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# CARDENO DR AND ALTA LA JOLLA DR SITE ID: SD0777

1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037

## FA: 10099930

LTE 4C / 5C FNET / 5G NR

MRSDL019835 / MRSDL033562 / MRSDL033647

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



08/09/2021 9:16AM

1	08/09/21	REVIEW COMMENTS
O	03/15/21	ISSUED FOR PERMIT
E	02/24/21	100% CD SUBMITTAL
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C	10/15/20	100% CD SUBMITTAL
B	18/13/20	90% CD SUBMITTAL
A	07/20/20	90% CD SUBMITTAL

Plans Prepared For:

10590 WEST OCEAN AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130

Applicant:

Your world. Delivered.

Plans Prepared By:

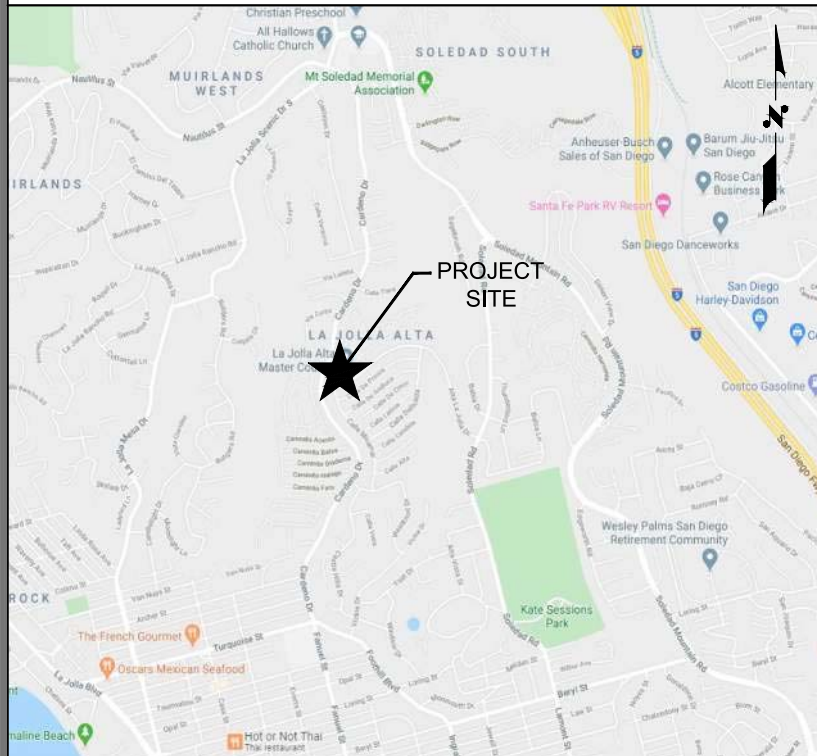
MORRISON HERSHFIELD  
5100 W MACADAM AVE, SUITE 500  
PORTLAND, OR 97239  
Tel: 503-595-9128 Fax: 503-595-9136  
www.morrisonhershfield.com

Project:  
**CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930**

Drawing Title:  
**COVER SHEET**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 1	Drawing No.: T-1

### VICINITY MAP



### SCOPE OF WORK

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

#### AT ANTENNA LEVEL:

- REMOVE (6) PANEL ANTENNAS
- REMOVE (6) RRRUS
- REMOVE (3) TMAS
- REMOVE (3) DC2'S
- REMOVE (3) FIBER LOOP BOXES
- REMOVE (1) FIBER SPLICE BOX
- INSTALL (6) PANEL ANTENNAS
- INSTALL (9) RRRUS
- INSTALL (5) DUAL RRH MOUNTS
- INSTALL (7) PIPE MOUNTS
- INSTALL (3) DC9 SURGE SUPPRESSORS
- INSTALL (3) FIBER TRUNK CABLES (24 PAIR)
- INSTALL (3) DC TRUNK CABLES (#6 AWG)

#### AT EQUIPMENT LEVEL:

- INSTALL (1) ERICSSON BASEBAND 6630
- INSTALL (1) MOUNTING KIT, ESURE POWER EXTEND CONVERTER, 26-POSITION PANEL, NETSURE™ 7100, NETSURE 710
- INSTALL (12) ESURE™ POWER EXTEND CONVERTER, -58VDC, 1000W
- INSTALL (6) 2 POLE LUG ADAPTER

EXISTING ANTENNA COUNT:	09
FINAL ANTENNA COUNT:	09
EXISTING RRU COUNT:	09
FINAL RRU COUNT:	12
NO BATTERY WORK TO BE COMPLETED	
NO ELECTRICAL WORK TO BE COMPLETED	

PROJECT VALUATION: \$45,000.00

### CONTACTS

APPLICANT:  
AT&T WIRELESS  
7337 TRADE STREET  
SAN DIEGO, CA 92121

#### PROJECT MANAGER:

MD7  
ROBERT POLITO  
10590 W. OCEAN AIR DRIVE,  
STE. 300, SAN DIEGO, CA 92130  
858-291-1915  
rpolito@md7.com

#### A&E CONTACT:

MORRISON HERSHFIELD CORP  
JOSH REYNOLDS  
1455 LINCOLN PKWY, SUITE 500  
ATLANTA, GA 30346  
770-379-8500  
JReynolds@morrisonhershfield.com

#### ZONING / SITE ACQUISITION:

MD7  
JUSTIN CAUSEY  
10590 W OCEAN AIR DR 300  
SAN DIEGO, CA 92130  
858-291-1869  
jcausey@md7.com

#### CONSTRUCTION:

AT&T WIRELESS  
7337 TRADE STREET  
SAN DIEGO, CA 92121

#### RF ENGINEER:

AT&T WIRELESS  
JORGE MELCHOR  
SAN DIEGO, CA 92121  
858-762-2161  
jm934p@att.com

### APPLICABLE CODES

- 2019 EDITION OF THE CALIFORNIA BUILDING CODE VOLUME 1 & 2
- 2019 EDITION OF THE CALIFORNIA MECHANICAL CODE
- 2019 EDITION OF THE CALIFORNIA PLUMBING CODE
- 2019 EDITION OF THE CALIFORNIA ELECTRICAL CODE
- 2019 EDITION OF THE EXISTING BUILDING CODE
- 2019 EDITION OF THE CALIFORNIA FIRE CODE
- 2019 EDITION OF THE CALIFORNIA ENERGY CODE
- 2019 EDITION OF THE CALIFORNIA RESIDENTIAL CODE
- 2019 EDITION OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2019 EDITION OF THE CALIFORNIA HISTORICAL BUILDING CODE
- 2018 INTERNATIONAL POOL AND SPA CODE
- 2018 INTERNATIONAL PROPERTY MANAGEMENT CODE

ADDITIONS AND MODIFICATIONS TO THE CALIFORNIA CODES:

- CALIFORNIA BUILDING CODE - CHAPTER 14, ARTICLE 5, DIVISION 1-36
- CALIFORNIA RESIDENTIAL CODE - CHAPTER 14, ARTICLE 9, DIVISION 1-45
- CALIFORNIA GREEN BUILDING STANDARDS CODE - CHAPTER 14, ARTICLE 10, DIVISION 1-6
- CALIFORNIA EXISTING BUILDING CODE - CHAPTER 14, ARTICLE 11, DIVISION 1-17



Know what's below.  
Call before you dig.

NOTE:  
48 HOURS PRIOR TO DIGGING,  
CONTRACTOR TO NOTIFY ALL UTILITY  
COMPANIES TO LOCATE ALL  
UNDERGROUND UTILITIES

### INDEX OF DRAWINGS

SHT. NO.	DESCRIPTION	REV. NO.
T-1	COVER SHEET	1
G-1	GENERAL NOTES	0
G-2	GENERAL NOTES	0
G-3	GENERAL NOTES	0
G-4	GENERAL NOTES	0
G-5	GENERAL NOTES	0
G-6	SPECIAL INSPECTION NOTES	0
PS-1	PHOTOSIMS	1
PS-2	PHOTOSIMS	1
PS-3	PHOTOSIMS	1
PS-4	PHOTOSIMS	1
A-1	SITE PLAN	1
A-2	ROOF PLAN	0
A-3	EQUIPMENT PLANS	0
A-4	EXISTING ANTENNA PLAN AND SCHEDULE	0
A-4.1	PROPOSED ANTENNA PLAN AND SCHEDULE	0
A-5	NORTHWEST ELEVATIONS	0
A-5.1	NORTHEAST ELEVATIONS	0
A-5.2	SOUTHEAST ELEVATIONS	0
A-5.3	SOUTHWEST ELEVATIONS	0
A-6	DETAILS	0
A-7	DETAILS	0
A-8	DETAILS	0
A-9	DETAILS	0
RF-1	RF SIGN LOCATION PLAN	0
E-1	GROUNDING DETAILS	0
E-2	ONE-LINE DIAGRAM	0

### APPROVALS

AT&T COMPLIANCE	_____
AT&T RF ENGINEER	_____
AT&T OPERATIONS	_____
AT&T PM	_____
CONSTRUCTION	_____
SITE ACQUISITION	_____

### DRIVING DIRECTIONS

FROM AT&T OFFICE (7337 TRADE STREET, SAN DIEGO, CA 92121):

HEAD WEST ON TRADE ST TOWARD CAMINO SANTA FE. TURN LEFT ONTO CAMINO SANTA FE. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO MIRAMAR RD. SLIGHT RIGHT TO MERGE ONTO I-5 S. TAKE EXIT 23 TOWARD BALBOA AVE/GARNET AVE. TURN RIGHT ONTO BLUFFSIDE AVE. TURN RIGHT ONTO PACIFICA DR. TURN LEFT ONTO SAN ANSELMO ST. TURN RIGHT ONTO SAN JOAQUIN DR. TURN LEFT ONTO LORING ST. TURN RIGHT ONTO SOLEDAD MOUNTAIN RD. TURN LEFT ONTO CORAL REEF AVE. TURN RIGHT ONTO BAHIA WAY. TURN LEFT AT THE 2ND CROSS STREET ONTO SOLEDAD RD. TURN RIGHT ONTO ALTA LA JOLLA DR. TURN RIGHT ONTO CAMINITO CARDELINA. RESTRICTED USAGE ROAD.

### LEGAL DESCRIPTION

LOT 8\

### PROPERTY SUMMARY

PROPERTY OWNER: LA JOLLA ALTA MASTER COUNCIL  
9610 WAPLES STREET  
SAN DIEGO, CA 92121

PARCEL #: 3586600200

LATITUDE: 32° 49' 15.99"

LONGITUDE: -117° 14' 53.9"

ZONING JURISDICTION: CITY OF SAN DIEGO

ZONING CLASSIFICATION: RS-1-4

COUNTY: SAN DIEGO

GROUND ELEVATION: 482' AMSL

ANTENNA TOP HEIGHT: ±20'-0"

OCCUPANCY GROUP: U

CONSTRUCTION TYPE: V-B

POWER COMPANY: SDG&E

TELEPHONE COMPANY: AT&T

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# GENERAL CONSTRUCTION NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 GENERAL CONTRACTOR – SEE PROJECT TEAM IN TITLE SHEET  
 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 ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. VERIFY WITH SITE OWNER IF A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE PROCEEDING WITH ANY CONSTRUCTION.
- 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 LAWS, 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 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 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 INSTALLATION SPACE FOR APPROVAL BY THE 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 CONFIRM TO ALL OSHA REQUIREMENTS AND AS PER CALIFORNIA BUILDING CODE CHAPTER 33 AS STATED IN THE ENTIRE CHAPTER.
- 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 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 OT 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 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, AND 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 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 MODIFIED PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT MODIFIED 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 FIBER/POWER CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO NOISE, SMOKE, DUST, ODOR, OR VIBRATIONS WILL RESULT FROM THIS FACILITY.
- NO LANDSCAPING IS PROPOSED AT THIS SITE.

## 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:

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

#### 1.2 INSPECTION AND TESTING:

- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- 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:

- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- 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.
- KEEP SITE FREE OF ALL PONDING WATER.
- PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- 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.
- 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.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



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No.	Date	Action

Plans Prepared For:



10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130

Applicant:



Plans Prepared By:



Project:

CARDENO DR AND ALTA LA JOLLA DR  
 SITE ID: SD0777  
 1570 ALTA LA JOLLA DRIVE  
 LA JOLLA, CA 92037  
 FA: 10099930

Drawing Title:

**GENERAL NOTES**

Project No.:  
202107100

Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval

Issue No.:	Drawing No.
0	G-1

SCALE IS BASE ON 22" x 34" "D" SIZE

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G. 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 3 – 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.

- A. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
  - B. 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.
  - C. 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. DIE 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 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED 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.
  - B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D 1557.
  - C. 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. 3.5 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 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED 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 MODIFIED PROCTOR TEST, ASTM D 1557.
  - C. AFTER PREPARATION OF THE SUBGRADE IS COMPLETE THE GEOTEXTILE FABRIC (MIRAFI 500xi) 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 MODIFIED 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 POSITNE 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 ALL 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. CHAPTER 630 – CALIFORNIA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT.
  - B. DESIGN GUIDE AND STANDARDS FOR ROADWAY REHABILITATION PROJECTS (DIB 79-03).

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



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O	03/15/21	ISSUED FOR PERMIT
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A	07/20/20	90% CD SUBMITTAL

Plans Prepared For:



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Drawing Title:  
**GENERAL NOTES**

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Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: G-2

SCALE IS BASE ON 22" x 34" 7D" SIZE

# ELECTRICAL NOTES

## PART 1 - GENERAL

### 1.1 GENERAL CONDITIONS:

- A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE SUBCONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- B. THE SUBCONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

### 1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.

- A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.

### 1.3 REFERENCES:

- A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE PUBLICATIONS.

1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
3. ICE (INSULATED CABLE ENGINEERS ASSOCIATION)
4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
7. UL (UNDERWRITERS LABORATORIES, NC.)
8. AT&T GROUNDING MID BONING STANDARDS TP-76416

### 1.4 SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.
- B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE SUBCONTRACTOR.
- C. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- D. THE SUBCONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.
- E. THE SUBCONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

## PART 2 - PRODUCTS

### 2.1 GENERAL:

- A. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.
- B. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE
- D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH he ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

## 2.2 MATERIALS AND EQUIPMENT:

### A. CONDUIT:

1. RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING
2. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE UL LISTED
3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE. GROUNDING BUSHINGS WITH INSULATED THROATS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.
4. NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.

### B. CONDUCTORS AND CABLE:

1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC SINGLE CONDUCTOR. COPPER. TYPE THIN/THWN-2. 600 VOLT. SIZE AS INDICATED. #12 AWG SHALL BE TIE MINIMUM SIZE CONDUCTOR USED.
2. #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED MID #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
3. SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
4. STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J-BOXES.

5. EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRADY, OR APPROVED EQUAL).

### C. DISCONNECT SWITCHES:

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY. DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE. HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION. RATING AS INDICATED. UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEERED APPROVED EQUAL.

### D. CHEMICAL ELECTROLYTIC GROUNDING SYSTEM:

1. INSTALL CHEMICAL GROUNDING AS REQUIRED. THE SYSTEM SHALL BE ELECTROLYTIC MAINTENANCE FREE ELECTRODE CONSISTING OF RODS WITH A MINIMUM 2 AWG CU EXOTHERMALLY WELDED PIGTAIL, PROTECTIVE BOXES. AND BACKFILL MATERIAL MANUFACTURER SHALL BE LYNCOLE KIT GROUNDING ROD TYPES K2-(\*)CS OR K2L-(\*)CS (\*) LENGTH AS REQUIRED.
2. GROUND ACCESS BOX SHALL BE A POLY PLASTIC BOX FOR NON-TRAFFIC APPLICATIONS, INCLUDING BOLT DOWN FLUSH COVER WITH "BREATHER" HOLES. KIT MODEL #XB-22. ALL DISCONNECT SWITCHES AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES INDICATING EQUIPMENT CONTROLLED. BRANCH CIRCUITS ID NUMBERING, AND THE ELECTRICAL POWER SOURCE.
3. BACKFILL MATERIAL SHALL BE LYNCONITE AND LYNCOLE GROUNDING GRAVEL.

### E. SYSTEM GROUNDING:

1. ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE 2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED.
2. GROUNDING BUSES SHALL BE BARE. TINNED. ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE SUBCONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.
3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.

4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.
6. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS AND EQUIPMENT CABINETS.

### F. OTHER MATERIALS:

1. THE SUBCONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

### G. PANELS AND LOAD CENTERS:

1. ALL PANEL DIRECTORIES SHALL BE TYPED.

## PART 3 - EXECUTION

### 3.1 GENERAL:

- A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

### 3.2 LABOR AND WORKMANSHIP:

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE SUBCONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- C. UPON COMPLETION OF WORK, THE SUBCONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT. REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

### 3.3 COORDINATION:

- A. THE SUBCONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

### 3.4 INSTALLATION:

#### A. CONDUIT:

1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE.
2. PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, RMC OTHERWISE NOTED. EMT MAY BE INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
3. THE INSTALLATION OF SCHEDULE 40 PVC AND RMC CONDUITS SHALL BE 24 INCHES MINIMUM DEPTH. ALL 90 DEGREE BENDS SHALL BE RMC. EXPANSION JOINTS ARE REQUIRED ON ALL CONDUIT RISERS.
4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
5. A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE QUARTER-BENDS. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED.

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## Drawing Title: GENERAL NOTES

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: G-3

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## ELECTRICAL NOTES

6. FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
  7. PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.
  8. SUBCONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. SUBCONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
  9. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
  10. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
  11. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS.
  12. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
  13. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.
- B. CONDUCTORS AND CABLE:**
- 1 ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:
 

DESCRIPTION	208/240/120 VOLT SYSTEMS
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUNDING	GREEN
  4. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDULETS APPROVED FOR THIS PURPOSE.
  5. PULLING LUBRICANTS SHALL BE UL APPROVED. SUBCONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT.
  6. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING AND BE OF SUFFICIENT LENGTH IN ALL BOXES & EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS ARE PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE SUBCONTRACTOR'S EXPENSE.
- C. DISCONNECT SWITCHES:**
1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.
- D. GROUNDING:**
1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS TP-76416, ND-00135, AND THE NATIONAL ELECTRICAL CODE.
  2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
  3. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
  4. BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE SUBCONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP,

- TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE STANDARD 6.3.2.2.
5. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING. SUBCONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING.
  6. GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  7. ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
  8. APPLY CORROSION-RESISTANCE FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOPR-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
  9. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
  10. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
  11. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 36" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.
  12. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
  13. THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
  14. DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.
  15. IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUNDING BAR AT THE BASE OF THE TOWER, A SECOND GROUNDING BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KITS AND IN-LINE ARRESTERS.
  16. SUBCONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE SUBCONTRACTORS EXPENSE.
- 3.5 ACCEPTANCE TESTING:**
- A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.
  - B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON-COMPLIANCE.

**C. TEST PROCEDURES:**

1. ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST LISTED TO SUBCONTRACTOR.
2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.
4. PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

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08/09/2021 9:16AM

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E	02/24/21	100% CD SUBMITTAL
D	12/11/20	100% CD SUBMITTAL
C	10/15/20	100% CD SUBMITTAL
B	18/13/20	90% CD SUBMITTAL
A	07/20/20	90% CD SUBMITTAL
No.	Date	Action

Plans Prepared For:

10590 WEST OCEAN  
AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130

Applicant:

Your world. Delivered.

Plans Prepared By:

MORRISON HERSHFIELD  
5100 W MACADAM AVE. SUITE 500  
PORTLAND, OR 97239  
Tel: 503-595-9128 Fax: 503-595-9136  
www.morrisonhershfield.com

Project:

CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

### GENERAL NOTES

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: <b>0</b>	Drawing No.: <b>G-4</b>

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## GENERAL NOTES

1. DURING CONSTRUCTION, AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EACH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT PER CFC SECTION 3315.1.
2. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 33. WELDING, CUTTING AND OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CFC CHAPTER 35.

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Plans Prepared For:



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SAN DIEGO, CA 92130

Applicant:



Plans Prepared By:



**MORRISON HERSHFIELD**  
5100 W MACADAM AVE. SUITE 500  
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Project:

**CARDENO DR AND ALTA LA JOLLA DR**  
SITE ID: SD0777  
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LA JOLLA, CA 92037  
FA: 10099930

Drawing Title:

**GENERAL NOTES**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.:  0	Drawing No.:  G-5

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SCALE IS BASE ON 22" x 34" "D" SIZE

# STATEMENT OF SPECIAL INSPECTIONS

1. THE OWNER OR REGISTERED DESIGN PROFESSIONAL OF RECORD WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE ITEMS IN THE SPECIAL INSPECTION TABLE BELOW.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
  - 3.1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
  - 3.2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL OF RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
  - 3.3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
4. WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.
5. OBSERVATIONS OR SITE VISITS PERFORMED BY THE ENGINEER OR ARCHITECT DUE NOT CONSTITUTE SPECIAL INSPECTIONS.
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION OF SCHEDULE OF WORK REQUIRING INSPECTION OR TESTING TO THE SPECIAL INSPECTION TO ALLOW COORDINATION.
7. THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTION OR TESTING ARE OUTLINED ON THESE DRAWINGS ALONG WITH THE TYPE AND EXTENT OF EACH INSPECTION AND TEST AND WHETHER IT IS CONTINUOUS OR PERIODIC IN NATURE. IF IT IS NOT INDICATED OTHERWISE, INSPECTION SHALL BE CONTINUOUS.
8. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WINDOR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT SHALL PROVIDE A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT AS REQUIRED BY CBC SECTION 1709
9. NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.
10. NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/OWNER-BUILDER: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.
11. THE SPECIAL INSPECTOR MUST BE REGISTERED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
12. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT.
13. OFFSITE FABRICATOR MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP.
14. OFFSITE FABRICATOR SHALL SUBMIT AN 'APPLICATION TO PERFORM OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION."
15. OFFSITE FABRICATOR SHALL SUBMIT A 'CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.

16. THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.
17. SPECIAL INSPECTIONS, STRUCTURAL TESTS AND STRUCTURAL OBSERVATIONS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE 2019 CBC, CHAPTER 17, SPECIAL INSPECTIONS AND TESTS.
18. PER CALIFORNIA BUILDING CODE, CHAPTER 1704, SPECIAL INSPECTION OF EPOXY ANCHORAGE SHALL BE REQUIRED. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. EPOXY SHALL BE INSTALLED AND SET WITH ANCHOR IN HOLE. SPECIAL INSPECTOR SHALL BE PRESENT TO VERIFY THE HOLE IS CLEAN AND EPOXY INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

## SPECIAL INSPECTION PROGRAM

SPECIAL INSPECTION TYPE	CODE OR STANDARD	FREQUENCY		COMMENT
		CONT.	PERIODIC	
POST-INSTALLED CONCRETE ANCHORS	ICC EVALUATION REPORT	X		ALL ANCHORS VISUALLY INSPECTED

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Plans Prepared For:

10590 WEST OCEAN  
AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130

Applicant:

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Plans Prepared By:

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Project:

CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

## Drawing Title: SPECIAL INSPECTION NOTES

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: G-6

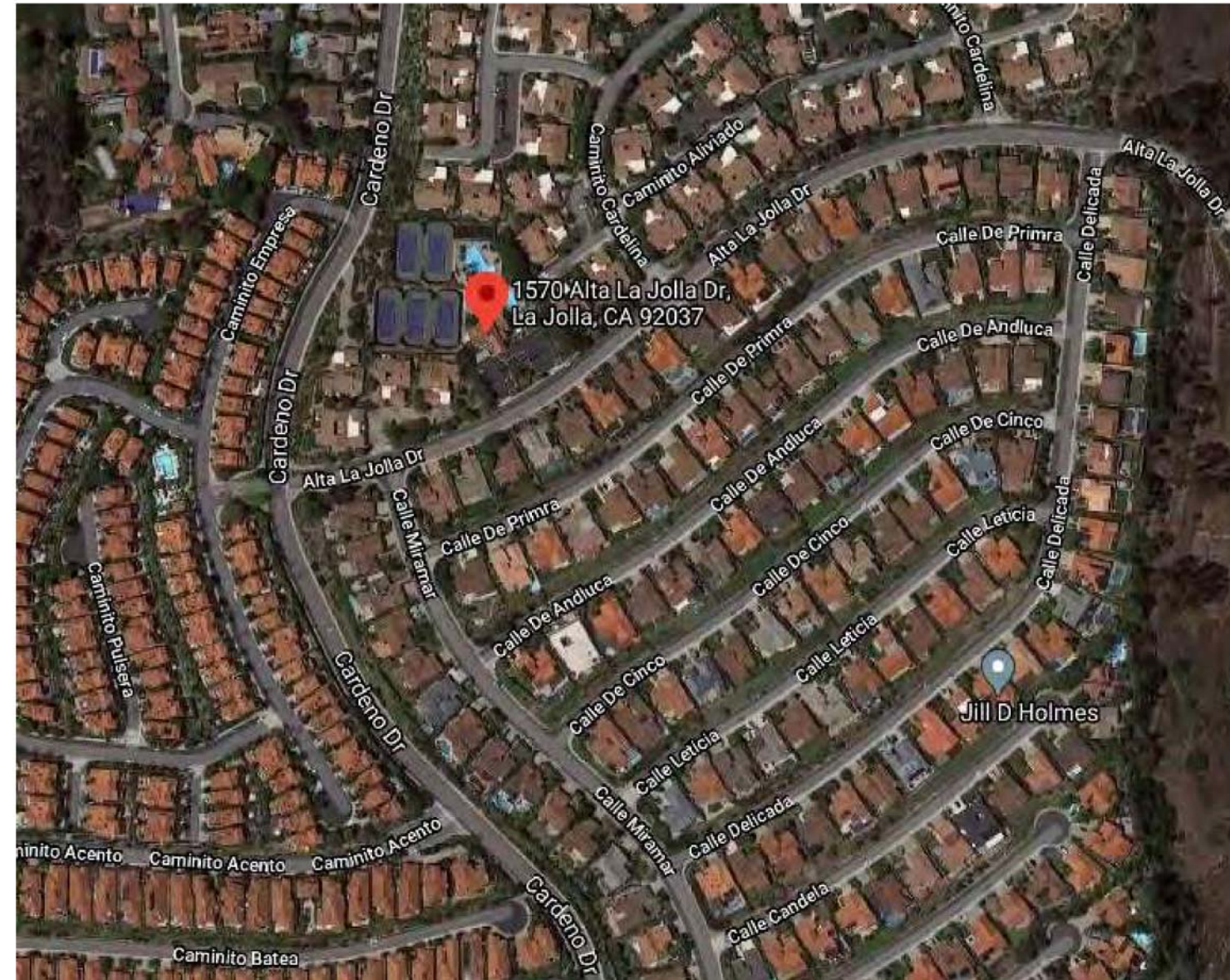
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# SD0777 - 10099930 - Alta La Jolla



1570 Alta La Jolla Drive, La Jolla, CA 92037

Map



LOCATION

©2018 Google Maps



# SD0777 - 10099930 - Alta La Jolla

MD7

1570 Alta La Jolla Drive, La Jolla, CA 92037

VIEW 1



EXISTING



No Exterior Change

PROPOSED

# SD0777 - 10099930 - Alta La Jolla



1570 Alta La Jolla Drive, La Jolla, CA 92037

VIEW 2



EXISTING



No Exterior Change  
PROPOSED

# SD0777 - 10099930 - Alta La Jolla



1570 Alta La Jolla Drive, La Jolla, CA 92037

VIEW 3



EXISTING



No Exterior Change

PROPOSED

**THIS IS NOT A SURVEY**

ALL INFORMATION AND TRUE NORTH HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND ARE APPROXIMATE.

**MD7**

November 20, 2020

To: MD7, LLC  
David Bruinix, Land Use  
10590 W Ocean Air Drive, Suite 300  
San Diego, CA 92130  
(858) 964-7459  
dbruinix@md7.com

From: La Jolla Alta Master Council  
1570 Alta La Jolla Drive  
La Jolla, CA 92037

Re: Property Owner Letter of Authorization  
Site ID: 10099930  
Site Address: 1570 Alta La Jolla Drive, La Jolla, CA, 92037

Dear Sir or Madam:

This is to certify that I, La Jolla Alta Master Council, am the legal property owner of record, and hereby authorize MD7, LLC, as agent for AT&T Mobility, to file the documents necessary to obtain the permit approvals for AT&T Mobility to make modifications to its existing cell site located at 1570 Alta La Jolla Drive, La Jolla, CA 92037.

By: *[Signature]*  
Property Owner Signature  
*President, LAMC*  
Name and Title  
*12-7-2020*  
Date  
*619.972.5447*  
Phone Number / Email Address

10590 WEST OCEAN AIR DRIVE / SUITE 300 / SAN DIEGO, CA 92130

CARDENO DR

PARCEL NUMBER:  
3584902619

NOTES:  
1. THIS PROJECT PROPOSES NO WORK WITHIN THE PUBLIC RIGHT-OF-WAY.  
2. NO GROUND DISTURBANCE OR TRENCHING IS PROPOSED BY THIS PROJECT.

EXISTING TENNIS COURT

EXISTING SWIMMING POOL (BELOW)

EXISTING PROPERTY LINE

PARCEL NUMBER:  
3586600200

PARCEL NUMBER:  
3586600107

EXISTING TREE (TYP)

EXISTING BUILDING

PARCEL NUMBER:  
3586600300

1  
A-2

EXISTING ADJACENT PROPERTY LINE (TYP)

PARCEL NUMBER:  
3586600407

EXISTING PARKING AREA

EXISTING LANDSCAPING

ALTA LA JOLLA DR

EXISTING SIDEWALK



PLAN NORTH

30' 0 15' 30'

SCALE: 1"=30'-0" (22x34)  
(OR) 1/2"=30'-0" (11x17)

1

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Plans Prepared For:

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CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

Drawing Title:  
**SITE PLAN**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 1	Drawing No.: A-1



Know what's below.  
Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA (SOUTH), CALL DIG ALERT TOLL FREE: 1-800-227-2600 OR WWW.DIGALERT.ORG CALIFORNIA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

SITE PLAN

SCALE IS BASE ON 22" x 34" 7D" SIZE

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E	02/24/21	100% CD SUBMITTAL
D	12/11/20	100% CD SUBMITTAL
C	10/15/20	100% CD SUBMITTAL
B	18/13/20	90% CD SUBMITTAL
A	07/20/20	90% CD SUBMITTAL

Plans Prepared For:

10590 WEST OCEAN  
AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130

Applicant:

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Plans Prepared By:

**MORRISON HERSHFIELD**  
5100 W MACADAM AVE. SUITE 500  
PORTLAND, OR 97239  
Tel: 503-595-9128 Fax: 503-595-9136  
www.morrisonhershfield.com

Project:

**CARDENO DR AND ALTA LA JOLLA DR**  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

Drawing Title:

**ROOF PLAN**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-2



**NOTE:**  
SEE A-4.1 FOR ANTENNA PLAN

**ROOF PLAN**

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17)



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SCALE IS BASE ON 22" x 34" D" SIZE

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Plans Prepared For:

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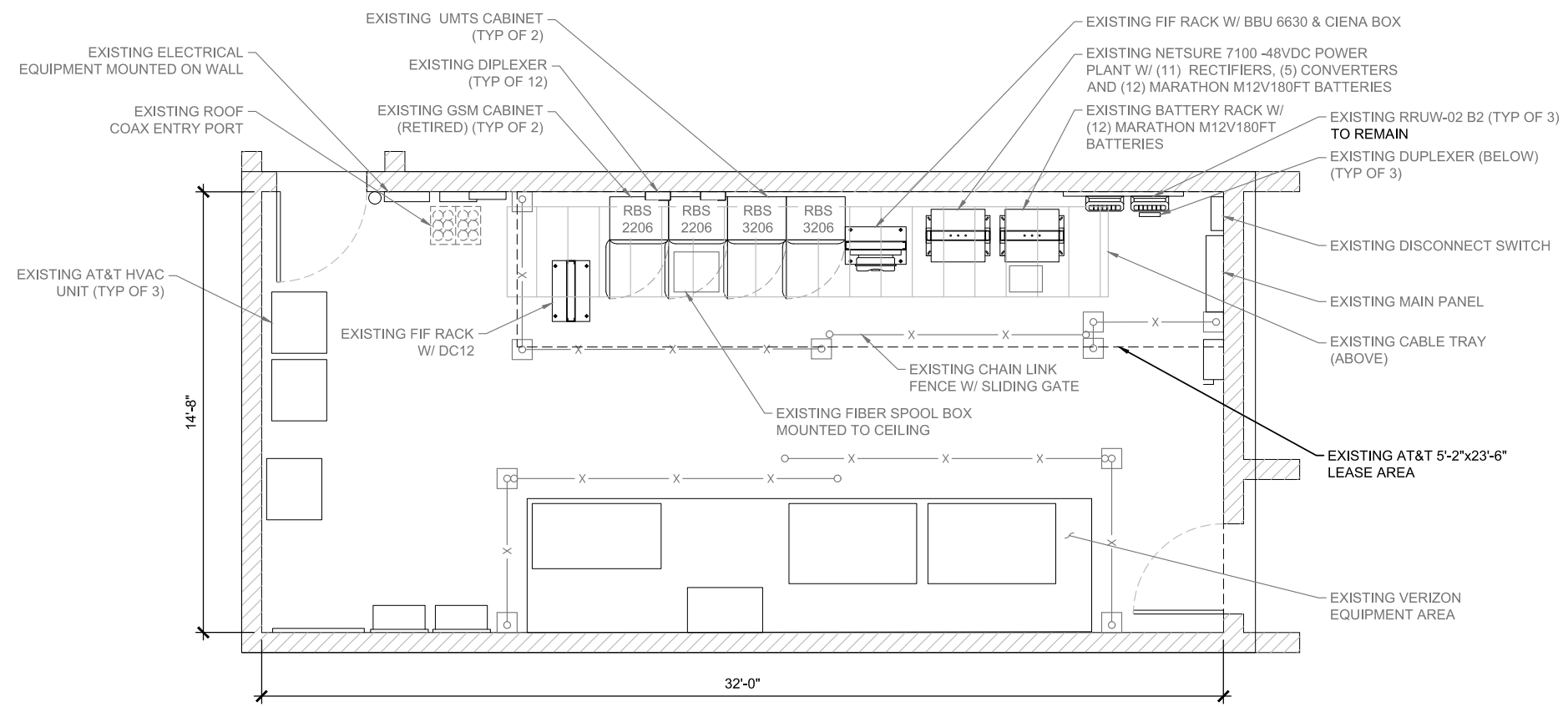
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FA: 10099930

Drawing Title:

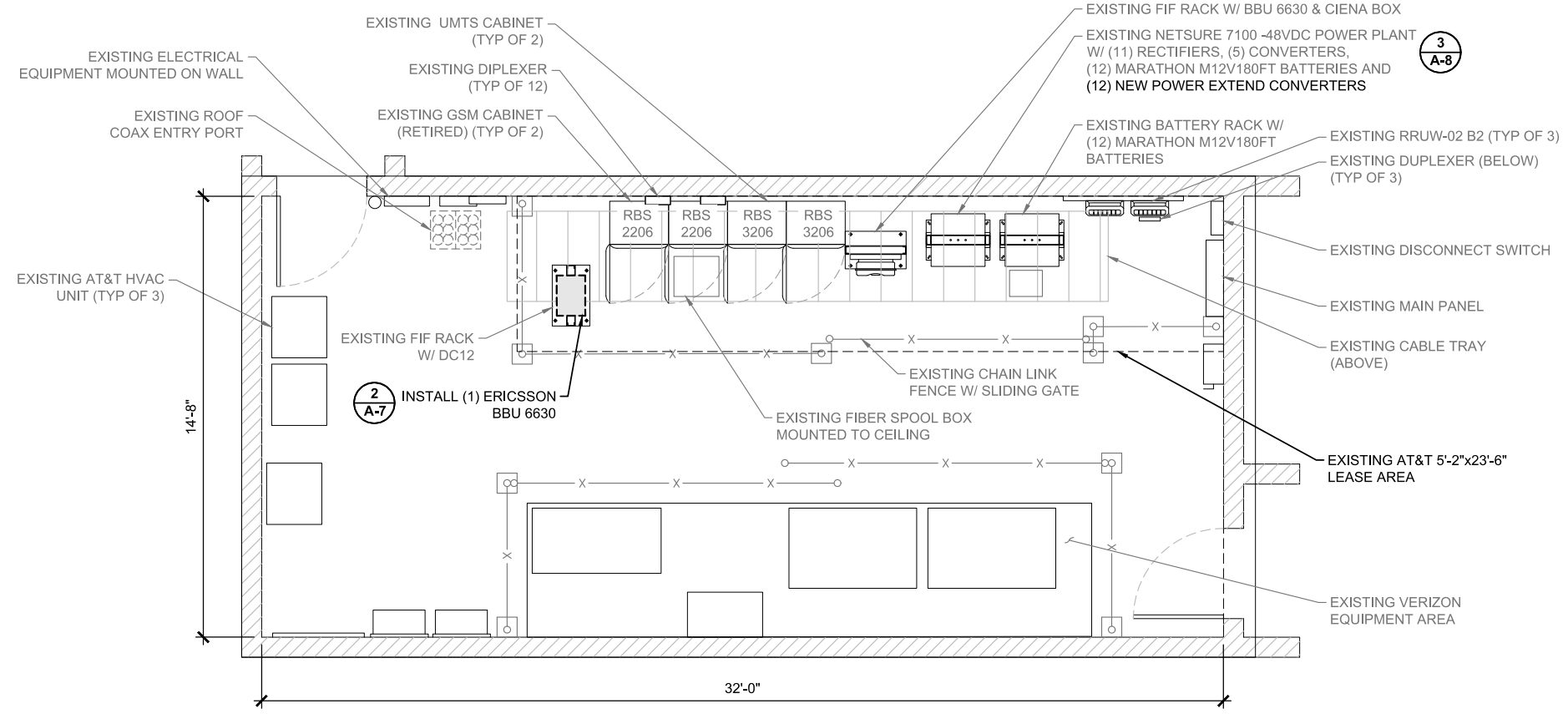
**EQUIPMENT PLANS**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-3



EXISTING EQUIPMENT PLAN

0 1' 2' 3' SCALE: 3/8"=1'-0" (22x34)  
(OR) 3/16"=1'-0" (11x17) 1



PROPOSED EQUIPMENT PLAN

0 1' 2' 3' SCALE: 3/8"=1'-0" (22x34)  
(OR) 3/16"=1'-0" (11x17) 2

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Plans Prepared For:  
  
 10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130

Applicant:  
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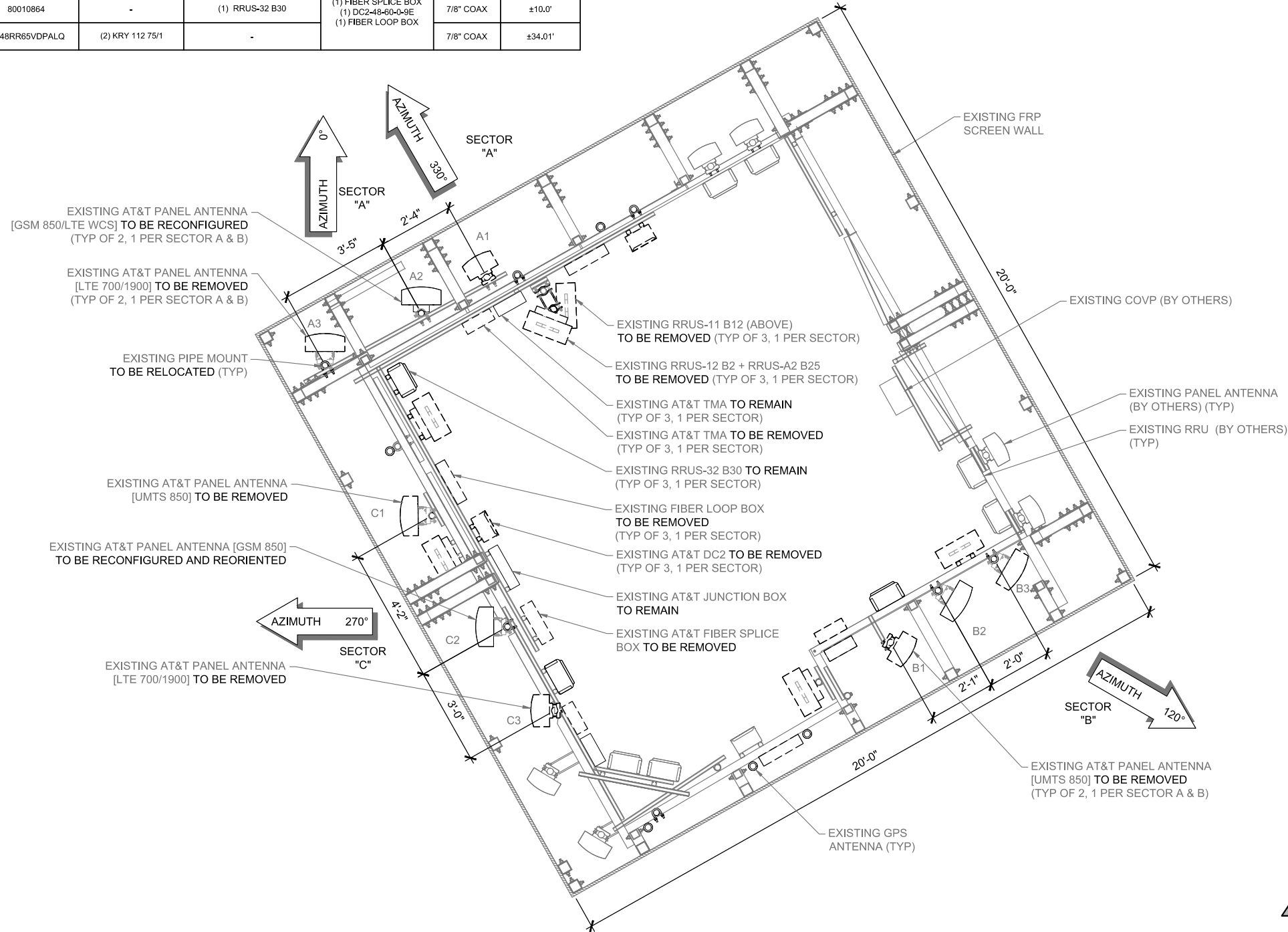
Project:  
 CARDENO DR AND ALTA LA JOLLA DR  
 SITE ID: SD0777  
 1570 ALTA LA JOLLA DRIVE  
 LA JOLLA, CA 92037  
 FA: 10099930

Drawing Title:  
**EXISTING ANTENNA PLAN AND SCHEDULE**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-4

NOTE: REFER TO MOUNT MAPPING REPORT PERFORMED BY MORRISON HERSHFIELD ON 06/26/2020.

EXISTING ANTENNA CONFIGURATION AND SCHEDULE - PER RFDS VERSION 2.0 - DATED 11-18-2020										
SECTOR	CARRIER/SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	FEEDER JUMPER	FEEDER LENGTH
SECTOR A	UMTS 850	A1	330°	17'-6"	MB48RR65VDPALQ	(2) KRY 112 75/1	-	(1) DC2-48-60-0-9E (1) FIBER LOOP BOX	7/8" COAX	±34.01'
	LTE WCS	A2	0°	17'-6"	80010864	-	(1) RRUS-32 B30		7/8" COAX	±10.0'
	LTE 700 LTE 1900	A3	0°	16'-6"	80010864	-	(1) RRUS-11 B12 (1) RRUS-12 B2+RRUS-A2 B25		7/8" COAX	±10.0'
SECTOR B	UMTS 850	B1	120°	18'-0"	MB48RR65VDPALQ	(2) KRY 112 75/1	-	(1) DC2-48-60-0-9E (1) FIBER LOOP BOX	7/8" COAX	±34.01'
	LTE WCS	B2	120°	17'-6"	80010864	-	(1) RRUS-32 B30		7/8" COAX	±10.0'
	LTE 700 LTE 1900	B3	120°	17'-6"	80010864	-	(1) RRUS-11 B12 (1) RRUS-12 B2+RRUS-A2 B25		7/8" COAX	±10.0'
SECTOR C	LTE 700 LTE 1900	C1	270°	17'-6"	80010864	-	(1) RRUS-11 B12 (1) RRUS-12 B2+RRUS-A2 B25	(1) JUNCTION BOX (1) FIBER SPLICE BOX (1) DC2-48-60-0-9E (1) FIBER LOOP BOX	7/8" COAX	±10.0'
	LTE WCS	C2	270°	17'-6"	80010864	-	(1) RRUS-32 B30		7/8" COAX	±10.0'
	UMTS 850	C3	270°	17'-6"	MB48RR65VDPALQ	(2) KRY 112 75/1	-		7/8" COAX	±34.01'



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**EXISTING ANTENNA PLAN**

SCALE: 1/2"=1'-0" (22x34)  
 (OR) 1/4"=1'-0" (11x17)



PROPOSED ANTENNA CONFIGURATION AND SCHEDULE - PER RFDS VERSION 2.0 - DATED 11-18-2020

SECTOR	CARRIER/SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	FEEDER JUMPER	FEEDER LENGTH
SECTOR A	5G 850	A1	0°	18'-0"	DMP65R-BU4E	-	(1) 4449 B5/B12 (1) 8843 B2/B66A	(1) DC9-48-60-24-PC16-EV	1/2" COAX	≤25.0'
	LTE 700/1900/AWS	A1	0°	18'-0"	DMP65R-BU4E	-	(1) 4449 B5/B12 (1) 8843 B2/B66A		7/8" COAX	±34.01'
	UMTS 850	A2	0°	17'-6"	80010864	(1) KRY 112 75/1	(1) RRUS-32 B30		1/2" COAX	≤25.0'
SECTOR B	LTE WCS	A2	0°	17'-6"	80010864	(1) KRY 112 75/1	(1) RRUS-32 B30	(1) DC9-48-60-24-PC16-EV	7/8" COAX	±34.01'
	LTE 700	A3	0°	17'-6"	DMP65R-BU4E	-	(1) 4478 B14		1/2" COAX	≤25.0'
	LTE WCS	A2	120°	17'-6"	80010864	(1) KRY 112 75/1	(1) RRUS-32 B30		7/8" COAX	±34.01'
SECTOR C	LTE 700	B3	120°	17'-6"	DMP65R-BU4E	-	(1) 4478 B14	(1) JUNCTION BOX (1) DC9-48-60-24-PC16-EV	1/2" COAX	≤25.0'
	5G 850	C1	260°	17'-6"	DMP65R-BU4E	-	(1) 4449 B5/B12 (1) 8843 B2/B66A		1/2" COAX	≤25.0'
	LTE 700/1900/AWS	C1	260°	17'-6"	DMP65R-BU4E	-	(1) 4449 B5/B12 (1) 8843 B2/B66A		7/8" COAX	±34.01'
SECTOR C	UMTS 850	C2	260°	17'-6"	80010864	(1) KRY 112 75/1	(1) RRUS-32 B30	(1) JUNCTION BOX (1) DC9-48-60-24-PC16-EV	7/8" COAX	±34.01'
	LTE WCS	C2	260°	17'-6"	80010864	(1) KRY 112 75/1	(1) RRUS-32 B30		1/2" COAX	≤25.0'
	LTE 700	C3	260°	17'-6"	DMP65R-BU4E	-	(1) 4478 B14		1/2" COAX	≤25.0'

NOTE: REFER TO MOUNT ANALYSIS REPORT PERFORMED BY MORRISON HERSHFIELD ON 10/14/2020

NOTE: NOTE THE MECHANICAL TILTS FOR EACH ANTENNA SINCE THEY HAVE BEEN UPDATED IN THE RFDS PLEASE SET THE MECHANICAL TILTS PER RFDS

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



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B	18/13/20	90% CD SUBMITTAL
A	07/20/20	90% CD SUBMITTAL

Plans Prepared For:  
  
 10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130

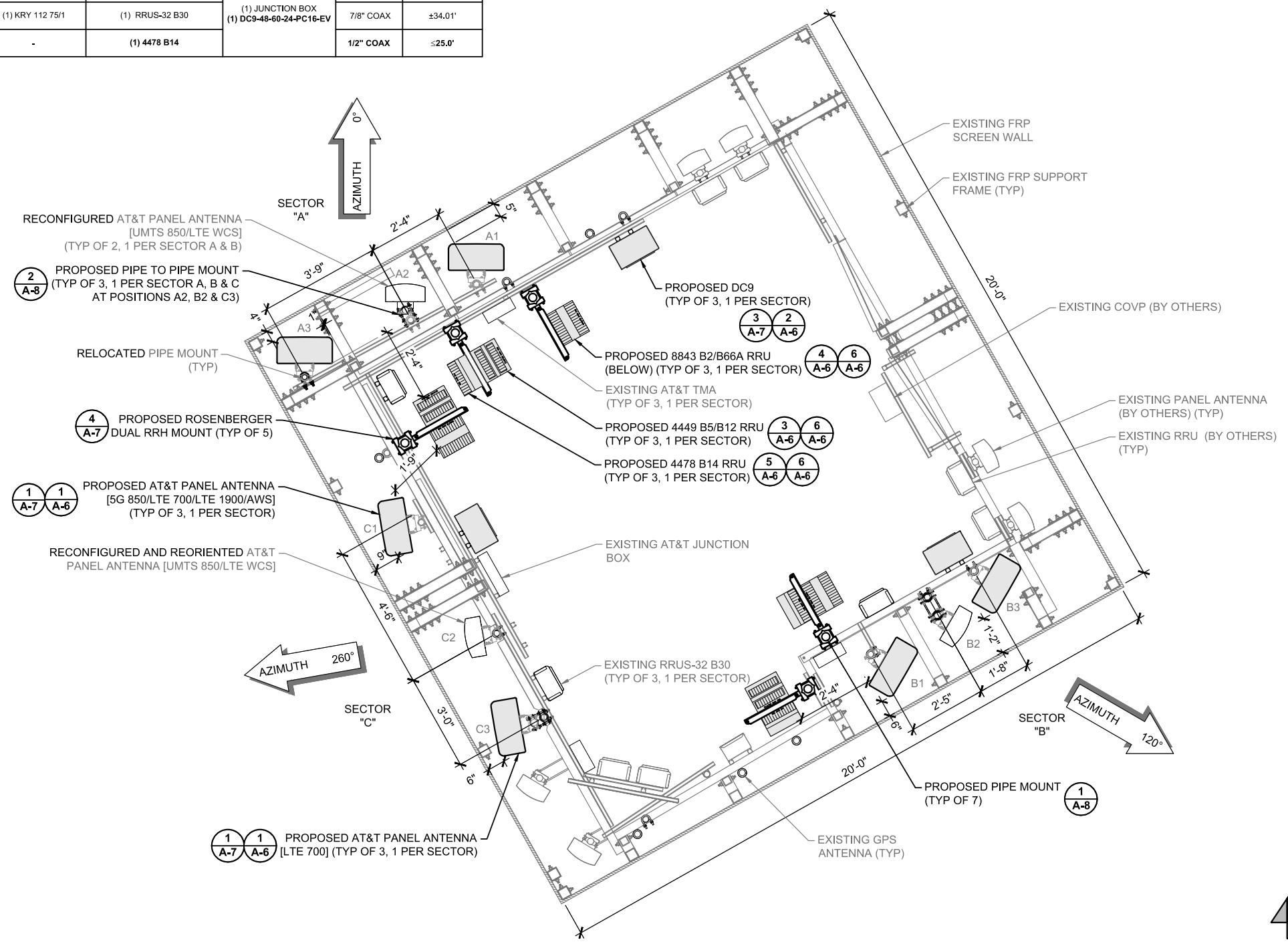
Applicant:  
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Plans Prepared By:  
  
 MORRISON HERSHFIELD  
 5100 W MACADAM AVE. SUITE 500 PORTLAND, OR 97239  
 Tel: 503-595-9128 Fax: 503-595-9136 www.morrisonhershfield.com

Project:  
 CARDENO DR AND ALTA LA JOLLA DR  
 SITE ID: SD0777  
 1570 ALTA LA JOLLA DRIVE LA JOLLA, CA 92037  
 FA: 10099930

Drawing Title:  
**PROPOSED ANTENNA PLAN AND SCHEDULE**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-4.1



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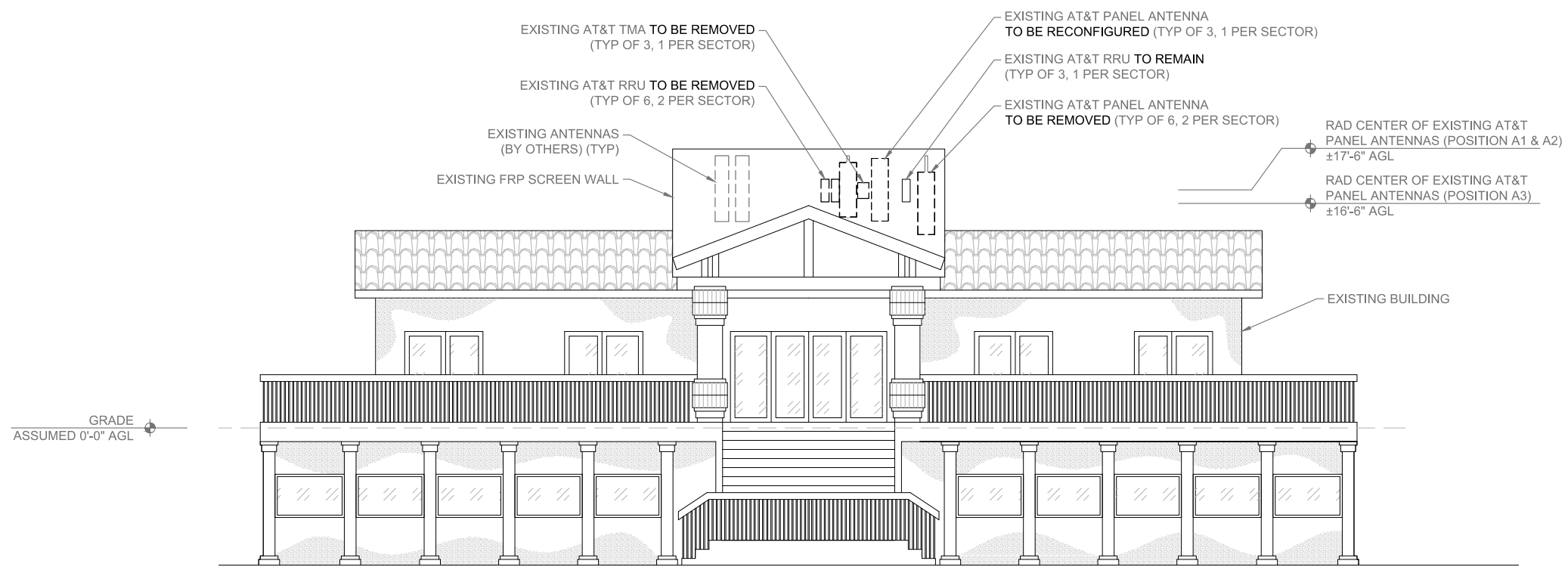
PROPOSED ANTENNA PLAN

0 6" 1' 2' SCALE: 1/2"=1'-0" (22x34) (OR) 1/4"=1'-0" (11x17)





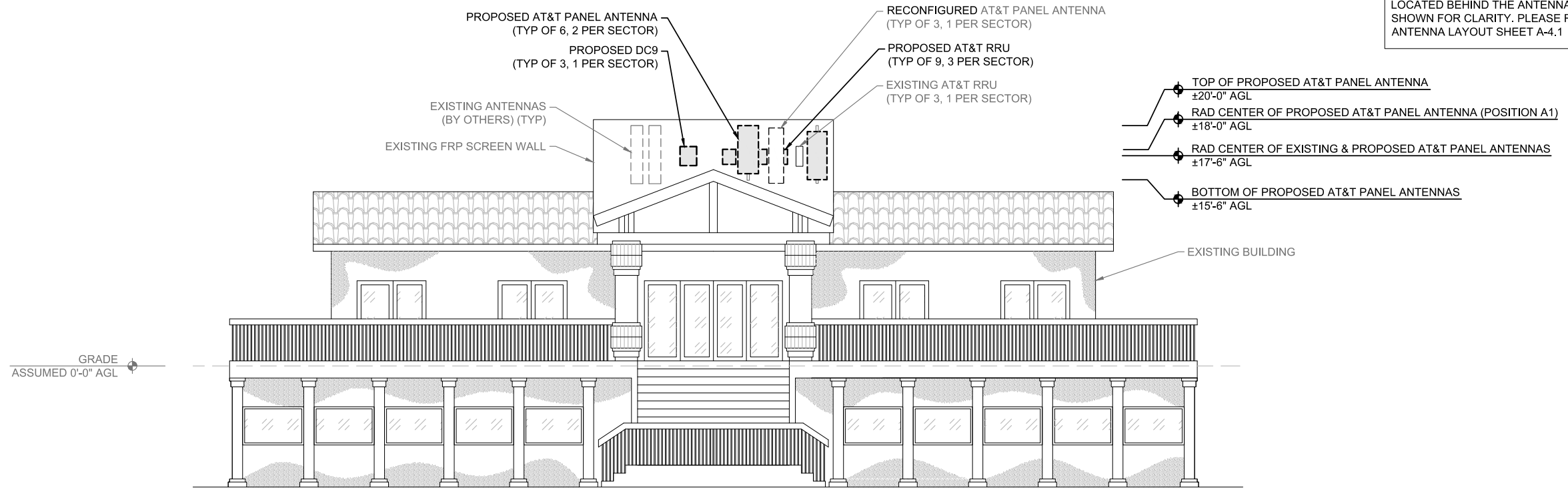
NOTE: RRUS AND OTHER EQUIPMENT LOCATED BEHIND THE ANTENNAS, NOT SHOWN FOR CLARITY. PLEASE REFER ANTENNA LAYOUT SHEET A-4



EXISTING NORTHWEST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 1

NOTE: RRUS AND OTHER EQUIPMENT LOCATED BEHIND THE ANTENNAS, NOT SHOWN FOR CLARITY. PLEASE REFER ANTENNA LAYOUT SHEET A-4.1



PROPOSED NORTHWEST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 2

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SAN DIEGO, CA 92130

Applicant:

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LA JOLLA, CA 92037  
FA: 10099930

Drawing Title:

**NORTHWEST ELEVATIONS**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-5

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SCALE IS BASE ON 22" x 34" D SIZE

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Plans Prepared For:

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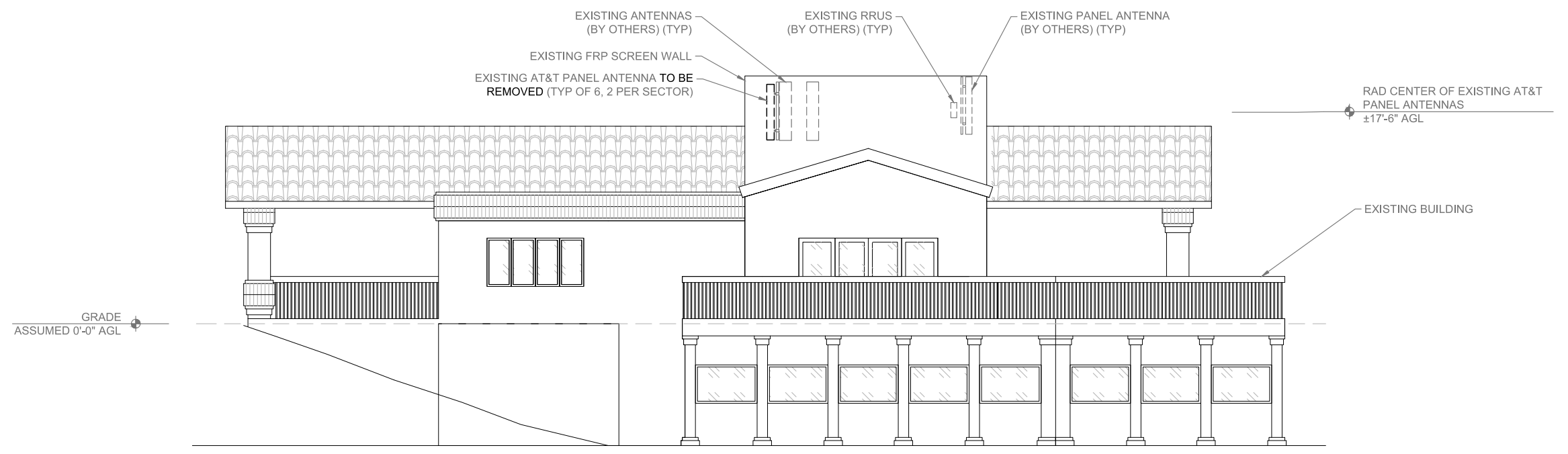
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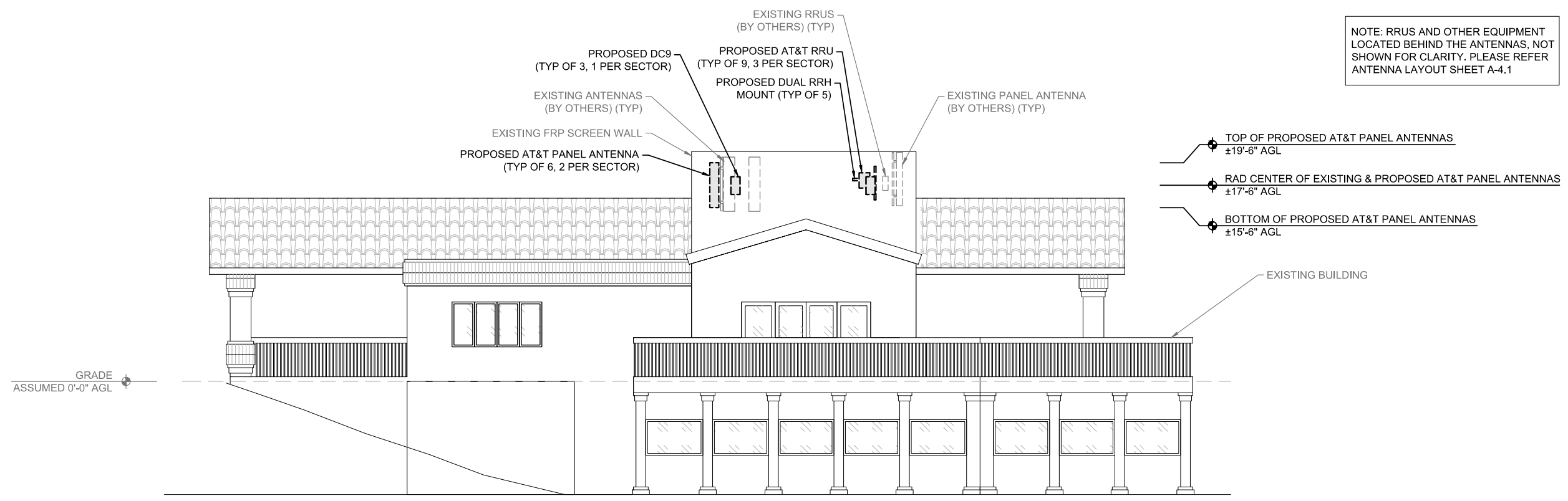
**NORTHEAST ELEVATIONS**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-5.1



EXISTING NORTHEAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 1



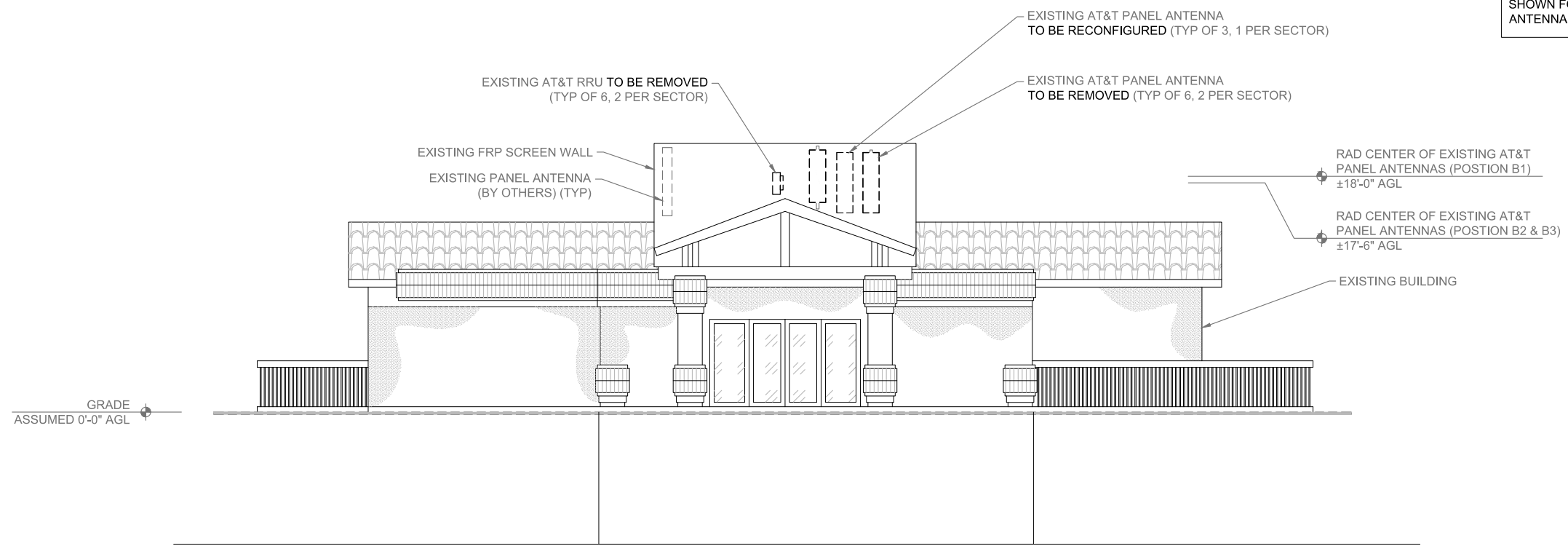
NOTE: RRUS AND OTHER EQUIPMENT LOCATED BEHIND THE ANTENNAS, NOT SHOWN FOR CLARITY. PLEASE REFER ANTENNA LAYOUT SHEET A-4.1

PROPOSED NORTHEAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 2

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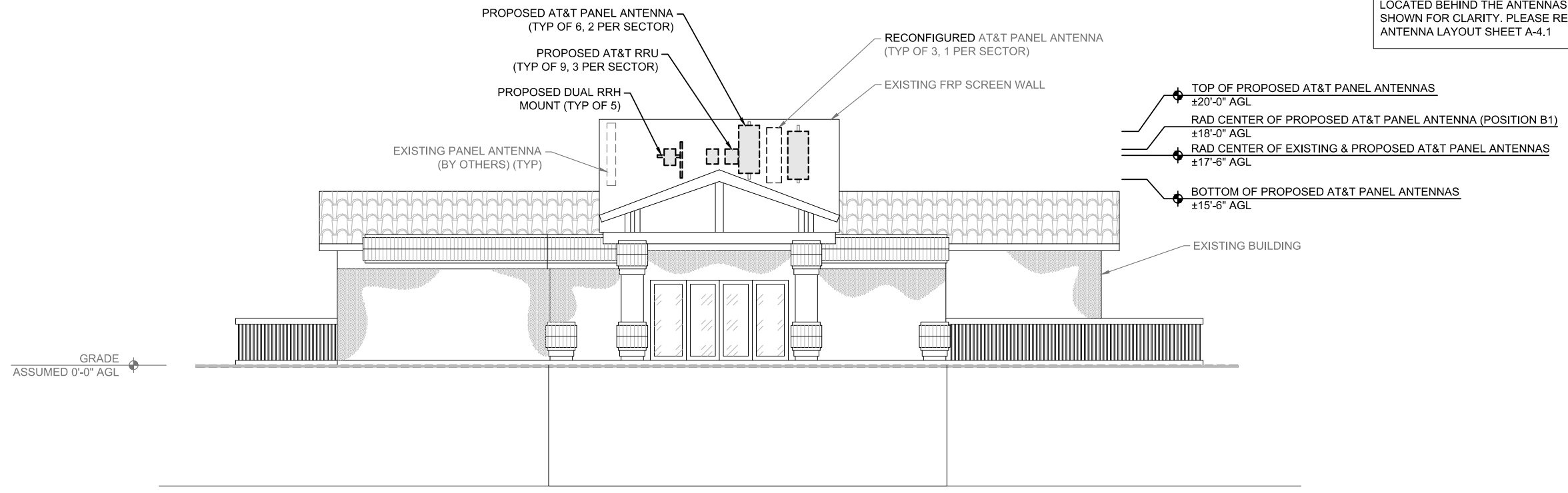
NOTE: RRUS AND OTHER EQUIPMENT LOCATED BEHIND THE ANTENNAS, NOT SHOWN FOR CLARITY. PLEASE REFER ANTENNA LAYOUT SHEET A-4



EXISTING SOUTHEAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 1

NOTE: RRUS AND OTHER EQUIPMENT LOCATED BEHIND THE ANTENNAS, NOT SHOWN FOR CLARITY. PLEASE REFER ANTENNA LAYOUT SHEET A-4.1



PROPOSED SOUTHEAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 2

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Plans Prepared For:

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SAN DIEGO, CA 92130

Applicant:

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Project:  
CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

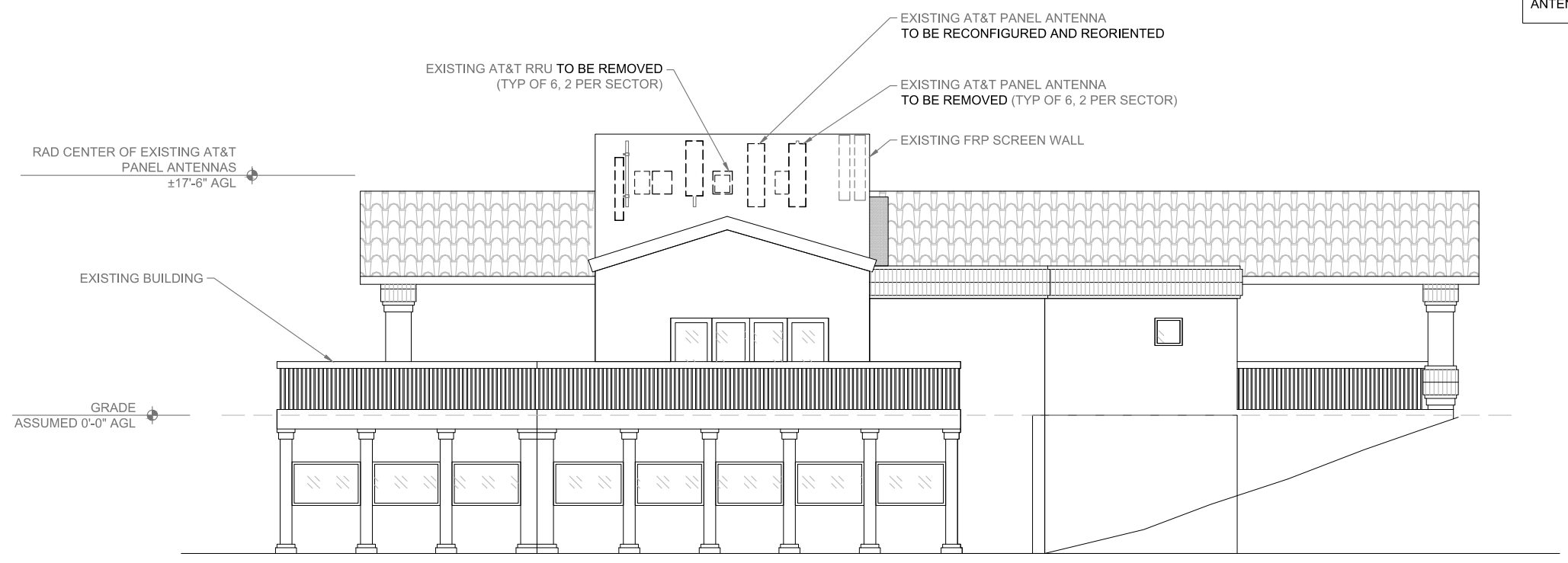
Drawing Title:  
**SOUTHEAST ELEVATIONS**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-5.2

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SCALE IS BASE ON 22" x 34" 7D" SIZE

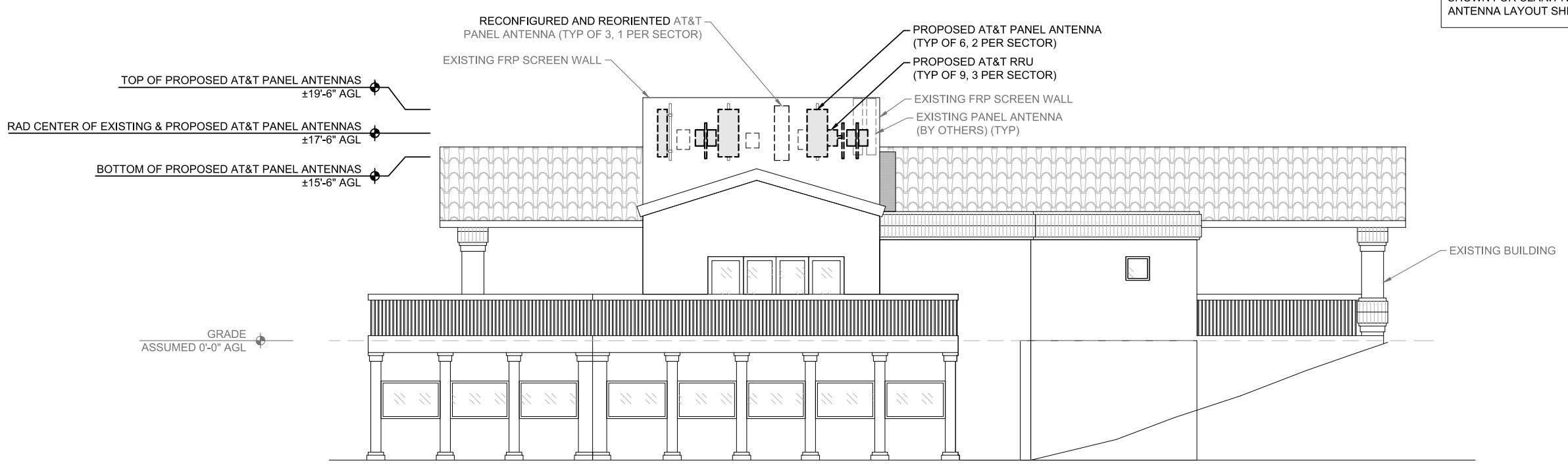
NOTE: RRUS AND OTHER EQUIPMENT LOCATED BEHIND THE ANTENNAS, NOT SHOWN FOR CLARITY. PLEASE REFER ANTENNA LAYOUT SHEET A-4



EXISTING SOUTHWEST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 1

NOTE: RRUS AND OTHER EQUIPMENT LOCATED BEHIND THE ANTENNAS, NOT SHOWN FOR CLARITY. PLEASE REFER ANTENNA LAYOUT SHEET A-4.1



PROPOSED SOUTHWEST ELEVATION

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17) 2

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



08/09/2021 9:16AM

No.	Date	Action
1	08/09/21	REVIEW COMMENTS
O	03/15/21	ISSUED FOR PERMIT
E	02/24/21	100% CD SUBMITTAL
D	12/11/20	100% CD SUBMITTAL
C	10/15/20	100% CD SUBMITTAL
B	18/13/20	90% CD SUBMITTAL
A	07/20/20	90% CD SUBMITTAL

Plans Prepared For:

10590 WEST OCEAN  
AIR DRIVE, SUITE 300  
SAN DIEGO, CA 92130

Applicant:

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Plans Prepared By:

MORRISON HERSHFIELD  
5100 W MACADAM AVE. SUITE 500  
PORTLAND, OR 97239  
Tel: 503-595-9128 Fax: 503-595-9136  
www.morrisonhershfield.com

Project:  
CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

Drawing Title:  
**SOUTHWEST ELEVATIONS**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval

Issue No.: 0	Drawing No.: A-5.3
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Plans Prepared For:

10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130

Applicant:

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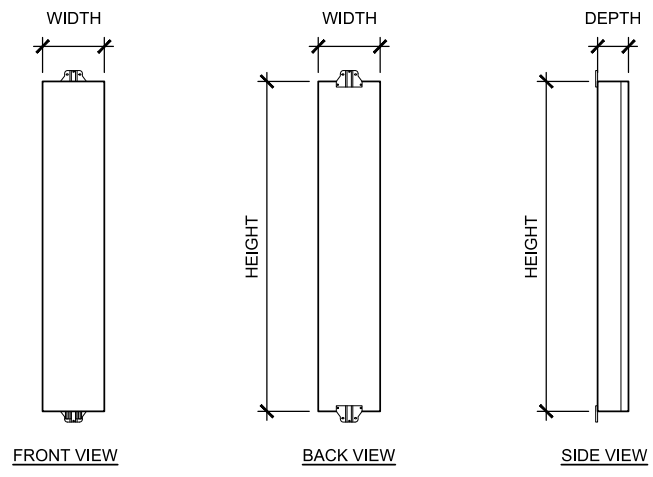
Project:

CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

Drawing Title:

## DETAILS

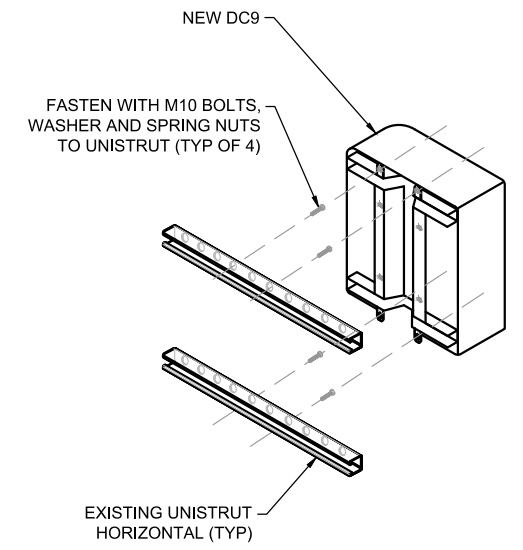
Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-6



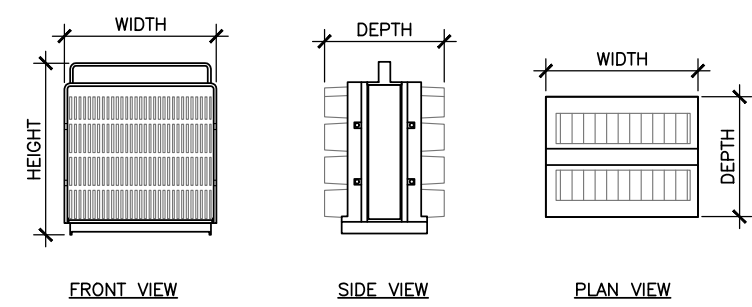
### CCI - DMP65R-BU4E

SIZE AND WEIGHT TABLE

HEIGHT	WIDTH	DEPTH	WEIGHT
48.0"	20.7"	9.7"	75.6 LBS



### DC9 MOUNTING DETAIL



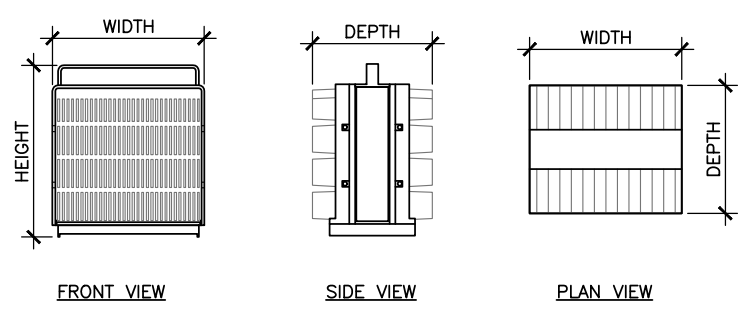
### ERICSSON 4449 (B5/B12)

SIZE AND WEIGHT TABLE

WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
13.19"	10.43"	14.96"	73.00 LBS

NOTE:  
DIMENSIONS DO NOT INCLUDE MOUNTING BRACKET AND SOLAR SHIELD.

### RRU SPECIFICATIONS

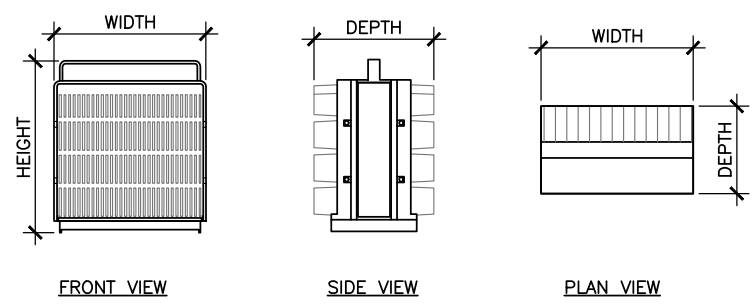


### ERICSSON 8843 (B2/B66A)

SIZE AND WEIGHT TABLE

WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
13.19"	11.10"	14.96"	75.00 LBS

NOTE:  
DIMENSIONS DO NOT INCLUDE MOUNTING BRACKET AND SOLAR SHIELD.



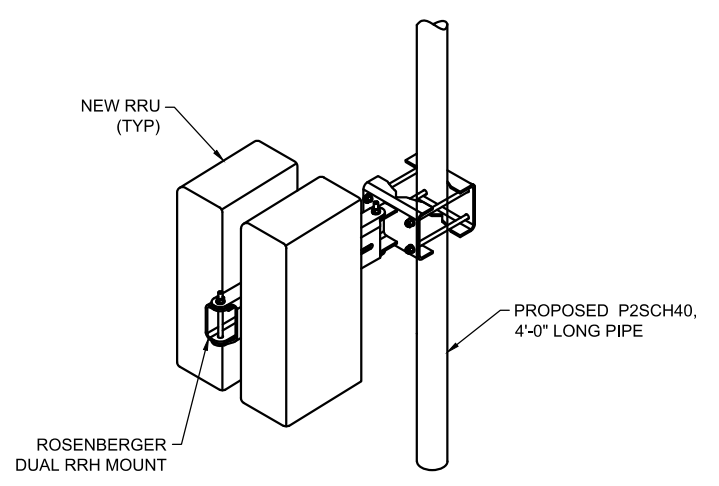
### ERICSSON 4478 (B14)

SIZE AND WEIGHT TABLE

WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
13.40"	7.70"	16.50"	59.90 LBS

NOTE:  
DIMENSIONS DO NOT INCLUDE MOUNTING BRACKET AND SOLAR SHIELD.

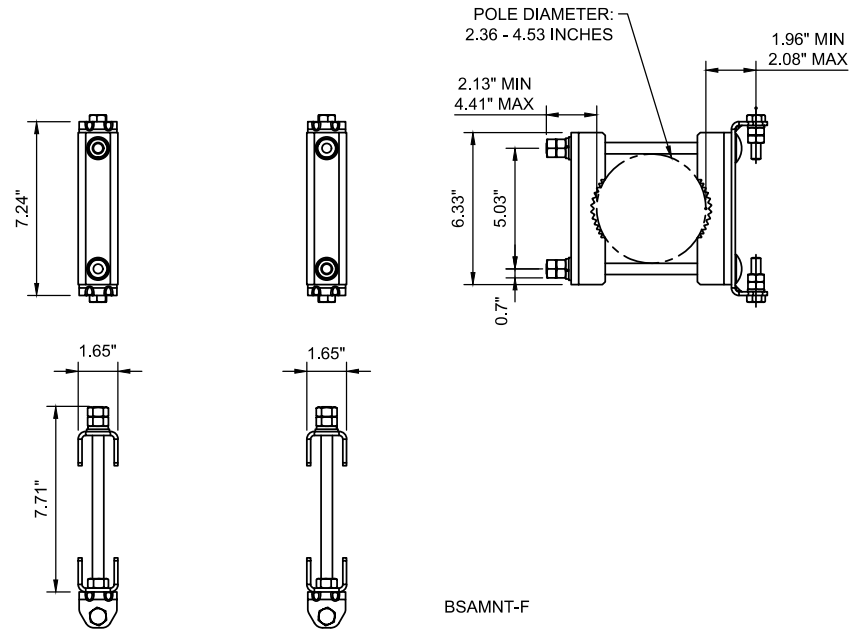
### RRU SPECIFICATIONS



### RRU MOUNTING DETAIL

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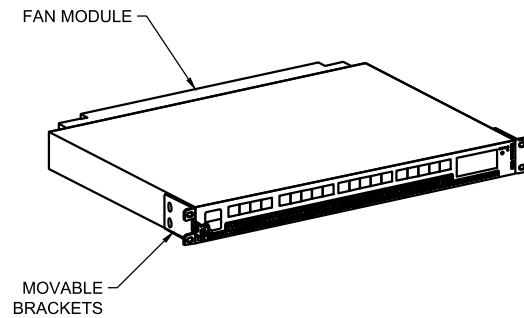
**CCI - DMP65R-BU4E MOUNTING KIT:**



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	ECR 8000026173: RELEASE TO PRODUCTION.	14SEP17 LS	S.LIU/JIHE
B	ECR 8000026769: CHG 100936-21 TO 100936-33.	27OCT17 HWW	S.LIU/JIHE

**ERICSSON BASEBAND 6630:**

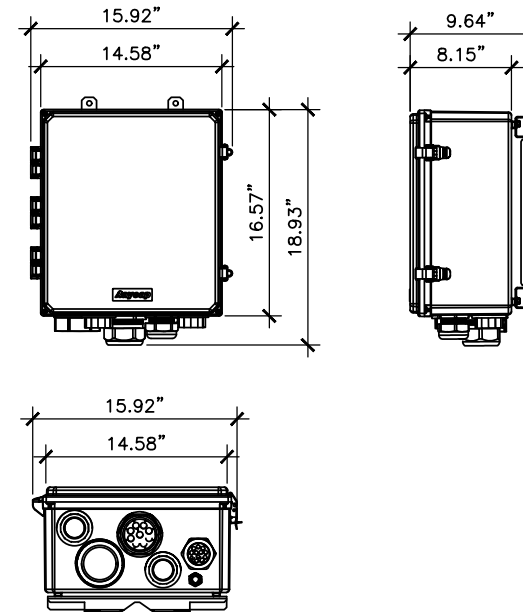
DIMENSIONS, WxDxH: 19"x13.8"x1.75"  
 NOMINAL OPERATING VOLTAGE: -48 VDC  
 OPERATING VOLTAGE RANGE: -38 TO -58.5 VDC  
 OPERATING TEMPERATURE: 0 TO +55°C  
 TOTAL WEIGHT: 6.5 kg | 14.3 lbs  
 BREAKER SIZE: 30A



NOTE:  
 CONSTRUCTION TO REFER TO AT&T UPGRADE KIT  
 GUIDELINES WHEN INSTALLING THE RBS 6630 IN THE RACK

**RAYCAP DC9-48-60-24-PC16-EV:**

DIMENSIONS, LxWxH: 16.34"x16.57"x8.19"  
 NOMINAL OPERATING VOLTAGE: 48 VDC  
 OPERATING DISCHARGE CURRENT: 60 kA 8/20ms  
 MAX DISCHARGE CURRENT: 160 kA 8/20ms  
 VOLTAGE PROTECTION LEVEL  
 [Up] PER IEC 61643-11: 145 V  
 VOLTAGE PROTECTION RANKING (VPR): 330V  
 TOTAL WEIGHT: 34.9 kg | 15.83 lbs



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Plans Prepared For:

10590 WEST OCEAN  
 AIR DRIVE, SUITE 300  
 SAN DIEGO, CA 92130

**ANTENNA MOUNTING KIT**

SCALE  
N.T.S.

**1 BASEBAND 6630 SPECS**

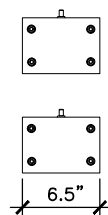
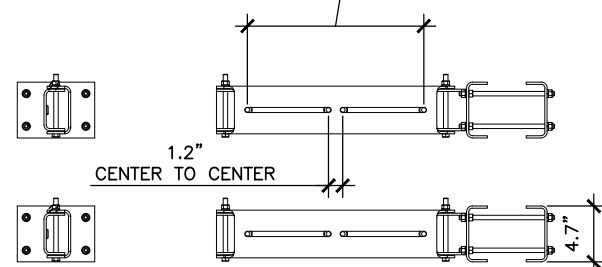
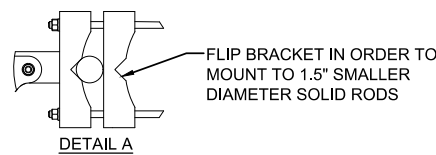
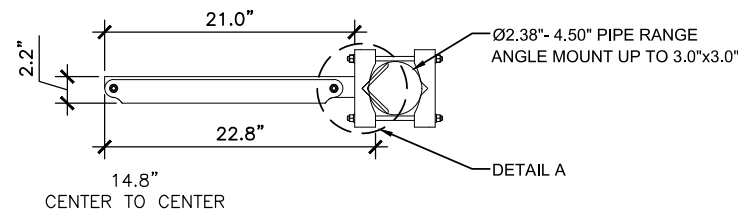
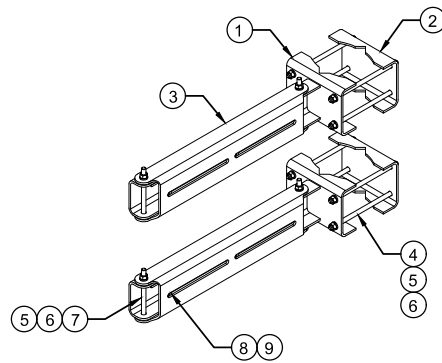
SCALE  
N.T.S.

**2 DC9 SPECIFICATIONS**

SCALE  
N.T.S.

RSS PART # D218RRUDSM

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	RRUDSM.01	MOUNTING ARM	2	8.92 LBS
2	RRUDSM.02	CLAMP PLATE	2	2.33 LBS
3	RRUDSM.03	SWIVEL MOUNT	2	6.60 LBS
4	GD03800	3/8"-16 UNCx8" GALV. THREADED BOLT	8	0.25 LBS
5	GWL-03	3/8" GALV LOCK WASHER	20	0.01 LBS
6	GN-03	3/8"-16 UNC GALV HEX NUT	28	0.02 LBS
7	GB-03505	3/8"x5" GALV BOLT	4	0.18 LBS
8	SWF03	3/8" SS FLAT WASHER	8	0.01 LBS
9	SWL-03	3/8" SS LOCK WASHER	8	0.01 LBS



**ROSENBERGER DUAL RRH MOUNT DETAIL**

SCALE  
N.T.S.

**4 NOT USED**

SCALE  
N.T.S.

**5**

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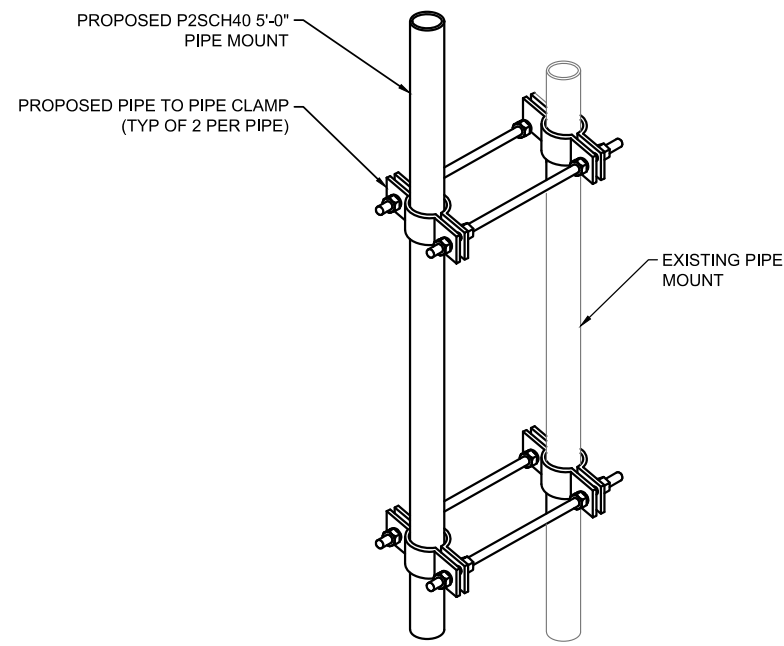
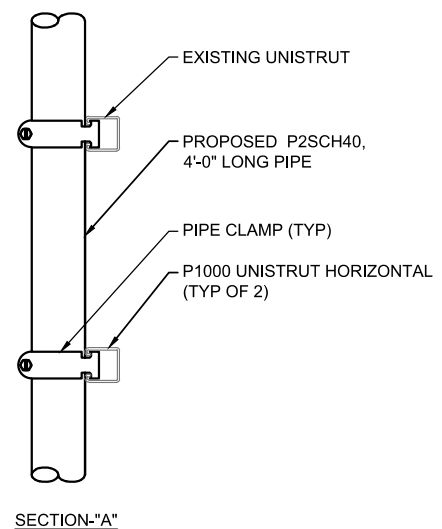
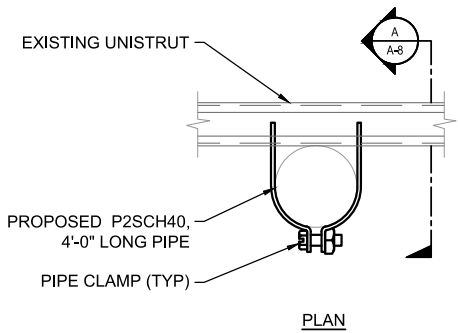
Project:

CARDENO DR AND ALTA LA JOLLA DR  
 SITE ID: SD0777  
 1570 ALTA LA JOLLA DRIVE  
 LA JOLLA, CA 92037  
 FA: 10099930

Drawing Title:  
**DETAILS**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-7

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### VERTIV eSure™ C48/58-1000 POWER EXTEND CONVERTER:

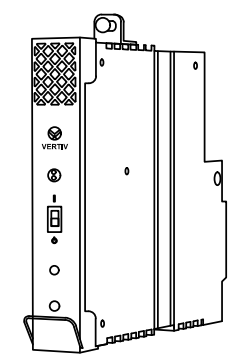
**SPECIFICATIONS:**

**DIMENSIONS, LxWxH:** 4.32"x0.73"x4.22"  
**WEIGHT:** 0.45 kg | 1.0 lbs

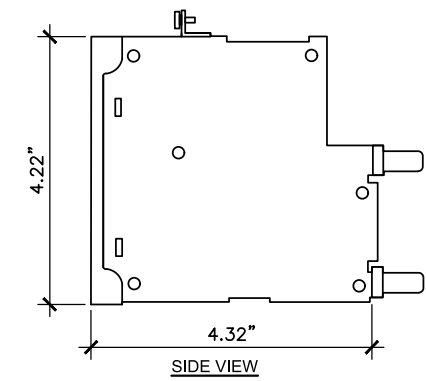
**DC INPUT VOLTAGE RANGE:** -42 VDC to -58 VDC  
**MAXIMUM CURRENT:** 24.35 A

**DC OUTPUT VOLTAGE:** -58 VDC  
**MAXIMUM POWER:** 1000 W  
**MAXIMUM CURRENT:** 17.2 A @ -58 VDC  
**PEAK EFFICIENCY:** 98.6%

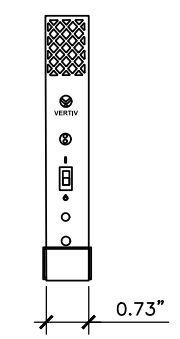
**OPERATING:** -40°C TO +65°C / -40°F TO +149°F  
**STORAGE:** -40°C TO +70°C / -40°F TO +158°F  
**RELATIVE HUMIDITY:** 0 TO 93% NON-CONDENSING  
**ALTITUDE:** -200 TO 10,000 FEET



ISOMETRIC VIEW



SIDE VIEW



FRONT VIEW

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Plans Prepared For:

10590 WEST OCEAN  
 AIR DRIVE, SUITE 300  
 SAN DIEGO, CA 92130

UNISTRUT ATTACHMENT TO PIPE

SCALE  
N.T.S.

PIPE TO PIPE MOUNT DETAIL

SCALE  
N.T.S.

POWER EXTEND CONVERTER DETAIL

SCALE  
N.T.S.

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 FA: 10099930

Drawing Title:

DETAILS

Project No.: 202107100	
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Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-8

NOT USED

NOT USED

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**MATERIAL SAFETY DATA SHEET**

I. PRODUCT IDENTIFICATION					
<b>MANUFACTURER</b> Exide Technologies Industrial Energy 3950 Sussex Avenue Aurora, IL 60504-7932		<b>CHEMICAL/TRADE NAME</b> (as used on label) MARATHON V-0 and SPRINTER V-0 Valve Regulated Lead Acid Battery			
<b>FOR INFORMATION</b> Primary: MACTEC Engineering and Consulting, Inc. Attention: Juliann Cothran (770) 421-3485 Secondary: Environmental, Safety & Health Attention: Eric Murray (800) 532-4622 or Fred Ganster (610) 921-4052		<b>CHEMICAL FAMILY/ CLASSIFICATION</b> Electrical Storage Battery Monoblock type		<b>DATE ISSUED:</b> January 2010	
<b>FOR EMERGENCY</b> CHEMTREC (800) 424-9300 24-hour Emergency Response Contact Ask for Environmental Coordinator		CHEMTREC INTERNATIONAL (703) 527-3887 – Collect			
II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION					
			Approximate Air Exposure Limits ( $\mu\text{g}/\text{m}^3$ )		
Components	CAS Number	% by Wt.	OSHA	ACGIH	NIOSH
Inorganic components of:					
Lead	7439-92-1	71-76	50	50	50
Antimony Oxide	7440-36-0	< 0.6	500	500	500
Calcinated Clay	N/A	< 1.2	N/A	N/A	N/A
Tin	7440-31-5	0.4-0.6	2000	2000	2000
Copper	7440-50-8	< 0.1	1000	1000	1000
Electrolyte (sulfuric acid)	7664-93-9	16-18	1000	200	1000
Case Material:					
Polypropylene	9003-07-0	6-7	N/A	N/A	N/A
Plate separator material:					
Glass	N/A	2-3	N/A	N/A	N/A
NOTE: Inorganic lead and electrolyte (water and sulfuric acid solution) are the primary components of every battery manufactured by Exide Technologies or its subsidiaries. Other ingredients may be present dependent upon battery type. Polypropylene is the principal case material of automotive and commercial batteries.					
III. PHYSICAL DATA					
Boiling Point (Electrolyte)	203° F (at 760 mm Hg)	Specific Gravity ( $\text{H}_2\text{O}=1$ )	1.230 to 1.350		
Melting Point	Not Applicable	Vapor Pressure (mm Hg at 20 °C)	10		
Solubility in Water	100%	Vapor Density (AIR=1)	Greater than 1		
Evaporation Rate (Butyl acetate=1)	Less Than 1	% Volatiles by Weight	Not Applicable		
Appearance and Odor	A clear liquid with a sharp, penetrating, pungent odor. A battery is a manufactured article; no apparent odor.				

Project Battery System Data	
Battery Type:	Valve Regulated Lead Acid (VRLA) with Absorbant Glass Mat (AGM)
Battery Manufacturer/Model:	Exide GNB / M12V180FT
Total Weight of (1) Battery/Cell (kg):	60
Electrolyte per Battery (18% of Battery Weight) (kg):	10.8
Electrolyte per Battery in Gallons (1 Gallon = 6.91 kg):	1.6
Total Batteries in Battery & Power Rack:	24
Total Amount of -48V Strings:	6
Total Amount of Electrolyte in Gallons:	38.4
Total Amount of Amp Hours (Ah):	1080
Total Amount of Kilo-Watt Hours (kWh):	51.84

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FA: 10099930

Drawing Title:  
**DETAILS**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: A-9

**BATTERY SPECIFICATIONS**

SCALE  
N.T.S. 1

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Site Name: Cardno Dr and Alta La Jolla Dr  
Site FA: 10099930

Site USID: 50627  
19

**Appendix C: AT&T SIGNAGE AND MITIGATION**

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. As presented in the AT&T guidance document, the signs must:

- Be posted at a conspicuous point;
- Be posted at the appropriate locations;
- Be readily visible; and
- Make the reader aware of the potential risks prior to entering the affected area.

The table below presents the signs that may be used for AT&T installations.

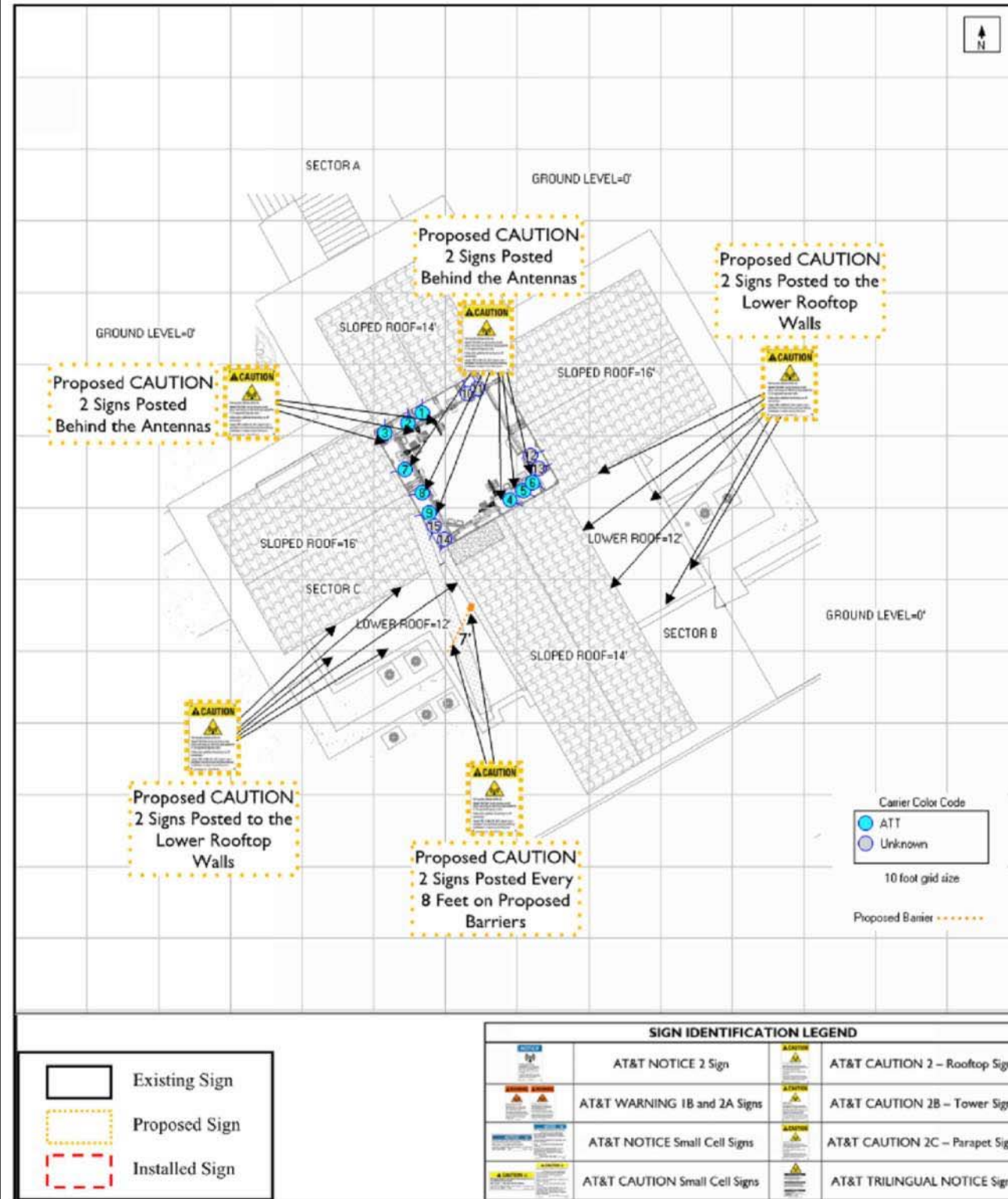
CRAN / HETNET Small Cell Decals / Signs		Alerting Signs	
	<b>STONEHOUSE NOTICE DECAL</b>		
	<b>STONEHOUSE NOTICE SIGN</b>		
	<b>STONEHOUSE CAUTION DECAL</b>		
	<b>STONEHOUSE CAUTION SIGN</b>		

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Site Name: Cardno Dr and Alta La Jolla Dr  
Site FA: 10099930

Site USID: 50627  
3

**2.0 SIGNAGE AND MITIGATION PLAN**



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A	07/20/20	90% CD SUBMITTAL

Plans Prepared For:

10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130

Applicant:

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Plans Prepared By:

MORRISON HERSHFIELD  
5100 W MACADAM AVE. SUITE 500  
PORTLAND, OR 97239  
Tel: 503-595-9128 Fax: 503-595-9136  
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Project:

CARDENO DR AND ALTA LA JOLLA DR  
SITE ID: SD0777  
1570 ALTA LA JOLLA DRIVE  
LA JOLLA, CA 92037  
FA: 10099930

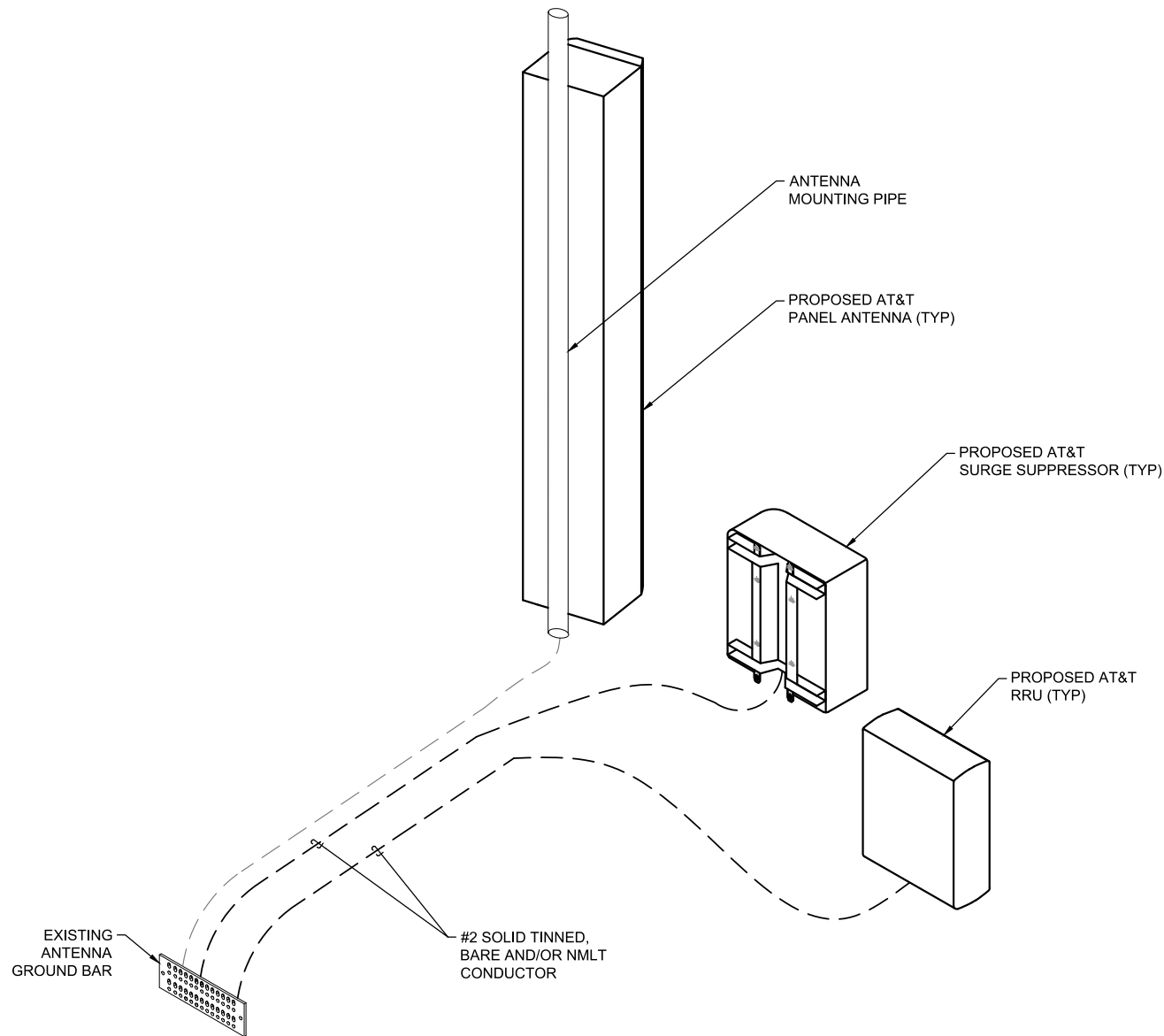
Drawing Title:

**RF SIGN LOCATION PLAN**

Project No.: 202107100	Date: 07/08/20
Designer: SB	Checked By: SS
Drawn By: RM	Client Approval
PM Review: JR	
Issue No.: 0	Drawing No.: RF-1

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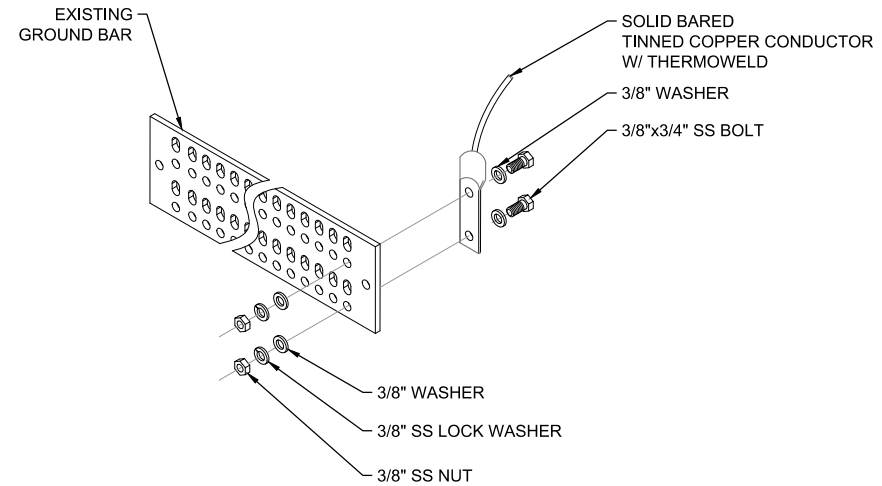
- NOTES:**
- CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP-76416. ALL EXOTHERMIC CADWELDS SHALL BE PERFORMED BY CERTIFIED TECHNICIAN.
  - PROVIDE WEATHER PROOFING AND GROUNDING KIT TO BOND DC POWER CABLE SHIELD TO EXTERNAL HATCH PLATE GROUND BAR.
  - PROVIDE GROUND CONNECTION FOR DC POWER CABLE SHIELD TO "P" SECTION OF CRGB WITHIN SHELTER.
  - CONTRACTOR SHALL USE THEFT RESISTANT GROUND WIRES AND BARS WHEN FEASIBLE.
  - CONTRACTOR SHALL MAINTAIN A 12" MINIMUM GROUND WIRE BEND RADII.
  - GROUND LUGS, HEATSHRINK AND CLAMPS DEVICES SHALL COMPLY WITH AT&T GROUNDING AND BONDING PRACTICE TP-76416.

ANTENNA GROUNDING SCHEMATIC (TYP)

SCALE  
N.T.S. 1

GROUNDING NOTES

SCALE  
N.T.S. 3



- NOTES:**
- UTILIZE EXISTING AT&T GROUND BARS AND GROUNDING.
  - ADD GROUND BARS IF THERE ARE INSUFFICIENT LUG POSITIONS.
  - REFERENCE AT&T BONDING & GROUNDING PRACTICE TP76416.

TYPICAL GROUND BAR CONNECTION DETAIL

SCALE  
N.T.S. 2

- RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
- GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS, ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP-76416.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



No.	Date	Action
1	08/09/21	REVIEW COMMENTS
O	03/15/21	ISSUED FOR PERMIT
E	02/24/21	100% CD SUBMITTAL
D	12/11/20	100% CD SUBMITTAL
C	10/15/20	100% CD SUBMITTAL
B	18/13/20	90% CD SUBMITTAL
A	07/20/20	90% CD SUBMITTAL

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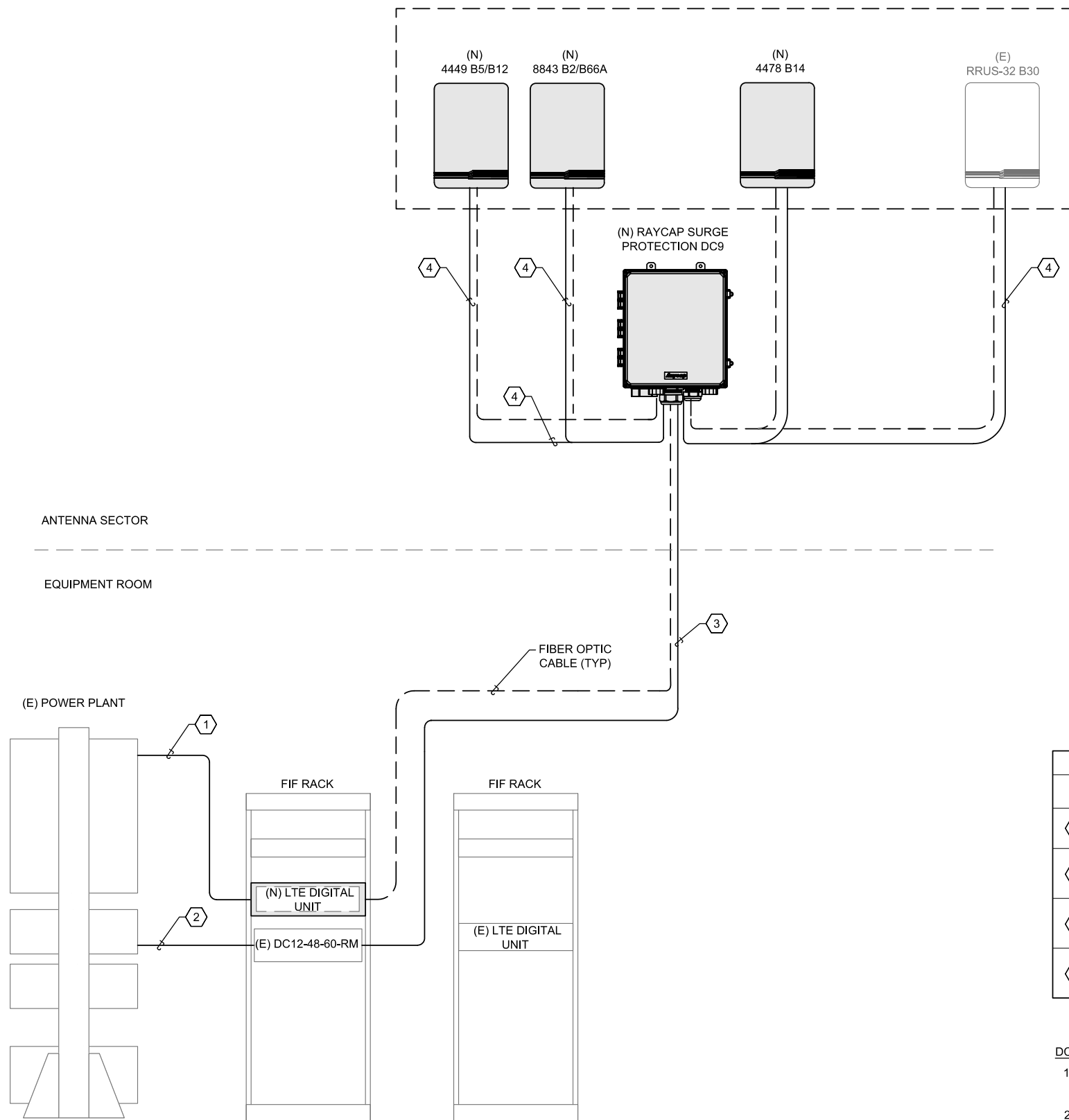
Drawing Title:

## GROUNDING DETAILS

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: E-1

SCALE IS BASE ON 22" x 34" "D" SIZE

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DC CIRCUIT SCHEDULE				
	BREAKER	FROM	TO	CONFIGURATION
①	15A / 1P	-48DC DISTRIBUTION PANEL	LTE BASE BAND UNIT	(1) 2-#10 THHN/THWN/VW-1 TYPE TC-ER DC CABLE
②	SEE RRU SPECIFICATION FOR BREAKER SIZE	-48DC DISTRIBUTION PANEL	RAYCAP SURGE PROTECTION DC12-48-60-RM	(2) 6-#6 THHN/THWN/VW-1 TYPE TC-ER DC CABLE
③	N/A	RAYCAP SURGE PROTECTION DC12-48-60-0-RM	RAYCAP SURGE PROTECTION DC9	(2) 6-#6 THHN/THWN/VW-1 TYPE TC-ER DC CABLE
④	N/A	RAYCAP SURGE PROTECTION DC9	REMOTE RADIO UNIT	(1) 2-#10 THHN/THWN/VW-1 TYPE TC-ER DC CABLE

- DC WIRING GENERAL NOTES:**
- DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V (RED) AND -48V (BLUE) MARKINGS ON CONDUCTORS.
  - LTE TECHNOLOGY DC POWER WIRING SHALL BE IN ACCORDANCE WITH ATT-002-290-531
  - NON-LTE TECHNOLOGY DC POWER WIRING SIZE 14 AWG TO 10 AWG SHALL BE TELCOFLEX III. DC POWER WIRING 8 AWG AND LARGER SHALL BE TELCOFLEX IV.

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 FA: 10099930

Drawing Title:  
**ONE-LINE DIAGRAM**

Project No.: 202107100	
Designer: SB	Date: 07/08/20
Drawn By: RM	Checked By: SS
PM Review: JR	Client Approval
Issue No.: 0	Drawing No.: E-2

**ELECTRICAL DC ONE LINE DIAGRAM**

SCALE  
 N.T.S. 1

SCALE IS BASE ON 22" x 34" 7D" SIZE