



**AT&T SITE ID:**  
**CCL05273**  
**VERTICAL BRIDGE SITE ID:**  
**US-CA-5415**  
**VERTICAL BRIDGE SITE NAME:**  
**MOUNT HAMILTON ROAD**  
**IWM: WSSFR0043570**  
**PACE ID: MRSFR095393**  
**FA: 15906563**  
**15815 MT HAMILTON ROAD**  
**SAN JOSE, CALIFORNIA 95140**  
**INSTALLATION OF NEW 89'-0" MONOPINE TOWER**




PROJECT INFORMATION:  
**CCL05273**  
**US-CAL-5415**  
**MOUNT HAMILTON ROAD**  
 15815 MT HAMILTON ROAD  
 SAN JOSE, CALIFORNIA 95140

CURRENT ISSUE DATE:  
**04/23/24**

ISSUED FOR:  
**ZONING**

REV.	DATE	DESCRIPTION	BY:
0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.

PLANS PREPARED BY:  
  
**MODUS, LLC**  
 240 STOCKTON STREET, 3RD FLR.  
 SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

TITLE	SIGNATURE	DATE
RF ENGINEER		
OPE PROJECT MANAGER		
LANDLORD		
FIELD ENGINEER		
DEVELOPMENT SUPERVISOR		
CONSTRUCTION PROJECT MANAGER		
FIELD OPS MANAGER		

SHEET TITLE:  
**TITLE SHEET**

SHEET NUMBER: **T1** REVISION: **0**

THE PROPOSED PROJECT INCLUDES:

**VERTICAL BRIDGE:**

- INSTALLATION OF A 40'-0" X 40'-0" (~1600 SQ. FT). VERTICAL BRIDGE TELECOMMUNICATIONS FACILITY
- INSTALLATION OF A VERTICAL BRIDGE 89'-0" MONOPINE
- INSTALLATION OF A VERTICAL BRIDGE 8' CHAIN LINK FENCE
- INSTALLATION OF (2) VERTICAL BRIDGE 6" WIDE CHAIN LINK GATES
- NEW 600A MULTI-METER BANK ON NEW H-FRAME

**AT&T:**

- INSTALLATION OF AT&T ANTENNA MOUNTING ASSEMBLIES AT A 80'-0" CENTERLINE
- INSTALLATION OF (12) AT&T PANEL ANTENNAS MOUNTED AT A 80'-0" CENTERLINE ((4) PER SECTOR)
- INSTALLATION OF (9) AT&T REMOTE RADIO HEADS (RRHS) ((3) PER SECTOR)
- INSTALLATION OF (3) NEW AT&T TOWER MOUNTED DC-9 SURGE SUPPRESSORS
- INSTALLATION OF (1) NEW AT&T 40" X 52.24" X 9" GROUND LEVEL DC50 SPD
- INSTALLATION OF (1) AT&T GPS UNIT MOUNTED ON PROPOSED OUTDOOR WALK-UP CABINET
- INSTALLATION OF (1) AT&T OUTDOOR WALK-UP CABINET (WUC)
- INSTALLATION OF A NEW AT&T 30KW GENERATOR WITH 211 GALLON DIESEL FUEL TANK ON A NEW 5'-0" X 9'-0" CONCRETE PAD
- INSTALLATION OF (1) AT&T ICE BRIDGE
- INSTALLATION OF A 200A DEDICATED METER PANEL MOUNTED TO VERTICAL BRIDGE 600A METER BANK

**PROJECT DESCRIPTION**



VICINITY MAP

**APPLICANT/LESSEE**  
 VERTICAL BRIDGE  
 750 PARK OF COMMERCE DRIVE, SUITE 200  
 BOCA RATON, FLORIDA 33487

CONTACT: TROY PETER  
 PHONE: (205) 913-4434

**PROPERTY INFORMATION**  
 PROPERTY OWNER: HOLMES BETTY A ET AL  
 BRINTNALL DANIEL L  
 PO BOX 611805  
 SAN JOSE, CALIFORNIA 95161

VERTICAL BRIDGE LEASE AREA: ~1724 SQ. FT.  
 AT&T LEASE AREA: ~481 SQ. FT.

OCCUPANCY TYPE: U  
 CONSTRUCTION TYPE: V-B

CURRENT ZONING: SPECIAL PLANNING AREA (SPA)

POWER COMPANY: PG&E  
 TELEPHONE COMPANY: AT&T  
 JURISDICTION: SANTA CLARA COUNTY

APN: 627-23-004  
 LONGITUDE: 37.358539° (PENDING 1A)  
 LATITUDE: -121.756126° (PENDING 1A)  
 ELEVATION: 1766.2299' (PENDING 1A)

HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

TOWER OWNER: VERTICAL BRIDGE  
 750 PARK OF COMMERCE DRIVE,  
 SUITE 200  
 BOCA RATON, FLORIDA 33487

**PROJECT SUMMARY**

RADIATION FROM THIS FACILITY WILL NOT INTERFERE WITH OPERATION OF OTHER COMMUNICATION DEVICES.

**FCC COMPLIANCE**

THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. LANDINGS AND EXITS SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.

**ADA COMPLIANCE**

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA GREEN BUILDING CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA FIRE CODE
- NSI/EIA-222-G LIFE SAFETY ODE
- LOCAL BUILDING CODE(S)
- CITY AND/OR COUNTY ORDINANCES

**CODE COMPLIANCE**

**SITE ACQUISITION/ PLANNING**  
 MODUS, LLC  
 240 STOCKTON STREET, 3RD FLOOR  
 SAN FRANCISCO, CALIFORNIA 94108  
 JOSEPH SHARP  
 PHONE: (916) 205-9305  
**CIVIL ENGINEER**

SPECTRUM SERVICES, LLC  
 4850 WEST OQUENDO ROAD  
 LAS VEGAS, NEVADA 89118  
 GARRETT R. HAWTHORNE  
 PHONE: (702) 367-7705  
 FAX: (702) 367-8733

**PROJECT TEAM**

SHEET	DESCRIPTION	REV.
T1	TITLE SHEET	0
T2	ABBREVIATION, LEGEND, GENERAL & CONSTRUCTION NOTES	0
T3	SITE SIGNAGE	0
A1	SITE PLAN	0
A2	SITE DETAIL	0
A2.1	SITE DETAIL WITH DIMENSIONS	0
A3	ANTENNA LAYOUT AND ANTENNA & EQUIPMENT SCHEDULE	0
A4	PROPOSED NORTHWEST AND NORTHEAST ELEVATIONS	0
A5	PROPOSED SOUTHEAST AND SOUTHWEST ELEVATIONS	0
D1	CONSTRUCTION DETAILS	0
D2	CONSTRUCTION DETAILS	0
D3	CONSTRUCTION DETAILS	0
D4	GENERATOR DETAILS	0
E1	ELECTRICAL NOTES	0
E2	UTILITY ROUTING, PANEL SCHEDULE, SINGLE LINE DIAGRAM AND NOTES	0
E3	ELECTRICAL DETAILS	0
G1	GROUNDING LAYOUT, NOTES AND DETAILS	0
G2	GROUNDING DETAILS	0

ISSUED FOR:

<b>SHEET INDEX</b>	<b>PERMIT</b>
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TITLE	SIGNATURE	DATE
RF ENGINEER		
OPE PROJECT MANAGER		
LANDLORD		
FIELD ENGINEER		
DEVELOPMENT SUPERVISOR		
CONSTRUCTION PROJECT MANAGER		
FIELD OPS MANAGER		

**APPROVAL LIST**

1P, 2P, & 3P A/C	SINGLE POLE, TWO POLE, & THREE POLE AIR CONDITIONING	KW. LB(S)	KILOWATTS POUND(S)
ADJ.	ADJUSTABLE	MAX.	MAXIMUM
AFF.	ABOVE FINISH FLOOR	MECH	MECHANICAL
APPROX.	APPROXIMATELY	MET, MTL	METAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFR.	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MGR	MANAGER
A OR AMP.	AMPERE	MIN.	MINIMUM
BLDG.	BUILDING	MISC	MISCELLANEOUS
BLK.	BLOCK	MGB	MAIN GROUND BUS
BMR	BASE MOBILE RADIO	MTD.	MOUNTED
B/S	BUILDING STANDARD	N.E.C.	NATIONAL ELECTRICAL CODE
BTCW	BARE TIN COPPER WIRE	NEUT.	NEUTRAL
CU.	COPPER	NA	NOT APPLICABLE
C.O.	CONDUIT ONLY	NIC	NOT IN CONTRACT
C.	CONDUIT SIZED AS NOTED	NTS	NOT TO SCALE
C.B.	CIRCUIT BREAKER	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
CKT.	CIRCUIT	OD	OUTSIDE DIAMETER
CLG.	CEILING	OPG.	OPENING
CLR.	CLEAR	OPP	OPPOSITE
CONC.	CONCRETE	OHP	OVERHEAD POWER
CONST.	CONSTRUCTION	OHF	OVERHEAD FIBER
CONT.	CONTINUOUS	OHP/OHF	OVERHEAD POWER/OVERHEAD FIBER
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	PVC.	SCHEDULE 40 PLASTIC CONDUIT.
DBL	DOUBLE	PLYWD.	PLYWOOD
DIA. Ø	DIAMETER	PR	PAIR
DIAG.	DIAGONAL	PH	PHASE
DIM	DIMENSION	PROJ.	PROJECT
DN	DOWN	PROP	PROPERTY
DTL, DETL	DETAIL	PT	PRESSURE TREATED
DWG.	DRAWING	RECPT.	RECEPTACLE
DEF	DUAL ELEMENT FUSES	REQ'D	REQUIRED
EA.	EACH	RM	ROOM
EL, ELEV	ELEVATION	R.O.	ROUGH OPENING
ELECT	ELECTRICAL	SW.	SWITCH
EQ.	EQUAL	SHT	SHEET
EQUIP.	EQUIPMENT	SIM	SIMILAR
E.W.	EACH WAY	SPEC.	SPECIFICATION
EX	EXISTING	SQ.	SQUARE
E.S.	EXISTING GRADE	STL	STEEL
EXT	EXTERIOR	STRUCT.	STRUCTURAL
E.C.	ELECTRICAL CONTRACTOR	SUSP.	SUSPENDED
EGB	EQUIPMENT GROUND BUS	S.V.	SHEET VINYL
EMT.	ELECTRICAL METALLIC TUBING	S.S.	STAINLESS STEEL
FIN.	FINISH	STD.	STANDARD
F.G.	FINISH GRADE	STRUC.	STRUCTURAL
FLOUR.	FLUORESCENT	TEMP.	TEMPORARY
FLR	FLOOR	THK.	THICK(NESS)
FT.	FOOT	THRU	THROUGH
GRC.	GALVANIZED RIGID CONDUIT	T.N.	TOE NAIL
G. OR GRD.	GROUND	TNND	TINNED
GA.	GAUGE	T.O.A.	TOP OF ANTENNA
GALV.	GALVANIZE(D)	T.O.C.	TOP OF CURB
GC	GENERAL CONTRACTOR	T.O.F.	TOP OF FRONDS
GPS	GLOBAL POSITION SYSTEM	T.O.M.	TOP OF MASONRY
GWB	GYPSTUM WALL BOARD	T.O.S.	TOP OF SLAB
GYP. BD.	GYPSTUM BOARD	TYP.	TYPICAL
HARDWD	HARDWOOD	U.O.N.	UNLESS OTHERWISE NOTED
HORIZ.	HORIZONTAL	XFMR	TRANSFORMER
HR	HOUR	(E)	EXISTING
HT.	HEIGHT	(P)	PROPOSED
HVAC	HEATING, VENTING AND AIR CONDITIONING	CL	CENTERLINE
I.B.C.	INTERNATIONAL BUILDING CODE	R	PROPERTY LINE
I.D.	INSIDE DIA.	&	AND
IN.	INCH	@	AT
INFO	INFORMATION	#	NUMBER
INSUL.	INSULATION	∠	ANGLE
INT.	INTERIOR	W.	WATTS

**ABBREVIATIONS**

	NEW ANTENNA		GROUT OR PLASTER		ELECTRICAL CONDUIT
	EXISTING ANTENNA		(E) BRICK		UNDERGROUND COAXIAL CABLE
	GROUND ROD		(E) MASONRY		OVERHEAD SERVICE CONDUCTORS
	GROUND BUSS BAR		CONCRETE		CHAIN LINK FENCING
	MECHANICAL GRND. CONN.		EARTH		CENTERLINE
	CADWELD		GRAVEL		PROPERTY LINE
	GROUND ACCESS WELL		PLYWOOD		MATCH LINE
	ELECTRIC BOX		SAND		WORK POINT
	FIBER BOX		WOOD CONT.		GROUND CONDUCTOR
	LIGHT POLE		WOOD BLOCKING		FIBER CONDUIT
	FND. MONUMENT		STEEL		LEASE LINE
	SPOT ELEVATION		DETAIL REFERENCE		
	SET POINT		ELEVATION REFERENCE		
	REVISION		SECTION REFERENCE		
	GRID REFERENCE				

**LEGEND**

- THE FACILITY IS AN UNOCCUPIED SPECIALIZED MOBILE RADIO FACILITY.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
- THE CONTRACTOR SHALL RECEIVE IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES, OR REGULATION TAKE PRECEDENCE.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT MANAGER AND WITH LANDLORD'S AUTHORIZED REPRESENTATIVE.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 16A OF THE CALIFORNIA BUILDING CODE REGARDING EARTHQUAKE PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
- KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- CONTRACTOR TO PROVIDE A COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
- CONTRACTOR IS TO SPRAY WITH EPA APPROVED WEED CONTROL PRIOR TO PLACING 4" AGGREGATE BASE, GEOTECH FABRIC AND CRUSHED ROCK. TYPICAL INSIDE ENTIRE SITE.

**PROJECT GENERAL NOTES**

- ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM 1988.
- SURVEY INFORMATION SHOWN IS OBTAINED FROM A SURVEY PREPARED BY --- DATED: MM/DD/YYYY
- THE ENGINEER SPECTRUM SERVICES, INC. AND REPRESENTATIVES OF THE OWNER, MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT (702) 367-7705.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION. NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY.
- NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY.
- ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
- ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
- THE GRADES WITHIN THE FENCED IN AREA ARE TO BE ACHIEVED BY COMPACTING CLEAN FILL TO A DENSITY OF 90% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY AND REPAVING WITH ASPHALT CONCRETE TO MATCH EXISTING.
- CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
- DRIVEWAY CONSTRUCTION, GRADING AND DRAINAGE WORK SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR THE ROAD AND BRIDGE CONSTRUCTION", LATEST EDITIONS, AND ALL APPLICABLE PROVISIONS OR LOCAL COUNTY ORDINANCES.
- ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL ELECTRIC COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.
- SPECIAL INSPECTION: SPECIAL INSPECTIONS ARE REQUIRED FOR HIGH STRENGTH BOLTING BY THIRD PARTY INSPECTOR.
- CONCRETE: IF THE CONCRETE MIX ACHIEVES ITS DESIGN STRENGTH PRIOR TO 28 DAY BREAK TEST, IT IS ACCEPTABLE FOR FINAL REPORT.
- COMPRESSIVE STRENGTH TEST SPECIMENS WITH DIMENSIONS OF 4" X 8" MAY BE USED.

**CONSTRUCTION NOTES**



PROJECT INFORMATION:  
**CCL05273**  
**US-CAL-5415**  
**MOUNT HAMILTON ROAD**  
 15815 MT HAMILTON ROAD  
 SAN JOSE, CALIFORNIA 95140

CURRENT ISSUE DATE:  
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ISSUED FOR:  
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REV.	DATE	DESCRIPTION	BY
0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.

PLANS PREPARED BY:  
  
**MODUS, LLC**  
 240 STOCKTON STREET, 3RD FLR.  
 SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

SHEET TITLE:  
**ABBREVIATION, LEGEND, GENERAL AND CONSTRUCTION NOTES**

SHEET NUMBER: **T2** REVISION: **0**



This Site Operated by:  
**AT&T MOBILITY**  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583  
 IN CASE OF FIRE AND THE NEED FOR SHUTDOWN  
 TO ACTIVATE ANTENNAS CALL THE  
 FOLLOWING NUMBER:  
 For 24 Hour Emergency Contact and Access Please Call:  
 (800) 638-2822

Reference Site#: CCL05273  
 Site Address: 15815 MT HAMILTON ROAD,  
 SAN JOSE, CALIFORNIA 95140

FENCE COMPOUND SIGNAGE

SCALE: NONE 11

**FOR FUEL & OTHER ENVIRONMENTAL EMERGENCIES CALL EH&S**  
 1-800-566-9347  
 1-800-KNOW-EHS

YELLOW EH&S SIGN

SCALE: NONE 7

**WARNING**  
 CANCER AND REPRODUCTIVE HARM  
 WWW.P65WARNINGS.CA.GOV

**AVERTISSEMENT**  
 CANCER ET EFFET NOCIF SUR LA REPRODUCTION  
 WWW.P65WARNINGS.CA.GOV

**AVERTISSEMENT**  
 PRODUCE CANCER Y DAÑOS REPRODUCTIVOS  
 WWW.P65WARNINGS.CA.GOV

PROP 65

SCALE: NONE 5

**SIGNAGE AND STRIPING INFORMATION**

- THE FOLLOWING INFORMATION IS A GUIDELINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONJECT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
- THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mW/cm<sup>2</sup> AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mW/cm<sup>2</sup>.
- IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF THE SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES & STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINES FOR PLACEMENT OF SUCH BARRICADES AND STRIPING. ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
- PHOTOS OF ALL STRIPING, BARRICADES AND SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE WITH THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE WITH ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADES. UPON CONSTRUCTION COMPLETION.



750 PARK OF COMMERCE DRIVE  
 BOCA RATON, FLORIDA 33487




5001 EXECUTIVE PARKWAY  
 SAN RAMON, CALIFORNIA 94583

PROJECT INFORMATION:  
 CCL05273  
 US-CAL-5415  
 MOUNT HAMILTON ROAD  
 15815 MT HAMILTON ROAD  
 SAN JOSE, CALIFORNIA 95140

CURRENT ISSUE DATE:  
 04/23/24

ISSUED FOR:  
 ZONING

REV.	DATE	DESCRIPTION	BY
0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.

PLANS PREPARED BY:  
  
 MODUS, LLC  
 240 STOCKTON STREET, 3RD FLR.  
 SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

SHEET TITLE:  
 SITE SIGNAGE

SHEET NUMBER: **T3** REVISION: **0**

**DANGER**  
 NO TRESPASSING

FENCED COMPOUND SIGNAGE

SCALE: NONE 14

**INFORMATION**  
 Federal Communications Commission Tower  
 Registration Number  
 1 2 3 4 5 6 7  
 Posted in accordance with Federal Communications  
 Commission rules and antenna tower registration  
 47CFR 17.4 (g).

FCC ASR SIGNAGE

SCALE: NONE 10

**DIESEL FUEL**  
 COMBUSTIBLE  
 NO SMOKING  
 NO OPEN FLAMES  
 FUEL TANK CAPACITY 190 GALS

FUEL TYPE SIGN

SCALE: NONE 6

**20**

NFPA 704 HAZARD DIAMOND SIGN

SCALE: NONE 4

GENERAL NOTES

SCALE: NONE 2

**NOTICE**  
 AUTHORIZED PERSONNEL ONLY

DOOR / EQUIPMENT SIGN

SCALE: NONE 13

Property of AT&T  
**Authorized Personnel Only**  
 No Trespassing  
 Violators will be prosecuted  
 In case of emergency, or prior to performing maintenance on this site, call (800) 638-2822 and reference cell site number CCL05273

GATE SIGNAGE

SCALE: NONE 9

- NOTE:
- CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE W/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.
  - CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE.

**CAUTION**

**On this tower:**  
 Beyond This Point you are entering an area where radio frequency (RF) fields may exceed the FCC General Population Exposure Limits.  
 Contact AT&T at 800-638-2822 and follow their instructions prior to performing any maintenance or repairs above this point.  
 Personal climbing this tower should be trained for working in RF environment and used a personal RF monitoring if working near active antennas.

CAUTION AND WARNING SIGN

SCALE: NONE 3

**CAUTION**

AT&T operates antennas at this site.  
 Beyond This Point you are entering an area where radio frequency (RF) fields may exceed the FCC General Population Exposure Limits.  
 Follow safety guidelines for working in an RF environment.  
 Contact AT&T at 800-638-2822 and follow their instructions prior to performing any maintenance or repairs above this point.

NOTICE SIGN

SCALE: NONE 1

**032**  
 ACID

NFPA HAZARD SIGN

SCALE: NONE 12

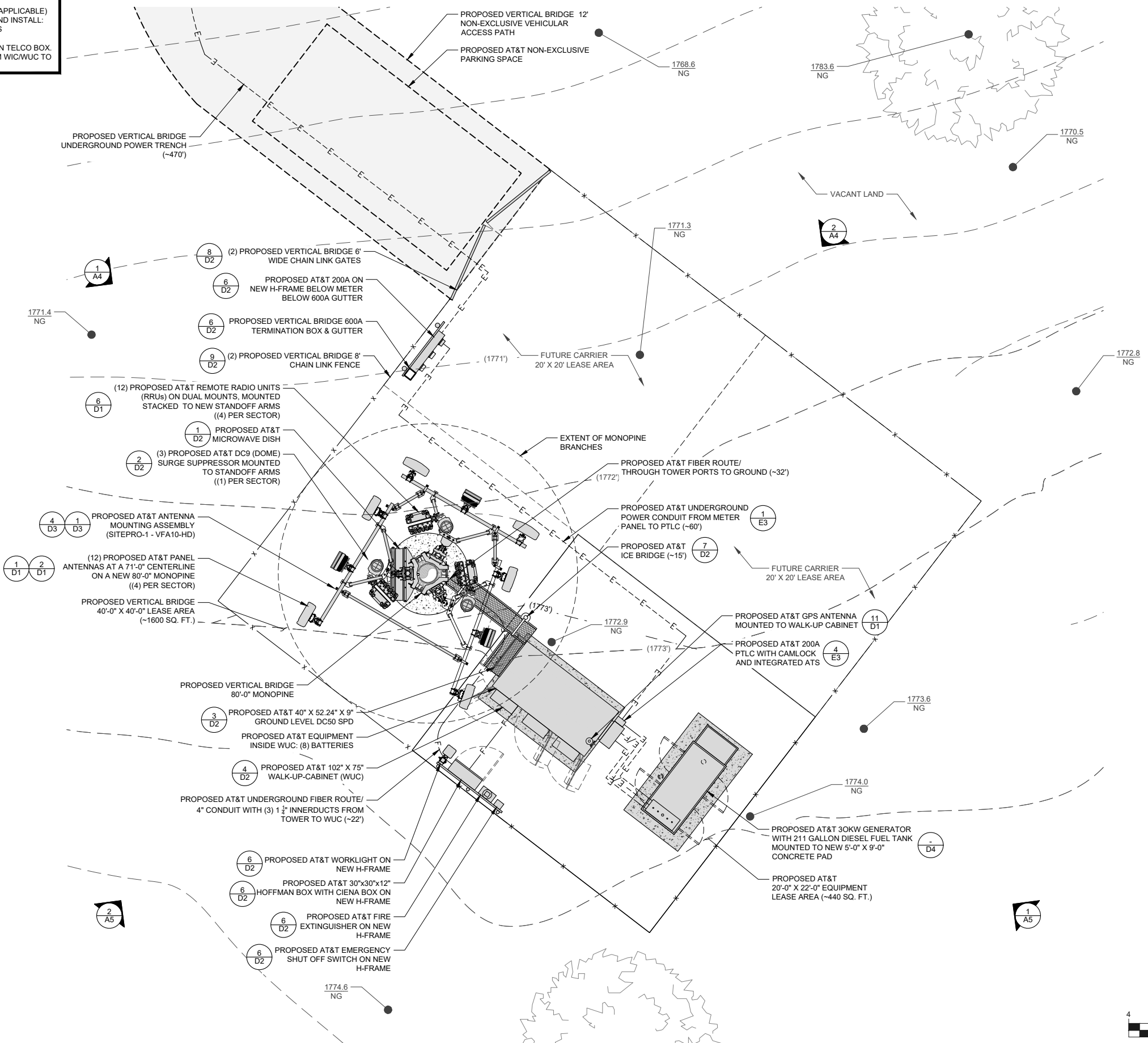
Property of AT&T  
**Authorized Personnel Only**  
 In case of emergency, or prior to performing maintenance on this site, call (800) 638-2822 and reference cell site number CCL05273

CABINET DOORS SIGNAGE

SCALE: NONE 8



NOTE:  
 • FAST ROOM READY (IF APPLICABLE)  
 • ABM GC TO FURNISH AND INSTALL:  
 (2) -48V POWER LEADS  
 (1) #6 GROUND, AND  
 (1) GMT FUSE PANEL IN TELCO BOX.  
 (1) 2-PAIR FIBER FROM WIC/WUC TO TELCO BOX.



**LEGEND**

—	LEASE AREA
—	CENTERLINE
- - - -	EASEMENT
- - - -	RIGHT-OF-WAY
- - - -	SECTION LINE
- - - -	PROPERTY LINE
— OHP —	OVERHEAD POWER
x — x	EXISTING CHAIN LINK FENCE
x — x	PROPOSED CHAIN LINK FENCE
□	PROPOSED WROUGHT IRON FENCE
- - - - XXXX - - - -	EXISTING 1' CONTOUR
- - - - XXXX - - - -	EXISTING 5' CONTOUR
▬▬▬▬▬▬▬▬	EXISTING BLOCK WALL
▬▬▬▬▬▬▬▬	PROPOSED BLOCK WALL
⊕	FIRE HYDRANT
□	PARKING LOT AREA LIGHT
O.R.	OFFICIAL RECORD
⊕	POWER POLE

**verticalbridge**  
 750 PARK OF COMMERCE DRIVE  
 BOCA RATON, FLORIDA 33487

**at&t**  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CALIFORNIA 94583

PROJECT INFORMATION:  
**CCL05273**  
**US-CAL-5415**  
**MOUNT HAMILTON ROAD**  
 15815 MT HAMILTON ROAD  
 SAN JOSE, CALIFORNIA 95140

CURRENT ISSUE DATE:  
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**ZONING**

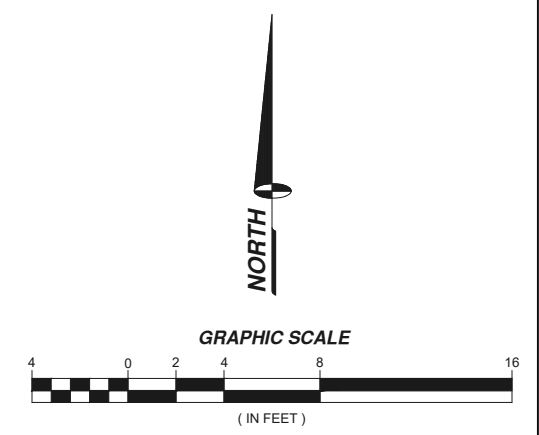
REV.	DATE	DESCRIPTION	BY
0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.

PLANS PREPARED BY:  
  
**MODUS, LLC**  
 240 STOCKTON STREET, 3RD FLR.  
 SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:  
 SHEET TITLE:  
**SITE DETAIL**

SHEET NUMBER:  
**A2**

REVISION:  
**0**





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SAN JOSE, CALIFORNIA 95140

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PLANS PREPARED BY:



MODUS, LLC  
240 STOCKTON STREET, 3RD FLR.  
SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

SHEET TITLE:

ANTENNA LAYOUT AND  
ANTENNA & EQUIPMENT  
SCHEDULE

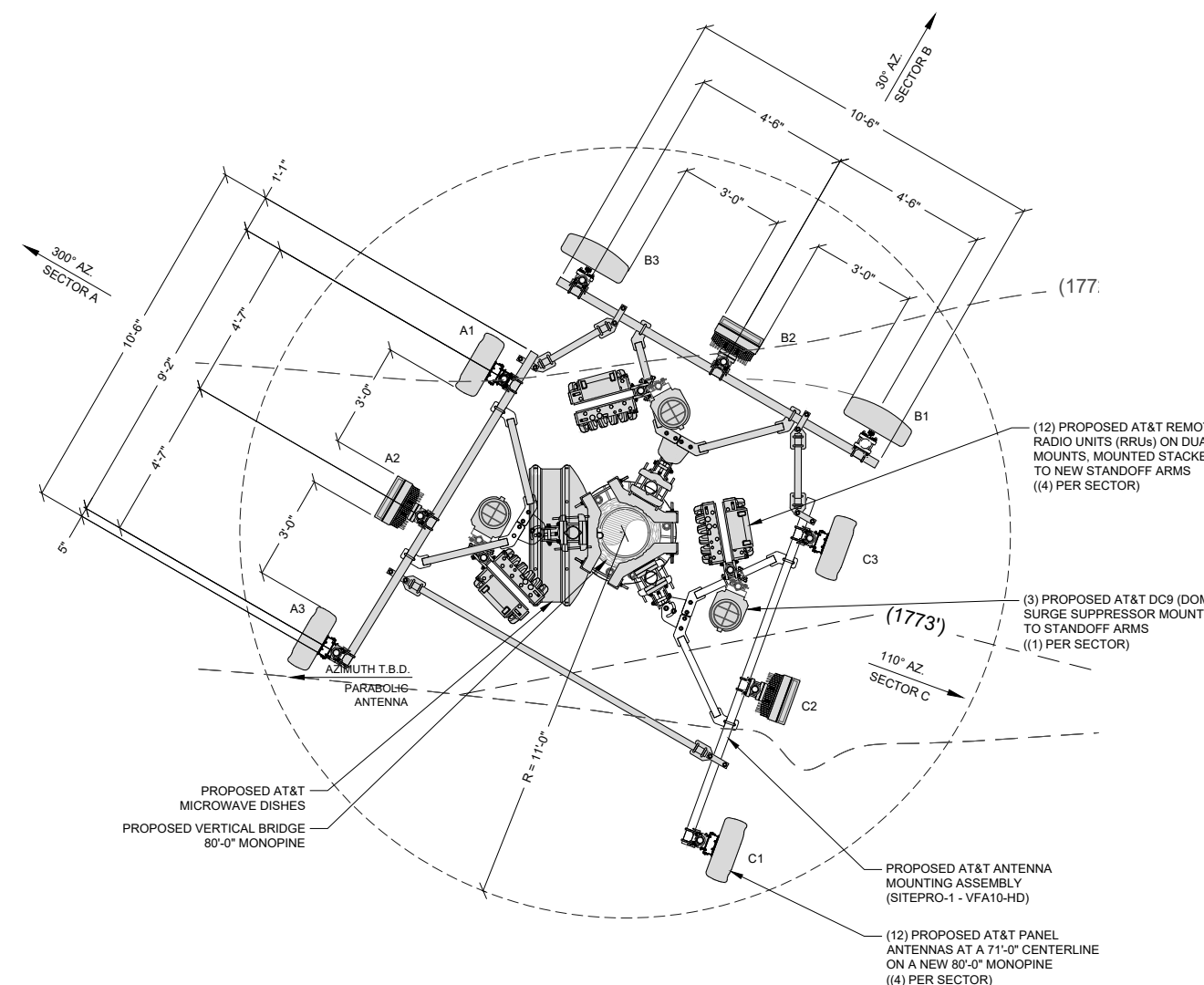
SHEET NUMBER: REVISION:

A3 0

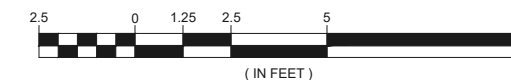
ANTENNA AND EQUIPMENT SCHEDULE									
	POSITION	ANTENNA AZIMUTH	ANTENNA MAKE	ANTENNA MODEL	RRUs	EQUIPMENT CENTERLINE	CABLE TYPE	HYBRID TYPE	CABLE LENGTH
ALPHA SECTOR	1	30°	CCI	TPA45R-BU6BB-K	(1) RADIO 4490 B5/B12 (1) RADIO 4890 B25/B66	80'-0"	(22) FIBER JUMPERS	(1) 9X18 HYBRID CABLE	110'
	2 (TOP)		ERICSSON	AIR 6419 B77G (TOP)	INTEGRATED WITHIN AIR6419 B77G				
	2 (BOTTOM)		ERICSSON	AIR 6419 B77D (BOTTOM)	INTEGRATED WITHIN AIR6419 B77D				
	3		CCI	TPA45R-BU6BB-K	(1) RADIO 4478 B14				
BETA SECTOR	1	300°	QUINTEL	QD6612-2	(1) RADIO 4490 B5/B12 (1) RADIO 4890 B25/B66	80'-0"	(22) FIBER JUMPERS	(1) 9X18 HYBRID CABLE	110'
	2 (TOP)		ERICSSON	AIR 6419 B77G (TOP)	INTEGRATED WITHIN AIR6419 B77G				
	2 (BOTTOM)		ERICSSON	AIR 6419 B77D (BOTTOM)	INTEGRATED WITHIN AIR6419 B77D				
	3		QUINTEL	QD6612-2	(1) RADIO 4478 B14				
GAMMA SECTOR	1	110°	QUINTEL	QD6612-2	(1) RADIO 4490 B5/B12 (1) RADIO 4890 B25/B66	80'-0"	(22) FIBER JUMPERS	(1) 9X18 HYBRID CABLE	110'
	2 (TOP)		ERICSSON	AIR 6419 B77G (TOP)	INTEGRATED WITHIN AIR6419 B77G				
	2 (BOTTOM)		ERICSSON	AIR 6419 B77D (BOTTOM)	INTEGRATED WITHIN AIR6419 B77D				
	3		QUINTEL	QD6612-2	(1) RADIO 4478 B14				

RFDS ID	5749653
RFDS DATE	01/25/2024
RFDS VERSION	1.00

NOTE:  
1. ANTENNA POSITION ARE LEFT TO RIGHT FROM FRONT OF ANTENNA



GRAPHIC SCALE



PROJECT INFORMATION:

CCL05273  
US-CAL-5415  
MOUNT HAMILTON ROAD  
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SAN FRANCISCO, CALIFORNIA 94108

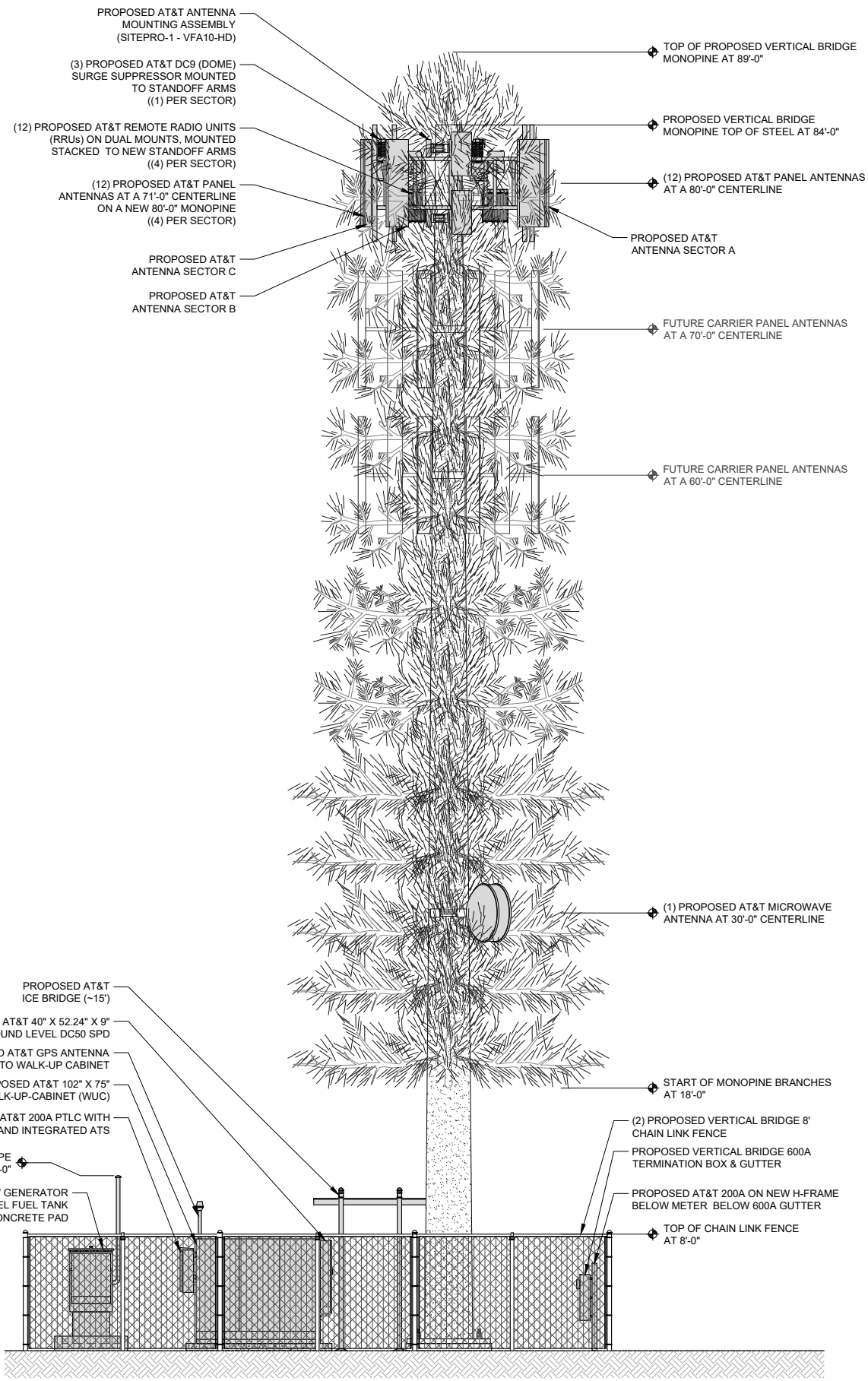
LICENSURE:

SHEET TITLE:

PROPOSED NORTHWEST  
AND NORTHEAST  
ELEVATIONS

SHEET NUMBER: REVISION:

A4 0

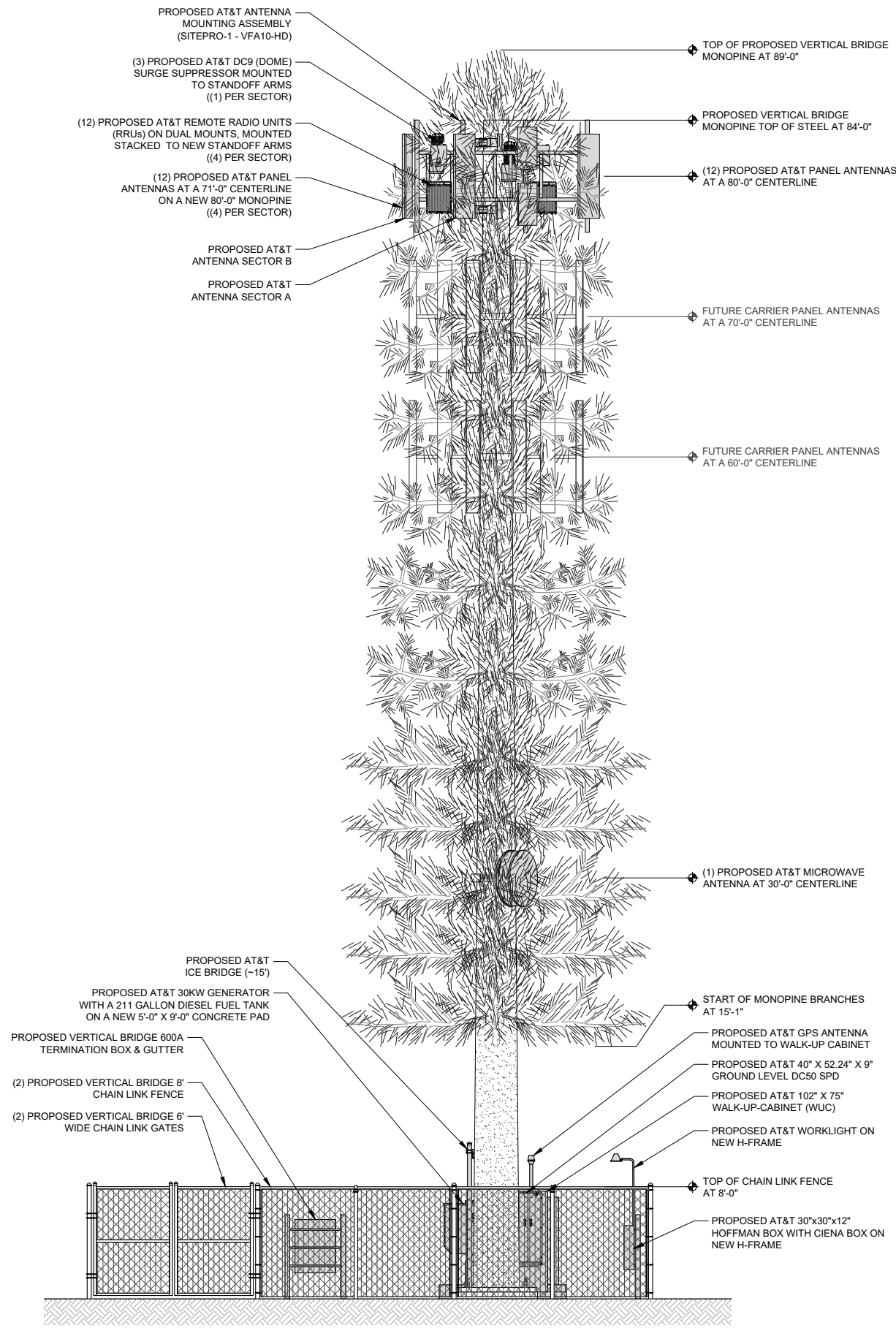


PROPOSED NORTH EAST ELEVATION

11" X 17" SCALE 24" X 36" SCALE  
1" = 10' 1" = 5'

2

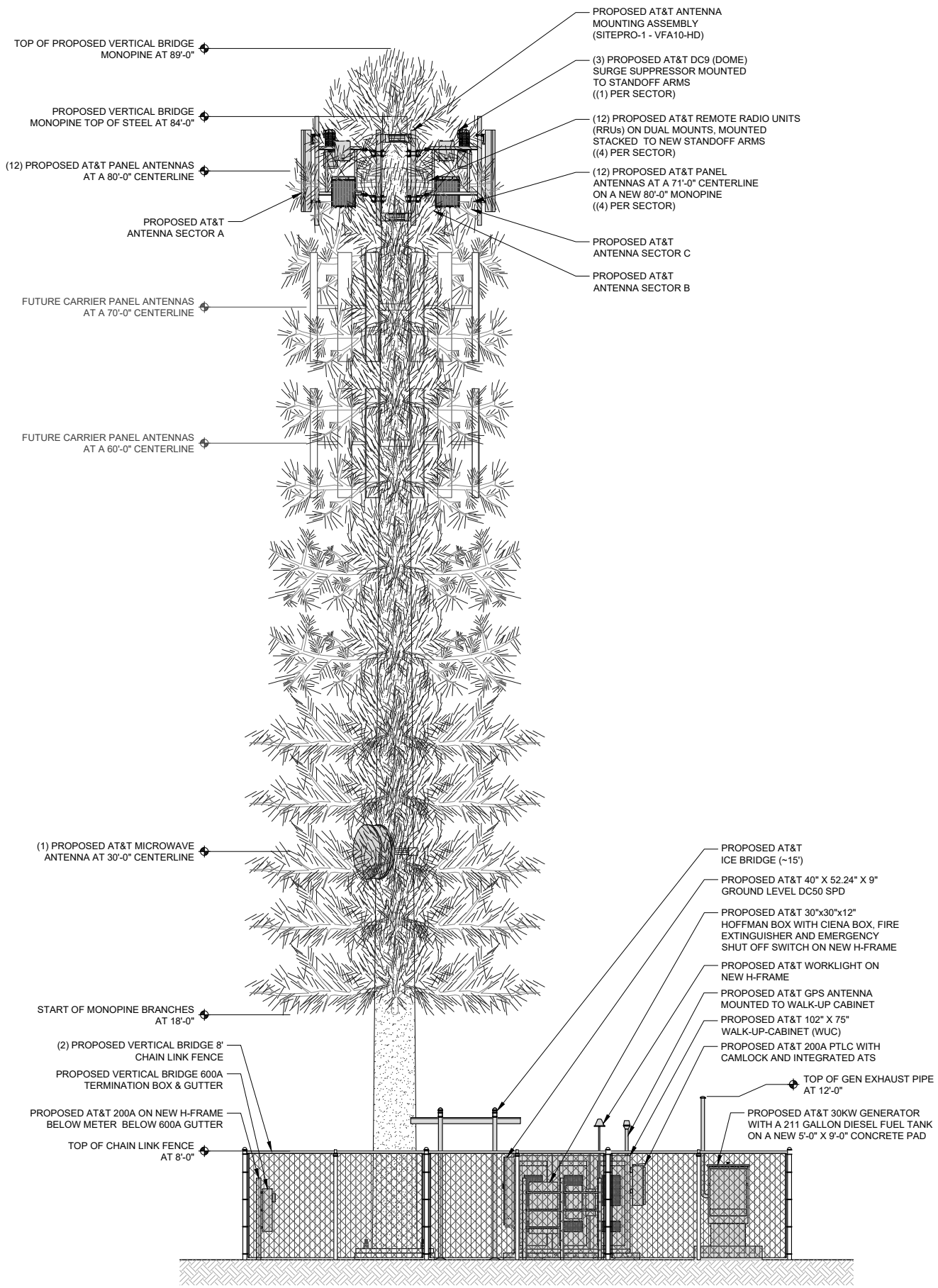
PROPOSED NORTHWEST ELEVATION



11" X 17" SCALE 24" X 36" SCALE  
1" = 10' 1" = 5'

1

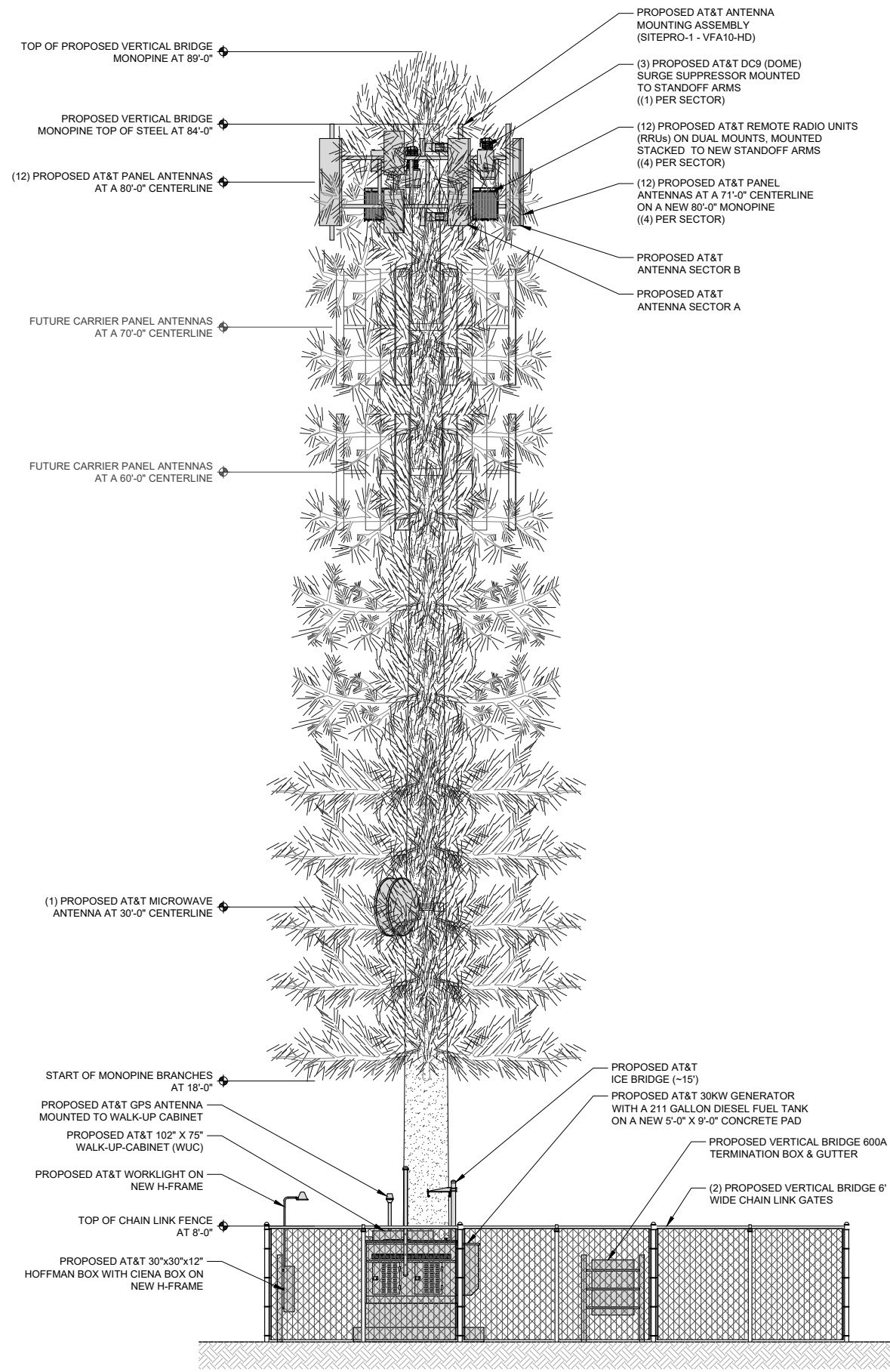




PROPOSED SOUTHWEST ELEVATION

11" X 17" SCALE 24" X 36" SCALE  
1" = 10' 1" = 5'

2



PROPOSED SOUTHEAST ELEVATION

11" X 17" SCALE 24" X 36" SCALE  
1" = 10' 1" = 5'

1



750 PARK OF COMMERCE DRIVE  
BOCA RATON, FLORIDA 33487



5001 EXECUTIVE PARKWAY  
SAN RAMON, CALIFORNIA 94583

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240 STOCKTON STREET, 3RD FLR.  
SAN FRANCISCO, CALIFORNIA 94108

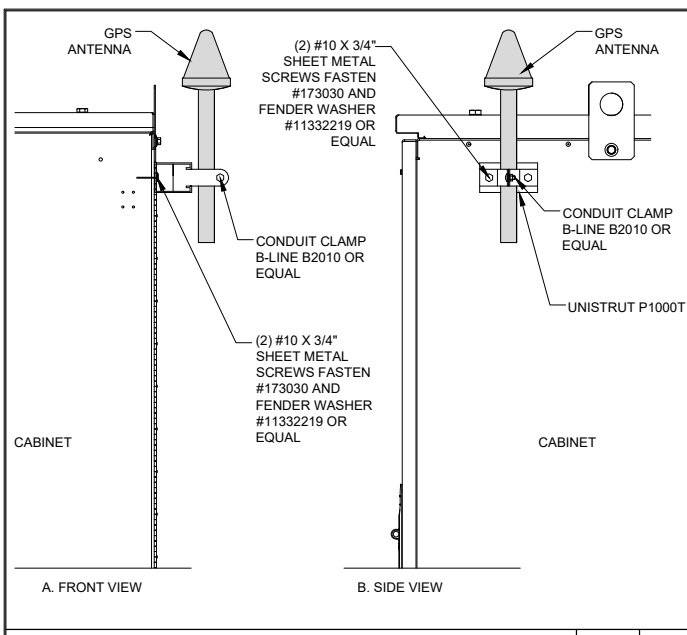
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SHEET TITLE:

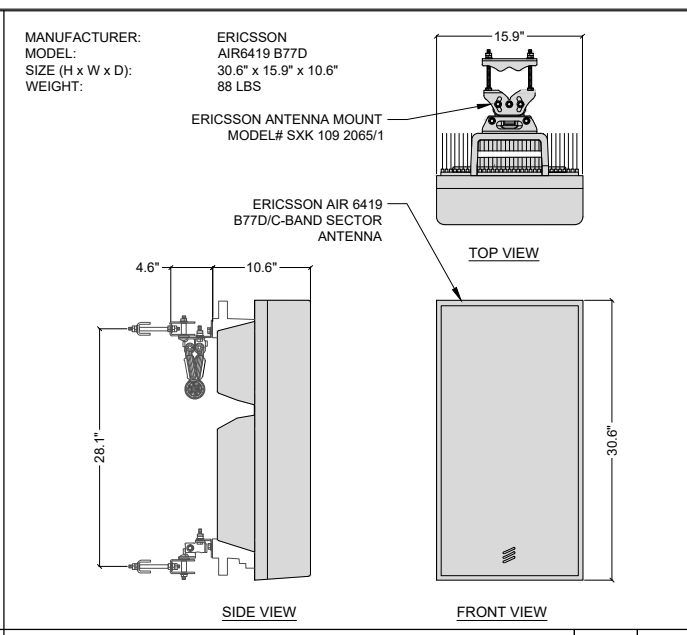
PROPOSED SOUTHEAST  
AND SOUTHWEST  
ELEVATIONS

SHEET NUMBER: REVISION:

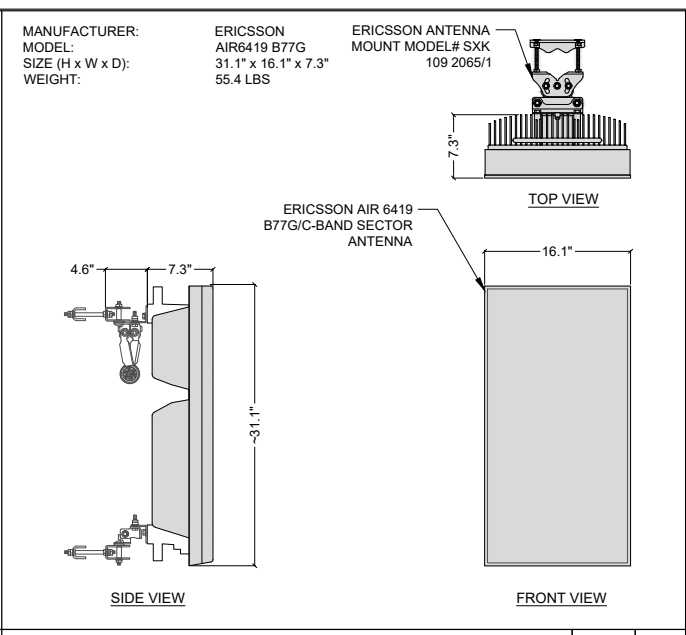
A5 0



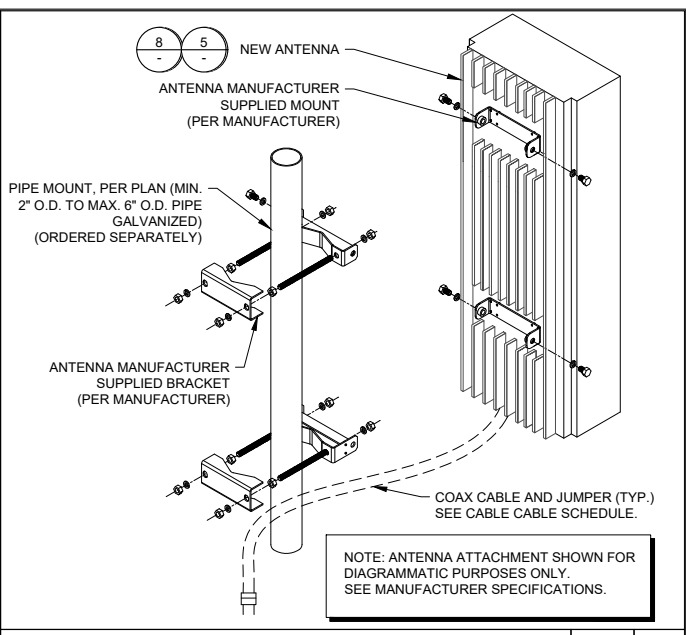
GPS ATTACHMENT SCALE: NONE 11



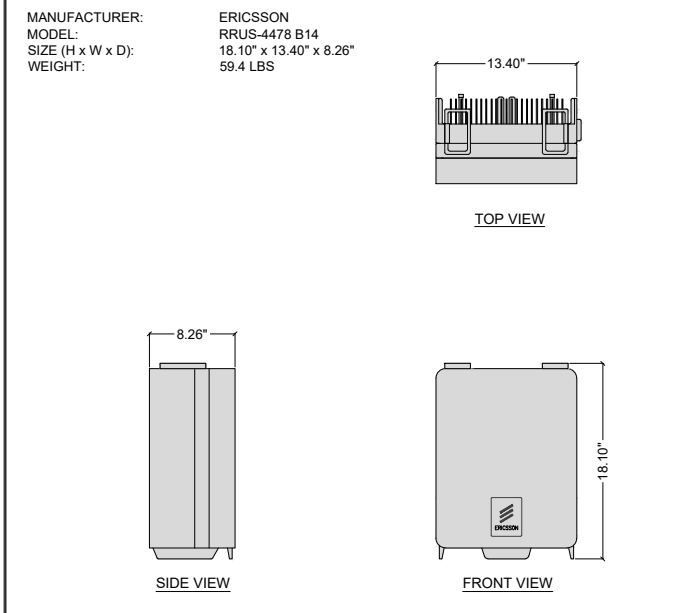
PANEL ANTENNA SCALE: NONE 8



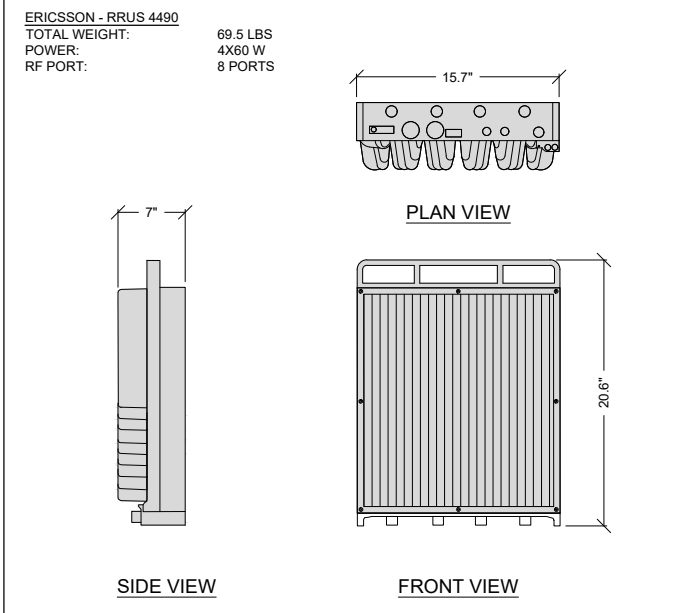
PANEL ANTENNA SCALE: NONE 5



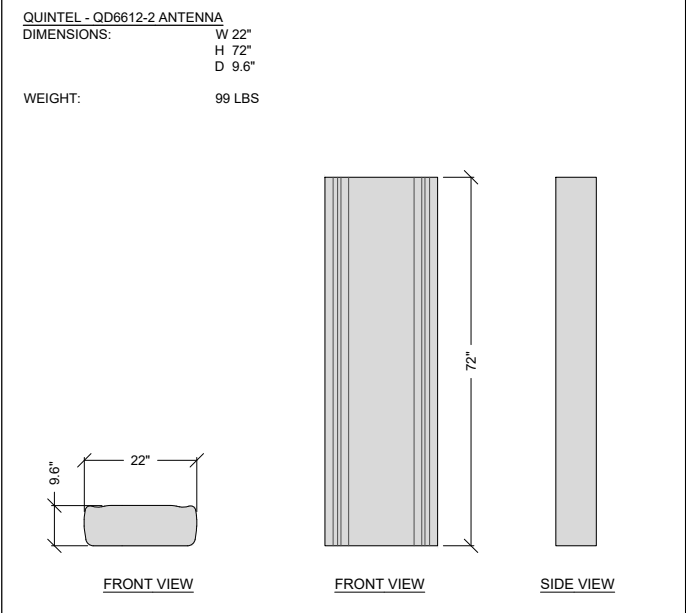
ANTENNA ATTACHMENT SCALE: NONE 2



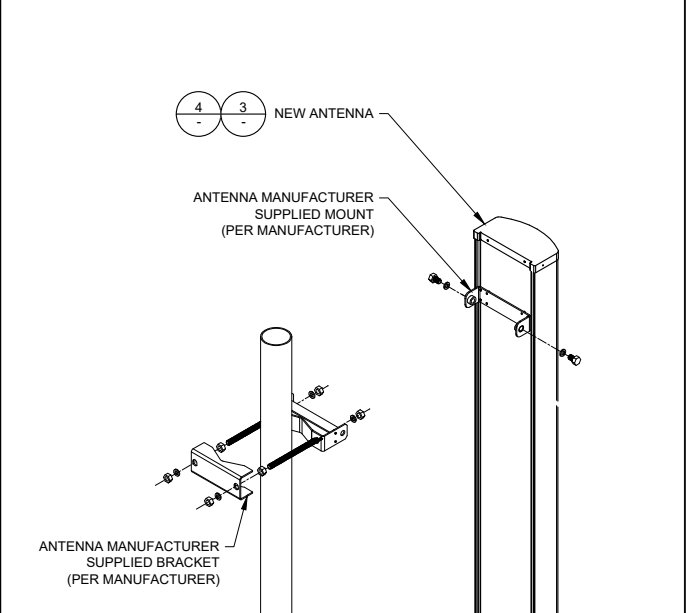
REMOTE RADIO HEAD (RRH) SCALE: NONE 10



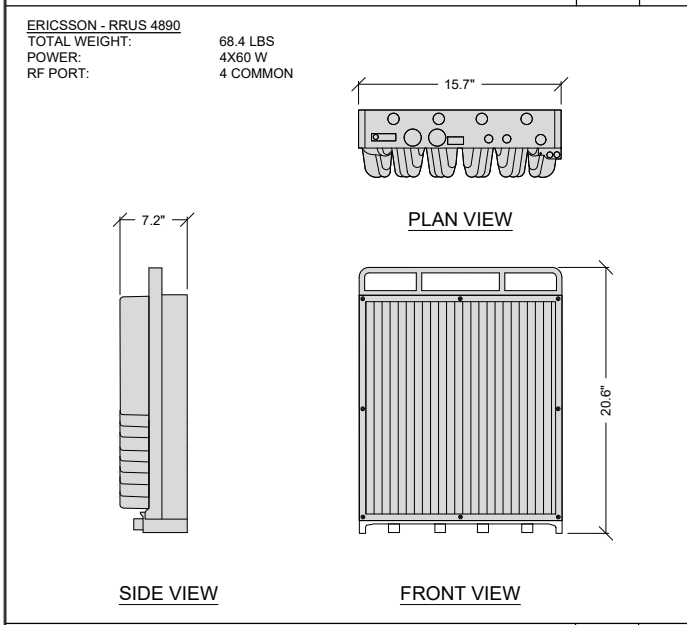
REMOTE RADIO HEAD (RRH) SCALE: NONE 7



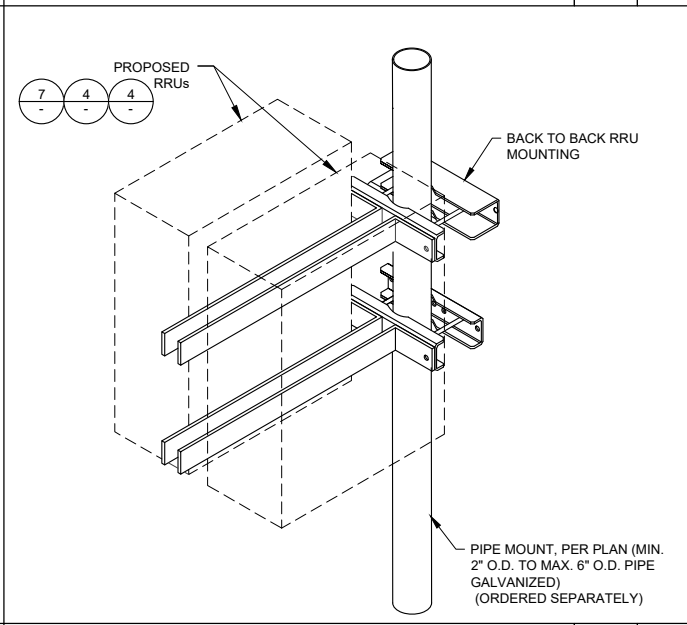
PANEL ANTENNA SCALE: NONE 4



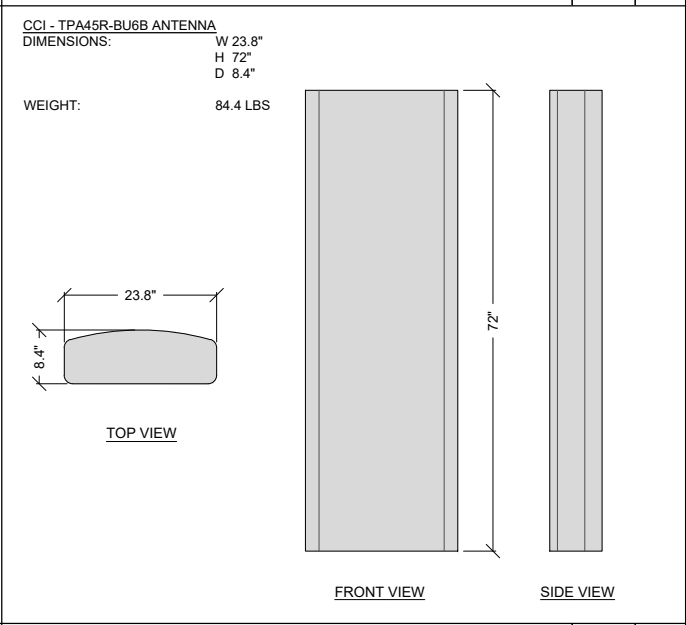
ANTENNA ATTACHMENT SCALE: NONE 1



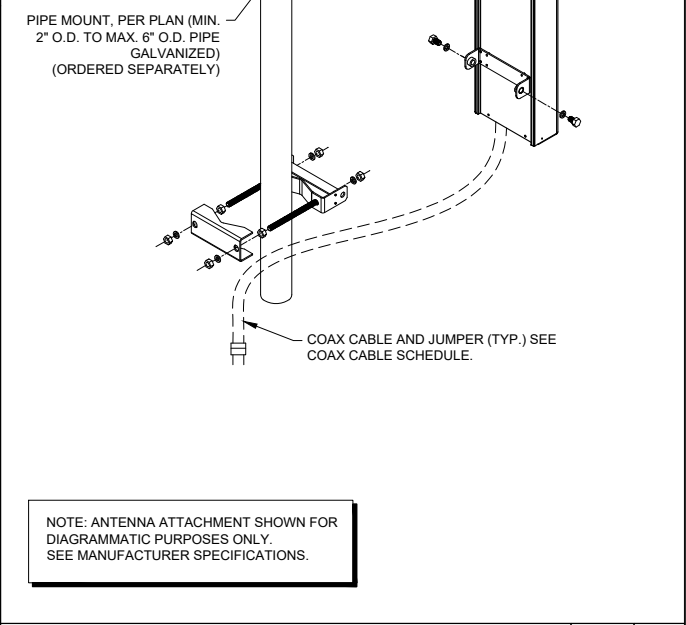
REMOTE RADIO UNIT (RRU) SCALE: NONE 9



RRU ATTACHMENT SCALE: NONE 6



PANEL ANTENNA SCALE: NONE 3



ANTENNA ATTACHMENT SCALE: NONE 1



PROJECT INFORMATION:  
**CCL05273**  
**US-CAL-5415**  
**MOUNT HAMILTON ROAD**  
 15815 MT HAMILTON ROAD  
 SAN JOSE, CALIFORNIA 95140

CURRENT ISSUE DATE:  
**04/23/24**

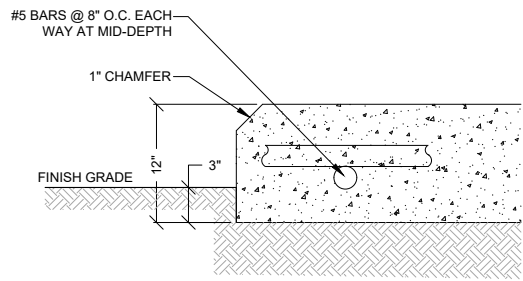
ISSUED FOR:  
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0	04/23/24	100% ZONING	R.C.
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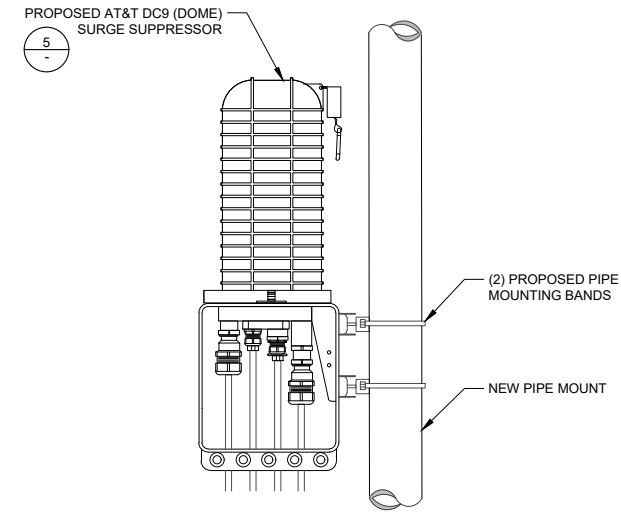
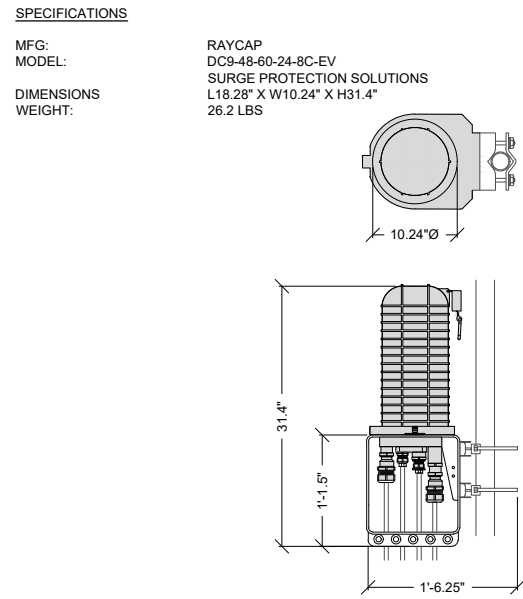
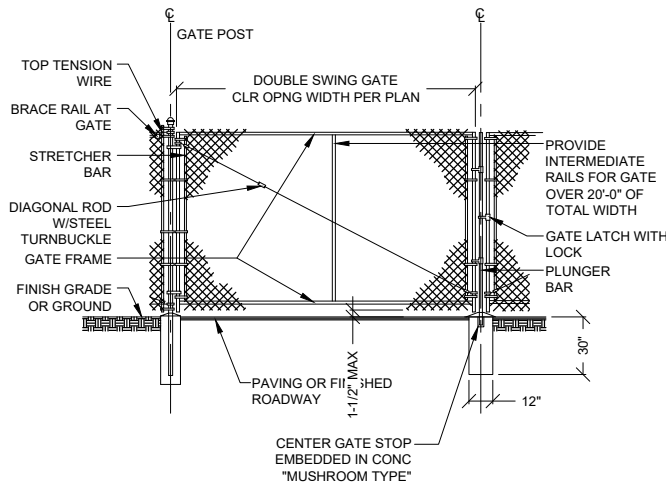
PLANS PREPARED BY:  
  
**MODUS, LLC**  
 240 STOCKTON STREET, 3RD FLR.  
 SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:  
 SHEET TITLE:  
**CONSTRUCTION DETAILS**

SHEET NUMBER: **D1** REVISION: **0**



CONCRETE MIX DESIGNS SHALL CONFORM TO IBC SECTION 1905. PORTLAND CEMENT SHALL BE TYPE V AND CONFORM TO ASTM C150. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI. REINFORCING STEEL FOR SLAB ON GRADE SHALL CONFORM TO ASTM A615.

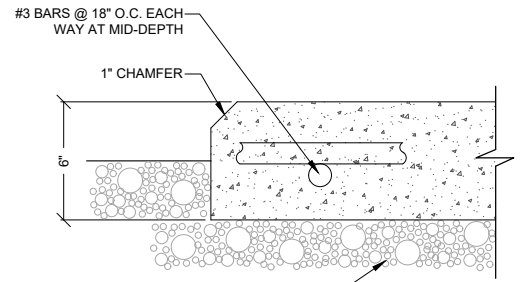


CONCRETE PAD SCALE: NONE 11

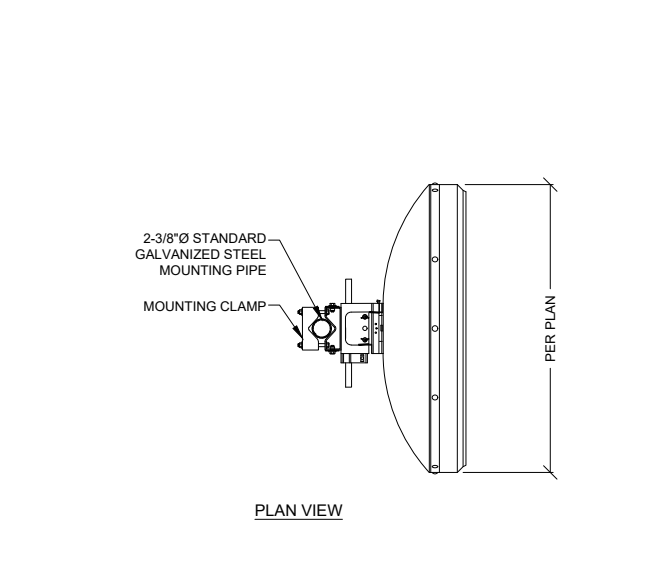
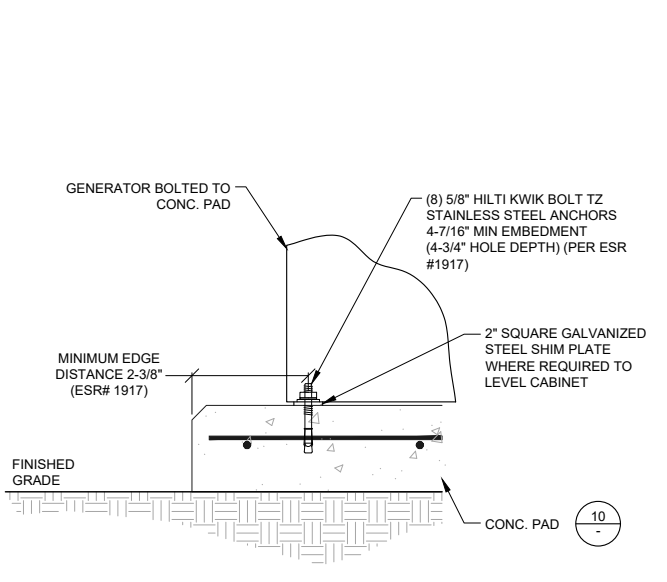
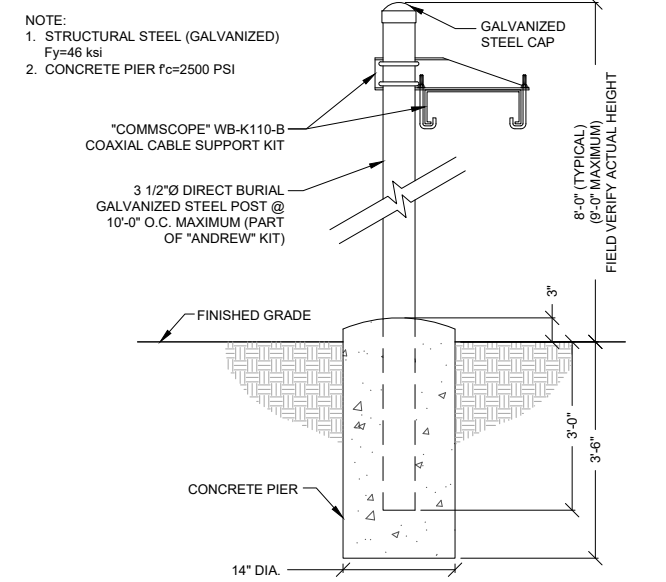
DOUBLE CHAIN LINK GATES SCALE: NONE 8

SURGE SUPPRESSION (SQUID) SCALE: NONE 5

SURGE SUPPRESSOR ATTACHMENT SCALE: NONE 2



CONCRETE MIX DESIGNS SHALL CONFORM TO LA COUNTY BUILDING CODE SECTION 1905. PORTLAND CEMENT SHALL BE TYPE II AND CONFORM TO ASTM C150. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI. REINFORCING STEEL FOR SLAB ON GRADE SHALL CONFORM TO ASTM A615.

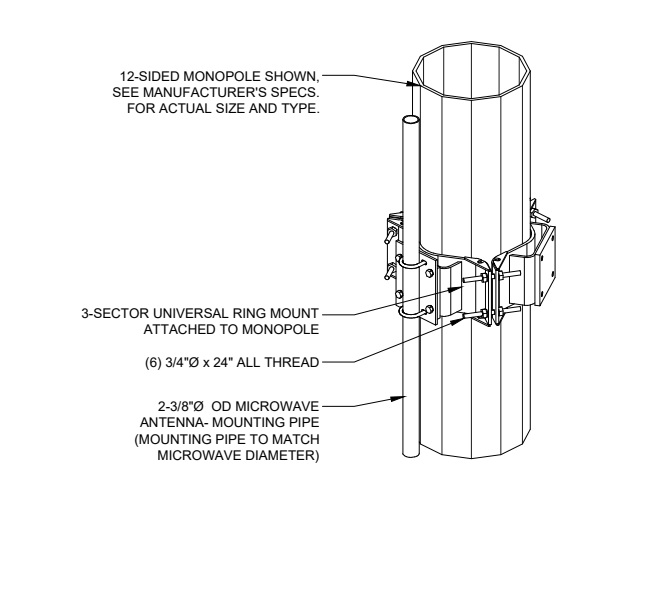
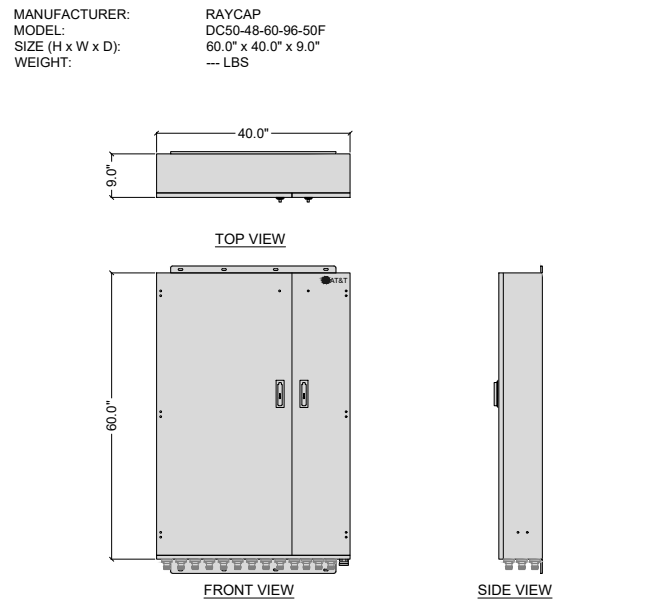
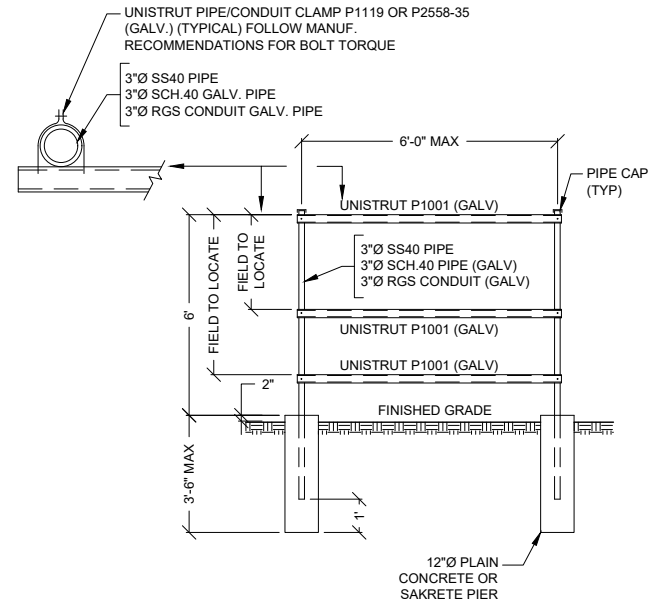
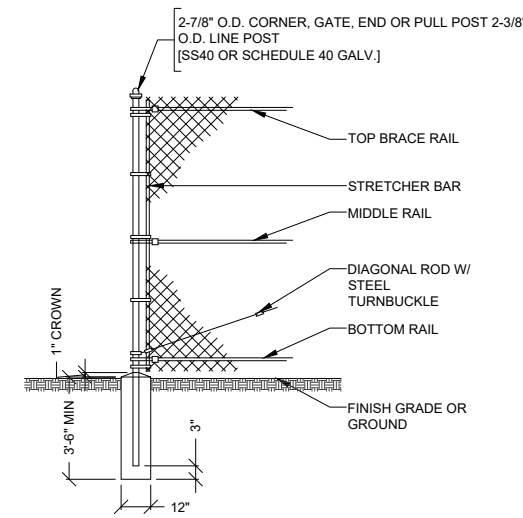


CONCRETE PAD SCALE: NONE 10

ICE BRIDGE SCALE: NONE 7

EQUIPMENT ANCHORAGE SCALE: NONE 4

MICROWAVE DISH ATTACHMENT SCALE: NONE 1



CHAIN LINK FENCE SCALE: NONE 9

H-FRAME SCALE: NONE 6

DC50 SURGE SUPPRESSOR SCALE: NONE 3

MICROWAVE DISH ATTACHMENT SCALE: NONE 1



PROJECT INFORMATION:  
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 SAN JOSE, CALIFORNIA 95140

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PLANS PREPARED BY:



LICENSURE:

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: REVISION:

D2 0

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PLANS PREPARED BY:

**m**  
MODUS, LLC  
240 STOCKTON STREET, 3RD FLR.  
SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: REVISION:

D3 0

NOT USED SCALE: NONE 6

NOT USED SCALE: NONE 5

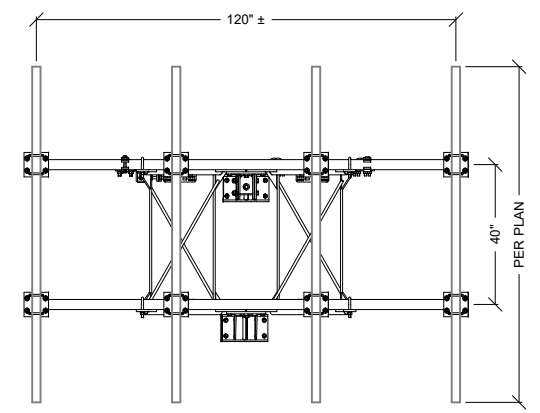
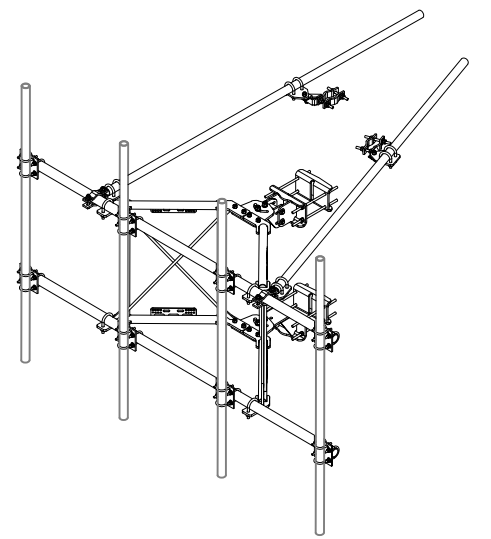
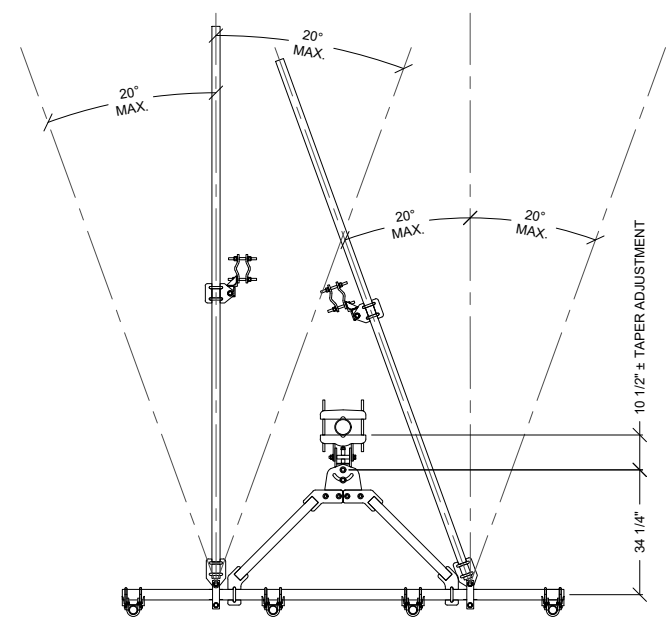
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NOT USED SCALE: NONE 2

SITE PRO-1: VFA10-HD

10'-6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF-ARMS

NOTE:  
FOR FULL PART LIST AND INSTALLATION  
INSTRUCTIONS, SEE MANUFACTURER  
SPECIFICATIONS

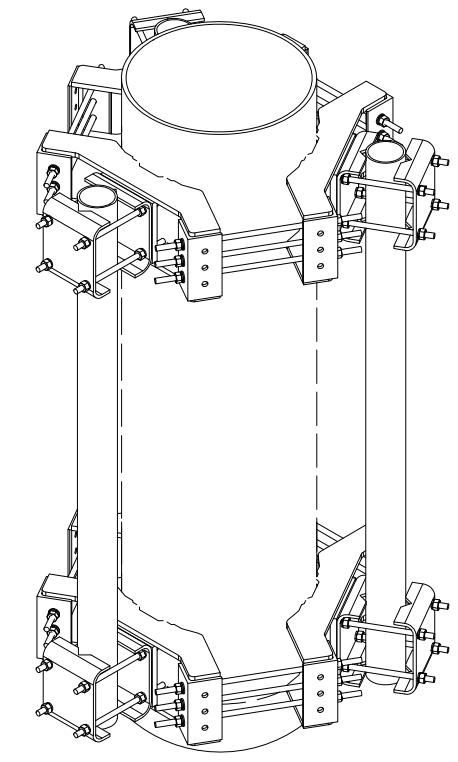
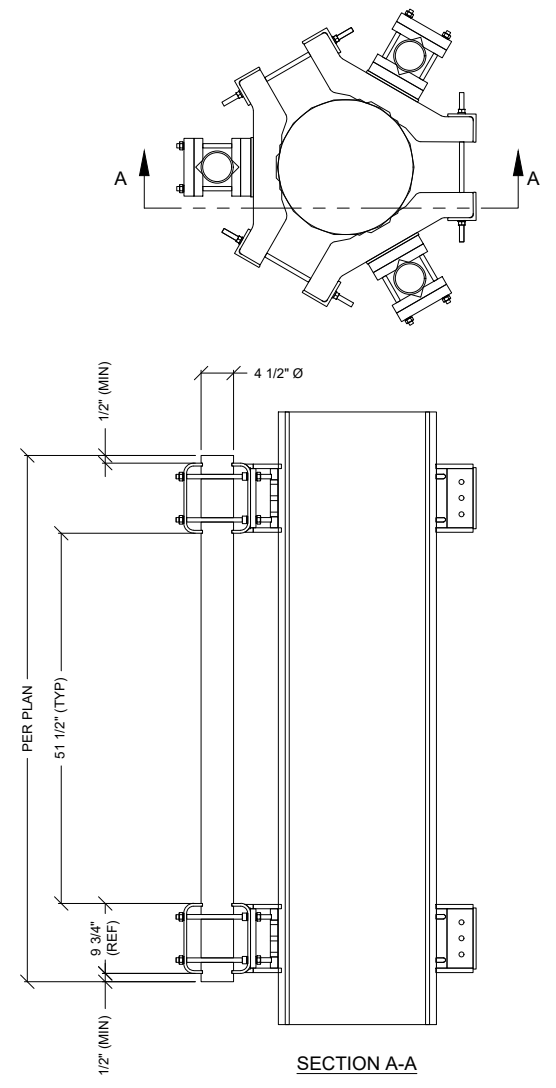


ANTENNA MOUNTING ASSEMBLY SCALE: NONE 4

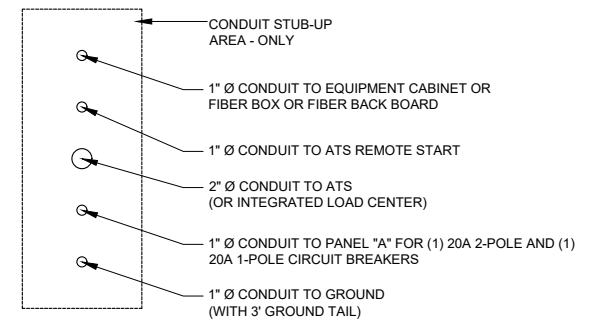
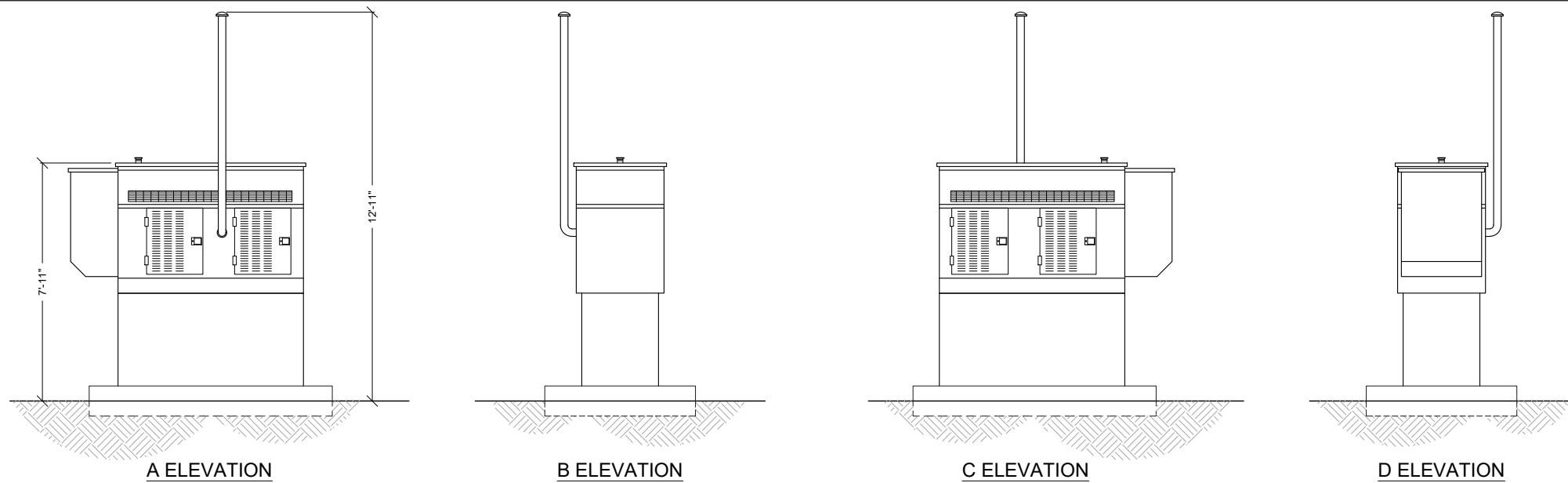
SITE PRO-1: VFA10-HD

10'-6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF-ARMS

NOTE:  
FOR FULL PART LIST AND INSTALLATION  
INSTRUCTIONS, SEE MANUFACTURER  
SPECIFICATIONS

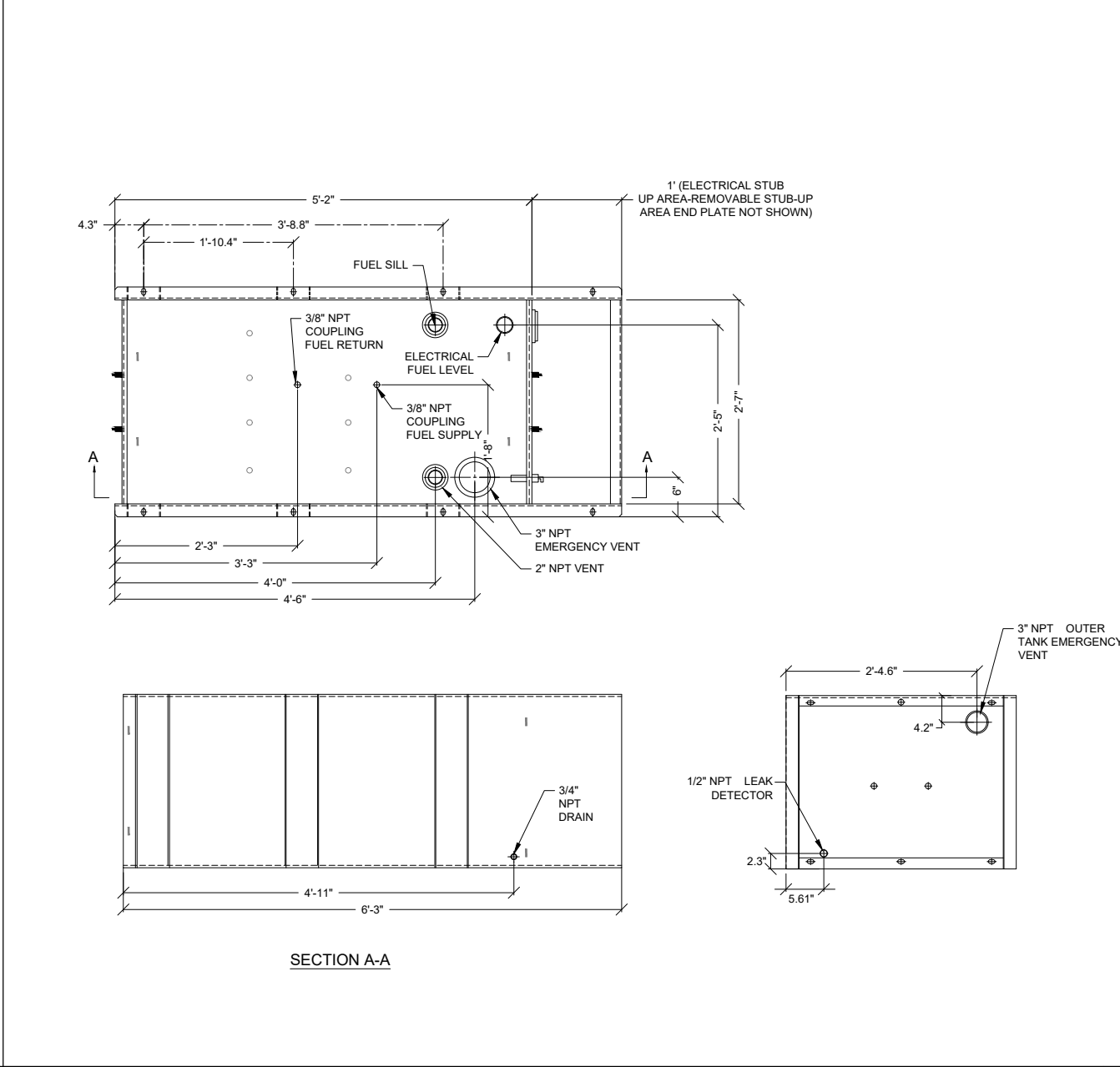
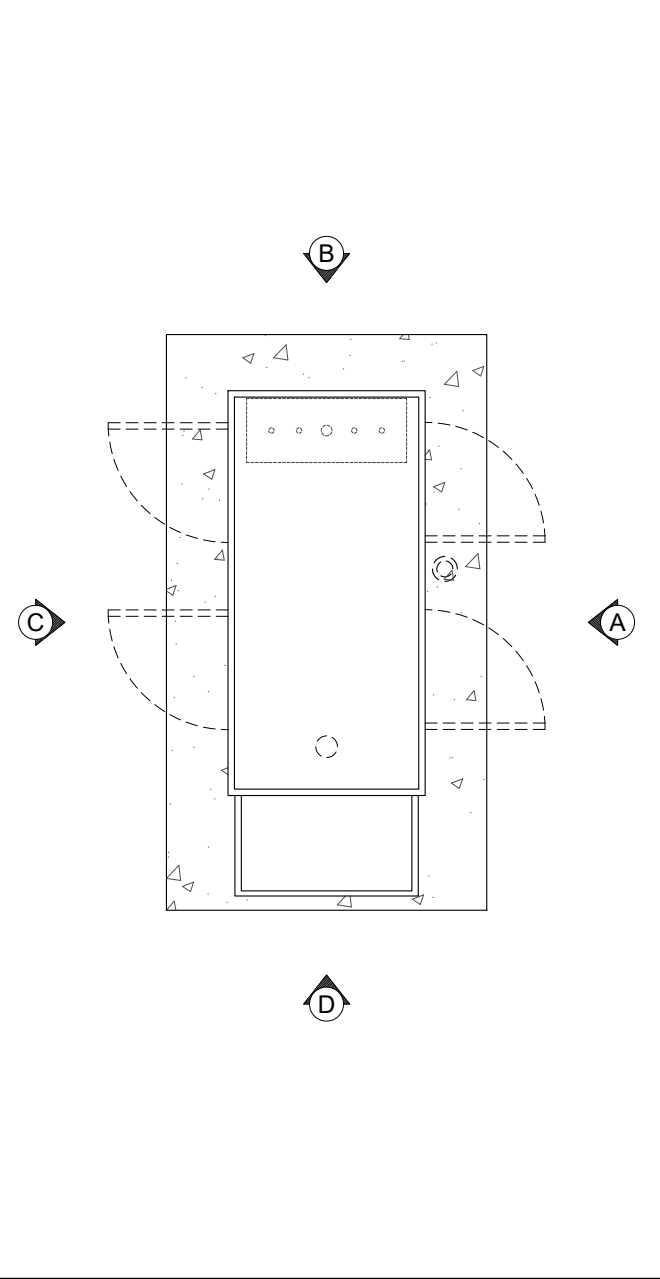


COLLAR MOUNT ASSEMBLY SCALE: NONE 1



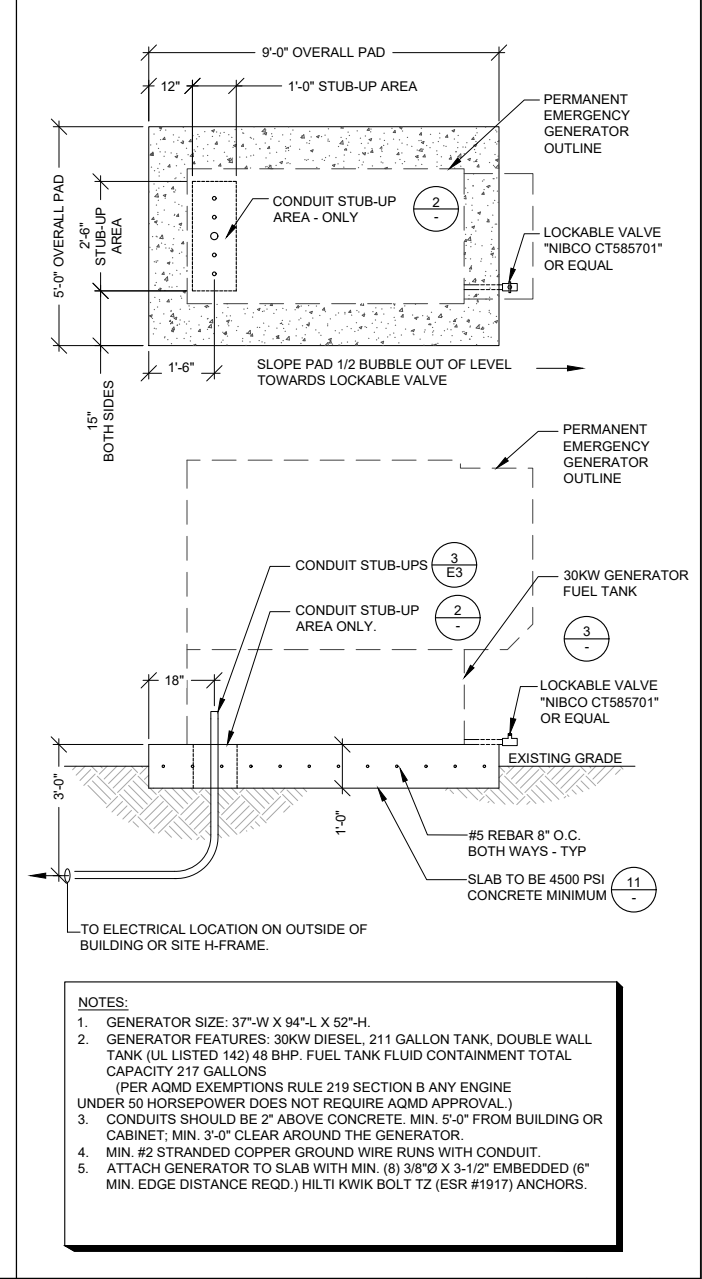
ELEVATIONS      SCALE: NONE      4

CONDUIT STUB-UP AREA      SCALE: NONE      2



PLAN VIEW      SCALE: 1" = 3'      5

GENERATOR FUEL TANK (211 GALLON)      SCALE: NONE      3



30KW GENERATOR PAD      SCALE: NONE      1

- NOTES:**
- GENERATOR SIZE: 37"-W X 94"-L X 52"-H.
  - GENERATOR FEATURES: 30KW DIESEL, 211 GALLON TANK, DOUBLE WALL TANK (UL LISTED 142) 48 BHP. FUEL TANK FLUID CONTAINMENT TOTAL CAPACITY 217 GALLONS (PER AQMD EXEMPTIONS RULE 219 SECTION B ANY ENGINE UNDER 50 HORSEPOWER DOES NOT REQUIRE AQMD APPROVAL.)
  - CONDUITS SHOULD BE 2" ABOVE CONCRETE. MIN. 5'-0" FROM BUILDING OR CABINET; MIN. 3'-0" CLEAR AROUND THE GENERATOR.
  - MIN. #2 STRANDED COPPER GROUND WIRE RUNS WITH CONDUIT.
  - ATTACH GENERATOR TO SLAB WITH MIN. (8) 3/8"Ø X 3-1/2" EMBEDDED (6" MIN. EDGE DISTANCE REQD.) HILTI KWIK BOLT TZ (ESR #1917) ANCHORS.

**verticalbridge**  
750 PARK OF COMMERCE DRIVE  
BOCA RATON, FLORIDA 33487

**at&t**  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CALIFORNIA 94583

PROJECT INFORMATION:  
**CCL05273**  
**US-CAL-5415**  
**MOUNT HAMILTON ROAD**  
15815 MT HAMILTON ROAD  
SAN JOSE, CALIFORNIA 95140

CURRENT ISSUE DATE:  
**04/23/24**

ISSUED FOR:

**ZONING**

REV. :    DATE:    DESCRIPTION:    BY:

0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.

PLANS PREPARED BY:  
**MODUS**  
MODUS, LLC  
240 STOCKTON STREET, 3RD FLR.  
SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

SHEET TITLE:

**GENERATOR DETAILS**

SHEET NUMBER:      REVISION:

**D4**      0

**ELECTRICAL INSTALLATION METHODS:**

- THIS INSTALLATION SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND WITH UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC OR PVC CONDUIT TO THE INTERIOR OF THE BTS CABINET.
- POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
- CUT, COIL AND TAPE A 3 FOOT PITTAIL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS OR BELOW GRADE SHALL BE SINGLE CONDUCTOR #2 AWG SOLID, TINNED, COPPER CABLE.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC, CABLE (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B, STRANDED COPPER CABLE RATED FOR 90°C (WET OR DRY) OPERATION, WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE AND NEC.
- (N) RACEWAY OR CABLE TRAY SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP STYLE, COMPRESSION, WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C.
- EACH END OF EVERY POWER, GROUNDING AND T/C CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR CODED INSULATION OR ELECTRICAL TAPE. THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (PANELBOARD AND CIRCUIT IDENTIFICATION).
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- RIGID NONMETALLIC CONDUIT (PVC SCHEDULE 40 OR PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- ALL CONDUIT RUN ABOVE GROUND OR EXPOSED SHALL BE LFMC, IMC OR RIGID STEEL.
- ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC. THE SITE SPECIFIC LIGHTNING PROTECTION CODE AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR (N) GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION SIZED IN ACCORDANCE WITH THE NEC SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH INDOOR BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH SUPPLEMENTAL EQUIPMENT GROUND WIRES #6 OR LARGER.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- SURFACES TO BE CONNECTED TO GROUND CONDUCTORS SHALL BE CLEANED TO A BRIGHT SURFACE AT ALL CONNECTIONS.
- EXPOSED GROUND CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS WHICH ARE THEN BOLTED TO EQUIPMENT USING STAINLESS STEEL HARDWARE. INSTALLATION TORQUE SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- DC POWER CABLES SHALL BE COBRA COP-FLEX 2000, FLEXIBLE CLASS B OR APPROVED EQUAL.

**ELECTRICAL NOTES**

**GENERAL REQUIREMENTS:**

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH IS NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ENGINEER.
- COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
- THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER, REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
- "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES

**EQUIPMENT LOCATION:**

- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE.
- COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY, OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

**SHOP DRAWINGS:**

- N/A UNLESS NOTED OTHERWISE.

**SUBSTITUTIONS:**

- NO SUBSTITUTIONS ARE ALLOWED

**TESTS:**

- BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

**PERMITS:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

**GROUNDING:**

- THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- REFER TO GROUND BUS DETAILS. PROVIDE (N) GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED THHN (GREEN) INSULATION.
- ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

**UTILITY SERVICE:**

- TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

**PRODUCTS:**

- ALL MATERIALS SHALL BE (N), CONFORMING WITH NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- 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 U.L. LABEL, FITTINGS SHALL BE 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 EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
  - CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING 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 UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE
  - ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
  - CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4x4 REDWOOD SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.

- ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.
- PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.
- DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.
- TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.
- PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY.
- ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

**INSTALLATION:**

- PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., SUPPORT LUMINARIES FROM UNDERSIDE OF STRUCTURAL CEILING. EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.
- CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ENGINEER BEFORE CORING.
- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER THE 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 THE REQUIREMENTS OF THE C.B.C.

**PROJECT CLOSEOUT:**

- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALLS DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- 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, CATALOG, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.



**PROJECT INFORMATION:**

CCL05273  
US-CAL-5415  
MOUNT HAMILTON ROAD  
15815 MT HAMILTON ROAD  
SAN JOSE, CALIFORNIA 95140

**CURRENT ISSUE DATE:**

04/23/24

**ISSUED FOR:**

ZONING

**REV. : DATE: DESCRIPTION: BY:**

0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.

**PLANS PREPARED BY:**



**LICENSURE:**

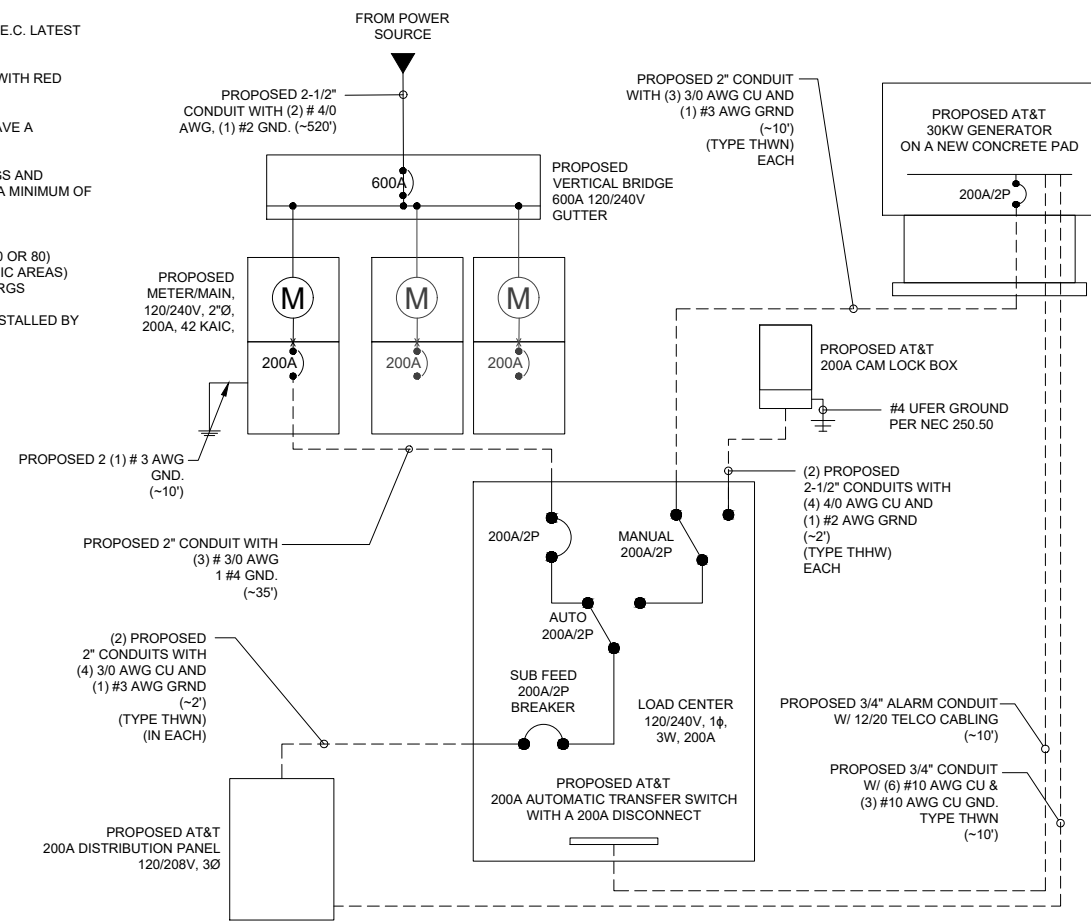
**SHEET TITLE:**

ELECTRICAL NOTES

**SHEET NUMBER: REVISION:**

E1 0

- NOTES:**
- ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
  - LABEL SERVICE DISCONNECT WITH RED TAG
  - ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
  - EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
  - CONDUIT REQUIREMENTS
    - UNDERGROUND PVC (SCH 40 OR 80)
    - INDOOR: EMT (RGS IN TRAFFIC AREAS)
    - OUTDOOR (ABOVE GRADE): RGS
  - LIGHTING IS DESIGNED AND INSTALLED BY SHELTER MANUFACTURER



SINGLE LINE DIAGRAM

SCALE: NONE 4

**ELECTRICAL CERTIFICATES**

- UTILITY POINTS OF SERVICE AND WORK/MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACK FILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS COMPLY WITH NEC (LISTED ON T1) ARTICLE 210.19(A)(1) FPN NO. 4.

**ELECTRICAL NOTES**

SCALE: NONE 3

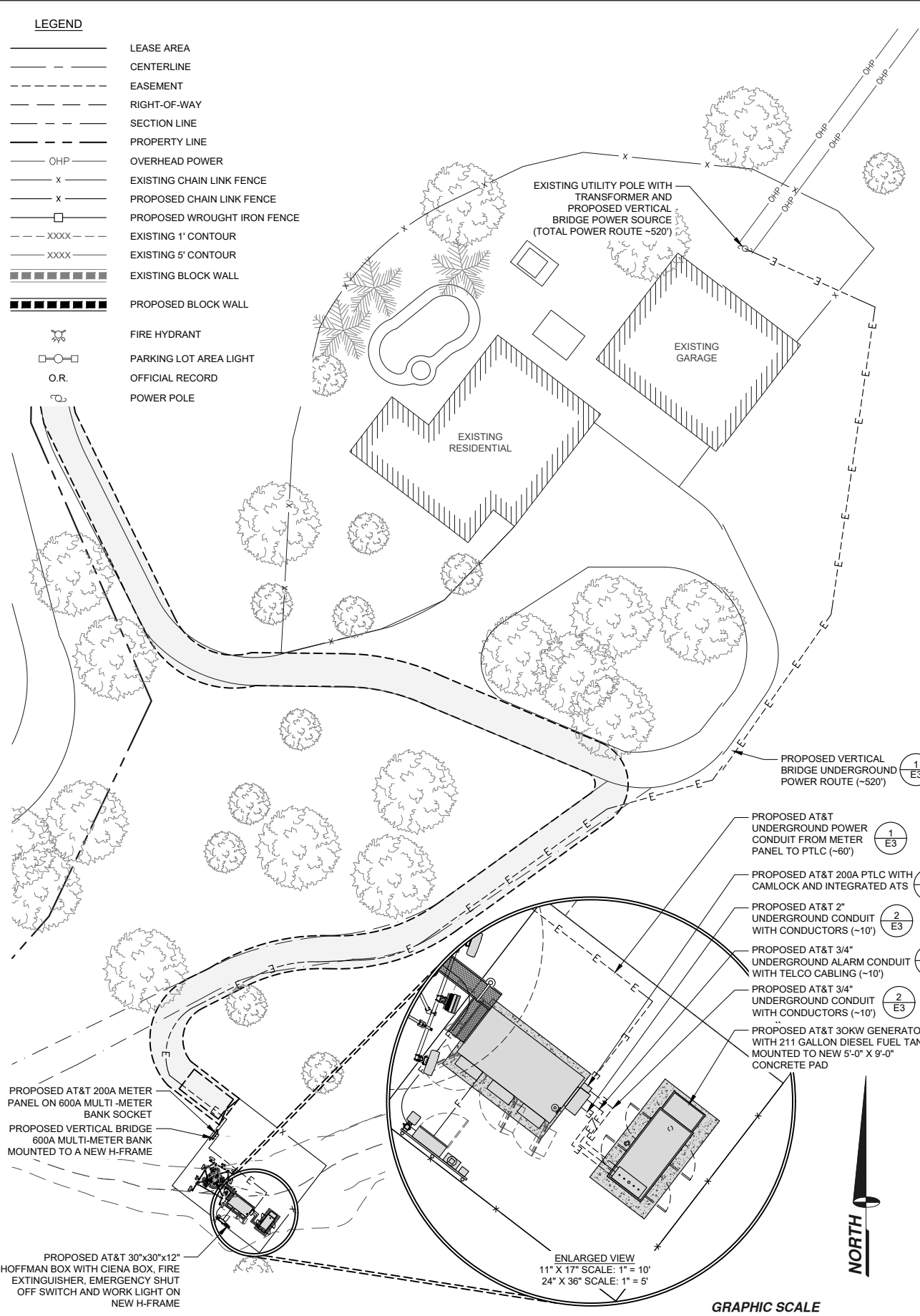
PANEL NAME:		BUS:		P VOLTAGE:		MOUNTING:	
X		225		120/208, 1Ø, 3W		PEDESTAL	
LOCATION:		MAIN C.B.:		AIC RATING:		TYPE:	
R.O.W.		200		42,000		MAIN/SUB	
CIRCUIT TYPE:		N = NON-CONTINUOUS		C = CONTINUOUS			
CKT #	TY	TRP	POL	DESCRIPTION	ØA	ØB	
1	N	30		SPARE	2,150		
3	N		2			2,150	
5	N	25		HVAC	1,400		
7	N		2			1,400	
9	N	20	1	GFCI	180		
11	N	30		RECTIFIER # 1 & 2	2,150	2,150	
13	N		2		2,150	2,150	
15	N	30		RECTIFIER # 3 & 4	2,150	2,150	
17	N		2		2,150		
19	N	30		RECTIFIER # 5 & 6		2,150	
21	N		2		2,150		
23	N	20	1				
25	N	20	1				
27	N	20	1				
29	N	20	1				
<b>PHASE TOTALS</b>				<b>ØA =</b>	<b>17,670</b>	<b>ØB =</b>	<b>16,810</b>
				<b>TOTAL CONNECTED VA:</b>	<b>34,480.00</b>		
				<b>PANEL DEMAND KVA:</b>	<b>34.48</b>		
				<b>PANEL DEMAND AMPS:</b>	<b>165.77</b>		
				<b>RGEST Ø DEMAND AMPS:</b>	<b>169.90</b>		

PANEL SCHEDULE

SCALE: NONE 2

**LEGEND**

- LEASE AREA
- CENTERLINE
- EASEMENT
- RIGHT-OF-WAY
- SECTION LINE
- PROPERTY LINE
- OVERHEAD POWER
- EXISTING CHAIN LINK FENCE
- PROPOSED CHAIN LINK FENCE
- PROPOSED WROUGHT IRON FENCE
- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR
- EXISTING BLOCK WALL
- PROPOSED BLOCK WALL
- FIRE HYDRANT
- PARKING LOT AREA LIGHT
- OFFICIAL RECORD
- POWER POLE



UTILITY ROUTING

SCALE: NONE 2

**verticalbridge**  
750 PARK OF COMMERCE DRIVE  
BOCA RATON, FLORIDA 33487

**at&t**  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CALIFORNIA 94583

PROJECT INFORMATION:  
CCL05273  
US-CAL-5415  
MOUNT HAMILTON ROAD  
15815 MT HAMILTON ROAD  
SAN JOSE, CALIFORNIA 95140

CURRENT ISSUE DATE:  
04/23/24

ISSUED FOR:  
ZONING

REV.	DATE	DESCRIPTION	BY:
0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.

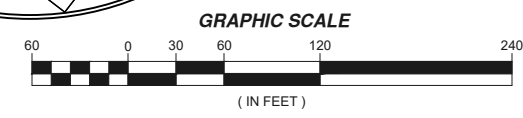
PLANS PREPARED BY:  
**MODUS**  
MODUS, LLC  
240 STOCKTON STREET, 3RD FLR.  
SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

SHEET TITLE:  
UTILITY ROUTING, PANEL SCHEDULE, SINGLE LINE DIAGRAM & NOTES

SHEET NUMBER: REVISION:

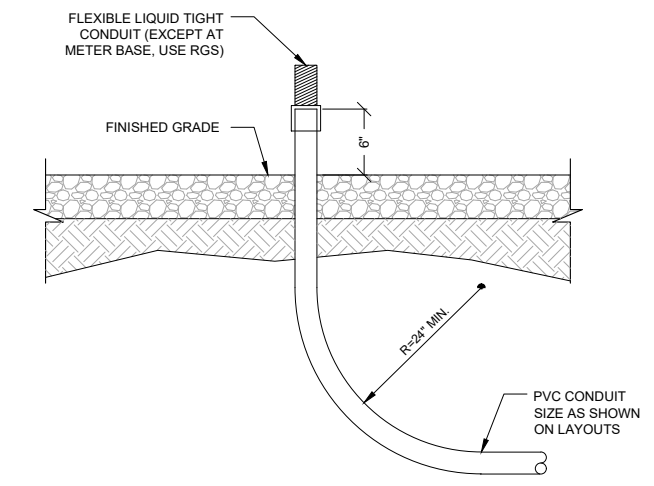
**E2** **0**



11" X 17" SCALE 24" X 36" SCALE  
1" = 120' 1" = 60'

REV. : DATE : DESCRIPTION : BY :

0	04/23/24	100% ZONING	R.C.
0	11/20/23	90% ZONING	R.C.



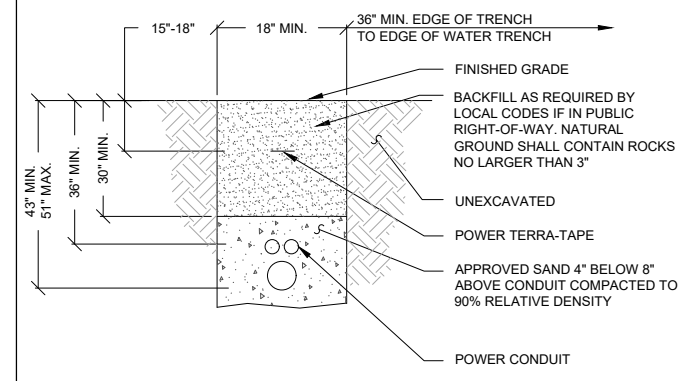
NOT USED SCALE: NONE 11

NOT USED SCALE: NONE 8

NOT USED SCALE: NONE 6

CONDUIT STUB-UP @ GENERATOR SCALE: NONE 3

NOTE: TYPICAL INSTALLATION. UTILITY DESIGN TAKES PRECEDENCE.



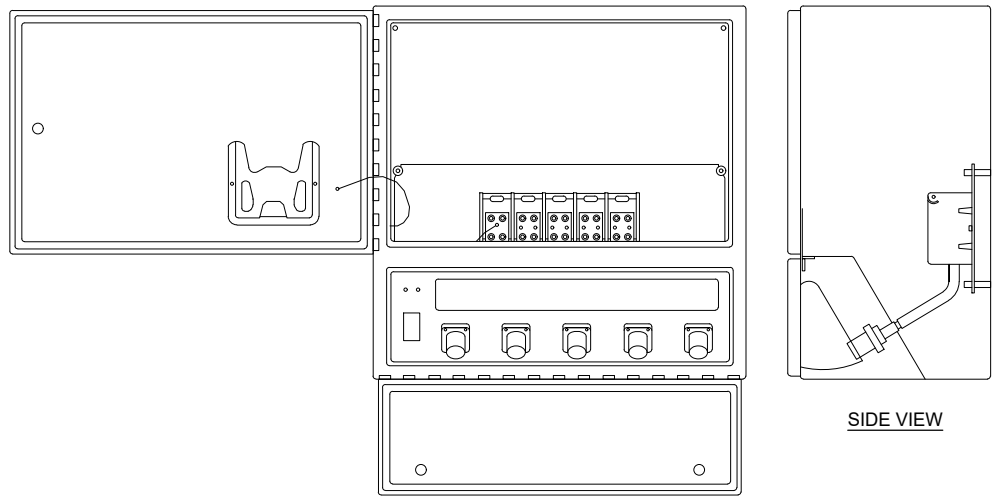
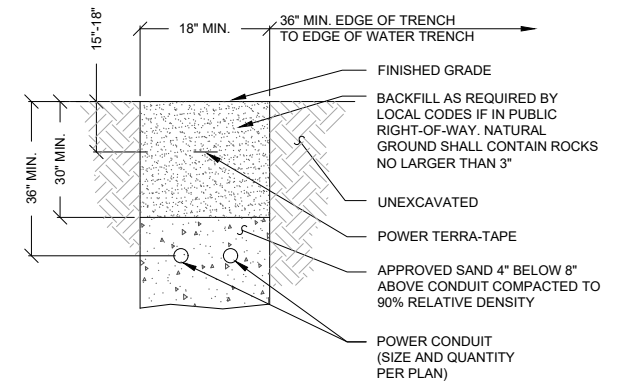
NOT USED SCALE: NONE 10

NOT USED SCALE: NONE 7

NOT USED SCALE: NONE 5

GENERATOR TRENCH SCALE: NONE 2

NOTE: TYPICAL INSTALLATION UTILITY DESIGN TAKES PRECEDENCE.

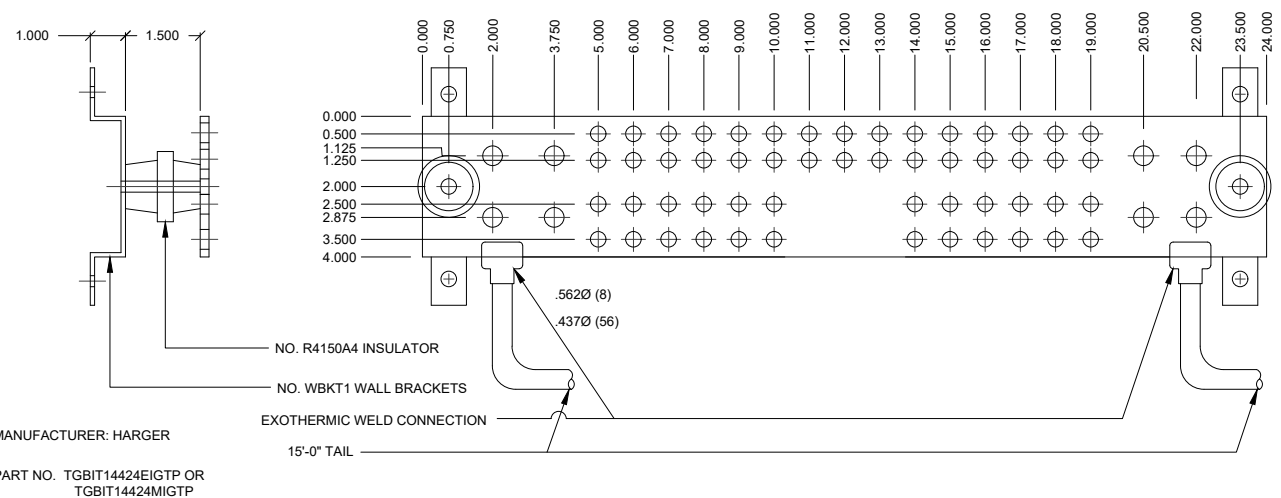


NOT USED SCALE: NONE 9

CAM LOCK BOX SCALE: NONE 4

POWER TRENCH SCALE: NONE 1

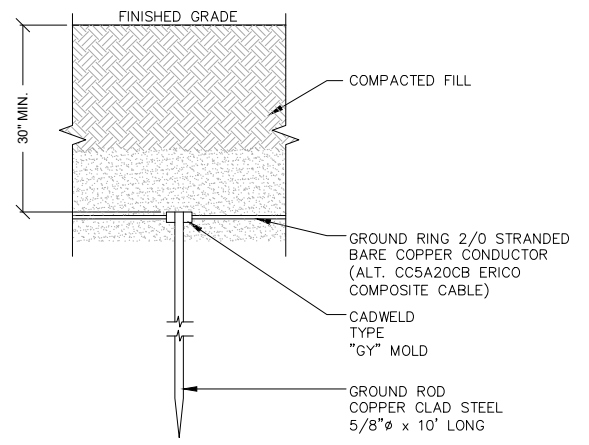




MASTER GROUND BAR AND ANTENNA GROUND BAR

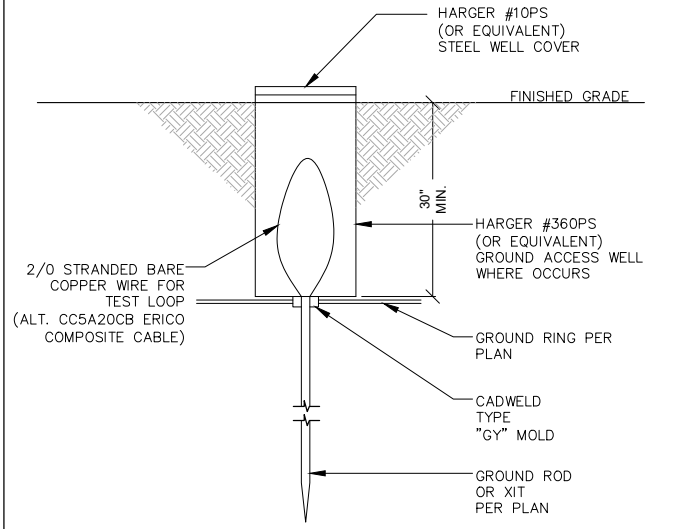
SCALE: NONE 4

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS AND VERIZON GROUNDING STANDARD, NSVP OS-100-001
- ALL GROUNDING CONDUCTORS: 2/0 STRANDED BARE COPPER WIRE UNLESS OTHERWISE NOTED. (ALT. CC5A20CB ERICO COMPOSITE CABLE)
- GROUND RING TO GROUND BAR CONNECTIONS SHALL BE CADWELDED QTY. (2) 2/0 STRANDED BARE COPPER WIRE UNLESS OTHERWISE NOTED. (ALT. CC5A20CB ERICO COMPOSITE CABLE)
- GROUND BAR TO EQUIPMENT AND CABLES SHALL BE 2/0 STRANDED BARE COPPER WIRE W/ DOUBLE LUG CONNECTIONS. (ALT. CC5A20CB ERICO COMPOSITE CABLE)
- GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- GROUND BAR LOCATED BELOW WAVEGUIDE ENTRY PORT. CABLES SHALL BE 2/0 STRANDED BARE COPPER WIRE W/ DOUBLE LUG CONNECTIONS. TWO PATHS TO GROUND RING. (ALT. CC5A20CB ERICO COMPOSITE CABLE)
- ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
- EXTERIOR GROUNDING CONDUCTORS: BURIED TO A MINIMUM DEPTH OF 3'-0" BELOW FINISHED GRADE TO ALLOW FOR FUTURE CONSTRUCTION.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- GROUND BARS:
  - EQUIPMENT GROUND BUSS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR AND BE INTERNAL TO POLE.
  - MAIN GROUND BUSS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- ALL BOLTED TORQUE CONNECTORS SHALL BE LONG-BARRELLLED TYPES AND HAVE TWO HOLES FOR CONNECTION TO SURFACE AND NON-OXIDIZING AGENT APPLIED TO INHIBIT CORROSION.



GROUND ROD

SCALE: NONE 3



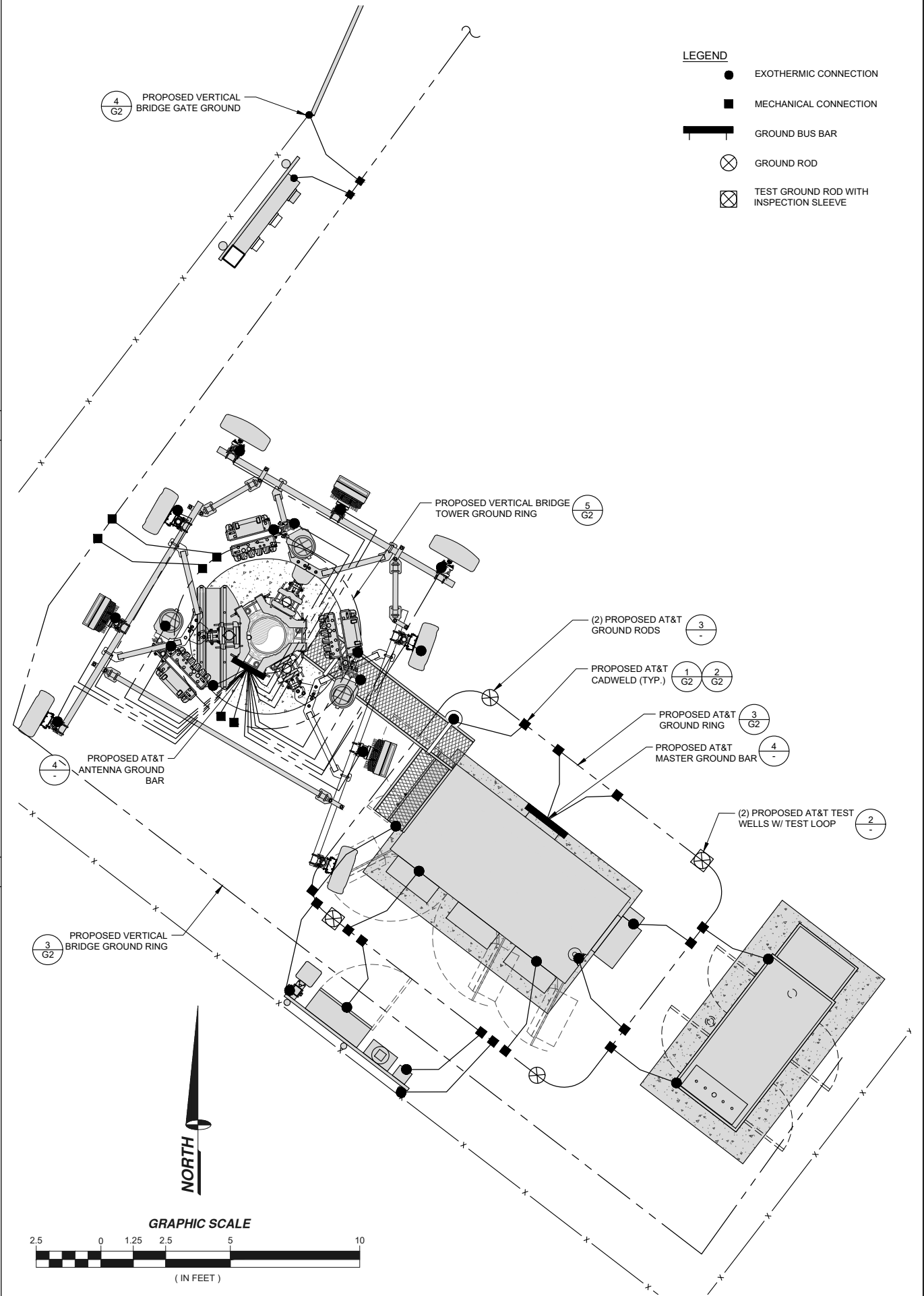
GROUNDING NOTES

SCALE: NONE 5

TEST WELL

SCALE: NONE 2

GROUNDING LAYOUT



**LEGEND**

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- GROUND BUS BAR
- ⊗ GROUND ROD
- ⊠ TEST GROUND ROD WITH INSPECTION SLEEVE

**verticalbridge**

750 PARK OF COMMERCE DRIVE  
BOCA RATON, FLORIDA 33487

**at&t**

5001 EXECUTIVE PARKWAY  
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PLANS PREPARED BY:

**MODUS**

MODUS, LLC  
240 STOCKTON STREET, 3RD FLR.  
SAN FRANCISCO, CALIFORNIA 94108

LICENSURE:

SHEET TITLE:

GROUNDING LAYOUT,  
NOTES AND DETAILS

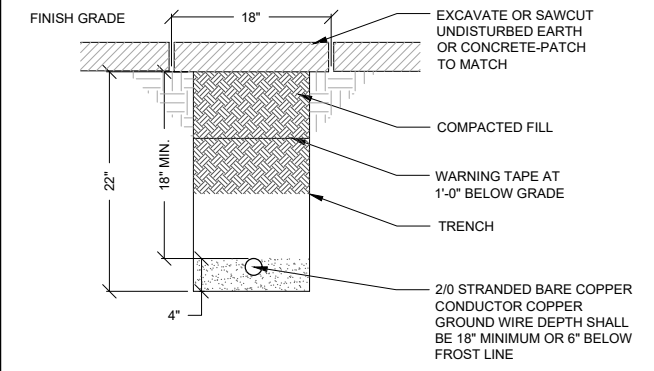
SHEET NUMBER: REVISION:

**G1** 0

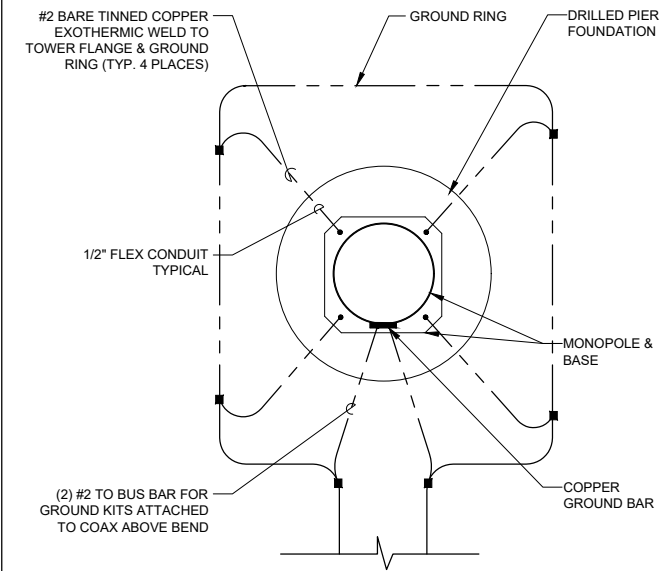
11" X 17" SCALE 24" X 36" SCALE  
1" = 5' 1" = 2'-6"

1

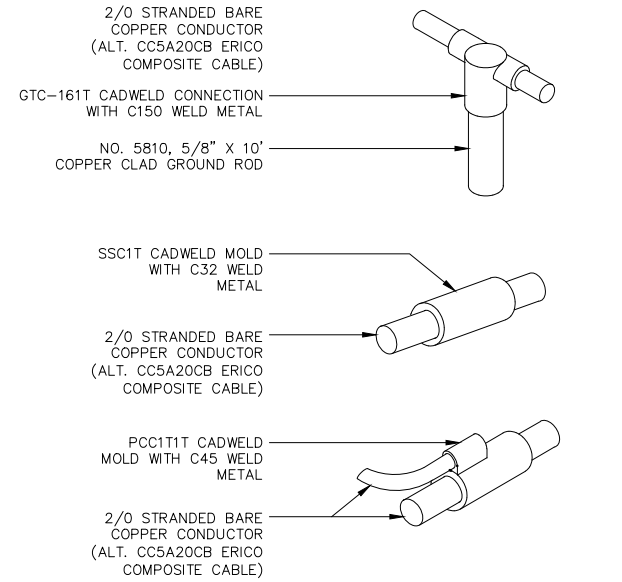
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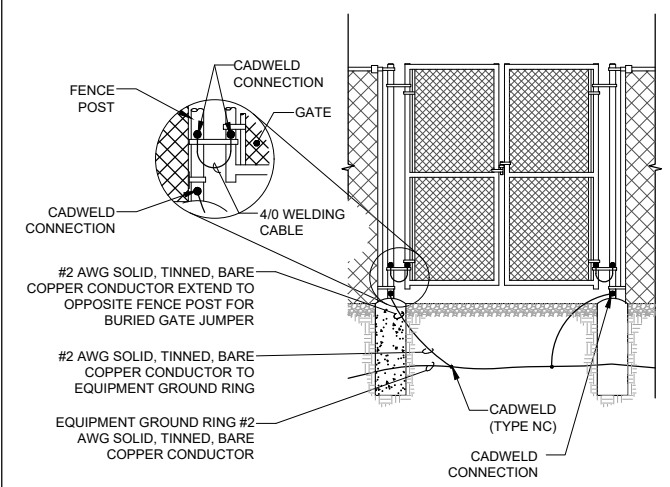
GROUND RING TRENCH SCALE: NONE 3



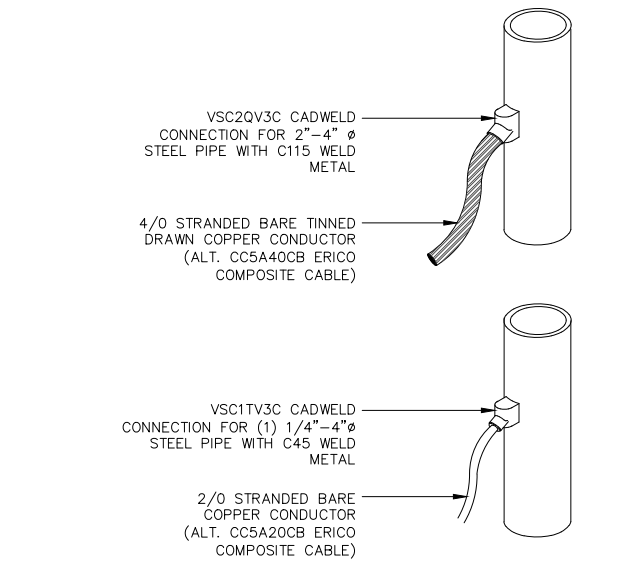
TOWER GROUND RING SCALE: NONE 5



MISC. CADWELD DETAILS SCALE: NONE 2



GATE GROUNDING SCALE: NONE 4



CADWELD DETAIL SCALE: NONE 1

NOT USED SCALE: NONE 12

NOT USED SCALE: NONE 9

NOT USED SCALE: NONE 6

NOT USED SCALE: NONE 11

NOT USED SCALE: NONE 8

NOT USED SCALE: NONE 10

NOT USED SCALE: NONE 7