

T-Mobile®

PALO ALTO WESTIN HOTEL
SF69003S - SPRINT RETAIN

APPROVALS SIGNATURE BLOCK

THE FOLLOWING PARTIES HAVE REFERENCED THESE DRAWINGS:

ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL ZONING / BUILDING DEPARTMENTS, AND MAY IMPOSE CHANGES OR NOTIFICATIONS.

PROJECT MANAGER (PRINT)

PROJECT MANAGER

DATE

APPROVED
 REJECTED

RF ENGINEER (PRINT)

RF ENGINEER

DATE

APPROVED
 REJECTED

SITE ACQUISITION (PRINT)

SITE ACQUISITION

DATE

APPROVED
 REJECTED

TMO QUALITY ASSURANCE (PRINT)

TMO QUALITY ASSURANCE

DATE

APPROVED
 REJECTED

T-Mobile®

Stick Together®

SITE NUMBER: SF69003S - SPRINT RETAIN
SITE NAME: PALO ALTO WESTIN HOTEL
SITE TYPE: ROOFTOP

CITY: PALO ALTO
COUNTY: SANTA CLARA
JURISDICTION: CITY OF PALO ALTO



T-MOBILE WEST LLC
 1855 GATEWAY BLVD, STE 900
 CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214
 CLEVELAND, OH 44122

DRAWN BY: BWG
 CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
0	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

CONSTRUCTION DRAWING

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

PROJECT SUMMARY:

APPLICANT: T-MOBILE WEST LLC
 1855 GATEWAY BLVD, STE 900
 CONCORD, CA 94520

PROPERTY OWNER: PALO ALTO REAL
 675 EL CAMINO REAL
 PALO ALTO, CA 94301

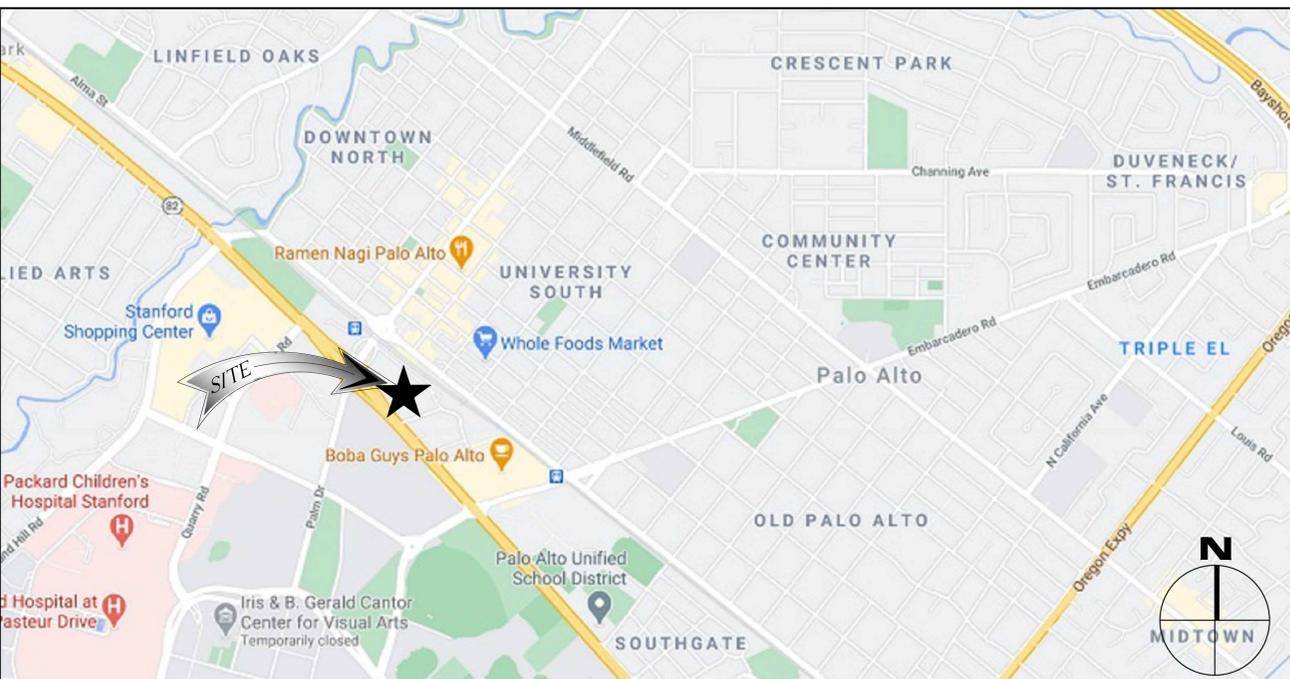
SITE ADDRESS: 675 EL CAMINO REAL
 PALO ALTO, CA 94301

PROJECT DESCRIPTION:
 REMOVE (6) EXISTING SPRINT PANEL ANTENNAS (2 PER SECTOR)
 REMOVE (3) EXISTING RRU 800 (1 PER SECTOR)
 REMOVE (3) EXISTING RRU 1900 (1 PER SECTOR)
 REMOVE (3) EXISTING RRU 2500 (1 PER SECTOR)
 REMOVE (1) EXISTING EQUIPMENT CABINET
 REMOVE (1) EXISTING BATTERY CABINET
 REMOVE (1) EXISTING BATTERY CABINET
 INSTALL (3) NEW RFS APXVAALL18 43-U-NA20(OCTO) PANEL ANTENNAS (1 PER SECTOR)
 INSTALL (3) NEW ERICSSON AIR 6449 (ACTIVE ANTENNA-MASSIVE MIMO) PANEL ANTENNAS (1 PER SECTOR)
 INSTALL (3) NEW RADIO 4480 B71+B85 (1 PER SECTOR)
 INSTALL (3) NEW RADIO 4460 B25+B66 (1 PER SECTOR)
 INSTALL (1) NEW E6160 SITE SUPPORT CABINET
 INSTALL (1) NEW B160 BATTERY CABINET
 INSTALL (1) NEW DUG20 (GSM) INSIDE E6160
 INSTALL (2) NEW BB66438 INSIDE E6160
 INSTALL (2) PSU 4813 VOLTAGE BOOSTERS WITH (1) NEW IXRE ROUTER AND (1) (1) NEW 7705 SAR-M INSIDE E6160
 INSTALL (3) NEW ERICSSON HYBRID TRUNK 6X24 4AWG, 110M CABLES TO FOLLOW EXISTING CABLE ROUTE
 INSTALL (1) NEW CABLE TRAY
 INSTALL NEW FRP SCREEN
 INSTALL (4) NEW ANTENNA PIPE MOUNTS (2 AT BETA AND GAMMA SECTORS)
 RELOCATE (1) EXISTING 200A PPC AND EXISTING TELCO BOARD AND ALL EQUIPMENT

APN: 120-32-033
ZONING: PC 4465
LATITUDE: 37° 26' 26.685" N (37.44074631°)
LONGITUDE: 122° 09' 47.3004" W (-122.16313930°)
GROUND ELEVATION: ± 52' AMSL

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S3	MODIFICATION DRAWINGS



APPROVALS:

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

PRINT NAME	SIGNATURE	DATE
LANDLORD	_____	_____
ZONING REP.	_____	_____
DEVELOP. MGR	_____	_____
CONST. MGR	_____	_____
PROJECT MGR	_____	_____
ZONING MGR.	_____	_____
RF ENGINEER	_____	_____
OPERATIONS	_____	_____
SAC REP.	_____	_____

DIRECTIONS FROM CONCORD T-MOBILE OFFICE:

-GET ON CA-242 S FROM CLAYTON RD
 -HEAD WEST TOWARD CLAYTON RD
 -TURN LEFT TOWARD CLAYTON RD
 -TURN RIGHT ONTO CLAYTON RD
 -USE THE RIGHT 2 LANES TO TAKE THE RAMP ONTO CA-242 S
 -FOLLOW I-680 S TO CA-262 S/MISSION BLVD IN FREMONT. TAKE EXIT 12 FROM I-680 S
 -MERGE ONTO CA-242 S
 -MERGE ONTO I-680 S
 -TAKE EXIT 12 TO MERGE ONTO CA-262 S/MISSION BLVD
 -TAKE I-680 S, CA-237 W AND US-101 N TO EMBARCADERO RD IN PALO ALTO. TAKE EXIT 402 FROM US-101 N
 -MERGE ONTO CA-262 S/MISSION BLVD
 -PASS BY JACK IN THE BOX (ON THE RIGHT)
 -USE THE LEFT 2 LANES TO MERGE ONTO I-680 S TOWARD SAN JOSE
 -USE THE RIGHT 2 LANES TO STAY ON I-680 S
 -USE THE RIGHT 2 LANES TO TAKE EXIT 8C TOWARD CA-237 W
 -CONTINUE ONTO CA-237 W
 -TAKE EXIT 3A TO MERGE ONTO US-101 N TOWARD SAN FRANCISCO
 -TAKE EXIT 402 FOR EMBARCADERO RD

-KEEP LEFT, FOLLOW SIGNS FOR EMBARCADERO RD W AND MERGE ONTO EMBARCADERO RD
 -CONTINUE ON EMBARCADERO RD TO YOUR DESTINATION
 -MERGE ONTO EMBARCADERO RD
 -TURN RIGHT ONTO EL CAMINO REAL
 -TURN RIGHT
 -SLIGHT RIGHT

DESTINATION WILL BE ON THE RIGHT

675 CA-82
 PALO ALTO, CA 94301

- #### APPLICABLE CODES
- 2019 CALIFORNIA ADMINISTRATIVE CODE.
 - 2019 CALIFORNIA BUILDING CODE (CBC).
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC).
 - 2019 CALIFORNIA ENERGY CODE.
 - 2019 CALIFORNIA MECHANICAL CODE (CMC).
 - 2019 CALIFORNIA PLUMBING CODE (CPC).
 - ANSI/TIA-222-G LIFE SAFETY CODE NFPA-101
 - LOCAL BUILDING CODE.
 - 2019 CALIFORNIA FIRE CODE (CFC)
 - 2019 CALIFORNIA GREEN BUILDING CODE
- ANSI/TIA-222-G OR LATEST EDITION CURRENT LOCAL CODES AND AMENDMENTS IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

DIAL TOLL FREE
811
 AT LEAST TWO WORKING
 DAYS BEFORE YOU DIG

USA NORTH UNDERGROUND SERVICE ALERT SERVING CALIFORNIA AND NEVADA

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

CONSULTING TEAM:

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T-MOBILE RF ENGINEER: T-MOBILE WEST LLC
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 CONTACT: TBD
 PHONE: TBD
 EMAIL: TBD

T-MOBILE CONSTRUCTION MANAGER: T-MOBILE WEST LLC
 1855 GATEWAY BLVD, STE 900
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 CONTACT: TBD
 PHONE: TBD
 EMAIL: TBD

PALO ALTO WESTIN
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IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

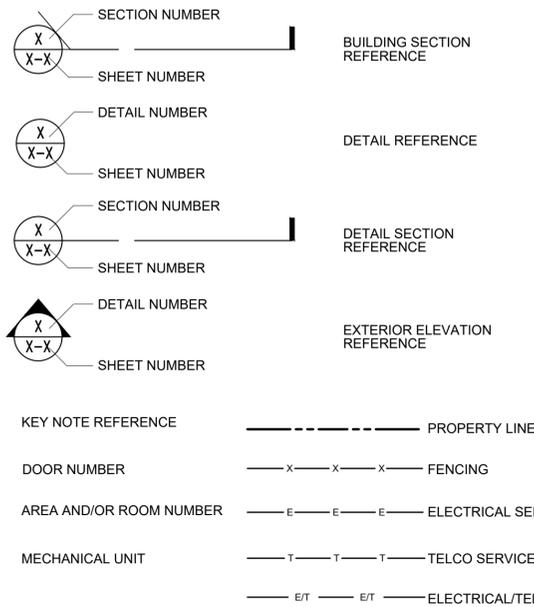
SHEET TITLE
 TITLE SHEET

SHEET NUMBER
T-1

ABBREVIATIONS

AB	ANCHOR BOLT	JT	JOINT
AC	ASPHALTIC CONCRETE		
A/C	AIR CONDITIONING	LAM	LAMINATED
ADJ	ADJUSTABLE	LBS	POUNDS
A.F.F.	ABOVE FINISH FLOOR	LT	LIGHT
ARCH	ARCHITECTURAL	LA	LIGHTNING ARRESTOR
APPROX	APPROXIMATELY	LNA	LOW NOISE AMPLIFIER
A.G.L.	ABOVE GRADE LEVEL		
A.M.S.L.	ABOVE MEAN SEA LEVEL	MFR	MANUFACTURER
		MAT	MATERIAL
BD	BOARD	MAX	MAXIMUM
BLDG	BUILDING	MECH	MECHANICAL
BLKG	BLOCKING	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BSMT	BASEMENT	ML	METAL LATH
BTS	BASE TRANSCIVER STATION	MO	MASONRY OPENING
		MS	MACHINE SCREW
		MTD	MOUNTED
		MTL	METAL
C	COURSE(S)		
CEM	CEMENT	(N)	PROPOSED
CL	CHAIN LINK	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NUMBER
CLR	CLEAR	NTS	NOT TO SCALE
COL	COLUMN		
CONC	CONCRETE		
CONST	CONSTRUCTION	OA	OVERALL
CONT	CONTINUOUS	O.C.	ON CENTER
CORR	CORRIDOR	OPNG	OPENING
CO	CONDUIT ONLY	OPP	OPPOSITE
		PARTN	PARTITION
DIA	DIAMETER	PL	PLATE
DBL	DOUBLE	PLAS	PLASTER
DEPT	DEPARTMENT	PLYWD	PLYWOOD
DEMO	DEMOLITION	PC	POINT OF CONNECTION
DN	DIMENSION	PROP	PROPERTY
DM	DOWN	PT	PRESSURE TREATED
DR	DOOR		
DTL	DETAIL	R	RISER
DWG	DRAWING	REQD	REQUIRED
		RD	ROOF DRAIN
(E)	EXISTING	RM	ROOM
EA	EACH	RMS	ROOMS
ELEC	ELECTRIC	RO	ROUGH OPENING
ELEV	ELEVATION		
EQUIP	EQUIPMENT	SC	SOLID CORE
EXP	EXPANSION	SCHED	SCHEDULE
EXT	EXTERIOR	SECT	SECTION
		SHT	SHEET
FA	FIRE ALARM	SIM	SIMILAR
FB	FLAT BAR	SPECS	SPECIFICATIONS
FF	FINISH FLOOR	SS	STAINLESS STEEL
FH	FLAT HEAD	STL	STEEL
FIN	FINISH(ED)	STOR	STORAGE
FLR	FLOOR	STRUCT	STRUCTURAL
FOS	FACE OF STUDS	SUSP	SUSPENDED
FS	FINISH SURFACE	SW	SWITCH
FT	FOOT, FEET	SWBO	SWITCHBOARD
FTG	FOOTING		
FW	FINISH WALL	THK	THICK
F.G.	FINISH GRADE	TI	TENANT IMPROVEMENT
FUT	FUTURE	TMA	TOWER MOUNTED AMPLIFIER
		TOS	TOP OF SURFACE
GA	GAUGE	TS	TUBE STEEL
GALV	GALVANIZED	TYP	TYPICAL
GL	GLASS		
GR	GRADE	UNO	UNLESS NOTED OTHERWISE
GYP	GYPSUM		
GFCI	GROUND FAULT CIRCUIT INTERRUPT	VCT	VINYL COMPOSITION TILE
		VERT	VERTICAL
GND	GROUND	V.I.F.	VERIFY IN FIELD
		VG	VERTICAL GRAIN
HC	HOLLOW CORE		
HDW	HARDWARE	W/	WITH
HTR	HEATER	WD	WOOD
HM	HOLLOW METAL	WR	WATER RESISTANT
HORIZ	HORIZONTAL	WT	WEIGHT
HR	HOUR		
HSS	HOLLOW STRUCTURAL SECTION	XFMR	TRANSFORMER
HT	HEIGHT		
HV	HIGH VOLTAGE	@	AT
		┌	CHANNEL
ID	INSIDE DIMENSION	└	CENTERLINE
INS	INSULATION	∠	ANGLE
INT	INTERIOR	℞	PROPERTY LINE

SYMBOLS:



GENERAL

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE BUILDING CODE AND ALL OTHER GOVERNING CODES. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
- PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, UTILITIES SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDUMS, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT/ENGINEER AT THE CONCLUSION OF THE PROJECT.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON, NOR PROVIDE DIRECTION, AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT. FURTHERMORE, THE STRUCTURE IS DESIGNED AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT(S).
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF LOAD IMPOSED ON THE STRUCTURAL FRAMING AND STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT. THE CONTRACTOR SHALL ALSO RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

- ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY FRAMING, BACKING, HANGERS, BLOCKING OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- PROPOSED CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.

- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- ALL DEBRIS AND REFUGE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATIONS.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE PROPOSED PORTION OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

GENERAL (CONTINUED)

- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING (SHEET 151), SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
- NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID. THIS INCLUDES THAT THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY DEVIATION FROM THE PLANS BY THE PROFESSIONAL'S OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION IN WRITING AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- ANY REFERENCE TO THE WORDS "APPROVED" OR "APPROVAL" IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.
- STAIR TREADS SHALL BE MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2-INCHES WIDE AND PLACED PARALLEL TO AND NOT MORE THAN 1 INCH FROM THE NOSE OF THE STEP. ALL TREAD SURFACES SHALL BE SLIP RESISTANCE. NOSING SHALL NOT PROJECT MORE THAN 1-1/2 INCHES PAST THE FACE OF THE RISER BELOW.

SITE PREPARATION NOTES:

- THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE, TREE TRUNKS AND ANY OTHER DEBRIS THAT WOULD BE DAMAGING TO THE FOOTINGS OF THE PROPOSED STRUCTURE.
- ALL FOUNDATION FOOTINGS SHALL EXTEND INTO AND BEAR AGAINST NATURAL UNDISTURBED SOIL OR APPROVED COMPACTED FILL. FOOTINGS SHALL EXTEND INTO SOIL DEPTH INDICATED ON DETAILS.
- SHOULD ANY LOOSE FILL, EXPANSIVE SOIL, GROUND WATER OR ANY OTHER DANGEROUS CONDITIONS BE ENCOUNTERED DURING THE EXCAVATION FOR THE PROPOSED FOUNDATION, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED AND ALL FOUNDATION WORK SHALL CEASE IMMEDIATELY.
- THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
- PROOFROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK. REMOVE ALL SOILS WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
- FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8" LOOSE LIFTS AND THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-698. COMPACT TO A MINIMUM OF 90% RELATIVE COMPACTION. ADEQUATE DRAINAGE SHALL BE PROVIDED SUCH THAT NO PONDING OCCURS AFTER THESE RECOMMENDATIONS ARE APPROVED BY THE ARCHITECT/ENGINEER.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO PROPOSED OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.

SUBMITTALS

SUBMITTALS: SUBMITTALS FOR SHOP DRAWINGS, MILL TESTS, PRODUCT DATA, ETC. FOR ITEMS DESIGNED BY THE ARCHITECT/ENGINEER OF RECORD SHALL BE MADE TO THE ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW THE SUBMITTAL BEFORE FORWARDING TO THE ARCHITECT. SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A TWO-WEEK REVIEW PERIOD FOR THE ARCHITECT/ENGINEER. SUBMITTALS REQUIRED FOR EACH SECTION OF THESE NOTES ARE SPECIFIED IN THAT SECTION.

SHOP DRAWING REVIEW

REVIEW BY THE ARCHITECT/ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THEREFROM. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATION PROCESSES, ETC. WHEN SHOP DRAWINGS DIFFER FROM OR ADD TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND STAMPED BY A SPECIALTY STRUCTURAL ENGINEER (SSE)

FIRE DEPARTMENT NOTES

- SCHEDULE REQUIRED FINAL FIRE DEPARTMENT INSPECTION 2 DAYS IN ADVANCE.
- A UNIFORM FIRE CODE PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES MAY BE REQUIRED AND ISSUED BY FIRE INSPECTOR.
- AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM (IF APPLICABLE)
- LOCATIONS AND CLASSIFICATIONS OF FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO THE APPROVAL OF THE FIRE INSPECTOR.
- CONTRACTOR SHALL POST PERMANENT SIGNAGE IN A CONSPICUOUS LOCATION AT THE SITE IDENTIFYING WHOM SHOULD BE CALLED IN AN EMERGENCY WITH PHONE NUMBERS AND SITE-IDENTIFYING INFORMATION (SUCH AS ADDRESS, SITE #, ETC.) FOR FIRE DEPARTMENT EMERGENCY USE.
- A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS WITH THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING: "BATTERY CABINET, LEAD ACID BATTERIES INSIDE"
- PROVIDE 2A-40BC FIRE EXTINGUISHER, OR OTHER EQUIVALENT, IN RECESSED OR SEMI-RECESSED CABINET MOUNTED AT 48" AFF MAXIMUM TO TOP OF CABINET. IF CONSTRUCTION MATERIALS ARE NOT AMENABLE TO RECESSING THE CABINET, SURFACE MOUNTED CABINETS MAY BE APPROVED. CABINETS SHALL HAVE AN OPENABLE DOOR THAT DOES NOT REQUIRE BREAKAGE OF GLASS. EXTINGUISHERS SHALL BE HUNG ON THEIR HOOKS IN THE CABINETS.

FLASHING AND SHEET METAL

- ALL FLASHING, COUNTER FLASHING, COPING AND ALL OTHER SHEET METAL SHALL BE OF NOT LESS THAN NO. 20 U.S. GAUGE CORROSION-RESISTANT METAL U.N.O. ALL METAL MUST BE GALVANIZED AFTER FABRICATION.
- FLASH AND COUNTER FLASH AT ALL ROOF TO WALL CONDITIONS. G.I. FLASH AND CAULK WOOD BEAMS AND OUTLOOKERS PROJECTING THROUGH EXTERIOR WALLS OR ROOF SURFACES.
- FLASH ALL EXTERIOR OPENINGS WITH APPROVED WATERPROOFING, WHICH CONFORMS TO THE STANDARDS OF LOCAL AND STATE CODES.
- ALL CONNECTIONS TO BUILDING WALLS OR ROOFS MUST BE FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ARCHITECT/ENGINEER, IF NECESSARY, BEFORE PROCEEDING. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.

PAINTING

- THE CONTRACTOR SHALL PREPARE SURFACES, FURNISH ALL PAINT, MATERIAL, LABOR AND EQUIPMENT FOR THE PAINTING OF ALL SURFACES AS REQUIRED.
- ALL PAINTS TO BE APPLIED IN WORKMANLIKE MANNER. AT COMPLETION, REMOVE ALL MATERIALS AND DEBRIS CAUSED BY THIS CONTRACTOR. ALL FLOORS, GLASS, HARDWARE, FRAMES, FIXTURES, ETC SHALL BE THOROUGHLY CLEANED OF PAINT.
- ALL STEEL COLUMNS AND MISC. METALS SHALL BE PRIMED AND PAINTED.
- FIRE PREVENTION: TAKE EVERY PRECAUTION AT THE END OF THE DAY TO REMOVE OILY RAGS AND COMBUSTIBLE MATERIALS FROM THE SITE OR STORE IN METAL CONTAINER WITH TIGHT COVERS.
- FINAL TEXTURE & COLOR PER OWNER'S INSTRUCTIONS.
- SHOP PAINTING: CONFORM TO AISC SPECIFICATION SEC M2 AND AISC CODE SEC. 6.5. DO NOT PRIME SURFACES TO BE FIREPROOFED, IN CONTACT WITH CONCRETE, OR FIELD WELDED. STEEL WORK TO BE CONCEALED BY INTERIOR BUILDING FINISHES OR IN CONTACT WITH CONCRETE DOES NOT REQUIRE PAINTING. ALL OTHER STEEL WORK SHALL BE GIVEN ONE COAT OF SHOP PAINT.
- ALL VISIBLE ANTENNAS, ANTENNA SUPPORT STRUCTURES, CABLE TRAYS, EQUIPMENT MUST BE PAINTED TO BLEND WITH SURROUNDING ELEMENTS - U.N.O

THERMAL & MOISTURE PROTECTION INSULATION

- COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE ENERGY REGULATIONS.
- PROVIDE R-13 MINIMUM KRAFT-FACED BATT. INSULATION AT WALLS UNLESS NOTED OTHERWISE, AND R-19 MINIMUM AT CEILINGS TO COMPLETELY ENCLOSE EQUIPMENT ROOM. PLACE VAPOR BARRIERS ON WARM SIDE OF WALL.
- INSULATE WALLS BETWEEN EQUIPMENT ROOM AND ADJACENT ROOMS. INSULATE BETWEEN JAMBS AND FRAMING, BEHIND HEADER JOISTS AND IN SOFFITS OVER EXTERIOR SPACE.
- PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ARCHITECT/ENGINEER, IF NECESSARY, BEFORE PROCEEDING. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.

ACCESSIBILITY NOTE

THE TELECOMMUNICATIONS EQUIPMENT SPACE SHOWN ON THESE PLANS IS NOT CUSTOMARILY OCCUPIED. WORK TO BE PERFORMED IN THIS FACILITY CANNOT REASONABLY BE PERFORMED BY PERSONS WITH A SEVERE IMPAIRMENT: MOBILITY, SIGHT, AND/OR HEARING. THEREFORE, PER 2016 CALIFORNIA BUILDING CODE SECTION 11B-203.5, EXCEPTION 1, THIS FACILITY SHALL BE EXEMPTED FROM ALL TITLE 24 ACCESS REQUIREMENTS.

BATTERY INFORMATION										
INSTALL STATUS	BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED (E)	VOLTAGE (V)	AMP-HOURS (AH)	KWh, Kilowatt-hours = (V*AH)/1000	TOTAL BATTERY CAPACITY, KWh	STATIONARY BATTERY STORAGE SYSTEM THRESHOLD QUANTITY, PER CFC SECTION 1206 (Kwh)	STATIONARY BATTERY STORAGE SYSTEM CODE CHECK	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE BY VOLUME (GALLONS) =
EXISTING TO BE REMOVED	N/A	N/A	N/A	N/A	N/A	N/A			N/A	N/A
EXISTING TO REMAIN	N/A	N/A	N/A	N/A	N/A	N/A			N/A	N/A
PROPOSED	NORTHSTAR - NSB 190FT HT RED	12	12	190	2.28	27.36			2.03	24.36
TOTAL		12				27.36	70	CFC SECTION 1206 DOES NOT APPLY		24.36



DRAWN BY: BWG
CHECKED BY: ZN

REVISIONS			
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F	10/26/21	RELOCATED EQUIPMENT	RGL
1	11/22/21	100% CDS	RGL
0	01/17/22	NEW ELEVATION	JAF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

PALO ALTO WESTIN HOTEL
SF69003S
 675 EL CAMINO REAL
 PALO ALTO, CA 94301

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SHEET TITLE
GENERAL NOTES AND SPECIFICATIONS

SHEET NUMBER
T-2

DRAWN BY: BWG
 CHECKED BY: ZN

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A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
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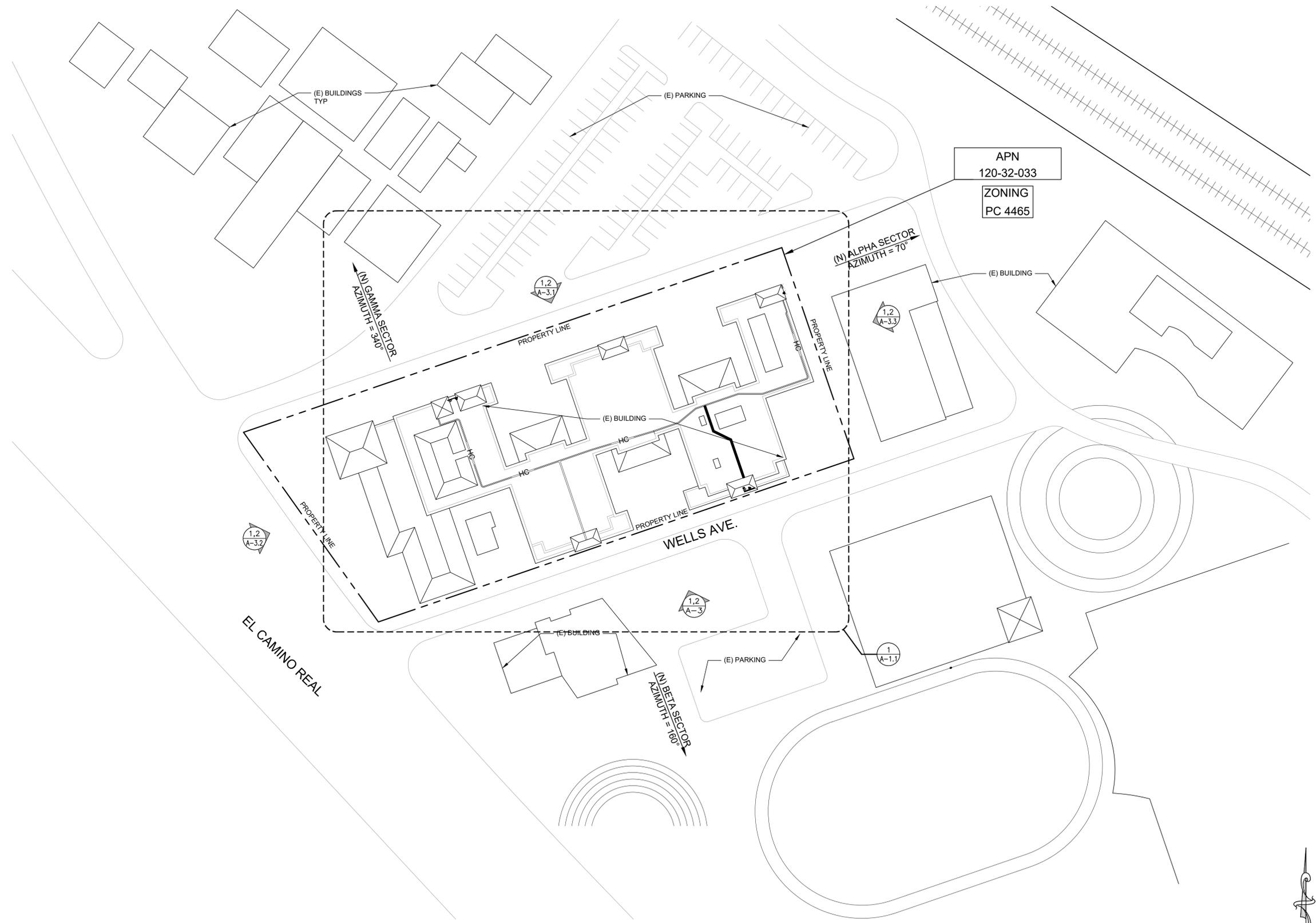
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 HOTEL
 SF69003S**
 675 EL CAMINO REAL
 PALO ALTO, CA 94301

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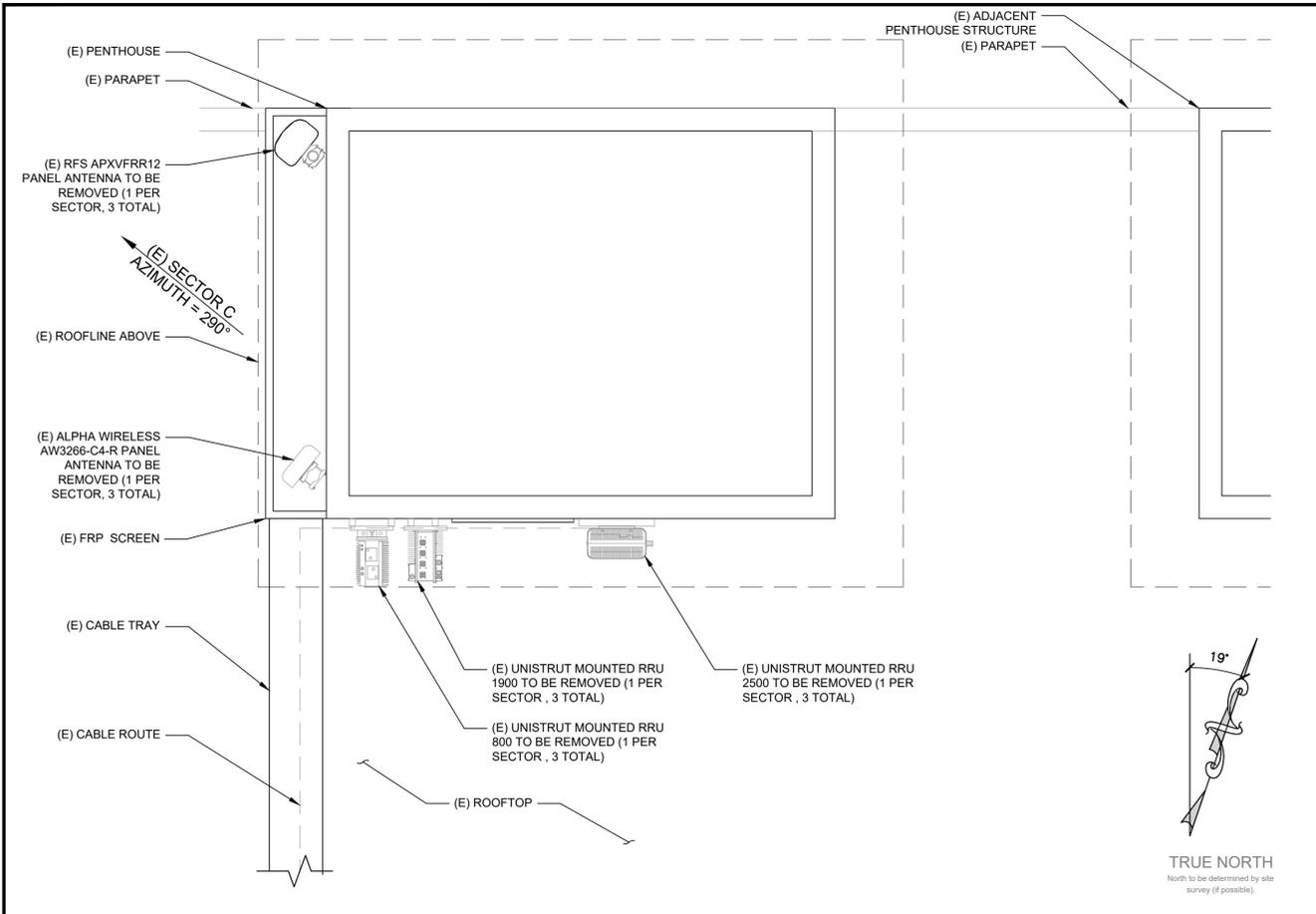
SHEET TITLE
 OVERALL SITE PLAN

SHEET NUMBER
A-1

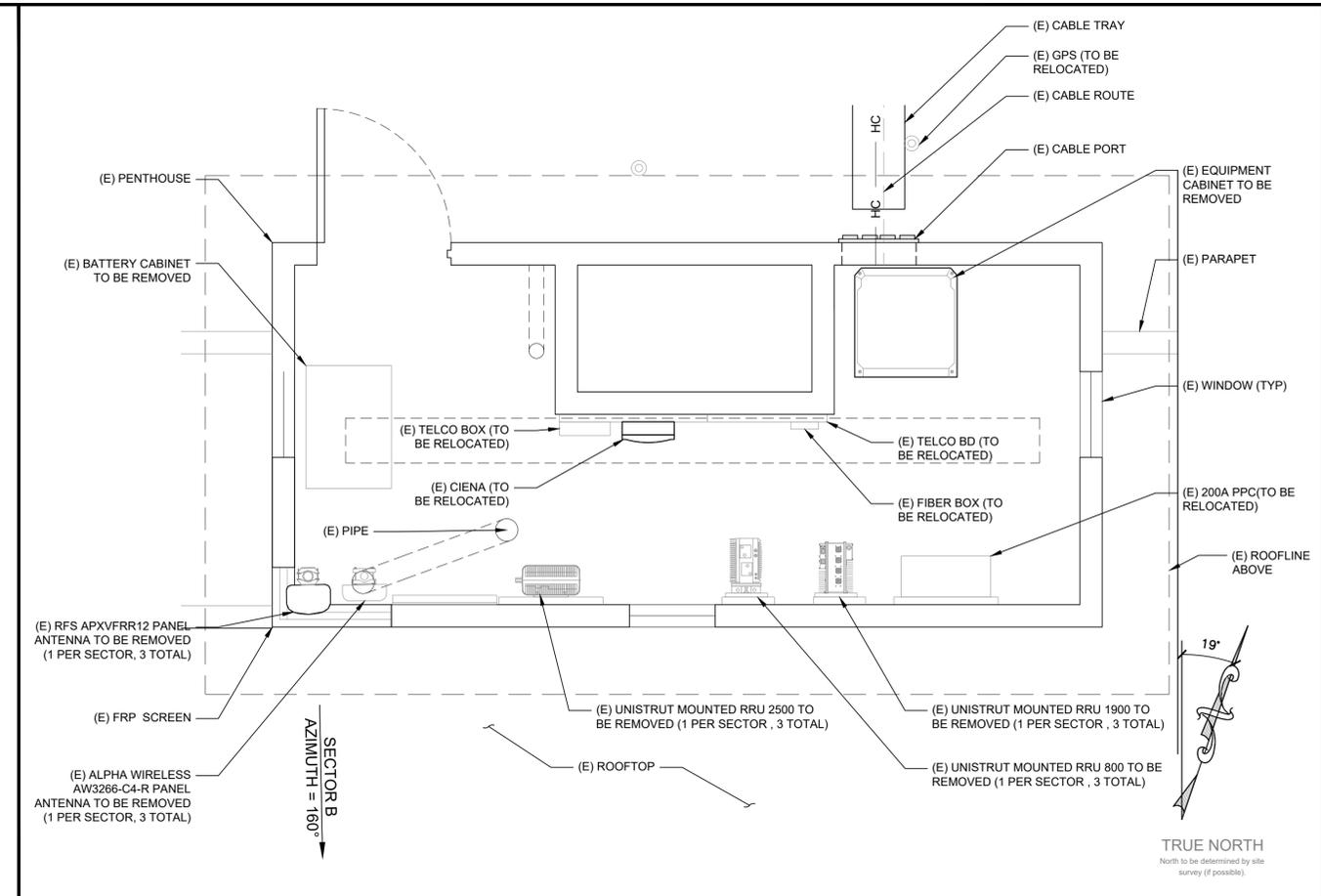


22"x34" SCALE: 1" = 40'-0"
 11"x17" SCALE: 1" = 80'-0"
 40' 20' 0' 40'

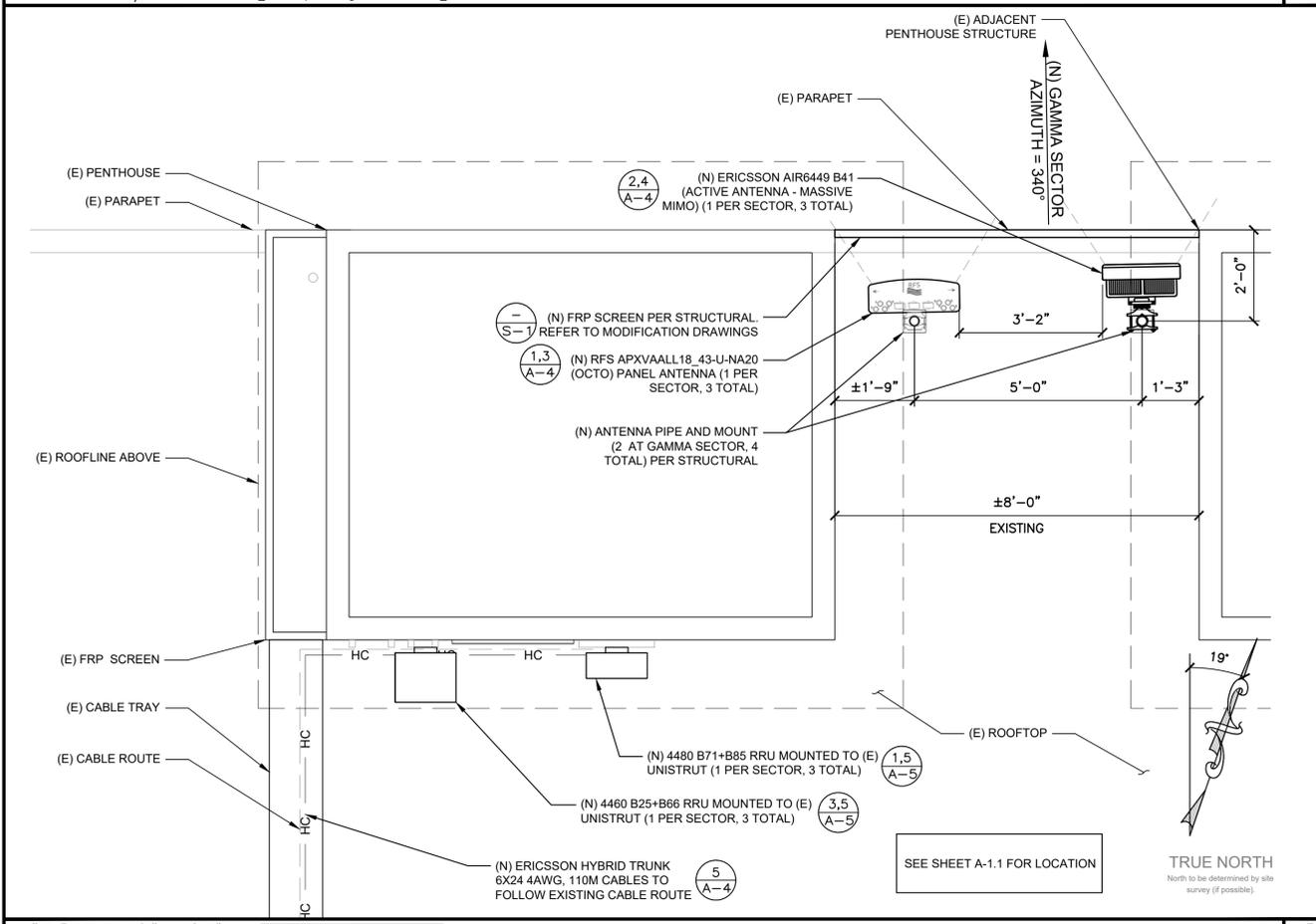
TRUE NORTH
 North to be determined by site survey (if possible)
OVERALL SITE PLAN 1



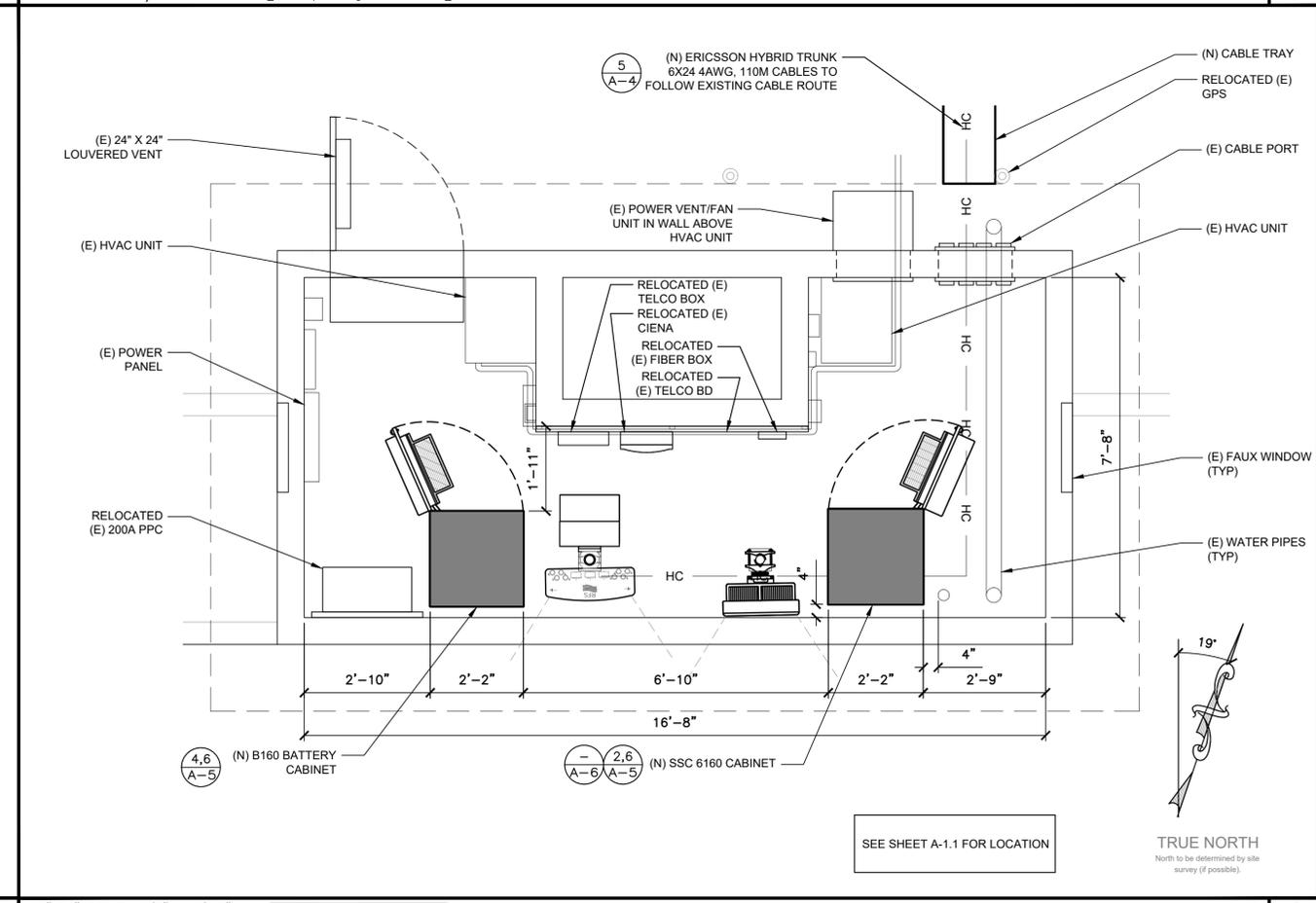
EXISTING GAMMA ANTENNA LAYOUT PLAN 4



EXISTING BETA SECTOR AND EQUIPMENT LAYOUT PLAN 2



NEW GAMMA ANTENNA LAYOUT PLAN 3



NEW EQUIPMENT LAYOUT PLAN 1

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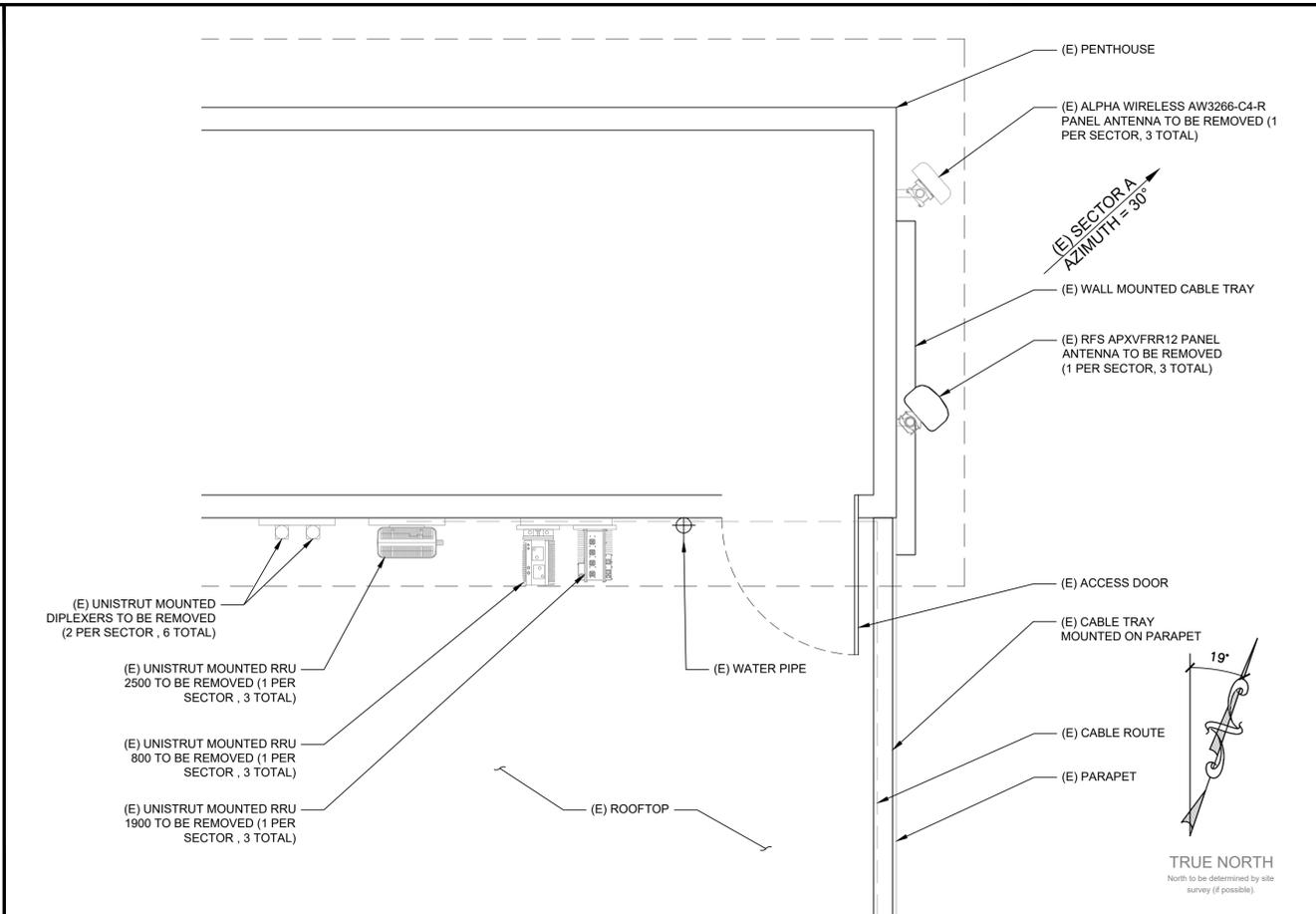
SHEET TITLE
ANTENNA AND EQUIPMENT LAYOUT PLANS

SHEET NUMBER
A-2

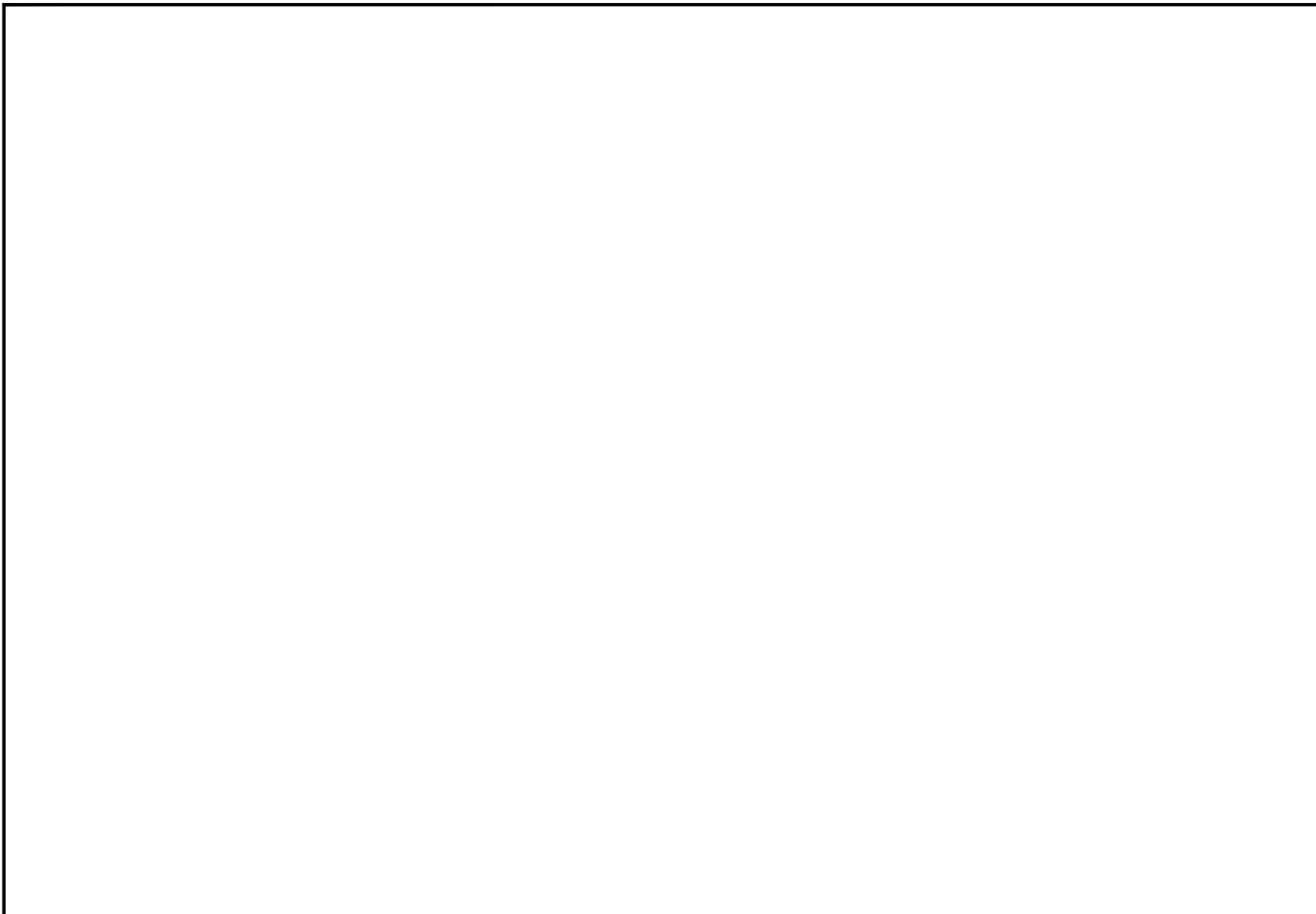
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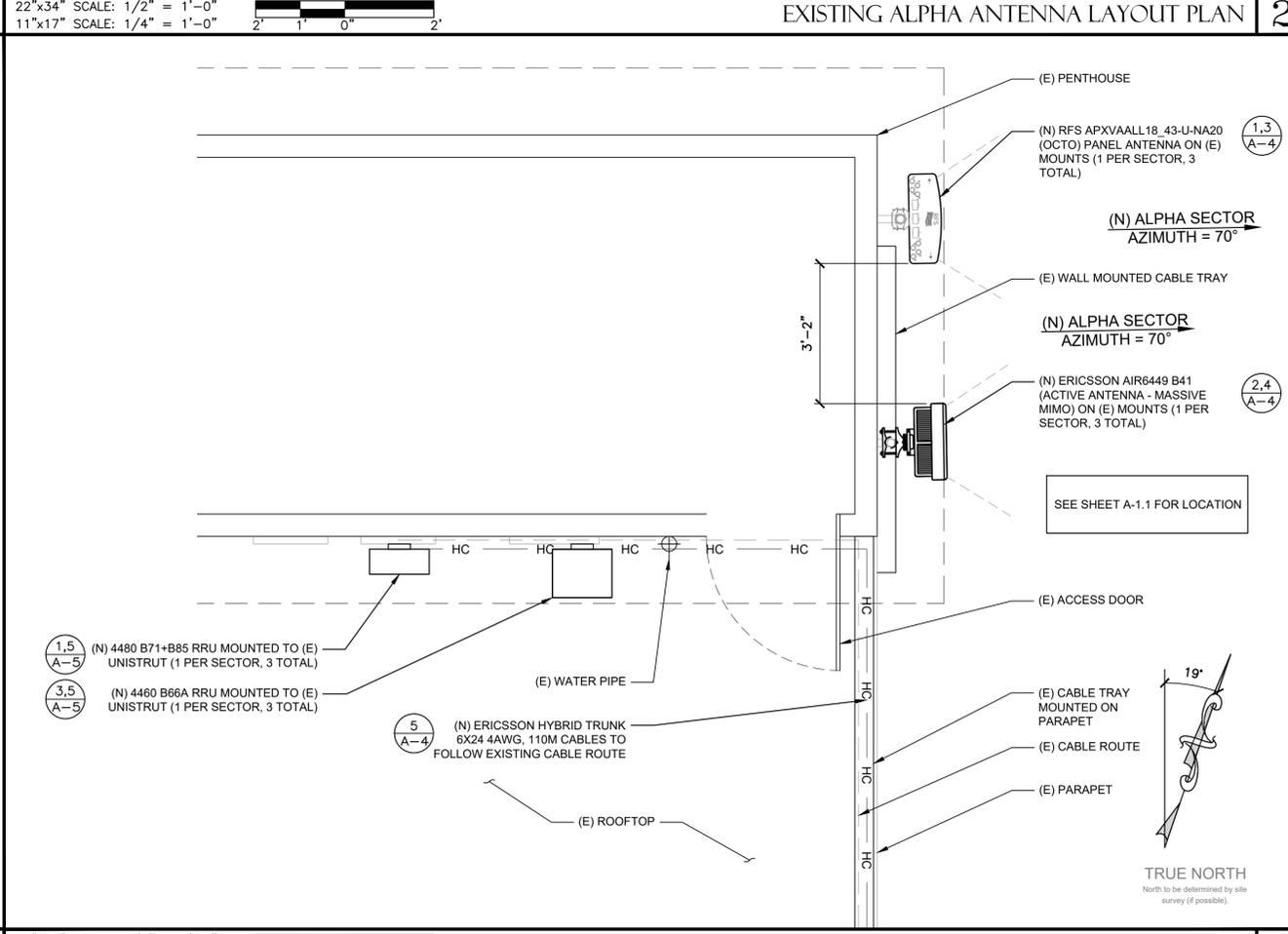
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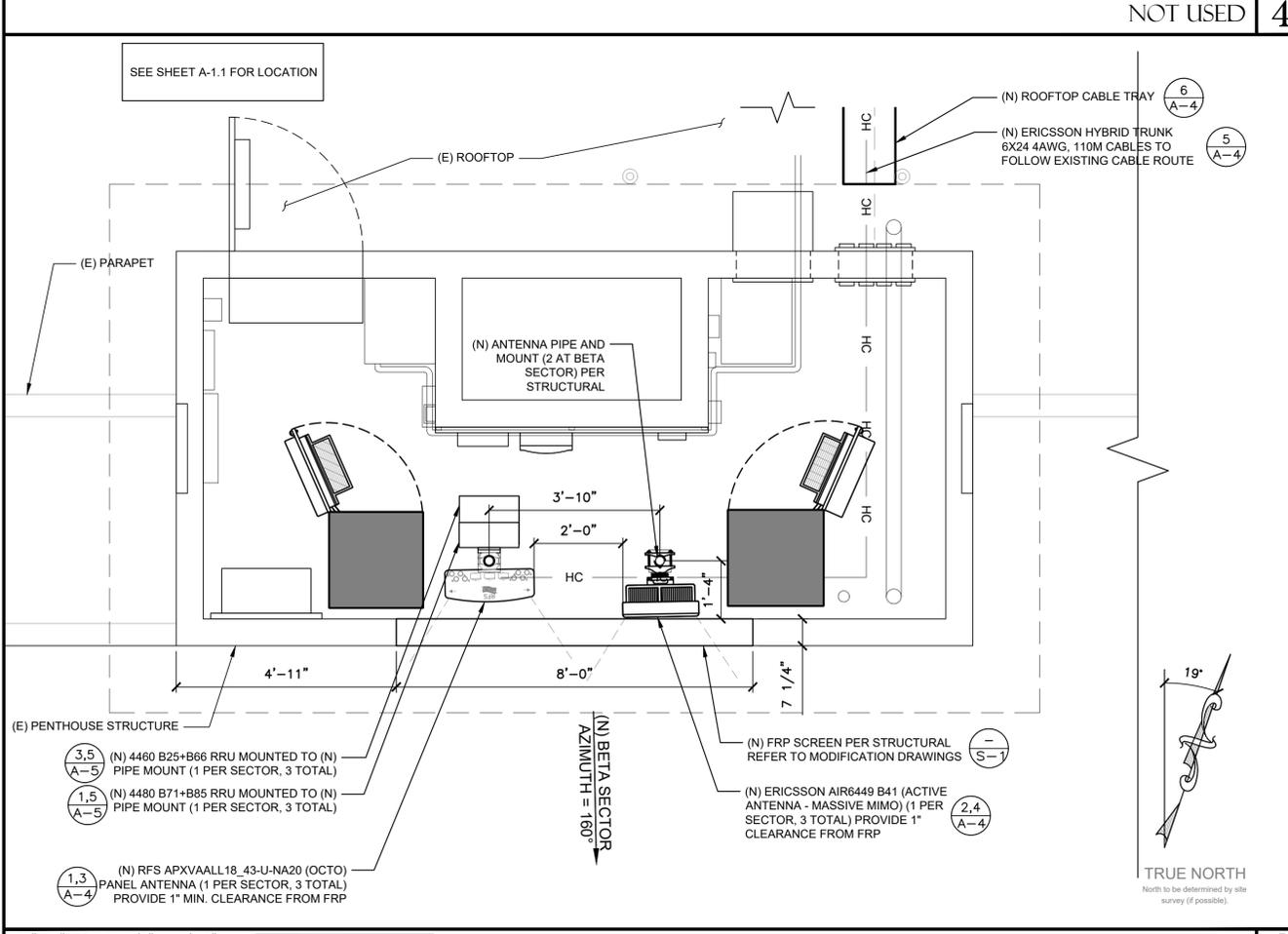
EXISTING ALPHA ANTENNA LAYOUT PLAN 2



NOT USED 4



NEW ALPHA ANTENNA LAYOUT PLAN 1



NEW BETA ANTENNA LAYOUT PLAN 3

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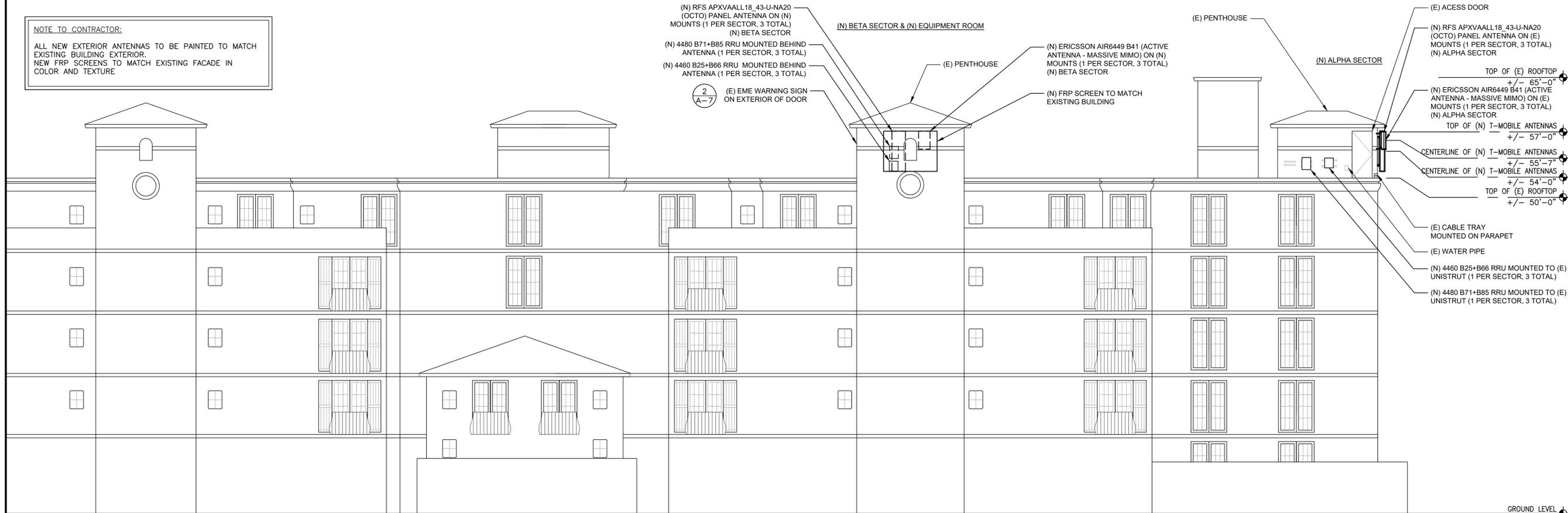
SHEET TITLE
 ANTENNA AND EQUIPMENT LAYOUT PLANS

SHEET NUMBER
A-2.1



22"x34" SCALE: 1/8" = 1'-0"
 11"x17" SCALE: 1/16" = 1'-0"
 8' 6" 4" 2" 0" 8'

EXISTING SOUTH ELEVATION 2



NOTE TO CONTRACTOR:
 ALL NEW EXTERIOR ANTENNAS TO BE PAINTED TO MATCH EXISTING BUILDING EXTERIOR.
 NEW FRP SCREENS TO MATCH EXISTING FACADE IN COLOR AND TEXTURE

22"x34" SCALE: 1/8" = 1'-0"
 11"x17" SCALE: 1/16" = 1'-0"
 8' 6" 4" 2" 0" 8'

NEW SOUTH ELEVATION 1

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.



T-MOBILE WEST LLC
 1855 GATEWAY BLVD, STE 900
 CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214
 CLEVELAND, OH 44122

REVISIONS

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O	11/22/21	100% CDS	RGL
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 PALO ALTO, CA 94301

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SHEET TITLE
 ARCHITECTURAL ELEVATIONS

SHEET NUMBER
A-3



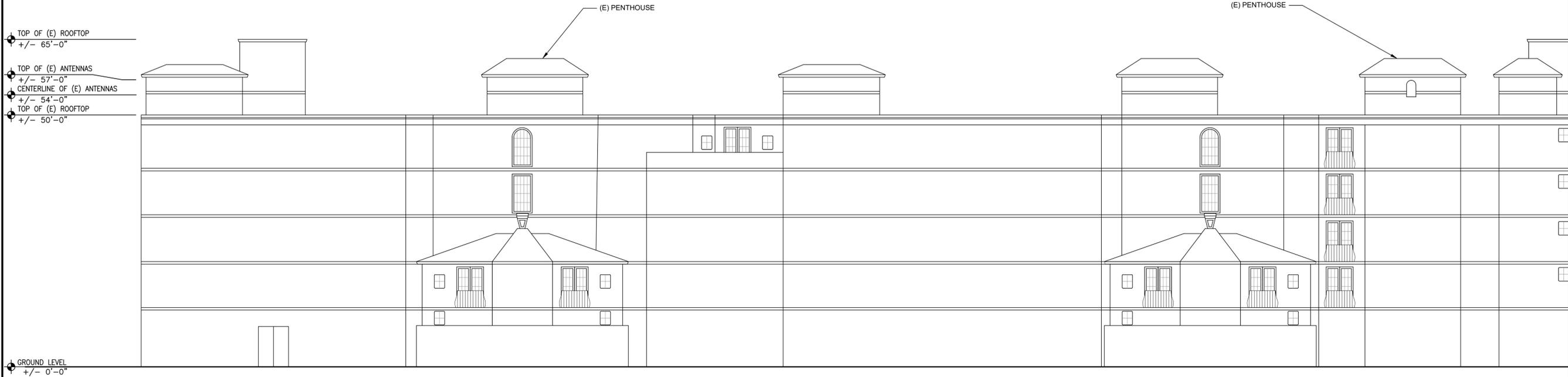
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REVISIONS

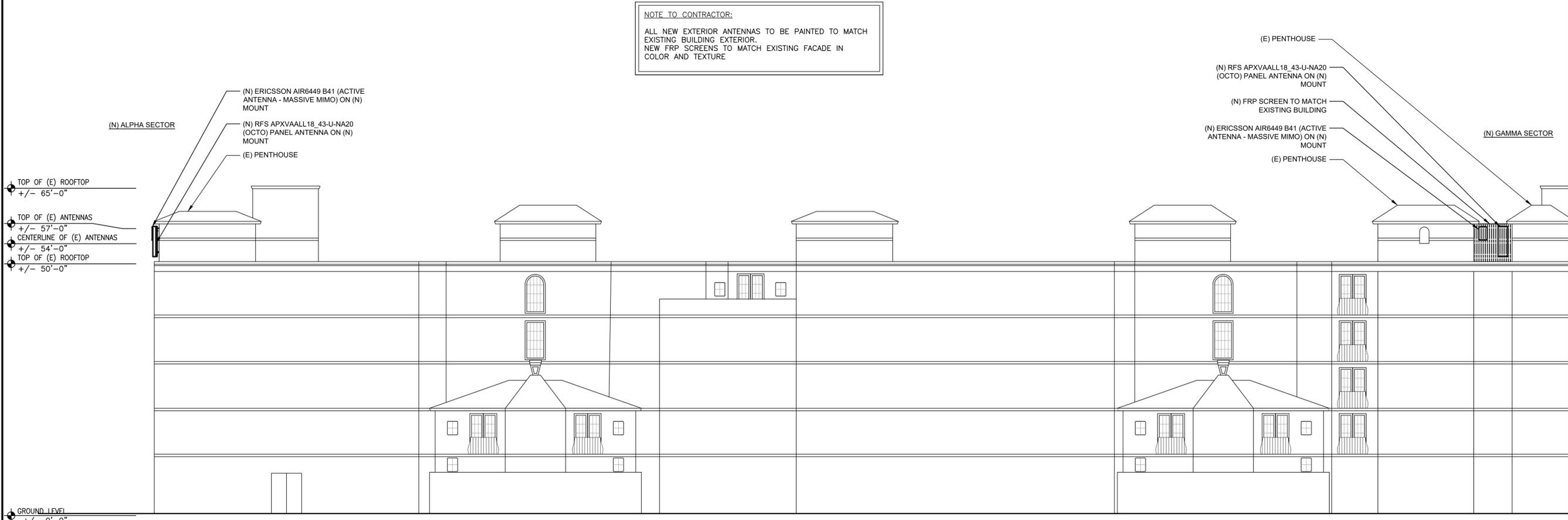
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EXISTING NORTH ELEVATION 2

NOTE TO CONTRACTOR:
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NEW FRP SCREENS TO MATCH EXISTING FACADE IN COLOR AND TEXTURE



NEW NORTH ELEVATION 1

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SHEET TITLE
ARCHITECTURAL ELEVATIONS

SHEET NUMBER
A-3

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SHEET TITLE
 ARCHITECTURAL ELEVATIONS

SHEET NUMBER
A-3.2



TOP OF (E) ROOFTOP
 +/- 65'-0"
 TOP OF (E) ANTENNAS
 +/- 57'-0"
 CENTERLINE OF (E) ANTENNAS
 +/- 54'-0"
 TOP OF (E) ROOFTOP
 +/- 50'-0"

GROUND LEVEL
 +/- 0'-0"

22"x34" SCALE: 1/8" = 1'-0"
 11"x17" SCALE: 1/16" = 1'-0"
 8' 6' 4' 2' 0' 8'

EXISTING EAST ELEVATION 2



TOP OF (E) ROOFTOP
 +/- 65'-0"
 TOP OF (E) ANTENNAS
 +/- 57'-0"
 CENTERLINE OF (E) ANTENNAS
 +/- 54'-0"
 TOP OF (E) ROOFTOP
 +/- 50'-0"

GROUND LEVEL
 +/- 0'-0"

22"x34" SCALE: 3/32" = 1'-0"
 11"x17" SCALE: 3/64" = 1'-0"
 8' 4' 0' 8'

NEW EAST ELEVATION 1

NOTE TO CONTRACTOR:
 ALL NEW EXTERIOR ANTENNAS TO BE PAINTED TO MATCH EXISTING BUILDING EXTERIOR.
 NEW FRP SCREENS TO MATCH EXISTING FACADE IN COLOR AND TEXTURE

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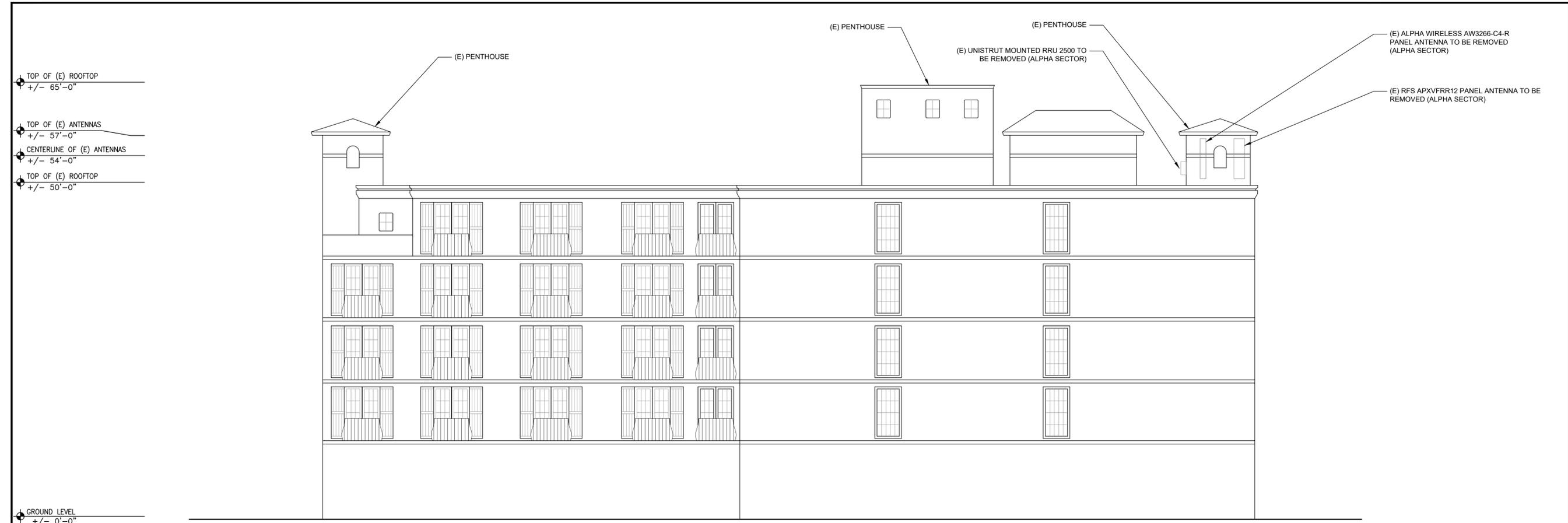
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 PALO ALTO, CA 94301

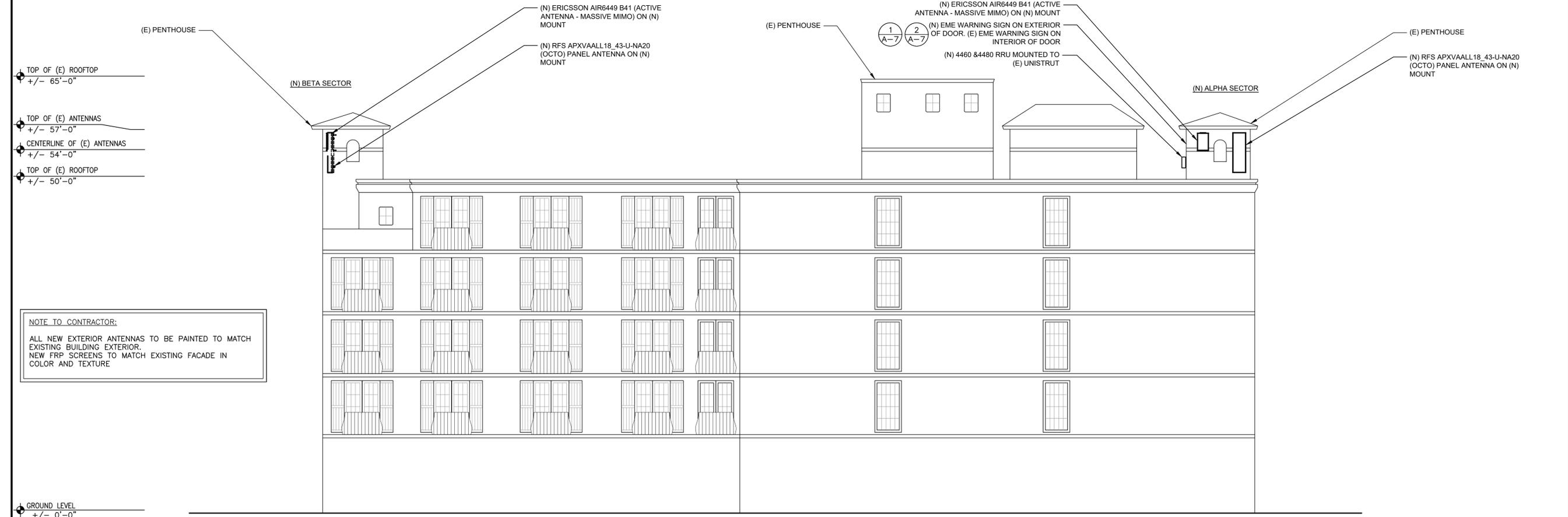
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SHEET TITLE
 ARCHITECTURAL ELEVATIONS

SHEET NUMBER
A-3.3



22"x34" SCALE: 1/8" = 1'-0"
 11"x17" SCALE: 1/16" = 1'-0"
 EXISTING WEST ELEVATION **2**



22"x34" SCALE: 1/8" = 1'-0"
 11"x17" SCALE: 1/16" = 1'-0"
 NEW WEST ELEVATION **1**

NOTE TO CONTRACTOR:
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 NEW FRP SCREENS TO MATCH EXISTING FACADE IN COLOR AND TEXTURE

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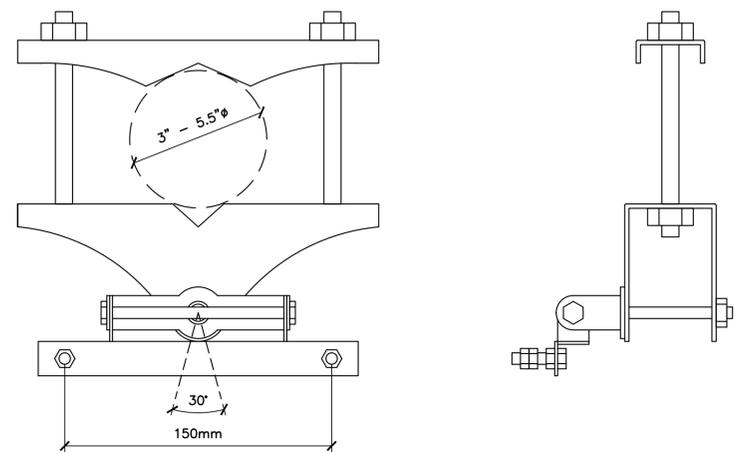
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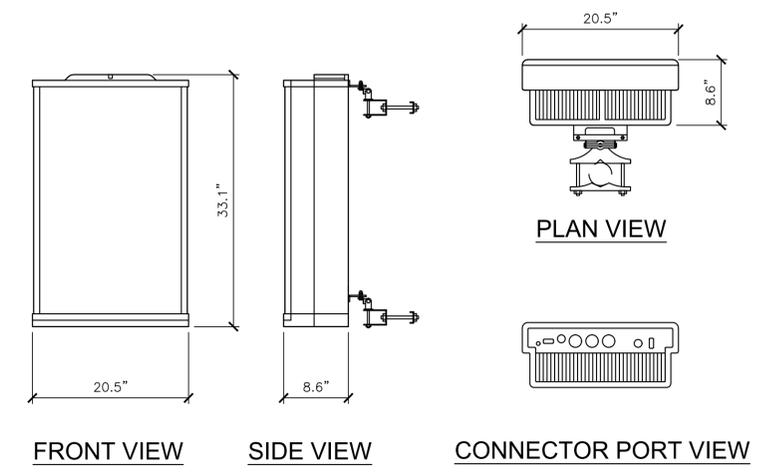
SHEET TITLE
 EQUIPMENT DETAILS

SHEET NUMBER
A-4

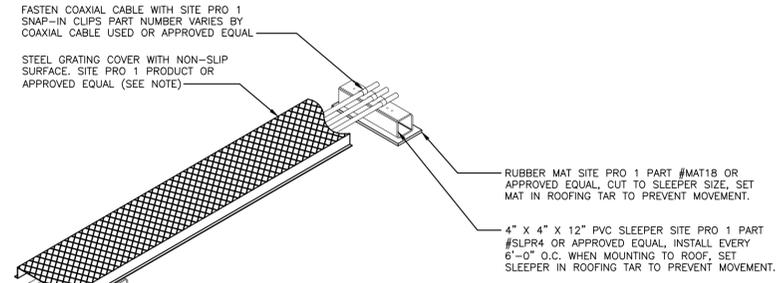
TYPE NO.	SXK 109 2064/1
NAME	AIR BRACKET MEDIUM
SUITABLE FOR MAST DIAMETER	3"-5.5" (76-114 MM)
ANTENNA - MAST DISTANCE F	128-132 MM
COMPATABILITY	AIR UNITS W/ 150MM INTERFACE
NUMBER OF PIECES	2 PIECES
MATERIAL - CLAMP	HOT-DIP GALVANIZED STEEL
-SCREWS	HOT-DIP GALVANIZED STEEL
-NUTS	STAINLESS STEEL
WEIGHT	9 LBS (4.4 KG)



ANTENNA SPECIFICATIONS	
MANUFACTURER:	ERICSSON
MODEL:	AIR 6449
HEIGHT:	33.1"
WIDTH:	20.5"
DEPTH:	8.6"
WEIGHT:	104 LBS



NOTE:
 MICROFLECT COAX GRATING BRIDGE KIT INCLUDES PVC SLEEPERS AND STEEL GRATING COVER WITH MOUNTING HARDWARE
 PART #SP1542 (4 COAX) OR APPROVED EQUAL
 #SP1543 (7 COAX) OR APPROVED EQUAL
 #SP1595 (12 COAX) OR APPROVED EQUAL

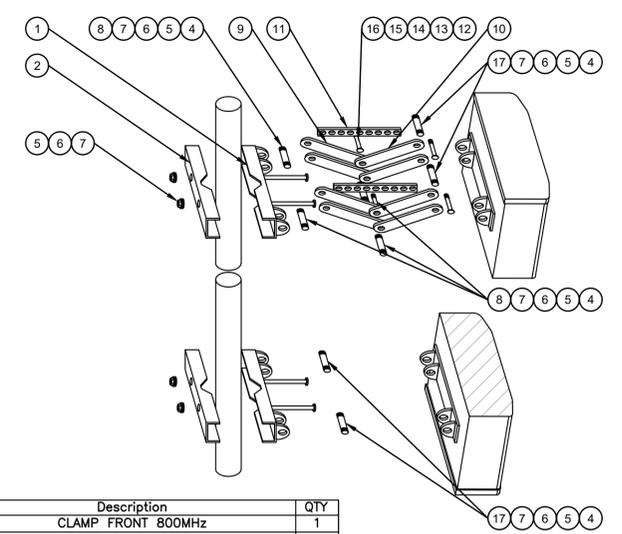
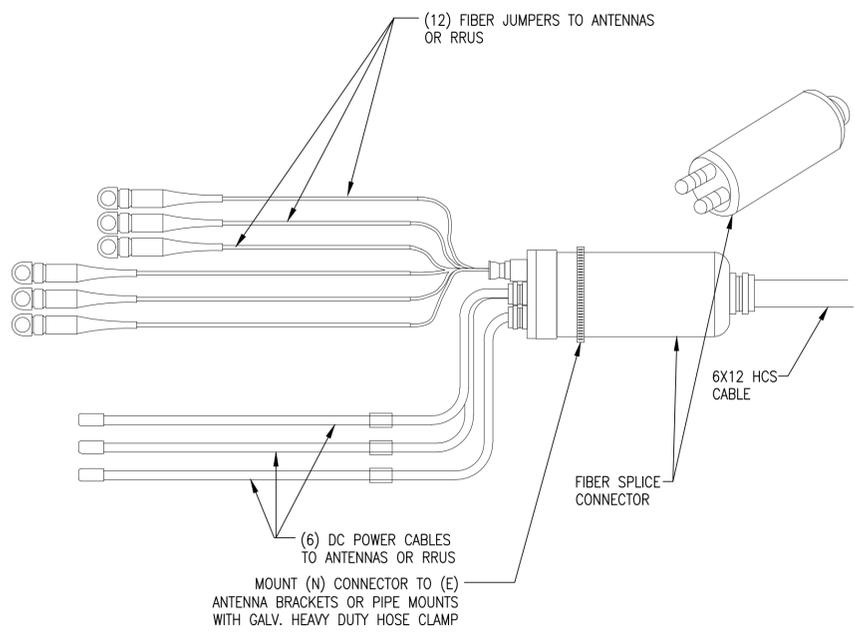


N.T.S. ROOFTOP CABLE TRAY DETAIL 6

N.T.S. 'AIR' BRACKET MEDIUM DETAIL 4

N.T.S. ERICSSON AIR 6449 ANTENNA DETAILS 2

NOTE:
 NUMBER OF LINES SHOWN FOR REFERENCE ONLY. ACTUAL # OF DC AND FIBER LINES SPECIFIC TO MODEL OF HCS CABLES

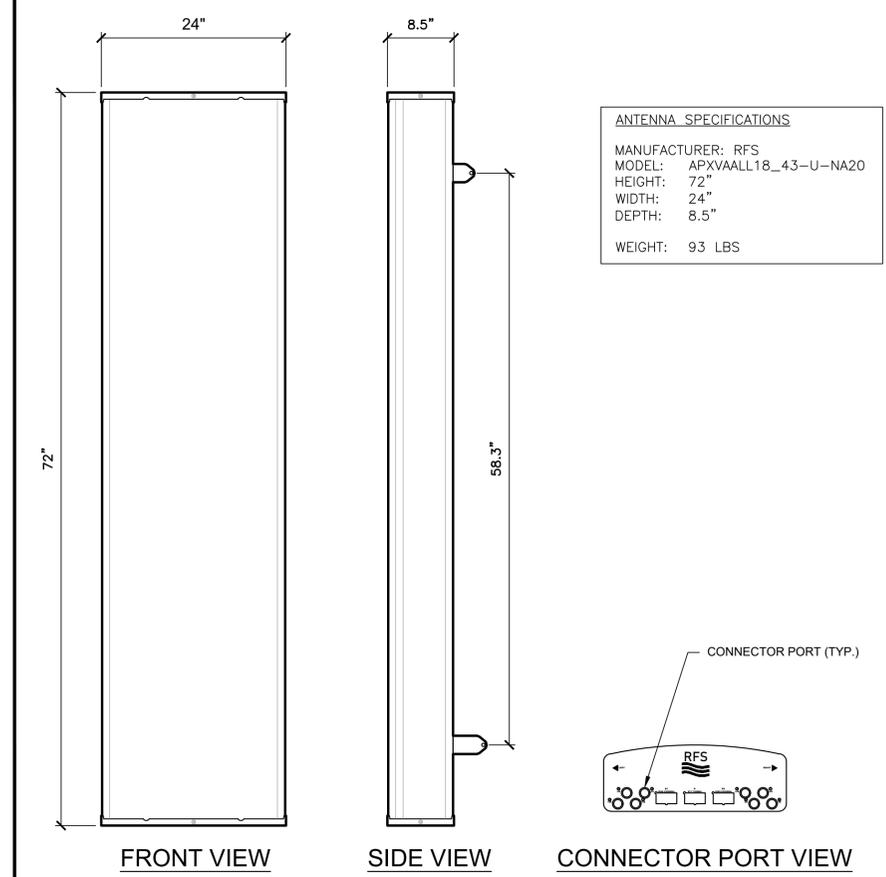


Item	Description	QTY
1	CLAMP FRONT 800MHz	1
2	CLAMP REAR 800MHz	1
3	M12-200, GALV. DIN603/ISO8677, CLASS 8.8	1
4	SCREW H M12X110 CS 35K 8.8 GVRO ISO4017	4
5	WASHER FL 13X24X2.5 CS 200HV GVRO GB97	4
6	WASHER SP 12X3.5 65Mn 200HV GVRO GB7244	2
7	NUT H M12X19X10 CS 35K 8 GVRO DIN934	2
8	STUB FOR SCISSOR	1
9	DOWNTILT SCISSOR	1
10	DOWNTILT BEAM	1
11	MECHANICAL DOWNTILT INDICATOR 800MHz 2.6M	4
12	STUB SPACER 3mm	4
13	M8-100 GALV. ISO8677, CLASS 4.8	2
14	SPRING LOCK WASHER A8 DIN127 A2	2
15	FLAT WASHER DIN125 8.4 A2 (FRTR)	4
16	M8X1, 25 HEX NUT STL GALV.	2
17	SPACER FOR BOTTOM MOUNTING	2

MANUFACTURER: RFS
 MODEL: AMP40-5E MOUNTING KIT
 WEIGHT: 22 LBS

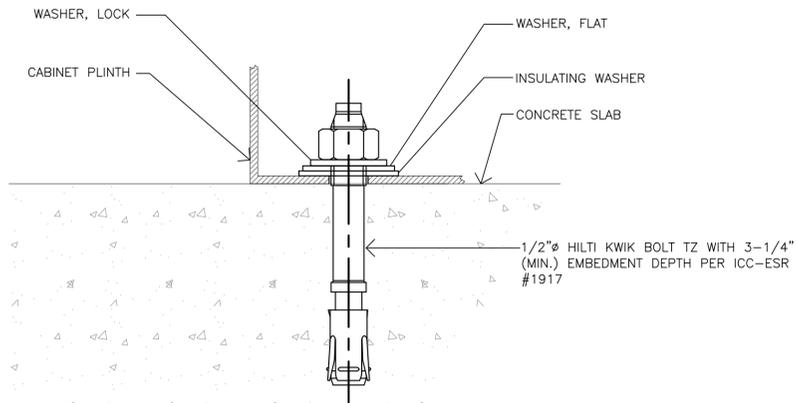
N.T.S. 6X12 HCS CABLE DETAIL 5

N.T.S. RFS AMP40-5E ANTENNA MOUNT KIT DETAIL 3



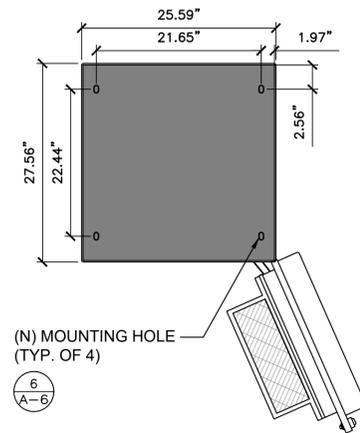
ANTENNA SPECIFICATIONS	
MANUFACTURER:	RFS
MODEL:	APXVAALL18_43-U-NA20
HEIGHT:	72"
WIDTH:	24"
DEPTH:	8.5"
WEIGHT:	93 LBS

N.T.S. RFS ANTENNA APXVAALL18_43-U-NA20 DETAIL 1

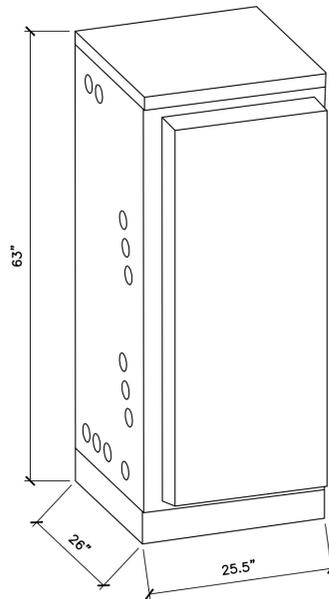


B160 SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: B160
 HEIGHT: 63"
 WIDTH: 25.5"
 DEPTH: 26"
 WEIGHT: 295 LBS (EMPTY)
 WEIGHT: 1883 LBS MAX. (W/ 3 BATTERY STRINGS)

NOTE:
 EXISTING BATTERY CABINET TO BE REMOVED IN OTHER PENTHOUSE IS 23" X 31" X 72". NO EXISTING CABINET IN NEW PENTHOUSE



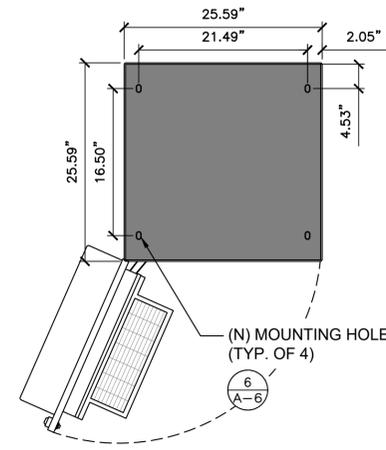
PLAN VIEW



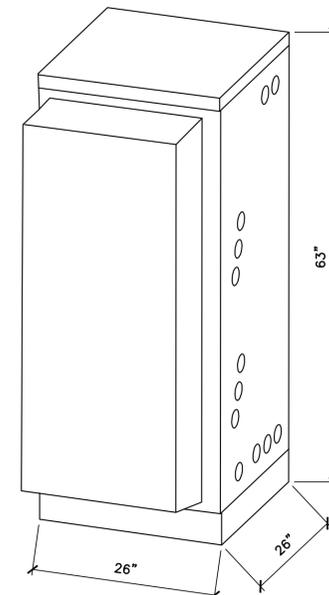
ISOMETRIC VIEW

SSC 6160 SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: 6160
 HEIGHT: 63"
 WIDTH: 26"
 DEPTH: 26"
 WEIGHT: 320 LBS (EMPTY)
 EQUIP: 120 LBS
 TOTAL: 440 LBS

NOTE:
 EXISTING EQUIPMENT CABINET TO BE REMOVED IN OTHER PENTHOUSE IS 28" X 29" X 72". NO EXISTING CABINET IN NEW PENTHOUSE



PLAN VIEW

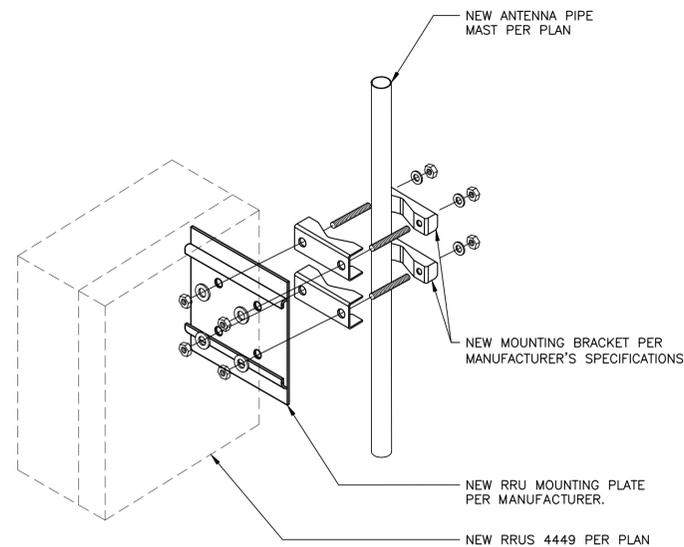


ISOMETRIC VIEW

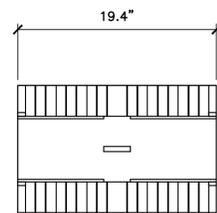
N.T.S. CABINET TO CONCRETE MOUNTING 6

N.T.S. ERICSSON B160 DETAIL 4

N.T.S. ERICSSON SSC 6160 DETAIL 2

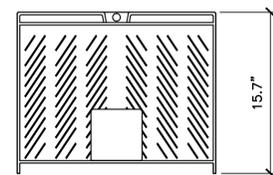


N.T.S. RADIO MOUNTING BRACKET 5

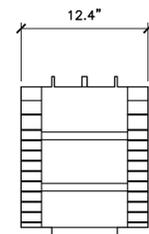


TOP VIEW

RADIO SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: DUAL-BAND 4460
 HEIGHT: 1'-3.7"
 WIDTH: 1'-7.4"
 DEPTH: 1'-4"
 WEIGHT: 108 LBS (±4LBS)

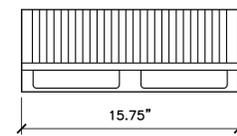


FRONT VIEW



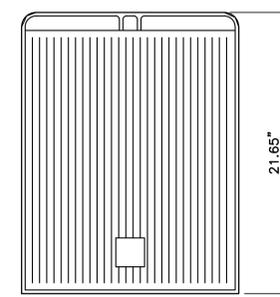
SIDE VIEW

N.T.S. ERICSSON DUAL BAND RADIO 4460 DETAIL 3

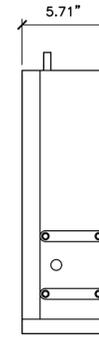


TOP VIEW

RADIO SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: DUAL-BAND 4480
 HEIGHT: 1'-9.65"
 WIDTH: 1'-3.75"
 DEPTH: 5.71"
 WEIGHT: 70.55 LBS (±4LBS)



FRONT VIEW



SIDE VIEW

N.T.S. ERICSSON DUAL BAND RADIO 4480 DETAIL 1

DRAWN BY: BWG
 CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
0	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

PALO ALTO WESTIN
 HOTEL
 SF69003S
 675 EL CAMINO REAL
 PALO ALTO, CA 94301

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SHEET TITLE
 EQUIPMENT DETAILS

SHEET NUMBER
A-5

DRAWN BY: BWG
 CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
O	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

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 675 EL CAMINO REAL
 PALO ALTO, CA 94301

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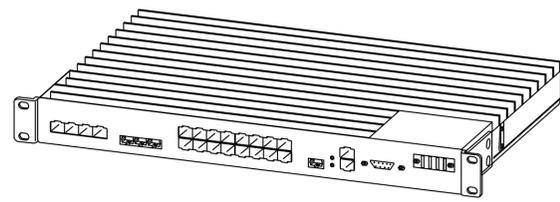
SHEET TITLE
 EQUIPMENT DETAILS

SHEET NUMBER
A-6

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

BASEBAND SPECIFICATIONS

MANUFACTURER: ALCATEL LUCENT
 MODEL: 7705 SAR-M
 HEIGHT: 1.73" (1 RU)
 WIDTH: 9.5"
 DEPTH: 17.4"
 WEIGHT: T.B.D. LBS



N.T.S. CSR IXRE V2 DETAIL **6**

NORTHSTAR - NSB 190FT HT RED

NOM. VOLTAGE: 12v
 NOM. CAPACITY 190AMP-HOURS; 8 HOUR RATE TO 1.75 VOLTS PER CELL @ 25°C (77°F)
 LENGTH: 22.00" (558.80 mm)
 WIDTH: 4.90" (124.46 mm)
 HEIGHT: 12.60" (320.04 mm)
 WEIGHT: 132 lbs (59.9 kg) Nominal
 TERMINAL: FRONT ACCESSIBLE, HEAVY DUTY THREADED (M8x1.25) COPPER ALLOY
 LEAD WEIGHT: 92.4 LBS
 ELECTROLYTE VOLUME: 2.03 GAL
 ELECTROLYTE WEIGHT: 22.44 LBS
 SULFURIC ACID VOLUME: 0.60 GAL
 SULFURIC ACID WEIGHT: 9.41 LBS

190 AH x 12V / 1000 = 2.28 KWH/BATTERY
 TOTAL BATTERIES INSTALLED = 12
 2.28 x 12 BATTERIES = 27.36 KWH TOTAL



NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

BASEBAND SPECIFICATIONS

MANUFACTURER: ERICSSON
 MODEL: POWER 6230
 HEIGHT: 6U
 WIDTH: 19"
 DEPTH: 15.5"
 WEIGHT: 53 LBS

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

BASEBAND SPECIFICATIONS

MANUFACTURER: ERICSSON
 MODEL: POWER 6230
 HEIGHT: 6U
 WIDTH: 19"
 DEPTH: 15.5"
 WEIGHT: 53 LBS

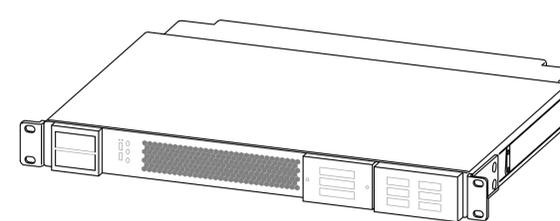


N.T.S. POWER 6230 DETAIL **2**

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

BASEBAND SPECIFICATIONS

MANUFACTURER: ERICSSON
 MODEL: PSU 48130
 HEIGHT: 1.75" (1 RU)
 WIDTH: 19"
 DEPTH: 13"
 WEIGHT: 17.3 LBS

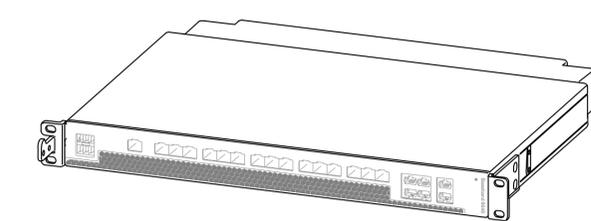


N.T.S. PSU 4813 DETAIL **5**

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

BASEBAND SPECIFICATIONS

MANUFACTURER: ERICSSON
 MODEL: BASEBAND 6648
 HEIGHT: 1.75" (1 RU)
 WIDTH: 19"
 DEPTH: 14.3"
 WEIGHT: 16.5 LBS

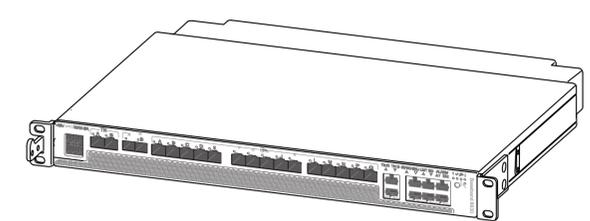


N.T.S. BASEBAND 6648 DETAIL **3**

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

BASEBAND SPECIFICATIONS

MANUFACTURER: ERICSSON
 MODEL: BASEBAND 6630
 HEIGHT: 1.75" (1 RU)
 WIDTH: 19"
 DEPTH: 13.8"
 WEIGHT: 14.33 LBS



N.T.S. BASEBAND 6630 DETAIL **1**

DRAWN BY: BWG
 CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
O	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



6

4

EXISTING RF SIGNAGE 2



5

3

PROPOSED RF SIGNAGE 1

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 PALO ALTO, CA 94301

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SHEET TITLE
 EQUIPMENT DETAILS

SHEET NUMBER
A-6

EXISTING ANTENNA SCHEDULE										
POSITION	ANTENNA			ANTENNA AZIMUTH	RAD CENTER	TMA/RRU	CABLE TYPE	CABLE LENGTH	JUMPERS	
	TECH	MODEL	SIZE							
ALPHA SECTOR	A1	-	RFS APXVFRR12	4'-0"	290°	54'-0"	(1) RRU 800 (1) RRU 1900	(1) FIBER	±225'	-
	A2	-	ALPHA WIRELESS AW3266-C4-R	4'-6"	290°	54'-0"	(1) RRU 2500	-	-	-
BETA SECTOR	B1	-	RFS APXVFRR12	4'-0"	30°	54'-0"	(1) RRU 800 (1) RRU 1900	(1) FIBER	±370'	-
	B2	-	ALPHA WIRELESS AW3266-C4-R	4'-6"	30°	54'-0"	(1) RRU 2500	-	-	-
GAMMA SECTOR	C1	-	RFS APXVFRR12	4'-0"	160°	54'-0"	(1) RRU 800 (1) RRU 1900	(1) FIBER	±20'	-
	C2	-	ALPHA WIRELESS AW3266-C4-R	4'-6"	160°	54'-0"	(1) RRU 2500	-	-	-
TOTAL		(3) RFS APXVFRR12 (3) ALPHA WIRELESS AW3266-C4-R			(3) RRU 800 (3) RRU 1900 (3) RRU 2500		(3) FIBER CABLES		-	

NEW ANTENNA SCHEDULE										
POSITION	ANTENNA			ANTENNA AZIMUTH	RAD CENTER	TMA/RRU	CABLE TYPE	CABLE LENGTH	JUMPERS	
	TECH	MODEL	SIZE							
ALPHA SECTOR	A1	L700 L600 N600 G1900 L1900 L2100	RFS APXVAALL18_43-U-NA20 (OCTO)	6'-0"	70°	54'-0"	RRU 4480 B71+B85 RRU 4460 B25+B66	HCS 6/24 4AWG	110m	(4) 6' SUREFLEX 4.3 TO 4.3-10 (4) 10' SUREFLEX 4.3 TO 4.3-10 (6) FIBER JUMPERS
	A2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	70°	55'-7"	-			(4) FIBER JUMPERS
BETA SECTOR	B1	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	160°	55'-7"	-	HCS 6/24 4AWG	110m	(4) FIBER JUMPERS
	B2	L700 L600 N600 G1900 L1900 L2100	RFS APXVAALL18_43-U-NA20 (OCTO)	6'-0"	160°	54'-0"	RRU 4480 B71+B85 RRU 4460 B25+B66			(4) 6' SUREFLEX 4.3 TO 4.3-10 (4) 10' SUREFLEX 4.3 TO 4.3-10 (6) FIBER JUMPERS
GAMMA SECTOR	C1	L700 L600 N600 G1900 L1900 L2100	RFS APXVAALL18_43-U-NA20 (OCTO)	6'-0"	340°	54'-0"	RRU 4480 B71+B85 RRU 4460 B25+B66	HCS 6/24 4AWG	110m	(4) 6' SUREFLEX 4.3 TO 4.3-10 (4) 10' SUREFLEX 4.3 TO 4.3-10 (6) FIBER JUMPERS
	C2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	340°	55'-7"	-			(4) FIBER JUMPERS
TOTAL		(3) RFS APXVAALL18_43-U-NA20 (OCTO) (3) ERICSSON AIR6449 B41			(3) RRU 4480 B71+B85 (3) RRU 4460 B25+B66		(3) HCS 6/24 4AWG		(12) 6' SUREFLEX 4.3 TO 4.3-10 (12) 10' SUREFLEX 4.3 TO 4.3-10 (30) FIBER JUMPERS	

NOTE:
1. DO NOT USE RFDS COAX/CAB/E/FIBER LENGTHS FOR CUT LENGTHS: ESTIMATES ONLY.
2. CONFIRM THAT THE GENERAL CONTRACTOR IS USING LATEST VERSION OF RFDS

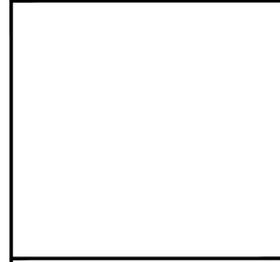


DRAWN BY: BWG
CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
O	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

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 PALO ALTO, CA 94301



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SHEET TITLE
ANTENNA SCHEDULES

SHEET NUMBER
RF-1

DRAWN BY: BWG
CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
0	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

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PALO ALTO WESTIN HOTEL
SF69003S
675 EL CAMINO REAL
PALO ALTO, CA 94301

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SHEET TITLE
RFDS INFORMATION

SHEET NUMBER
RF-2

8/25/2021 SF69003S_Sprint Retain_1_2021-08-25
Print Name: Standard (1)
POR#: New Build_Sprint Keep

Section 5 - RAN Equipment

Existing RAN Equipment
---- This section is intentionally blank. ----

Proposed RAN Equipment
Template: 67ESA998E 6160

Enclosure	1	2	3
Enclosure Type	Enclosure 6160	RBS 6601	B160
Baseband	BB 6648 (L700, L2500, L600, N2500, N600, L2100, L1900)	DUU20 (G1900)	
Hybrid Cable System	Ericsson Hybrid Trunk 6/24 4AWG 110m (x 3) PSU 4813 (x 2)		
Transport System	CSR IXRv2 (Gen2) CSR 7705 SAR M		

RAN Scope of Work:

8/16/2021: Updated BB count 3 to 2, from BB 6648 L2100L1900 to BB6648 (L700L600N600L1900L2100) and added SAR-M router
 *S25: Adjusted azimuth for Beta from 140 to 160 based on new location proposed by sure-site as EME was falling from the previous proposed location
 *4/5/2021: New AZM approved by Performance Engineer, 70140/340 for Sector A/B/C respectively. In case Beta relocation of antennas is not possible within the equipment room, then azimuth will be adjusted accordingly.
 SF69003S: 67ESA998E (2 antenna per sector and 1) - Octo Antenna
 *Alpha sector: antenna to be located on the north side
 **Beta sector: need to check the room to add 2nd antenna

- 1) Add (3) APXVALL18-RFS (8 R) - Octo port antenna (1) per sector
- 2) Add (3) AIR6449 (L1E-2500/N2500), (1) per sector
- 3) Add (3) Radio 4480 (B71+B85) near antenna - (1) per sector (64,7N6) - connect to Octo port
- 4) Add (3) Radio 4480 (B66+B25) near antenna, (1) per sector (24,19 +CSMA mixed mode and L21) - connect to Octo port
- 5) Add (1) enclosure 6160 site support cabinet & (1) B160 battery cabinet
- 6) Add (1) (DUU20 (GSM)) RBS 6601 inside enclosure 6160
- 7) Add (1) BB6648 inside 6160 cabinet, (1) for L19L21, L000L700N600 inside enclosure 6160
- 8) Add (1) RBS648 for AIR649 N200L2500 inside enclosure 6160
- 9) Add (3) B24 110M 4AWGS
- 10) Add (2) PSU 4813 voltage booster
- 11) Add (1) IXRv2 router and (1) SAR-M router

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8/25/2021 SF69003S_Sprint Retain_1_2021-08-25
Print Name: Standard (1)
POR#: New Build_Sprint Keep

Section 6 - A&L Equipment

Existing Template: Custom
Proposed Template: 67ESA998E_1AIR+1OP

Sector 1 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	RFS - APXVALL18_43-U-NA20 (Octo)			Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		
Antenna Azimuth	70			70		
M. Tilt	0			0		
Height	54			54		
Ports	P1	P2	P3	P4	P5	P6
Active Tech.	L700 (L600) (N600)	L700 (L600) (N600)	L2100 (L1900) (G1900)	L2100 (L1900)	L2500 (N2500)	L2500 (N2500)
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt	0	0	0	0	0	0
Cables	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	Fiber Jumper (x2)	Fiber Jumper (x2)
TMA's						
Diplexers / Combiners						
Radio	Radio 4480 (B71+B85 (A1 Antenna))		Radio 4480 (B25+B66 (A1 Antenna))			
Sector Equipment						
Unconnected Equipment:						
Scope of Work:						

https://rfd-prod-web-core-secure.geo.f.t-mobile.com/DataSheet/Printout/5f62f086-5736-4f29-ac9a-920c2610e68e?layoutid=60ca9258-6e4d-4b7d-a8... 5/8

8/25/2021 SF69003S_Sprint Retain_1_2021-08-25
Print Name: Standard (1)
POR#: New Build_Sprint Keep

Sector 2 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)			RFS - APXVALL18_43-U-NA20 (Octo)		
Antenna Azimuth	160			160		
M. Tilt	0			0		
Height	54			54		
Ports	P1	P2	P3	P4	P5	P6
Active Tech.	L2500 (N2500)	L2500 (N2500)	L700 (L600) (N600)	L700 (L600) (N600)	L2100 (L1900) (G1900)	L2100 (L1900)
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt	0	0	0	0	0	0
Cables	Fiber Jumper (x2)	Fiber Jumper (x2)	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper (x2)	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper (x2)
TMA's						
Diplexers / Combiners						
Radio			Radio 4480 (B71+B85 (A1 Antenna))		Radio 4480 (B25+B66 (A1 Antenna))	
Sector Equipment						
Unconnected Equipment:						
Scope of Work:						

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8/25/2021 SF69003S_Sprint Retain_1_2021-08-25
Print Name: Standard (1)
POR#: New Build_Sprint Keep

Sector 3 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	RFS - APXVALL18_43-U-NA20 (Octo)			Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		
Antenna Azimuth	340			340		
M. Tilt	0			0		
Height	54			54		
Ports	P1	P2	P3	P4	P5	P6
Active Tech.	L700 (L600) (N600)	L700 (L600) (N600)	L2100 (L1900) (G1900)	L2100 (L1900)	L2500 (N2500)	L2500 (N2500)
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt	0	0	0	0	0	0
Cables	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper (x2)	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 (x2) Fiber Jumper (x2)	Fiber Jumper (x2)	Fiber Jumper (x2)
TMA's						
Diplexers / Combiners						
Radio	Radio 4480 (B71+B85 (A1 Antenna))		Radio 4480 (B25+B66 (A1 Antenna))			
Sector Equipment						
Unconnected Equipment:						
Scope of Work:						

https://rfd-prod-web-core-secure.geo.f.t-mobile.com/DataSheet/Printout/5f62f086-5736-4f29-ac9a-920c2610e68e?layoutid=60ca9258-6e4d-4b7d-a8... 7/8

KEY NOTES

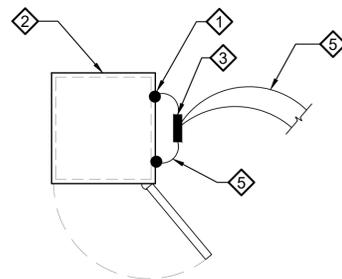
- 1 MECHANICAL CONNECTION
- 2 NEW T-MOBILE EQUIPMENT CABINET
- 3 MASTER GROUND BUS BAR AT EQUIPMENT (DETAIL 7/G-2) (CONTRACTOR TO FIELD VERIFY LOCATION)
- 4 ANTENNA GROUND BUS BAR NEAR ANTENNAS (CONTRACTOR TO FIELD VERIFY LOCATION)
- 5 (2) #2 BARE TINNED COPPER WIRES FROM NEW CABINET TO NEW MASTER GROUND BAR
- 6 AWG 2 INSULATED COPPER GROUND WIRE TO GROUND RING.
- 7 AWG 6 INSULATED COPPER GROUND WIRE FROM ANTENNA GROUND KIT TO ANTENNA BUS BAR (TYP.)
- 8 AWG 2 INSULATED COPPER GROUND FROM RRU, PIPE MOUNT TO ANTENNA BUS BAR
- 9 AWG 2 INSULATED COPPER GROUND WIRE CONNECTED TO MASTER GROUND BUS BAR.
- 10 AWG 2 TO BUILDING STEEL OR (E) BUILDING SERVICE GROUND
- 11 COPPER CLAD GROUND ROD SEE DETAIL 8, G-2
- 12 GROUND TEST WELL SEE DETAIL 6, G-2

LEGEND

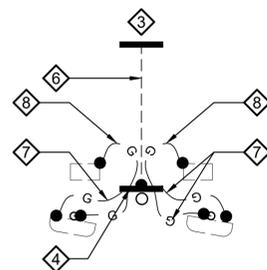
- MECHANICAL CONNECTION
- EXOTHERMIC WELD (CADWELD/THERMOWELD) CONNECTION.
- G — #2 AWG INSULATED, COPPER WIRE (UNLESS OTHERWISE SPECIFIED).

GENERAL NOTES:

1. PLAN DRAWINGS SHOWN HEREIN ARE DIAGRAMMATIC AND DO NOT NECESSARILY DEPICT THE EXACT EQUIPMENT QUANTITIES, LOCATION, LAYOUT AND CONFIGURATION. REFER TO ARCHITECTURAL PLANS FOR EXACT EQUIPMENT LOCATION, LAYOUT AND CONFIGURATION.
2. PLAN DRAWINGS SHOWN HEREIN DO NOT NECESSARILY DEPICT ELECTRICAL REQUIREMENTS OF INDIVIDUAL EQUIPMENT AND DEVICES SUCH AS THE EQUIPMENT GROUNDING REQUIREMENTS, POWER REQUIREMENTS AND TELCO RACEWAY REQUIREMENTS.
3. REFER TO A-1 FOR THE LOCATION OF POWER AND TELCO POINT OF CONNECTIONS, THE DISTANCE OF THE RUN AND THE SUGGESTED CONDUIT ROUTING. FIELD VERIFY EXISTING CONDITIONS SPECIFICALLY FOR CONDUIT ROUTING PRIOR TO BID.



EQUIPMENT GROUNDING



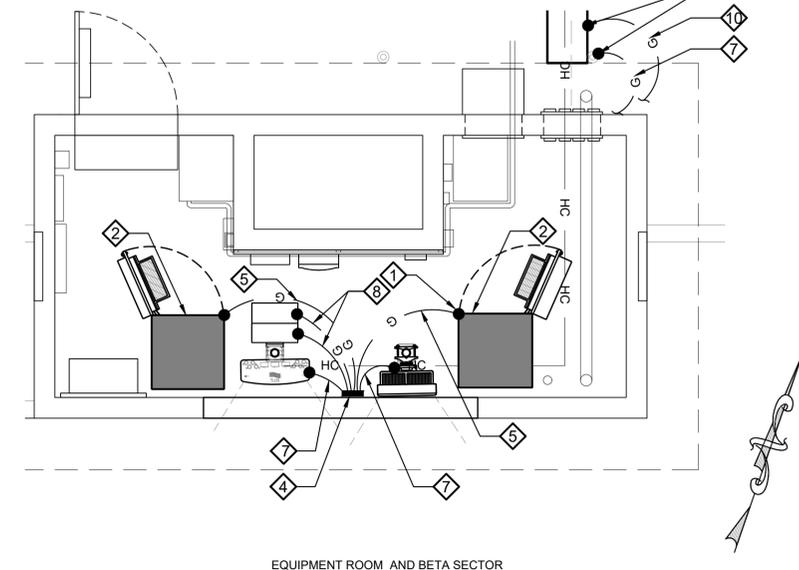
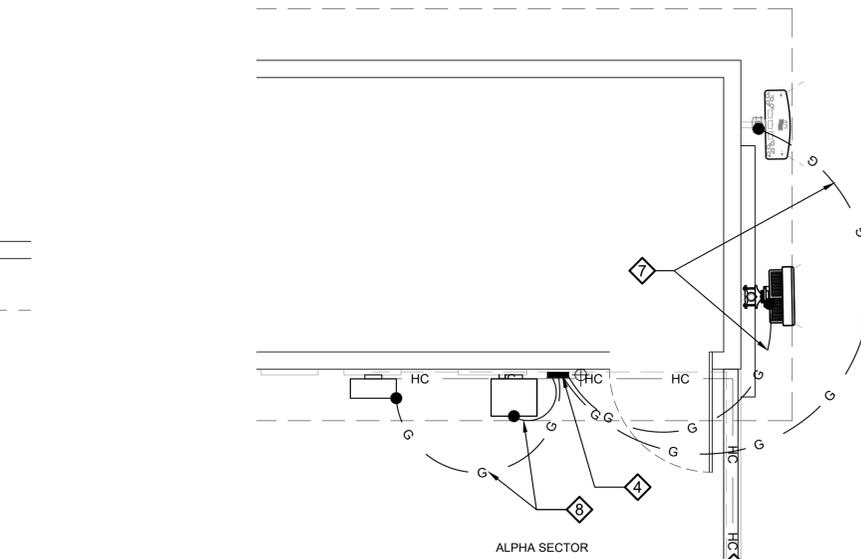
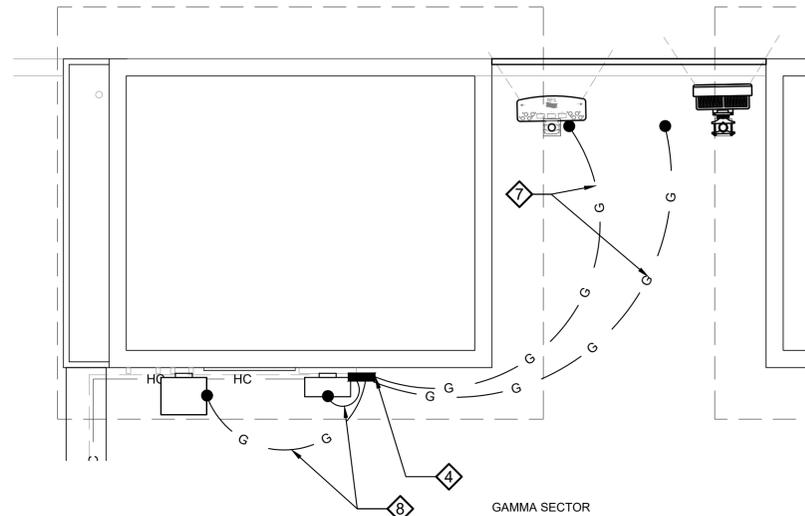
TYP. ANTENNA GROUNDING

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURER'S PRACTICES. ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
3. ALL GROUND CONNECTIONS SHALL BE #2 AWG U.N.O. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 5 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE T-MOBILE REPRESENTATIVE.
5. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
6. BARE GROUNDING CONDUCTOR SHALL BE HARD DRAWN TINNED COPPER SIZES AS NOTED ON PLAN.
7. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED MINIMUM 12" BELOW GRADE/FROST-LINE IN TRENCH, U.N.O., AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT.
8. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.

9. ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" (OR DIRECTLY TO GROUND-RING).
10. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
 - a. BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR INDOOR USE OR AS APPROVED BY T-MOBILE PROJECT MANAGER.
 - b. CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
 - c. TWO (-2) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS (BUS BAR CONNECTIONS).
11. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES).
12. PRIOR TO ANY LUG-BUSSBAR CONNECTIONS, THE BUS BAR SHALL BE CLEANED BY USE OF "SCOTCH-BRITE" OR PLAIN STEEL WOOL AS TO REMOVE ALL SURFACE OXIDATION AND CONTAMINANTS. A COATING OF "NO-OX-ID" SHALL BE APPLIED TO THE CONNECTION SURFACES.
13. ALL CONNECTION HARDWARE SHALL BE TYPE 316 SS (NOT ATTRACTED TO MAGNETS).
14. THE GROUND RING SHALL BE INSTALLED 24" MINIMUM BEYOND ANY BUILDING DRIP LINE.
15. ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250 AND SHALL BOND ALL EXISTING AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS, GROUND RING IF SERVICE IS WITHIN THE RADIO EQUIPMENT LOCATION, BUILDING STEEL IF APPLICABLE. COLD WATER CONNECTIONS MUST BE MADE ON THE STREET SIDE OF MAIN SHUT-OFF VALVE.

GROUNDING NOTES 2

NOTE: THIS PLAN IS NOT INTENDED TO SHOW ALL EXISTING GROUNDING. ONLY PROPOSED GROUNDING AND MAIN GROUND BARS ARE DEPICTED



TRUE NORTH
North to be determined by site survey (if possible).

GROUNDING SCHEMATIC 3

22"x34" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



GROUNDING PLAN 1



DRAWN BY: BWG
CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
O	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

PALO ALTO WESTIN HOTEL
SF69003S
675 EL CAMINO REAL
PALO ALTO, CA 94301

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

SHEET TITLE
GROUNDING SCHEMATIC & NOTES

SHEET NUMBER
G-1

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
0	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

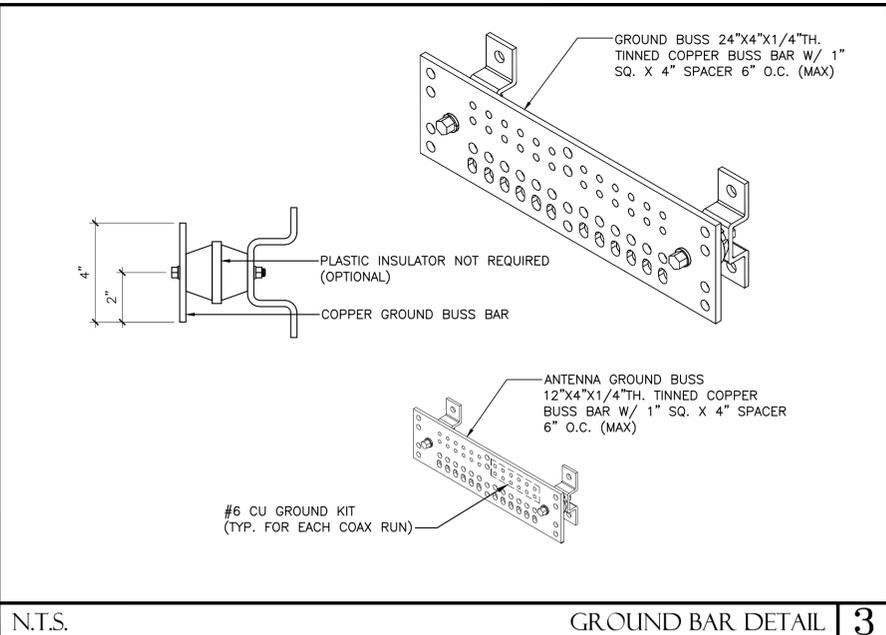
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

PALO ALTO WESTIN HOTEL
SF69003S
 675 EL CAMINO REAL
 PALO ALTO, CA 94301

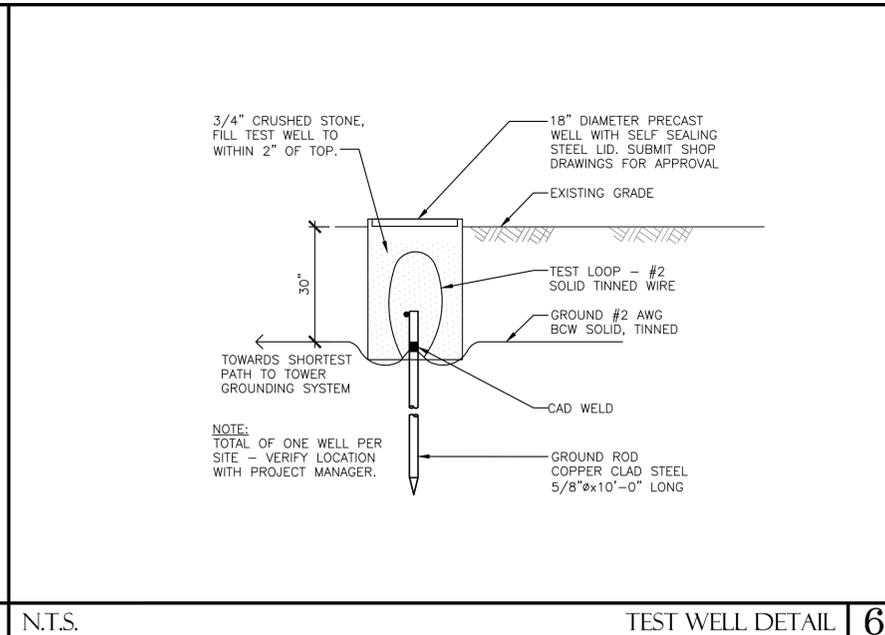
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SHEET TITLE
 GROUNDING DETAILS

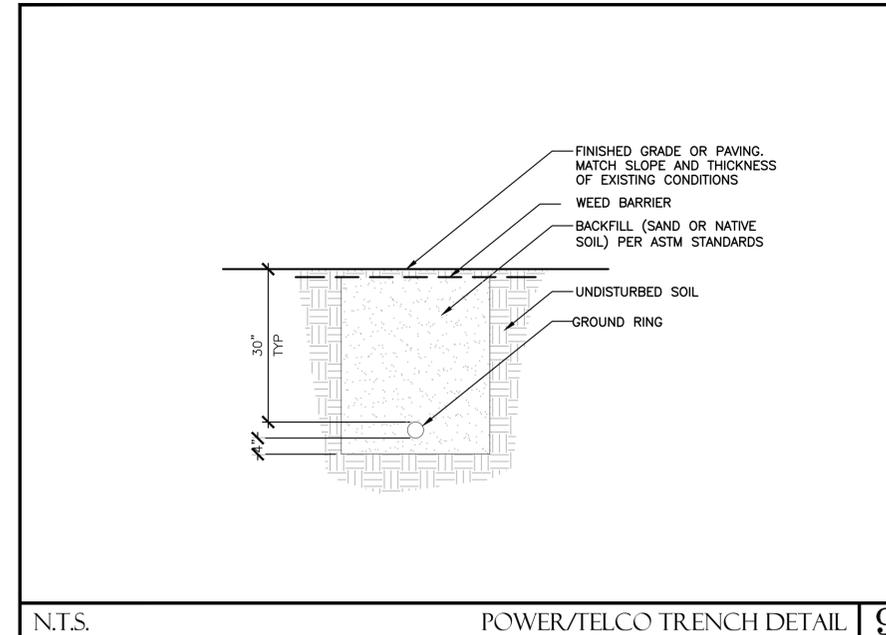
SHEET NUMBER
G-2



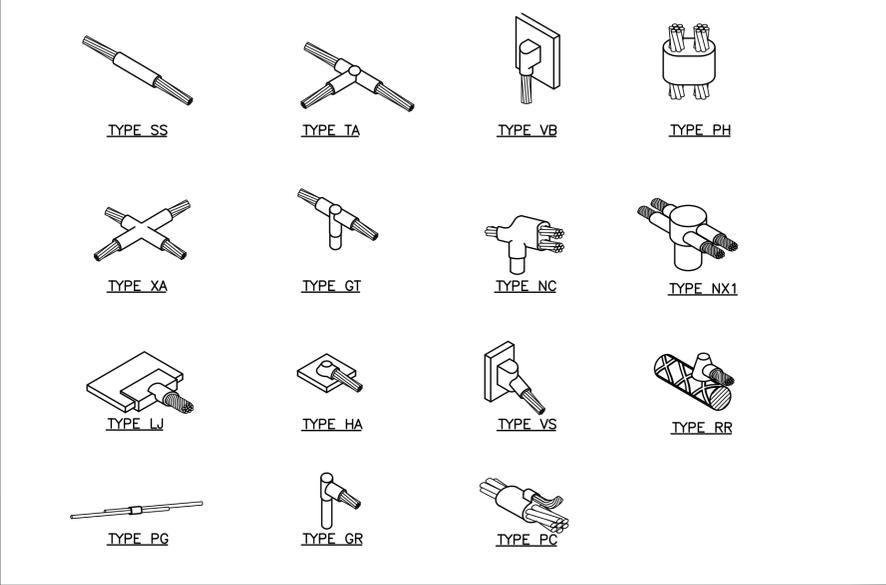
N.T.S. GROUND BAR DETAIL 3



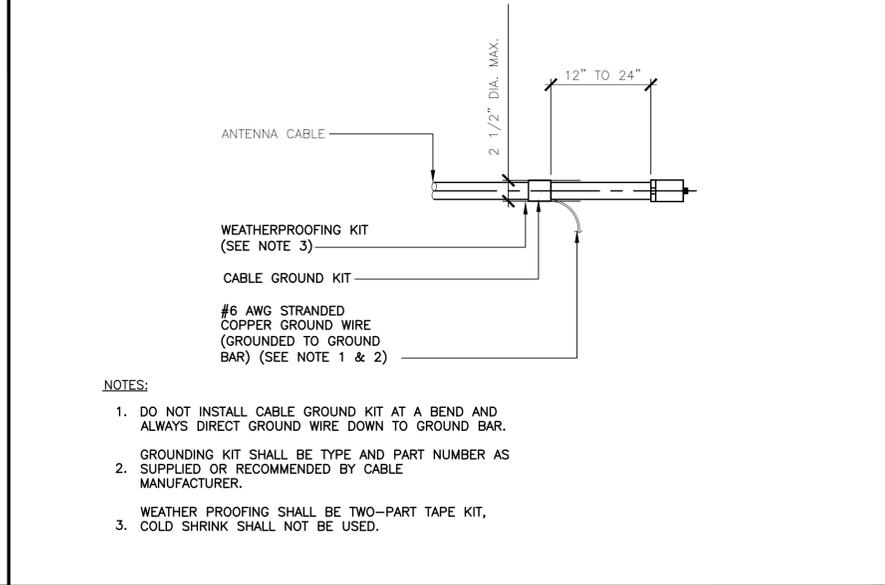
N.T.S. TEST WELL DETAIL 6



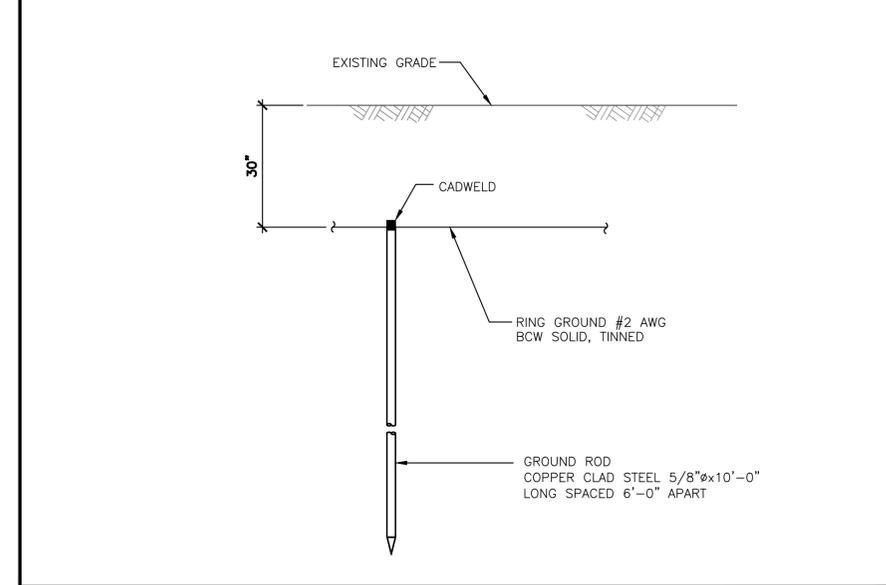
N.T.S. POWER/TELCO TRENCH DETAIL 9



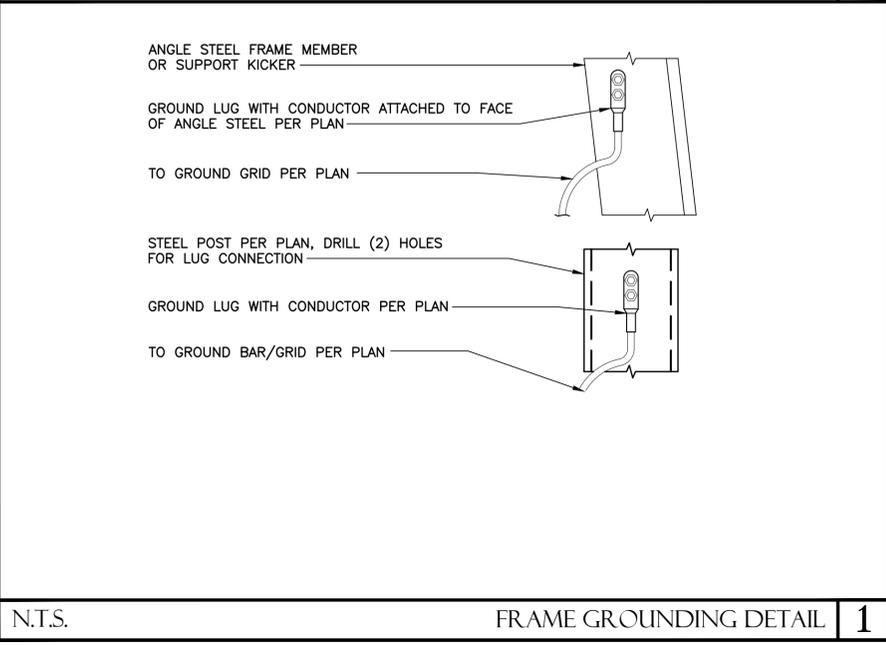
N.T.S. CADWELD CONNECTION DETAIL 2



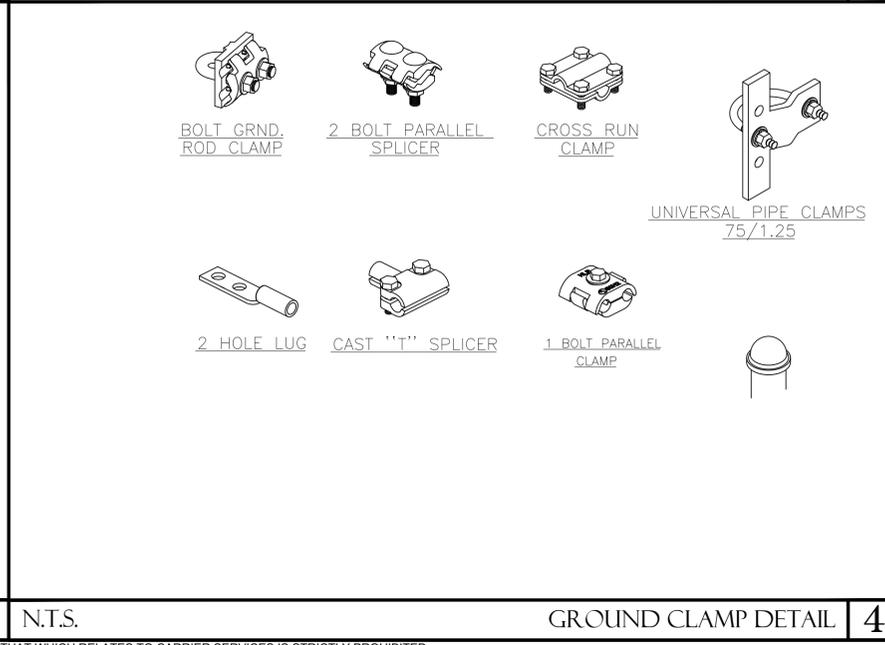
N.T.S. CABLE GROUND KIT DETAIL 5



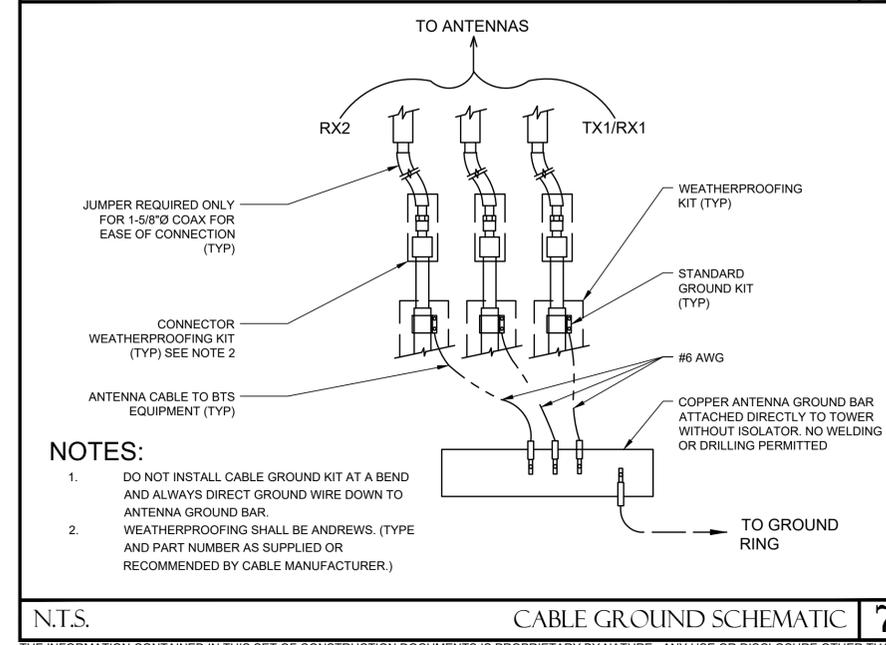
N.T.S. GROUND ROD DETAIL 8



N.T.S. FRAME GROUNDING DETAIL 1



N.T.S. GROUND CLAMP DETAIL 4



N.T.S. CABLE GROUND SCHEMATIC 7

ELECTRIC NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE CEC AS WELL AS ALL APPLICABLE STATE & LOCAL CODES.
- CONTRACTOR SHALL FURNISH & INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, & PERFORM ALL TRENCHING & BACKFILLING REQUIRED IN THE PLANS
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED & PROCURED PER PLAN SPECIFICATIONS.
- ALL CIRCUIT BREAKERS, FUSES, & ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED W/ A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- ELECTRICAL WIRING SHALL BE COPPER #12 MIN W/ TYPE XHHW, THWN, OR THHN INSULATION
- ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
- A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE & HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.

ELECTRICAL NOTES 2

EXISTING PANELBOARD SCHEDULE "PPC"		LOCATION: EQUIPMENT LEASE AREA	
C.B. RATING 10,000 A.I.C.		C.B. RATING 10,000 A.I.C.	
VOLTAGE: 120/240 V., 1Ø, 3 W.		MOUNTING: SURFACE	
MAINS: 200A		TYPE: GE A.Q. OR EQUAL	
USE and/or AREA SERVED	C/B	CIR NO	LOAD
			ØA ØB
-	-	1	-
-	-	2	60/2
-	-	3	-
-	-	4	-
AC	10/1	5	520 8750
-	-	6	100/2
AC	35/2	7	5720 8750
-	-	8	15/1
AC	35/2	9	5720 580
-	-	10	-
BLOWER	20/2	11	520
-	-	12	-
-	-	13	520
-	-	14	-
-	-	15	-
-	-	16	-
-	-	17	-
-	-	18	-
-	-	19	-
-	-	20	-
-	-	21	-
-	-	22	-
-	-	23	-
-	-	24	-
TOTAL LOAD PER PHASE			16170 15070 31080 VA ±240V = 129.5 AMPS

* LOAD AT 125% PER N.E.C. ○ LOCK ON DEVICES ON C.B.'s

EXISTING PANEL SCHEDULE 3

NEW PANELBOARD SCHEDULE "PPC"		LOCATION: EQUIPMENT LEASE AREA	
C.B. RATING 10,000 A.I.C.		C.B. RATING 10,000 A.I.C.	
VOLTAGE: 120/240 V., 1Ø, 3 W.		MOUNTING: SURFACE	
MAINS: 200A		TYPE: GE A.Q. OR EQUAL	
USE and/or AREA SERVED	C/B	CIR NO	LOAD
			ØA ØB
-	-	1	-
-	-	2	60/2
-	-	3	-
-	-	4	-
AC	10/1	5	520 8640
-	-	6	100/2
AC	35/2	7	5720 8640
-	-	8	15/1
AC	35/2	9	5720 580
-	-	10	-
BLOWER	20/2	11	520
-	-	12	-
-	-	13	520
-	-	14	-
-	-	15	-
-	-	16	-
-	-	17	-
-	-	18	-
-	-	19	-
-	-	20	-
-	-	21	-
-	-	22	-
-	-	23	-
-	-	24	-
TOTAL LOAD PER PHASE			15980 14880 30860 VA ±240V = 128.58AMPS

* LOAD AT 125% PER N.E.C. ○ LOCK ON DEVICES ON C.B.'s

NEW PANEL SCHEDULE 4

3.4.2 FUSE RECOMMENDATIONS FOR AC INPUT

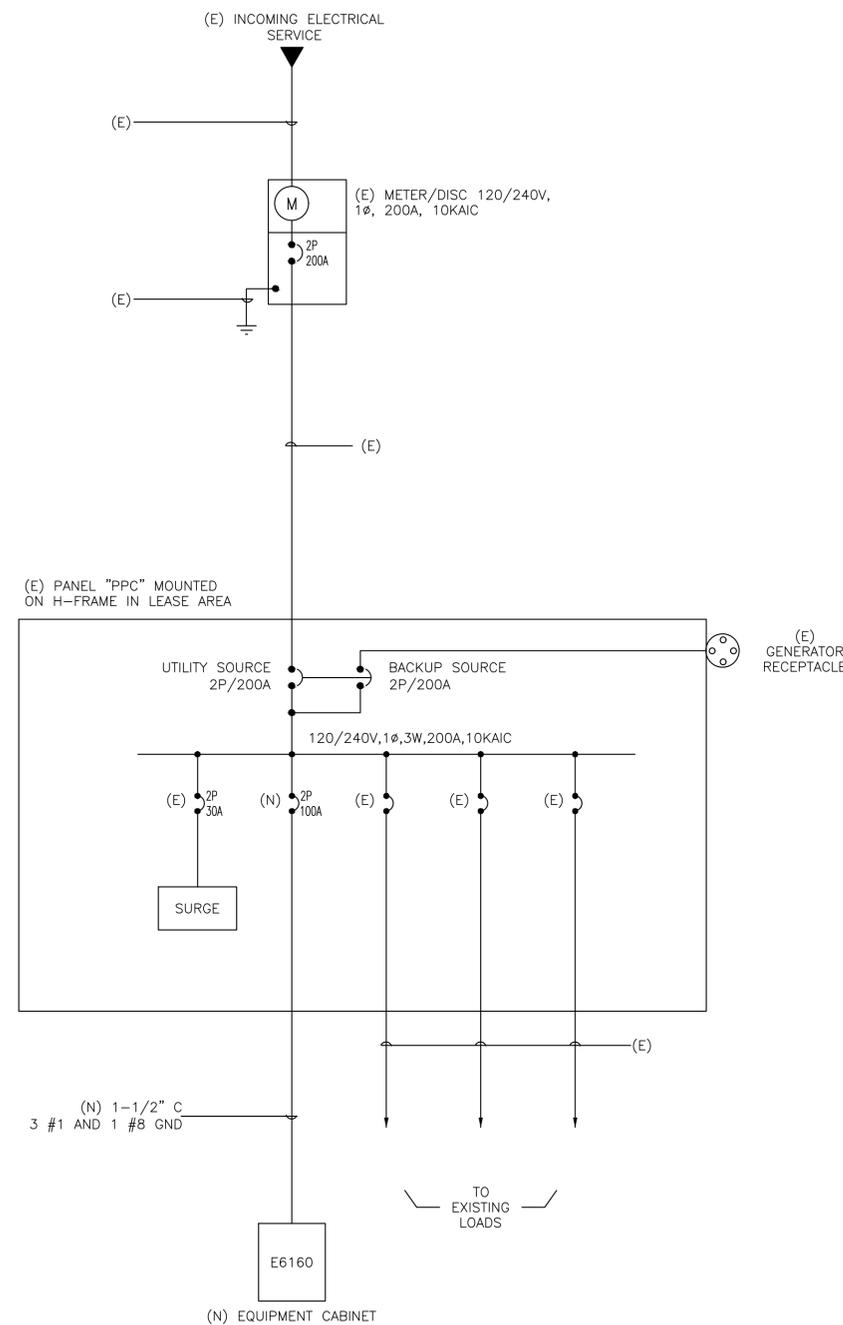
THE TABLE LISTS THE RECOMMENDED FUSE VALUES FOR DIFFERENT AMOUNT OF INSTALLED RECTIFIERS.

Amount of Rectifiers	Input Current (A)	Recommended AC Fuses (A)
1	18	25
2	36	50
3	54	80
4	72	100
5	90	125
6	108	125
7	126	150
8	144	175
9	162	200

ERICSSON 6160 CABINET, TABLE 7 5

ELECTRIC LEGEND:

- MECHANICAL INTERLINK
- METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF



DRAWN BY: BWG
CHECKED BY: ZN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	04/21/21	ISSUED FOR 90% CD REVIEW	BWG
B	05/26/21	REVISED 90% CDS	BWG
C	08/05/21	LL COMMENTS	RGL
D	08/30/21	REVISED RFDS	BWG
E	10/14/21	RELOCATED EQUIPMENT	BWG
F	10/26/21	RELOCATED EQUIPMENT	RGL
O	11/22/21	100% CDS	RGL
1	01/17/22	NEW ELEVATION	JAF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

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 PALO ALTO, CA 94301

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SHEET TITLE
ELECTRICAL SITE PLAN,
PANEL SCHEDULE & 1-LINE

SHEET NUMBER
E-1

ONE LINE DIAGRAM 1