



FA NUMBER: 10085099 / SITE ID: SD0359
LTE 6C/RRH SWAP/5G NR UPGRADE
SITE NAME: ROSECRANS
3276 ROSECRANS ST,
SAN DIEGO, CA 92110
CITY OF SAN DIEGO

LEGAL DESCRIPTION

PARCEL 1:
 LOT 1 OF WHEELER SUBDIVISION, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 5228, FIELD IN THE RECORDER'S OFFICE OF RECORDER OF SAN DIEGO COUNTY, AUGUST 7, 1963.

PARCEL 2:
 LOT 1 IN BLOCK 27 OF MONTEMAR RIDGE NO. 2, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 2261, FIELD IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 23, 1941.

SITE INFORMATION

PROPERTY OWNER: WHEELER FAMILY TRUST
 3223 STERNE ST
 SAN DIEGO, CA 92106

APPLICANT: AT&T MOBILITY
 ADDRESS: 5738 PACIFIC CENTER BLVD.
 SAN DIEGO, CA 92121

SITE ADDRESS: 3276 ROSECRANS ST
 SAN DIEGO, CA 92110

LAT/LONG TYPE: NAD-83
 LATITUDE: 32° 44' 52.0" N (32.7477778)
 LONGITUDE: 117° 12' 24.99984" W (-117.2069444)

GROUND ELEVATION: 49' AMSL
 ZONING JURISDICTION: CITY OF SAN DIEGO
 ZONING CLASSIFICATION: RM-1-1
 CURRENT USE: UNMANNED OUTDOOR TELECOMMUNICATIONS EQUIPMENT
 ASSESSOR'S PARCEL NO.: 450-430-05-00
 PROPOSED USE: UNMANNED OUTDOOR TELECOMMUNICATIONS EQUIPMENT
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY GROUP: S-1
 STRUCTURE HEIGHT: 39'-6"
 STRUCTURE TYPE: BUILDING
 PROJECT VALUATION \$30,000

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



Call Toll Free
1-800-227-2600
 2 Working Days Before You Dig
 UNDERGROUND SERVICE ALERT
 OF SOUTHERN CALIFORNIA

PROJECT TEAM

CLIENT REPRESENTATIVE:
 DEPRATTI, INC.
 13948 CALLE BUENO GANAR
 JAMUL, CA 91935
 CONTACT: JAMO STEPHENSON
 EMAIL: jstephenson@deprattinc.com
 PHONE: (619) 729-4565

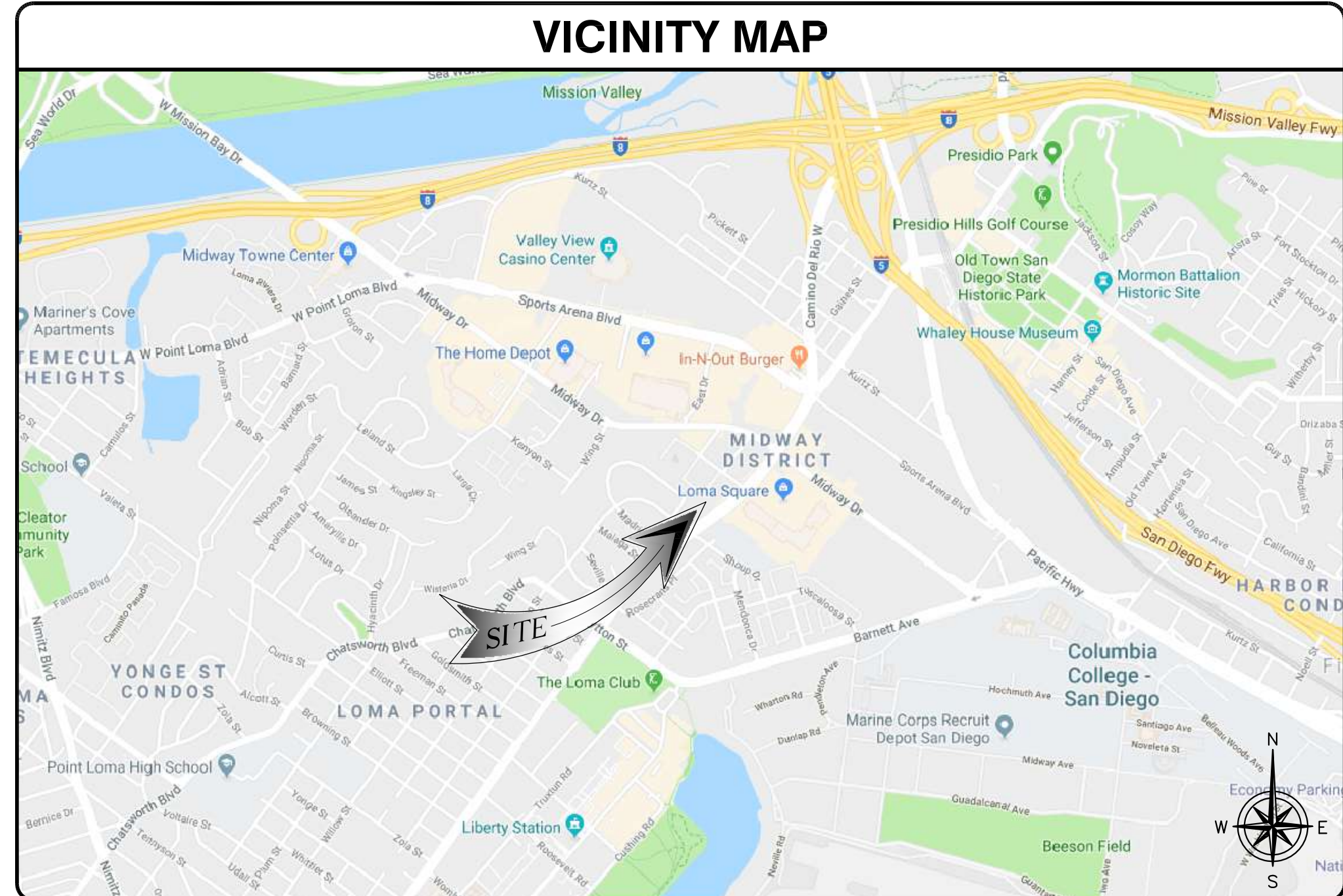
ENGINEER:
 M SQUARED WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE, CA 92673
 CONTACT: MICHAEL MONTELLO
 PHONE: (949) 391-6824
 www.msquaredwireless.com

PLANNING CONTACT:
 DEPRATTI, INC.
 13948 CALLE BUENO GANAR
 JAMUL, CA 91935
 CONTACT: JAMO STEPHENSON
 EMAIL: jstephenson@deprattinc.com
 PHONE: (619) 729-4565

RF ENGINEER:
 AT&T MOBILITY
 5738 PACIFIC CENTER BLVD.
 SAN DIEGO, CA 92121

LEASING CONTACT:
 DEPRATTI, INC.
 13948 CALLE BUENO GANAR
 JAMUL, CA 91935
 CONTACT: CATHY LIM
 EMAIL: clim@deprattinc.com
 PHONE: (858) 688-0955

CONSTRUCTION MANAGER:
 DEPRATTI, INC.
 13948 CALLE BUENO GANAR
 JAMUL, CA 91935
 CONTACT: TIM HENION
 EMAIL: thenion@deprattinc.com
 PHONE: (503) 519-8591



DIRECTIONS

DIRECTIONS FROM SD AT&T OFFICE (5738 PACIFIC CENTER BLVD., SAN DIEGO, CA 92121):

HEAD SOUTHWEST ON PACIFIC CENTER BLVD TOWARD MCKELLAR CT. TURN RIGHT ONTO LUSK BLVD, USE THE RIGHT 2 LANES TO TURN RIGHT ONTO VISTA, SORRENTO PKWY, USE THE LEFT 2 LANES TO TURN LEFT ONTO SORRENTO VALLEY BLVD, USE THE MIDDLE LANE TO TURN RIGHT ONTO ROSELLE ST, USE THE LEFT 2 LANES TO TURN LEFT TO MERGE ONTO I-5 S. MERGE ONTO I-5 S, USE THE RIGHT 2 LANES TO TAKE EXIT 20 TOWARD S ROSECRANS ST, MERGE ONTO CAMINO DEL RIO W, PASS BY DEL TACO (ON THE RIGHT IN 0.2 MI), CONTINUE STRAIGHT ONTO ROSECRANS ST, TURN RIGHT, DESTINATION WILL BE ON THE LEFT

CODE 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.

- CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)
- 2016 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA FIRE CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRICAL CODE
- LOCAL BUILDING CODE

FAA SELF CERTIFICATION

I, *M. Wharton* DO HEREBY CERTIFY THAT THE STRUCTURE(S) OR MODIFICATION TO EXISTING STRUCTURE(S) SHOWN ON THESE PLANS DO NOT REQUIRE FEDERAL AVIATION ADMINISTRATION NOTIFICATION BECAUSE PER SECTION 77.15 (A) OF TITLE 14 OF THE CODE OF FEDERAL REGULATIONS CFR PART 77, NOTIFICATION IS NOT REQUIRED.

NOTE:
 A PRE-CONSTRUCTION INSPECTION IS REQUIRED DUE TO THE HEIGHT OF THE PROPOSED STRUCTURE IN RELATION TO THE FAA PART 77 NOTIFICATION SURFACE REQUIREMENTS. THE PRE-CONSTRUCTION INSPECTION MUST BE SCHEDULED AND CLEARED BY THE FIELD INSPECTOR BEFORE ANY SUBSEQUENT INSPECTIONS CAN BE SCHEDULED. CALL (858) 581-7111 TO SCHEDULE THE PRE-CONSTRUCTION INSPECTION. CONTACT THE INSPECTION SERVICES OFFICE AT (858) 492-5070. IF YOU HAVE ANY QUESTIONS PERTAINING TO THE PRE-CONSTRUCTION INSPECTION.

SCOPE OF WORK

AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- RE-ADJUST ALL AT&T PANEL ANTENNAS TO NEW WALL MOUNTS TO MEET REQUIRED 12" OFFSET FROM FACED TO ANTENNAS FACE.
- REMOVE (6) EXISTING AT&T PANEL ANTENNAS
- REMOVE (3) EXISTING AT&T RRU12 + A2 @ ANTENNA LEVEL
- REMOVE (12) EXISTING AT&T TMAS @ ANTENNA LEVEL
- REMOVE (1) EXISTING AT&T POWER PLANT @ GROUND EQUIPMENT LEVEL
- REMOVE (2) EXISTING AT&T BATTERY RACKS @ GROUND EQUIPMENT LEVEL
- REMOVE (12) EXISTING AT&T WALL MOUNTS
- INSTALL (6) NEW AT&T PANEL ANTENNAS W/ SIDE SKIRTS & CHIN STRAPS
- INSTALL (12) NEW AT&T WALL MOUNT ASSEMBLIES
- INSTALL (3) NEW AT&T RRU12 + A2 @ ANTENNA LEVEL
- INSTALL (3) NEW AT&T RRU12 + B14 @ ANTENNA LEVEL
- INSTALL (3) NEW AT&T RRU12 + B66 @ ANTENNA LEVEL
- INSTALL (1) NEW AT&T 6630 BASEBAND UNIT INSIDE (E) RACK @ GROUND EQUIPMENT LEVEL
- INSTALL (1) NEW AT&T 7100 POWER PLANT @ GROUND EQUIPMENT LEVEL
- INSTALL (1) NEW AT&T FIF BATTERY RACK @ GROUND EQUIPMENT LEVEL
- INSTALL (9) NEW AT&T 2KW RECTIFIERS INSIDE (N) POWER PLANT @ GROUND EQUIPMENT LEVEL
- INSTALL (2) NEW AT&T 1.5KW RECTIFIERS INSIDE (N) POWER PLANT @ GROUND EQUIPMENT LEVEL
- INSTALL (20) NEW AT&T M12V155FT BATTERIES INSIDE (N) FIF BATTERY RACK @ GROUND EQUIPMENT LEVEL

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T-4	PHOTOSIMULATIONS	E-3 ELECTRICAL DETAILS
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APPROVALS

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

AT&T RF ENGINEER: _____ DATE: _____

AT&T OPERATIONS: _____ DATE: _____

SITE ACQUISITION: _____ DATE: _____

CONSTRUCTION MANAGER: _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

ZONING: _____ DATE: _____

PROJECT MANAGER: _____ DATE: _____

DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 3/4"=1'-0" AND HALF SIZE AT 1/4"=1'-0". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.



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A	10/19/2018	90% CD'S FOR REVIEW	DAM



DATE SIGNED: 08/07/2019

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TITLE SHEET

T-1



APPLICANT



PLANNING

13948 CALLE BUENO GANAR
JAMUL, CA 91935



ENGINEER

1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

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SHEET TITLE

LETTER OF
AUTHORIZATION
(LOA)

SHEET NUMBER

T-2

December 19, 2018

VIA FEDERAL EXPRESS

Ms. Geraldine Smith Wheeler
3223 Sterne Street
San Diego, CA 92106

RE: AT&T Mobility Letter of Authorization for Wireless Facility Modification
Site Address: 3276 Rosecrans Street, Suite 203, San Diego (Site SD0359 Rosecrans #10085099)

Dear Ms. Wheeler:

We represent AT&T Mobility in the development of wireless communication facilities in the San Diego area. AT&T and the Wheeler Trusts ("Lessor") are parties to a License Agreement dated February 2, 1989, as amended (the "Lease") for your property referenced above, upon which AT&T operates a wireless communication facility.

As a courtesy, we would like to inform you that AT&T will be modifying the existing site. Pursuant to the Lease, AT&T may modify the Facility at any time during the term of the Lease. AT&T needs to replace and/or upgrade its facilities by installing the equipment as depicted in the attached drawings dated 12/17/2018. All equipment will be installed within the existing Premises. The proposed revisions to the antenna straps and skirting should result in a more consistent, uniform appearance.

Please indicate your acknowledgment of the AT&T modifications by signing below. Also, please sign the attached Letter of Authorization, allowing us to submit any required permits for the modifications.

We would appreciate your returning the signed documents to us at your earliest convenience via e-mail (clim@deprattiinc.com) and the originals in the enclosed, self-addressed and postage-paid envelope. If you have any questions, please do not hesitate to contact me.

Thank you for your cooperation and attention to this matter.

Sincerely,

Cathy Lim
DePratti, Inc., agent for AT&T Mobility
(858) 688-0955
clim@deprattiinc.com

Acknowledgment:

Owner's Signature

Geraldine Smith Wheeler 619-222-0149 12/21/18
Print Name, Contact Phone Number and Date



SD0359

ROSECRANS

3276 ROSECRANS ST SAN DIEGO, CA 92110



EXISTING



PROPOSED

VIEW 2 : LOOKING NORTH

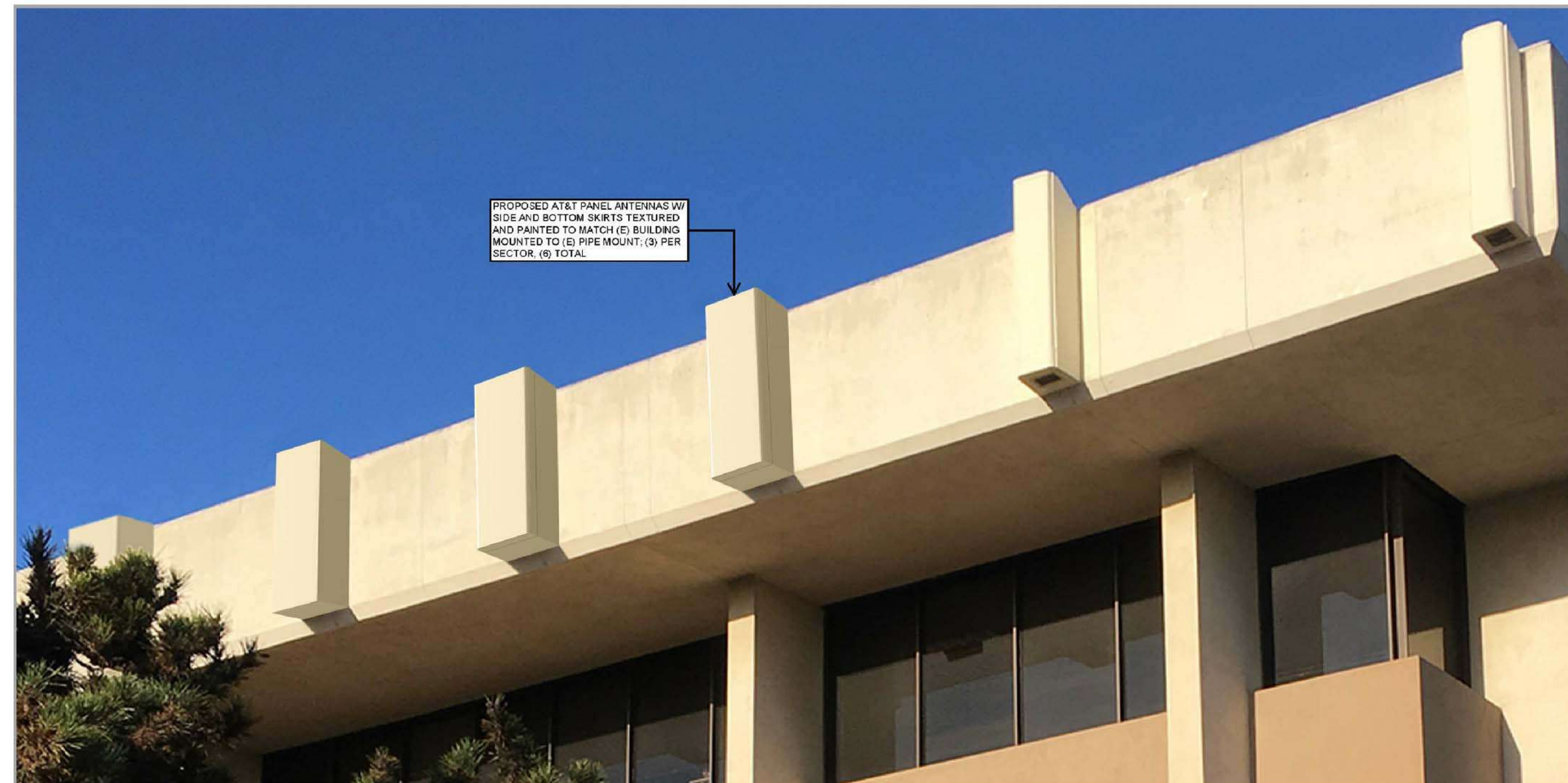
PROPOSED AT&T PANEL ANTENNAS W/ SIDE AND BOTTOM SKIRTS TEXTURED AND PAINTED TO MATCH (E) BUILDING MOUNTED TO (B) PIPE MOUNT, (3) PER SECTOR, (6) TOTAL



SD0359

ROSECRANS

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PROPOSED

VIEW 2 : CLOSE-UP

PROPOSED AT&T PANEL ANTENNAS W/ SIDE AND BOTTOM SKIRTS TEXTURED AND PAINTED TO MATCH (E) BUILDING MOUNTED TO (B) PIPE MOUNT, (3) PER SECTOR, (6) TOTAL

APPLICANT				
PLANNING	<p>13948 CALLE BUENO GANAR JAMUL, CA 91935</p>			
ENGINEER	<p>1387 CALLE AVANZADO SAN CLEMENTE CA 92673 (949) 391-6824</p>			
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SHEET TITLE	PHOTOSIMULATIONS			
SHEET NUMBER	T-3			



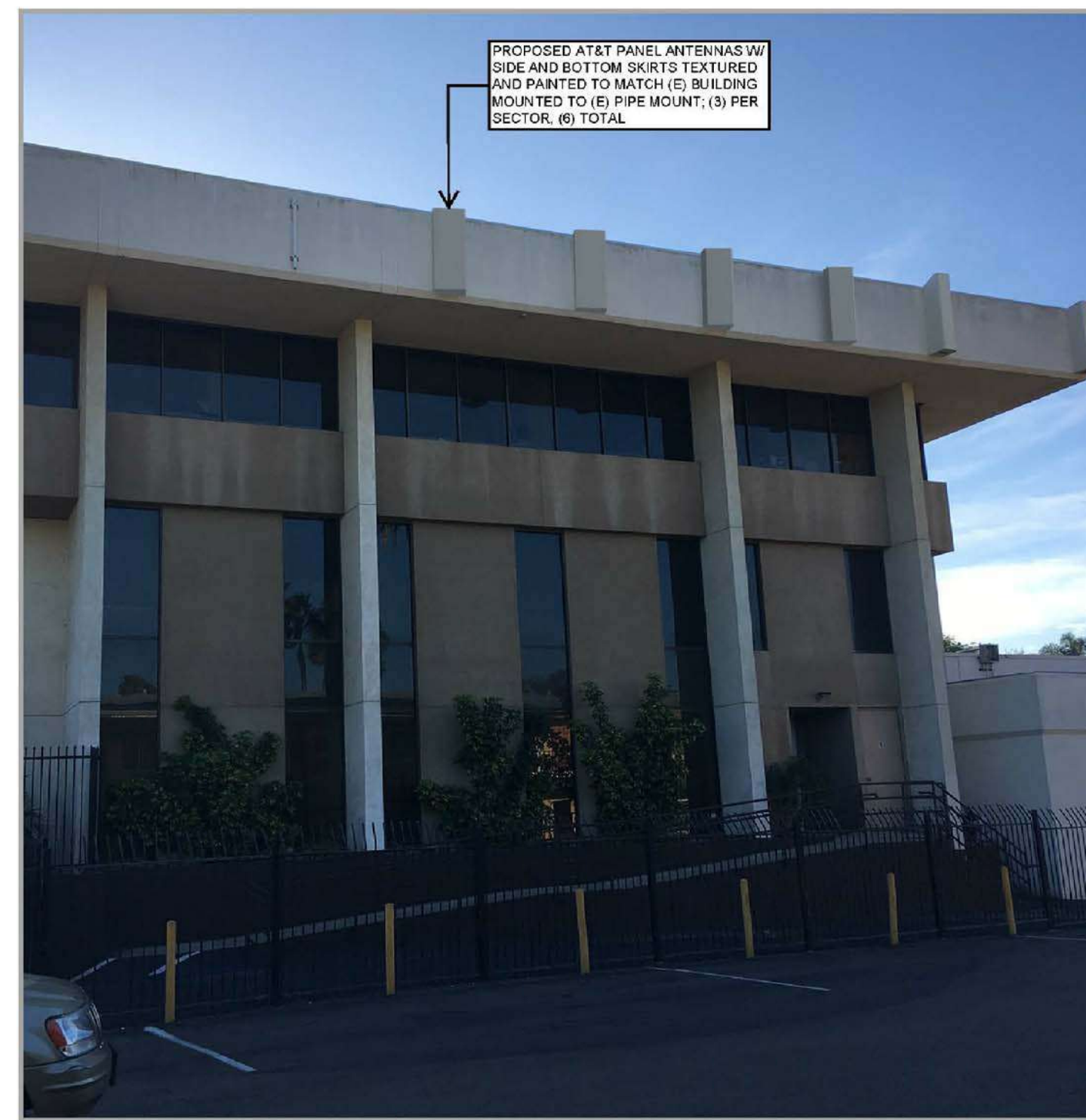
SD0359

ROSECRANS

3276 ROSECRANS ST SAN DIEGO, CA 92110



EXISTING



PROPOSED

PROPOSED AT&T PANEL ANTENNAS W/ SIDE AND BOTTOM SKIRTS TEXTURED AND PAINTED TO MATCH (E) BUILDING MOUNTED TO (E) PIPE MOUNT, (3) PER SECTOR, (6) TOTAL

VIEW 1 : LOOKING SOUTHWEST

APPLICANT



PLANNING



ENGINEER



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SHEET TITLE

PHOTOSIMULATIONS

SHEET NUMBER

T-4

GENERAL CONSTRUCTION NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR – GENERAL CONTRACTOR
SUBCONTRACTOR – CONTRACTOR (CONSTRUCTION)
OWNER – AT&T
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAT&T, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOWN DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO THE BEGINNING CONSTRUCTION.
- SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING & EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR)
- NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
- NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
C – NATIONAL FIRE CODES
A. UL – UNDERWRITERS' LABORATORIES
B. NEC – NATIONAL ELECTRICAL CODE
C. NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
E. SBC – STANDARD BUILDING CODE
- DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTION, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC.. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY AT&T.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATOR INSPECTION AND APPROVAL BY 'CONSTRUCTION MANAGER'.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS FOR EXCAVATION, AND BACKFILLING.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE PROPOSED AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IECE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED – NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 – 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS – 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITZ ZINC' OR 'GOLD GALV'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2" DEPTH.
- CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
- ALL BOLTS SHALL BE STAINLESS STEEL

GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "T") WITH 1" HIGH LETTERS.
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.



SITE NUMBER: SD0359
FA NUMBER: 10085099
ROSECRANS
3276 ROSECRANS ST
SAN DIEGO, CA 92110
CITY OF SAN DIEGO
BUILDING

REV	DATE	DESCRIPTION	BY
Δ	08/07/2019	100% CD'S REVISED-ELECT	BM
Δ	05/17/2019	100% CD'S REVISED-JX	DGM
Δ	04/25/2019	100% CD'S REVISED-JX	TB
Δ	04/03/2019	100% CD'S REVISED-JX	TB
3	02/20/2019	100% CD'S REVISED-JX	BM
2	01/18/2019	100% CD'S REVISED	DAM
1	01/03/2019	100% CD'S REV-SIMS/LOA	BM
0	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
B	11/21/2018	95% CD'S FOR REVIEW	DAM
A	10/19/2018	90% CD'S FOR REVIEW	DAM



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

GENERAL NOTES

GN-1

SITE WORK & DRAINAGE

PART 1 – GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION—CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- C. KEEP SITE FREE OF ALL PONDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

- PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 – PRODUCTS

- 2.1 SUITABLE BACKFILL: ASTM D2321 (CLASS I, II, III OR IVA) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.2 NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS III, IVA OR IVB) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.3 POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS IA, IB OR II) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.4 SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850-95. FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
- 2.5 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
- 2.6 COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940.
- 2.7 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45), MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.
- 2.8 GEOTEXTILE FABRIC: MIRAFI 500X OR APPROVED EQUAL.
- 2.9 PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6 INCHES WIDE WITH A MINIMUM THICKNESS OF 0.004 INCH. TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FOIL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

PART 2 – EXECUTION

3.1 GENERAL:

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ANY TIME.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.

- 1. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- 2. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
- 3. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- D. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- E. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- F. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- 1. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- 2. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- 3. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- B. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- B. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 AGGREGATE ACCESS ROAD:

- A. CLEAR, GRUB, STRIP AND EXCAVATE FOR THE ACCESS ROAD TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. SCARIFY TO A DEPTH OF 6 INCHES AND PROOF-ROLL. ALL HOLES, RUTS, SOFT PLACES AND OTHER DEFECTS SHALL BE CORRECTED.
- B. THE ENTIRE SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 1557.
- C. AFTER PREPARATION OF THE SUBGRADE IS COMPLETE THE GEOTEXTILE FABRIC (MIRAFI 500X) SHALL BE INSTALLED TO THE LIMITS INDICATED ON THE DRAWINGS BY ROLLING THE FABRIC OUT LONGITUDINALLY ALONG THE ROADWAY. THE FABRIC SHALL NOT BE DRAGGED ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, ROLLING OUT AS SMOOTHLY AS POSSIBLE.
- 1. OVERLAPS PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WIDTH (I.E. WITHIN THE SHOULDER WIDTH) ONLY. NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3 FEET WIDE.
- 2. TRANSVERSE (PERPENDICULAR TO THE ROADWAY) OVERLAPS AT THE END OF A ROLL SHALL OVERLAP IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3 FEET.
- 3. ALL OVERLAPS SHALL BE PINNED WITH STAPLES OR NAILS A MINIMUM OF 10 INCHES LONG TO INSURE POSITIONING DURING PLACEMENT OF AGGREGATE. PIN LONGITUDINAL SEAMS AT 25 FOOT CENTERS AND TRANSVERSE SEAMS EVERY 5 FEET.
- D. THE AGGREGATE BASE AND SURFACE COURSES SHALL BE CONSTRUCTED IN LAYERS NOT MORE THAN 4 INCH (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC SHALL BE END-DUMPED ON THE FABRIC FROM THE FREE END OF THE FABRIC OR OVER PREVIOUSLY PLACED AGGREGATE. THE FIRST LIFT SHALL BE BLADED DOWN TO A THICKNESS OF 8 INCHES PRIOR TO COMPACTION. AT NO TIME SHALL EQUIPMENT, EITHER TRANSPORTING THE AGGREGATE OR GRADING THE AGGREGATE, BE PERMITTED ON THE ROADWAY WITH LESS THAN 4 INCHES OF MATERIAL COVERING THE FABRIC.
- E. THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE PROCTOR TEST, ASTM D 1557 WITH A TAMPING ROLLER, OR WITH A PNEUMATIC-TIRED ROLLER, OR WITH A VIBRATORY MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLLING WITH A THREE-WHEEL OR TANDEM ROLLER.

3.6 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 4 INCHES OF 1/2" - 3/4" CRUSHED STONE ON TOP SOIL STABILIZER FABRIC.
- D. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

3.7 ASPHALT PAVING ROAD:

- A. SECTION 600 – KDOT FLEXIBLE PAVEMENT. (UPDATE PER LOCAL DOT)
- B. SECTION 403 – MODOT ASPHALT CONCRETE PAVEMENT.

ENVIRONMENTAL NOTES

- 1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
- 2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
- 3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- 4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- 6. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- 7. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- 8. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
- 9. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES

STRUCTURAL CONCRETE NOTES

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-10, ACI 318-08 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- 2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH $f_c = 2,500$ PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
- 3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH.....3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:

- #6 AND LARGER.....2 IN.
- #5 AND SMALLER & WWF1-1/2 IN.




CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

- SLAB AND WALL3/4 IN.
- BEAMS AND COLUMNS.....1-1/2 IN.

- 5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- 6. HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
- 7. USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICBO & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

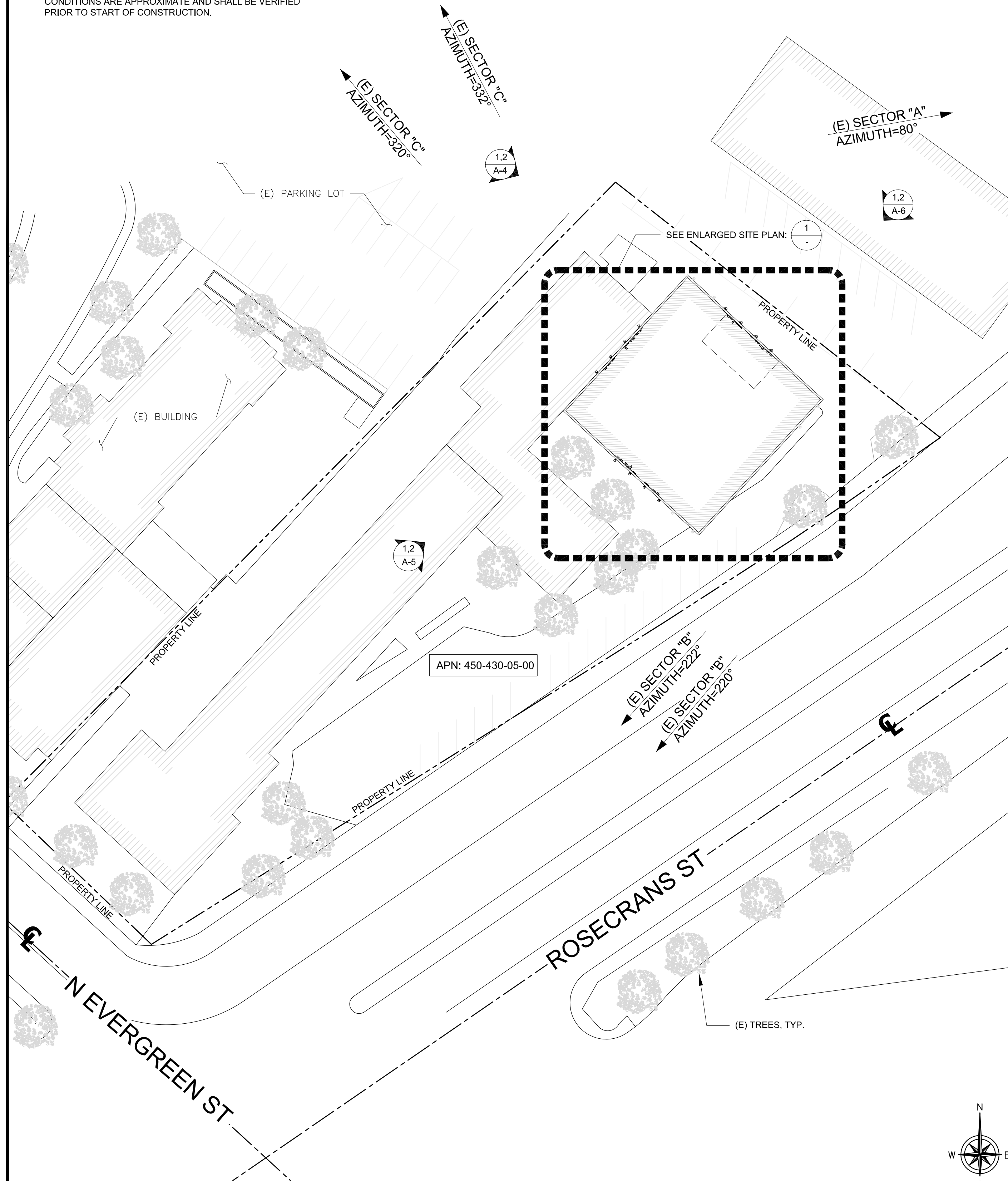
STRUCTURAL STEEL NOTES

- 1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW:
W-SHAPES: ASTM A992, 50 KSI
ANGLES, BARS CHANNELS: ASTM A36, 36 KSI
HSS SECTIONS: ASTM 500, 46 KSI
PIPE SECTIONS: ASTM A53-E, 35 KSI
- 2. ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
- 3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC.WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
- 4. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE 3/4"Ø CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- 5. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
- 6. FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

APPLICANT																																													
PLANNING	 <p>13948 CALLE BUENO GANAR JAMUL, CA 91935</p>																																												
ENGINEER	 <p>1387 CALLE AVANZADO SAN CLEMENTE CA 92673 (949) 391-6624</p>																																												
SITE INFORMATION	<p>SITE NUMBER: <u>SD0359</u> FA NUMBER: <u>10085099</u> ROSECRANS 3276 ROSECRANS ST SAN DIEGO, CA 92110 CITY OF SAN DIEGO BUILDING</p>																																												
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- NOTES:**
1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
 2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE PROPOSED INSTALLATION.
 3. THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

DISCLAIMER:
THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON THE JURISDICTIONS WEBSITE. M SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED ON THE JURISDICTIONS WEBSITE AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.

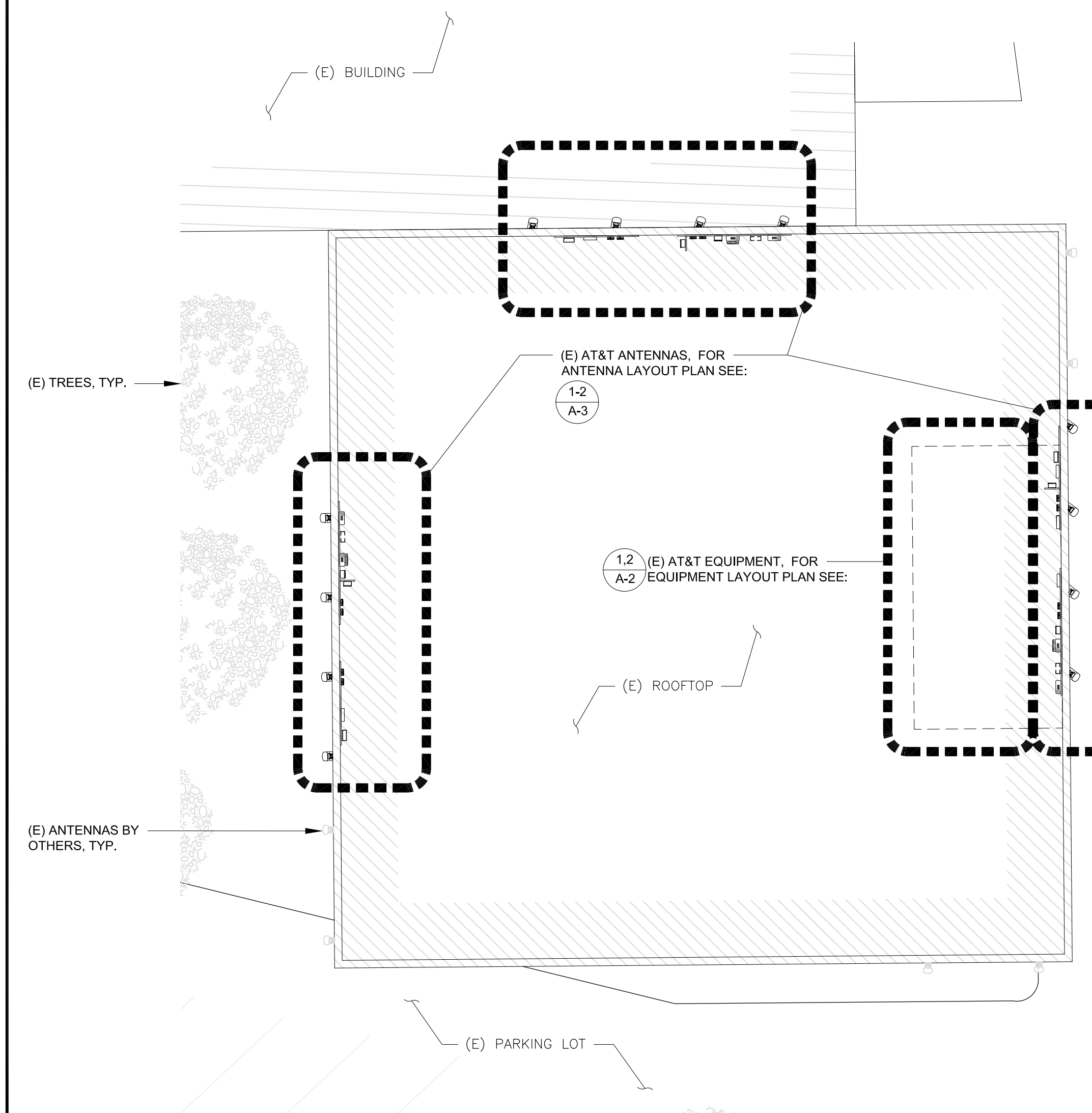


OVERALL SITE PLAN

24"x36" SCALE: 1" = 30'-0"
11"x17" SCALE: 1" = 60'-0"

2

ENLARGED SITE PLAN

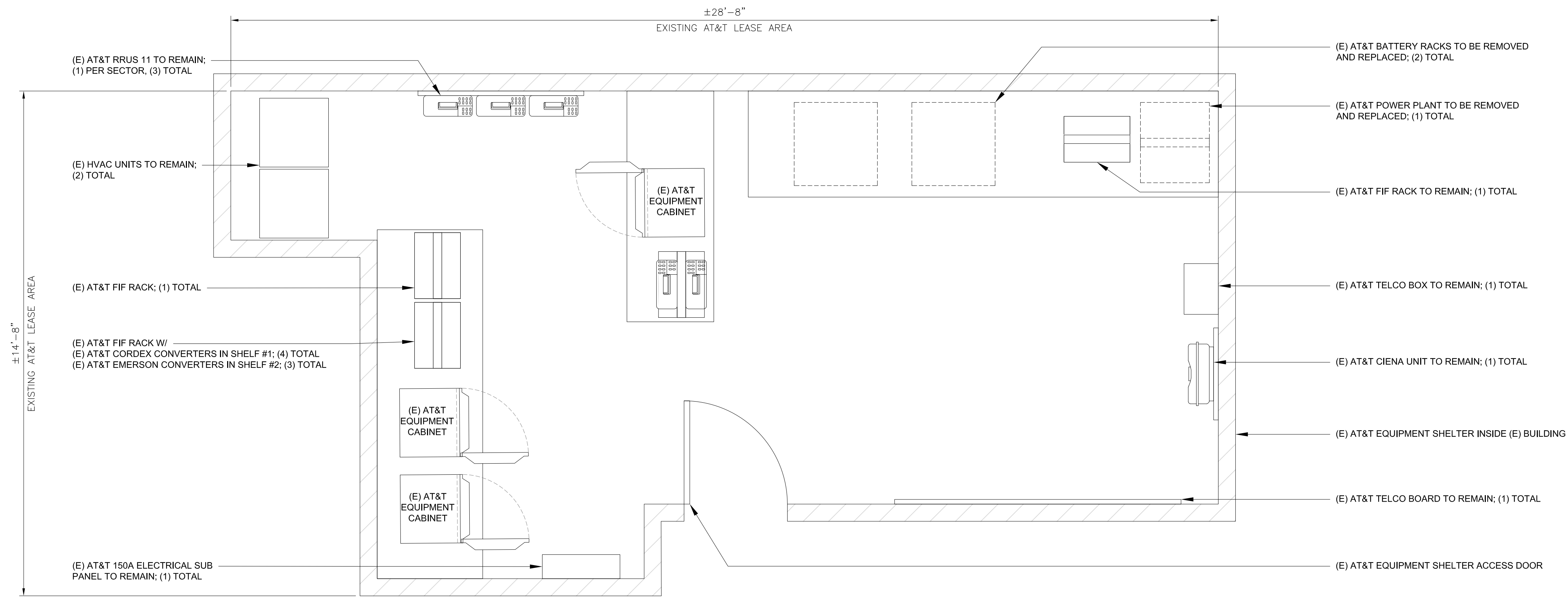


24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"

1

LEGEND	
	PROPERTY LINE - SUBJECT PARCEL
	EXISTING SETBACK LINE
	EXISTING FENCE LINE
	EXISTING ROAD
	EXISTING BUILDING
(E)	EXISTING
(N)	NEW

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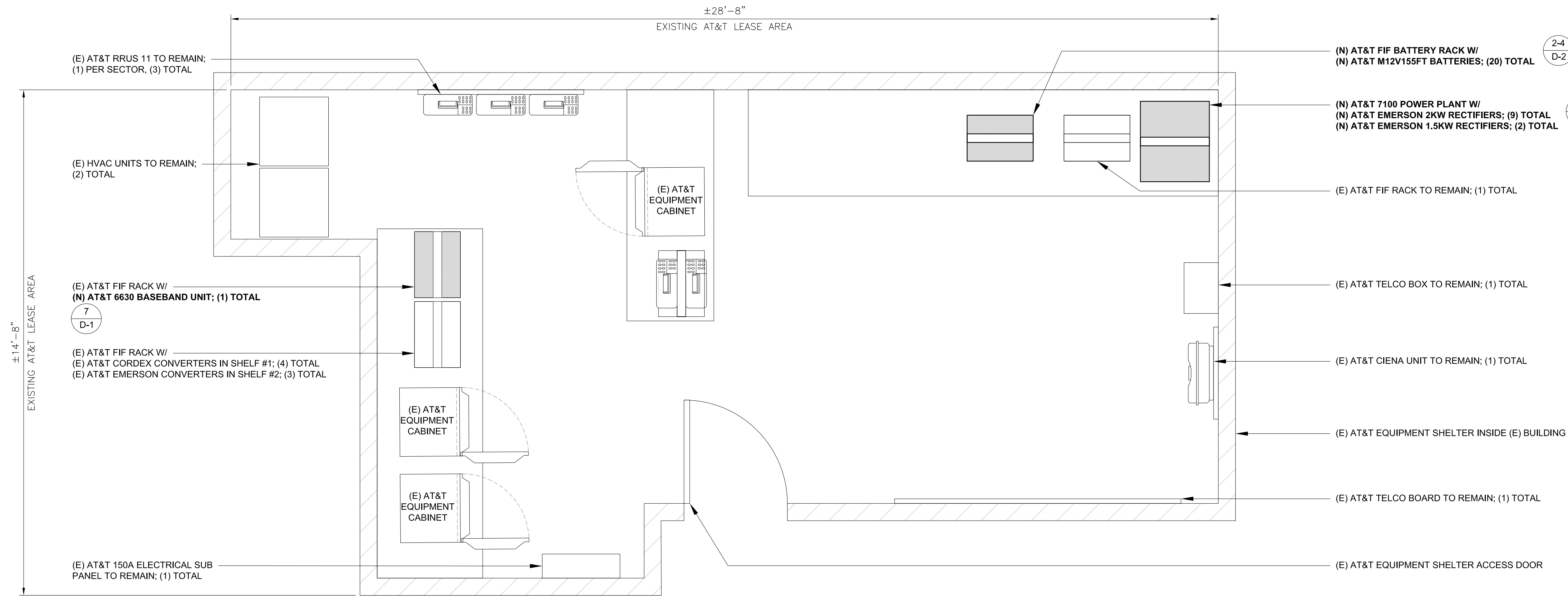
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 FA NUMBER: 10085099
 ROSECRANS
 3276 ROSECRANS ST
 SAN DIEGO, CA 92110
 CITY OF SAN DIEGO
 BUILDING

EXISTING EQUIPMENT LAYOUT PLAN

24"x36" SCALE: 1/2" = 1'-0"
 11"x17" SCALE: 1/4" = 1'-0"
 1

BATTERY RACK (20) GNB M12V155FT AT 118 LBS PER BATTERY 20 X 118 LBS = 2,360LBS	
TOTAL BATTERY WEIGHT = 2,360 LBS	
PER MATERIAL SAFETY DATA SHEET ELECTROLYTE (SULFURIC ACID) = 2.17 GAL PER BATTERY	
BY GAL PER BATTERY	20 X 2.17 GAL
TOTAL GALLONS = 43.4 GALLONS OF SULFURIC ACID	

- SUMMARY:
- 43.4 GALLONS < 50 GALLONS
 - THIS SITE IS NOT REQUIRED TO COMPLY WITH THE REQUIREMENTS SET FORTH IN SECTION 608 OF THE CALIFORNIA FIRE CODE
 - 43.4 GALLONS < 55 GALLONS
 - COUNTY OF SAN DIEGO HAZMAT BUSINESS PLAN IS NOT REQUIRED



REV	DATE	DESCRIPTION	BY
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NEW EQUIPMENT LAYOUT PLAN

24"x36" SCALE: 1/2" = 1'-0"
 11"x17" SCALE: 1/4" = 1'-0"
 2

EQUIPMENT LAYOUT PLAN

A-2

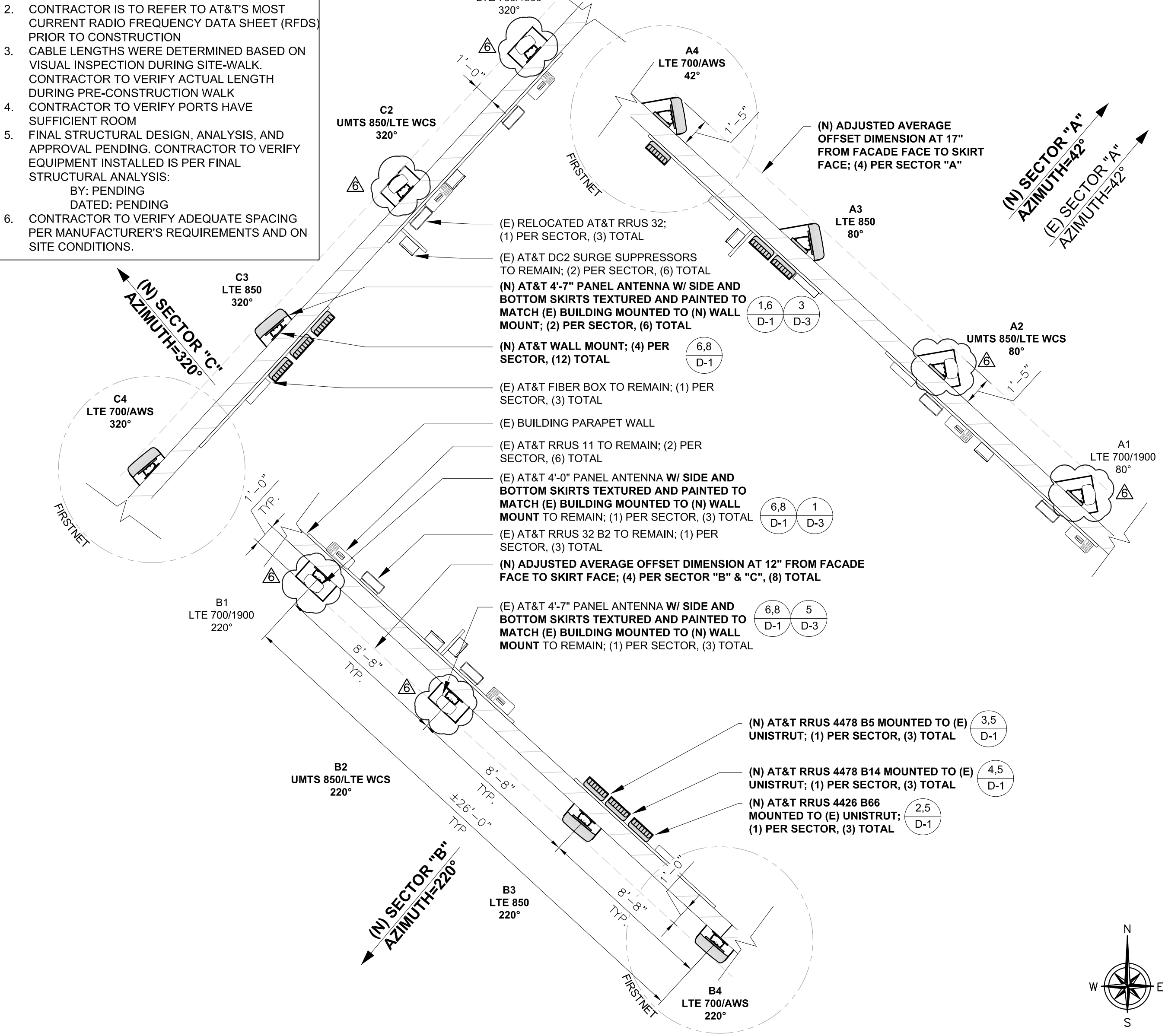
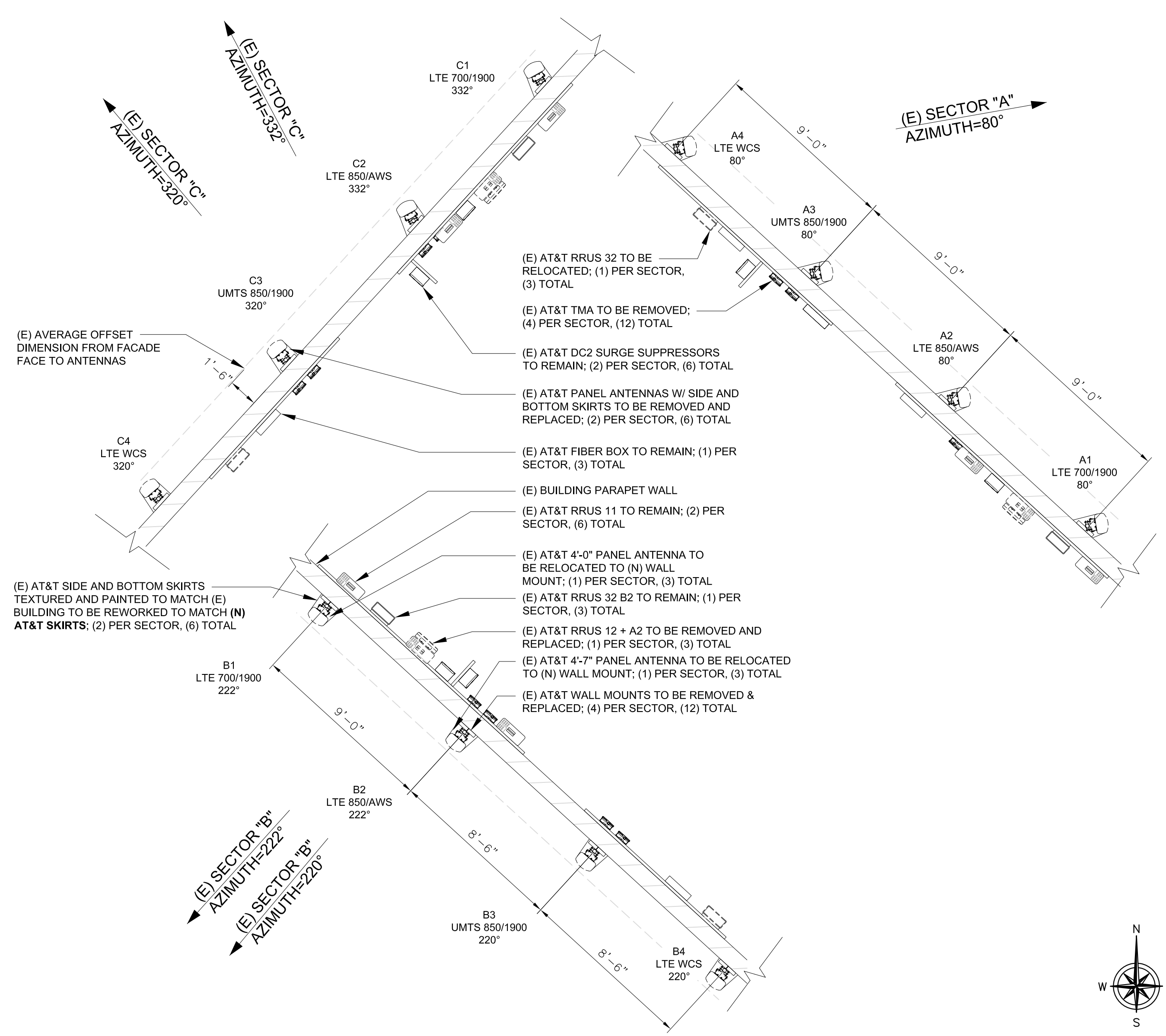
	EXISTING OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)						EXISTING REMOTE RADIO UNITS, TOWER MOUNTED AMPLIFIERS AND ANTENNA FILTERS (VERIFY WITH CURRENT RFDS)				
	ANTENNA	EXISTING TECHNOLOGY	ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	TRANSMISSION LINE	EXISTING RRUS MODEL	RRUS COUNT	EXISTING TMA/ ANTENNA FILTER	TMA/ FILTER COUNT	
											EXISTING
ALPHA SECTOR	A1	LTE 700/1900	CCI HPA-65R-BUU-H4B (48X14.8X9)	80°	36'-11"	±42'/100'	(E) FIBER	(E) RRUS 11, (E) RRUS 32 B2	2	KRY 112 75/1	2
	A2	LTE 850/AWS	KATHREIN 80010864 (55.2X14.8X6.7)	80°	36'-11"	±42'	(E) FIBER/COAX	(E) RRUS 11, *(E) RRUS 12 + A2	2	KRY 112 75/1	1
	A3	UMTS 850/1900	KMW AM-X-CD-14-65 (48X11.8X5.9)	80°	36'-11"	±42'/100'	(E) COAX	-	-	ERICSSON TMA	1
	A4	LTE WCS	KATHREIN 80010864 (55.2X14.8X6.7)	80°	36'-11"	±8'	(E) FIBER	*(E) RRUS 32	1	-	-
BETA SECTOR	B1	LTE 700/1900	CCI HPA-65-BUU-H6B (48X14.8X9)	222°	36'-11"	±42'/100'	(E) FIBER	(E) RRUS 11, (E) RRUS 32 B2	2	KRY 112 75/1	2
	B2	LTE 850/AWS	KATHREIN 80010864 (55.2X14.8X6.7)	222°	36'-11"	±42'	(E) FIBER/COAX	(E) RRUS 11, *(E) RRUS 12 + A2	2	KRY 112 75/1	1
	B3	UMTS 850/1900	KMW AM-X-CD-14-65 (48X11.8X5.9)	220°	36'-11"	±42'/100'	(E) COAX	-	-	ERICSSON TMA	1
	B4	LTE WCS	KATHREIN 80010864 (55.2X14.8X6.7)	220°	36'-11"	±8'	(E) FIBER	*(E) RRUS 32	1	-	-
GAMMA SECTOR	C1	LTE 700/1900	CCI HPA-65-BUU-H4B (48X14.8X9)	332°	36'-11"	±42'/100'	(E) FIBER	(E) RRUS 11, (E) RRUS 32 B2	2	KRY 112 75/1	2
	C2	LTE 850/AWS	KATHREIN 80010864 (55.2X14.8X6.7)	332°	36'-11"	±42'	(E) FIBER/COAX	(E) RRUS 11, *(E) RRUS 12 + A2	2	KRY 112 75/1	1
	C3	UMTS 850/1900	KMW AM-X-CD-14-65 (48X11.8X5.9)	320°	36'-11"	±42'/100'	(E) COAX	-	-	ERICSSON TMA	1
	C4	LTE WCS	KATHREIN 80010864 (55.2X14.8X6.7)	320°	36'-11"	±8'	(E) FIBER	*(E) RRUS 32	1	-	-

NOTE:
 1. ANTENNAS BY OTHERS NOT SHOWN FOR CLARITY.
 * DENOTES RRUS TO BE RELOCATED FROM POSITION 4 TO POSITION 2
 **DENOTES RRUS TO BE REMOVED

	NEW/FINAL OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)						NEW/FINAL REMOTE RADIO UNITS, TOWER MOUNTED AMPLIFIERS AND ANTENNA FILTERS (VERIFY WITH CURRENT RFDS)				
	ANTENNA	FINAL TECHNOLOGY	ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	TRANSMISSION LINE	NEW/FINAL RRUS MODEL	RRUS COUNT	NEW/FINAL TMA & ANTENNA FILTER	TMA/ FILTER COUNT	
											EXISTING
ALPHA SECTOR	A1	LTE 700/1900	CCI HPA-65R-BUU-H4B (48X14.8X9)	80°	80°	36'-11"	±42'/100'	(E) FIBER	(E) RRUS 11, (E) RRUS 32 B2	2	-
	A2	UMTS 850/LTE WCS	KATHREIN 80010864 (55.2X14.8X6.7)	80°	80°	36'-11"	±42'	(E) FIBER/COAX	(E) RRUS 11, *(E) RRUS 32	2	-
	A3	LTE 850	KMW AM-X-CD-14-65 (48X11.8X5.9)	80°	80°	36'-11"	±42'/100'	(E) COAX	(N) RRUS 4478 B5	1	-
	A4	LTE 700/AWS	KATHREIN 80010864 (55.2X14.8X6.7)	80°	80°	36'-11"	±8'	(E) FIBER	(N) RRUS 4478 B14, (N) RRUS 4426 B66	2	-
BETA SECTOR	B1	LTE 700/1900	CCI HPA-65-BUU-H6B (48X14.8X9)	222°	220°	36'-11"	±42'/100'	(E) FIBER	(E) RRUS 11, (E) RRUS 32 B2	2	-
	B2	UMTS 850/LTE WCS	KATHREIN 80010864 (55.2X14.8X6.7)	222°	220°	36'-11"	±42'	(E) FIBER/COAX	(E) RRUS 11, *(E) RRUS 32	2	-
	B3	LTE 850	KMW AM-X-CD-14-65 (48X11.8X5.9)	220°	220°	36'-11"	±42'/100'	(E) COAX	(N) RRUS 4478 B5	1	-
	B4	LTE 700/AWS	KATHREIN 80010864 (55.2X14.8X6.7)	220°	220°	36'-11"	±8'	(E) FIBER	(N) RRUS 4478 B14, (N) RRUS 4426 B66	2	-
GAMMA SECTOR	C1	LTE 700/1900	CCI HPA-65R-BUU-H4B (48X14.8X9)	332°	320°	36'-11"	±42'/100'	(E) FIBER	(E) RRUS 11, (E) RRUS 32 B2	2	-
	C2	UMTS 850/LTE WCS	KATHREIN 80010864 (55.2X14.8X6.7)	332°	320°	36'-11"	±42'	(E) FIBER/COAX	(E) RRUS 11, *(E) RRUS 32	2	-
	C3	LTE 850	KMW AM-X-CD-14-65 (48X11.8X5.9)	320°	320°	36'-11"	±42'/100'	(E) COAX	(N) RRUS 4478 B5	1	-
	C4	LTE 700/AWS	KATHREIN 80010864 (55.2X14.8X6.7)	320°	320°	36'-11"	±8'	(E) FIBER	(N) RRUS 4478 B14, (N) RRUS 4426 B66	2	-

NOTE:
 1. ANTENNAS BY OTHERS NOT SHOWN FOR CLARITY.
 2. ALL EXISTING AND NEW ANTENNAS ARE TO HAVE THE SAME VISUALLY AESTHETIC APPEARANCE TO THE PUBLIC.
 * DENOTES RRUS RELOCATED FROM POSITION 4 TO POSITION 2

NOTES TO CONTRACTOR:
 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE GENERAL EQUIPMENT FIELD CONDITIONS AS SHOWN ON THESE PLANS. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CARRIER, ARCHITECT/ENGINEER, AND ANY OTHERS LISTED ON T-1 PROJECT TEAM CONTACTS PROVIDED.
 2. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
 3. CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
 4. CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.
 5. FINAL STRUCTURAL DESIGN, ANALYSIS, AND APPROVAL PENDING. CONTRACTOR TO VERIFY EQUIPMENT INSTALLED IS PER FINAL STRUCTURAL ANALYSIS:
 BY: PENDING
 DATED: PENDING
 6. CONTRACTOR TO VERIFY ADEQUATE SPACING PER MANUFACTURER'S REQUIREMENTS AND ON SITE CONDITIONS.



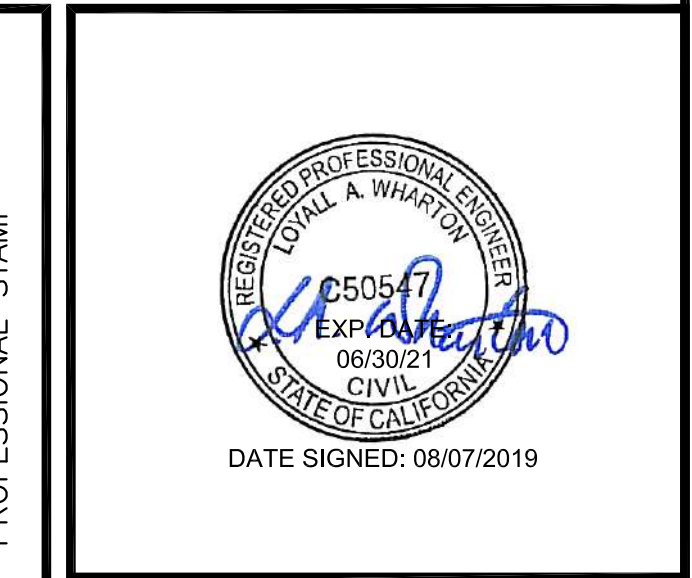
EXISTING ANTENNA LAYOUT 24"x36" SCALE: 1/4" = 1'-0" 11"x17" SCALE: 1/8" = 1'-0"

NEW ANTENNA LAYOUT 24"x36" SCALE: 1/4" = 1'-0" 11"x17" SCALE: 1/8" = 1'-0"



SITE NUMBER: SD0359
 FA NUMBER: 10085099
 ROSECRANS
 3276 ROSECRANS ST
 SAN DIEGO, CA 92110
 CITY OF SAN DIEGO
 BUILDING

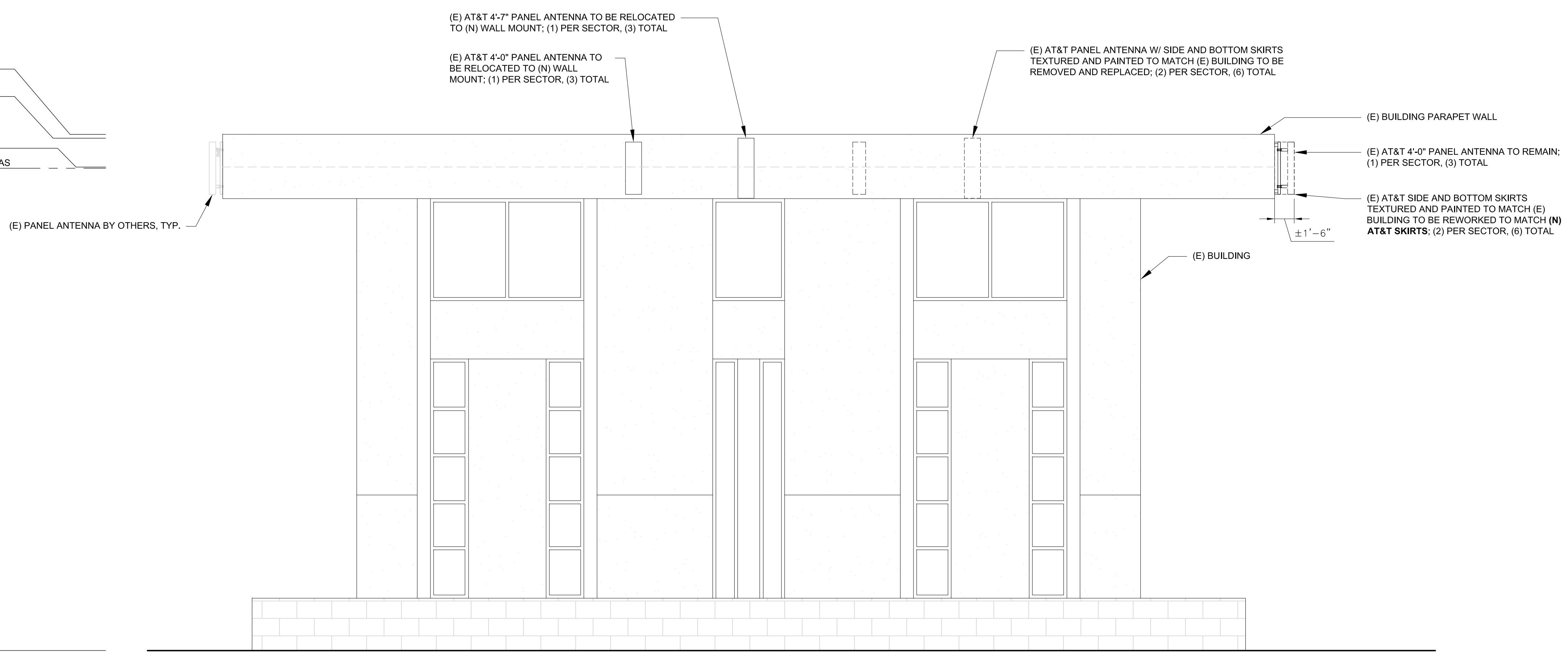
REV	DATE	DESCRIPTION	BY
1	08/07/2019	100% CD'S REVISED-ELECT	BM
2	05/17/2019	100% CD'S REVISED-JX	DGM
3	04/25/2019	100% CD'S REVISED-JX	TB
4	04/03/2019	100% CD'S REVISED-JX	TB
5	02/20/2019	100% CD'S REVISED-JX	BM
6	01/18/2019	100% CD'S REVISED	DAM
7	01/03/2019	100% CD'S REV-SIMS/LOA	BM
8	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
9	11/21/2018	95% CD'S FOR REVIEW	DAM
10	10/19/2018	90% CD'S FOR REVIEW	DAM



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

SHEET TITLE: ANTENNA LAYOUT
 SHEET NUMBER: A-3

- TOP OF EXISTING BUILDING PARAPET WALL
±39'-6" A.G.L.
- TOP OF EXISTING AT&T PANEL ANTENNAS
±39'-2" A.G.L.
- TOP OF EXISTING ROOF DECK
±37'-0" A.G.L.
- RAD CENTER OF EXISTING AT&T PANEL ANTENNAS
±36'-11" A.G.L.



APPLICANT



PLANNING

13948 CALLE BUENO GANAR
JAMUL, CA 91935



ENGINEER

1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6624

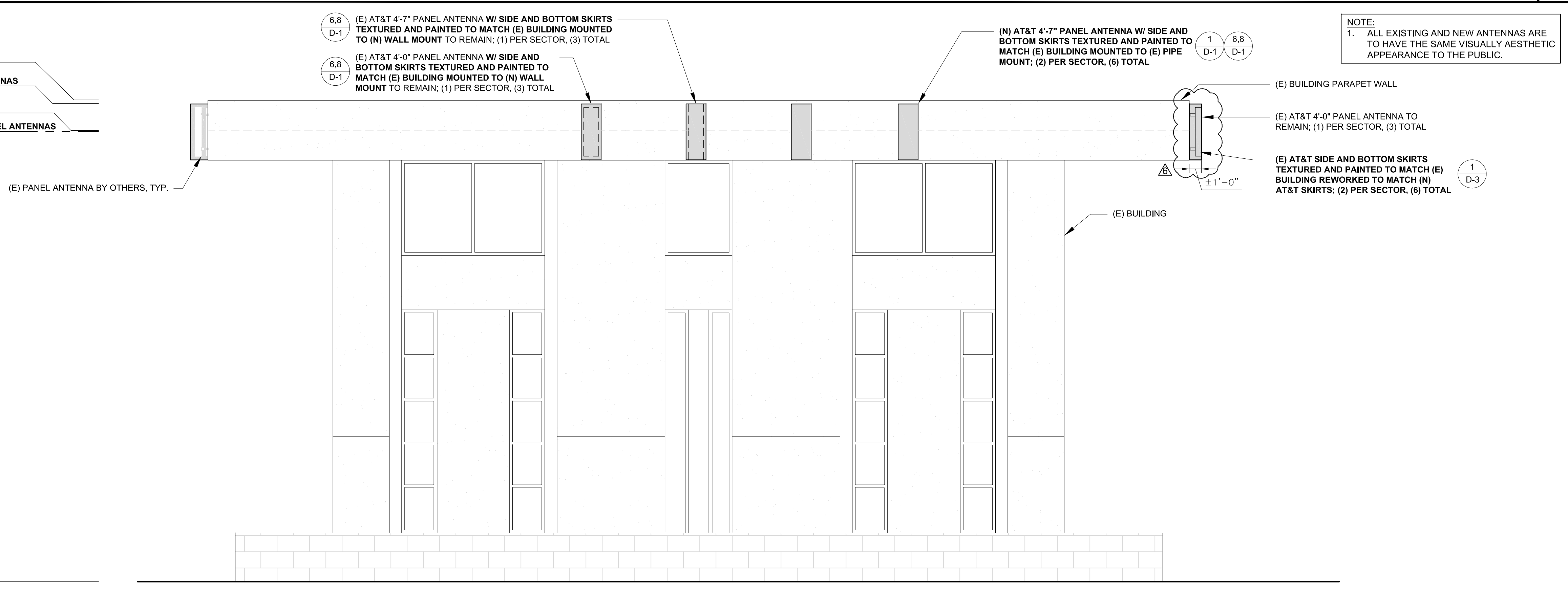
SITE INFORMATION

SITE NUMBER: SD0359
FA NUMBER: 10085099
ROSECRANS
3276 ROSECRANS ST
SAN DIEGO, CA 92110
CITY OF SAN DIEGO
BUILDING

EXISTING NORTHWEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"
0" 2' 4' 8'

- TOP OF EXISTING BUILDING PARAPET WALL
±39'-6" A.G.L.
- TOP OF EXISTING AND NEW AT&T PANEL ANTENNAS
±39'-2" A.G.L.
- TOP OF EXISTING ROOF DECK
±37'-0" A.G.L.
- RAD CENTER OF EXISTING AND NEW AT&T PANEL ANTENNAS
±36'-11" A.G.L.



NOTE:
1. ALL EXISTING AND NEW ANTENNAS ARE TO HAVE THE SAME VISUALLY AESTHETIC APPEARANCE TO THE PUBLIC.

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
1	08/07/2019	100% CD'S REVISED-ELECT	BM
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5	02/20/2019	100% CD'S REVISED-JX	BM
6	01/18/2019	100% CD'S REVISED	DAM
7	01/03/2019	100% CD'S REV-SIMS/LOA	BM
8	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
9	11/21/2018	95% CD'S FOR REVIEW	DAM
10	10/19/2018	90% CD'S FOR REVIEW	DAM

PROFESSIONAL STAMP



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SHEET TITLE

ELEVATIONS

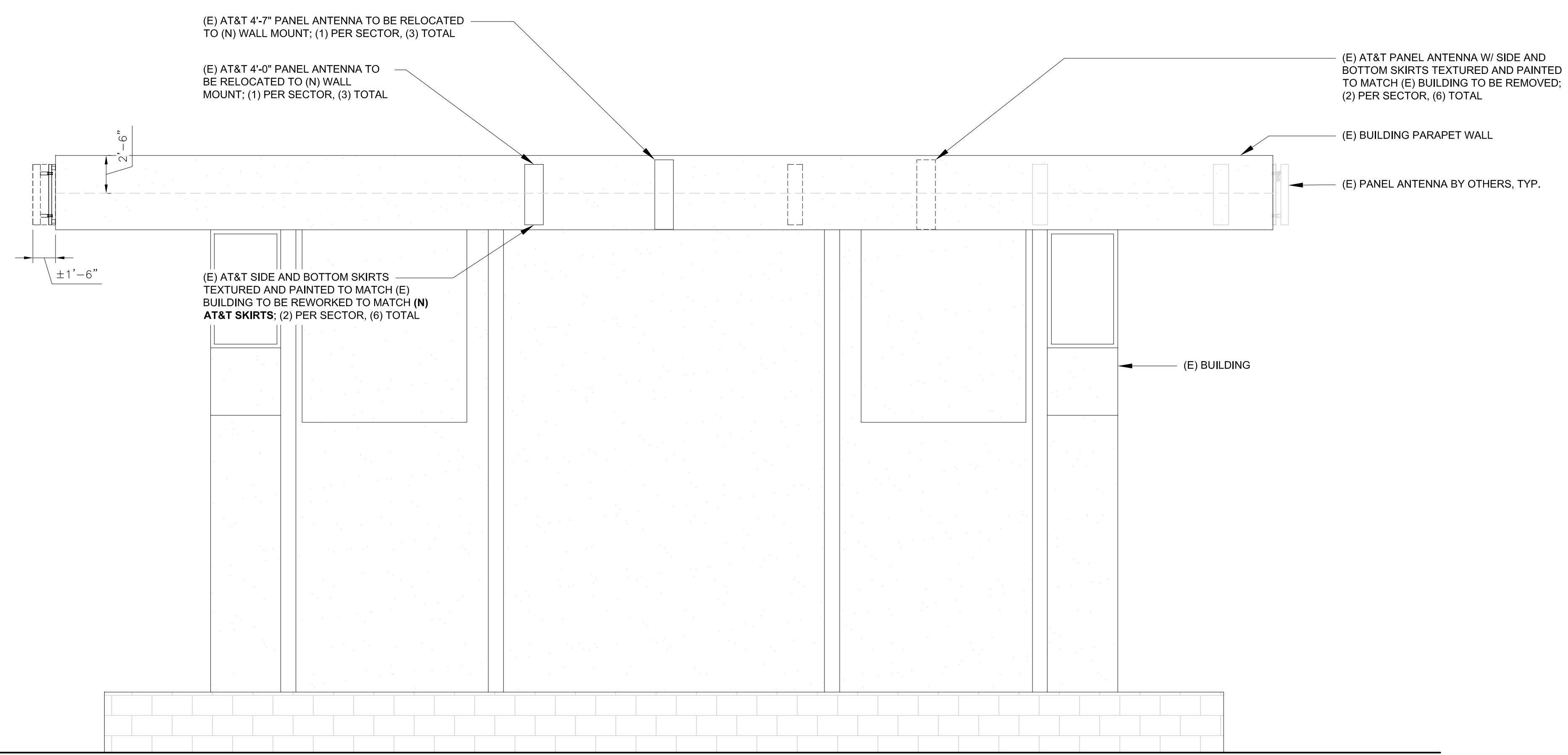
SHEET NUMBER

A-4

NEW NORTHWEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"
0" 2' 4' 8'

TOP OF EXISTING BUILDING PARAPET WALL
 39'-6" A.G.L.
 TOP OF EXISTING AT&T PANEL ANTENNAS
 ±39'-2" A.G.L.
 TOP OF EXISTING ROOF DECK
 ±37'-0" A.G.L.
 RAD CENTER OF EXISTING AT&T PANEL ANTENNAS
 36'-11" A.G.L.



GROUND LEVEL
0'-0" A.G.L.

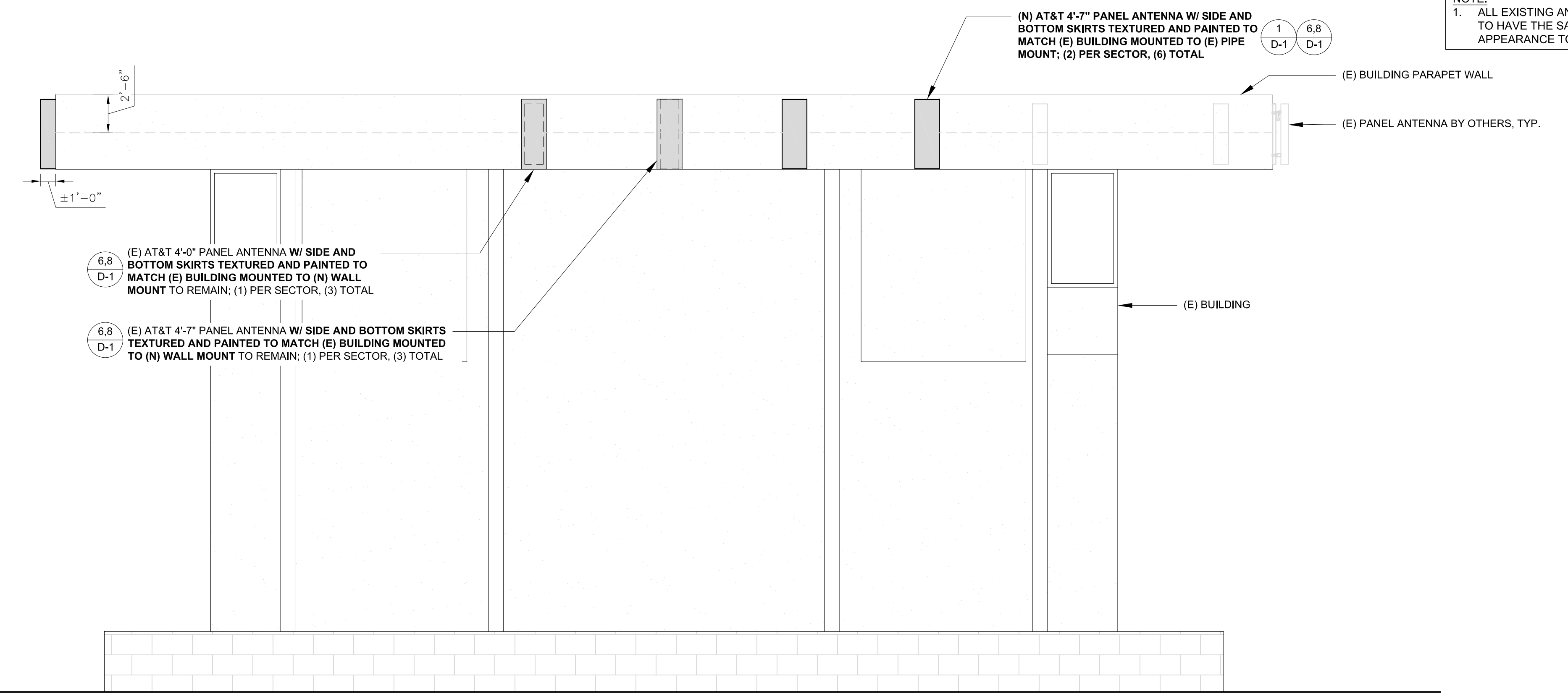


SITE NUMBER: SD0359
 FA NUMBER: 10085099
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 3276 ROSECRANS ST
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 CITY OF SAN DIEGO
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EXISTING SOUTHWEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
 11"x17" SCALE: 3/32" = 1'-0"
 0" 2' 4' 8'

TOP OF EXISTING BUILDING PARAPET WALL
 39'-6" A.G.L.
 TOP OF EXISTING AND NEW AT&T PANEL ANTENNAS
 ±39'-2" A.G.L.
 TOP OF EXISTING ROOF DECK
 ±37'-0" A.G.L.
 RAD CENTER OF EXISTING AND NEW AT&T PANEL ANTENNAS
 36'-11" A.G.L.



GROUND LEVEL
0'-0" A.G.L.

NOTE:
 1. ALL EXISTING AND NEW ANTENNAS ARE TO HAVE THE SAME VISUALLY AESTHETIC APPEARANCE TO THE PUBLIC.

DESIGN RECORD

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4	04/03/2019	100% CD'S REVISED-JX	TB
3	02/20/2019	100% CD'S REVISED-JX	BM
2	01/18/2019	100% CD'S REVISED	DAM
1	01/03/2019	100% CD'S REV-SIMS/LOA	BM
0	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
B	11/21/2018	95% CD'S FOR REVIEW	DAM
A	10/19/2018	90% CD'S FOR REVIEW	DAM

PROFESSIONAL STAMP



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SHEET TITLE

ELEVATIONS

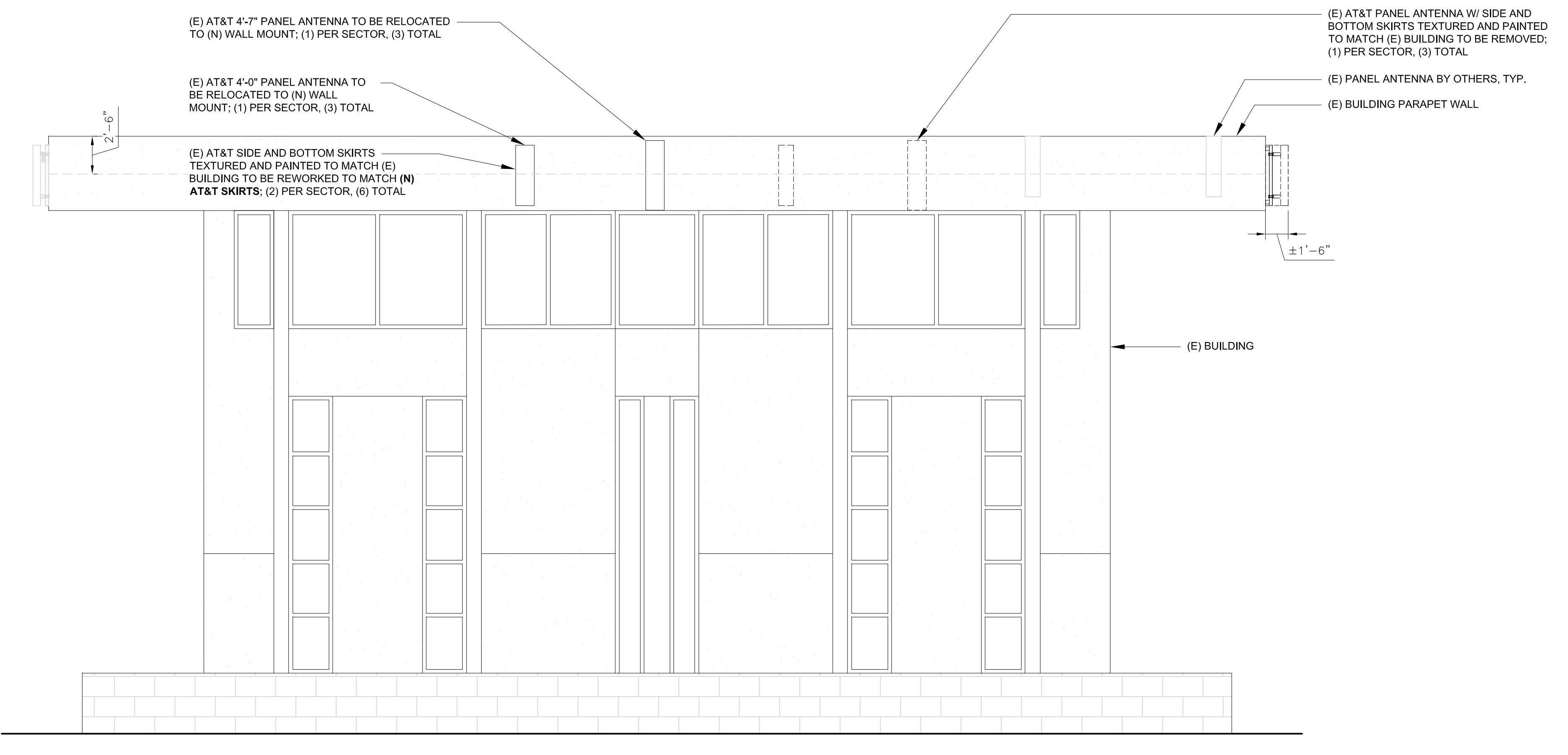
SHEET NUMBER

A-5

NEW SOUTHWEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
 11"x17" SCALE: 3/32" = 1'-0"
 0" 2' 4' 8'

- TOP OF EXISTING BUILDING PARAPET WALL
39'-6" A.G.L.
- TOP OF EXISTING AT&T PANEL ANTENNAS
±39'-2" A.G.L.
- TOP OF EXISTING ROOF DECK
±37'-0" A.G.L.
- RAD CENTER OF EXISTING AT&T PANEL ANTENNAS
36'-11" A.G.L.

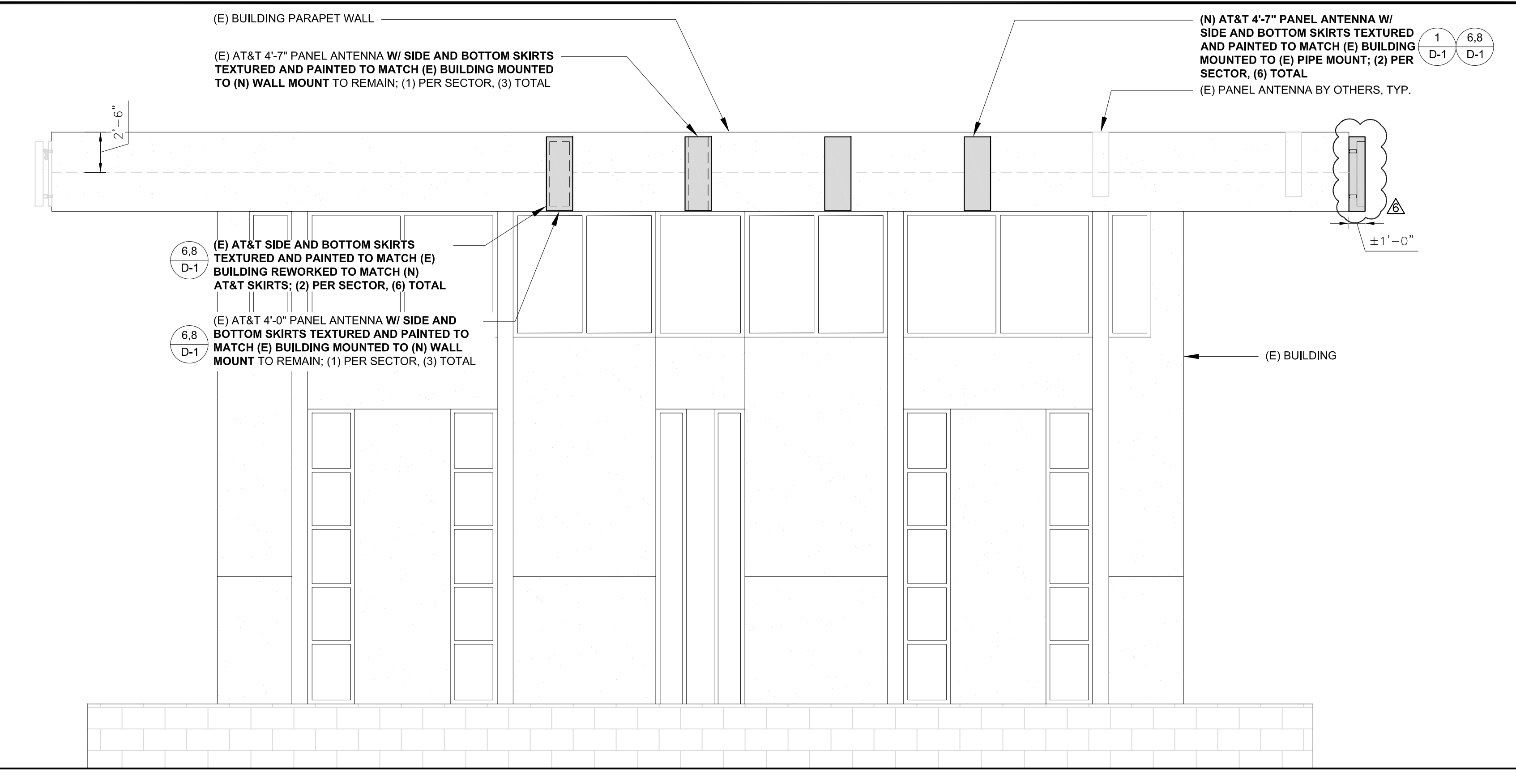


SITE NUMBER: SD0359
 FA NUMBER: 10085099
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 CITY OF SAN DIEGO
 BUILDING

EXISTING NORTHEAST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
 11"x17" SCALE: 3/32" = 1'-0"

- TOP OF EXISTING BUILDING PARAPET WALL
39'-6" A.G.L.
- TOP OF EXISTING AND NEW AT&T PANEL ANTENNAS
±39'-2" A.G.L.
- TOP OF EXISTING ROOF DECK
±37'-0" A.G.L.
- RAD CENTER OF EXISTING AND NEW AT&T PANEL ANTENNAS
36'-11" A.G.L.



NOTE:
 1. ALL EXISTING AND NEW ANTENNAS ARE TO HAVE THE SAME VISUALLY AESTHETIC APPEARANCE TO THE PUBLIC.

1
 DESIGN RECORD
 PROFESSIONAL STAMP
 SHEET TITLE
 SHEET NUMBER

REV	DATE	DESCRIPTION	BY
△	08/07/2019	100% CD'S REVISED-ELECT	BM
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△	04/25/2019	100% CD'S REVISED-JX	TB
△	04/03/2019	100% CD'S REVISED-JX	TB
3	02/20/2019	100% CD'S REVISED-JX	BM
2	01/18/2019	100% CD'S REVISED	DAM
1	01/03/2019	100% CD'S REV-SIMS/LOA	BM
0	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
B	11/21/2018	95% CD'S FOR REVIEW	DAM
A	10/19/2018	90% CD'S FOR REVIEW	DAM



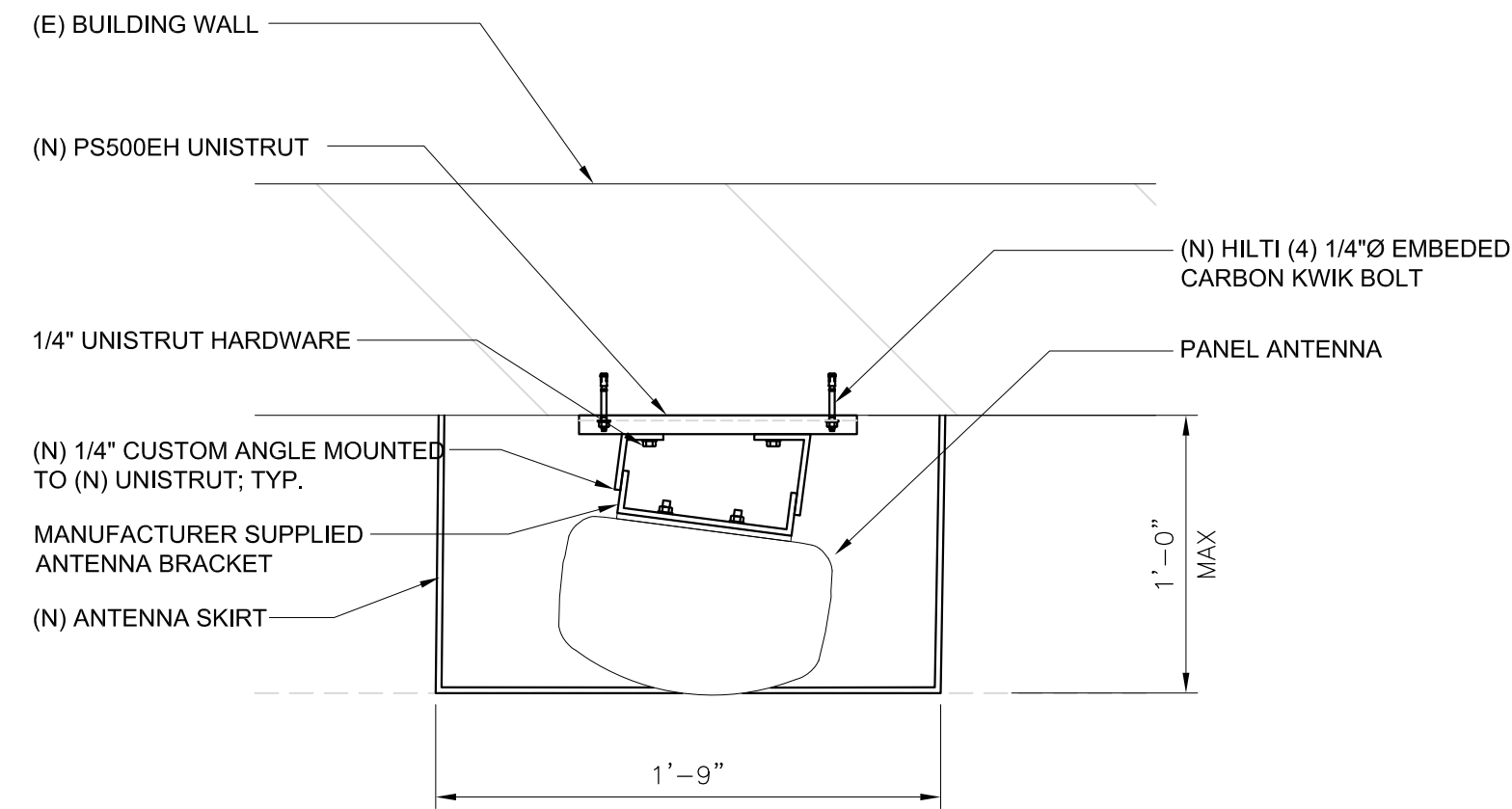
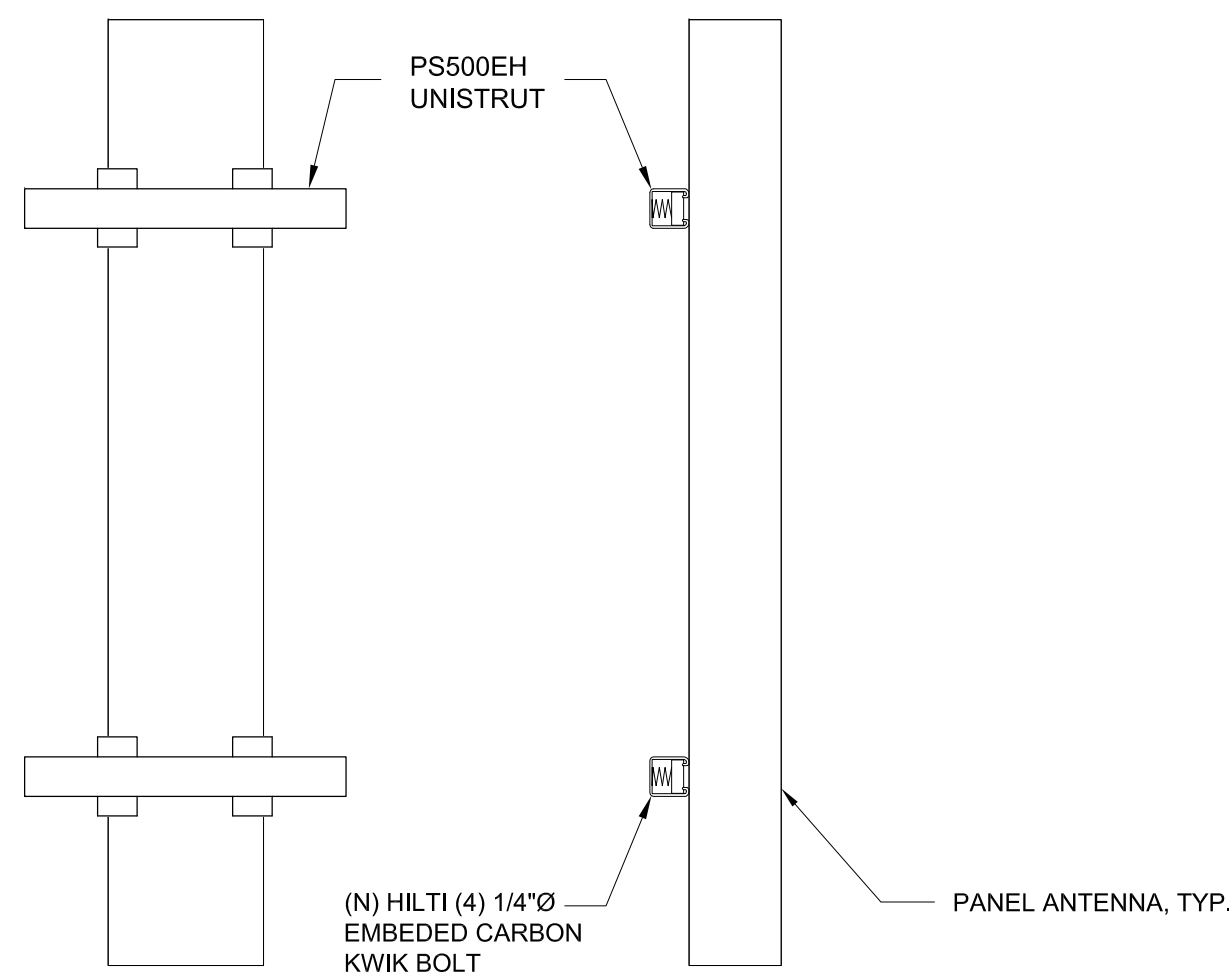
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ELEVATIONS

A-6

NEW NORTHEAST ELEVATION

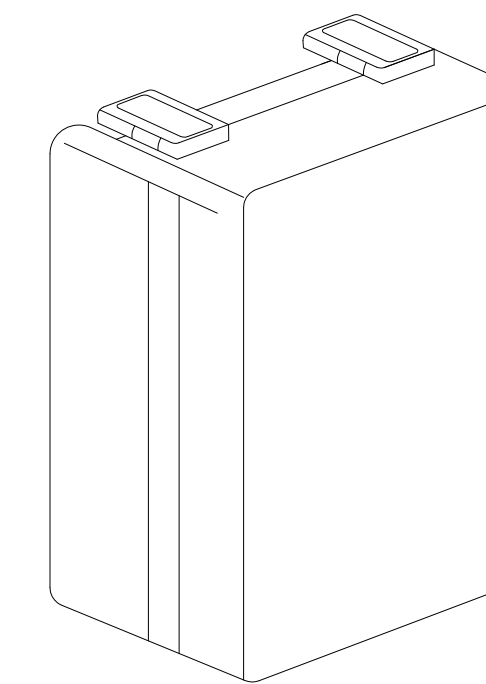
24"x36" SCALE: 3/16" = 1'-0"
 11"x17" SCALE: 3/32" = 1'-0"



* ANTENNAS AND HARDWARE PAINTED TO MATCH EXTERIOR WALL

RRUS 4478 B5

- › B5
 - TX = 869 - 894 MHz
 - RX = 824 - 849 MHz
- › CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. Install 1 SFP and connect 1 fiber pair to the RRUS 4478 during initial install.
- › Only use Ericsson supplied and approved SFPs RDH10265/25
- › 2 external alarm inputs
- › Max wind load @ 50m/sec = 260N
- › Breaker size = 25A, DC Power Consumption = 805W (for dimensioning)
- › 200mm horizontal separation required for side by side mounting
- › 200mm separation required from antenna backplane to radio
- › 400mm vertical outdoor/indoor separation required between 2 radios
- › 500mm vertical separation below antenna
- › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter is required for 2-wire connection
 - Shielded DC cable is required
- › Ground cable size = 2AWG
- › Dimensions (incl. handles, feet and sunshield, w/o fan unit)
 - Height: 16.5" (420 mm)
 - Width: 13.4" (340 mm)
 - Depth: 7.7" (196 mm)
- › Weight, excl. mounting hardware = 59.9 lbs (27.2 kg)



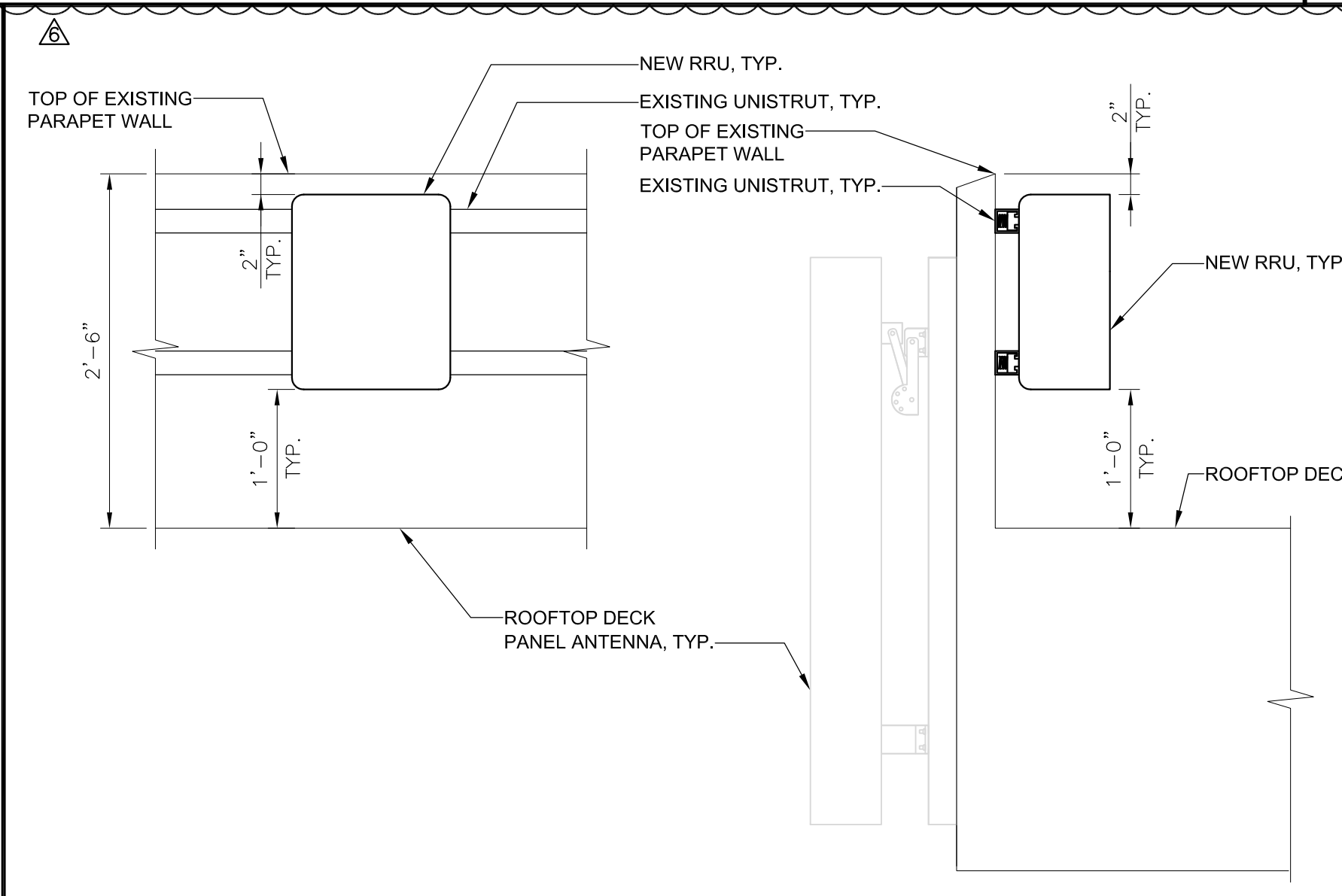
ANTENNA MOUNTING

24"x36" SCALE: NTS
11"x17" SCALE: NTS

6 ERICSSON RRUS 4478 B5

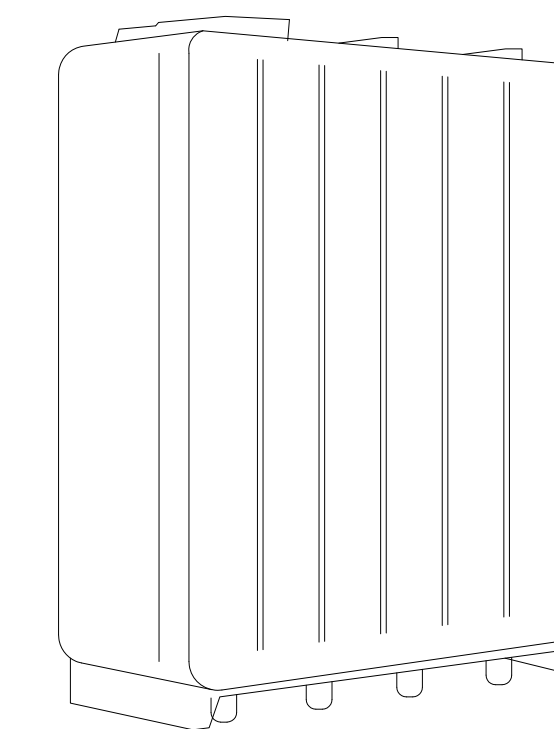
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3



RRUS 4426 B66

- › B66
 - TX = 2110 - 2180 MHz
 - RX = 1710 - 1780 MHz
- › CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. Install 2 SFP7s and connect 2 fiber pair to the RRUS 4426 during initial install.
- › Only use Ericsson supplied and approved SFP7s RDH10265/25
 - Install 2 SFP RDH 10265/3 for CPRI length 1.4 km - 10 km
 - Install SFP7 (pair): RDH 102 70/1 and RDH 102 70/2 (bi-directional SFP7 for CPRI length > 10 km)
- › 2 external alarm inputs
- › Max wind load @ 50m/sec = 260N
- › Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
- › 200mm horizontal separation required for side by side mounting
- › 200mm separation required from antenna backplane to radio
- › 400mm vertical outdoor/indoor separation required between 2 radios
- › 500mm vertical separation below antenna
- › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter is required for 2-wire connection
 - Shielded DC cable is required
- › Ground cable size = 2AWG
- › Dimensions (incl. handles, feet and sunshield, w/o fan unit)
 - Height: 14.96" (380 mm)
 - Width: 13.19" (335 mm)
 - Depth: 5.8" (147. mm)
- › Weight, excl. mounting hardware = 48.4 lbs (22 kg)



SECTOR "A" ANTENNA MOUNTING

24"x36" SCALE: NTS
11"x17" SCALE: NTS

8 RRU MOUNTING

24"x36" SCALE: NTS
11"x17" SCALE: NTS

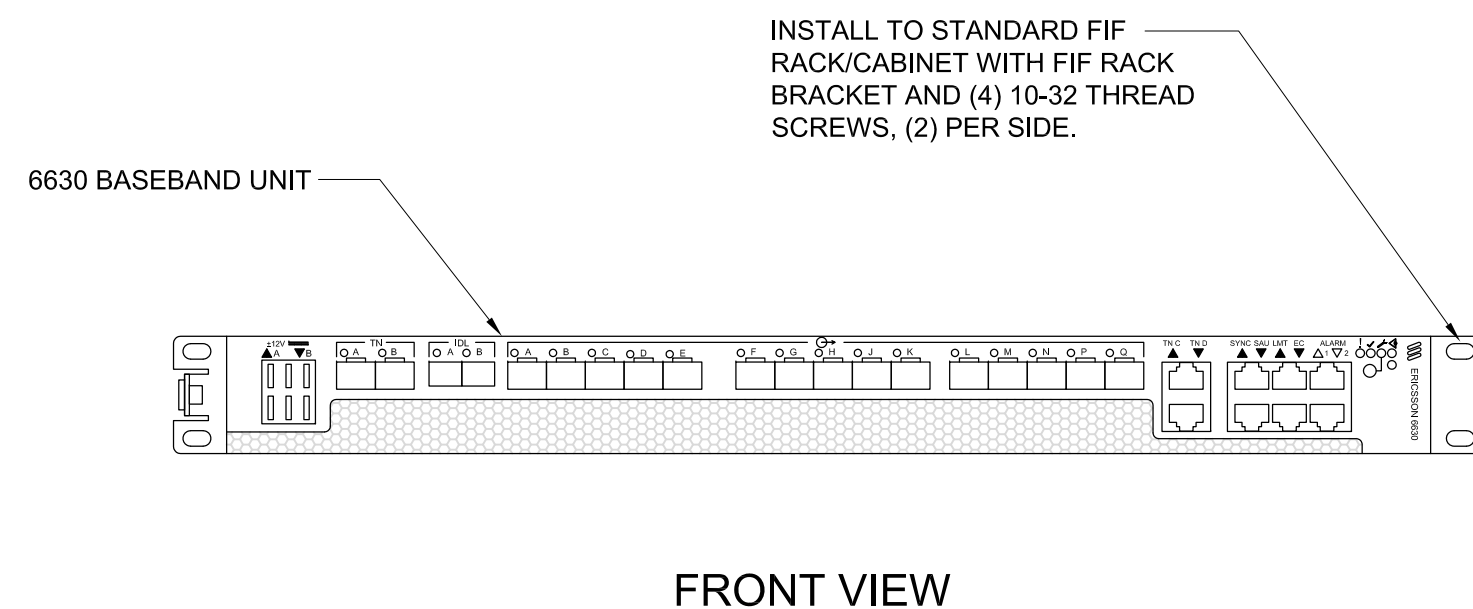
5 ERICSSON RRUS 4426 B66

24"x36" SCALE: NTS
11"x17" SCALE: NTS

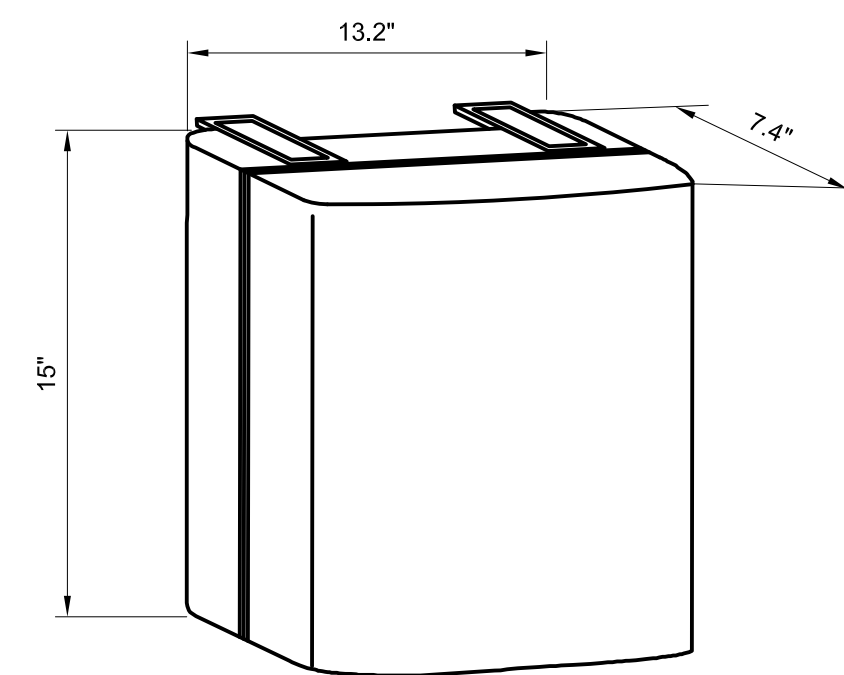
2

MANUFACTURER: ERICSSON
MODEL NO.: 6630 STAND-ALONE BASEBAND
DIMENSIONS (HxWxD): 2" x 19" x 13"
WEIGHT: 10 LBS

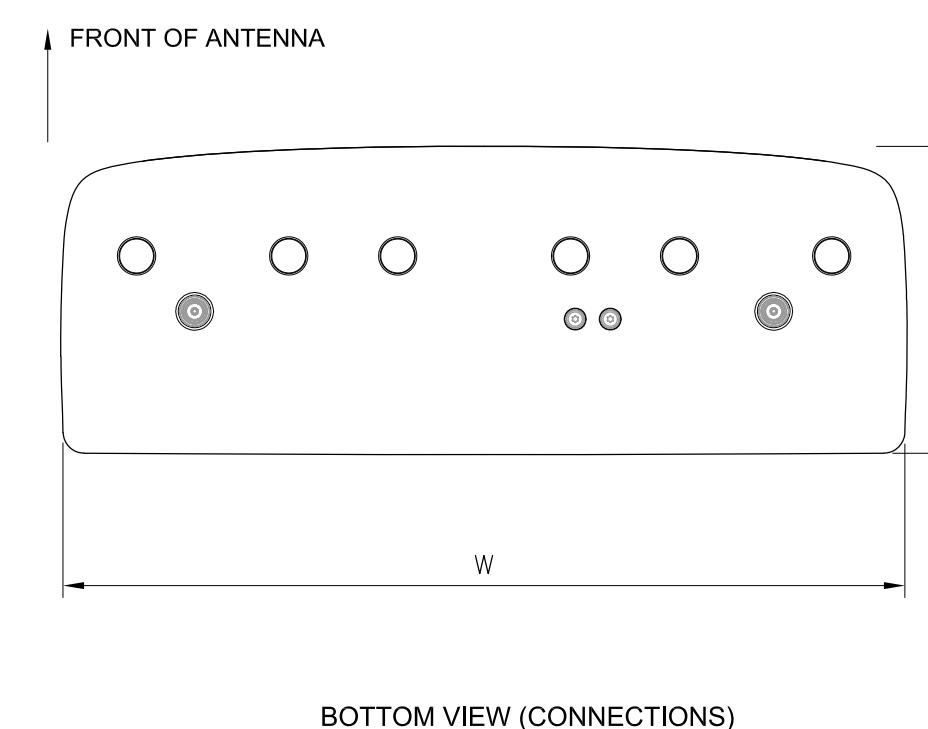
* INSTALL INSIDE NEW RACK/CABINET.
* INSTALLATION INTO EXISTING CABINET OR RACK
REQUIRES NO SPECIAL INSPECTIONS.



B14 4478 IS EXPECTED FFA/GA IN 3Q
HEIGHT: 15"
WIDTH: 13.2"
DEPTH: 7.4"
4X40W FOR 4T4R OR 2X40W+2X40W 2T2R SECTORS
60 LBS
ONE CPRI CONNECTION PER RRH



COMMSCOPE NNHH-65A-R4	
HEIGHT (H)	55.1"
WIDTH (W)	19.6"
DEPTH (D)	7.8"
WEIGHT	67.2 LBS.
SURVIVAL WIND SPEED:	> 150.0 PH
WIND LOADING, MAXIMUM:	
FRONT:	114.4 lbf N @ 150 km/h
CONNECTOR:	4.3-10 FEMALE - BOTTOM



6630 BASEBAND UNIT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7 NEW RRUS B14 4478

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4 8-PORT PANEL ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1



SITE NUMBER: SD0359
FA NUMBER: 10085099
ROSECRANS
3276 ROSECRANS ST
SAN DIEGO, CA 92110
CITY OF SAN DIEGO
BUILDING

REV	DATE	DESCRIPTION	BY
3	02/20/2019	100% CD'S REVISED-JX	BM
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0	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
B	11/21/2018	95% CD'S FOR REVIEW	DAM
A	10/19/2018	90% CD'S FOR REVIEW	DAM



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DETAILS

SHEET NUMBER
D-1

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS

9 KATHREIN PANEL ANTENNA 24"x36" SCALE: NTS 11"x17" SCALE: NTS

MANUFACTURER: KATHREIN
 MODEL NO.: 800 10864
 DIMENSIONS (LXWXD): 55.2 X 14.85 X 6.7 INCHES
 WIND SPEED, MAXIMUM: > 150.0 MPH
 WIND LOADING, MAXIMUM:
 FRONT: 840 N @ 150 km/h
 SIDE: 270 lbf @ 150 km/h
 WEIGHT (WITHOUT MOUNTING): 55.2 LBS (25.0 KG)
 CONNECTOR: 6; 7-16 DIN FEMALE - BOTTOM
 MOUNTING POLE: 2-4.6 INCHES (5-11.5 CM)

FRONT OF ANTENNA
 55.2"
 14.85"
 6.7"
 BOTTOM VIEW (CONNECTIONS)
 FRONT VIEW

6 EQUIPMENT ANCHORAGE 24"x36" SCALE: NTS 11"x17" SCALE: NTS

COORDINATE ANCHOR BOLT PLACEMENT AND SIZE WITH MANUFACTURER'S RECOMMENDATION

NEW EQUIPMENT PER PLAN
 4" MIN
 NEW (4)-5/8" STAINLESS STEEL HILTI KWIK BOLT TZ EXPANSION ANCHORS WITH 3.25" MIN. EMBEDMENT (PER ESR 1917)
 EXISTING CONCRETE EQUIPMENT PAD

APPLICANT

PLANNING

13948 CALLE BUENO GANAR
 JAMUL, CA 91935

ENGINEER

1387 CALLE AVANZADO
 SAN CLEMENTE CA 92673 (949) 391-6624

SITE INFORMATION

SITE NUMBER: SD0359
 FA NUMBER: 10085099
 ROSECRANS
 3276 ROSECRANS ST
 SAN DIEGO, CA 92110
 CITY OF SAN DIEGO BUILDING

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
3	02/20/2019	100% CD'S REVISED-JX	BM
2	01/18/2019	100% CD'S REVISED	DAM
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0	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
B	11/21/2018	95% CD'S FOR REVIEW	DAM
A	10/19/2018	90% CD'S FOR REVIEW	DAM

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS

8 CCI PANEL ANTENNA 24"x36" SCALE: NTS 11"x17" SCALE: NTS

MANUFACTURER: CCI
 MODEL NO.: HPA-65R-BUU-H4
 DIMENSIONS (LXWXD): 48.0 x 14.8 x 7.4 INCHES
 SURVIVAL WIND SPEED: > 150 MPH
 FRONT WIND LOAD: 156 LBS (692 N) @ 100 MPH (161 KPH)
 SIDE WIND LOAD: 87 LBS (453 N) @ 100 MPH (161 KPH)
 EQUIVALENT FLAT PLATE AREA: 6.1 FT2 (0.60 M2)
 WEIGHT (WITHOUT MOUNTING): 34 LBS (15.5 KG)
 CONNECTOR: 6; 7-16 DIN FEMALE LONG NECK
 MOUNTING POLE: 2-5 INCHES (5-12 CM)
 RET SYSTEM WEIGHT: 5.0 LBS (2.3 KG)

14.8"
 7.4"
 48"
 BOTTOM VIEW (CONNECTIONS)
 REAR VIEW

5 NETSURE BATTERY RACK 24"x36" SCALE: NTS 11"x17" SCALE: NTS

EMERSON NETWORK POWER
 +24V OR -48V NETSURE VRLA BATTERY RACK

HEIGHT (H)	60"; 72"; 84"
WIDTH (W)	21.5"; 25.8"
DEPTH (D)	18.0"
WEIGHT	600 LBS. (WITHOUT BATTERIES)
MOUNTING:	PAD/ PLATFORM

TOP VIEW FRONT VIEW RIGHT SIDE VIEW

PROFESSIONAL STAMP

DATE SIGNED: 08/07/2019

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NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS

7 NEW BATTERY DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS

EXIDE TYPE DESIGNATION:	M12V155FT
NOM. VOLTAGE V:	12
NOM. CAPACITY C10 1.80 VPC 20° C Ah:	150
NOM. CAPACITY C8 1.75 VPC 25° C Ah:	155
LENGTH (l) MAX (mm):	22" (558.80)
WIDTH (b/w) MAX. (mm):	4.90" (124.46)
HEIGHT (h1) MAX (mm):	11.15" (283)
WEIGHT APPROX. :	119 LBS (53.8 KG)
INTERNAL RESISTANCE mOhm	3.0
TERMINAL:	F-M6-90°

h
 b/w
 l

4 NETSURE 7100 24"x36" SCALE: NTS 11"x17" SCALE: NTS

NETSURE 7100	
HEIGHT (H)	80"
WIDTH (W)	23"
DEPTH (D)	23"
WEIGHT	375 lbs.

PLAN VIEW SIDE VIEW FRONT VIEW

SHEET TITLE

DETAILS

SHEET NUMBER

D-2

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS

7 NEW BATTERY DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS

4 NETSURE 7100 24"x36" SCALE: NTS 11"x17" SCALE: NTS

PROFESSIONAL STAMP



SITE NUMBER: SD0359
 FA NUMBER: 10085099
 ROSECRANS
 3276 ROSECRANS ST
 SAN DIEGO, CA 92110
 CITY OF SAN DIEGO
 BUILDING

REV	DATE	DESCRIPTION	BY
△	08/07/2019	100% CD'S REVISED-ELECT	BM
△	05/17/2019	100% CD'S REVISED-JX	DGM
△	04/25/2019	100% CD'S REVISED-JX	TB
△	04/03/2019	100% CD'S REVISED-JX	TB
3	02/20/2019	100% CD'S REVISED-JX	BM
2	01/18/2019	100% CD'S REVISED	DAM
1	01/03/2019	100% CD'S REV-SIMS/LOA	BM
0	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
B	11/21/2018	95% CD'S FOR REVIEW	DAM
A	10/19/2018	90% CD'S FOR REVIEW	DAM



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SHEET TITLE
 DETAILS

SHEET NUMBER
 D-3

APPLICANT

PLANNING

ENGINEER

SITE INFORMATION

DESIGN RECORD

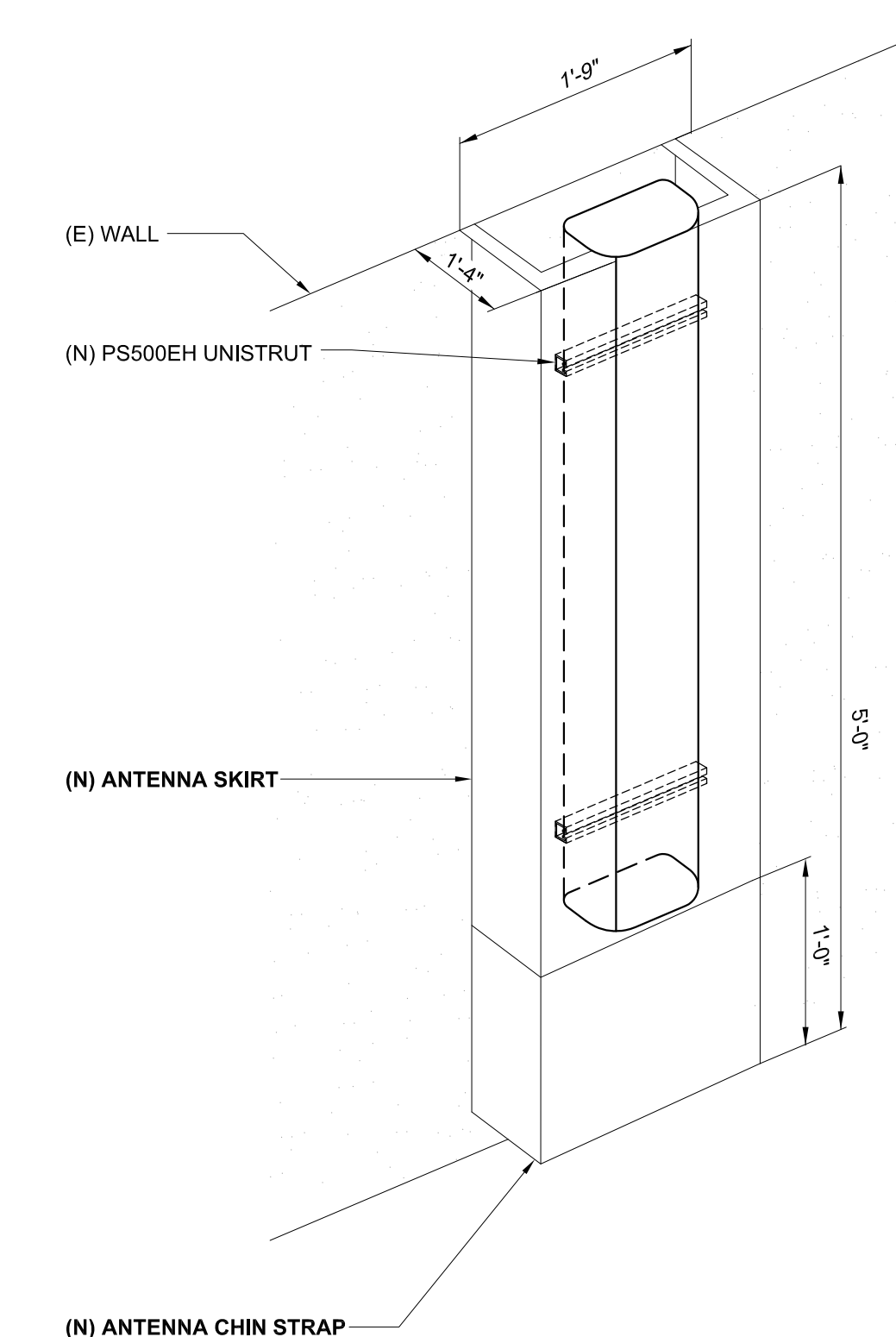
PROFESSIONAL STAMP

SHEET TITLE

SHEET NUMBER

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2

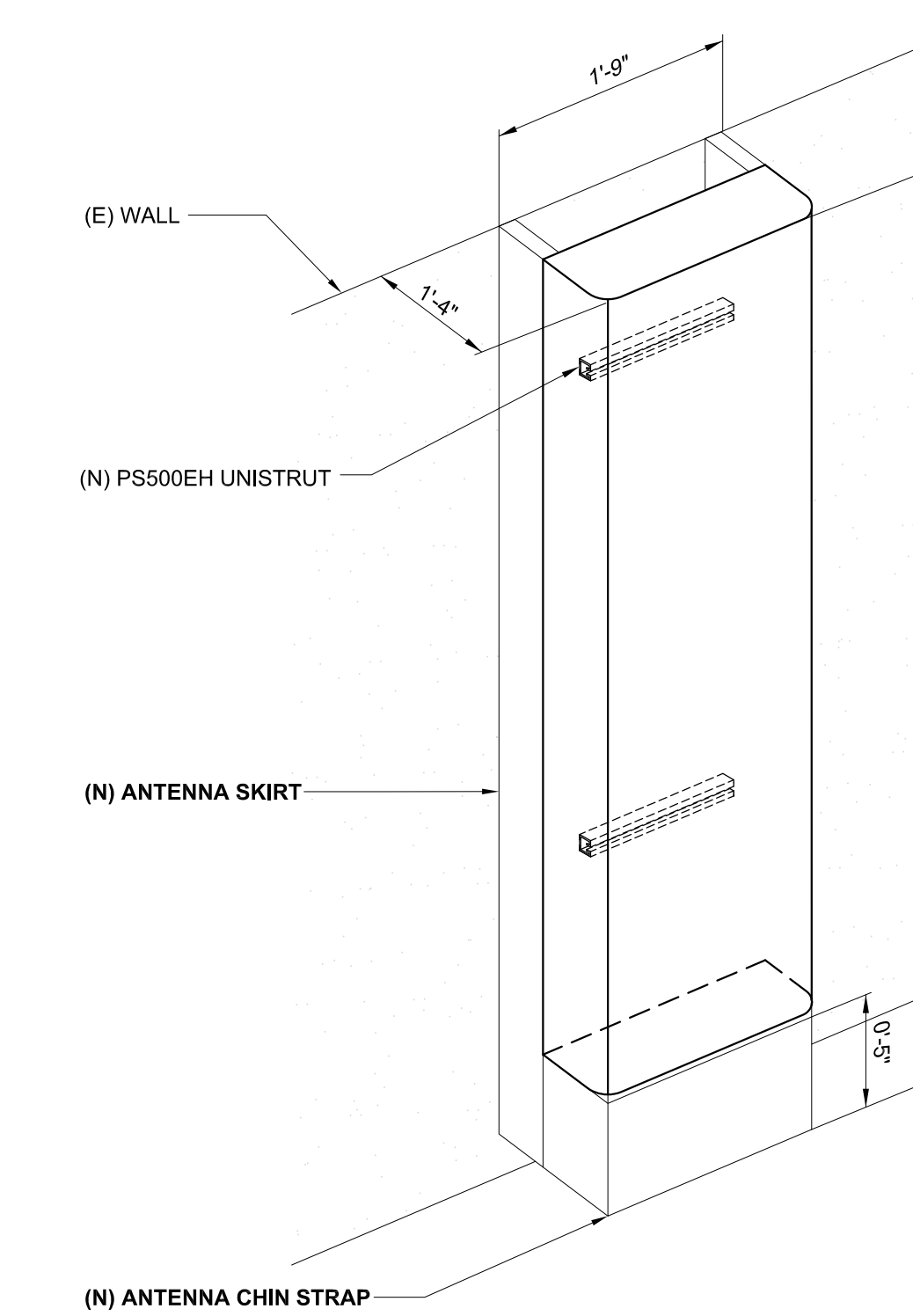
NOTE:
 • THERE ARE TO BE NO OBVIOUS TRANSITION LINES BETWEEN THE SKIRT, CHIN STRAP, AND ANTENNAS.



NEW CCI ANT. SKIRT MOUNTING 24"x36" SCALE: NTS 11"x17" SCALE: NTS 1

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4

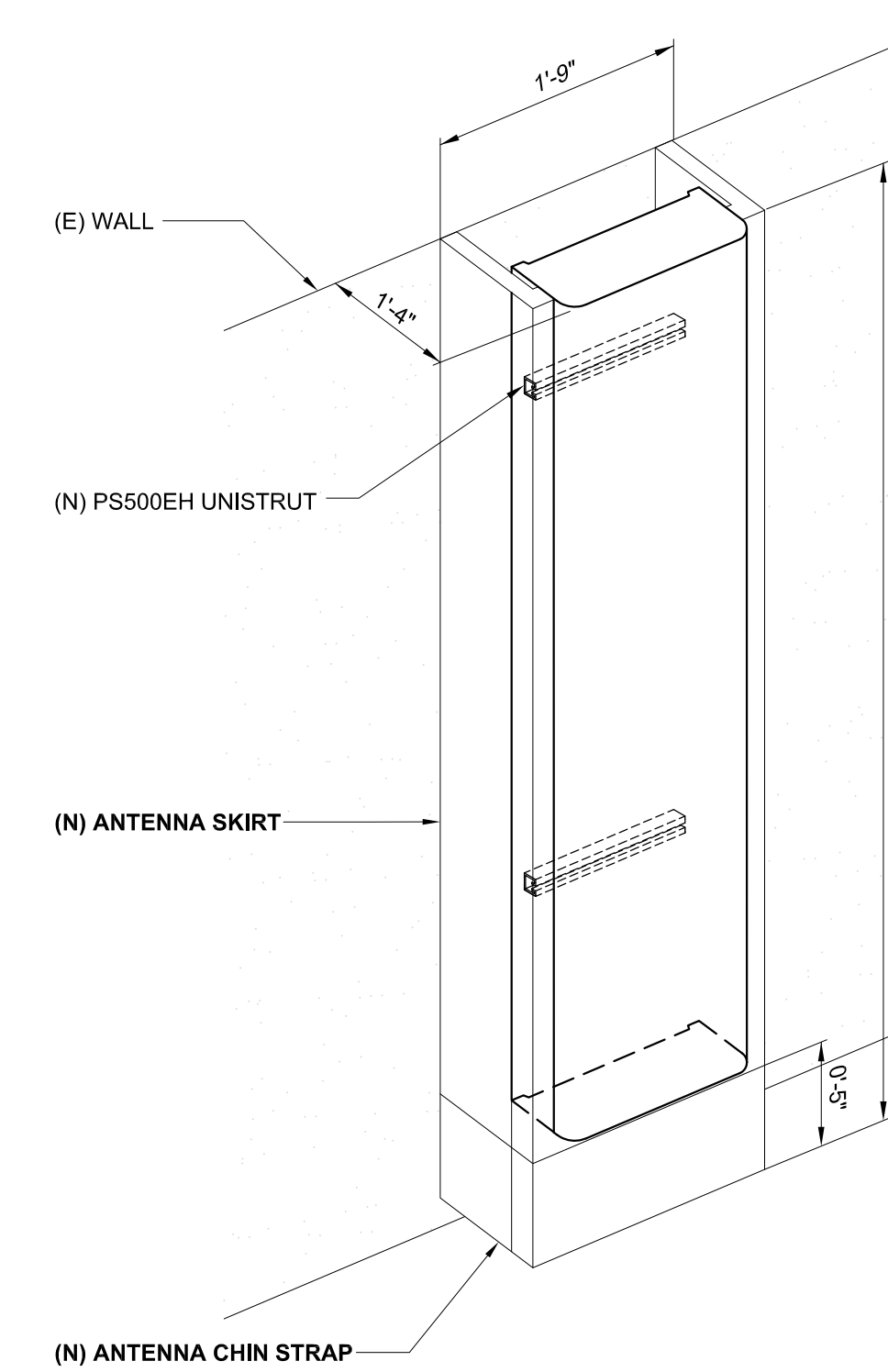
NOTE:
 • THERE ARE TO BE NO OBVIOUS TRANSITION LINES BETWEEN THE SKIRT, CHIN STRAP, AND ANTENNAS.



NEW COMMSCOPE ANT. SKIRT MOUNTING 24"x36" SCALE: NTS 11"x17" SCALE: NTS 3

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 6

NOTE:
 • THERE ARE TO BE NO OBVIOUS TRANSITION LINES BETWEEN THE SKIRT, CHIN STRAP, AND ANTENNAS.



NEW KATHREIN ANT. SKIRT MOUNTING 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5

GENERAL ELECTRICAL NOTES

1. SUBMITTAL OF BIO INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PREFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL FIELD VERIFICATION AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER AND OWNER LISTING ALL MALFUNCTIONS, FAULTY, EQUIPMENT, AND DISCREPANCIES.
3. THESE PLANS ARE SCHEMATIC ONLY; CONTRACTOR SHALL FOLLOW AS CLOSELY AS POSSIBLE.
4. ANTENNA MOUNTING HEIGHTS AND AZIMUTHS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE INDICATED. NOTE THAT CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
6. IF REQUIRED, CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
7. ALL MATERIALS AND EQUIPMENT SHALL BE PROPOSED AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. EXCEPTIONS TO THIS MAY BE PERMITTED IF PROPOSED REPLACEMENT BREAKERS OR SWITCHES ARE NOT AVAILABLE FOR ORIGINAL ELECTRICAL DISTRIBUTION EQUIPMENT -- ON THAT CASE, RECONDITIONED EQUIPMENT MAY BE PERMISSIBLE IF IT CARRIES ONE (1) YEAR WARRANTY. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCK APPROVAL. Materials SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
8. IF CONTRACTOR IS PROPOSING ALTERNATE MATERIALS OR CONSTRUCTION METHODS FROM WHAT IS SPECIFIED IN THE PLANS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORK.
9. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL CODES (NEC2014) AND ALL LOCAL AND STATE CODES (CEC 2016), LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC.
10. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) REQUIREMENTS.
11. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER, ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
12. CLEAN WORK SITE DAILY, AND REMOVE ALL DEBRIS RESULTING FROM CONSTRUCTION. LEAVE JOB SITE IN A TIDY AND UNDAMAGED CONDITION.
13. UPON COMPLETION OF WORK, PERFORM CONTINUITY, SHORT CIRCUIT, AND GROUNDING TEST. GROUNDING SYSTEM SHALL BE TESTED BY INDEPENDENT TESTING AGENCY, WITH WRITTEN REPORT SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL. AFTER APPROVAL, FURNISH ONE COPY OF REPORT TO ENGINEER.
14. PROVIDE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL EQUIPMENT LOCATIONS, CONDUIT/CABLE ROUTING, PANEL SCHEDULE, AND OTHER DETAILS WITHIN 10 DAYS OF PROJECT COMPLETION. DATE OF JOB COMPLETION SHALL BE THE DATE ON THE CONTRACTOR'S "NOTICE OF COMPLETION" SUBMITTED TO THE OWNER, AFTER SITE INSPECTION AND SIGNOFF BY OWNER.
15. ALL BROCHURES, OPERATING MANUAL, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
17. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
18. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSED THORUGH THE FLOOR OR WALLS FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
19. EXACT LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS, SUCH AS X-RAY EQUIPMENT OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
20. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH SUITABLE WEATHERPROOF SEALANT. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH CURRENT LOCAL BUILDING CODES USING U.L. RATED MATERIALS.
21. ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM. UNLESS NOTED OTHERWISE, INSULATION SHALL BE 90°C RATED, AND DUAL RATED THHN/THWN-2. NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
22. ALL CONDUIT ONLY (C.O.) RUNS SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.
23. GROUND THE ENTIRE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE NEC AND DRAWINGS. BELOW GRADE GROUND CONDUCTORS SHALL BE #2 AWG SOLID BARE TINTED COPPER. ABOVE GRADE, ALL CONDUCTORS SHALL BE STRANDED GREEN INSULATED COOPER, SEIZED #2 AWG OR AS SHOWN IN THE DRAWINGS. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 8' LONG. GROUNDING HARDWARE SHALL BE ERICO, STORM COPPER COMPONENTS, FUSHI COPPERWELD OR APPROVED EQUAL.
24. GROUND ALL ANTENNA BASES, ENCLOSURES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO THE BUS BARS. FOLLOW EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR GROUNDING. GROUND COAX SHIELD AT BOTH ENDS USING CABLE MANUFACTURER'S RECOMMENDATIONS.
25. THE NUMBER OF GROUNDING BARS MAY VARY DEPENDING UPON THE SITE LAYOUT, ANTENNA LOCATION, AND OTHER FACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SUFFICIENT GROUNDING BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
26. EXOTHERMIC WELDS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, CABLE TO GROUND RODS, GROUND ROD SPLICES AND OTHER SYSTEMS AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING, METAL, ETC.) SHALL BE INSTALLED PER MANUFACTURERS' RECOMMENDATIONS AND PROCEDURES. ALL EXOTHERMIC WELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF GALVITE (WHITE) PAINT OR SILVERBRITE (ALUMINUM).
27. ALL STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG, ATTACHED WITH NUTS, BOLTS AND STAR WASHERS TYPICAL. ALL MECHANICAL CONNECTIONS SHALL HAVE ANTI-OXIDANT GREASE (E.G. NO-OX) APPLIED BETWEEN LUG AND BUS BAR.
28. ALL EXPOSED TINNED COPPER GROUNDS SHALL BE PROTECTED BY 1/2" PVC CONDUIT AND SECURED. WHERE SUBJECT TO MECHANICAL DAMAGE, OTHER GROUND LEADS SHALL ALSO BE ENCLOSED IN 1/2" OR 3/4" LTFC.
29. COMPRESSION FITNESS TO BE USED ON ALL CONDUITS (NO SETSCREWS).
30. PVC CONDUIT INSTALLED IN OUTDOOR LOCATIONS SUBJECT TO SUNLIGHT EXPOSURE SHALL BE UV RESISTANT. SURFACE-MOUNTED CONDUIT INSTALLED IN LOCATIONS SUBJECT TO FOOT TRAFFIC OR OTHER WEAR AND TEAR, SHALL BE PVC SCHEDULE 80, IMC, OR GRC. CONDUIT RUNS ALONG WALLS OR FLOORS SHALL BE SURFACE MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. OTHER CONDUIT REQUIREMENTS:
 - 30.a. INTERMEDIATE METALLIC CONDUIT (IMC) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE WATERTIGHT COMPRESSION TYPE. IMC SHALL BE USED FOR OUTDOOR RUNS, IMC IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3
 - 30.b. ELECTRICAL METALLIC TUBING (EMT) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - 30.c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - 30.d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
31. ALL PROPOSED ELECTRICAL ENCLOSURES (EXCEPT FOR JUNCTION OR SPLICE BOXES) SUCH AS PANELBOARDS AND DISCONNECT SWITCHES SHALL BE LABELED WITH PERMANENT ENGRAVED PHENOLIC NAMEPLATES, BLACK WITH WHITE LETTERING, AND ATTACHED WITH RIVETS.

ABBREVIATIONS

AAV	ALTERNATE ACCESS VENDOR	GR	GROWTH (CABINET)	UADU	UNIVERSAL TYPE A DIGITAL UNIT
ACCA	ANTENNA CABLE ASSEMBLY	GRC	GALVANIZED RIGID (STEEL) CONDUIT	U/G	UNDERGROUND
AFF	ABOVE FINISHED FLOOR	IGB	INTERNAL GROUND BAR	WP	WEATHERPROOF
AFG	ABOVE FINISHED GRADE	IGR	INTERIOR GROUND RING	WW	WIREFWAY
AWS	ADVANCED WIRELESS SERVICES	IMC	INTERMEDIATE METALLIC CONDUIT	XFMR	TRANSFORMER
A/G	ABOVE GROUND	ISCW	INSULATED STRANDED COPPER WIRE		
AGB	ANTENNA GROUND BAR	LTE	LONG TERM EVOLUTION		
ATS	AUTOMATIC TRANSFER SWITCH	LTFC	LIQUID TIGHT FLEXIBLE CONDUIT		
AWG	AMERICAN WIRE GAUGE	MGB	MAIN (OR MASTER) GROUND BAR		
BBU	BASEBAND UNIT	MMBS	MULTI-MODE BASE STATION		
BCW	BARE COPPER WIRE	MTS	MANUAL TRANSFER SWITCH		
BSCW	BARE STRANDED COPPER WIRE	NEC	NATIONAL ELECTRIC CODE		
BTCW	BARE TINNED COPPER WIRE	NID	NETWORK INTERFACE DEVICE		
C	CONDUIT	NV	NETWORK VISION		
CAB	CABINET	O/H	OVERHEAD		
CE	CONCRETE ENCASED	PCS	PERSONAL COMMUNICATION SERVICES		
CGB	COLLECTOR GROUND BAR	PPC	POWER PROTECTION CABINET		
CKT	CIRCUIT	PRC	PRIMARY RADIO CABINET		
COVP	CAPACITOR OVERVOLTAGE PROTECTION	PVC	POLYVINYL CHLORIDE		
DB	DIRECT BURIED	PWR	POWER		
DEI	DIGITAL EXPANSION INTERFACE	RGS	RIGID GALVANIZED STEEL		
DISC	DISCONNECT	RRH	REMOTE RADIO HEAD		
EMT	ELECTRICAL METALLIC TUBING	RRU	REMOTE RADIO UNIT		
GFCI	GROUND FAULT CURRENT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE		
G	GROUND	S/S	STAINLESS STEEL		
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		
GPS	GLOBAL POSITIONING SYSTEM	TYP	TYPICAL		

ELECTRICAL LEGEND

SYMBOLS:

----	CONDUIT - CONCEALED
----	CONDUIT - EXPOSED
	CONDUIT AND WIRE. FULL HASH MARK - CIRCUIT WIRE. HALF HASH MARK - BOND WIRE. (G)
→ BTS-2,4	HOME RUN TO PANEL. E.G. PANEL BTS CIRCUITS 2 & 4.
⊕	20 AMP 125V DUPLEX RECEPTACLE HUBBELL #5362 1
⊕	20 AMP 125V QUADPLEX RECEPTACLE HUBBELL #5362 1
⊕ GFI	20 AMP 125V DUPLEX GROUND FAULT INTERRUPT RECEPTACLE HUBBELL #GF5362 1
⊕	FUSED DISCONNECT SWITCH
WP	WEATHERPROOF
UON	UNLESS OTHERWISE NOTED
⊕ M ²	20 AMP 120/277V SINGLE POLE SWITCH. HUBBELL #HBL 1221 1, +48" M = MOTOR / HORSEPOWER RATED 2 = 2 POLE
30-2	CURRENT CARRYING CAPACITY AND NO. OF POLES OF IDENTIFIED DEVICE. EXAMPLE 30 AMP 2 POLES
Sob	LIGHTING SWITCH 20 AMP, 120/277V, SINGLE POLE, HUBBELL #HBL 1221, +48"
Soff	VERRIDE OFF LIGHTING SWITCH

NOTES:

1. SMOKE DETECTOR TO SHUT DOWN A/C UNITS WHEN ACTIVATED
2. ALL INTERIOR RECEPTACLES AND SWITCHES SHALL BE SURFACE MOUNTED
3. LABEL ALL BOXES AND CIRCUITS AS REQUIRED BY AT&T
4. AC UNITS WILL NOT OPERATE AT THE SAME TIME

APPLICANT



PLANNING



ENGINEER



SITE INFORMATION

SITE NUMBER: SD0359
 FA NUMBER: 10085099
 ROSECRANS
 3276 ROSECRANS ST
 SAN DIEGO, CA 92110
 CITY OF SAN DIEGO
 BUILDING

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
1	08/07/2019	100% CD'S REVISED-ELECT	BM
2	05/17/2019	100% CD'S REVISED-JX	DGM
3	04/25/2019	100% CD'S REVISED-JX	TB
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PROFESSIONAL STAMP



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SHEET TITLE

ELECTRICAL NOTES,
ABBREVIATIONS, &
ELECTRICAL LEGEND

SHEET NUMBER

E-1



SITE NUMBER: SD0359
FA NUMBER: 10085099
ROSECRANS
3276 ROSECRANS ST
SAN DIEGO, CA 92110
CITY OF SAN DIEGO
BUILDING

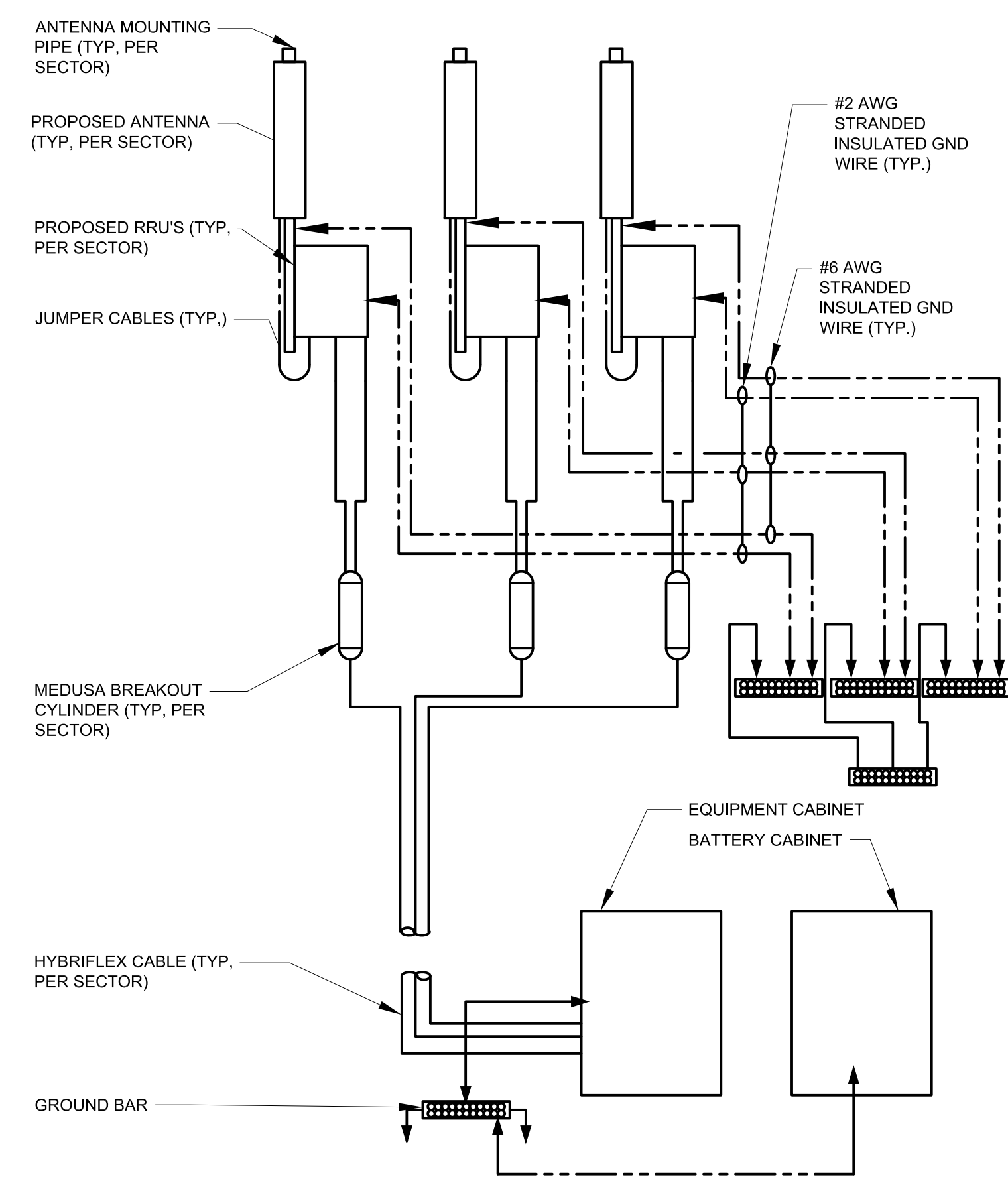
REV	DATE	DESCRIPTION	BY
Δ	08/07/2019	100% CD'S REVISED-ELECT	BM
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2	01/18/2019	100% CD'S REVISED	DAM
1	01/03/2019	100% CD'S REV-SIMS/LOA	BM
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A	10/19/2018	90% CD'S FOR REVIEW	DAM



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SINGLE LINE DIAGRAM,
GROUNDING PLAN, &
PANEL SCHEDULE

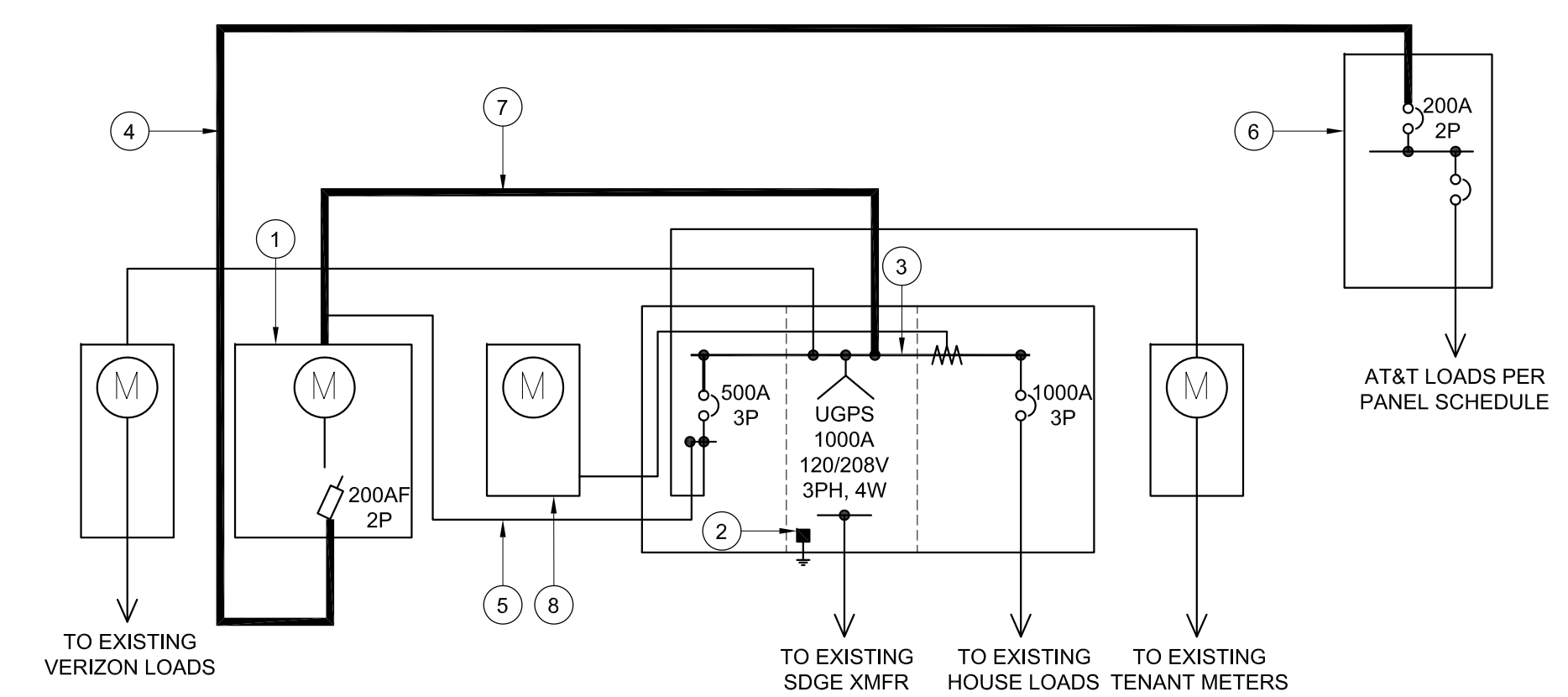
E-2



GROUNDING RISER DIAGRAM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4



- KEY NOTES:**
- EXISTING AT&T METER PANEL. REPLACE EXISTING FUSES AND PROVIDE/INSTALL NEW 200A BUSMANN TYPE 'JUN' T FUSES (AIC=200,000)
 - EXISTING MAIN ELECTRICAL SERVICE GROUND
 - EXISTING MAIN SWITCHBOARD, 120/208V, 3PHASE, 4WIRE, PROVIDE/INSTALL NEW 200A TAP LUGS, PURCHASE LUGS FROM PACIFIC ELECTRIC (NO EQUAL)
 - REPLACE EXISTING CONDUIT AND FEEDERS AND PROVIDE/INSTALL NEW 2" CONDUIT WITH 3#3/0 + 1#6 GND THNN CU ELECTRICAL FEEDERS
 - REMOVE EXISTING CONDUIT AND FEEDERS AND CAP KNOCKOUTS AS NEEDED
 - EXISTING AT&T PANEL BOARD, REPLACE EXISTING MAIN 150A/2P BREAKER AND PROVIDE/INSTALL NEW 200A/2P (TYPE AND STYLE TO MATCH EXISTING)
 - PROVIDE/INSTALL NEW 2" CONDUIT WITH 3#3/0 + 1#6 GND THNN CU ELECTRICAL FEEDERS
 - EXISTING HOUSE METER PANEL

ELECTRICAL SINGLE LINE DIAGRAM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

SITE NAME:	ROSECRANS	MODEL NUMBER:	P1X42MC400CT
SITE NUMBER:	SD0359	PHASE:	1 PHASE
VOLTAGE:	240/120 VOLTS AC	BUSS RATING:	200 AMPS
MAIN BREAKER:	200 AMPS	WIRE:	3
MOUNT:	SURFACE		
ENCLOSURE TYPE:	-		
PANEL STATUS:	EXISTING		

CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	DEMAND FACTOR	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	DEMAND FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT	
1	RECEPTALS	20	1			1.00	1.00	900	3640								2	
3	RECEPTALS	20	1			1.00	1.00	3640	900						2	50	A/C 1	4
5	AIR HANDLER	20	2					700	1320						2	20	RECTIFIER #4	6
7								1320	700									8
9	SPACE																	10
11	RECEPTALS	15	1					1320	900						2	20	RECTIFIER #6	12
13	LOSS PWR RELAY	15	1					100	1320						2	20	RECTIFIER #5	14
15	SPARE	15						1320							2	20	RECTIFIER #5	16
17	SPARE	15						1320	1320						2	20	RECTIFIER #5	18
19	SPACE							1320							2	20	RECTIFIER #3	20
21	A/C 2	50	2					3640	1320						2	20	RECTIFIER #3	22
23								1320	3640						2	20	RECTIFIER #2	24
25	NOKIA EQUIP	30	1					1320	1320						2	20	RECTIFIER #2	26
27	NOKIA EQUIP	30	1					1320	1320						2	20	RECTIFIER #7	28
29	SPACE							1320							2	20	RECTIFIER #7	30
								18220	19020									

TOTAL	KVA	29.96
	AMPS	124.8
≤ 80% OF MAIN BREAKER		
37240VA - 7280VA (REDUNDANT AC) = 29,960VA		

PANEL SCHEDULES

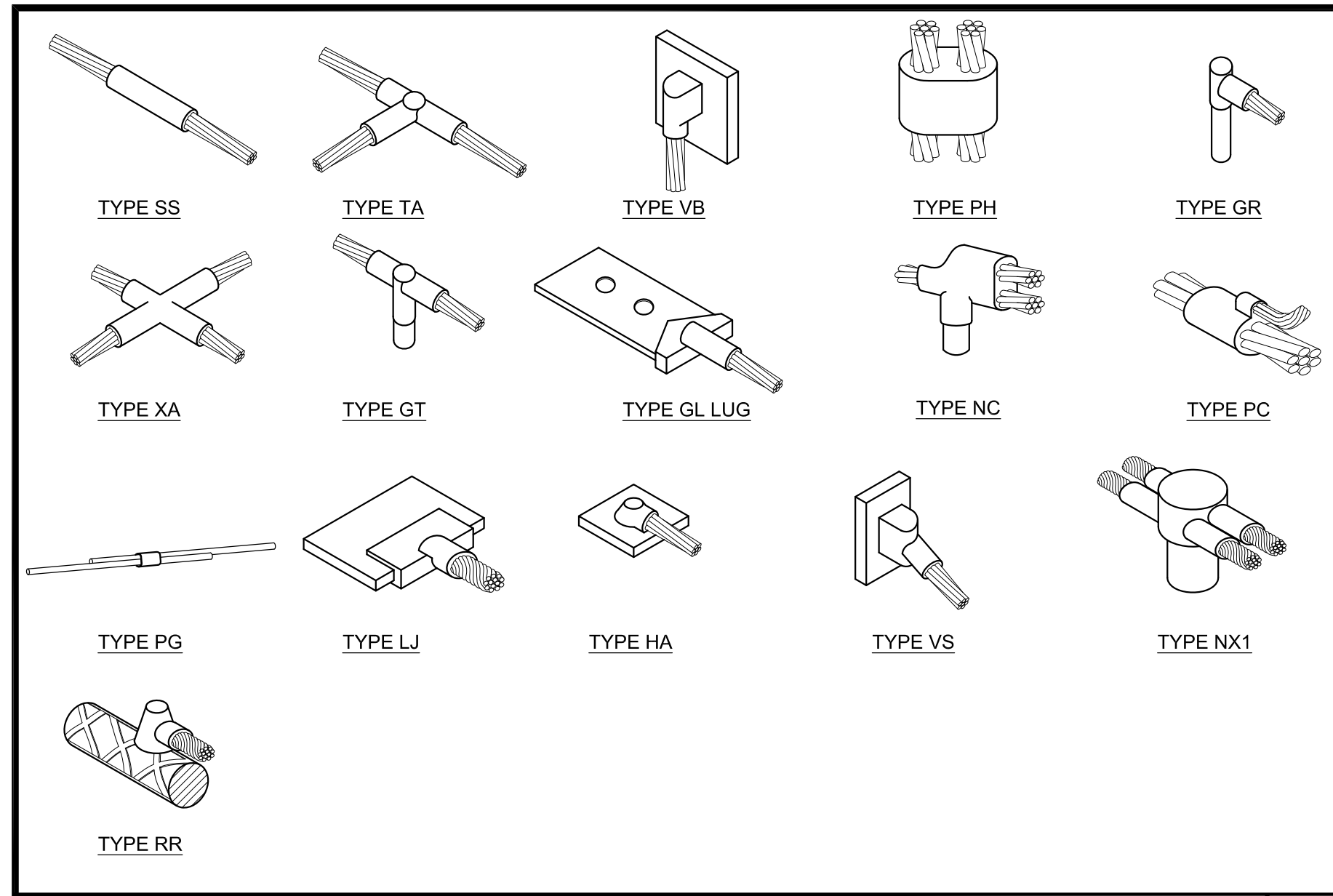
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

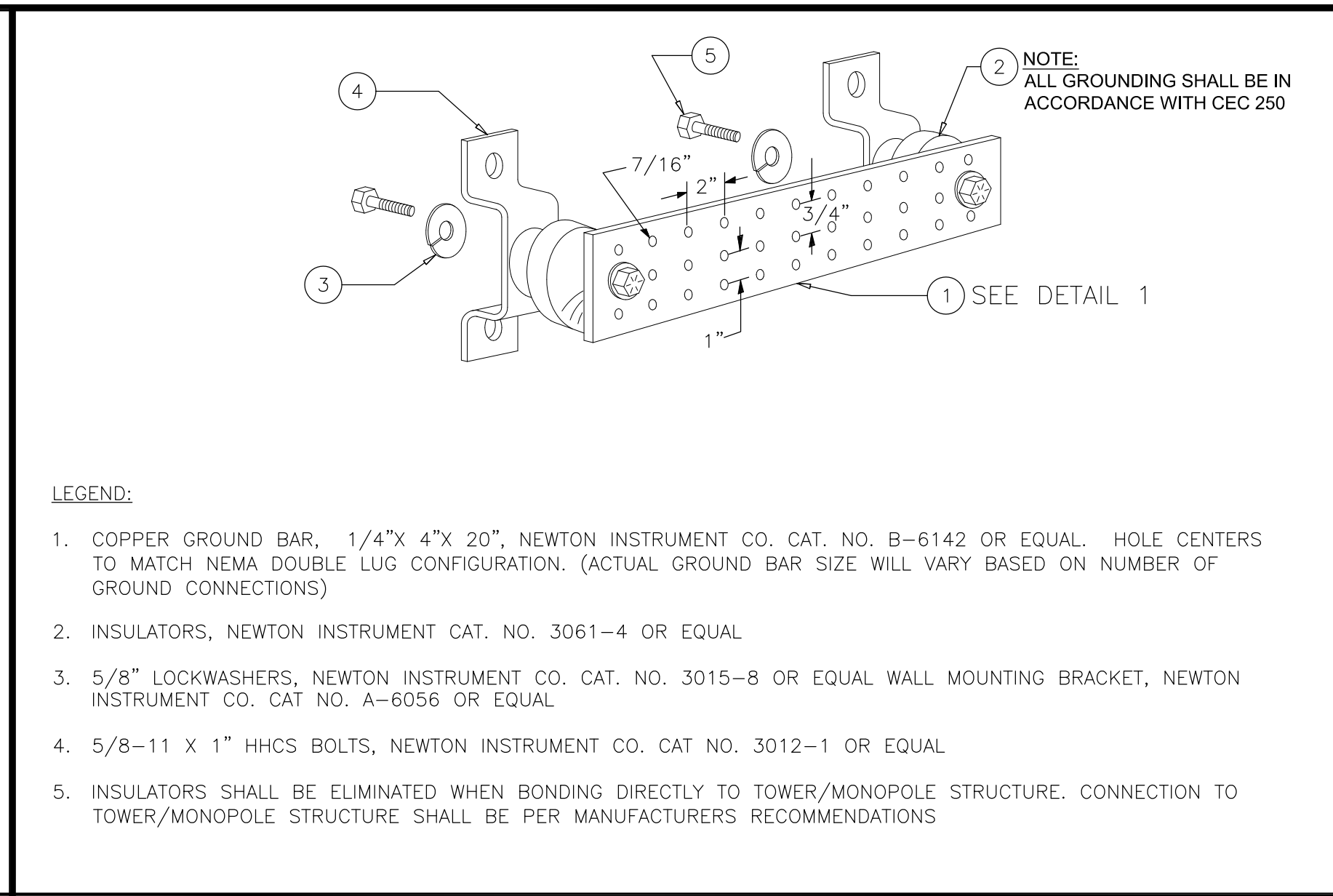
ELECTRICAL SINGLE LINE DIAGRAM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

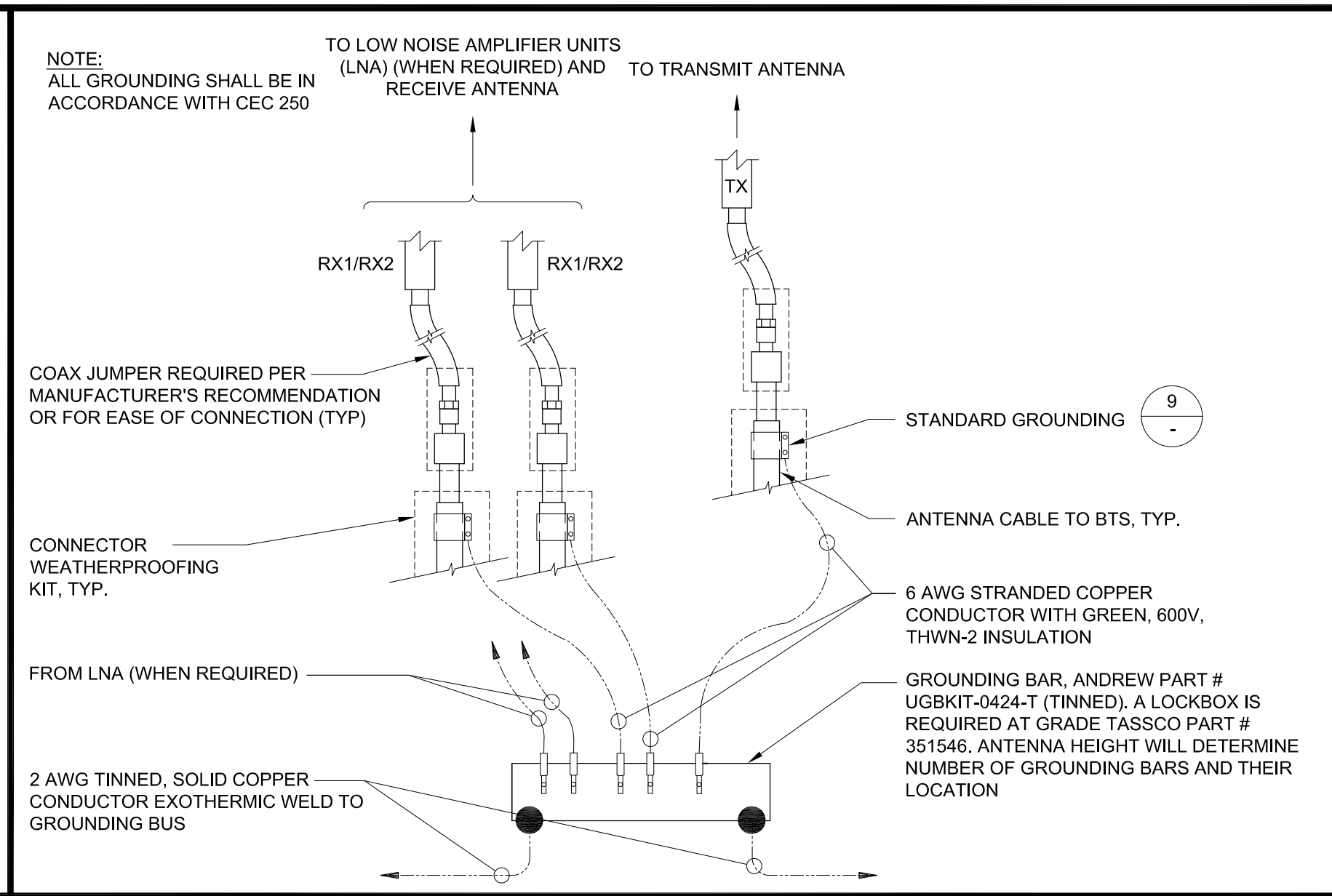
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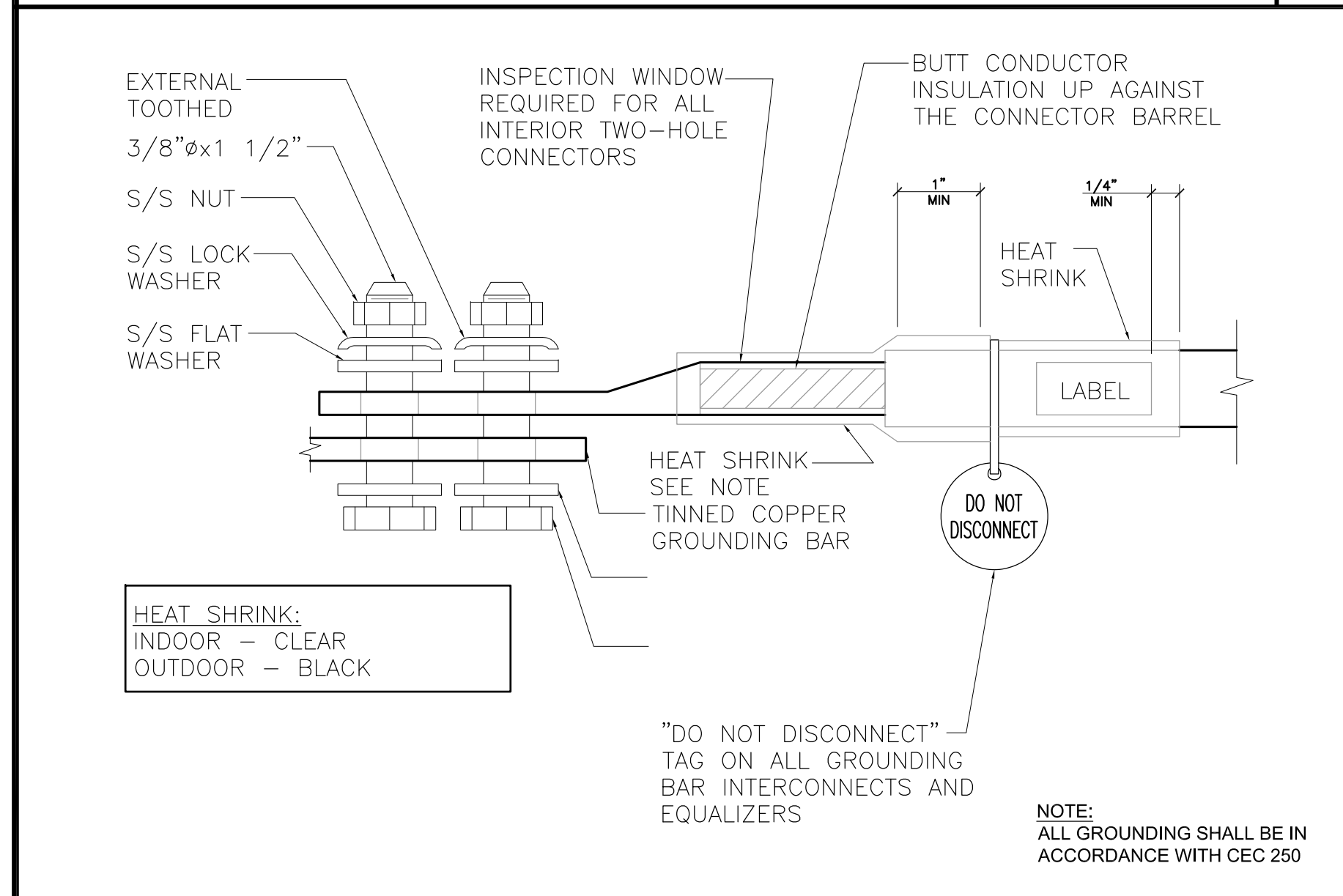
TYPICAL CADWELD TYPES 24"x36" SCALE: NTS
11"x17" SCALE: NTS



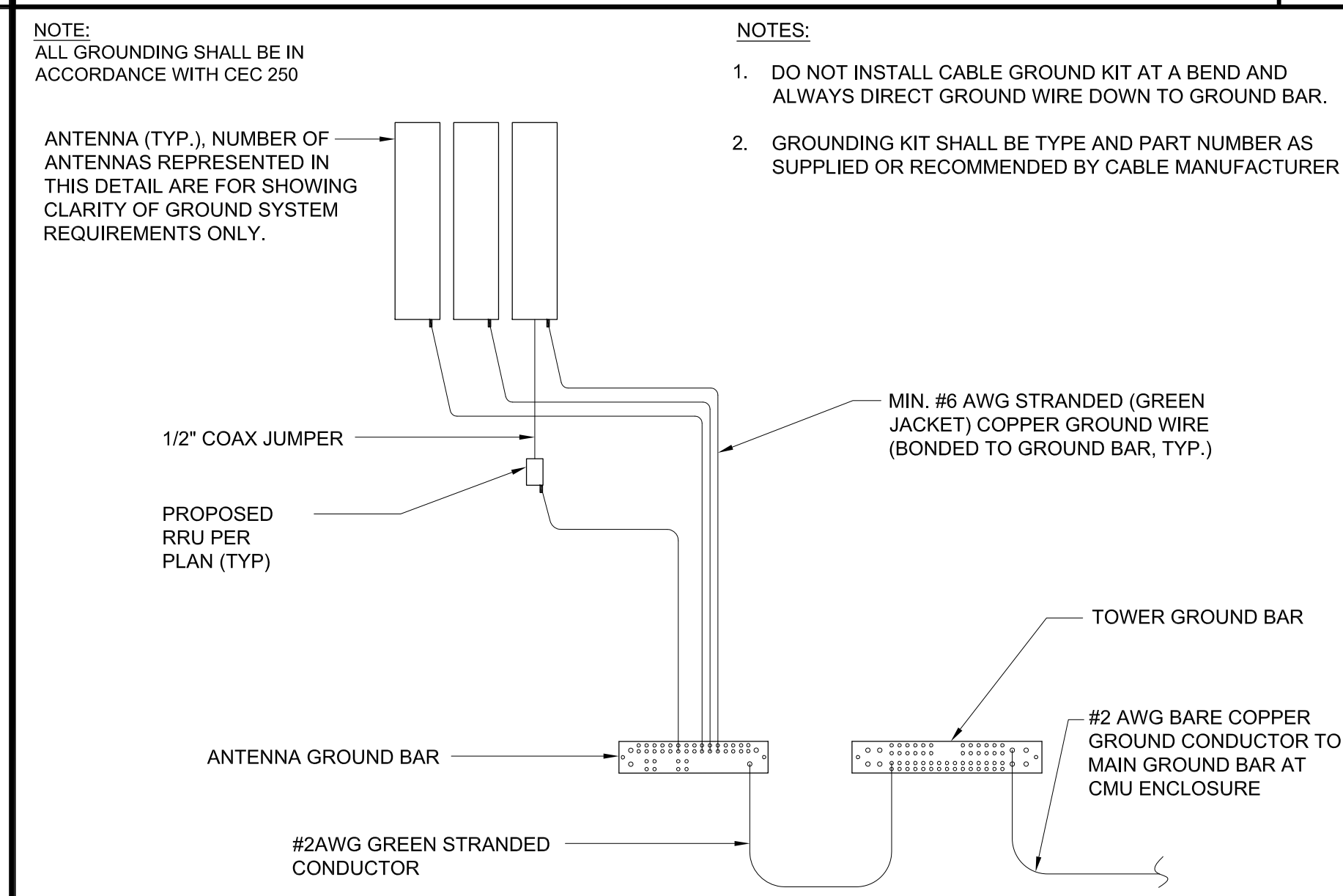
EXISTING GROUNDING BAR DETAIL 24"x36" SCALE: NTS
11"x17" SCALE: NTS



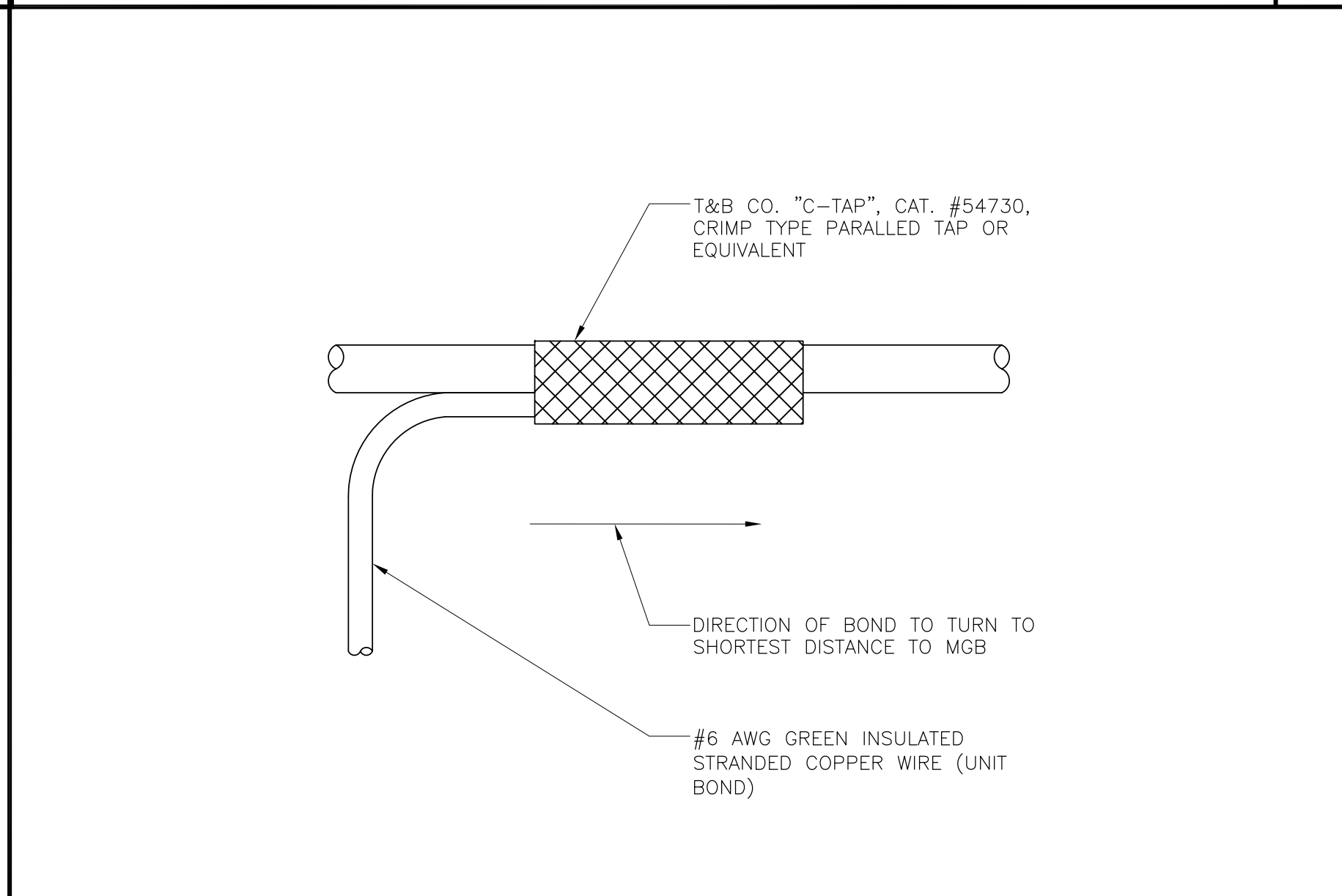
GROUNDING BAR CONNECTION 24"x36" SCALE: NTS
11"x17" SCALE: NTS



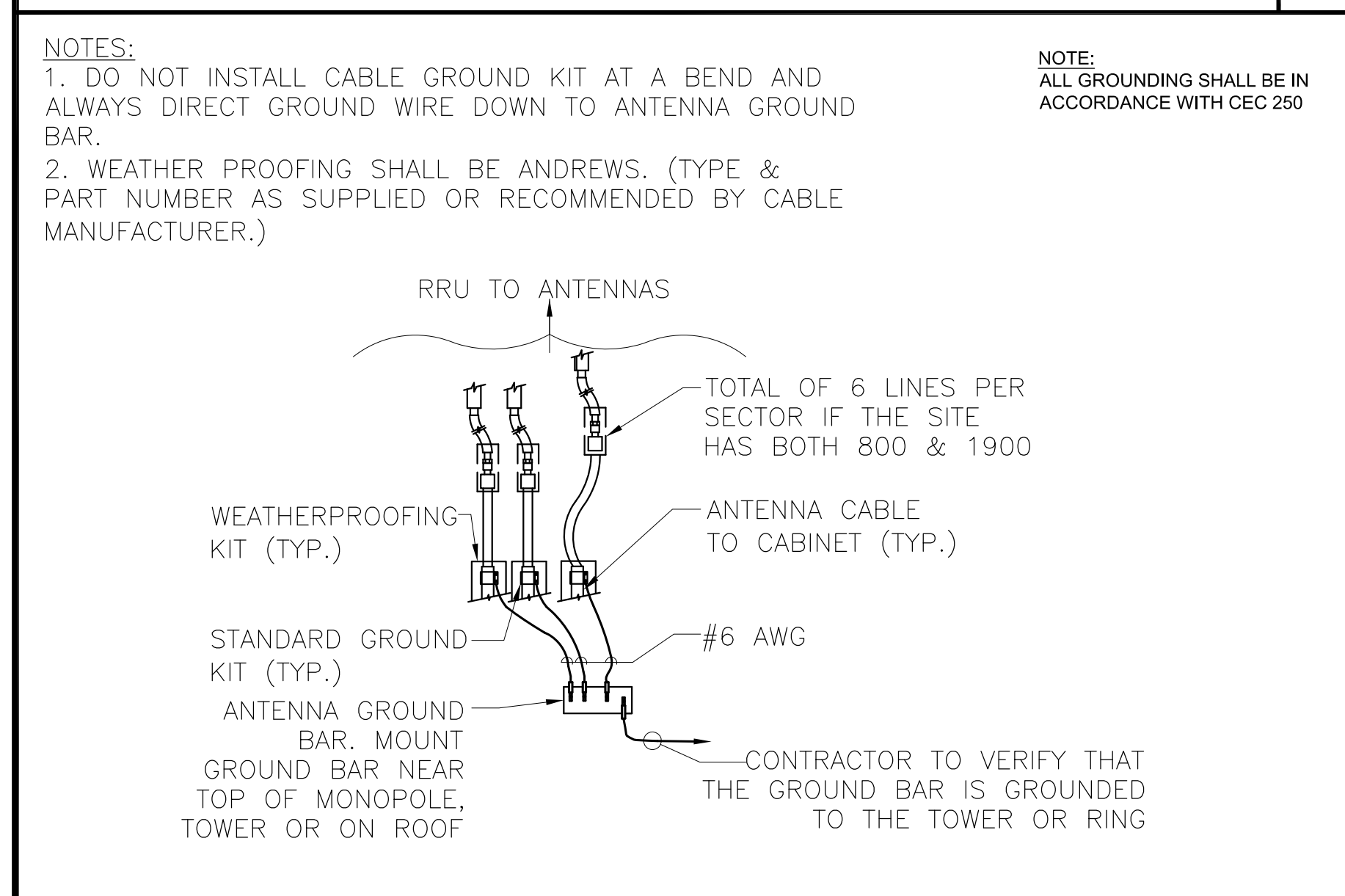
GROUND LUG TO BUS BAR 24"x36" SCALE: NTS
11"x17" SCALE: NTS



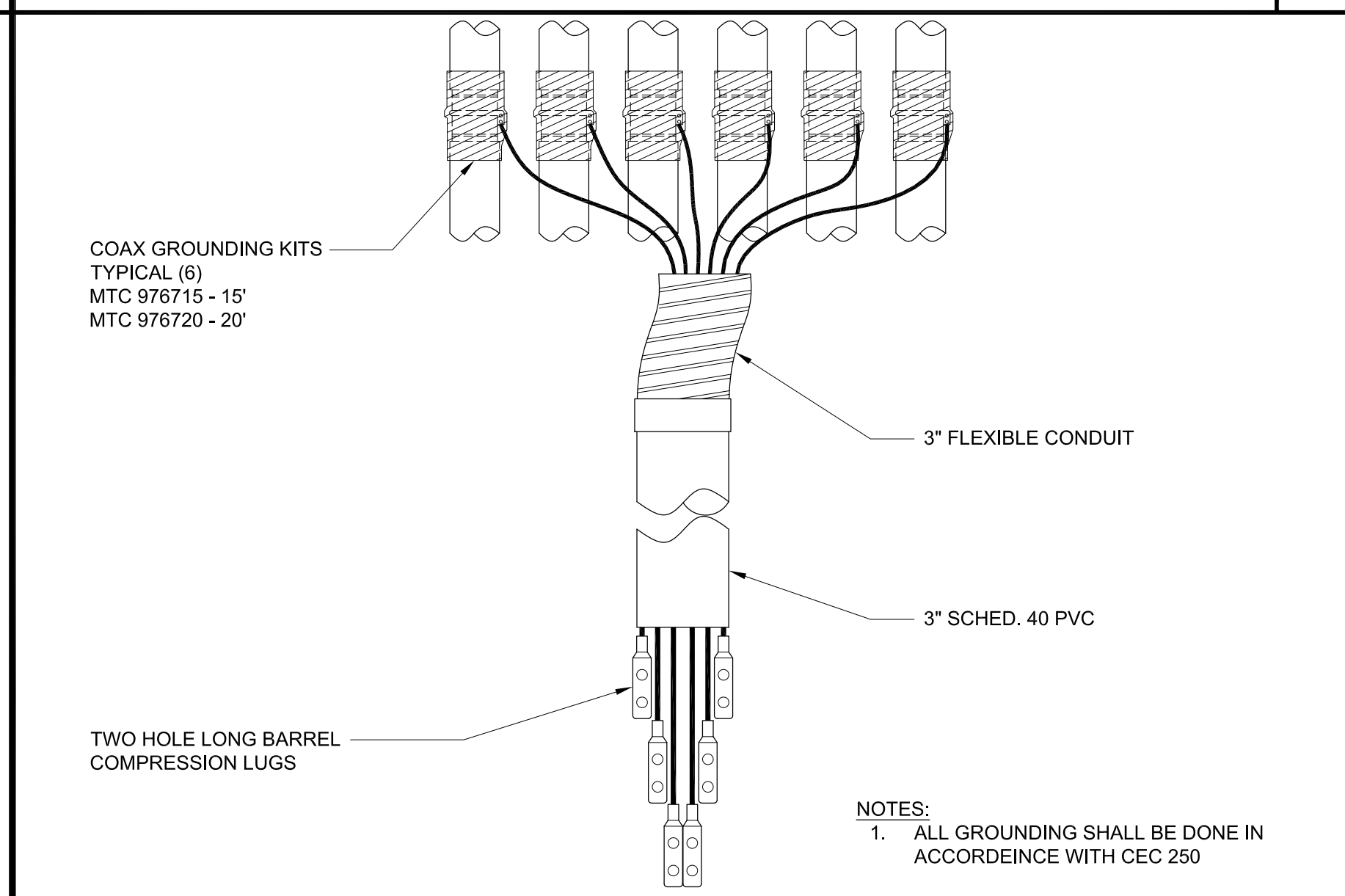
ANTENNA GROUNDING PLAN 24"x36" SCALE: NTS
11"x17" SCALE: NTS



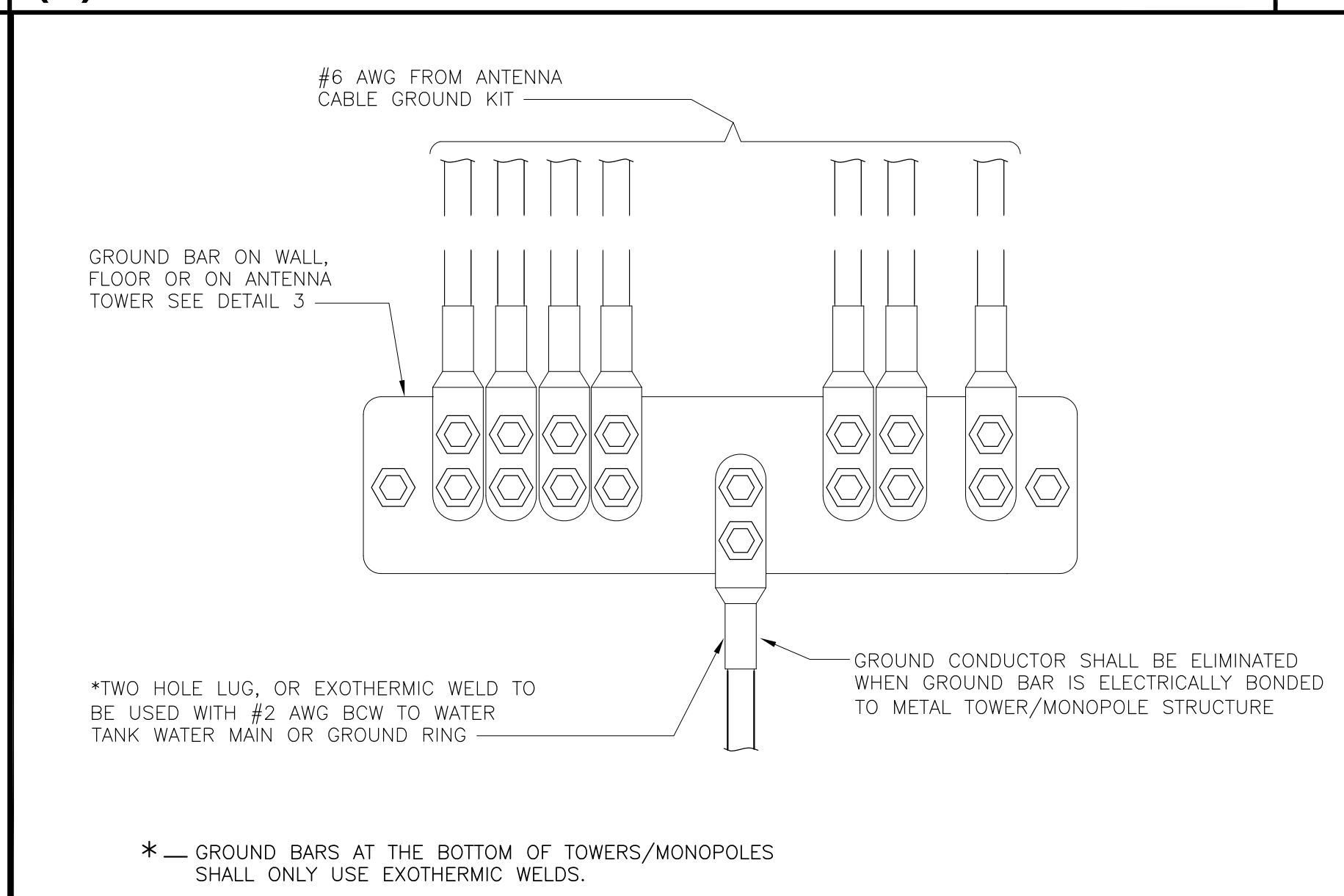
(E) GROUNDING WIRE CONNECTION 24"x36" SCALE: NTS
11"x17" SCALE: NTS



TYPICAL COAX GROUNDING 24"x36" SCALE: NTS
11"x17" SCALE: NTS



COAX GROUND KIT 24"x36" SCALE: NTS
11"x17" SCALE: NTS



(E) WIRE TO GROUND BAR CONNECTION 24"x36" SCALE: NTS
11"x17" SCALE: NTS

APPLICANT

PLANNING

13948 CALLE BUENO GANAR
JAMUL, CA 91935

ENGINEER

1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6624

SITE INFORMATION

SITE NUMBER: SD0359
FA NUMBER: 10085099
ROSECRANS
3276 ROSECRANS ST
SAN DIEGO, CA 92110
CITY OF SAN DIEGO
BUILDING

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
1	08/07/2019	100% CD'S REVISED-ELECT	BM
2	05/17/2019	100% CD'S REVISED-JX	DGM
3	04/25/2019	100% CD'S REVISED-JX	TB
4	04/03/2019	100% CD'S REVISED-JX	TB
5	02/20/2019	100% CD'S REVISED-JX	BM
6	01/18/2019	100% CD'S REVISED	DAM
7	01/03/2019	100% CD'S REV-SIMS/LOA	BM
8	12/17/2018	100% CD'S FOR SUBMITTAL	DAM
9	11/21/2018	95% CD'S FOR REVIEW	DAM
10	10/19/2018	90% CD'S FOR REVIEW	DAM

PROFESSIONAL STAMP

DATE SIGNED: 08/07/2019

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

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-3

AT&T Entitlement Renewal

CAL00359/10085099

3276 Rosecrans St.,

San Diego, CA 92110

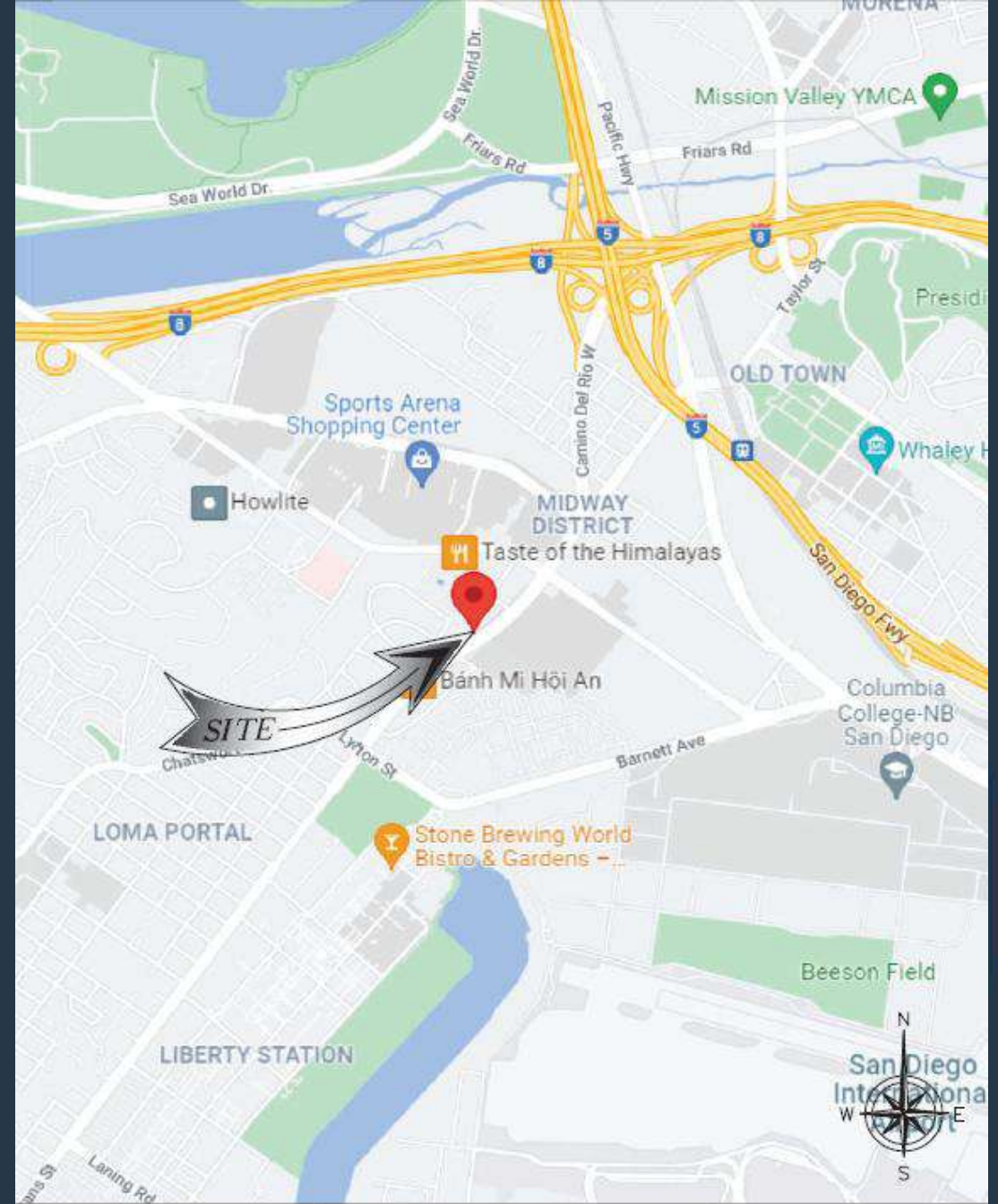
MD7



AT&T

Target Area Summary

- The AT&T existing facility has been operating at this location for over 10 years, under the Neighborhood Use Permit (NUP)-232362, and has provided reliable coverage for the Rosecrans community.
- This has improved coverage for: The Door Christian Church Point Loma Church, local businesses like the Kebab Shop, Howard Johnson by Wyndham, and Dewey Elementary School.
- The existing structure is a 39'-6" building mounted facility.



Scope of Work

■ AT&T will be modifying the existing site to include the following

The Removal of:

- (9) Existing Antennas
- (3) Existing Marathon Batteries

The Installation of:

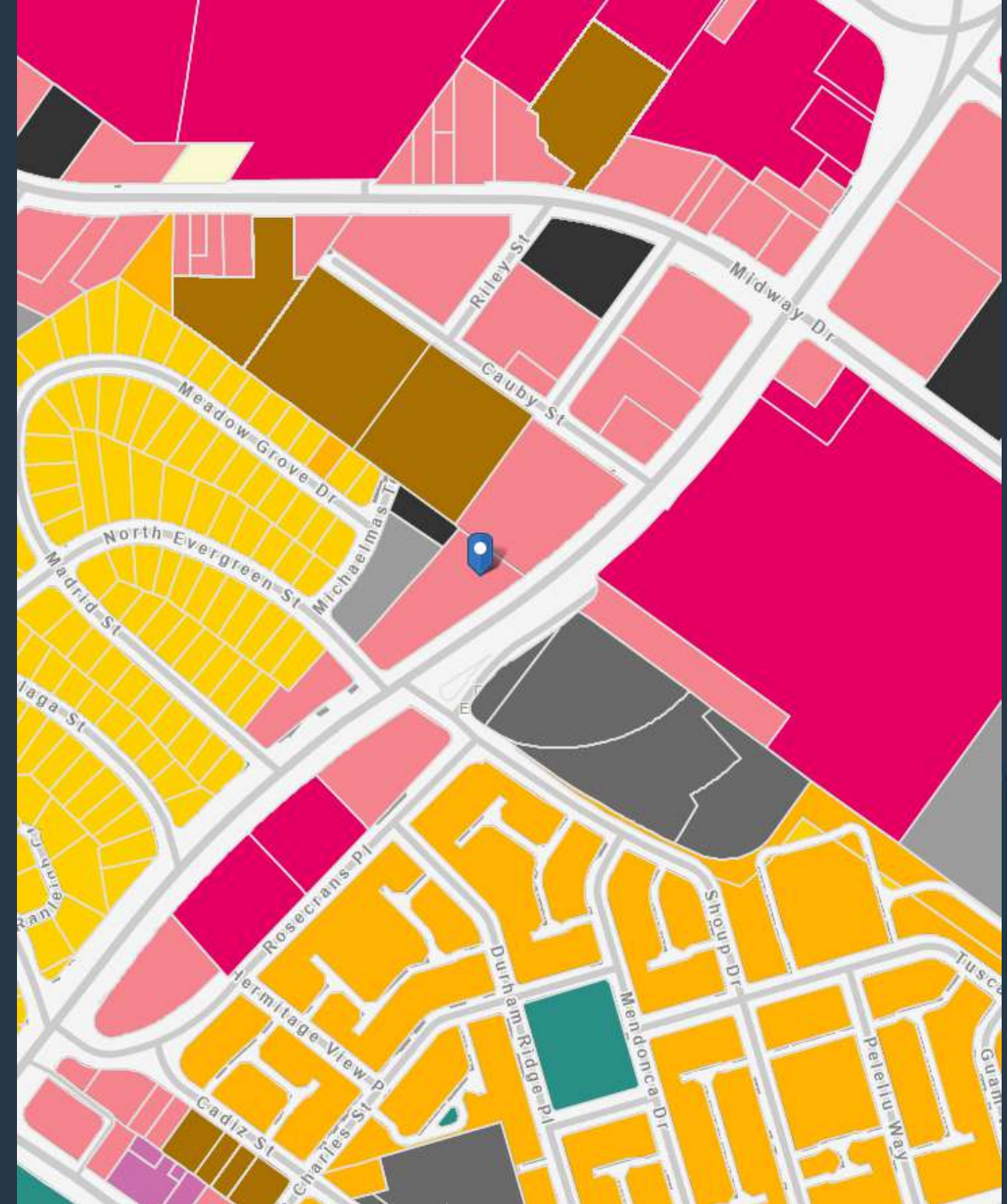
- (9) Antennas
- (3) Radio Remote Units
- (7) Batteries

Zoning and Land Uses

Zone: Commercial and Office

Surrounding uses:

- **North: Multiple Family**
- **South: Mobile Home**
- **East: Shopping Centers**
- **West: Single Family Detached**



Enlarged Site Plan

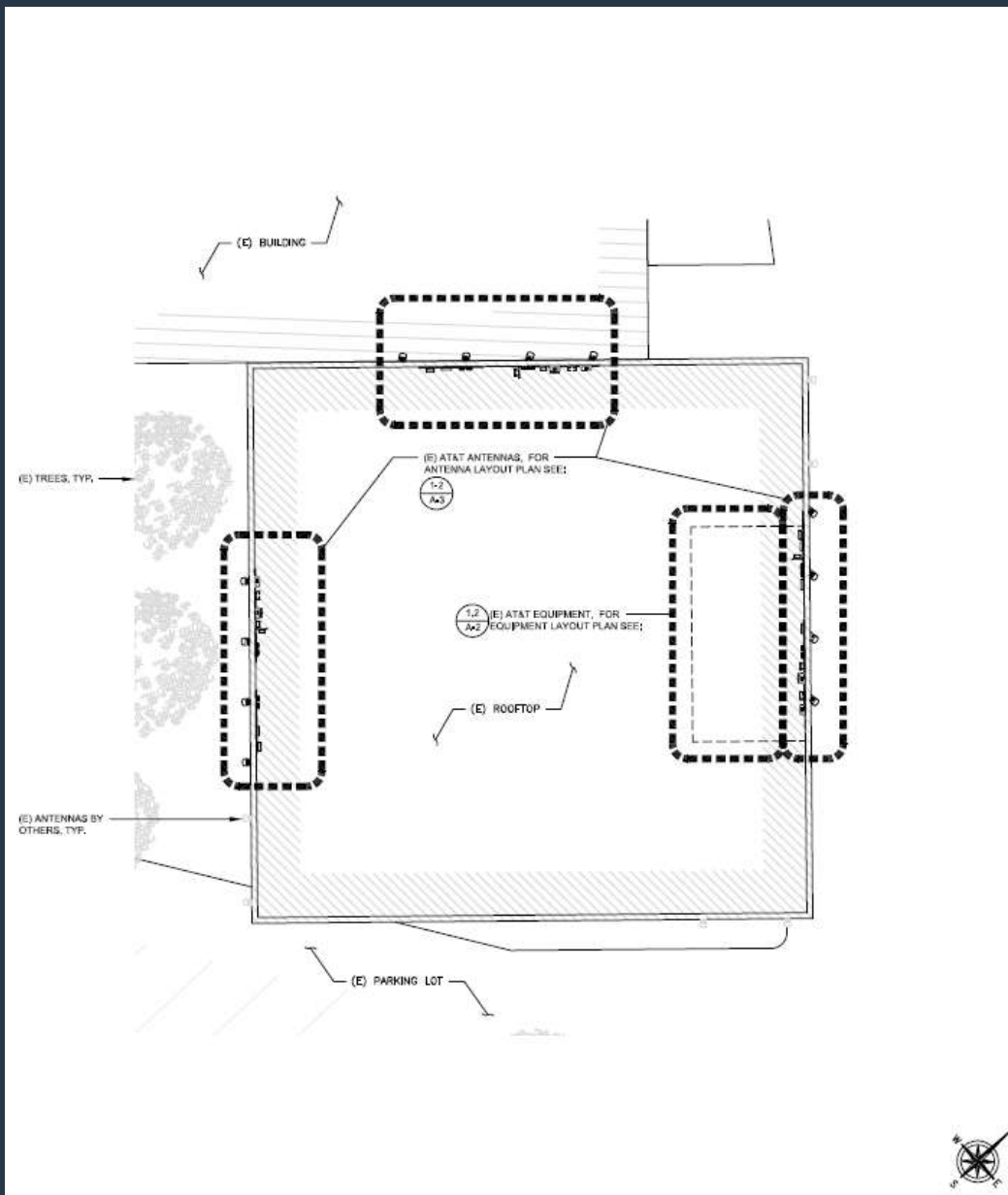


Photo Simulations – View 1



EXISTING



(N) AT&T PANEL ANTENNA MOUNTED ON (N) PIPE MOUNT W/ (N) CHINSTRAP AND SKIRT; (2 PER SECTOR, 6 TOTAL)

PROPOSED

VIEW 1 | SECTOR 'A' | LOOKING NORTHWEST

Photo Simulations – View 2

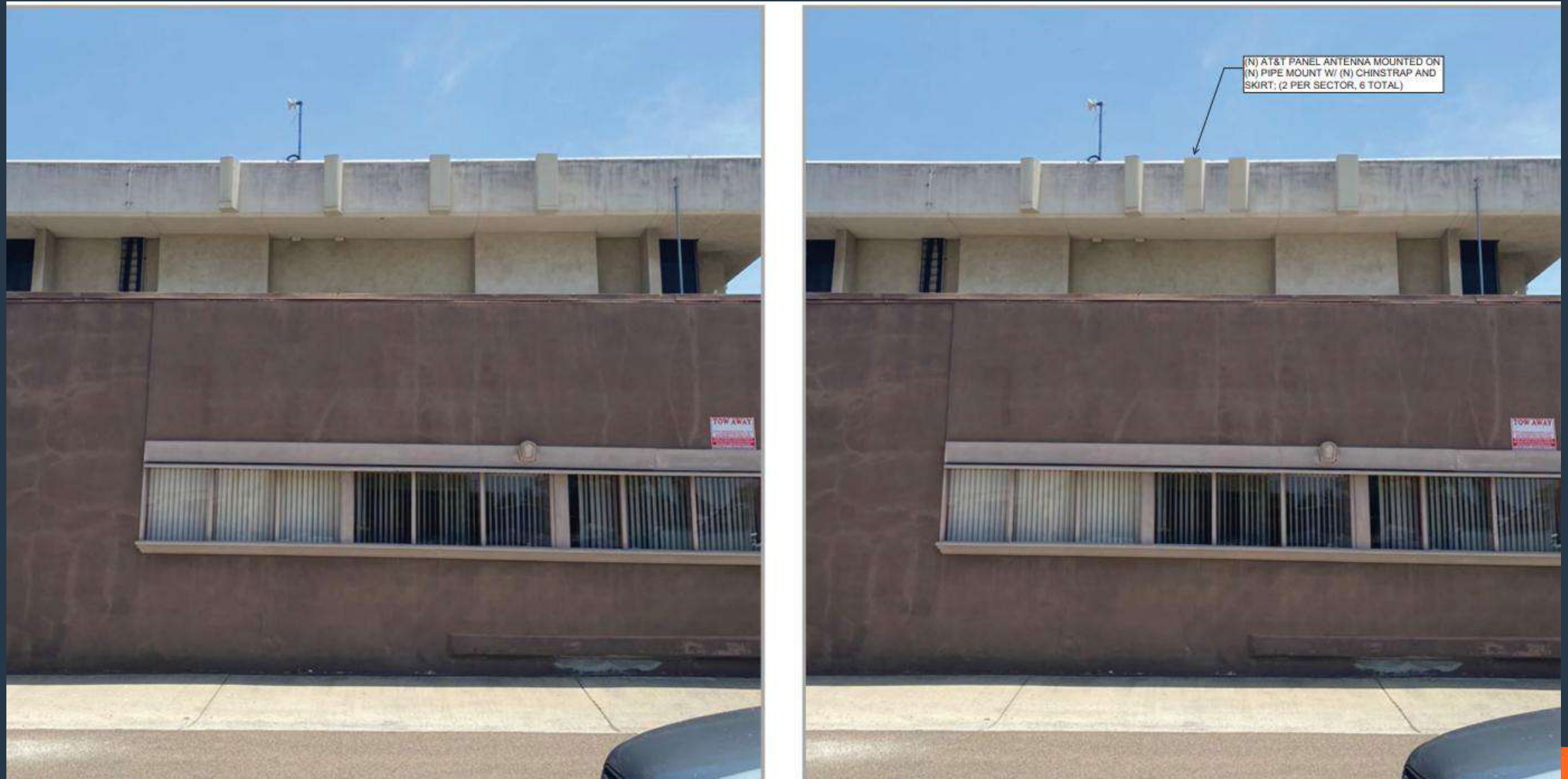
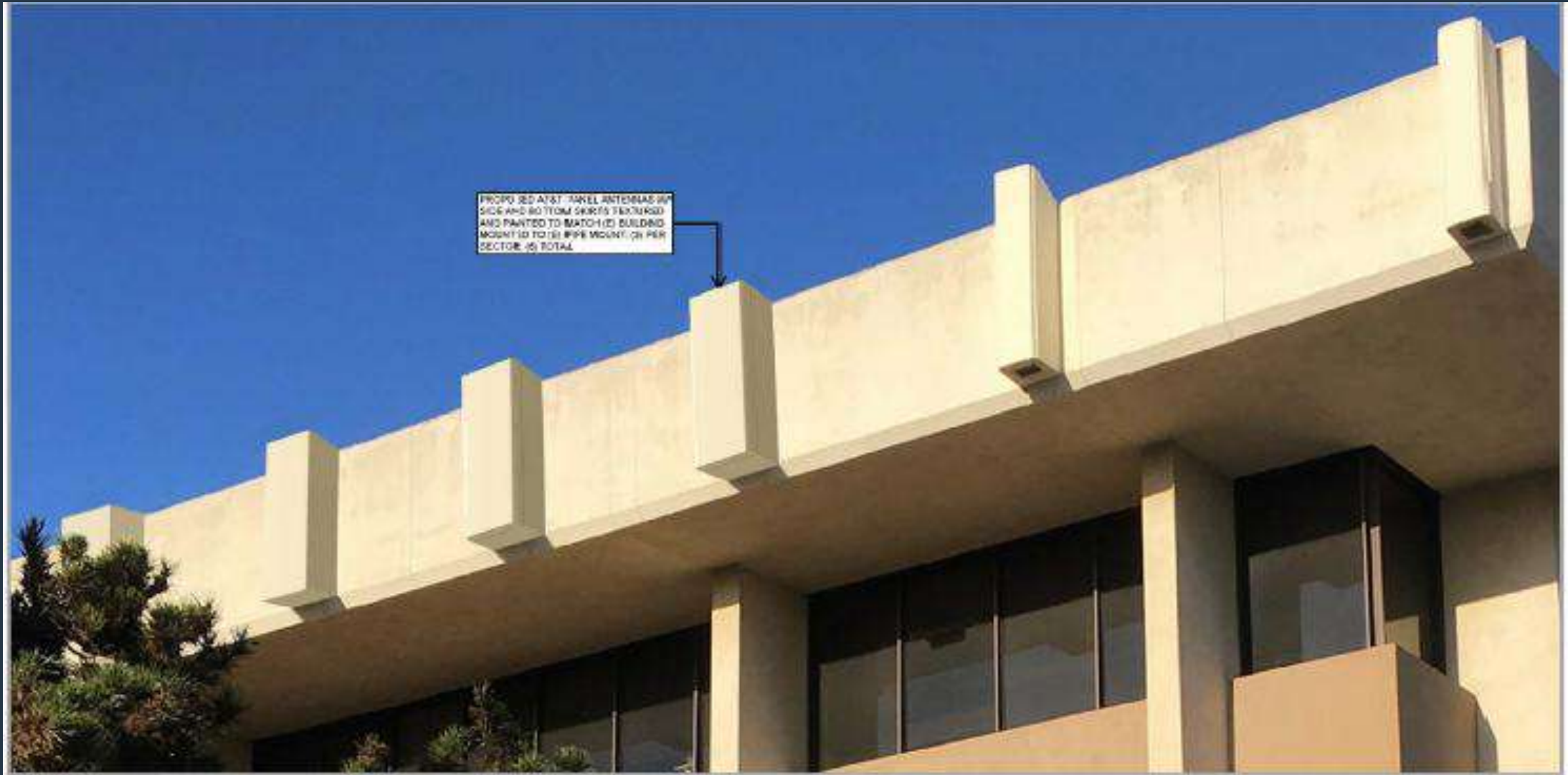


Photo Simulations – View 3

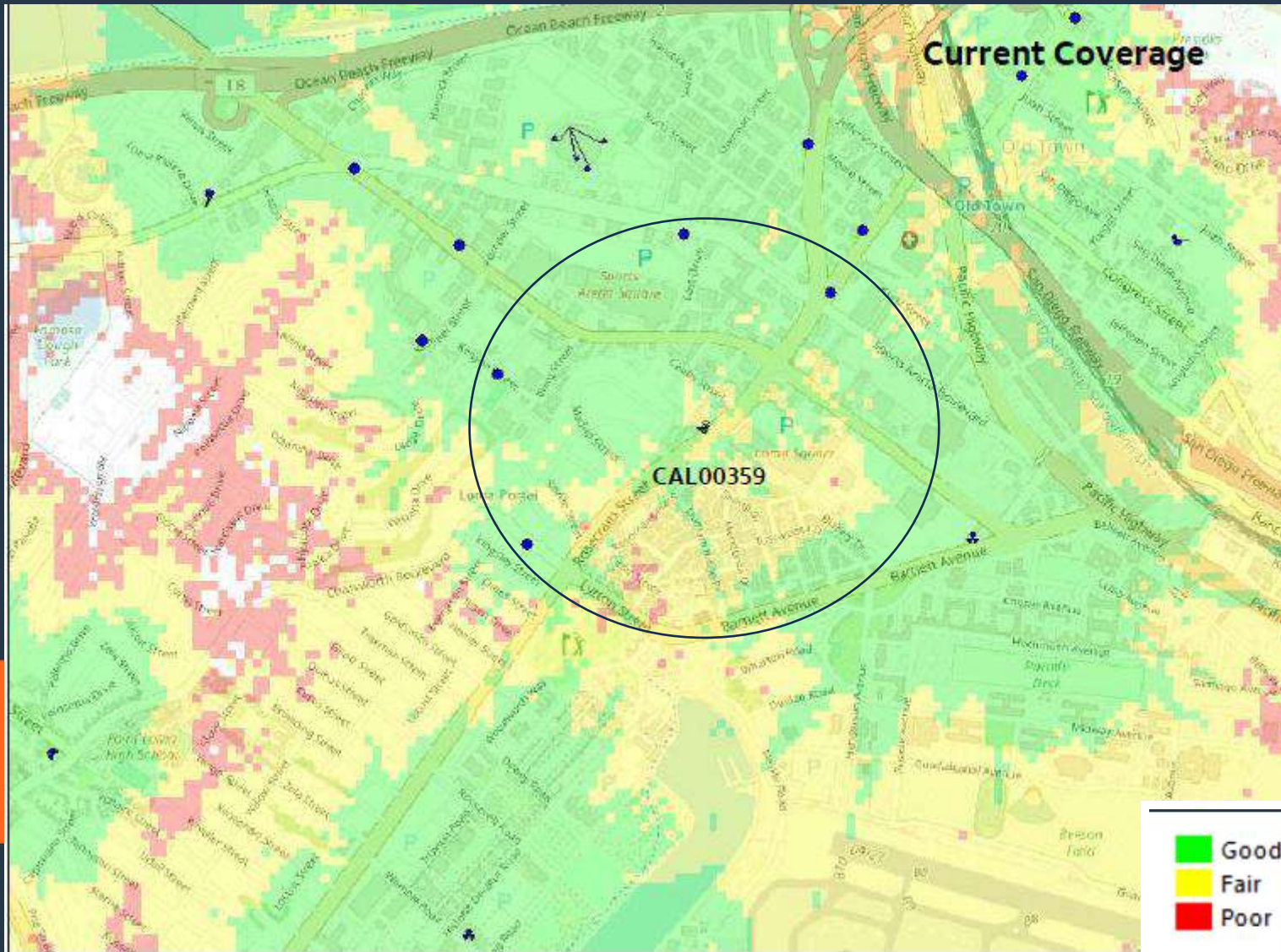


PROPOSED 3D ANTENNA PANEL ANTENNAS W/ SIDE AND BOTTOM SKIRTS TEXTURED AND PAINTED TO MATCH (2) BUILDING MOUNTED TO (2) PIPE MOUNT (2) PER SECTOR (6) TOTAL

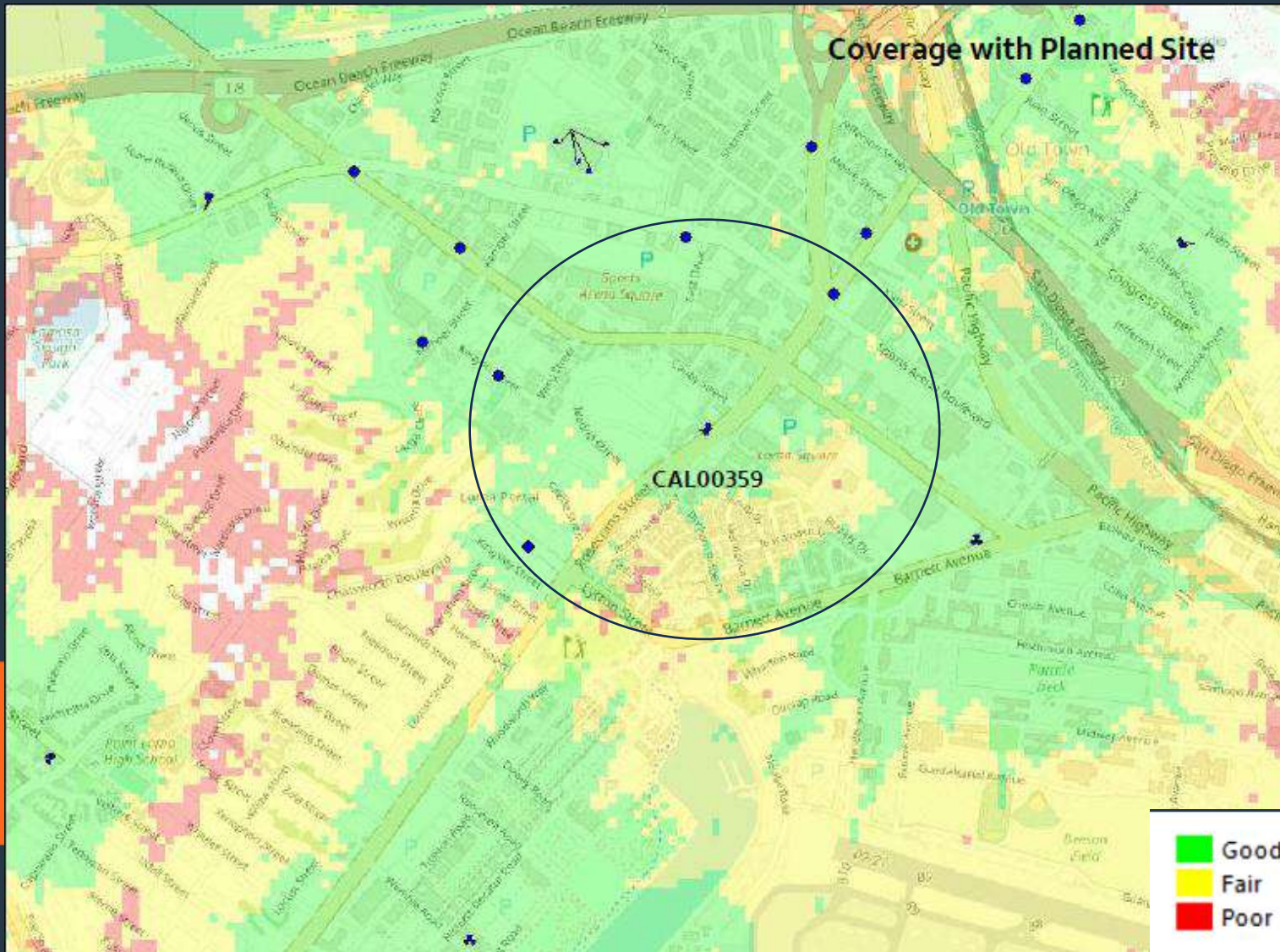
PROPOSED

VIEW 2 : CLOSE-UP

Coverage without our site



Coverage with our site



Site Summary

To conclude, this existing facility has been operating at this location for over 10 years, under NUP-232362.

- We are removing and replacing the existing equipment.
- This site has complied with the City of San Diego's concealment requirements and the new equipment has been properly screened by incorporating the existing building's material and color to create a natural appearance.
- We look forward to maintaining our relationship with the Rosecrans community and neighboring residents to ensure reliable coverage.

MD7

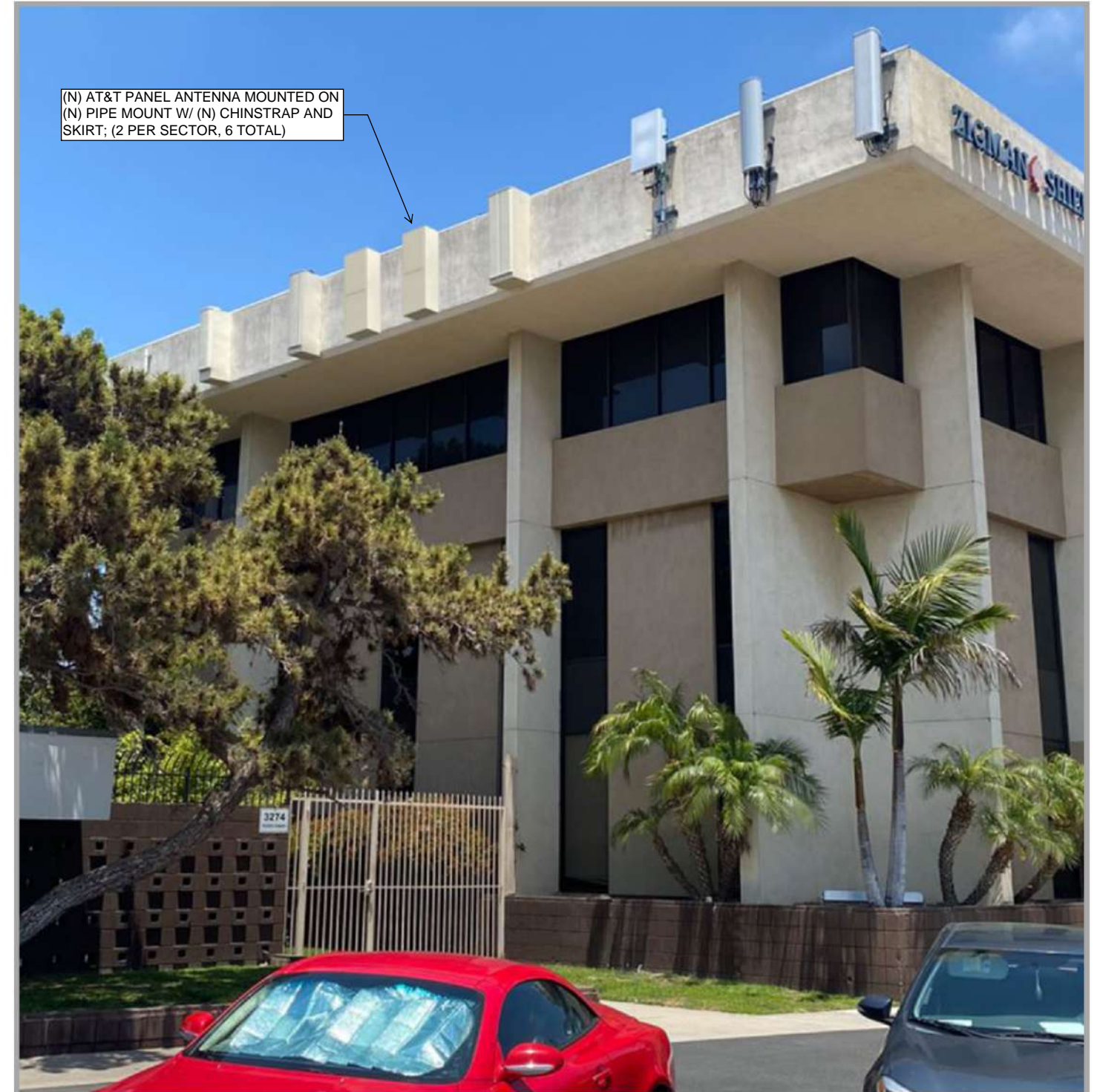


EXISTING



PROPOSED

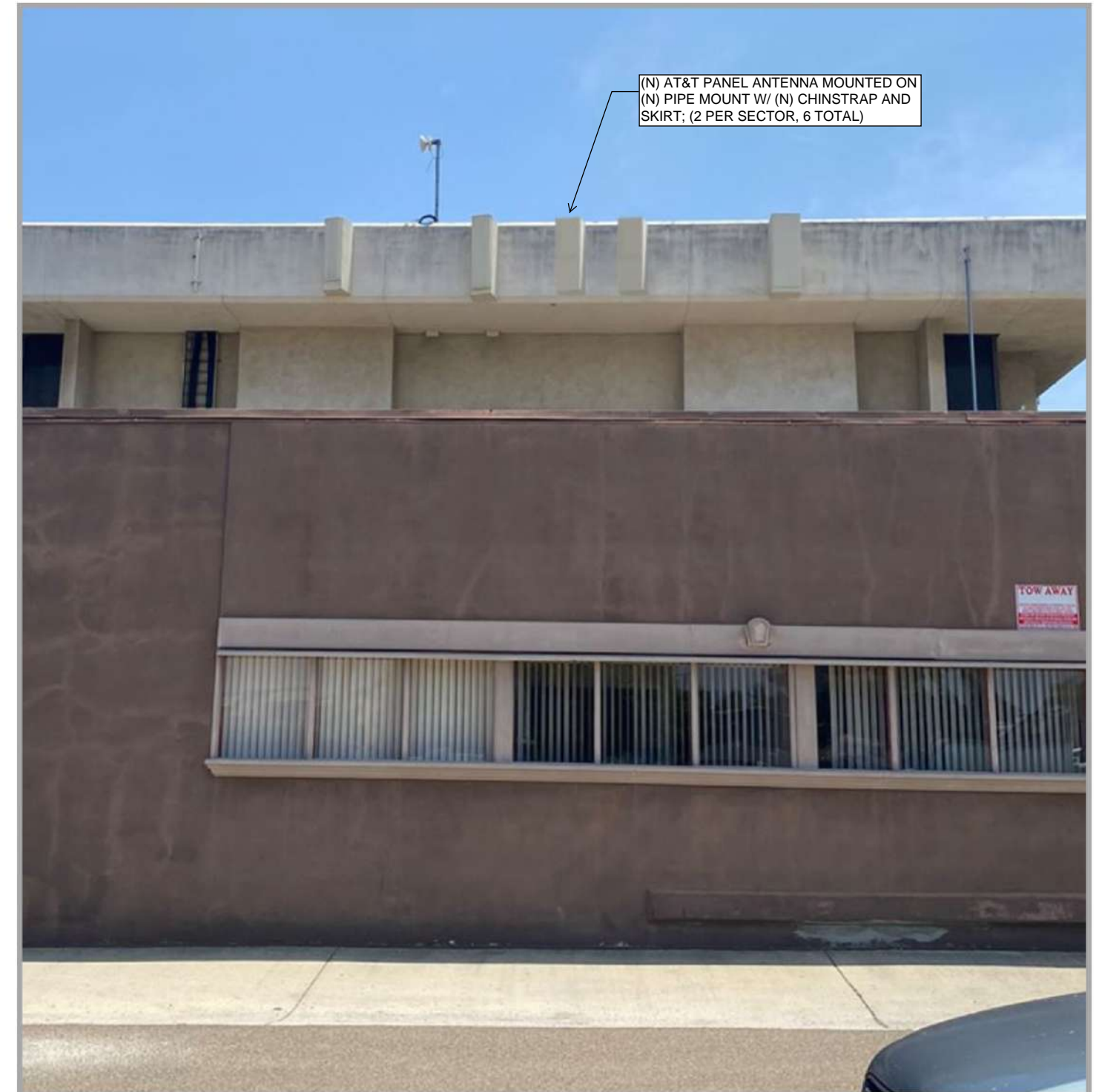
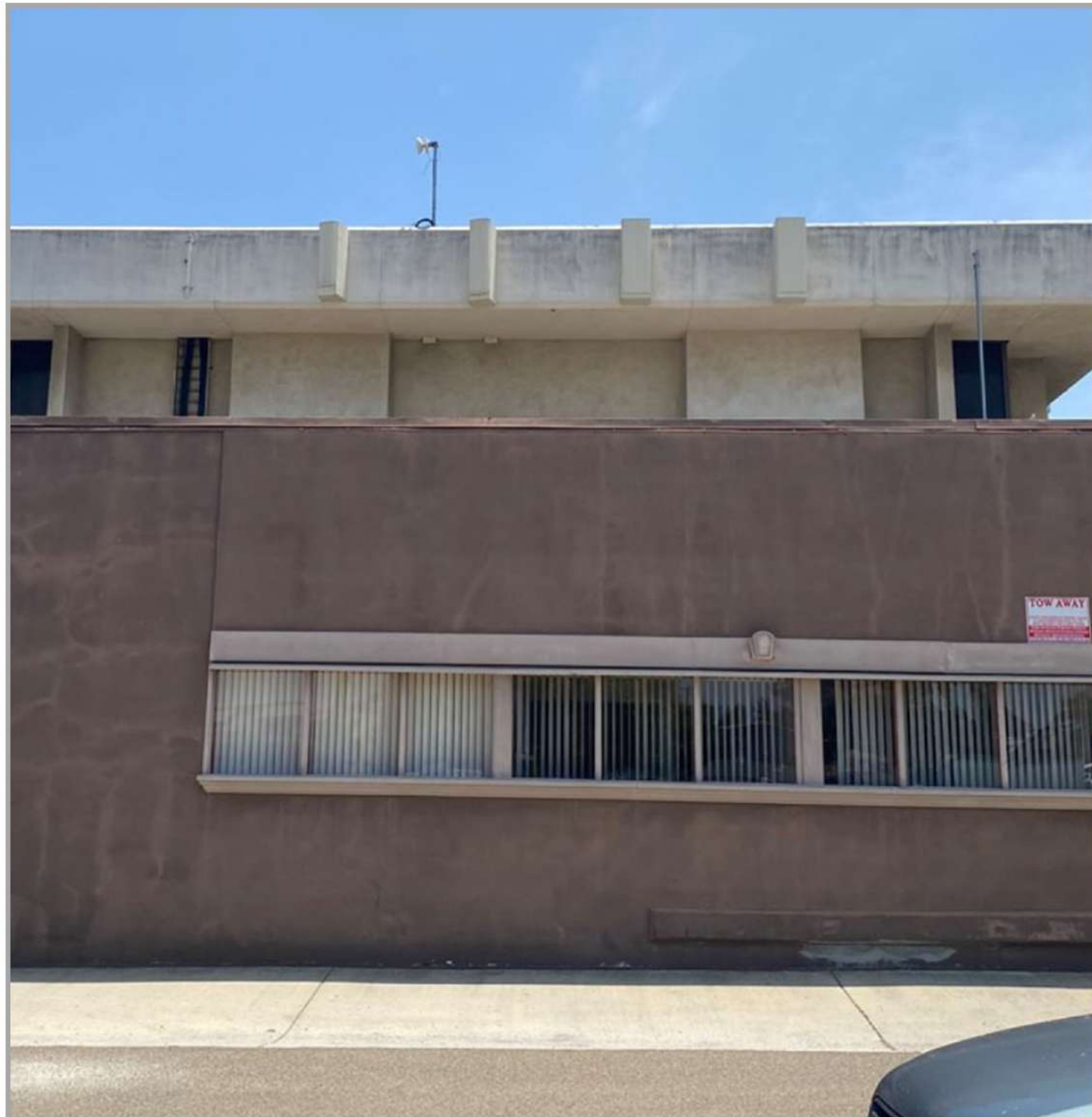
VIEW 1 | SECTOR 'A' | LOOKING NORTHWEST



EXISTING

PROPOSED

VIEW 2 | SECTOR 'B' | LOOKING NORTH



EXISTING

PROPOSED

VIEW 3 | SECTOR 'C' | LOOKING SOUTHEAST

CAL00359

Coverage Plots

CAL00359

