



# SOUTH END 6 MA

55 TRAVELER STREET  
BOSTON, MA 02118

FUZE PROJECT ID: 16762698  
PSLC: 541249

**verizon**  
WIRELESS  
VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

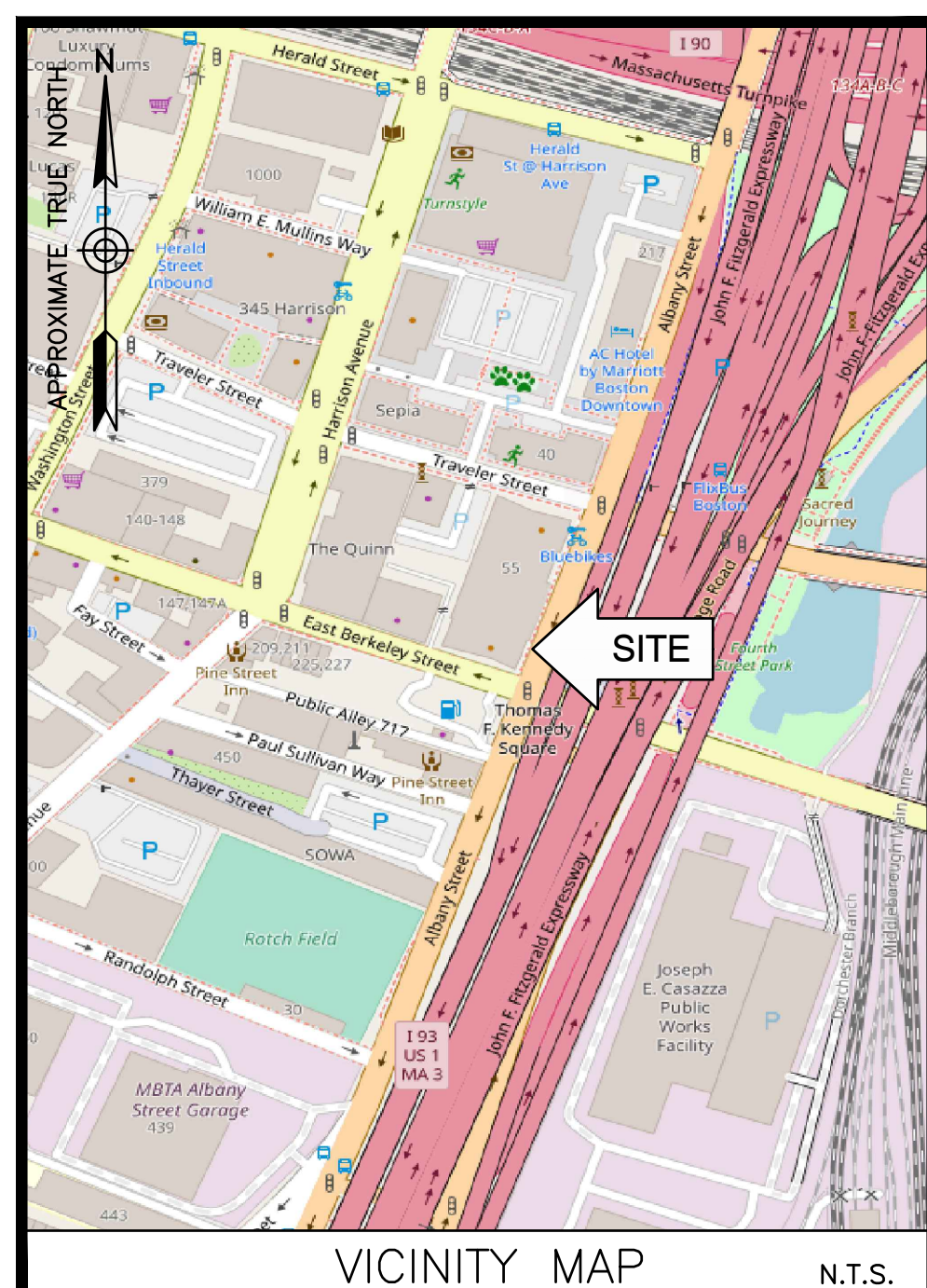
SOUTH END 6 MA

CONSTRUCTION DRAWINGS

2	11/29/22	FOR SUBMITTAL
1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT



Dewberry Engineers Inc.  
99 SUMMER STREET  
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BOSTON, MA 02110  
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**ENGINEER**  
DEWBERRY ENGINEERS INC.  
99 SUMMER ST.  
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**CONSTRUCTION**  
VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851  
PHONE # (617) 921-9716  
CONTACT: ERIC WAINWRIGHT

PROJECT TEAM

**SITE NAME:**  
SOUTH END 6 MA

**PROPERTY OWNER:**  
EQR-TROY LLC  
2 N RIVERSIDE PLZ STE 400  
CHICAGO, IL 60606

**APPLICANT:**  
VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**ELECTRIC UTILITY:**  
EVERSOURCE  
(800) 362-7764

**TELEPHONE UTILITY:**  
VERIZON  
(855) 993-5549

**HORIZONTAL DATUM:**  
NORTH AMERICAN DATUM OF 1983 (NAD 83)

**COORDINATES:**  
LATITUDE: 42° 20' 35.8" N  
LONGITUDE: 71° 3' 45.9" W

PROJECT SUMMARY

**SITE ADDRESS:**  
55 TRAVELER STREET  
BOSTON, MA 02118

**PARCEL ID:**  
0306577000

**ZONING DISTRICT:**  
SOUTH END NEIGHBORHOOD  
SUBDISTRICT: EDA NORTH

PROJECT DIRECTORY

THE SITE WILL CONSIST OF LOCATING FOUR (4) SECTORS OF ANTENNAS (5 ANTENNAS/SECTOR) AND ASSOCIATED EQUIPMENT ON AN EXISTING BUILDING. EQUIPMENT CABINETS, WILL BE INSTALLED INSIDE A MECHANICAL PENTHOUSE, POWER AND TELCO WILL COME FROM EXISTING SOURCES ON SITE.

PROJECT DESCRIPTION

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
Z-1	50' ABUTTERS PLAN
C-1	PROPOSED ROOF PLAN
C-2	EAST ELEVATION
C-3	WEST ELEVATION
C-4	NORTH ELEVATION
C-5	SOUTH ELEVATION
C-6	ELECTRICAL ROOM & EQUIPMENT PLAN
C-7	CONSTRUCTION DETAILS - I
C-8	CONSTRUCTION DETAILS - II
C-9	CONSTRUCTION DETAILS - III
C-10	CONSTRUCTION DETAILS - IV
C-11	CONSTRUCTION DETAILS - V
E-1	RISER DIAGRAMS
G-1	GROUNDING DIAGRAMS
G-2	GROUNDING DETAILS

SHEET INDEX

DRAWN BY: MR

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50150857

SITE LOCATION CODE  
541249

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BOSTON, MA 02118

SHEET TITLE  
TITLE SHEET

SHEET NUMBER

## GENERAL CONSTRUCTION NOTES :

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND COMPLY WITH VERIZON WIRELESS SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT "DIG SAFE" (888-344-7233) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, VERIZON WIRELESS PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- ALL ROOF WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED ROOFING CONTRACTOR IN COORDINATION WITH ANY CONTRACTOR WARRANTING THE ROOF TO ENSURE THAT THE WARRANTY IS MAINTAINED.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH THREE AS-BUILT SETS OF DRAWINGS UPON COMPLETION OF WORK.
- ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY VERIZON WIRELESS. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY VERIZON WIRELESS. ALL ITEMS NOT PROVIDED BY VERIZON WIRELESS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY VERIZON WIRELESS.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH VERIZON WIRELESS PROJECT MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY VERIZON WIRELESS. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- GENERAL CONTRACTOR SHALL HAVE A LICENSED HVAC CONTRACTOR START THE HVAC UNITS, SYNCHRONIZE THE THERMOSTATS, ADJUST ALL SETTINGS ON EACH UNIT ACCORDING TO VERIZON WIRELESS CONSTRUCTION MANAGER'S SPECIFICATIONS, AND THOROUGHLY TEST AND BALANCE EACH UNIT TO ENSURE PROPER OPERATION PRIOR TO TURNING THE SITE OVER TO OWNER.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- UNLESS OTHERWISE NOTED VERIZON WIRELESS SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, BIAS-T'S, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY VERIZON WIRELESS FOR INSTALLATION BY CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO CONSTRUCTION START, MORE SPECIFICALLY BEFORE; SEALING ANY FLOOR, WALL OR ROOF PENETRATION, FINAL UTILITY CONNECTIONS, POURING CONCRETE, BACKFILLING UTILITY TRENCHES AND STRUCTURAL POST OR MOUNTING CONNECTIONS, FOR ENGINEERING REVIEW AND INSPECTION.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE CODE APPROVED MATERIALS.
- REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND LANDLORD.
- ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE.

## CODE SPECIFICATIONS:

- ALL GENERAL WORK TO BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE.
- ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2020 (NEC 2020).
- ALL STRUCTURAL WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 13TH EDITION (AISC 13TH ED.)
- ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI 301) SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 318) AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- ALL REINFORCING STEEL WORK TO BE DONE IN ACCORDANCE WITH THE (ACI 315) MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

## GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUNDING CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR INDOOR USE.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. 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 NOT EXCEED 5 OHMS.
- GROUNDING CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS USING VERIZON PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.

## STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:  

ASTM A-992, GRADE 50	ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE.
ASTM A-36	ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
ASTM A-500, GRADE B	HSS SECTION (SQUARE, RECTANGULAR, ROUND)
ASTM A-325, TYPE SC OR N	ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS.
F1554, GRADE 36	ALL ANCHORS/ BOLTS, UNLESS NOTED OTHERWISE.
ASTM A-53, GRADE B	STEEL PIPE
- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION. WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
- ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
- CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
- ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123/A123M-00 HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED. REPAIR DAMAGED GALVANIZED COATINGS ON GALVANIZED ITEMS WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS. PRIOR TO COMPLETION OF WORK. TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
- ALL WELDED COMPONENTS TO BE SHOP WELDED PRIOR TO INSTALLATION. NO WELDING ACTIVITIES IS PERMITTED DURING INSTALLATION OF PROPOSED EQUIPMENTS AND/OR HARDWARE ON SITE.
- STEEL SHOP DRAWINGS AND FABRICATION SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- STRUCTURAL STEEL FABRICATION SHALL BE PERFORMED BY AN ORGANIZATION EXPERIENCED IN STRUCTURAL FABRICATION OF EQUIVALENT MAGNITUDE TO THIS PROJECT, AND HAS AN AISC CERTIFICATION FOR STRUCTURAL STEELWORK. PROVIDE, WITH THE BID, A COPY OF THE AISC CERTIFICATE INDICATING THAT THE FABRICATION PLANT MEETS AISC CATEGORY STD CERTIFICATION. IN LIEU OF AN AISC CERTIFICATION, THE FABRICATOR MAY SUBMIT DOCUMENTATION OF EQUIVALENT EXPERIENCE IN THE FABRICATION OF THE ITEM OR ITEMS IN QUESTION.
- SPLICING OF STRUCTURAL STEEL SECTIONS, NOT INDICATED ON CONTRACT DOCUMENTS, IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
- ORIENT MILL CAMBER UPWARD DURING FABRICATION AND ERECTION.
- ALUMINUM AND STEEL MEMBERS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.
- ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
- GROUT TO BE COMMERCIAL GRADE AND REACH 5000 PSI MINIMUM. USE COMMERCIAL GRADE QUIKRETE OR EQUAL. HAND MIXED CEMENT IS NOT TO BE USED.

## GENERAL ELECTRICAL NOTES:

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU.
- ALL CONDUIT INSTALLED MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES & O.S.H.A.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
- ALL BUILDING WIRE #12 TO # 6 SHALL BE STRANDED COPPER TYPE THWN-THHN. CONDUCTORS #4 AND LARGER SHALL BE COPPER TYPE XHHW.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED AND A MINIMUM OF 25,000 A.I.C. UNLESS OTHERWISE INDICATED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, M PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND, THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH FIRESTOP DETAILS.
- WIRE AND CABLE CONDUCTORS SHALL BE STRANDED COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY STATED OTHERWISE ON DRAWINGS.
- VERIFY ALL CONDUIT ROUTING W/OWNER REP. & VERIZON WIRELESS C.M. NO OTHER SURFACE MOUNTED CONDUITS WILL BE ALLOWED OTHER THAN IN CHASES AND ABOVE CEILINGS.
- ALL MATERIALS SHALL BE U.L. LISTED.
- CONDUIT:
  - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
  - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
  - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
  - CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILINGS OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- COORDINATE THE ELECTRICAL SERVICE WITH BUILDING OWNER.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO DISPATCH COMMUNICATIONS ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- ALL WALL AND FLOOR PENETRATIONS SHALL BE FIRE STOPPED WITH FS-ONE HIGH PERFORMANCE INTUMESCENT FIRE STOP BY HILTI OR APPROVED EQUAL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



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SHEET TITLE

50' ABUTTERS PLAN

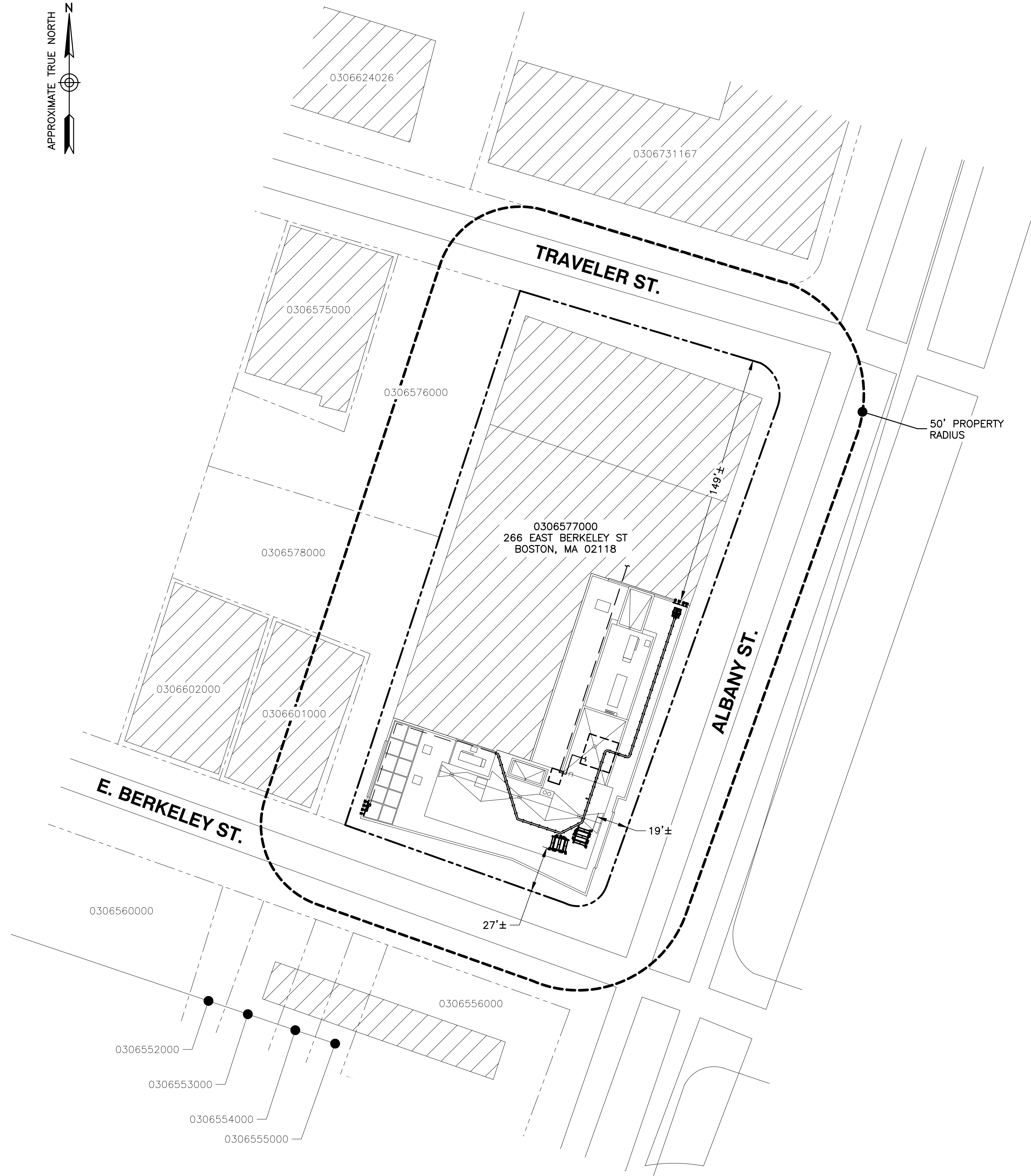
SHEET NUMBER

Z-1



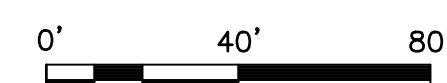
ZONING INFORMATION	
DISTRICT:	SOUTH END NEIGHBORHOOD
	SUBDISTRICT: EDA NORTH

LEGEND	
	LOCUS PROPERTY LINE
	EXISTING PROPERTY LINE
	50' PROPERTY RADIUS
	EXISTING BUILDING
XXXXXXXXXX	PARCEL ID



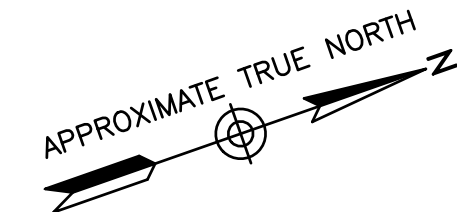
**50' ABUTTERS PLAN**

SCALE: 1"=80' FOR 11"x17"  
 1"=40' FOR 22"x34"

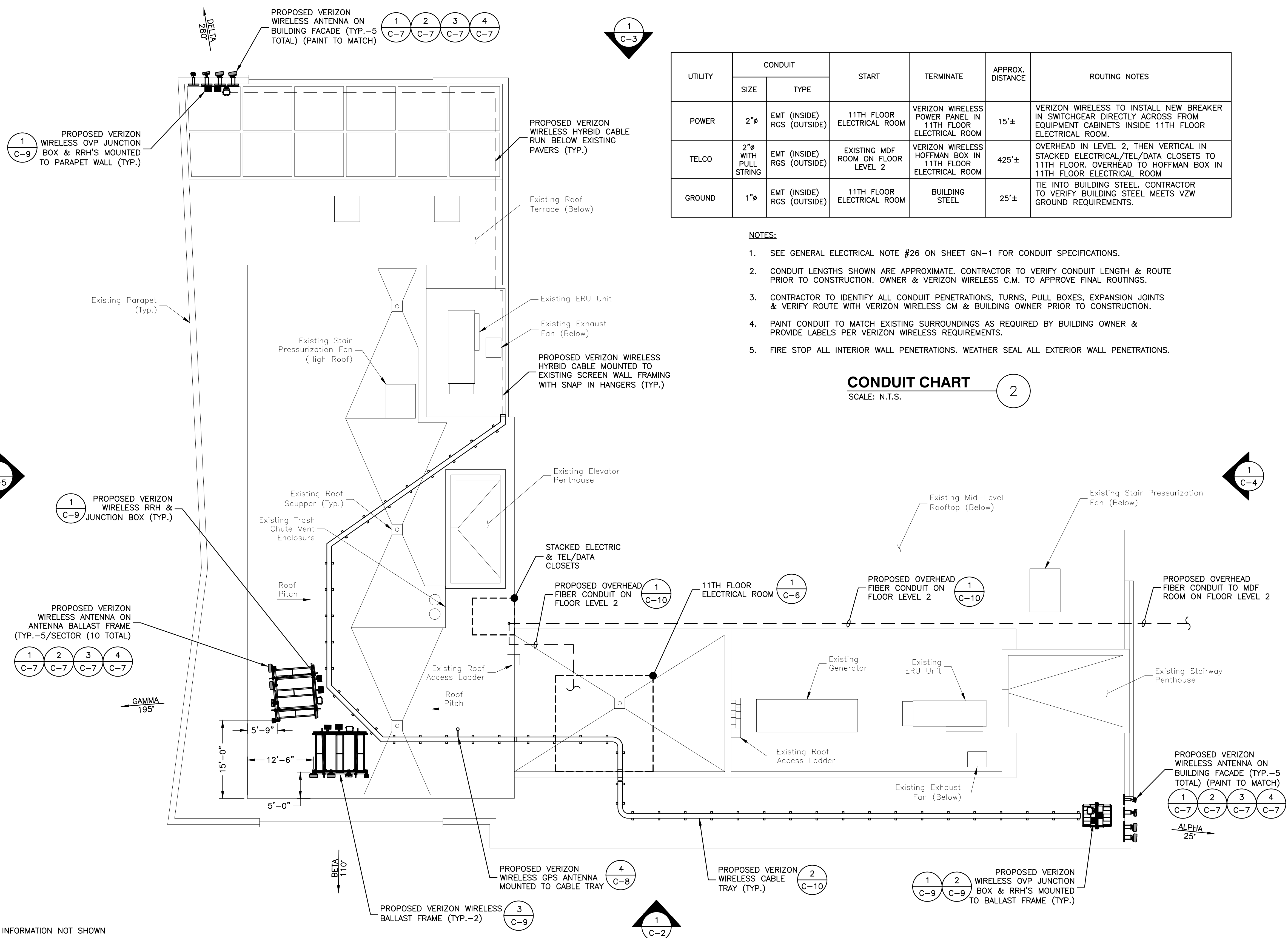


**NOTES:**

1. NORTH ARROW SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. ABUTTERS PLAN BASED ON CITY OF BOSTON ONLINE GIS MAPS AND PROPERTY DATA AND HAVE NOT BEEN VERIFIED WITH A SURVEY.



EAST BERKELEY STREET



UTILITY	CONDUIT		START	TERMINATE	APPROX. DISTANCE	ROUTING NOTES
	SIZE	TYPE				
POWER	2"Ø	EMT (INSIDE) RGS (OUTSIDE)	11TH FLOOR ELECTRICAL ROOM	VERIZON WIRELESS POWER PANEL IN 11TH FLOOR ELECTRICAL ROOM	15'±	VERIZON WIRELESS TO INSTALL NEW BREAKER IN SWITCHGEAR DIRECTLY ACROSS FROM EQUIPMENT CABINETS INSIDE 11TH FLOOR ELECTRICAL ROOM.
TELCO	2"Ø WITH PULL STRING	EMT (INSIDE) RGS (OUTSIDE)	EXISTING MDF ROOM ON FLOOR LEVEL 2	VERIZON WIRELESS HOFFMAN BOX IN 11TH FLOOR ELECTRICAL ROOM	425'±	OVERHEAD IN LEVEL 2, THEN VERTICAL IN STACKED ELECTRICAL/TEL/DATA CLOSETS TO 11TH FLOOR OVERHEAD TO HOFFMAN BOX IN 11TH FLOOR ELECTRICAL ROOM.
GROUND	1"Ø	EMT (INSIDE) RGS (OUTSIDE)	11TH FLOOR ELECTRICAL ROOM	BUILDING STEEL	25'±	TIE INTO BUILDING STEEL. CONTRACTOR TO VERIFY BUILDING STEEL MEETS VZW GROUND REQUIREMENTS.

- NOTES:**
- SEE GENERAL ELECTRICAL NOTE #26 ON SHEET GN-1 FOR CONDUIT SPECIFICATIONS.
  - CONDUIT LENGTHS SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY CONDUIT LENGTH & ROUTE PRIOR TO CONSTRUCTION. OWNER & VERIZON WIRELESS C.M. TO APPROVE FINAL ROUTINGS.
  - CONTRACTOR TO IDENTIFY ALL CONDUIT PENETRATIONS, TURNS, PULL BOXES, EXPANSION JOINTS & VERIFY ROUTE WITH VERIZON WIRELESS CM & BUILDING OWNER PRIOR TO CONSTRUCTION.
  - PAINT CONDUIT TO MATCH EXISTING SURROUNDINGS AS REQUIRED BY BUILDING OWNER & PROVIDE LABELS PER VERIZON WIRELESS REQUIREMENTS.
  - FIRE STOP ALL INTERIOR WALL PENETRATIONS. WEATHER SEAL ALL EXTERIOR WALL PENETRATIONS.

**CONDUIT CHART**  
SCALE: N.T.S.

- NOTES:**
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  - FIBER DEMARK LOCATION PENDING FINAL UTILITY ROUTING & DESIGN.
  - ROOF PLAN, 11th FLOOR PLAN & ELEVATION BASED PLANS BY GERDING EDLEN & ADD INC. FOR 275 ALBANY STREET, BOSTON MA 02118, DATED 10/21/2013.

**PROPOSED ROOF PLAN**  
SCALE: 1"=20' FOR 11"x17"  
1"=10' FOR 22"x34"  
0' 10' 20'



VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

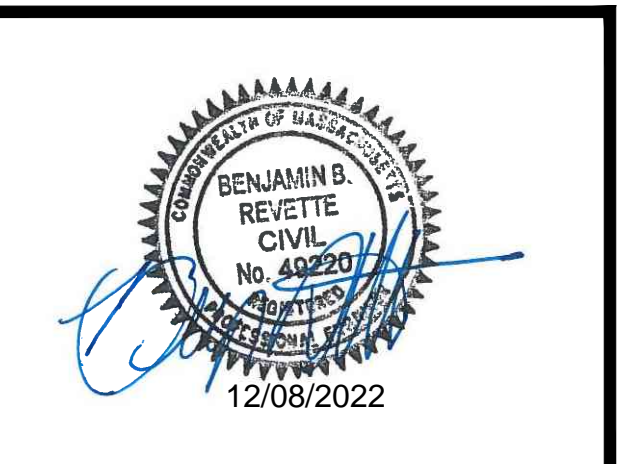
**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

NO.	DATE	DESCRIPTION
2	11/29/22	FOR SUBMITTAL
1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT



Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: MR

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50150857

SITE LOCATION CODE

541249

SITE ADDRESS

55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

PROPOSED ROOF PLAN

SHEET NUMBER

C-1



VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

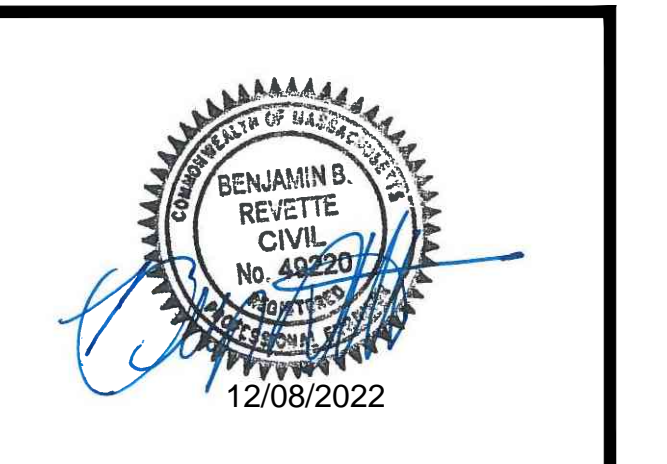
**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

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55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

EAST ELEVATION

SHEET NUMBER

C-2

PROPOSED VERIZON WIRELESS ANTENNA (TYP.-5/SECTOR) (10 TOTAL) MOUNTED TO PROPOSED BALLAST FRAME

PROPOSED VERIZON WIRELESS BALLAST FRAME (TYP.-2)

Top Of Elevator Penthouse Elev. = 128'-10" ± A.G.L.

PROPOSED VERIZON WIRELESS EQUIPMENT AREA IN 11TH FLOOR ELECTRICAL ROOM (TYP.)

PROPOSED VERIZON WIRELESS OVP JUNCTION BOX & RRH'S MOUNTED TO BALLAST FRAME (TYP.)

PROPOSED VERIZON WIRELESS CABLE TRAY (TYP.)

C.L. OF PROPOSED VERIZON WIRELESS ALPHA & DELTA SECTOR ANTENNAS  
AT1K04 ELEV. = 111'-11" ± A.G.L.  
SUB6 ELEV. = 111'-1" ± A.G.L.  
PANEL ELEV. = 111'-7" ± A.G.L.  
CBRS ELEV. = 109'-11" ± A.G.L.

PROPOSED VERIZON WIRELESS ANTENNA ON BUILDING FACADE (TYP.-5/SECTOR) (10 TOTAL) (PAINT TO MATCH)

PROPOSED FIBER CONDUIT IN STACKED ELECTRIC & TEL/DATA CLOSETS

Existing Window (Typ.)

PROPOSED OVERHEAD FIBER CONDUIT TO MDF ROOM ON FLOOR LEVEL 2

Existing Garage Door

C.L. OF PROPOSED VERIZON WIRELESS BETA & GAMMA SECTOR ANTENNAS  
AT1K04 ELEV. = 132'-5" ± A.G.L.  
SUB6 ELEV. = 131'-8" ± A.G.L.  
PANEL ELEV. = 131'-3" ± A.G.L.  
CBRS ELEV. = 130'-2" ± A.G.L.

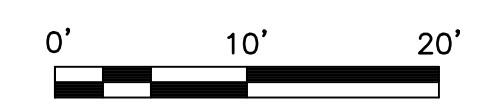
Top Of High Roof Elev. = 124'-0" ± A.G.L.

Top Of Mid-Level Roof Elev. = 109'-7" ± A.G.L.

Ground Level Elev. = 0'-0" ± A.G.L.

**EAST ELEVATION**

SCALE: 1"=20' FOR 11"x17"  
1"=10' FOR 22"x34"



**NOTES:**

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VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

CONSTRUCTION DRAWINGS

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SITE ADDRESS

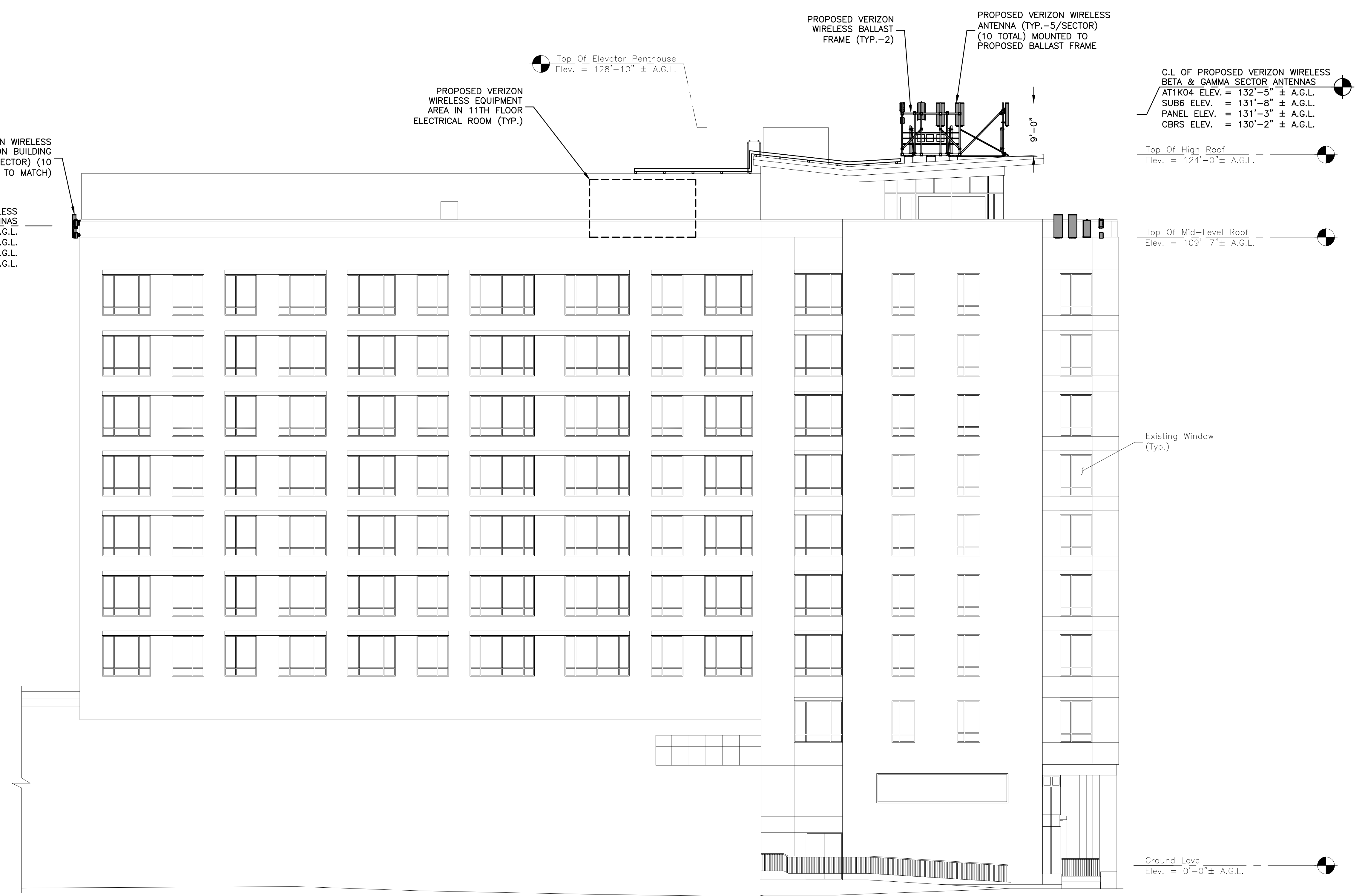
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

WEST ELEVATION

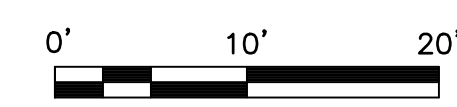
SHEET NUMBER

C-3



**WEST ELEVATION**

SCALE: 1"=20' FOR 11"x17"  
1"=10' FOR 22"x34"



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VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

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SITE LOCATION CODE

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SITE ADDRESS

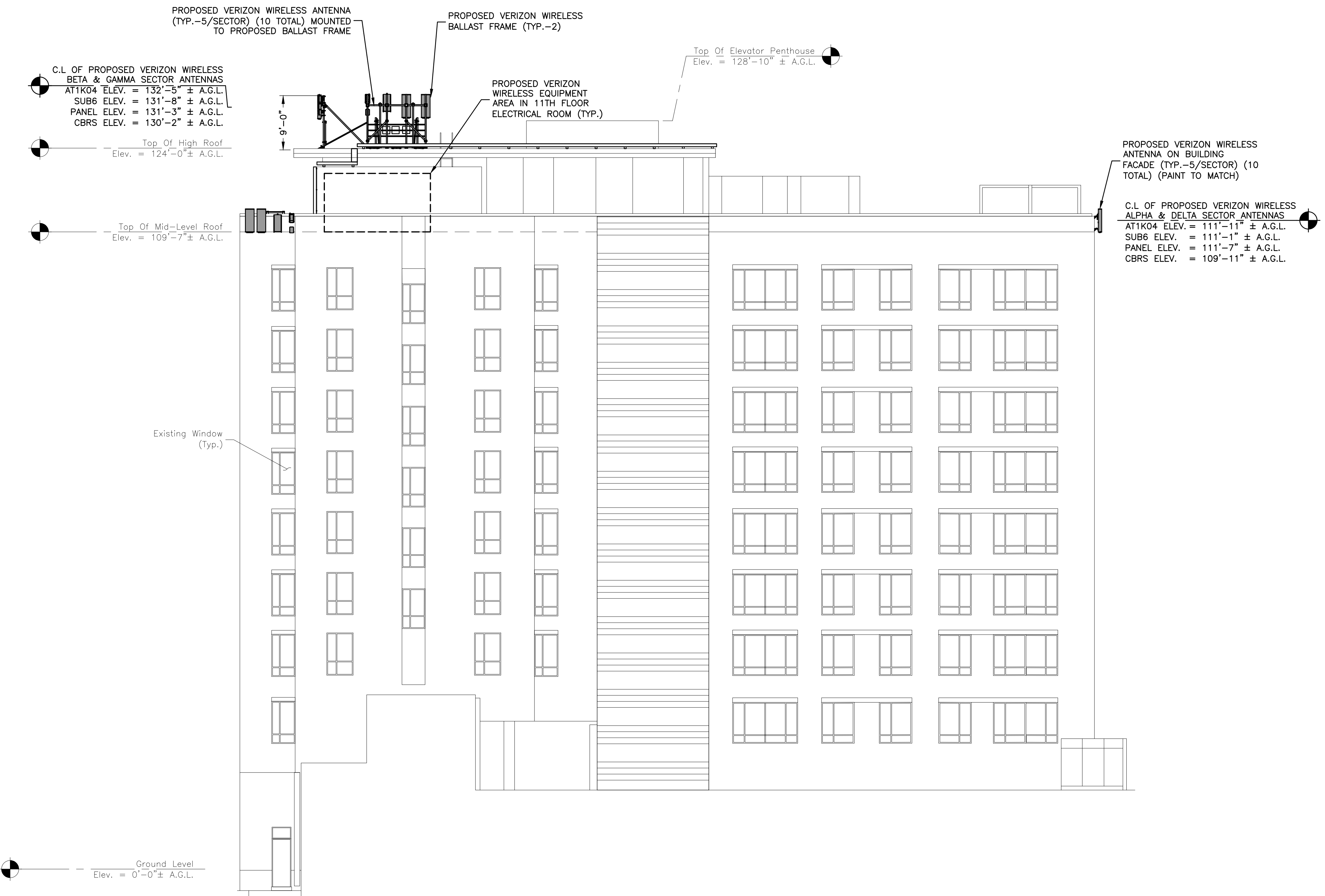
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

NORTH ELEVATION

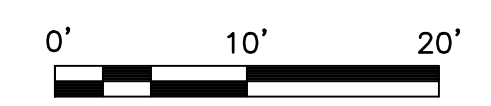
SHEET NUMBER

C-4



**NORTH ELEVATION** 1

SCALE: 1"=20' FOR 11"x17"  
1"=10' FOR 22"x34"



- NOTES:**
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VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

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DRAWN BY: MR

REVIEWED BY: MFT

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PROJECT NUMBER: 50121487

JOB NUMBER: 50150857

SITE LOCATION CODE

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SITE ADDRESS

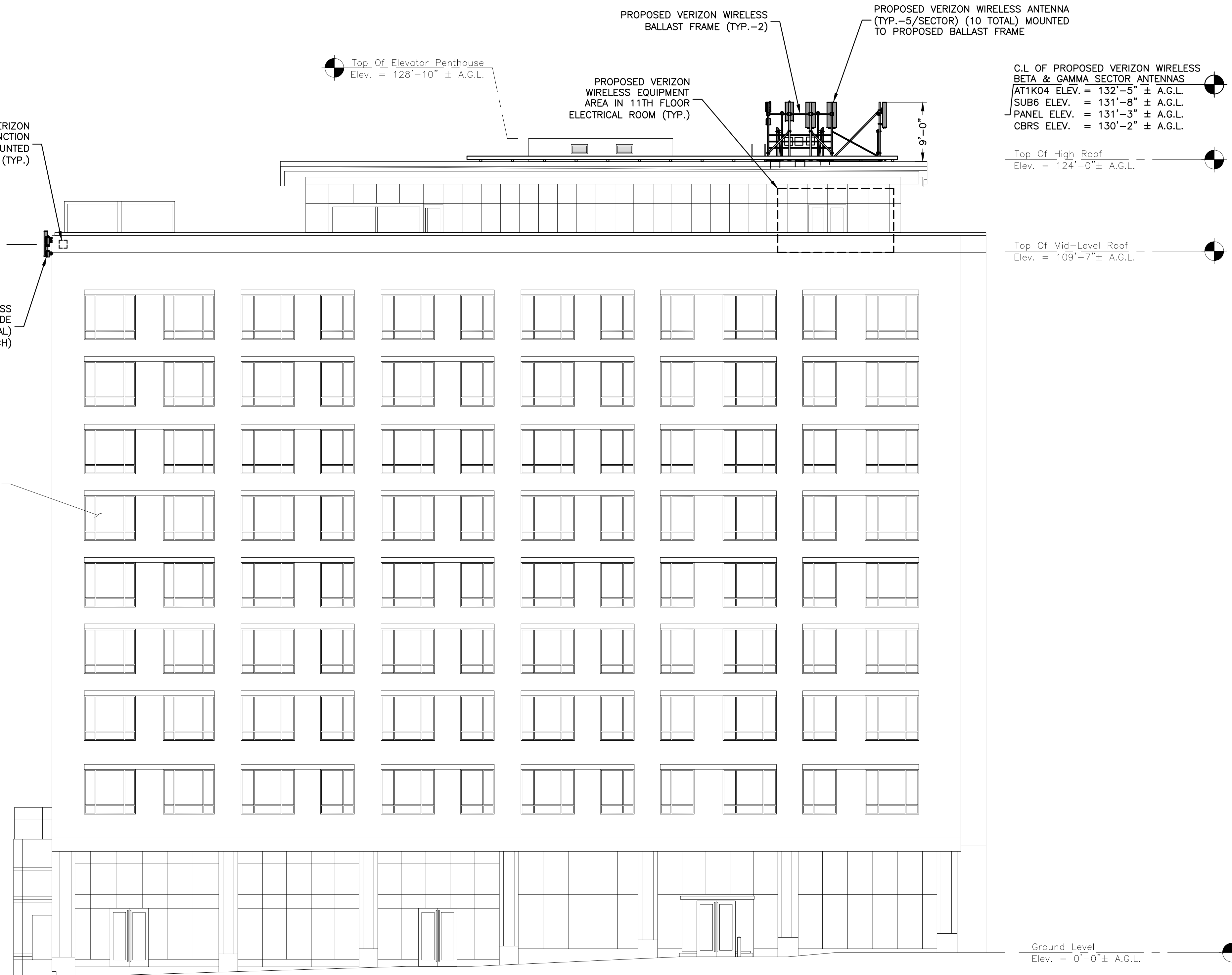
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

SOUTH ELEVATION

SHEET NUMBER

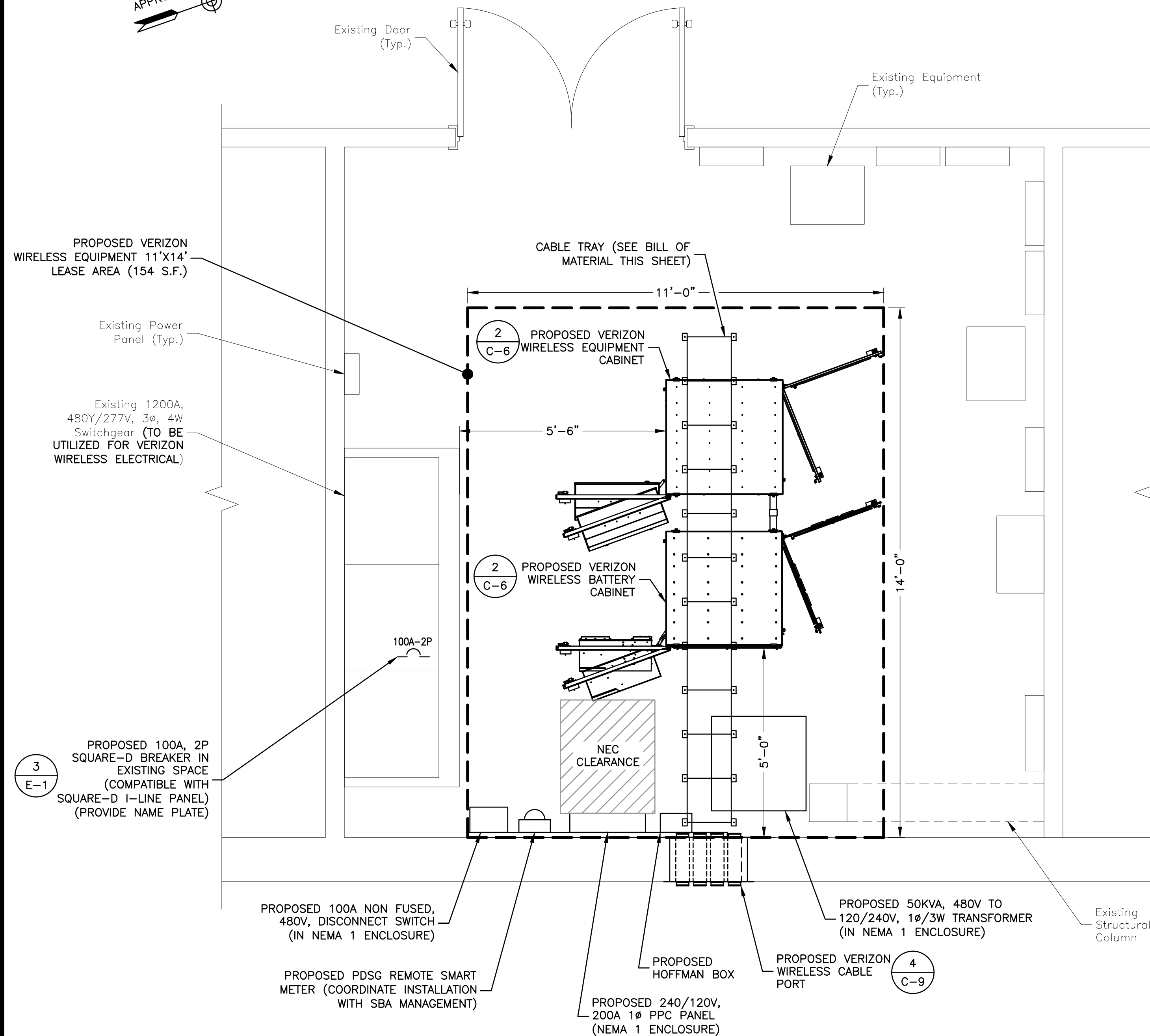
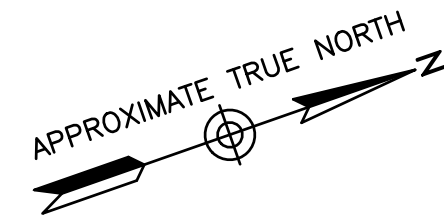
C-5



**SOUTH ELEVATION** ①  
SCALE: 1"=20' FOR 11"x17"  
1"=10' FOR 22"x34"  
0' 10' 20'

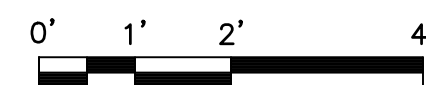
- NOTES:**
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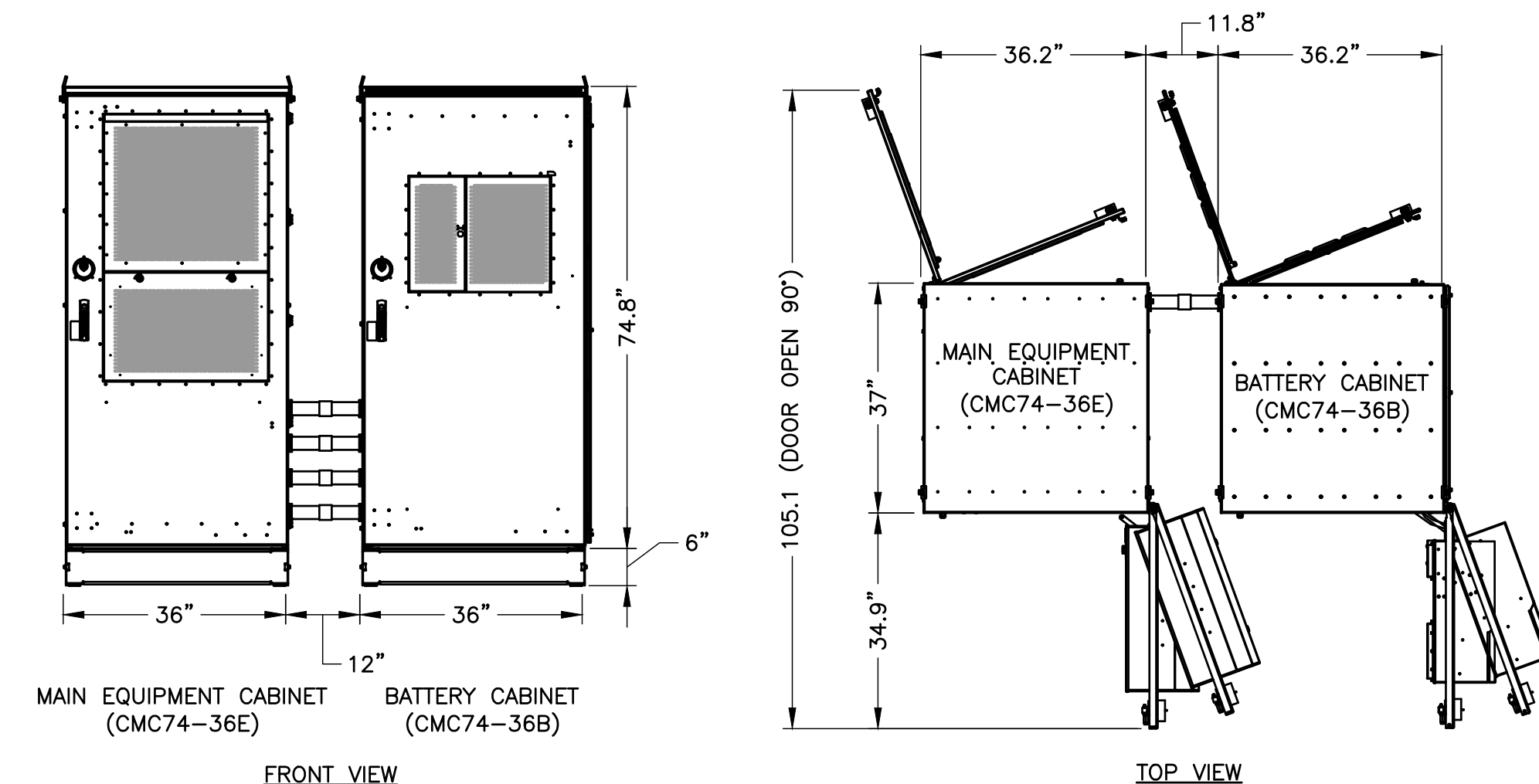
**11TH FLOOR ELECTRICAL ROOM PLAN**

SCALE: 1/4"=1' FOR 11"x17"  
1/2"=1' FOR 22"x34"



EQUIPMENT DEAD LOADS:	WEIGHTS (LBS.)
CMC74-36E (EQUIPMENT CABINET)	1,000 LBS.
CMC74-36B (BATTERY CABINET)	4,000 LBS.
POWER PANEL	50 LBS.
HOFFMAN BOX	50 LBS.
TRANSFORMER & DISCONNECT	350 LBS.
TOTAL:	<u>5,450 LBS.</u>

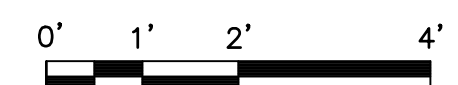
STRUCTURAL ANALYSIS BASED ON LOADING SHOWN ABOVE. NO ADDITIONAL EQUIPMENT SHALL BE ADDED WITHOUT ADDITIONAL ANALYSIS.



- NOTE:
- CONTRACTOR TO VERIFY WITH C.M. FOR FINAL MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.

**COMMSCOPE EQUIPMENT CABINETS**

SCALE: 1/4"=1' FOR 11"x17"  
1/2"=1' FOR 22"x34"



12" CABLE TRAY PARTS-BOM
NEWTON INSTRUMENT #0020032130, 12-INCH CABLE TRAY
NEWTON INSTRUMENT #0021170000, CABLE TRAY FINISH CAP
NEWTON INSTRUMENT #0020110010, SPLICE CLAMP
NEWTON INSTRUMENT #0020130010, CORNER CLAMP
NEWTON INSTRUMENT #0020660030, CEILING HANGER BRACKET
NEWTON INSTRUMENT #0020460010, CABLE RACK HANGER
NEWTON INSTRUMENT #2030211110, 1/2"x6' TREADED ROD
NEWTON INSTRUMENT #2111990200, 1/2" THREADED ROD END CAP
NEWTON INSTRUMENT #0030530210, 1/2" THREADED ROD COUPLER
NEWTON INSTRUMENT #0030140710, 1/2"-11 NUT
NEWTON INSTRUMENT #0020830230, WALL TERMINATION BRACKET
NEWTON INSTRUMENT #2126590030, POWER CABLE BRACKET
NEWTON INSTRUMENT #0020850630, 12" END CLOSING BAR

- CABLE TRAY NOTES:
- COORDINATE FINAL TRAY CONFIGURATIONS WITH CM PRIOR TO CONSTRUCTION.
  - NOT ALL REQUIRED PARTS ARE SPECIFIED. FIELD VERIFY CABLE TRAY REQUIREMENTS AND COORDINATE WITH MANUFACTURER.
  - FINISH SPECIFIED IS 30=TELEPHONE EQUIPMENT GRAY. VERIFY FINAL FINISH WITH CM.

**verizon**  
WIRELESS

VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

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**Dewberry**

Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY:	MR
REVIEWED BY:	MFT
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50150857
SITE LOCATION CODE	

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SITE ADDRESS

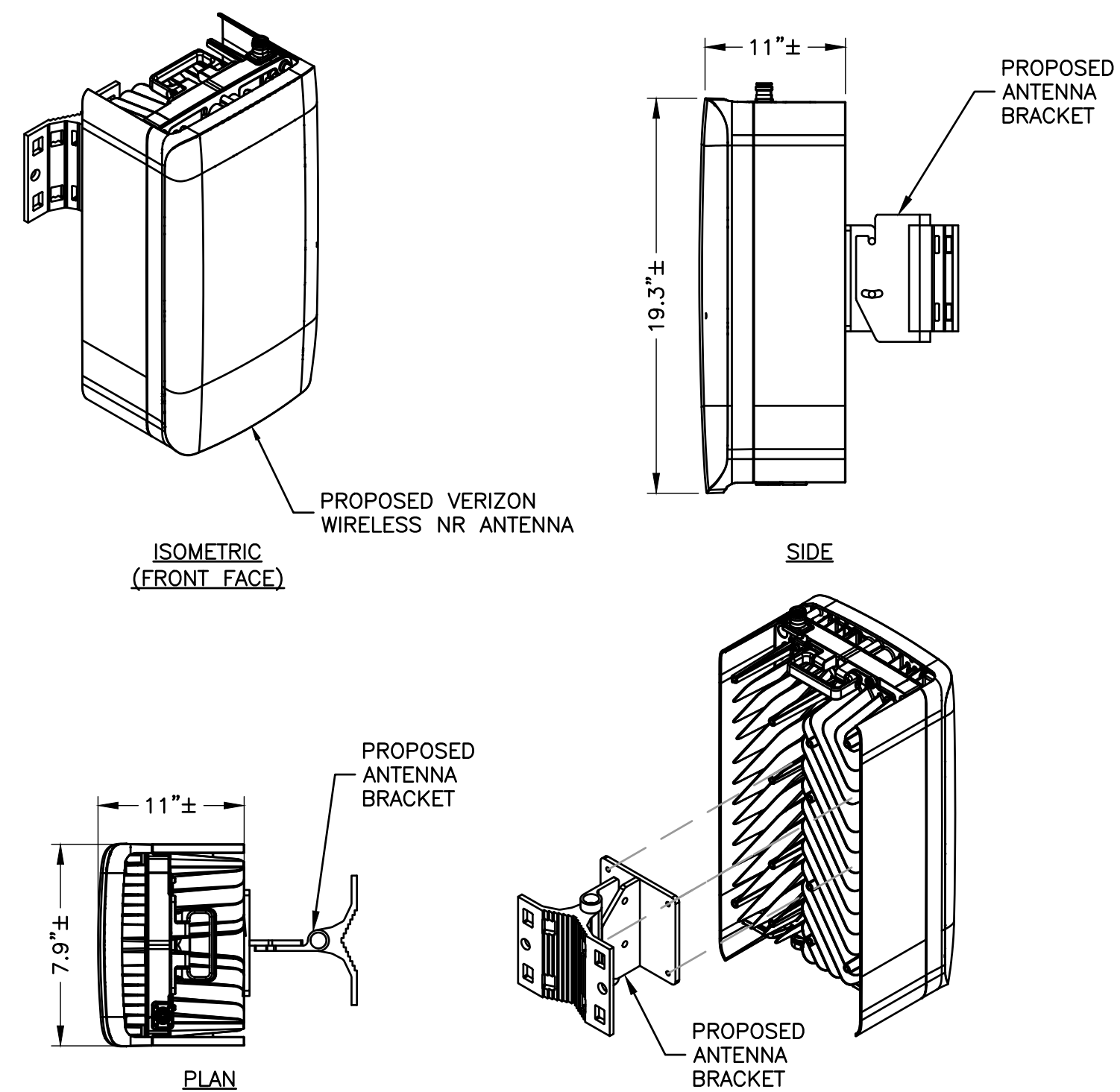
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

ELECTRICAL ROOM &  
EQUIPMENT PLAN

SHEET NUMBER

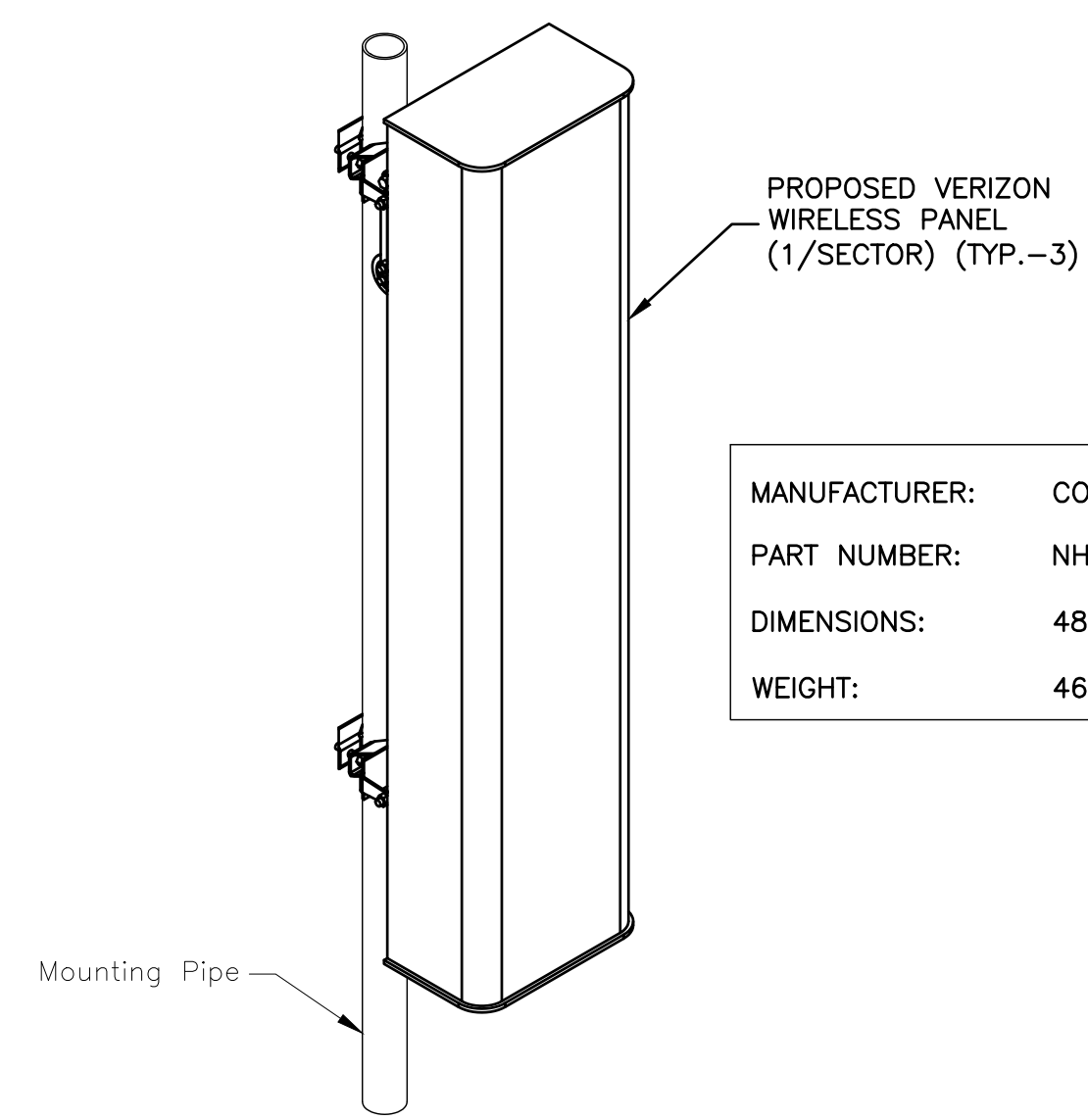
C-6



MODEL: VZ-AT1K04  
 DIMENSIONS: 19.3"H X 7.9"W X 11"D  
 WEIGHT: 33.0 LBS

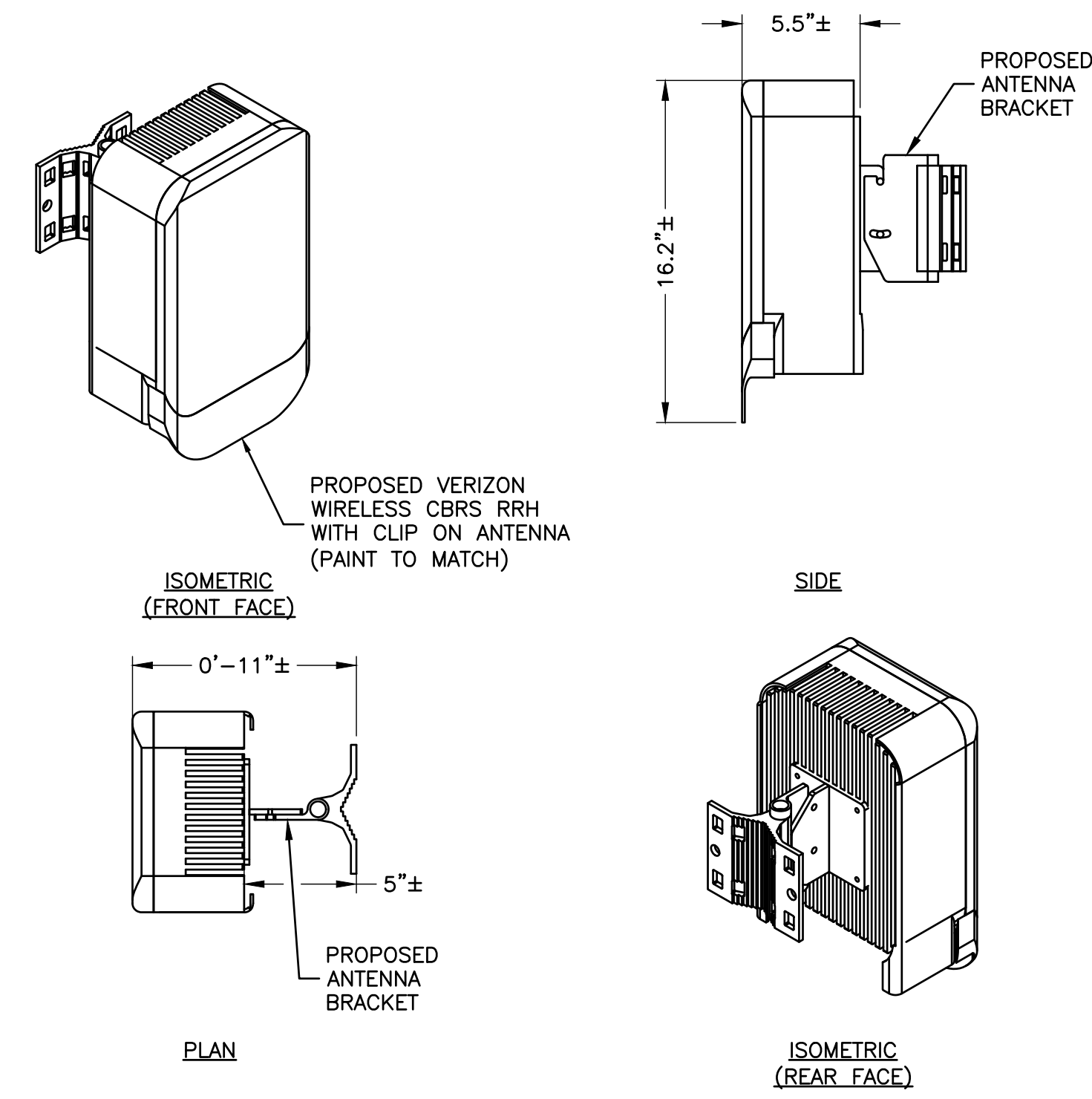
- NOTES:**
1. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. USE APPROPRIATE MOUNTING HARDWARE FOR CONSTRUCTION TYPE.
  2. ANTENNAS ARE SHOWN PERPENDICULAR TO BUILDING FACADE. ANTENNAS WILL BE REQUIRED TO BE PANNED TO MEET REQUIRED AZIMUTHS.
  3. CONTRACTOR TO UTILIZE 3M WRAP FOR ALL ANTENNAS TO MATCH SURROUNDING AREAS. INSTALL 3M WRAP ON ANTENNAS PER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.

**AT1K04 ANTENNA DETAIL**  
 SCALE: N.T.S.



MANUFACTURER: COMMSCOPE  
 PART NUMBER: NHHS4-65A-R3B  
 DIMENSIONS: 48.0"H X 18.0"W X 7.0"D  
 WEIGHT: 46.3 LBS (W/OUT MOUNTING KIT)

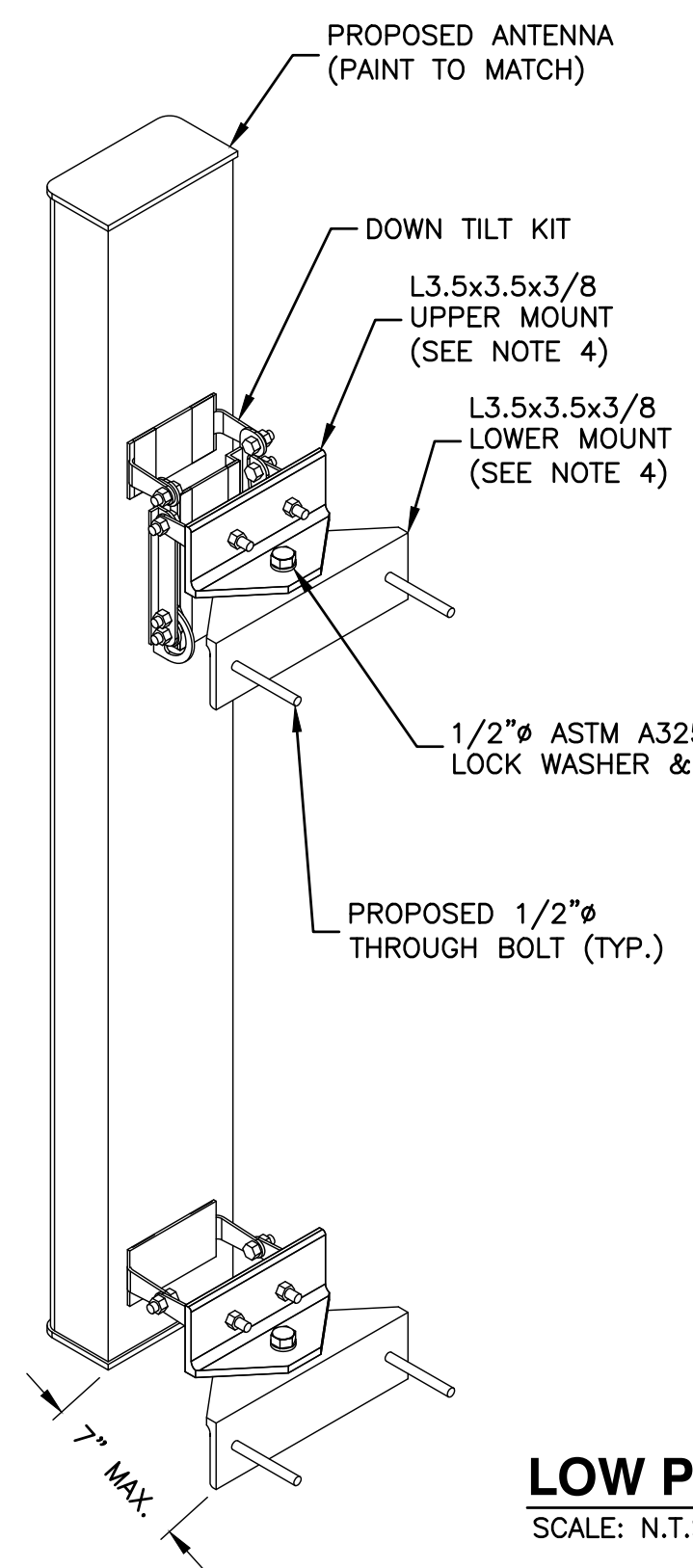
**PIPE MOUNTED ANTENNA DETAIL**  
 SCALE: N.T.S.



MODEL: XXDWM-12.5-65-8T-CBRS  
 DIMENSIONS: 12.1"H X 8.5"W X 4.1"D  
 WEIGHT: 18.6 LBS (NOT TO EXCEED)

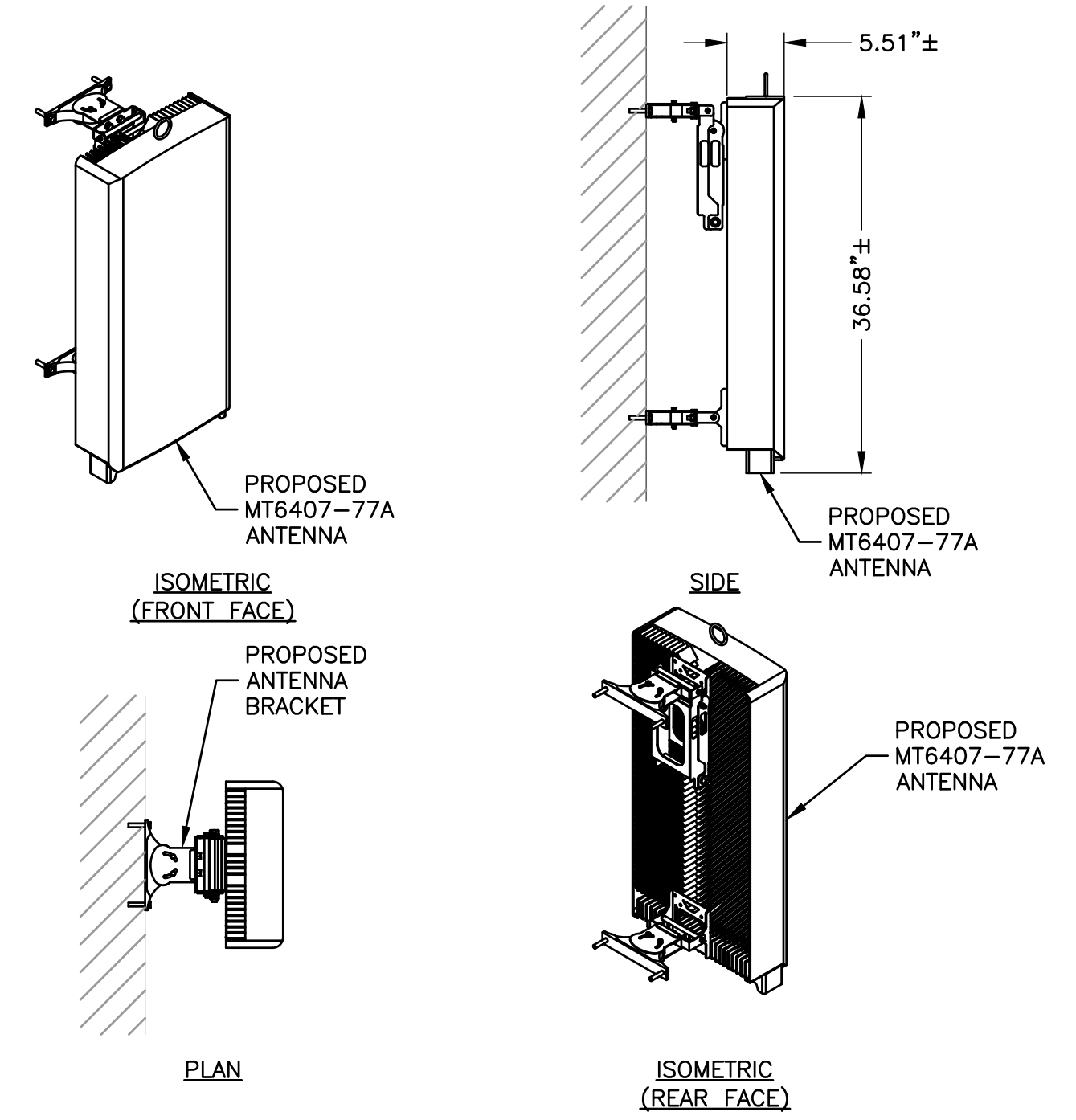
- NOTES:**
1. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. USE APPROPRIATE MOUNTING HARDWARE FOR CONSTRUCTION TYPE.
  2. ANTENNAS ARE SHOWN PERPENDICULAR TO BUILDING FACADE. ANTENNAS WILL BE REQUIRED TO BE PANNED TO MEET REQUIRED AZIMUTHS.
  3. CONTRACTOR TO UTILIZE 3M WRAP FOR ALL ANTENNAS TO MATCH SURROUNDING AREAS. INSTALL 3M WRAP ON ANTENNAS PER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.

**CBRS RRH WITH CLIP ANTENNA DETAIL**  
 SCALE: N.T.S.



MODEL: NHH-45A-R2B  
 DIMENSIONS: 48.0"H X 18.0"W X 7.0"D  
 WEIGHT: 46.3 LBS (WITHOUT BRACKET)

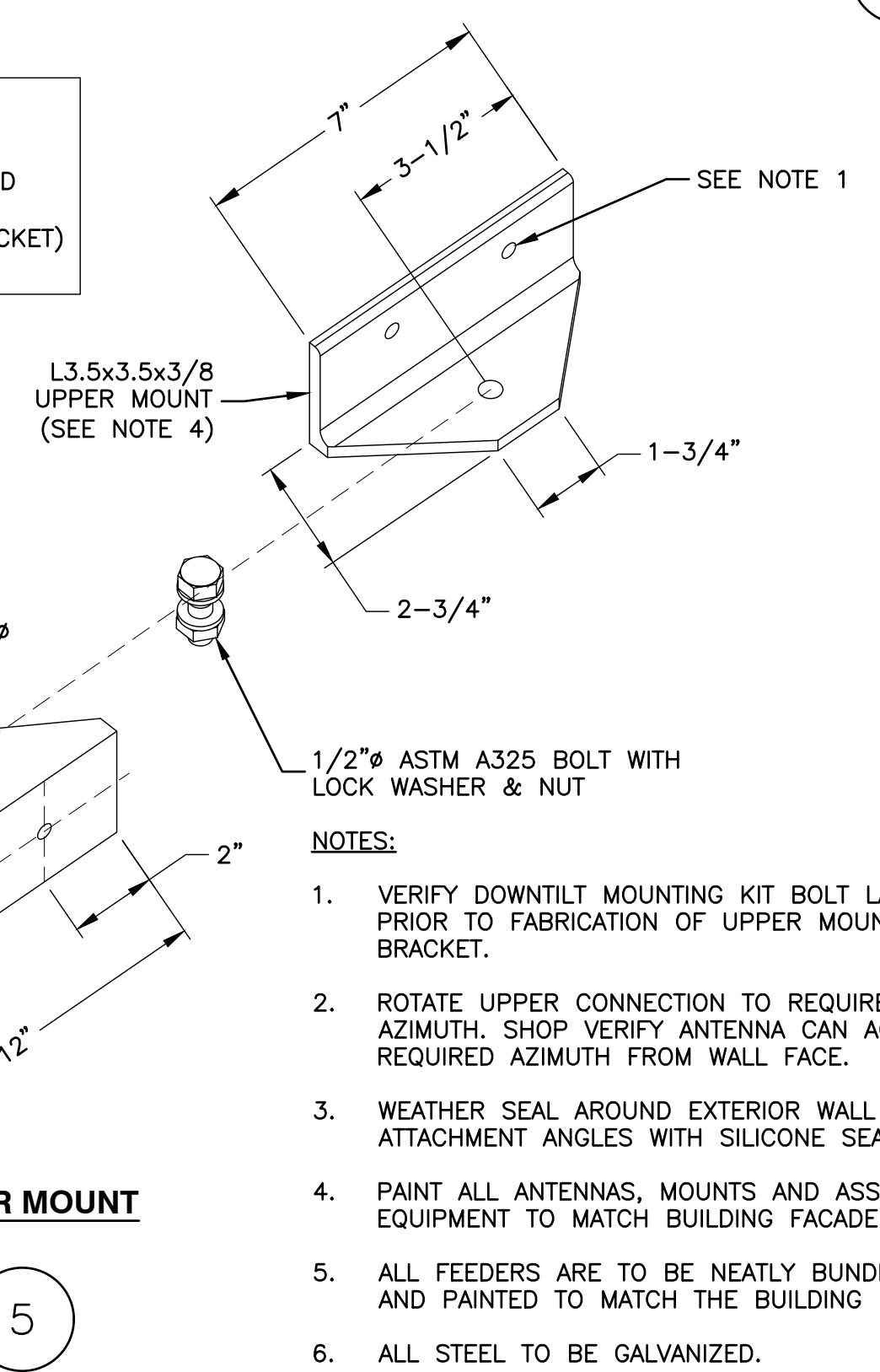
**LOW PROFILE FACADE MOUNT**  
 SCALE: N.T.S.



MODEL: MT6407-77A  
 DIMENSIONS: 35.1"H X 16.1"W X 5.5"D (NOT TO EXCEED)  
 WEIGHT: 87.1 LBS (NOT TO EXCEED)

- NOTES:**
1. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. USE APPROPRIATE MOUNTING HARDWARE FOR CONSTRUCTION TYPE.
  2. ANTENNAS ARE SHOWN PERPENDICULAR TO BUILDING FACADE. ANTENNAS WILL BE REQUIRED TO BE PANNED TO MEET REQUIRED AZIMUTHS.
  3. CONTRACTOR TO UTILIZE 3M WRAP FOR ALL ANTENNAS TO MATCH SURROUNDING AREAS. INSTALL 3M WRAP ON ANTENNAS PER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.

**MT6407-77A ANTENNA DETAIL**  
 SCALE: N.T.S.



- NOTES:**
1. VERIFY DOWNTILT MOUNTING KIT BOLT LAYOUT PRIOR TO FABRICATION OF UPPER MOUNT BRACKET.
  2. ROTATE UPPER CONNECTION TO REQUIRED AZIMUTH. SHOP VERIFY ANTENNA CAN ACHIEVE REQUIRED AZIMUTH FROM WALL FACE.
  3. WEATHER SEAL AROUND EXTERIOR WALL ATTACHMENT ANGLES WITH SILICONE SEALANT.
  4. PAINT ALL ANTENNAS, MOUNTS AND ASSOCIATED EQUIPMENT TO MATCH BUILDING FACADE.
  5. ALL FEEDERS ARE TO BE NEATLY BUNDLED AND PAINTED TO MATCH THE BUILDING FACADE.
  6. ALL STEEL TO BE GALVANIZED.



VERIZON WIRELESS  
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**SOUTH END 6 MA**

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541249

SITE ADDRESS

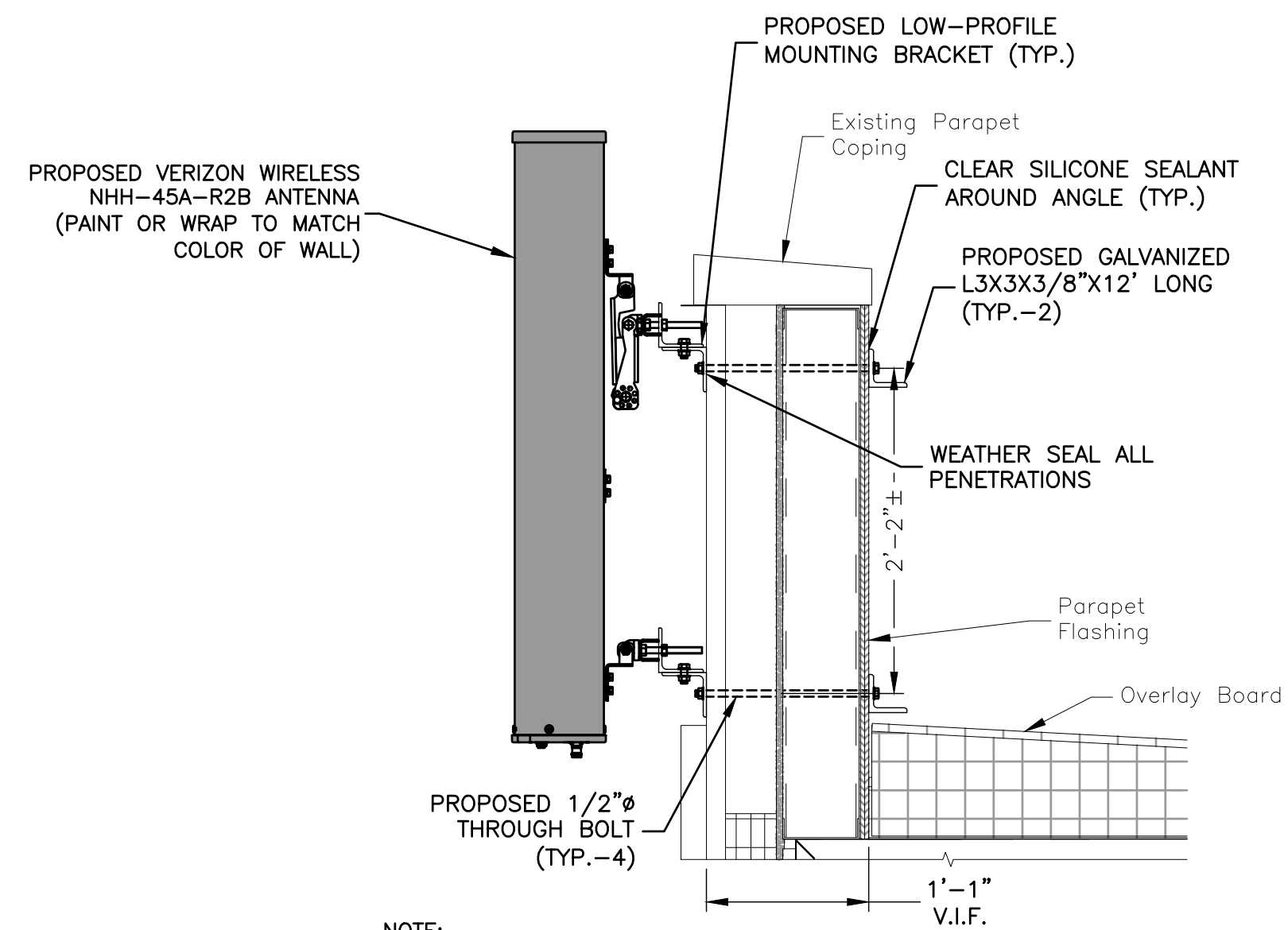
55 TRAVELER STREET  
 BOSTON, MA 02118

SHEET TITLE

CONSTRUCTION DETAILS-1

SHEET NUMBER

C-7

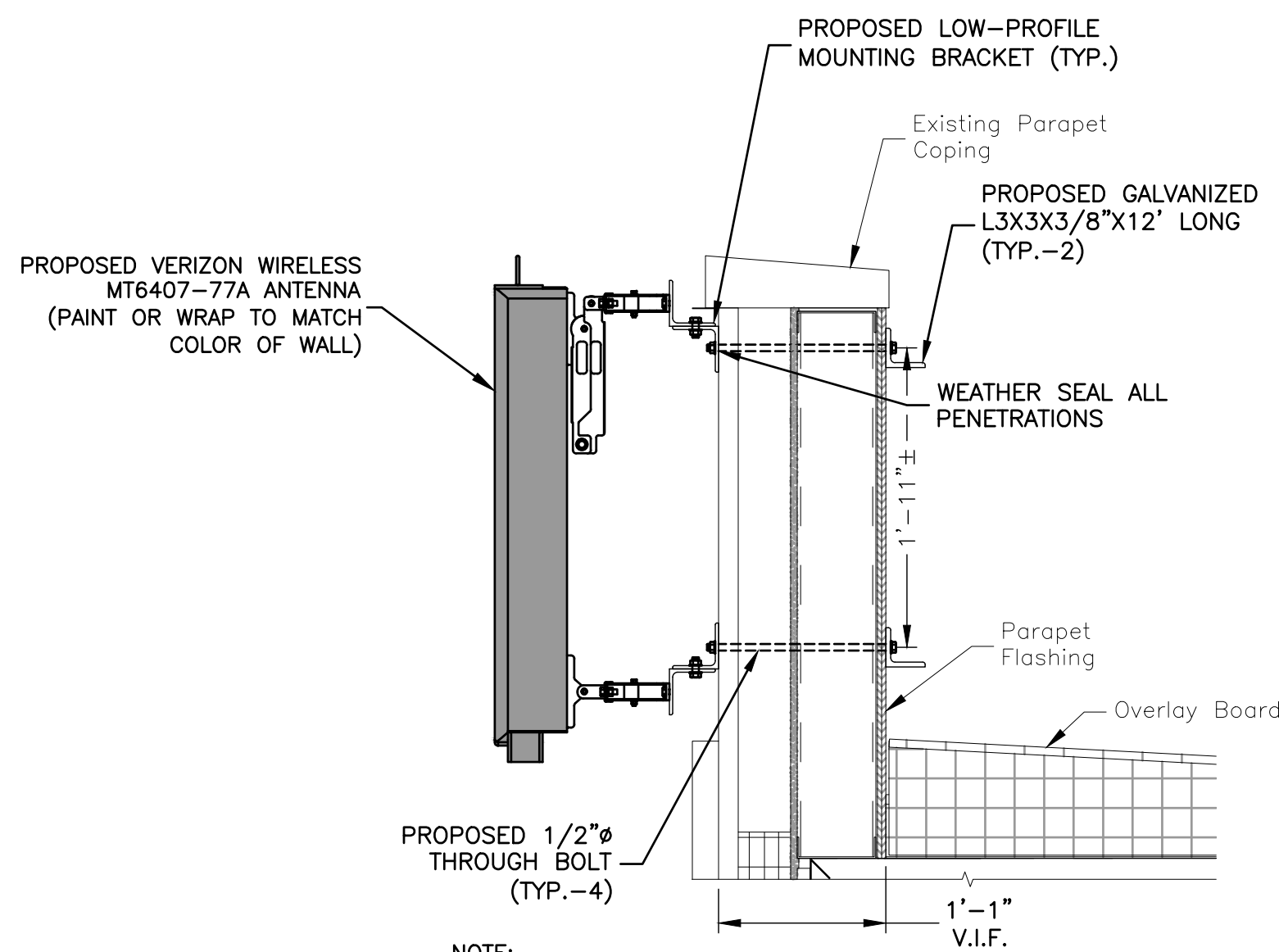
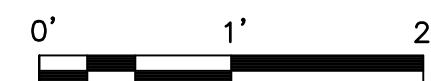


**NOTE:**

- SECTION BASED PLANS BY GERDING EDLEN & ADD INC. FOR 275 ALBANY STREET, BOSTON MA 02118, DATED 10/21/2013, DETAIL 9/SHEET 401. CONTRACTOR TO CONTACT DEWBERRY ENGINEERS IMMEDIATELY IF WALL DESIGN DIFFERS FROM ABOVE DETAIL.
- DO NOT OVER TIGHTEN THROUGH BOLT.

**FACADE MOUNTED PANEL ANTENNA**

SCALE: 1/2"=1' FOR 11"x17"  
1"=1' FOR 22"x34"

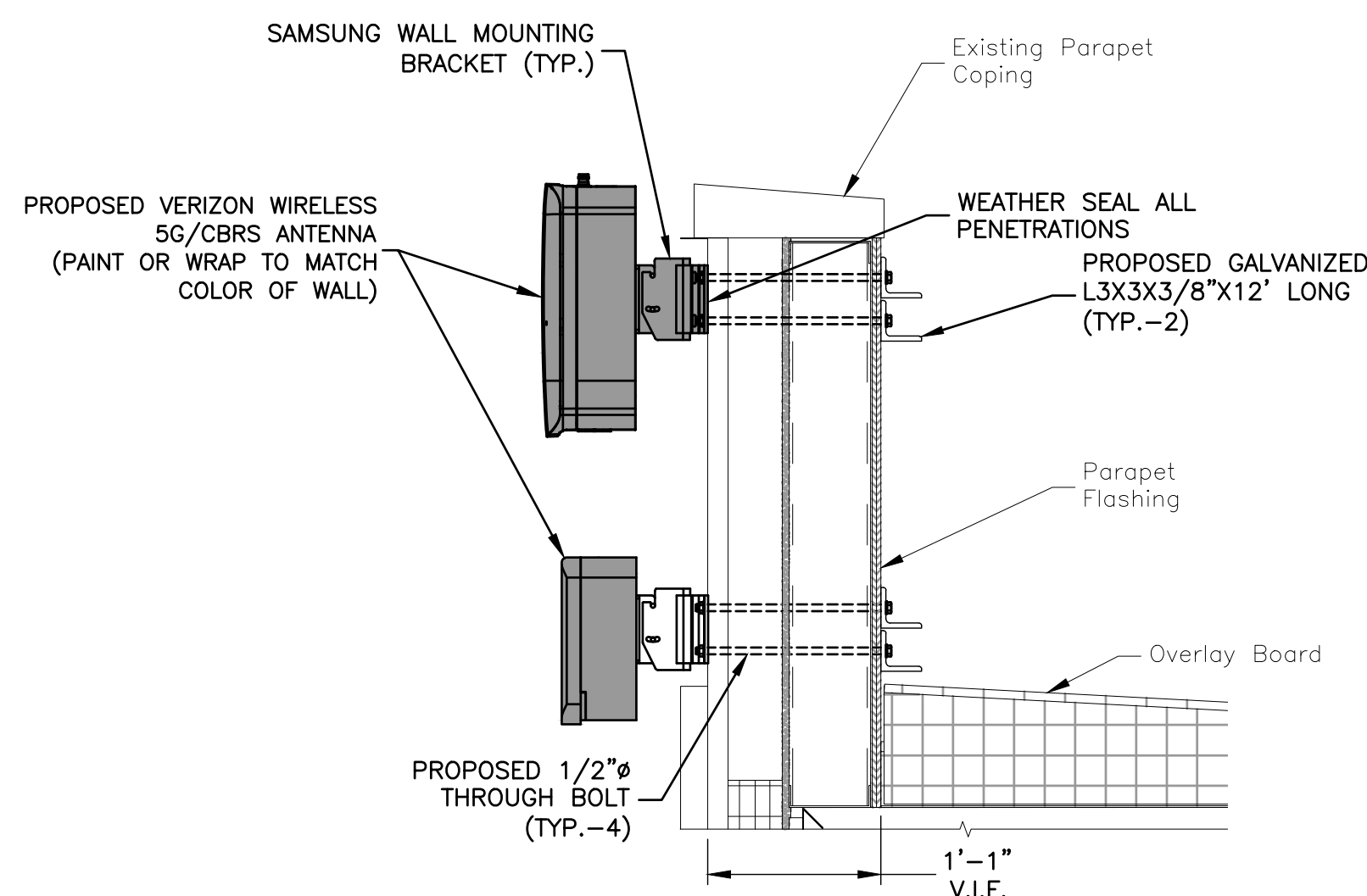
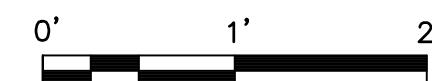


**NOTE:**

- SECTION BASED PLANS BY GERDING EDLEN & ADD INC. FOR 275 ALBANY STREET, BOSTON MA 02118, DATED 10/21/2013, DETAIL 9/SHEET 401. CONTRACTOR TO CONTACT DEWBERRY ENGINEERS IMMEDIATELY IF WALL DESIGN DIFFERS FROM ABOVE DETAIL.
- DO NOT OVER TIGHTEN THROUGH BOLT.

**FACADE MOUNTED LSUB6 ANTENNA**

SCALE: 1/2"=1' FOR 11"x17"  
1"=1' FOR 22"x34"

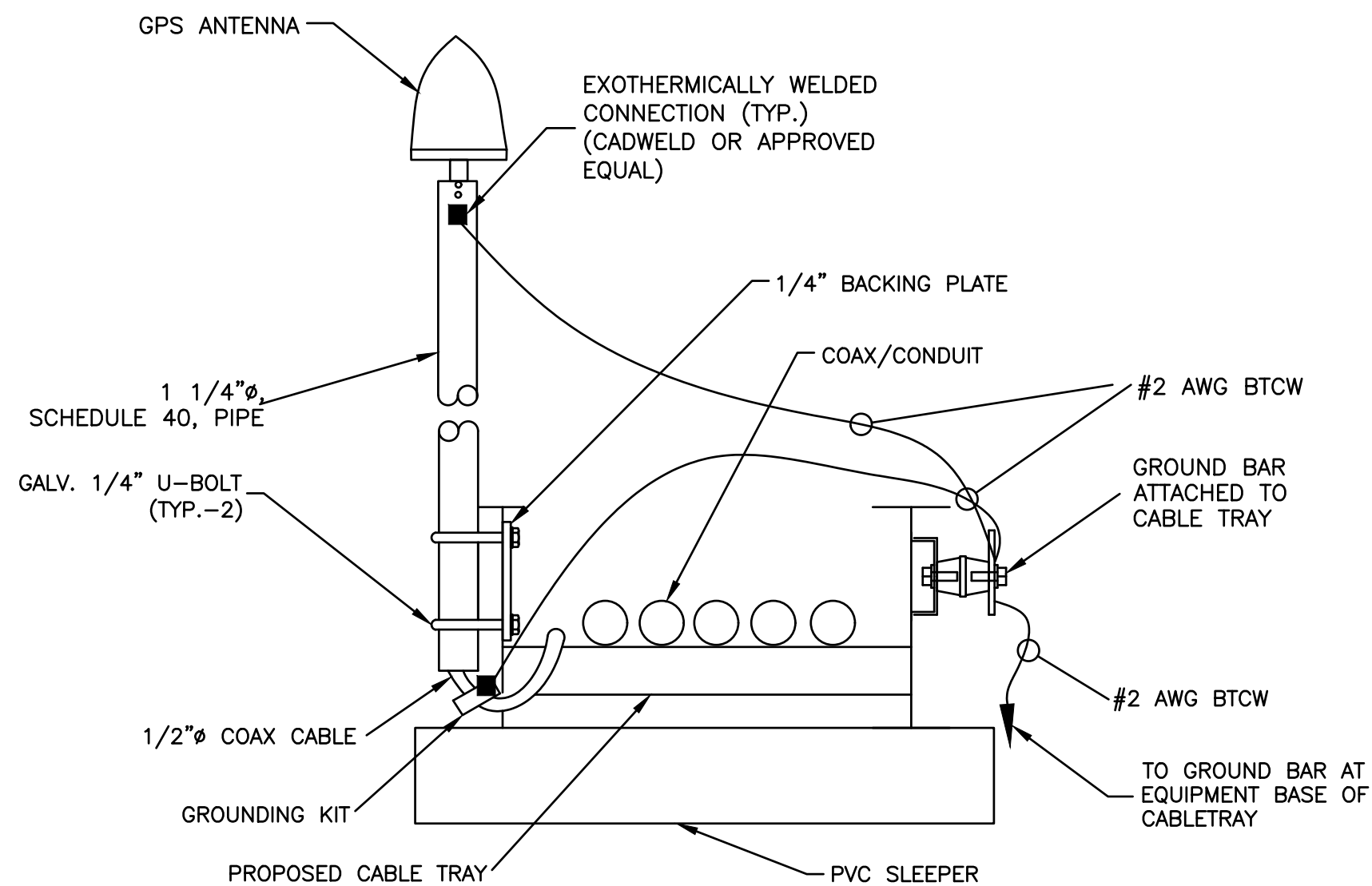
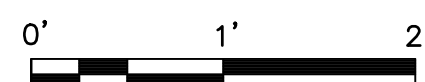


**NOTE:**

- SECTION BASED PLANS BY GERDING EDLEN & ADD INC. FOR 275 ALBANY STREET, BOSTON MA 02118, DATED 10/21/2013, DETAIL 9/SHEET 401. CONTRACTOR TO CONTACT DEWBERRY ENGINEERS IMMEDIATELY IF WALL DESIGN DIFFERS FROM ABOVE DETAIL.
- DO NOT OVER TIGHTEN THROUGH BOLT.

**FACADE MOUNTED 5G/CBRS ANTENNA**

SCALE: 1/2"=1' FOR 11"x17"  
1"=1' FOR 22"x34"



**GPS ANTENNA MOUNT**

SCALE: N.T.S.



VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

NO.	DATE	DESCRIPTION
2	11/29/22	FOR SUBMITTAL
1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT



Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: MR

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50150857

SITE LOCATION CODE

541249

SITE ADDRESS

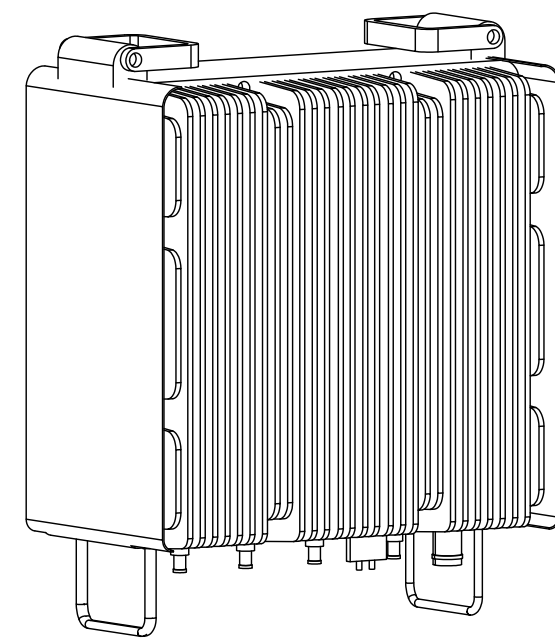
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

CONSTRUCTION DETAILS-II

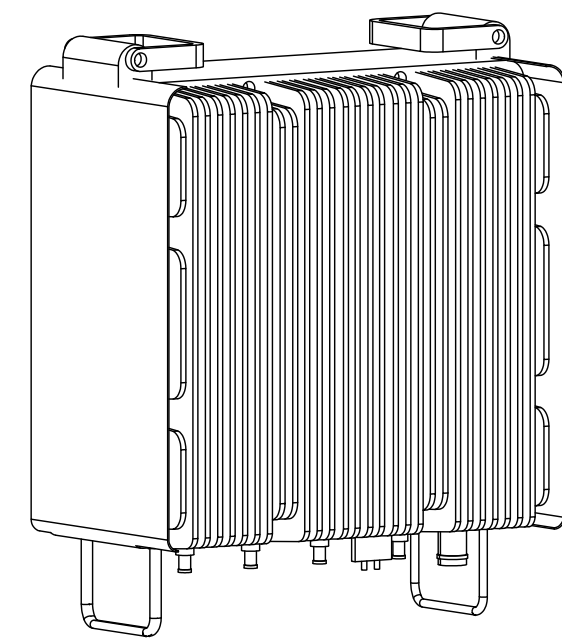
SHEET NUMBER

C-8



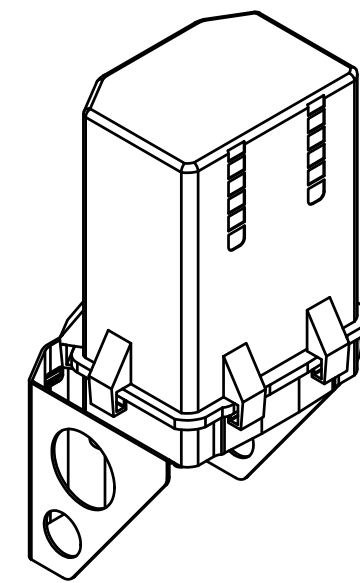
LTE 700/850

MANUFACTURER:	SAMSUNG
MODEL:	700/850MHZ MACRO RADIO RF4440d-13A
DIMENSIONS:	14.9"H X 14.9"W X 9.0"D
WEIGHT:	70.3 LBS



LTE PCS/AWS

MANUFACTURER:	SAMSUNG
MODEL:	AWS/PCS MACRO RADIO RF4439d-25A
DIMENSIONS:	14.9"H X 14.9"W X 10.0"D
WEIGHT:	74.7 LBS



SURGE

MANUFACTURER:	RAYCAP
MODEL:	LARGE JUNCTION BOX
DIMENSIONS:	28.9"H X 15.7"W X 10.3"D
WEIGHT:	32.0 LBS

**MOUNTING CLEARANCE**

- TOP: ≥ 12"
- SIDES: ≥ 8"
- BOTTOM: ≥ 16"
- FRONT: ≥ 36"

SEE MANUFACTURER SPECIFICATIONS & RECOMMENDATIONS.

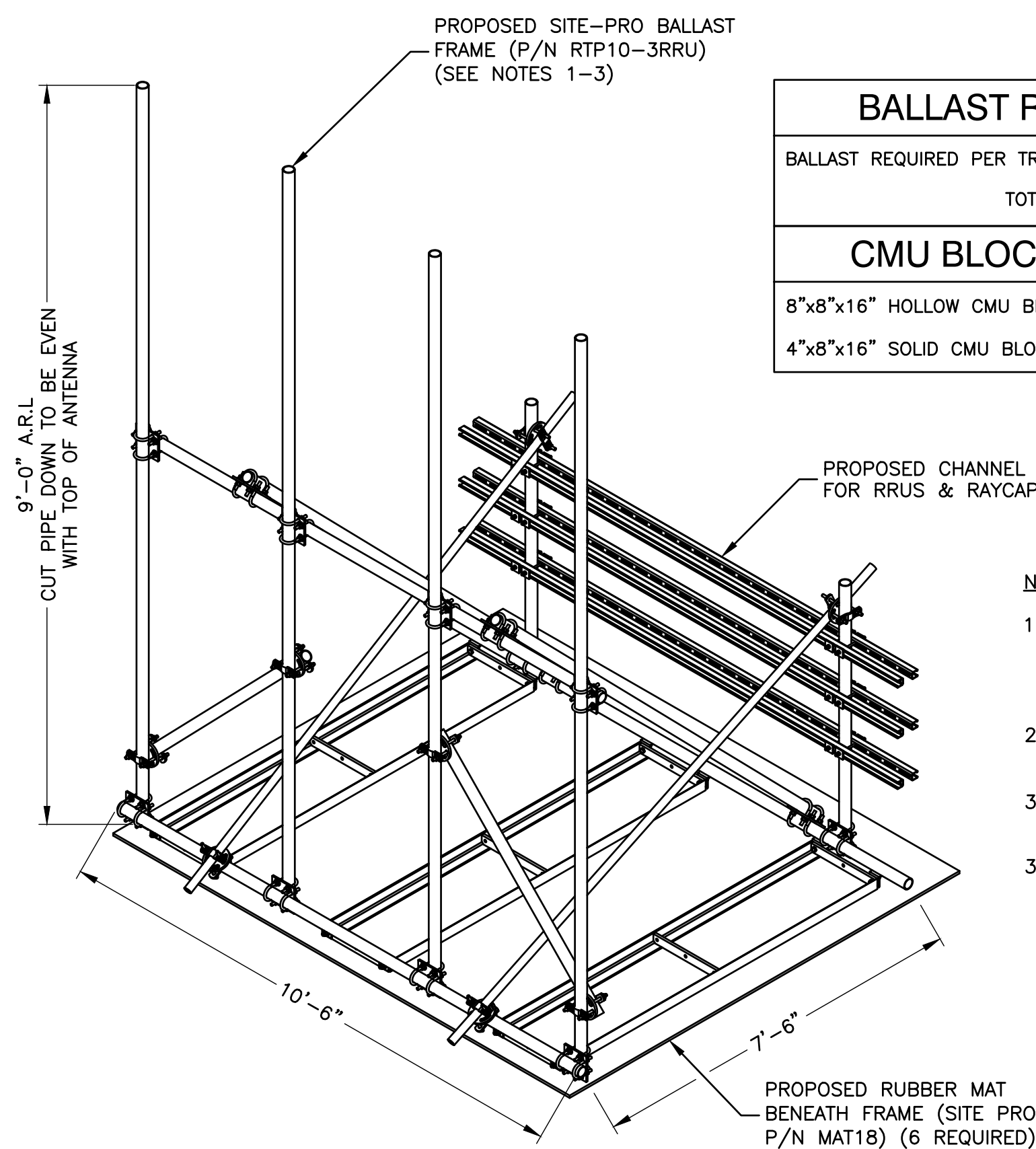
**NOTES:**

1. CONTRACTOR TO VERIFY WITH CONSTRUCTION MANAGER FOR FINAL MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.

**EQUIPMENT DETAILS**

SCALE: N.T.S.

1



**BALLAST REQUIRED**

BALLAST REQUIRED PER TRAY = 274 LBS
TOTAL = 822 LBS

**CMU BLOCK WEIGHT**

8"x8"x16" HOLLOW CMU BLOCK = 37 LB EACH
4"x8"x16" SOLID CMU BLOCK = 34 LB EACH

**NOTES:**

1. INSTALL PER MANUFACTURERS RECOMMENDATIONS & IN ACCORDANCE WITH DEWBERRY ENGINEERS INC. STRUCTURAL ANALYSIS DATED 08/10/21.
2. CONTRACTOR TO EVENLY DISTRIBUTE BALLAST ACROSS (3) TRAYS OF BALLAST FRAME.
3. CONTRACTOR TO INSTALL RUBBER MAT BENEATH PROPOSED BALLAST FRAME.
3. CONTRACTOR TO INSTALL BALLAST TIE DOWNS.

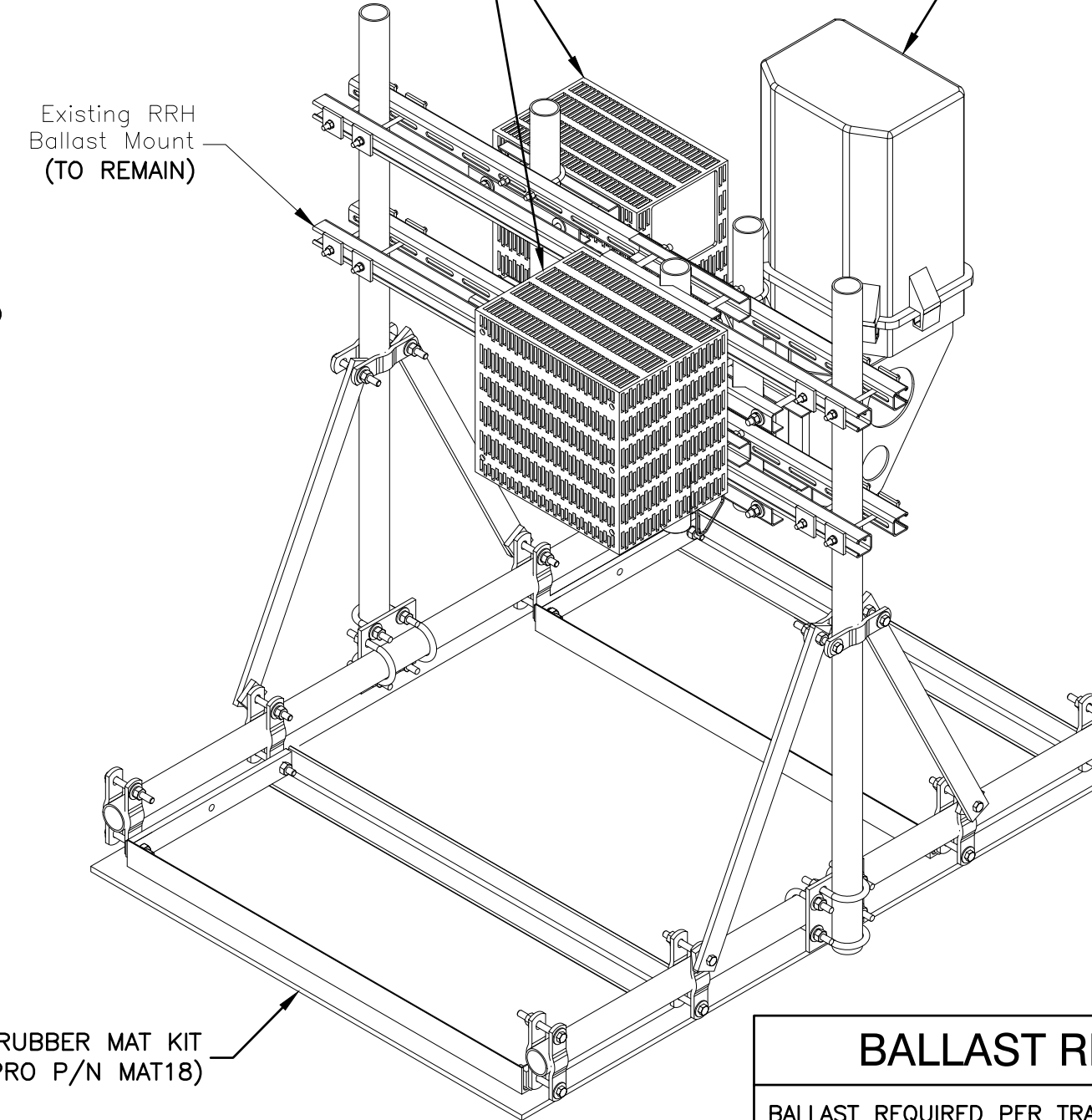
**BALLAST FRAME**

SCALE: N.T.S.

3

PROPOSED VERIZON WIRELESS RRHS MOUNTED ON BALLAST FRAME (2/SECTOR)

PROPOSED VERIZON WIRELESS OVP MOUNTED ON BALLAST FRAME (1/SECTOR)



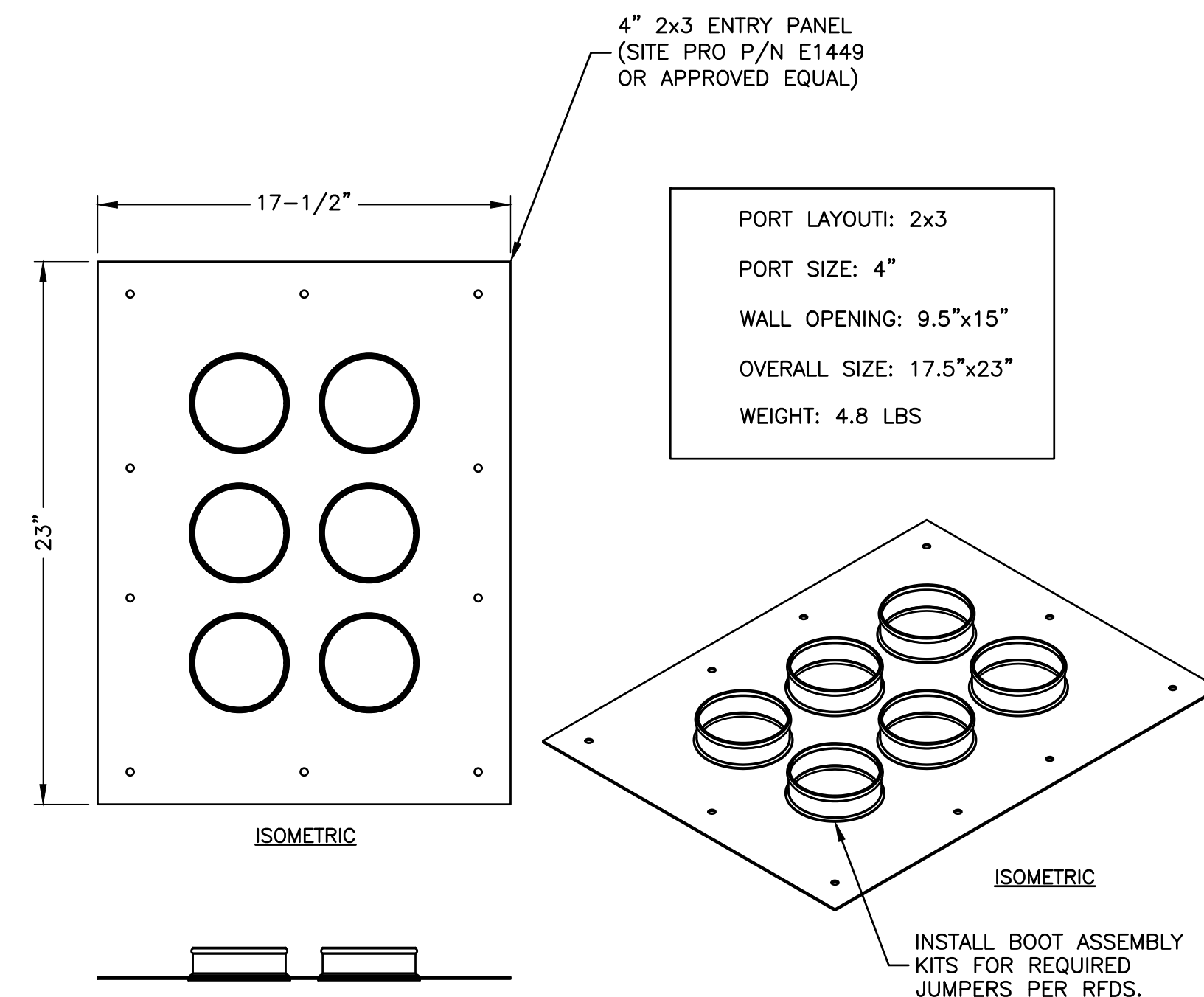
**BALLAST REQUIRED**

BALLAST REQUIRED PER TRAY = 5 LBS
TOTAL = 10 LBS

**RRH BALLAST MOUNT DETAIL**

SCALE: N.T.S.

2



**NOTES:**

1. CONTRACTOR TO THOROUGHLY DRY AREA BEFORE CORING, INSTALLING AND SEALING CABLEPORT & BOOTS.
2. CONTRACTOR TO INSTALL BOOT ASSEMBLY KITS FOR REQUIRED JUMPERS PER RFDS.
3. CONTRACTOR TO FILL THE BOOT CAVITY W/ BOOT SEALER TO FORM A CONICAL SHAPE TO ALLOW WATER RUN OFF.
4. WATERPROOF ALL EDGES AND HOLES.

**COAX/JUMPER ENTRY PANEL DETAIL**

SCALE: N.T.S.

4



VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

2	11/29/22	FOR SUBMITTAL
1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT



Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: MR

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50150857

SITE LOCATION CODE

541249

SITE ADDRESS

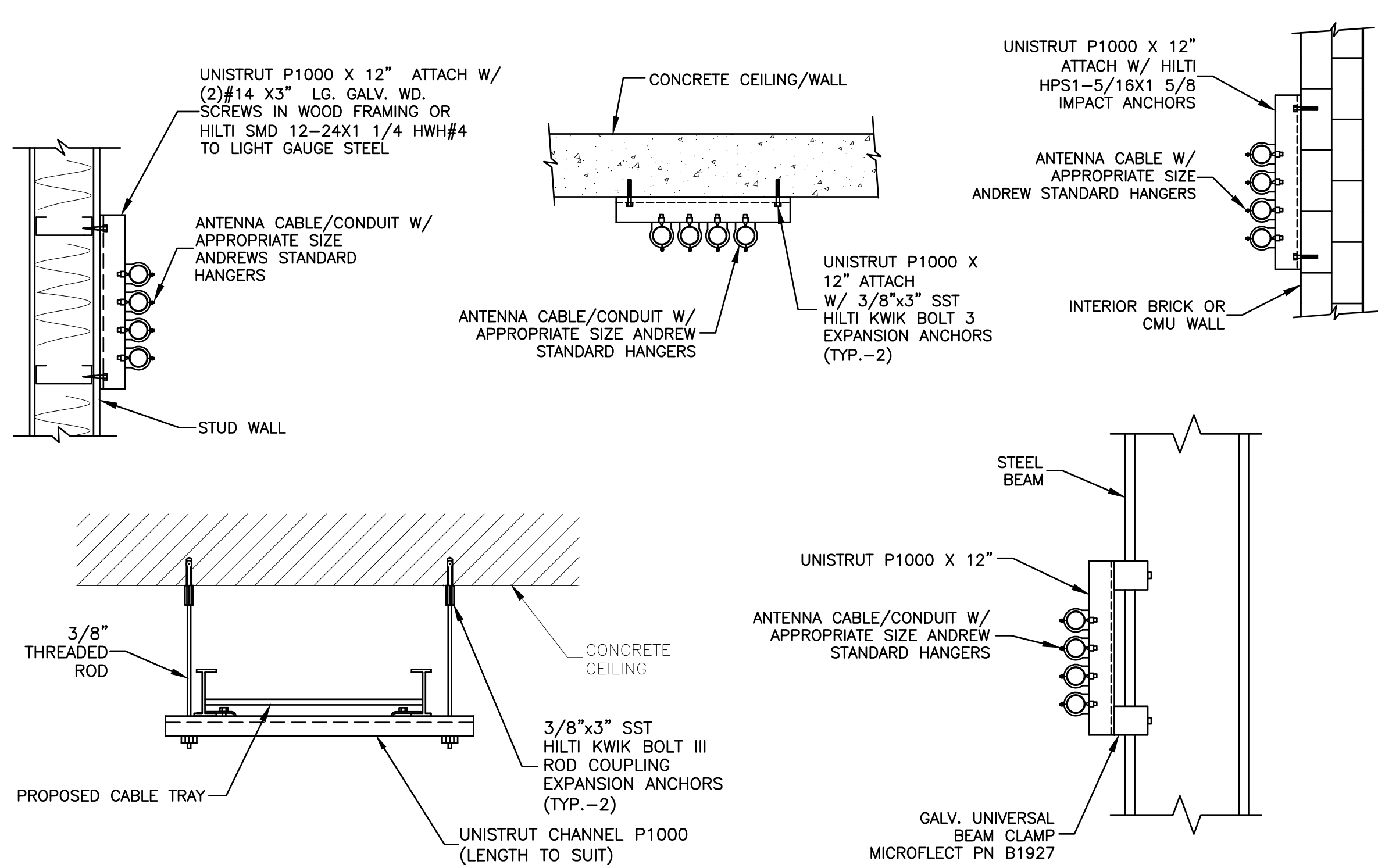
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

CONSTRUCTION DETAILS-III

SHEET NUMBER

C-9



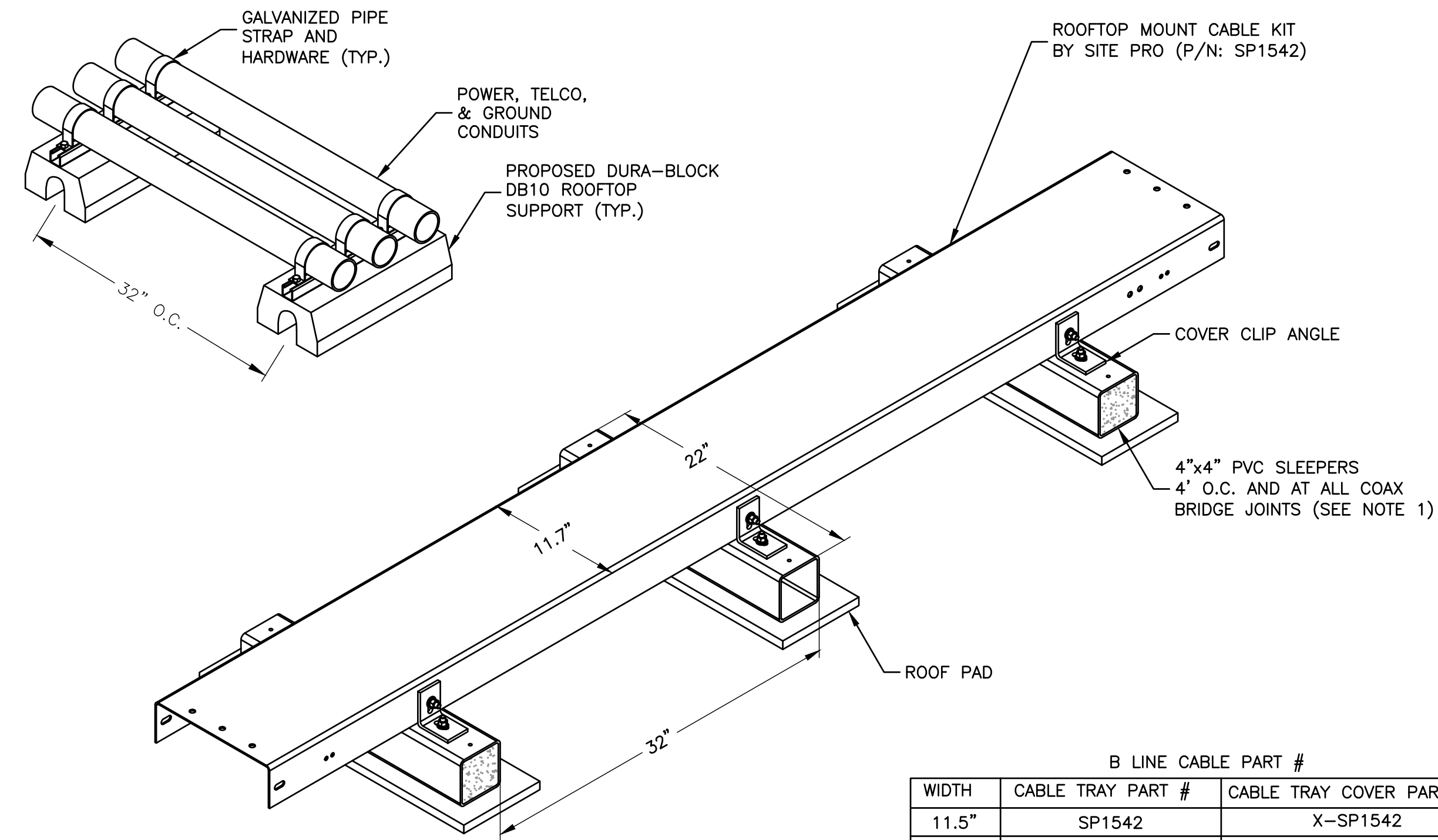
**NOTES:**

1. ALL COAX SUPPORT SPACING: 4'-0" MAX.
2. ALL CONDUIT SUPPORT SPACING: 10'-0" MAX.

**CABLE/CONDUIT SUPPORT**

SCALE: N.T.S.

1



**NOTE:**

1. EVERY OTHER PVC SLEEPER IS TO BE FILLED WITH CONCRETE.

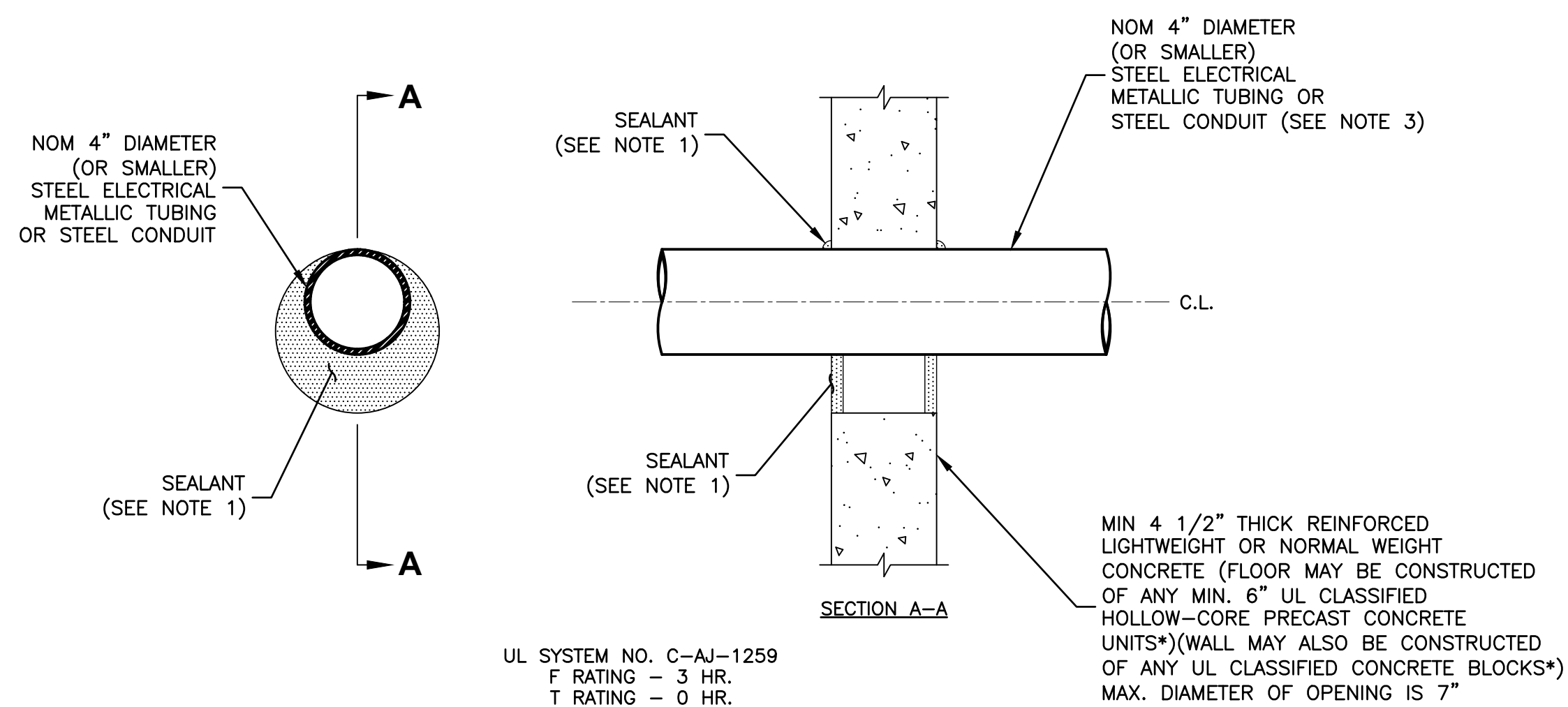
**CABLE TRAY DETAIL**

SCALE: N.T.S.

2

B LINE CABLE PART #

WIDTH	CABLE TRAY PART #	CABLE TRAY COVER PART #
11.5"	SP1542	X-SP1542
21.5"	SP1543	X-SP1543
33"	SP1595	X-SP1542, X-SP1543



**NOTES:**

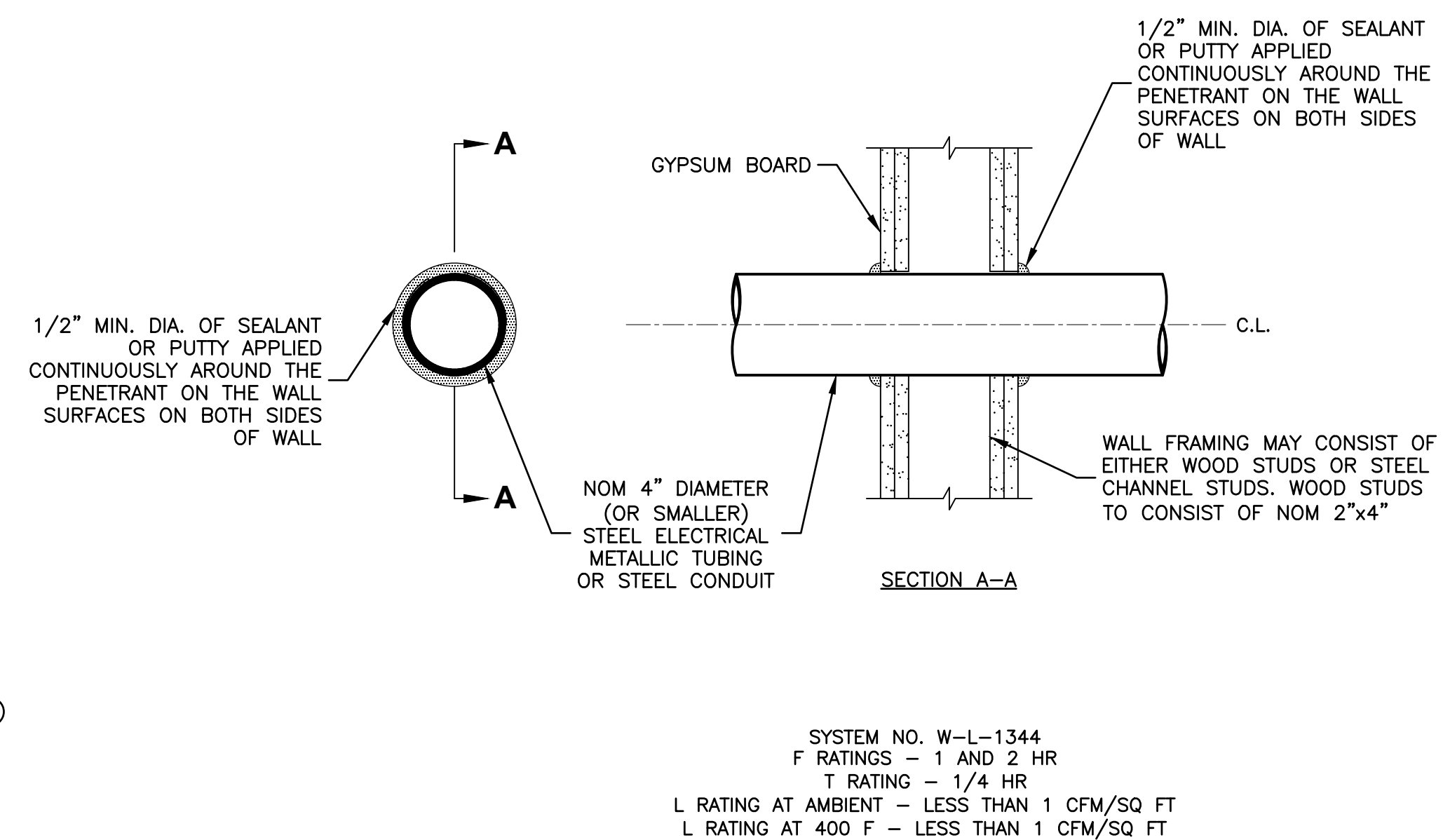
1. FILL VOID OR CAVITY MATERIAL\* - SEALANT - MIN. 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF FLOOR OR WALL AT THE POINT CONTACT LOCATION BETWEEN PENETRATING ITEM AND CONCRETE, A MIN. 1/4" THICK BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/ PENETRATING ITEM INTERFACE ON BOTH SIDES OF FLOOR OR WALL.
2. FORMING MATERIAL - (OPTIONAL, NOT SHOWN) - MINERAL WOOL BATT PACKING MATERIAL OR POLYURETHANE BACKER ROD FRICTION FITTED INTO OPENING AND RECESSED FROM FLOOR OR WALL SURFACES AS REQUIRED TO ACCOMMODATE THICKNESS OF FILL MATERIAL.
3. ONE CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE CONDUIT AND THE PERIPHERY OF THE OPENING SHALL BE A MIN. OF 0" (POINT OF CONTACT) TO A MAX. OF 3". CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

\* BEARING THE UL CLASSIFICATION MARK.

**CORING DETAIL**

SCALE: N.T.S.

3



**NOTES:**

1. THE 1 AND 2 HOUR FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS & MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL & PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.
2. 5" DIAMETER OPENING MAX.

**SECTION - THROUGH PENETRATION FIRESTOP SYSTEM**

SCALE: N.T.S.

4

**verizon**  
WIRELESS  
VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

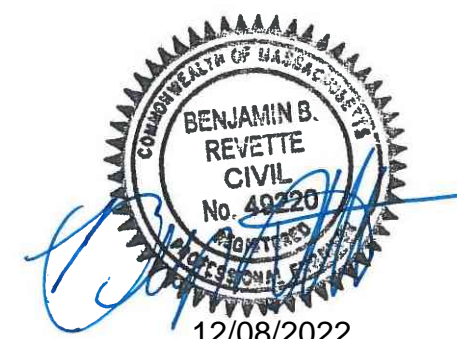
**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

NO.	DATE	DESCRIPTION
2	11/29/22	FOR SUBMITTAL
1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT

**Dewberry**

Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY:	MR
REVIEWED BY:	MFT
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50150857
SITE LOCATION CODE	

541249

SITE ADDRESS  
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

CONSTRUCTION DETAILS-IV

SHEET NUMBER

C-10



VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

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1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT



Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



FINAL EQUIPMENT CONFIGURATION										
SECTOR	POSITION	TECHNOLOGY	ANTENNA MODEL	VENDOR	RRH (QTY./MODEL)	CENTERLINE	AZIMUTH	OVP	HYBRID CABLE TYPE	FEED LINE LENGTH*
ALPHA	A1	LTE 700/850	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B5/B13 RF4439D-25A	111'-7"±	25°	(1) (P) 12-OVP	(1) (P) 12X24 LI HYBRID	130'±
	A2	LTE 1900/AWS	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B2/B66A RF4440D-13A	111'-7"±	25°			
	A3	5G	(P) MT6407-77A	SAMSUNG	-	111'-1"±	25°			
	A4	5G	(P) VZ-AT1K04	SAMSUNG	-	111'-11"±	25°			
	A5	CBRS	(P) XXDWMM-12.5-65-8T	SAMSUNG	-	109'-11"±	25°			
BETA	B1	LTE 700/850	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B5/B13 RF4439D-25A	131'-3"±	110°	(1) (P) 12-OVP	(1) (P) 12X24 LI HYBRID	100'±
	B2	LTE 1900/AWS	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B2/B66A RF4440D-13A	131'-3"±	110°			
	B3	5G	(P) MT6407-77A	SAMSUNG	-	131'-8"±	110°			
	B4	5G	(P) VZ-AT1K04	SAMSUNG	-	132'-5"±	110°			
	B5	CBRS	(P) XXDWMM-12.5-65-8T	SAMSUNG	-	130'-2"±	110°			
GAMMA	G1	LTE 700/850	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B5/B13 RF4439D-25A	131'-3"±	195°	(1) (P) 12-OVP	(1) (P) 12X24 LI HYBRID	105'±
	G2	LTE 1900/AWS	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B2/B66A RF4440D-13A	131'-3"±	195°			
	G3	5G	(P) MT6407-77A	SAMSUNG	-	131'-8"±	195°			
	G4	5G	(P) VZ-AT1K04	SAMSUNG	-	132'-5"±	195°			
	G5	CBRS	(P) XXDWMM-12.5-65-8T	SAMSUNG	-	130'-2"±	195°			
DELTA	D1	LTE 700/850	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B5/B13 RF4439D-25A	111'-7"±	280°	(1) (P) 12-OVP	(1) (P) 12X24 LI HYBRID	325'±
	D2	LTE 1900/AWS	(P) NHH-45A-R2B	COMMSCOPE	(1) (E) B2/B66A RF4440D-13A	111'-7"±	280°			
	D3	5G	(P) MT6407-77A	SAMSUNG	-	111'-1"±	280°			
	D4	5G	(P) VZ-AT1K04	SAMSUNG	-	111'-11"±	280°			
	D5	CBRS	(P) XXDWMM-12.5-65-8T	SAMSUNG	-	109'-11"±	280°			

\*CONTRACTOR TO FIELD VERIFY HYBRID CABLE LENGTHS PRIOR TO CONSTRUCTION. LENGTH IS ESTIMATED FROM THE BASE EQUIPMENT OVP TO SECTOR OVP WITH 15% BUFFER.

(E) = Existing  
(P) = PROPOSED

**FINAL EQUIPMENT CONFIGURATION**

SCALE: N.T.S.

1

DRAWN BY: MR

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50150857

SITE LOCATION CODE

541249

SITE ADDRESS

55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

CONSTRUCTION DETAILS-V

SHEET NUMBER

C-11

1  
C-6 11TH FLOOR ELECTRICAL ROOM

NEMA 3R PANEL SCHEDULE 42,000 A.I.C.						
W/200A MAIN C/B						
CKT #	DESCRIPTION	KVA	AMP	AMP	KVA	DESCRIPTION
1	RECTIFIER #1	3.1	30	30	3.1	RECTIFIER #2
3						4
5	RECTIFIER #3	3.1	30	30	3.1	RECTIFIER #4
7						8
9	RECTIFIER #5	3.1	30	30	3.1	RECTIFIER #6
11						12
13	RECTIFIER #7	3.1	30	30	3.1	RECTIFIER #8
15						16
17	SPACE			15	.24	LIGHTING
19	SPACE					20
21	SPACE					22
23	SPACE					24
25	SPACE					26
27	SPACE					28
29	SPACE					30

TOTAL KVA: 25.04

\*VERIFY ALL BREAKER SIZES WITH THE CABINET MANUFACTURER AND VERIZON WIRELESS PRIOR TO CONSTRUCTION.

**PANEL SCHEDULE**  
SCALE: N.T.S.

1

**SINGLE PHASE 2 WIRE  
CIRCUIT & WIRE SCHEDULE**

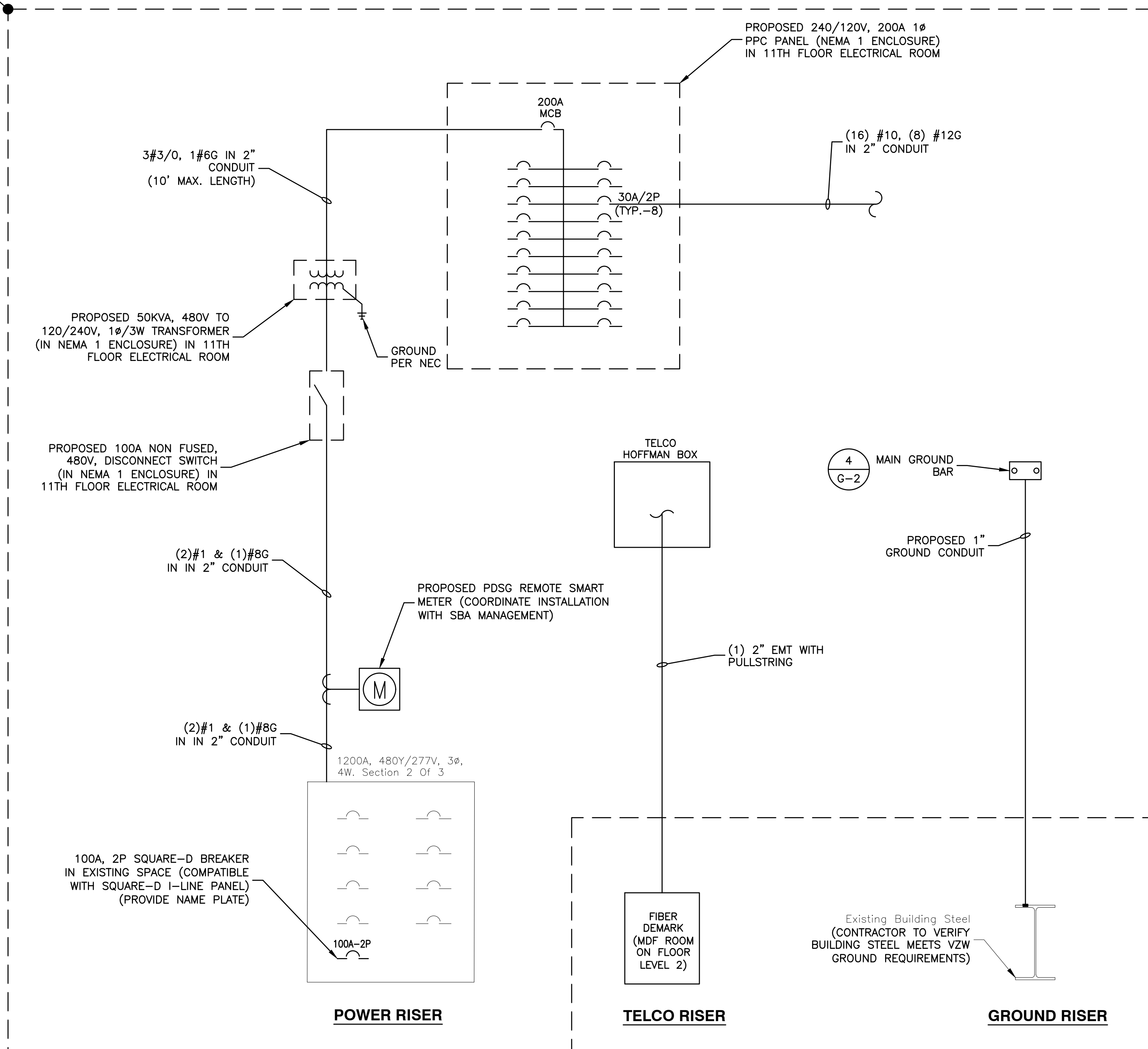
COPPER CONDUCTORS SIZE		
CONDUCTORS	SIZE CONDUIT	CIRCUIT OR OVERCURRENT RATING
2#12 & 1#12G.	3/4"	15A
2#12 & 1#12G.	3/4"	20A
2#10 & 1#10G.	3/4"	30A
2#8 & 1#10G.	3/4"	40A
2#6 & 1#10G.	3/4"	50A
2#6 & 1#10G.	3/4"	60A

**SINGLE PHASE 3 WIRE  
CIRCUIT & WIRE SCHEDULE**

COPPER CONDUCTORS SIZE		
CONDUCTORS	SIZE CONDUIT	CIRCUIT OR OVERCURRENT RATING
2#12, 1#12N & 1#12G	3/4"	15A
2#12, 1#12N & 1#12G	3/4"	20A
2#10, 1#10N & 1#10G	3/4"	30A
2#8, 1#8N & 1#10G	1"	40A
2#6, 1#6N & 1#10G	1"	50A
2#6, 1#6N & 1#10G	1"	60A

**WIRE SCHEDULE**  
SCALE: N.T.S.

2



- NOTES:
- SEE SHEET GN-1 FOR FULL ELECTRICAL NOTES.
  - COORDINATE ROUTING OF CONDUITS AND CHECK METER LOCATION WITH OWNER REPRESENTATIVES.
  - PROVIDE PULL BOXES AS REQUIRED BY CODE AND JOB CONDITIONS.
  - GROUND SHALL COMPLY WITH NEC ARTICLE 250.
  - USE EMT FOR INTERIOR CONDUIT; USE RGS FOR EXTERIOR CONDUIT; USE PVC FOR UNDERGROUND CONDUIT.
  - LABEL NEW CIRCUIT BREAKER AND CONDUIT AS 'VERIZON WIRELESS'.

**RISER DIAGRAMS**  
SCALE: N.T.S.

3

**verizon**  
WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

CONSTRUCTION DRAWINGS		
2	11/29/22	FOR SUBMITTAL
1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT

**Dewberry**  
Dewberry Engineers Inc.  
89 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
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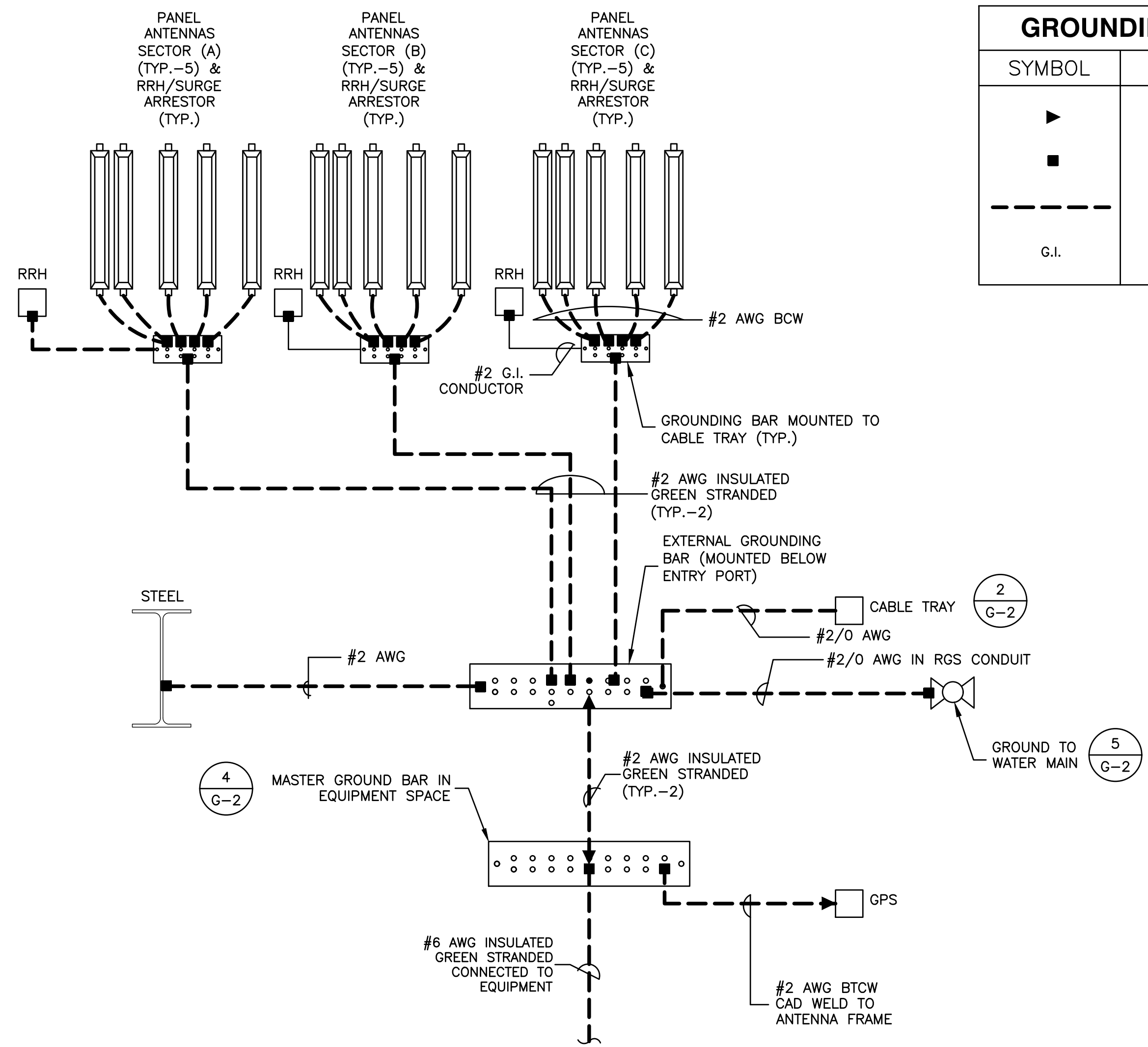


DRAWN BY:	MR
REVIEWED BY:	MFT
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50150857
SITE LOCATION CODE	

541249  
SITE ADDRESS  
55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE  
RISER DIAGRAMS  
SHEET NUMBER

E-1

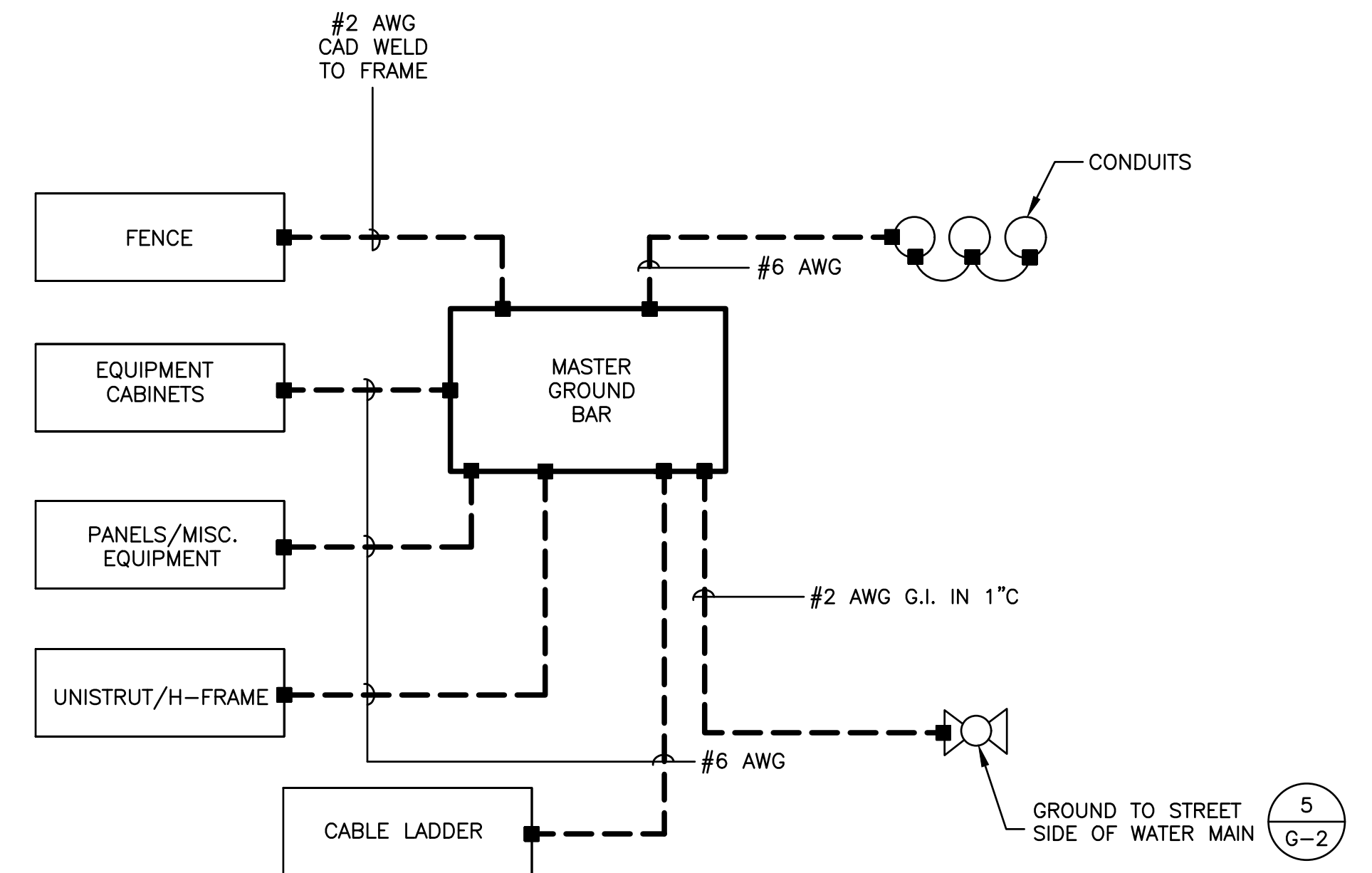


GROUNDING LEGEND	
SYMBOL	DESCRIPTION
▶	EXOTHERMIC WELD
■	MECHANICAL CONNECTION
---	GROUND CONDUCTOR
G.I.	GREEN INSULATED

WIRE SIZE	LUG #	BOLT SIZE
#2	53207	1/4" - 20 NC x 1/2" S.S. BOLT & NUT W/LOCK WASHERS
#6	53205	

\* USE WHERE EXOTHERMIC WELD IS NOT CALLED FOR.

**GROUNDING SCHEMATIC** 1  
SCALE: N.T.S.



- NOTES:
- BOND ANTENNA GROUNDING KIT CABLE TO GROUND BAR (GNP BAR).
  - ALL CELL EQUIPMENT (BCE, BATTERY FRAME, POWER CABINETS, MISC. EQUIPMENT FRAMES, ETC.) SHALL BE GROUNDED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
  - ALL EXPOSED METAL OBJECTS SHALL BE BONDED AND JUMPED TO MGB.

**GROUNDING DIAGRAM** 2  
SCALE: N.T.S.

**GROUNDING NOTES:**

- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUNDING CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR INDOOR USE.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. 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 NOT EXCEED 5 OHMS.
- GROUNDING CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS USING VERIZON PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.



VERIZON WIRELESS  
900 CHELMSFORD STREET  
TOWER 2 FLOOR 5  
LOWELL, MA 01851

**SOUTH END 6 MA**

**CONSTRUCTION DRAWINGS**

NO.	DATE	DESCRIPTION
2	11/29/22	FOR SUBMITTAL
1	10/14/22	FOR SUBMITTAL
0	09/28/22	FOR SUBMITTAL
A	09/13/22	FOR COMMENT



Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: MR

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50150857

SITE LOCATION CODE

541249

SITE ADDRESS

55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

GROUNDING DIAGRAMS

SHEET NUMBER

G-1



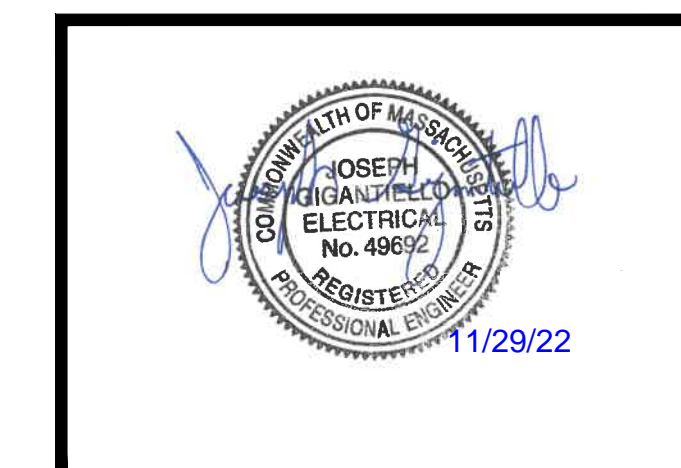
**SOUTH END 6 MA**

CONSTRUCTION DRAWINGS

NO.	DATE	DESCRIPTION
2	11/29/22	FOR SUBMITTAL
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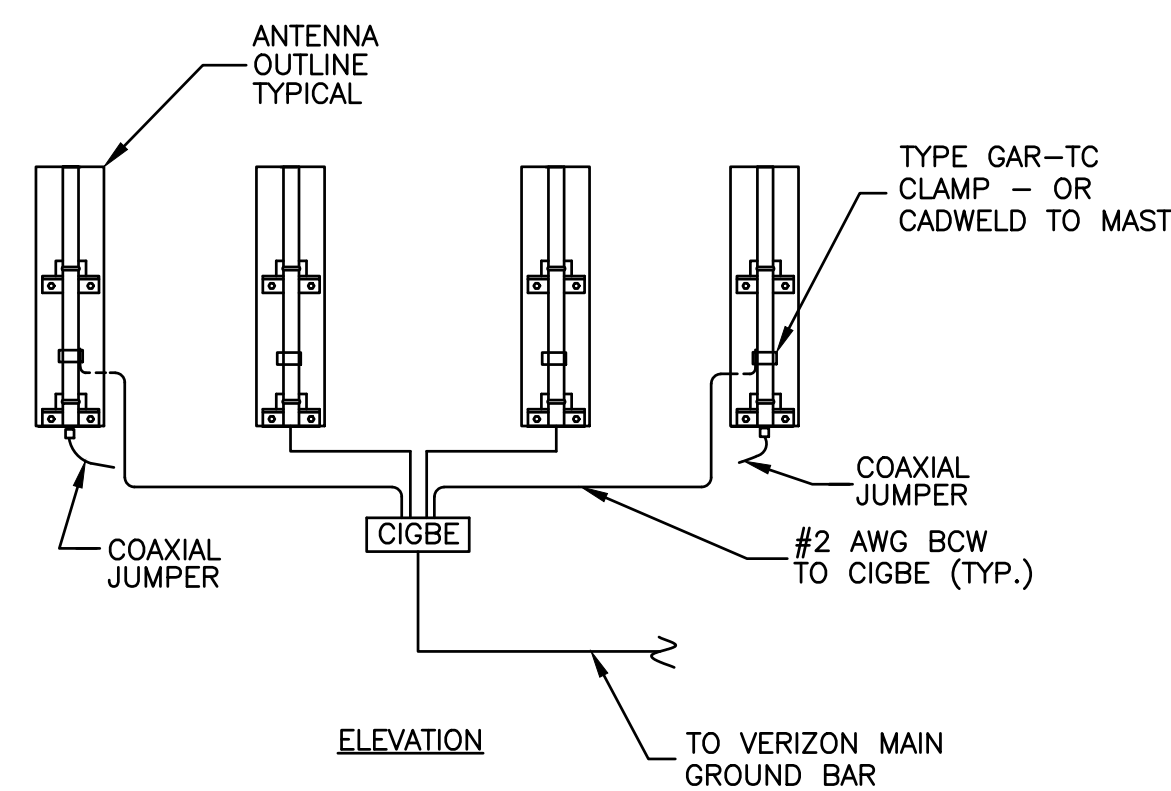
SITE ADDRESS

55 TRAVELER STREET  
BOSTON, MA 02118

SHEET TITLE

GROUNDING DETAILS

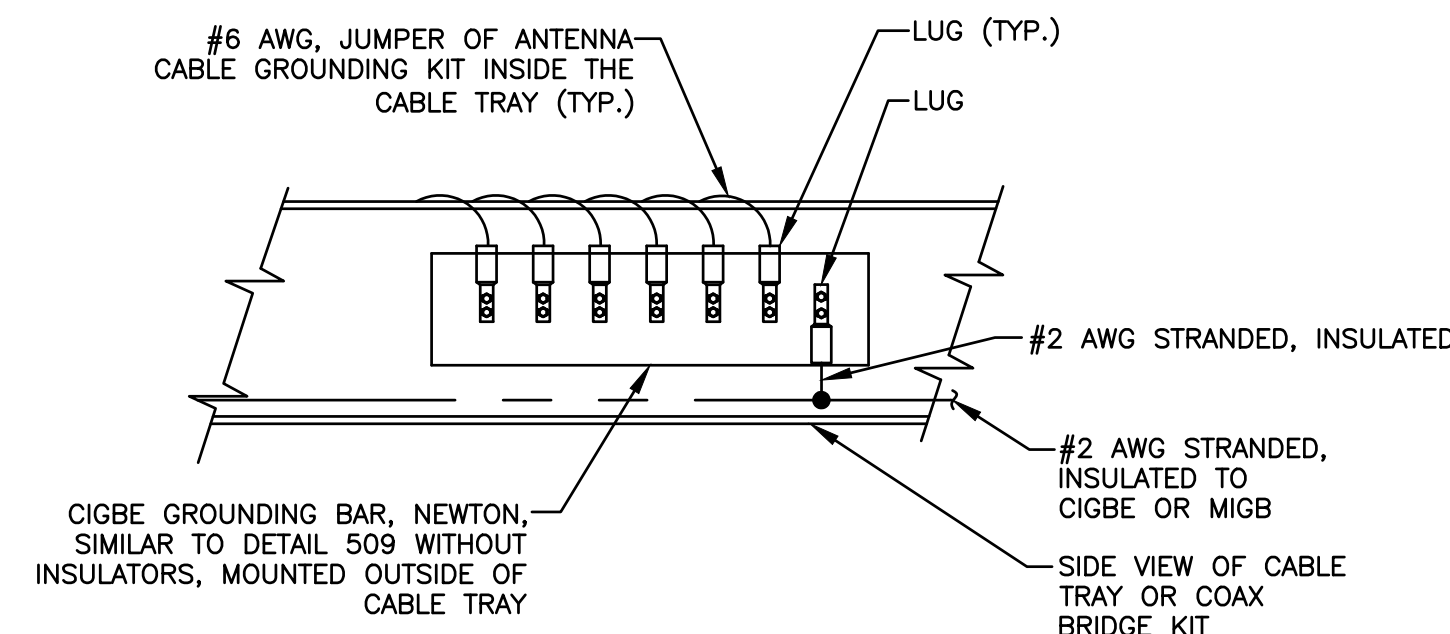
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**ANTENNA MOUNT GROUNDING DETAIL**

SCALE: N.T.S.

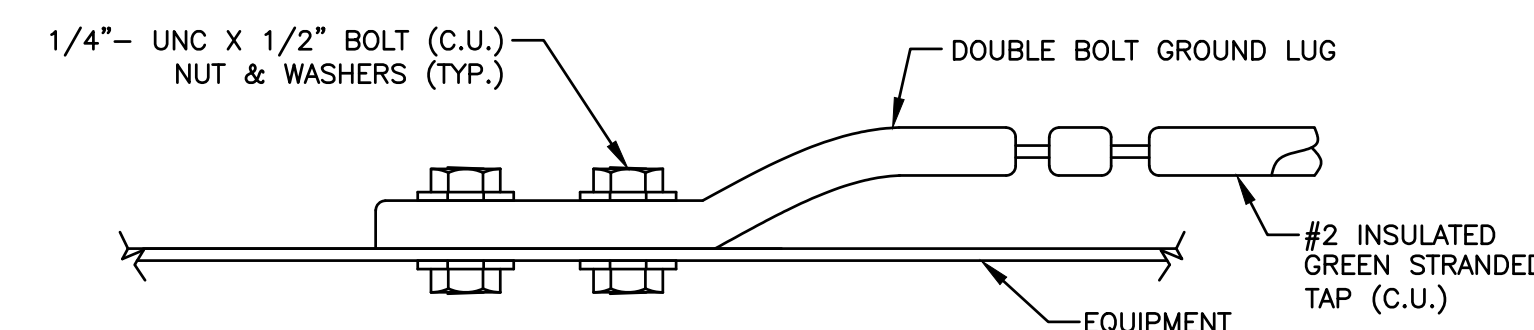
1



**GROUNDING BAR MOUNTED ON CABLE TRAY**

SCALE: N.T.S.

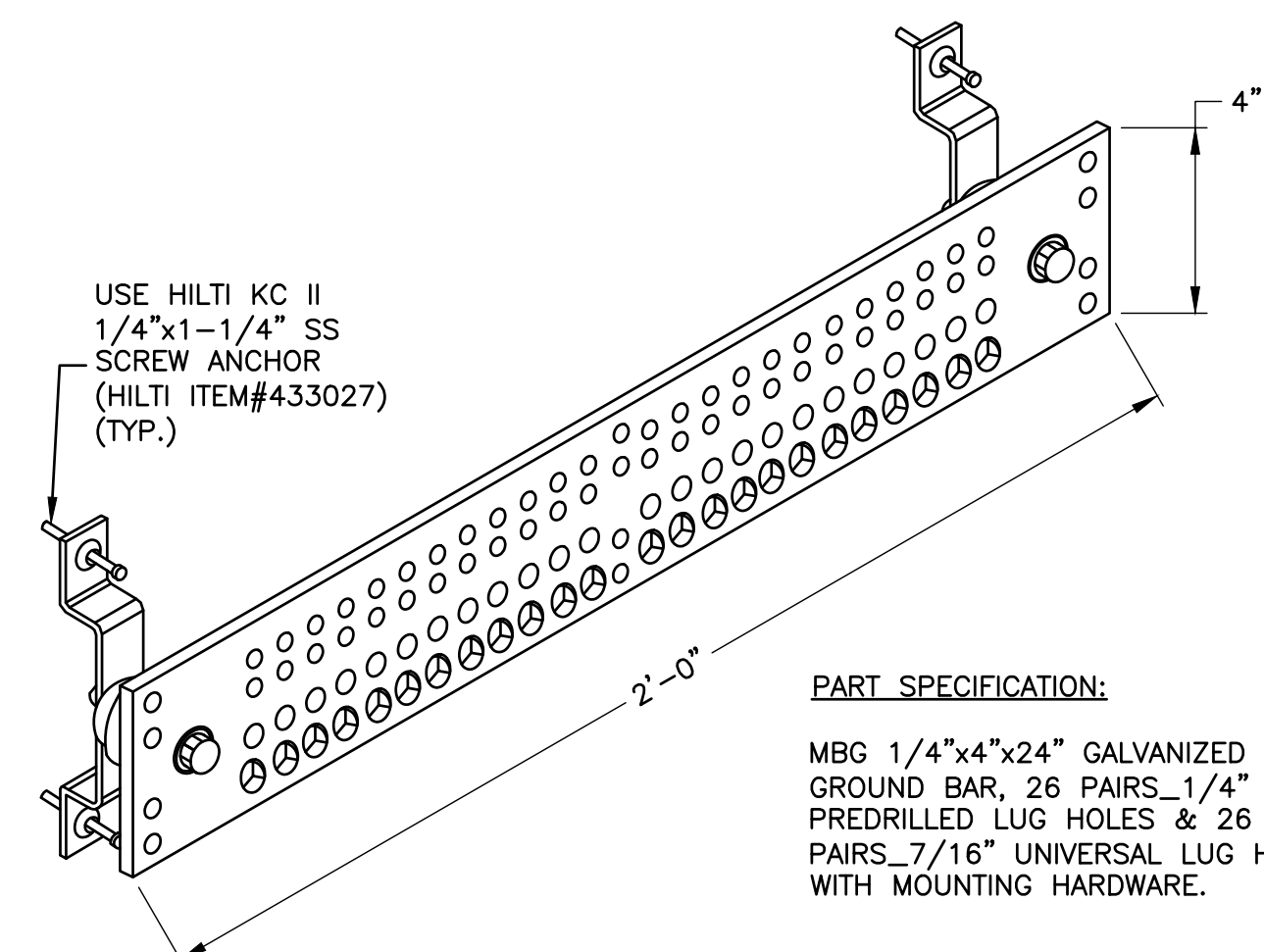
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**CONNECTION TO EQUIPMENT DETAIL**

SCALE: N.T.S.

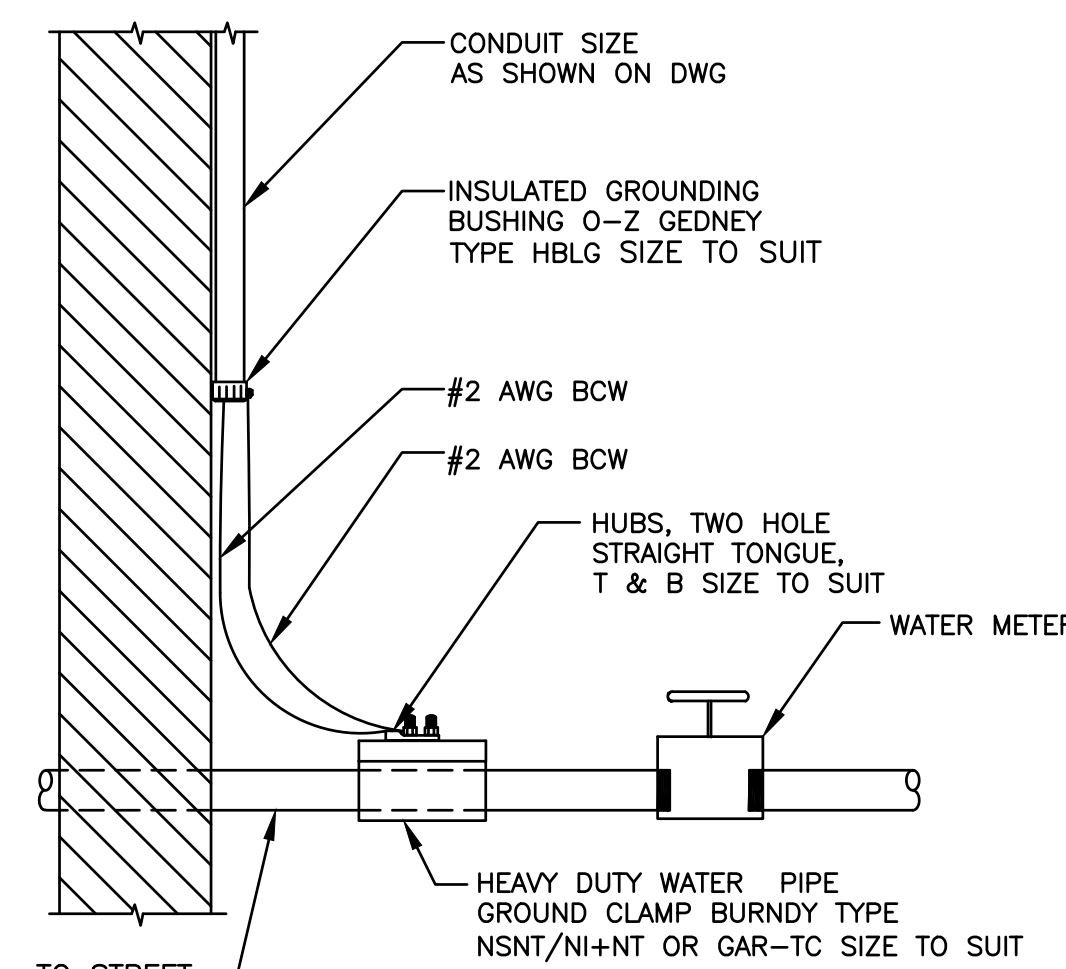
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**GROUND BAR DETAIL**

SCALE: N.T.S.

4



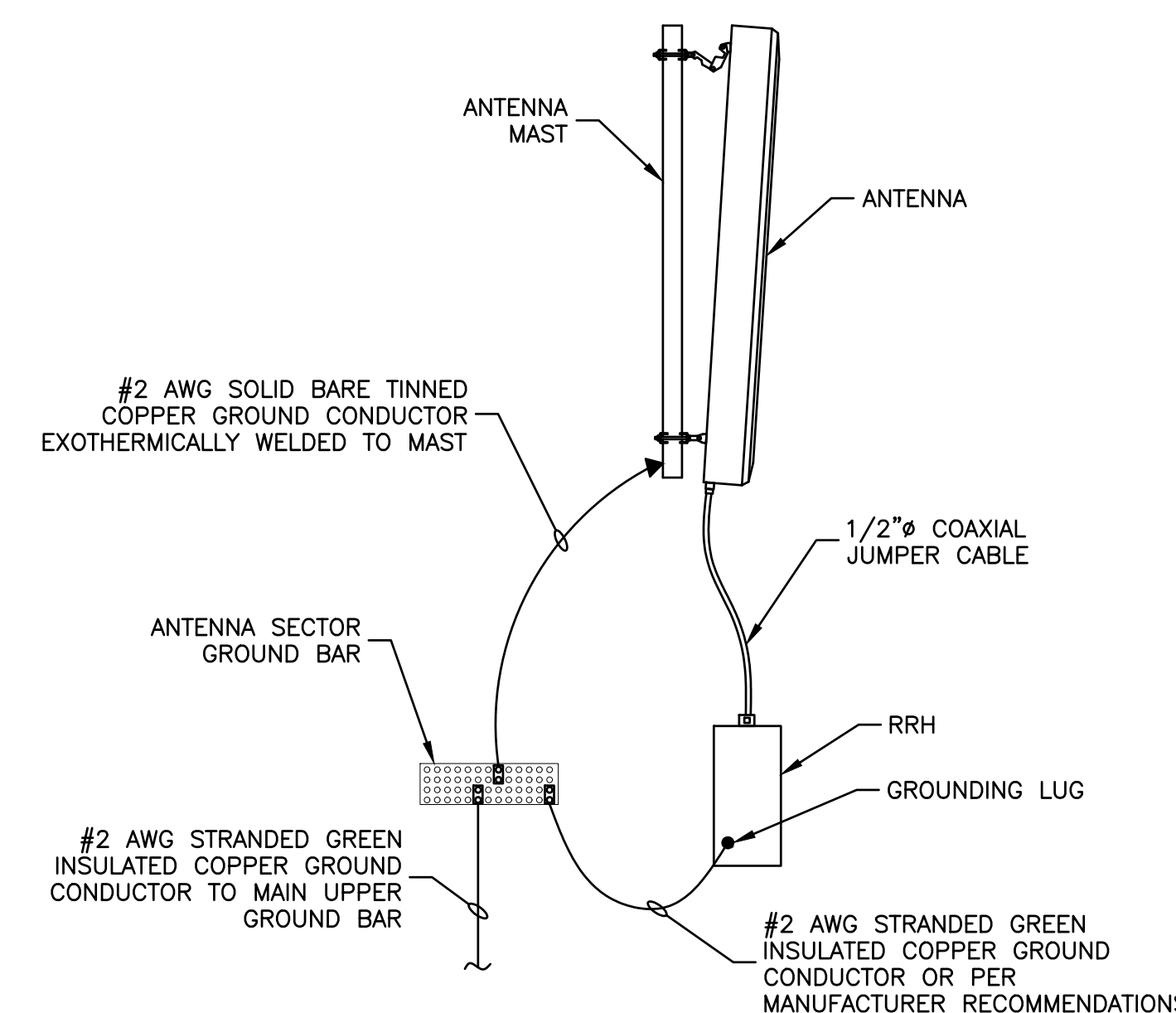
NOTE:

- BURNDY TYPE GROUND CLAMP SHOULD BE ATTACHED ON STREET SIDE OF WATER CUT-OFF. VALVE IS INSULATED BETWEEN WATER METER & STREET GROUNDING CLAMP SHOULD BE ATTACHED TO STREET SIDE.

**WATER METER GROUNDING**

SCALE: N.T.S.

5



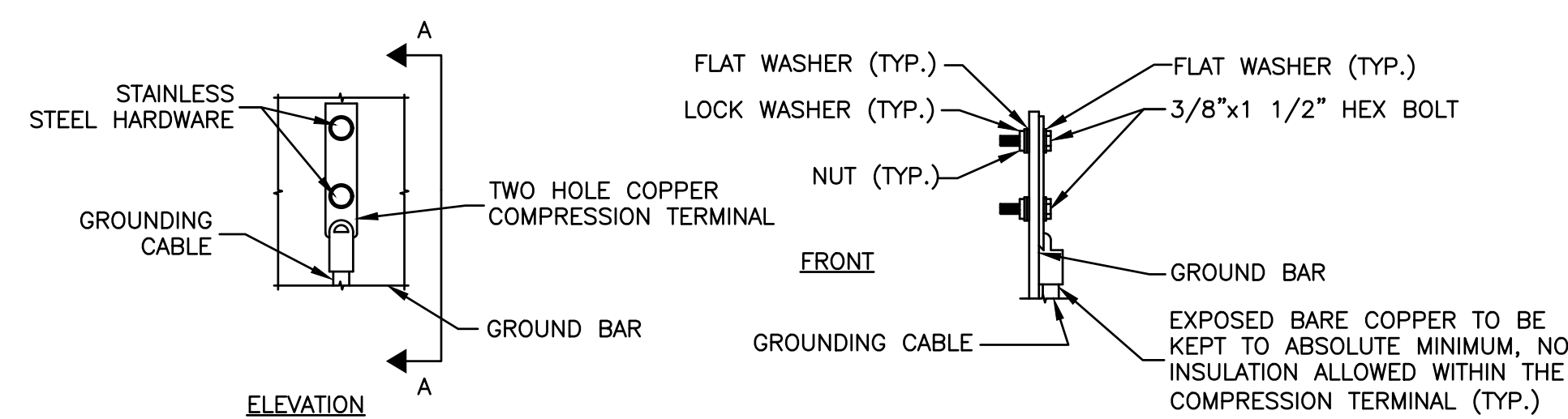
NOTES:

- VERIFY EXISTING GROUNDING SYSTEM IS INSTALLED PER VERIZON WIRELESS STANDARDS.
- BOND NEW EQUIPMENT INTO EXISTING GROUND SYSTEM IN ACCORDANCE WITH VERIZON WIRELESS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

**TYPICAL ANTENNA/RRH GROUNDING DETAIL**

SCALE: N.T.S.

6



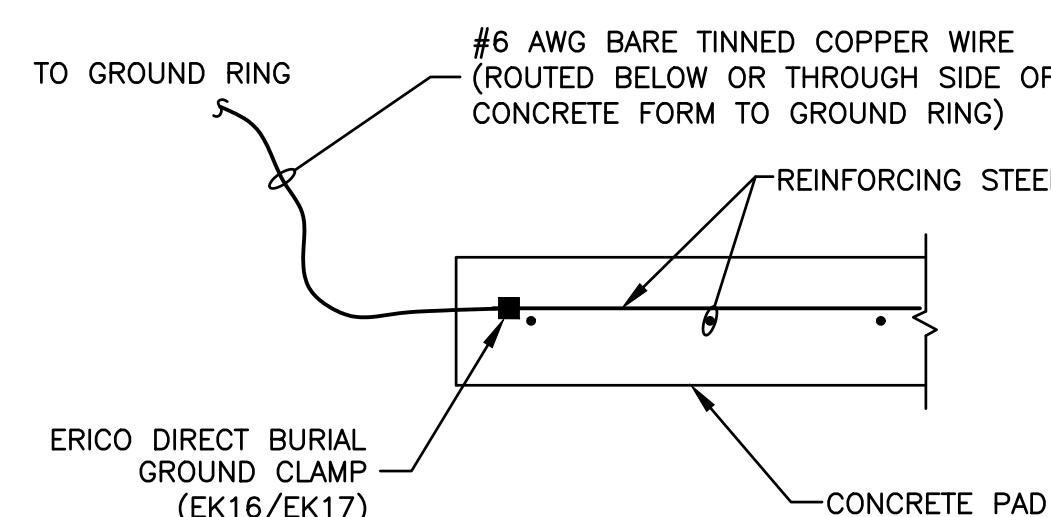
NOTES:

- DOUBLING UP OR STACKING OF CONNECTIONS IS NOT PERMITTED
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

**TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL**

SCALE: N.T.S.

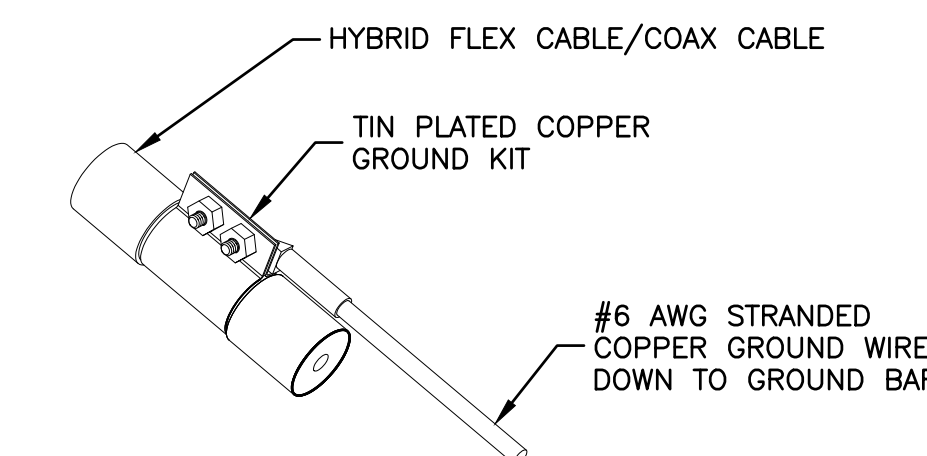
7



**REBAR GROUNDING DETAIL**

SCALE: N.T.S.

8



NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT LOCATION & QUANTITY PER CARRIER SPECIFICATIONS.
- WEATHER PROOFING SHALL BE PER CARRIER REQUIREMENTS.

**CABLE/HYBRID FLEX GROUNDING DETAIL**

SCALE: N.T.S.

9

**Prepared for:  
Verizon Wireless  
Site Name:  
South End 6 MA  
55 Traveler Street  
Boston, MA 02118**

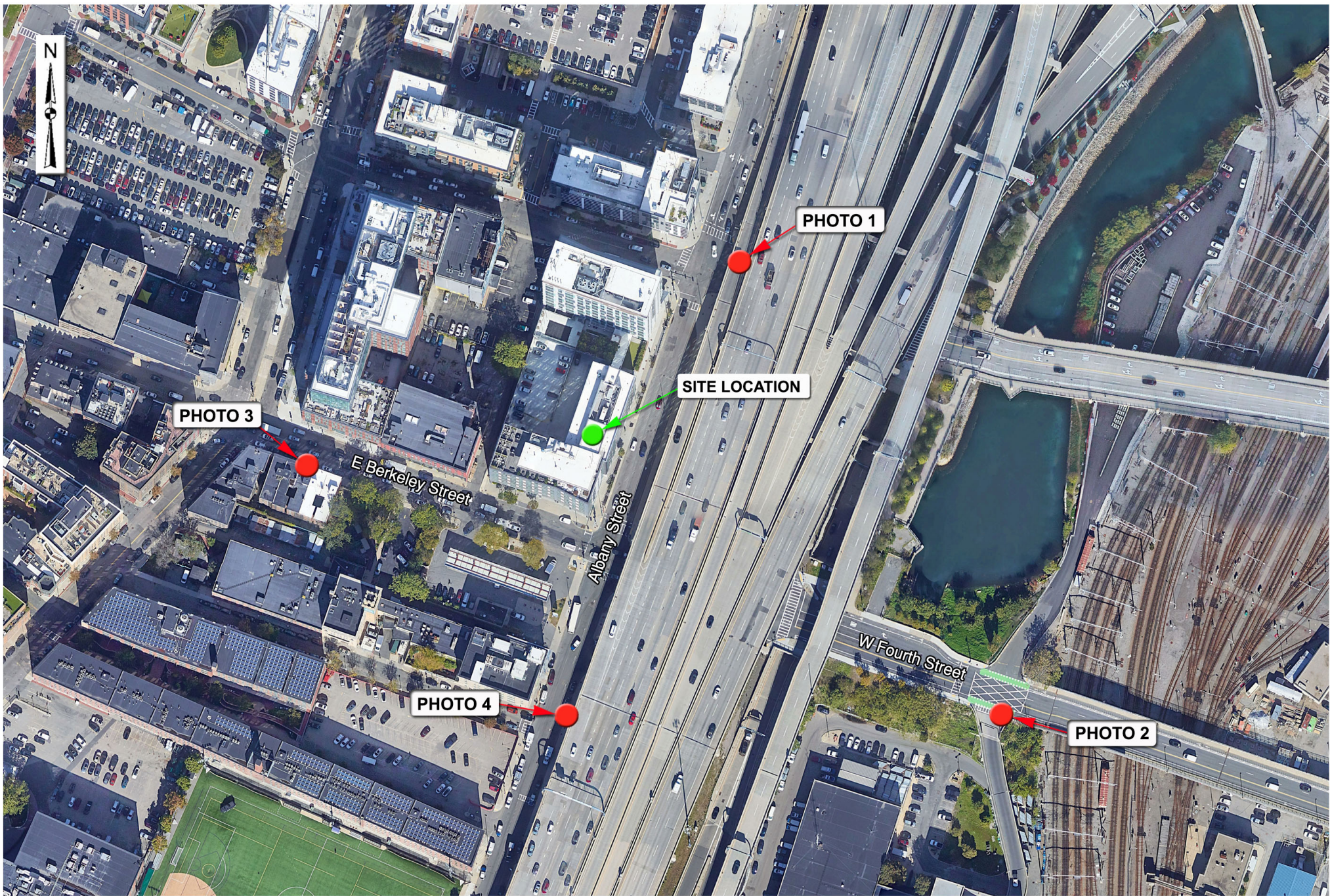


Simulations Based On Rev-2 Construction Drawings By Dewberry.  
Photos Taken On: 11/29/22



**South End 6 MA**  
55 Traveler Street  
Boston, MA 02118  
(Page 1 of 10)





Existing View



# Proposed View

Proposed Alpha Sector Antennas  
On Building Facade (Typ.-5)



# Existing View

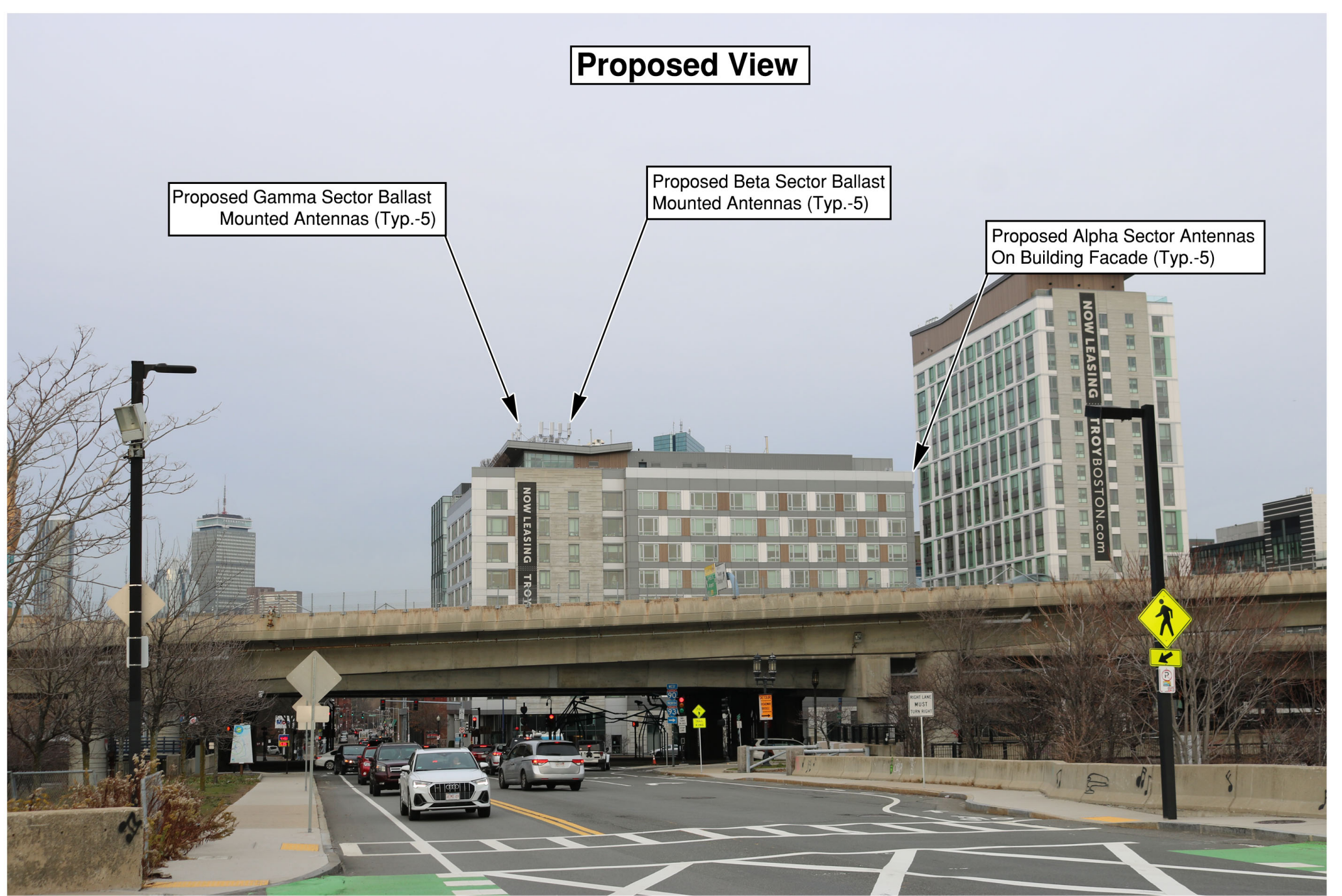


# Proposed View

Proposed Gamma Sector Ballast Mounted Antennas (Typ.-5)

Proposed Beta Sector Ballast Mounted Antennas (Typ.-5)

Proposed Alpha Sector Antennas On Building Facade (Typ.-5)



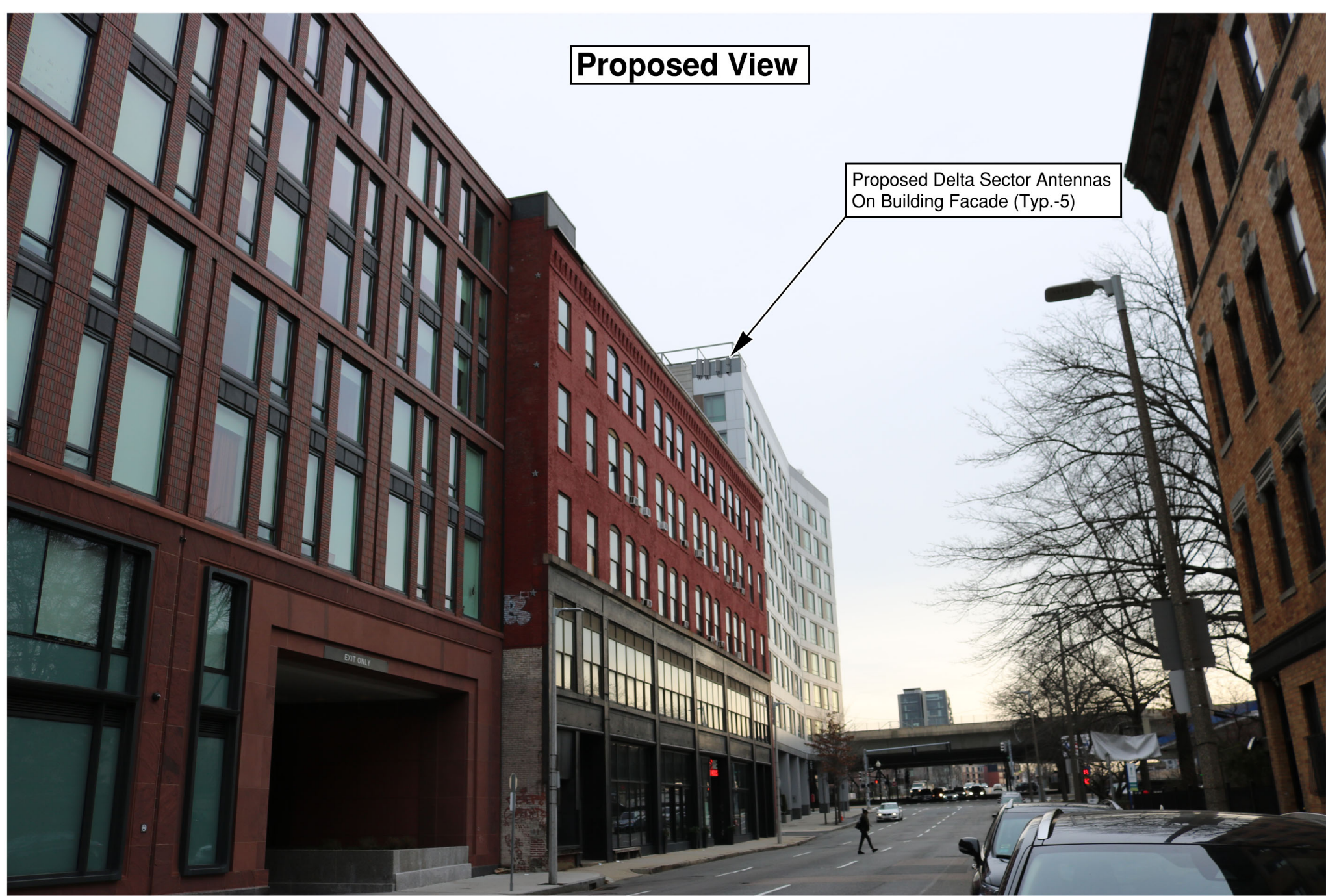
**Existing View**





**Proposed View**

Proposed Delta Sector Antennas  
On Building Facade (Typ.-5)



**Existing View**



# Proposed View

Proposed Gamma Sector Ballast Mounted Antennas (Typ.-5)

Proposed Beta Sector Ballast Mounted Antennas (Typ.-5)

