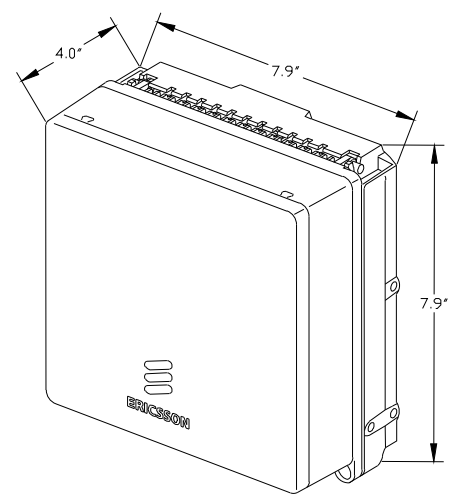
1695-2360, 3550-3700 and 5150-5925 MHz Pseudo Omni Canister Antenna



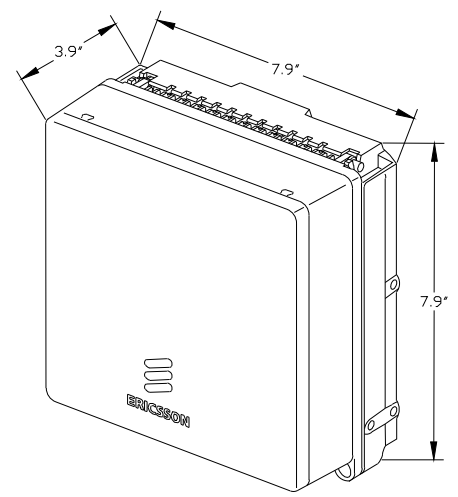
GALTRONICS GQ2410-06621 ANTENNA
SCALE: NOT TO SCALE

1

ERICSSON RADIO 2205 WITH COVER

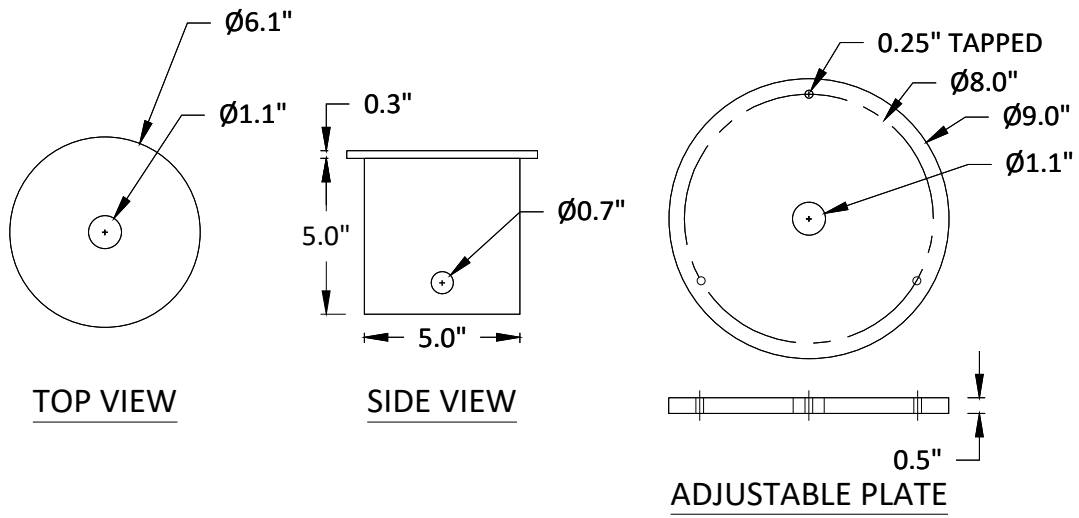


ERICSSON RADIO 4402 WITH COVER



ERICSSON 2203 & 2205 RADIOS WITH COVER
POLE MOUNT REMOTE UNIT
SCALE: NOT TO SCALE

2



CUSTOM MOUNTING BRACKET
SCALE: NOT TO SCALE

3

PLANS PREPARED FOR:

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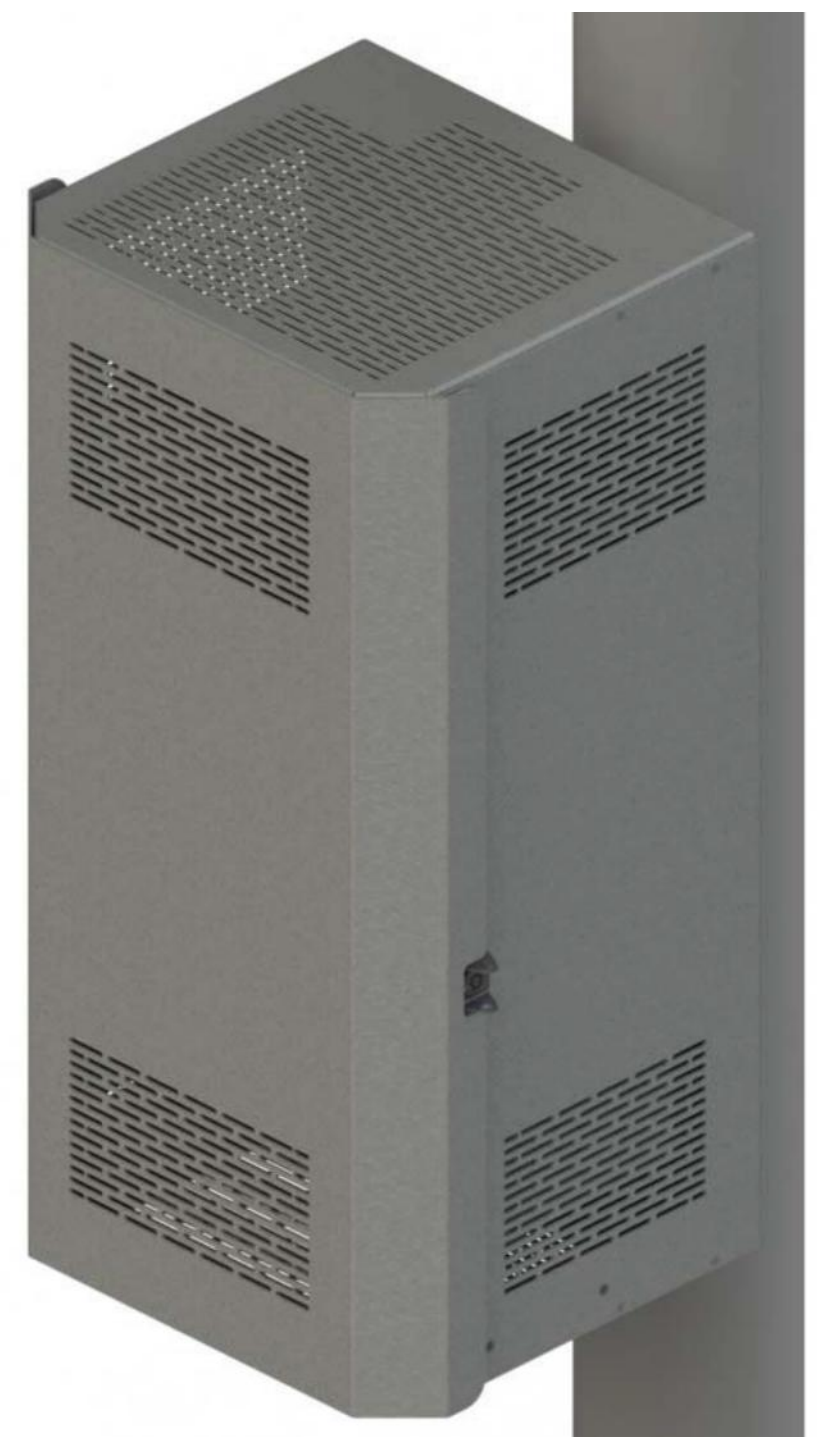
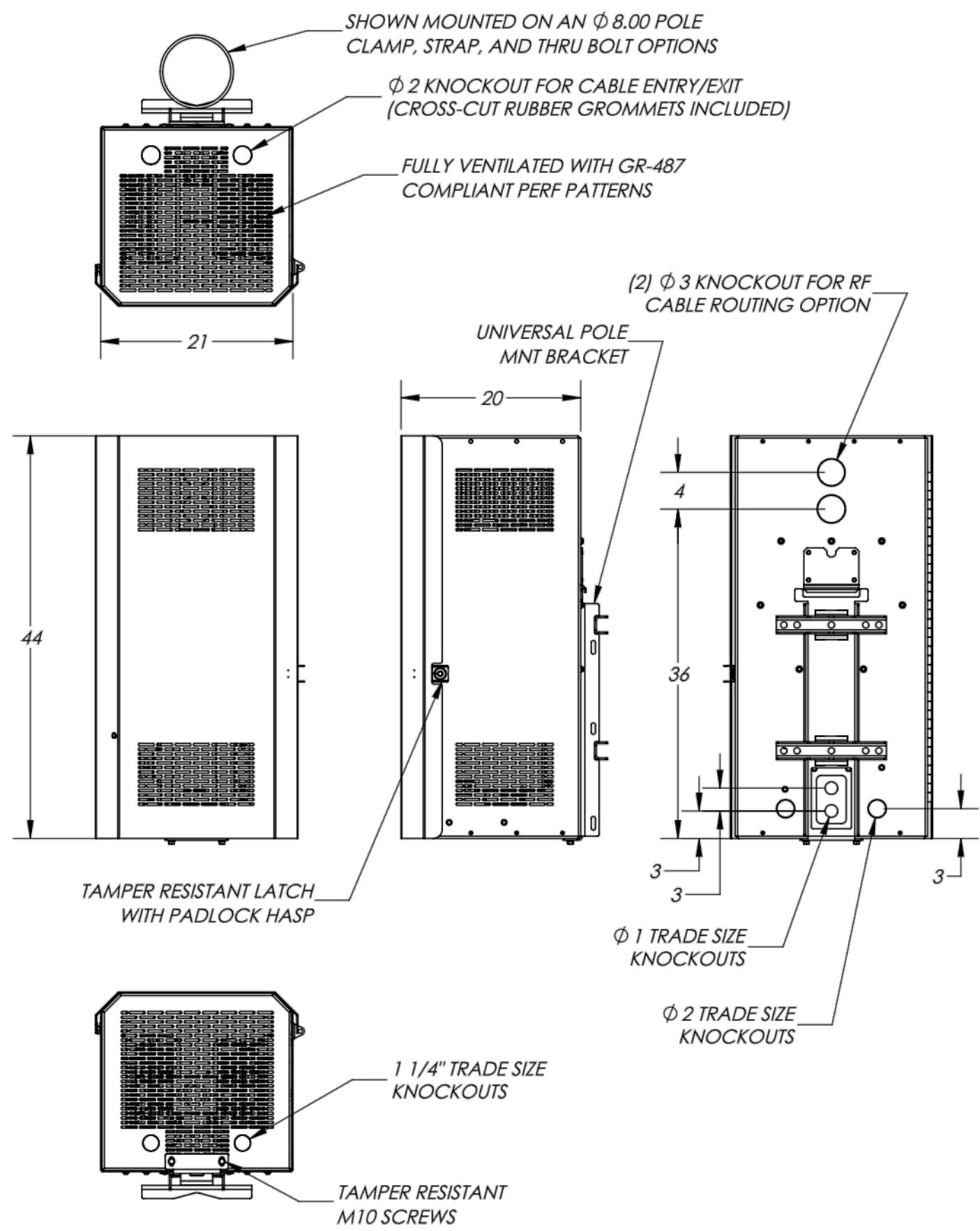
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SITE ADDRESS:
587 BEACON ST
SHEET TITLE:
4G ANTENNA DETAILS

SHEET NUMBER:

D-2

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1/20/21 \\MANYV-FILED1\Files\Engineering\Extenet-Systems\NE-MA-BSTN5G01-ATT 37\AAA - AUTOCAD\NPP\NE-MA-BSTN5G01-01037.dwg



MICRO RADIO CONCEALMENT ENCLOSURE - 10.7 CU FT
SCALE: NOT TO SCALE

1

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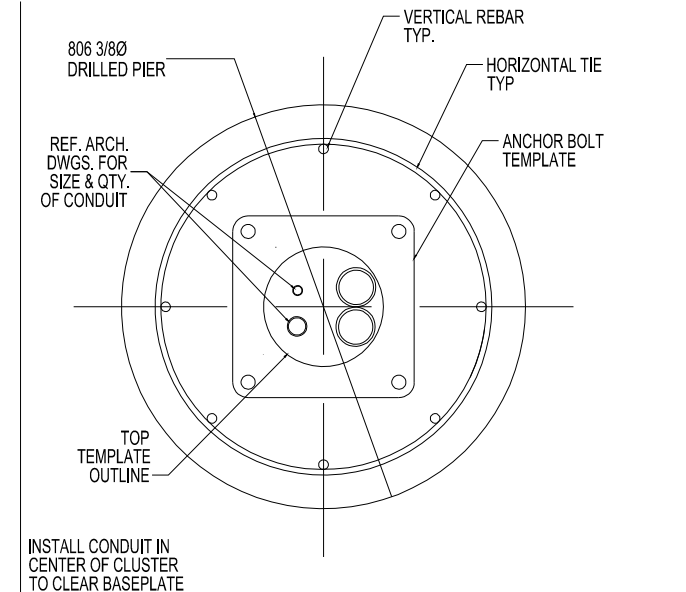
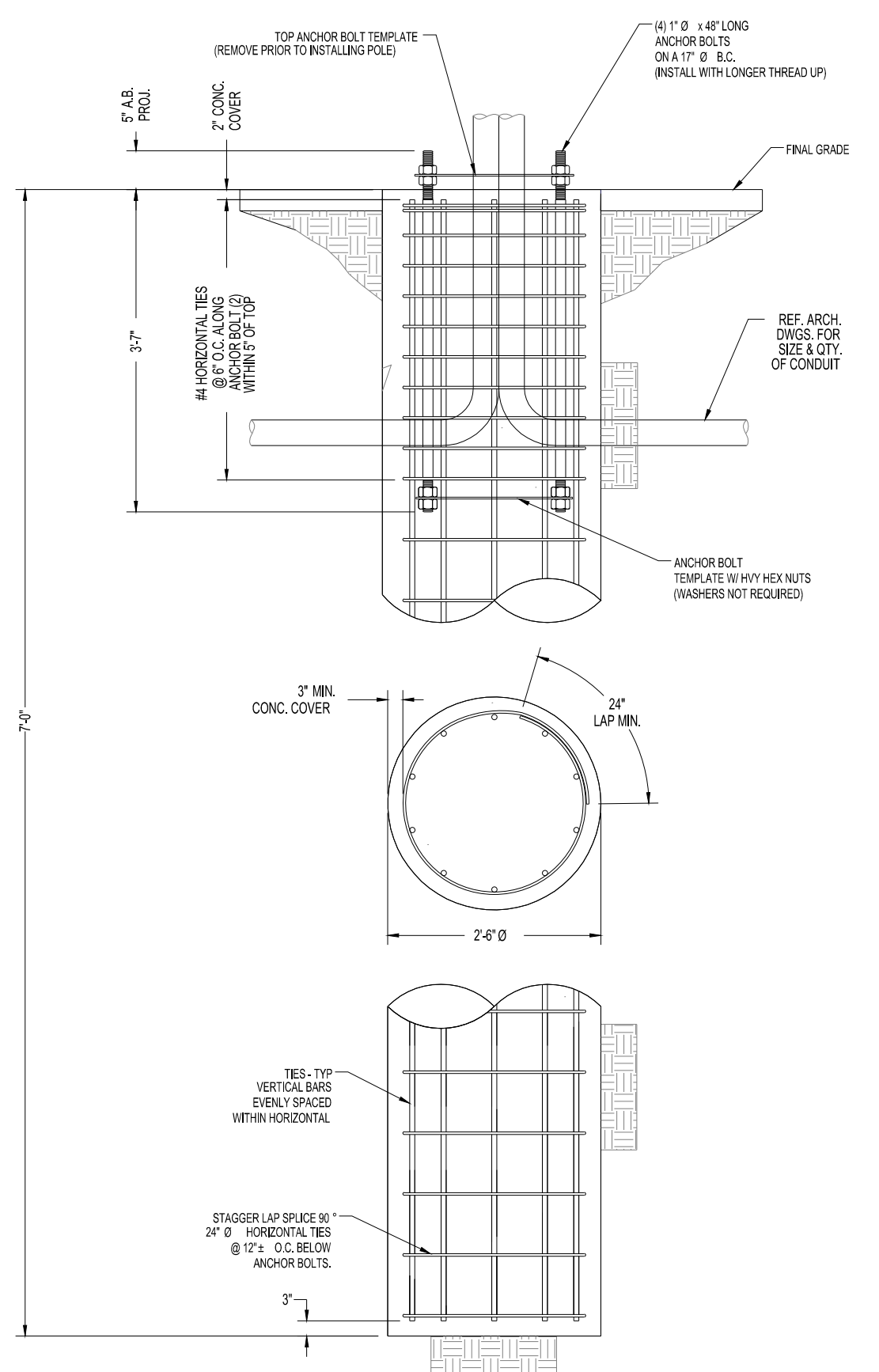
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SHEET TITLE:
4G RADIO SHROUD DETAILS

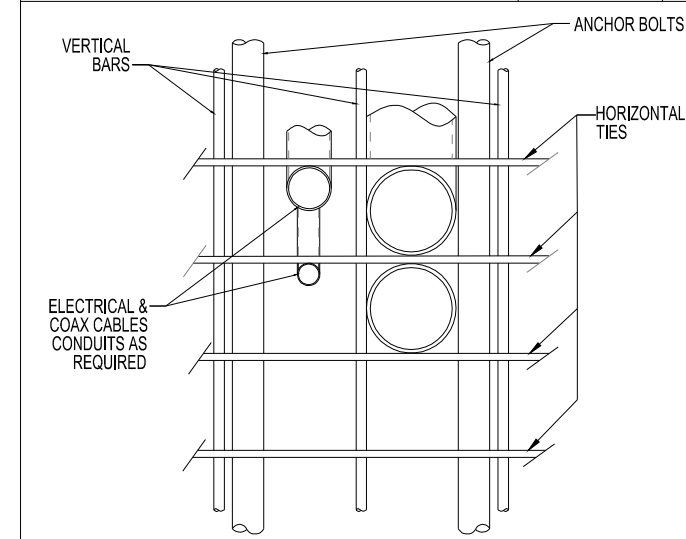
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D-3

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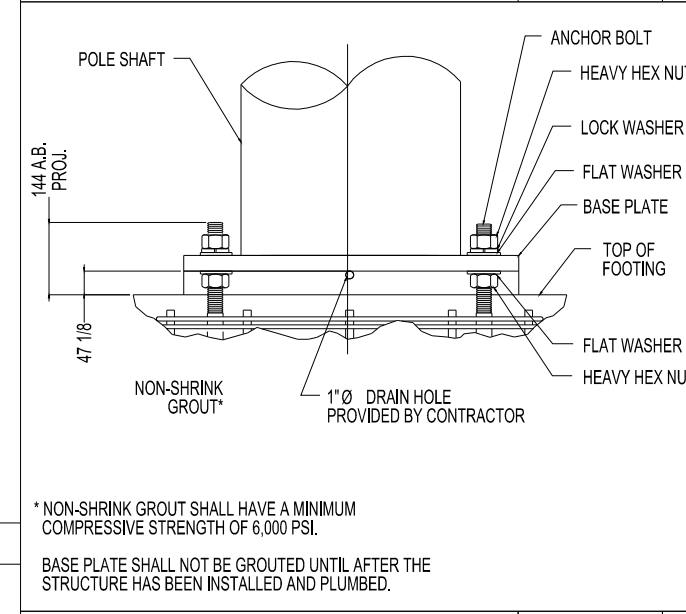


CONDUIT DETAIL @ PIER SECTION SCALE: NONE 1



* ADJUST REBAR AS NEEDED TO ACCOMMODATE CONDUIT. SEE REINFORCEMENT SUMMARY FOR SIZE, QUANTITY AND LOCATION OF VERTICAL BARS AND HORIZONTAL TIES.

CONDUIT DETAIL SCALE: NONE 2



BASE GROUTING DETAIL SCALE: NONE 3

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND FACILITIES PRIOR TO EXCAVATING ANY MATERIALS.
- CONTRACTOR SHALL INSPECT AND REMOVE ALL DEBRIS FROM BOTTOM OF EXCAVATION.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO, AND IMMEDIATELY AFTER PLACING CONCRETE. ANCHOR BOLT LAYOUT IS CRITICAL FOR MONOPOLE INSTALLATION.
- CONTRACTOR SHALL USE AND PROVIDE DEFORMED REINFORCING BARS CONFORMING TO ASTM A615 GR. 60 (60,000 PSI MIN. YIELD). CONTRACTOR SHALL USE STEEL WIRE TO HOLD REINFORCING BARS TOGETHER. IF WELDING REBAR IS PREFERRED, SUBSTITUTE USING A706 GR. 60 DEFORMED BARS.
- CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL USE 1" MAXIMUM STONE AGGREGATE. MIX DESIGN: 6 1/2 SACKS OF CEMENT MINIMUM PER CUBIC YARD. 5" MINIMUM AND 7" MAXIMUM CONCRETE SLUMP.
- CONCRETE SHALL BE CONSOLIDATED USING VIBRATORY METHODS THROUGHOUT DEPTH OF FOUNDATION. VIBRATING LOWER DEPTHS MAY BE ACCOMPLISHED BY TOUCHING REBAR CAGE WITH VIBRATOR.
- CONTRACTOR SHOULD ANTICIPATE THE USE OF A FULL-LENGTH TEMPORARY CASING TO STABILIZE THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATED HOLE. CONCRETE SHALL BE PLACED USING CONVENTIONAL METHODS TO MINIMIZE SEGREGATION OF CONCRETE AND AGGREGATE. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FT. CONCRETE MAY BE PLACED BELOW WATER USING TREMIE METHODS.
- CONCRETE SHALL BE PLACED TO THE DEPTH INDICATED, AND THE ABOVE GRADE PORTION SHALL BE FORMED. THE REBAR CAGE, ANCHOR BOLTS, AND CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. COLD JOINTS ARE NOT ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVERAGE OVER REINFORCING BARS TO MINIMIZE CORROSION POTENTIAL. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CONCRETE COVER OVER REBAR. TOP OF FOOTING SHALL BE TROWELLED LEVEL AND SMOOTH.
- DRILLED PIER FOUNDATION DESIGN PER 2009/2012 IBC, TABLE 1806.2, CLASS 4 MATERIAL.
- TOTAL VOLUME OF CONCRETE REQUIRED FOR THIS FOUNDATION IS APPROXIMATELY 1.1 CU. YDS.

FACTORED BASE REACTIONS

MOMENT = 30.9 ft-kips
 SHEAR = 2.46 kips
 VERTICAL = 1.67 kips

SPECIAL INSPECTIONS

SPECIAL INSPECTION: THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 2009/2012 IBC, SECTION 1704

ITEM	DESCRIPTION	INSPECTION BY	MATERIAL
1	PIER EXCAVATION LATERAL BEARING CAPACITY	SOILS ENGINEER	300 PSF/FT LATERAL
2	PIER CONSTRUCTION REINFORCING STEEL BAR SIZES AND INSTALLATION	SPECIAL INSPECTOR	ASTM A615 GR. 60
3	ANCHOR BOLTS BOLT SIZE AND LENGTHS INSTALLATION	SPECIAL INSPECTOR	ASTM F1554 GR. 55
4	CONCRETE TEST SPECIMENS PLACEMENT OF CONCRETE	SPECIAL INSPECTOR	f _c = 4,000 PSI TYPE II CEMENT

PLANS PREPARED FOR:

PLANS PREPARED BY:

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SUFFOLK COUNTY

P.E. STAMP AREA:

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FOUNDATION DETAILS

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D-4

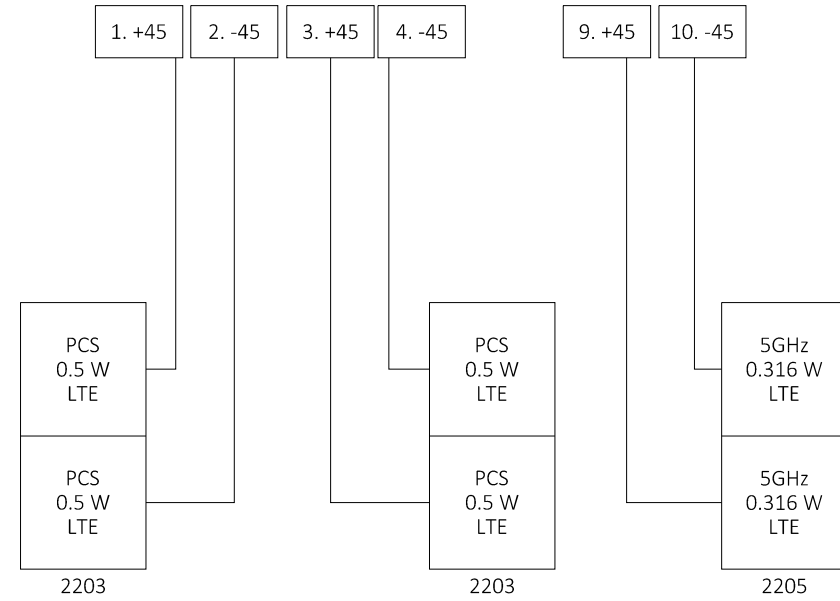
DESCRIPTION	QTY.	SIZE	LENGTH	WEIGHT	OVERLAP
VERTICAL BARS	8	#6	5'-6"	66 LBS.	N/A
HORIZONTAL TIES	10	#4	8'-4"	55 LBS.	2'-0"



EXISTING POLE
SCALE: NOT TO SCALE

1

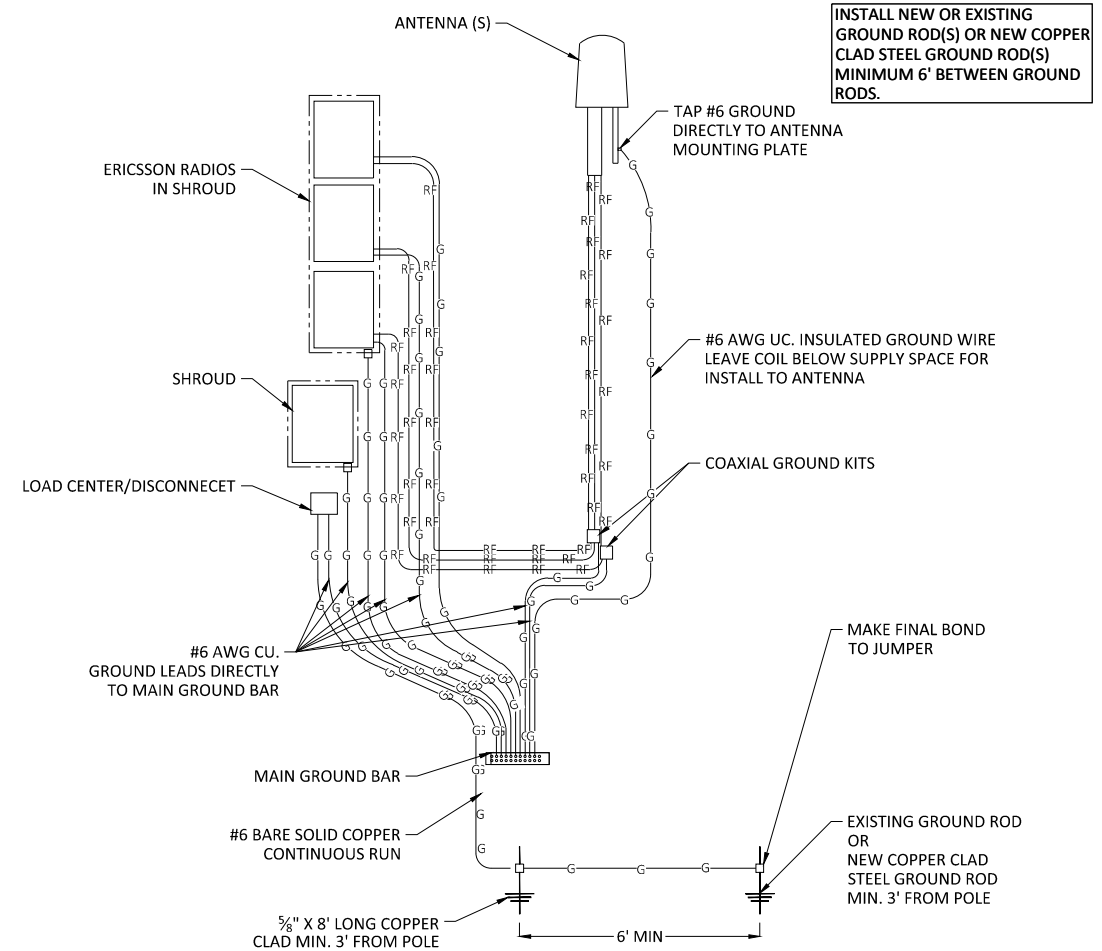
GALTRONICS GQ2410-06621 ANTENNA



WIRING DIAGRAM

SCALE: NOT TO SCALE

2



GROUNDING DIAGRAM

SCALE: NOT TO SCALE

3

PLANS PREPARED FOR:

PLANS PREPARED BY:

21 OXFORD RD
MANSFIELD, MA 02048
www.ucseeng.com 1-508-337-7600

LOCATION:

587 BEACON ST
BOSTON, MA 02215
SUFFOLK COUNTY

P.E. STAMP AREA:

DRAWING NOTES:

ORIGINAL PLAN:	AS NOTED
SCALE:	AS NOTED
DRAWN BY:	MS
PLAN ORIG. DATE:	07/26/19

REVISIONS:			
REV	DESCRIPTION	BY	DATE
1	UPDATE ADDRESS	MS	01/20/21

SITE INFO:

LAT: 42.349866°
LONG: -71.093429°

AT&T ID:
mmBOS1037

EXTENET NODE ID:
NE-MA-BSTBSC01-01037

SITE ADDRESS:
587 BEACON ST

SHEET TITLE:
GROUNDING & WIRING DIAGRAMS

SHEET NUMBER:
D-5

