



at&t

**AT&T Modifications to Existing Wireless Facility
484 Tremont Street
Presentation to the South End Landmark District Commission
APP # 19.694SE
February 5, 2019 @ 5:30 p.m.
Boston City Hall – Piemonte Room**

Edward D. Pare, Esq.





LOCATION

©2016 Google Maps



EXISTING



PROPOSED

VIEW 1 | LOOKING SOUTHEAST





LOCATION

©2016 Google Maps



EXISTING

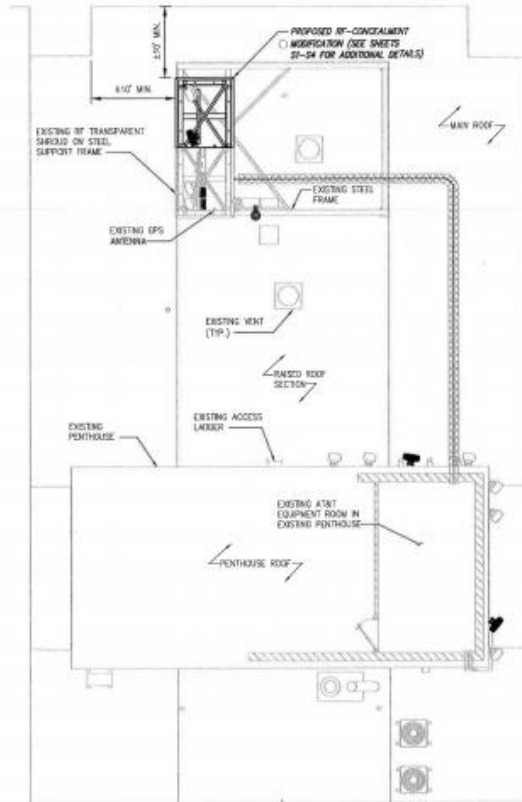


PROPOSED

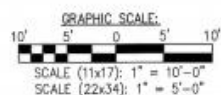
VIEW 3 | LOOKING WEST



NOTE:
FOR ADDITIONAL STRUCTURAL DETAILS, SEE POST AND STRUCTURAL ANALYSIS REPORT COMPLETED BY INFINIGY, DATED 4/25/18. SEE SHEETS S1-S4 FOR ADDITIONAL MODIFICATION DETAILS.



- NOTES:**
- EXISTING CONDITIONS INFORMATION BASED ON INFORMATION PROVIDED TO INFINIGY.
 - THESE DRAWINGS DO NOT REFLECT ADEQUACY OF EXISTING OR PROPOSED ANTENNA MOUNTS, MOUNT CONNECTIONS, OR CABLE ATTACHMENTS. INFINIGY DOES NOT ACCEPT LIABILITY FOR ANY OF THESE STRUCTURAL ELEMENTS.
 - ROUTE ALL PROPOSED CABLING ON EXISTING CABLE LADDER. ACTUAL ROUTE ON DRAWINGS MAY VARY FROM FIELD LOCATION OF EXISTING CABLE LADDER.
 - INSTALLER SHALL PROVIDE ALL NECESSARY CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETED INSTALLATION AND SHALL COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS.
 - INSTALLER SHALL PROVIDE ALL STRAIN RELIEF FOR ALL CABLE ASSEMBLIES ROUTING TO THE ANTENNAS. UTILIZATION OF HOISTING DEVS ON ALL DC POWER AND FIBER OPTIC CABLES SHALL BE UTILIZED.



INFINIGY
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Project Number	481001
Project Title	BOSTON TREMONT STREET
Address	FAIR 10546859 MA2892
Location	484 TREMONT STREET BOSTON STATE, MA 02116

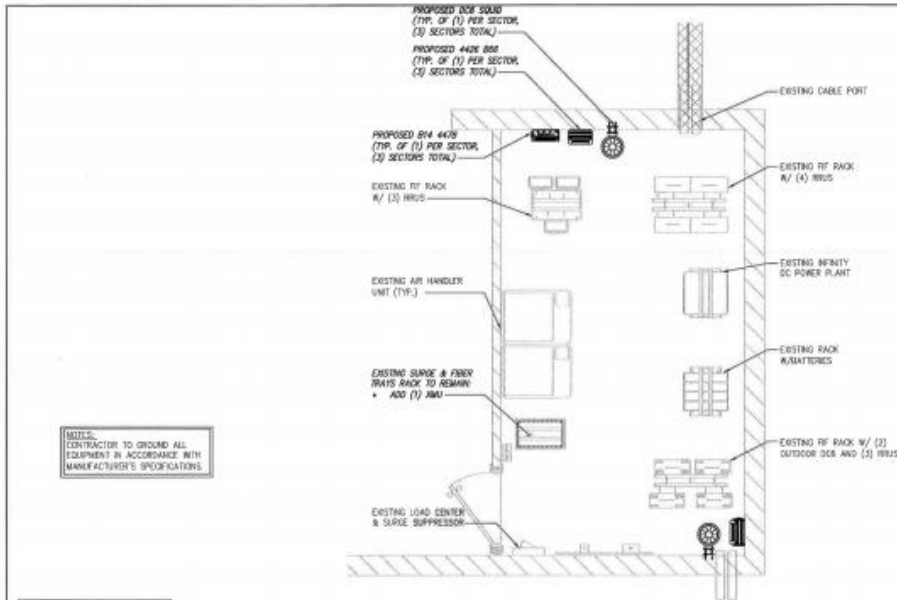
EMPIRE TELECOM
EMPLOYEES OF THE COMPANY REPRESENTING THE CLIENT ARE NOT TO BE HELD RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT. ALL DESIGN AND CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CLIENT.

Drawing Size: 11x17
Date: 11/27/18

Drawing Title: **ROOF SITE PLAN**

Drawing Number: **C3**





NOTES:
CONTRACTOR TO GROUND ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SYMBOLS

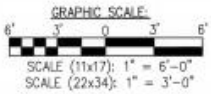
○	COPPER GROUND ROD
●	CONNECT FOR MANUFACTURER SPECS
◆	GALVANIZED CONNECTION
■	MECHANICAL CONNECTION
—	GROUND BAR
—	ELECTRICAL CONDUIT
—	GROUND WIRE
—	DC/POWER LINE

- NOTES:**
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 - INSTALLER SHALL PROVIDE ALL STRAIN RELIEF FOR ALL CABLE ASSEMBLIES FEEDING TO THE ANTENNAS. UTILIZATION OF HOUSING GRIPS ON ALL DC POWER AND FIBER OPTIC CABLES SHALL BE UTILIZED.

ABBREVIATIONS:

COGR	COAX ISOLATED GROUND BAR EXTERNAL
MOGB	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCF	BASE COPPER WIRE
BFG	BELOW FINISH GRADE
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
ADJUR	ADJURISST HAVING JURISDICTION
TLMN	TOWERS TOP LOW NOISE AMPLIFIER
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL

ENLARGED EQUIPMENT PLAN
SCALE: AS NOTED



NOTE:
INFINITY ENGINEERING HAS NOT CONDUCTED AN ELECTRICAL LOAD STUDY FOR THIS SITE. CONTRACTOR IS TO VERIFY EXISTING ELECTRICAL LOADS PRIOR TO CONSTRUCTION TO ENSURE THERE IS AMPLE SERVICE AVAILABLE TO ACCOMMODATE THE EXISTING AND PROPOSED EQUIPMENT.

ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND APPLICABLE LOCAL CODES.
- GROUNDING SHALL COMPLY WITH THE ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.
- ALL WIRES SHALL BE #10 AWG MIN THIN COPPER UNLESS NOTED.
- CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT UNLESS NOTED OTHERWISE.
- LABEL AT&T SERVICE DISCONNECTS WITH SUFFIX AND PANEL WITH ENGRAVED LAMINATED LABELS, LETTERS 1" IN HEIGHT.
- ROUTE DRINKING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND DRINKING LEADS WITH A MINIMUM 90° RADIUS.
- ENGAGE AN INDEPENDENT TESTING FIRM TO TEST AND VERIFY THAT RESISTANCE DOES NOT EXCEED 5 OHMS TO GROUND. TEST GROUND ROD RESISTANCE PRIOR TO MAKING FINAL GROUND CONNECTIONS TO INFRASTRUCTURE AND EQUIPMENT. GROUNDING AND OTHER OPERATIONAL TESTING SHALL BE WITNESSED BY AT&T REPRESENTATIVE.
- REMOVE ALL BOXES AND JUNCTION BOXES WHERE REQUIRED SO THAT CONDUIT BENDS DO NOT EXCEED 360 DEGREES.
- LOCATE PANELS AND PAYS REFS RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT. DELIVER COPIES OF ALL PERMITS TO AT&T REPRESENTATIVE.
- SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING AUTHORITY. CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY FAILED INSPECTION.
- REQUIRED AS-BUILT ARE TO BE DELIVERED TO AN AT&T REPRESENTATIVE.
- PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE-RING BINDER.
- FURNISH AND INSTALL THE COMPLETE ELECTRICAL SERVICE, TRIGO CONDUIT, AND THE COMPLETE GROUNDING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED BY A REAT WANNER AND SHALL BE SUBJECT TO APPROVAL BY AN AT&T REPRESENTATIVE.
- CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS AFFECTING THIS WORK. REPORT ANY OBSTACLES OR UNDESIRABLES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
- PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE, REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA.
- REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY FASHION WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. DEBRIS SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF LEGALLY.
- UPON COMPLETION OF WORK, THE SITE SHALL BE CLEAN AND FREE OF DUST AND FINGERPRINTS.
- PRIOR TO ANY REMEDIATION, CONTACT LOCAL UTILITY TO VERIFY LOCATION OF ANY EXISTING BURIED SERVICE CONDUITS.
- DOCUMENT GROUND RING INSTALLATION AND CONNECTIONS TO IT WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PRESENT PHOTO ARCHIVE A SITE "PLANCH LIST" WALK TO AT&T REPRESENTATIVE.
- ALL ABOVE GRADE CONDUIT TO BE WOOD METALIC.

GROUNDING NOTES:

- ALL DOWN CONDUCTORS AND GROUND RING AND CONDUCTOR SHALL BE #6 AWG SOLID BARE, TINNED COPPER, UNO ALL CONNECTIONS TO GROUND RING SHALL BE EXTERNALLY WELDED. CONNECTION SHALL BE A MINIMUM DEPTH BELOW GRADE OF 30 INCHES OR TO THE LODGE. MINIMUM BEND RADIUS SHALL BE 6 INCHES. CONDUCTOR SHALL BE AT LEAST 24 INCHES FROM ANY FOUNDATION. UNO.
- WHERE MECHANICAL CONDUCTOR CONNECTIONS ARE SPECIFIED, BOLTED, COMPRESSION-TYPE CLAMPS OR SPLIT-BOLT TYPE CONNECTORS SHALL BE USED.
- GROUND OFF GALVANIZING IN AFFECTED AREA. EXTERNALLY WELD #6 CONDUCTOR AT 6 INCHES ABOVE GRADE. IF FOUNDATION, WHICHEVER IS HIGHER, COULD-GALY AFTER EXTERNALLY WELD OTHER END TO THE GROUND.
- GROUND CONDUCTORS ON EXTERIOR WALL OF SHELTER SHALL BE ENCASED IN 1" PVC CONDUIT TO GRADE. MOUNT PVC WITH GALVANIZED "C" CLAMPS. SEAL TOP ENDS.
- FOLLOWING COMPLETION OF WORK, CONDUCT GROUND TEST. SUBMIT WRITTEN TEST TO CONSTRUCTION MANAGER AND PROJECT MANAGER.
- ALL DRINKING WORK SHALL COMPLY WITH (SAFENET'S) STANDARDS.
- GROUNDING REQUIREMENTS SHOWN ON THIS PLAN ARE FOR ITEMS THAT ARE LOCATED NEAR GRADE LEVEL AND THAT NEED TO BE TEST TO THE BELOW GRADE GROUND RING.
- UNLESS NOTED OTHERWISE, ALL GROUNDING SHALL BE IN ACCORDANCE WITH AT&T'S SPEC DOCUMENTS 3018.02.03A TOWERING, DRINKING AND TRANSMIT PROTECTION FOR CELL SHELTS, AND 3018.03.002 SITE RESISTANCE TO EARTH TESTS. ALL GROUNDING SHALL ALSO COMPLY WITH ALL STATE AND LOCAL CODES, AND THE NATIONAL ELECTRICAL CODE (NEC).
- UNLESS NOTED OTHERWISE, ALL GROUNDING CONNECTIONS SHALL BE MADE BY AN ELECTRICIAN WELDER. RESISTANCE TO EARTH TESTING IS REQUIRED PER AT&T STANDARDS ON ALL NEW SITES.

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1000 WEST 12TH AVENUE, SUITE 1000
DENVER, CO 80202
TEL: 303.733.7700 FAX: 303.733.7701

Project Number: 084-001
Project Title: EQUIPMENT SITE PLAN
Drawing Date: JUN/2007
Date: 11/15/10
Drawing Title: EQUIPMENT SITE PLAN
Drawing Number: C4



NOTE:
FOR ADDITIONAL STRUCTURAL DETAILS, SEE POST MOD STRUCTURAL ANALYSIS REPORT COMPLETED BY INFINIGY DATED 4/26/18 SEE SHEETS 31-34 FOR ADDITIONAL MODIFICATION DETAILS.

- NOTE:**
- 3 FEET MINIMUM SEPARATION BETWEEN LIKE ANTENNAS
 - 6 FEET MINIMUM SEPARATION BETWEEN DIVERS & LIKE

PROPOSED AT&T PANEL ANTENNA TO REPLACE EXISTING PANEL ANTENNA (TYP. OF (2) PER SECTOR, (3) SECTORS TOTAL)

EXISTING AT&T 199US-12 TO REMAIN (TYP. OF (2) PER SECTOR, (3) SECTORS TOTAL)

EXISTING AT&T PANEL ANTENNA TO REMAIN (TYP. OF (2) TOTAL, (1) ALPHA, (2) BETA, (2) GAMMA)

EXISTING AT&T 199US-11 TO REMAIN (TYP. OF (2) PER SECTOR, (3) SECTORS TOTAL)

EXISTING AT&T 199US-32 TO REMAIN (TYP. OF (1) PER SECTOR, (3) SECTORS TOTAL)

PROPOSED 4478 (TYP. OF (2) PER SECTOR, (3) SECTORS TOTAL)

PROPOSED 4428 8066 (TYP. OF (1) PER SECTOR, (3) SECTORS TOTAL)

EXISTING AT&T EQUIPMENT ROOM IN EXISTING BUILDING

EXISTING AT&T PANEL ANTENNA TO BE RELOCATED (TYP. OF (4) TOTAL, (2) ALPHA, (1) BETA, (1) GAMMA)

PROPOSED 608 SQUID (TYP. OF (1) PER SECTOR, (3) SECTORS TOTAL)

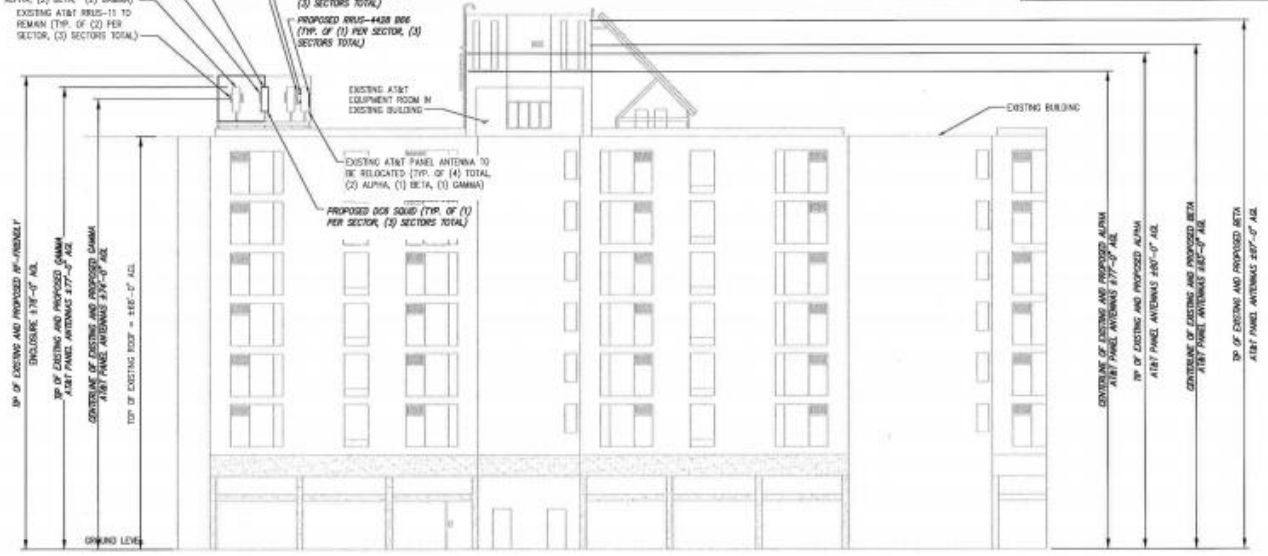
TOP OF EXISTING AND PROPOSED 4478 ENCLOSED 314'-0" A.S.L.

TOP OF EXISTING AND PROPOSED GAMMA AT&T PANEL ANTENNAS 317'-0" A.S.L.

CENTERS OF EXISTING AND PROPOSED GAMMA AT&T PANEL ANTENNAS 314'-0" A.S.L.

TOP OF EXISTING ROOF = 316'-0" A.S.L.

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1 ELEVATION VIEW
NOT TO SCALE

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JOHN STEVENSON
CIVIL ENGINEER
NOV. 3, 2018
PROFESSIONAL ENGINEERING
REG. NO. 12557
EXPIRES 12/31/2021
RENEWAL FEE \$200.00
ISSUED BY STATE BOARD OF PROFESSIONAL ENGINEERS

PROJECT NO. 18-001

Project Title: **BOSTON TREMONT STREET**
FAB 10546859
MA2892
484 TREMONT STREET
BOSTON STATE, MA 02116

Prepared For: **EMPIRE telecom**
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WWW.EMPIRETELECOM.COM
FOR ALL INFORMATION CONTACT: SALES@EMPIRETELECOM.COM

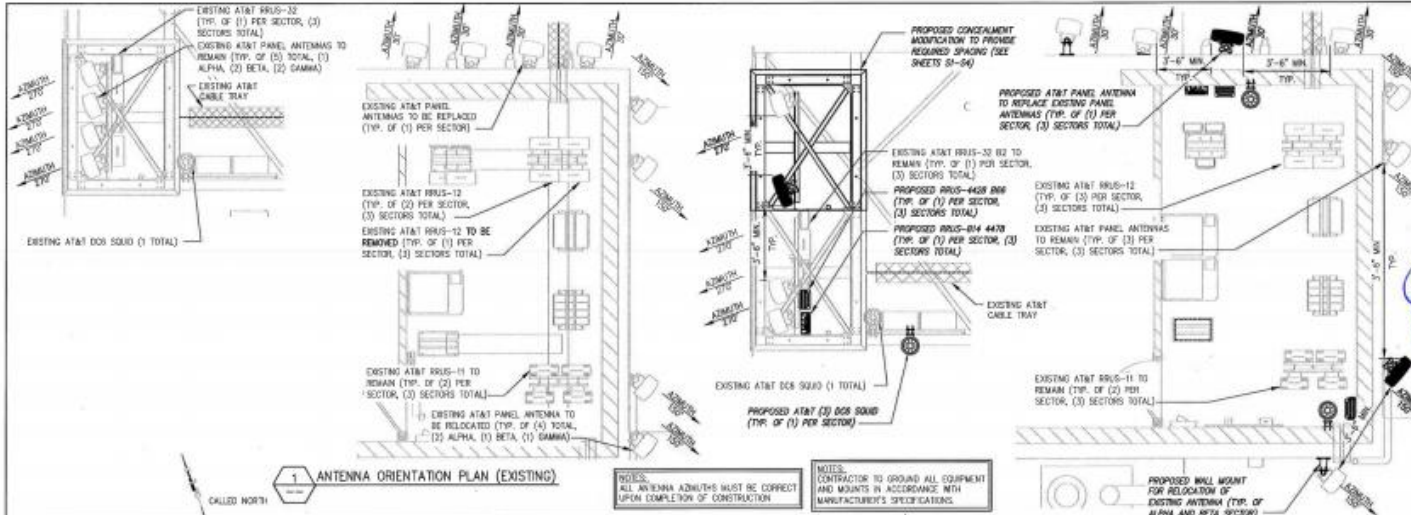
Drawing Scale: AS NOTED

Date: 11/26/18

Drawing Title: **ELEVATION VIEW**

Drawing Number: **C5**





1 ANTENNA ORIENTATION PLAN (EXISTING)

EXISTING AND PROPOSED ANTENNA, TMA AND DIPLEXER MODEL NUMBERS							
SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	ANTENNA HEIGHT	AZIMUTH	TMA/DIPLEXER	RRU
ALPHA	EXISTING	UMTS 850	HFA-65R-BU-H	±77'	30°	---	(2) (1) RRUS-11
	EXISTING	LTE MCS	HFA-65R-BU-H	±77'	30°	---	(2) (1) RRUS-32
	PROPOSED	LTE 700/440	800-10965	±77'	30°	---	(P) (1) 814 4470 (P) (1) 888 4428
	EXISTING	LTE 700/1900	HFA-65R-BU-H	±77'	30°	---	(2) (1) RRUS-11 (2) (2) RRUS-12
BETA	EXISTING	UMTS 850	HFA-65R-BU-H	±83'	150°	---	(2) (1) RRUS-11
	EXISTING	LTE MCS	HFA-65R-BU-H	±83'	150°	---	(2) (1) RRUS-32
	PROPOSED	LTE 700/440	800-10965	±83'	150°	---	(P) (1) 814 4470 (P) (1) 888 4428
	EXISTING	LTE 700/1900	HFA-65R-BU-H	±83'	150°	---	(2) (1) RRUS-11 (2) (2) RRUS-12
GAMMA	EXISTING	UMTS 850	HFA-65R-BU-H	±74'	270°	---	(2) (1) RRUS-11
	EXISTING	LTE MCS	HFA-65R-BU-H	±74'	270°	---	(2) (1) RRUS-32
	PROPOSED	LTE 700/440	800-10965	±74'	270°	---	(P) (1) 814 4470 (P) (1) 888 4428
	EXISTING	LTE 700/1900	HFA-65R-BU-H	±74'	270°	---	(2) (1) RRUS-11 (2) (2) RRUS-12

2 ANTENNA ORIENTATION PLAN (PROPOSED)

PROPOSED RRU AND CABLE SCHEDULE					
SECTOR	FIBER TRUNK	SINGLE FIBER	DC 3-PAIR	DC 1-PAIR	RRU'S
ALPHA		(2) 5 METER		(2) #0 AHS 15'	(2) (1) RRUS-32 (2) (2) RRUS-11 (2) (1) RRUS-12 (P) (1) 814 4470 (P) (1) 888 4428
BETA	EXISTING	(2) 5 METER	(2) #0 AHS	(2) #0 AHS 15'	(2) (1) RRUS-32 (2) (2) RRUS-11 (2) (2) RRUS-12 (P) (1) 814 4470 (P) (1) 888 4428
GAMMA		(2) 5 METER		(2) #0 AHS 15'	(2) (1) RRUS-32 (2) (2) RRUS-11 (2) (2) RRUS-12 (P) (1) 814 4470 (P) (1) 888 4428

3 RF EQUIPMENT SCHEDULE

INFINIGY8
1000 MASSACHUSETTS BLVD
ANDOVER, MA 01810
PH: 978.686.8888

at&t

JOHN'S STEVENS
Professional Engineer
No. 49647
REV-7 2018
STATE OF MASSACHUSETTS

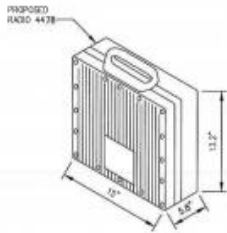
PROJECT: BOSTON TREMONT STREET
FA# 10546850
MA2892
484 TREMONT STREET
BOSTON STATE, MA 02116

EMPIRE TELECOM
REVISIONS TO THE ORIGINAL DESIGN SHALL BE INDICATED BY A CIRCLED NUMBER AND A DATE. CALCULATIONS SHALL BE PROVIDED.

Drawing Title: **EQUIPMENT DETAILS**

Drawing Number: **C6**

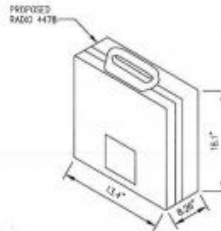




RADIO 4478-B66 SPECIFICATIONS

- HUND (INCHES) : 15"x5.6"x13.2"
- WEIGHT (LBS) : 48.5
- COLOR : GRAY

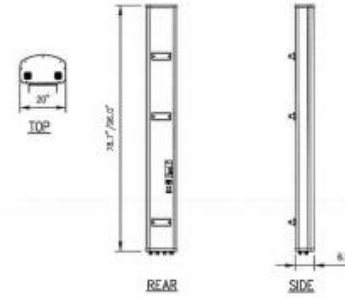
1 ERICSSON 4426-B66 DETAIL
NOT TO SCALE



RADIO 4478-B64 SPECIFICATIONS

- HUND (INCHES) : 13.1"x12.4"x18.2"
- WEIGHT (LBS) : 59.5
- COLOR : GRAY

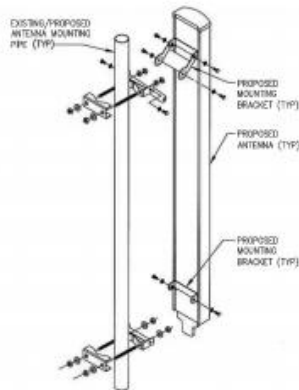
2 ERICSSON RADIO 4478 DETAIL
NOT TO SCALE



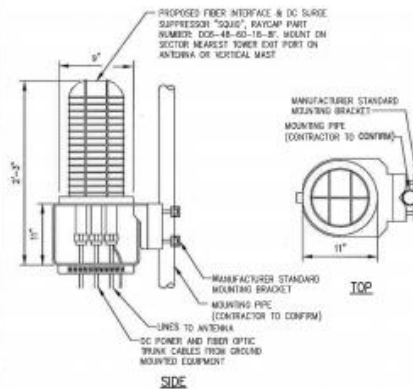
KATHREIN MODEL NO.: 800-10965/6

RADOME MATERIAL: FIBERGLASS, UV RESISTANT
 RADOME COLOR: LIGHT GRAY
 DIMENSIONS, HUND: 36.7"x26.7"x8.8"
 HEIGHT, W/ PRE-MOUNTED BRACKETS: 108.6"/100.0 LBS
 CONNECTOR: (2) 7-16 UN FEMALE

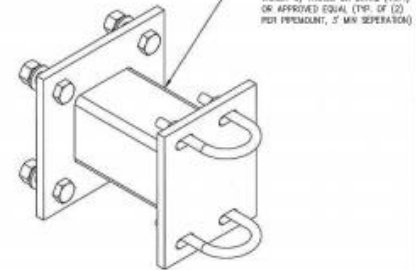
3 ANTENNA DETAIL
NOT TO SCALE



4 MOUNTING DETAIL
NOT TO SCALE



5 SQUID DETAIL
NOT TO SCALE



6 WALL MOUNT DETAIL
NOT TO SCALE

INFINIGY8
1000 Water Street Boston MA
02109-3000
TEL: 617-552-0000



TO THE SURVEYOR & A HOLDER OF ANY INTEREST THEREIN

THIS IS TO CERTIFY THAT I HAVE PERSONALLY EXAMINED THE WORK SHOWN ON THESE PLANS AND THAT THE SAME ACCORDS WITH THE INFORMATION FURNISHED TO ME BY THE CONTRACTOR AND THAT THE SAME COMPLY WITH ALL CITY, STATE AND FEDERAL REQUIREMENTS AND ORDINANCES.

Drawn: JMC, Date: 06/20/18
 Checked: JMC, Date: 06/20/18
 Project Number: 184-001

Project Title:
BOSTON TREMONT STREET
FA# 10546859
MA2882
 58A TREMONT STREET
 BOSTON, STATE, MA 02118

Prepared For:
EMPIRE TELECOM
 100 WATER STREET, 10TH FLOOR
 BOSTON, MA 02109
 CONTACT: 617-552-0000

Drawing Scale: AS SHOWN
 Date: 11/07/18

EQUIPMENT DETAILS

Sheet Number:
C7