

SD Real Estate Assets
City Consent Application

For installation / modification of Telecommunication antenna facility on City owned property

16-Jul-20

Date

The City of San Diego
Real Estate Assets Department
1200 Third Avenue, Suite 1700
San Diego, California 92101

RE: Site Name: Pechanga Arena Project # _____
Site Address: 3500 Sports Arena Boulevard, San Diego (the "Property")
Agreement: Agreement dated May 15, 1995 (the "agreement") between The City of San Diego ("City") and Verizon Wireless (VAW) LLC, ("Lessee" or "Permittee").

Verizon Wireless is seeking Consent from the City to perform the following to the above
Applicant's Name/Carrier
referenced site:

- ☒ Modify, upgrade or changes to existing equipment or Site as describe in the attached plans / photos.
- ☐ Installation of a New Wireless Communication Facility on City owned property.
- ☐ Apply for new Permit/New Agreement on existing facility - **NO** modifications or changes to Existing equipment or site.

Describe proposed project below:

Verizon to replace three (3) existing panel antennas with three (3) new panel antennas. Antennas to remain behind existing screens.

Verizon proposing to renew Agreement for three (3) years with two (2) - one year options.

Pursuant to Improvements and Alterations, section of the above referenced agreement, "Lessee / Permittee shall not construct any improvements, structures or installations of the Premises or make any alterations to the Premises (with the exception of equipment replacement or repairs) without City's prior written approval."

In order to comply with such requirements, Verizon Wireless would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Rodney Philhower, agent for Verizon Wireless.

Applicant Signature: _____

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to City Treasures, MUST be paid at the time of application. This fee applies even if the agreement is never executed.

AEG MANAGEMENT SD LLC has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein, **with the understanding that the Department will be allowed to review the improvement plans prior to any permits being issued** and that a pre-construction meeting will be conducted with staff before any work begins, if required.

7/17/2020
Date

JANET KELLEY, FINANCE DIRECTOR
Print Name & Title

janet kelley
Signature

City of San Diego, acknowledgement and consent for _____

7/17/20
Date

Cybele L. Thompson, Director, READ
Print Name & Title

Site Location
Signature

For READ ONLY

- ☐ Approved and Stamped plans received and attached
☐ Scan as Amendment to Agreement when executed
☐ Processing fee received



**Real Estate
Assets**



SITE NAME: SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

LEGAL DESCRIPTION

PORTIONS OF PUEBLO LOTS 276 AND 312 OF THE PUEBLO LANDS OF SAN DIEGO, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF MADE BY JAMES PASCOE, A COPY OF WHICH SAID MAP WAS FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY AND KNOWN AS MISCELLANEOUS MAP NO. 36.



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CONSTRUCTION DRAWING

IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE

SITE INFORMATION

PROPERTY OWNER: CITY OF SAN DIEGO
1200 THIRD AVENUE, SUITE 1700,
SAN DIEGO, CA 92101
CONTACT: CARLA GRESHAM
PHONE: (619) 236-6729

APPLICANT: VERIZON WIRELESS
ADDRESS: 15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

LATITUDE: 32.7549 / 32° 45' 17.54"
LONGITUDE: -117.21173056 / 117° 12' 42.23"
LAT/LONG TYPE: NAD-83
GROUND ELEVATION: 0.0' AGL
JURISDICTION: CITY OF SAN DIEGO
OCCUPANCY: U
ZONING CLASSIFICATION: CC-3-4/RM-2-5
CONSTRUCTION TYPE: 1-A (SPORTS ARENA)
EXISTING EQUIPMENT AREA: 360 SQ. FT. (SHELTER)
APN: 441-590-04

PROJECT TEAM

CLIENT REPRESENTATIVE:
RODNEY PHILIPPO
SITE ACQUISITION MANAGER
PLANCON, INC.
302 STATE PLAZA
ESCONDIDO, CA 92029
PHONE: (619) 200-2260

STRUCTURAL ENGINEER:
NEXT STEP DESIGN INC.
26170 ENTERPRISE WAY SUITE 400
LAKE FOREST, CA 92603
CONTACT: SCOTT BETANCOURT
PHONE: (949) 215-3339
FAX: (949) 457-9375

PROJECT MANAGER:
M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE, CA 92673
CONTACT: MANNY FIGUEROA
PHONE: (949) 394-9696

DRIVING DIRECTIONS

DIRECTIONS FROM VERIZON SAN DIEGO OFFICE:

1. GET ON I-8 W FROM CAMINO DE LA REINA AND CAMINO DEL RIO N
2. TURN LEFT ONTO CAMINO DEL ARROYO
3. TURN LEFT ONTO CAMINO DEL RIO N
4. TURN RIGHT TO MERGE ONTO I-5 S
5. MERGE ONTO I-8 W
6. TURN RIGHT ONTO SPORTS ARENA BLVD
7. TURN RIGHT AND THE DESTINATION TO YOUR LEFT

APPLICABLE CODES

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.

- 2019 CALIFORNIA FIRE CODE AND LOCAL AMENDMENTS
- 2019 CALIFORNIA BUILDING CODE AND LOCAL AMENDMENTS
- 2019 CALIFORNIA MECHANICAL CODE AND LOCAL AMENDMENTS
- 2019 NATIONAL ELECTRIC CODE AND LOCAL AMENDMENTS
- 2019 CALIFORNIA GREEN BUILDING CODE AND LOCAL AMENDMENTS

• A.D.A. COMPLIANCE
INSTALLATION IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED PER A.D.A.

STATEMENT OF SPECIAL INSPECTIONS

NOTES:

1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. REFER TO SECTION 1704 FOR SPECIAL INSPECTOR'S DUTIES.
2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER SECTION 1704.1.
3. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS, AND EQUIPMENTS.
4. NOTICE TO THE APPLICANT/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.
5. NOTICE TO THE 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 REQUIREMENT 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.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SCHEDULE TO THE TEST AND INSPECTION FIRM TO FACILITATE THE PROPER COORDINATION OF WORK.
7. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
8. 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.
10. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTION, TESTING AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD OR ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.
11. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION: NO SPECIAL INSPECTIONS REQUIRED.

DRAWING INDEX

SHEET NO:	SHEET TITLE	SHEET NO:	SHEET TITLE
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A-3	ELEVATIONS		
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PROJECT DESCRIPTION

VERIZON WIRELESS PROPOSES TO MODIFY AN EXISTING UNMANNED WIRELESS TELECOMMUNICATION FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- REMOVE (3) (E) VERIZON WIRELESS ANTENNAS
- INSTALL (3) (N) VERIZON WIRELESS ANTENNAS

TOTALS AT COMPLETION OF WORK:

- (12) VERIZON WIRELESS ANTENNAS
- (6) VERIZON WIRELESS RRU'S
- (3) VERIZON SURGE PROTECTORS

NO NEW BATTERIES FOR THIS SCOPE OF WORK.

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.

LANDLORD: _____ DATE: _____

PROJECT MANAGER: _____ DATE: _____

CONSTRUCTION MANAGER: _____ DATE: _____

RF ENGINEER: _____ DATE: _____

SITE ACQUISITION: _____ DATE: _____

ZONING MANAGER: _____ DATE: _____

UTILITY COORDINATOR: _____ DATE: _____

NETWORK OPERATIONS: _____ DATE: _____

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARED
WIRELESS

1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 394-9624

PROJECT NO:

DRAWN BY: _____ NC

CHECKED BY: _____ MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	08/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION WHEN REQUIRED BY H.A.U. 15-15-13.

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.

SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
TITLE SHEET

SHEET NUMBER

T-1

GENERAL CONSTRUCTION NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR - GENERAL CONTRACTOR
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - VERIZON WIRELESS
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND VERIZON WIRELESS PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE NEW WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS AND CONDITIONS THAT THE WORK MAY BE ACCOMPANIED 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 VERIZON WIRELESS 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 NOW 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 SHOW 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 DISORDER FREE.
- 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-A10-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 PERS 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 AND EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CARPED, 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 90 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 NEW 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 VERIZON WIRELESS TECHNICIANS.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE NEW.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION VERIZON WIRELESS GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GROUNDING 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 STRONG 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 NEW. EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
- NO LANDSCAPING IS NEW 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 WITH 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 STARTING OF HIS WORK. FAILURE TO COMPLY WITH THIS REQUIREMENT IN NO WAY RELIEVES 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 AND 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
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 RESTRICTIONS, LOCATION OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNER'S 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.
- 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 REGULATORY 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 "EXCAVATION, AND BACKFILLING."
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE (N) AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S 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 CONTRACTOR'S 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" 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 - 1890. 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 "WHITE 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.
- EO 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 AND 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.

ENVIRONMENTAL NOTES

- 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.
- 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 AND RELEASE OF SITE.
- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- 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.
- SEEDING AND MULCHING AND/OR SOODING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- 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.
- RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRAGILE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARED
WIRELESS

1367 GALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

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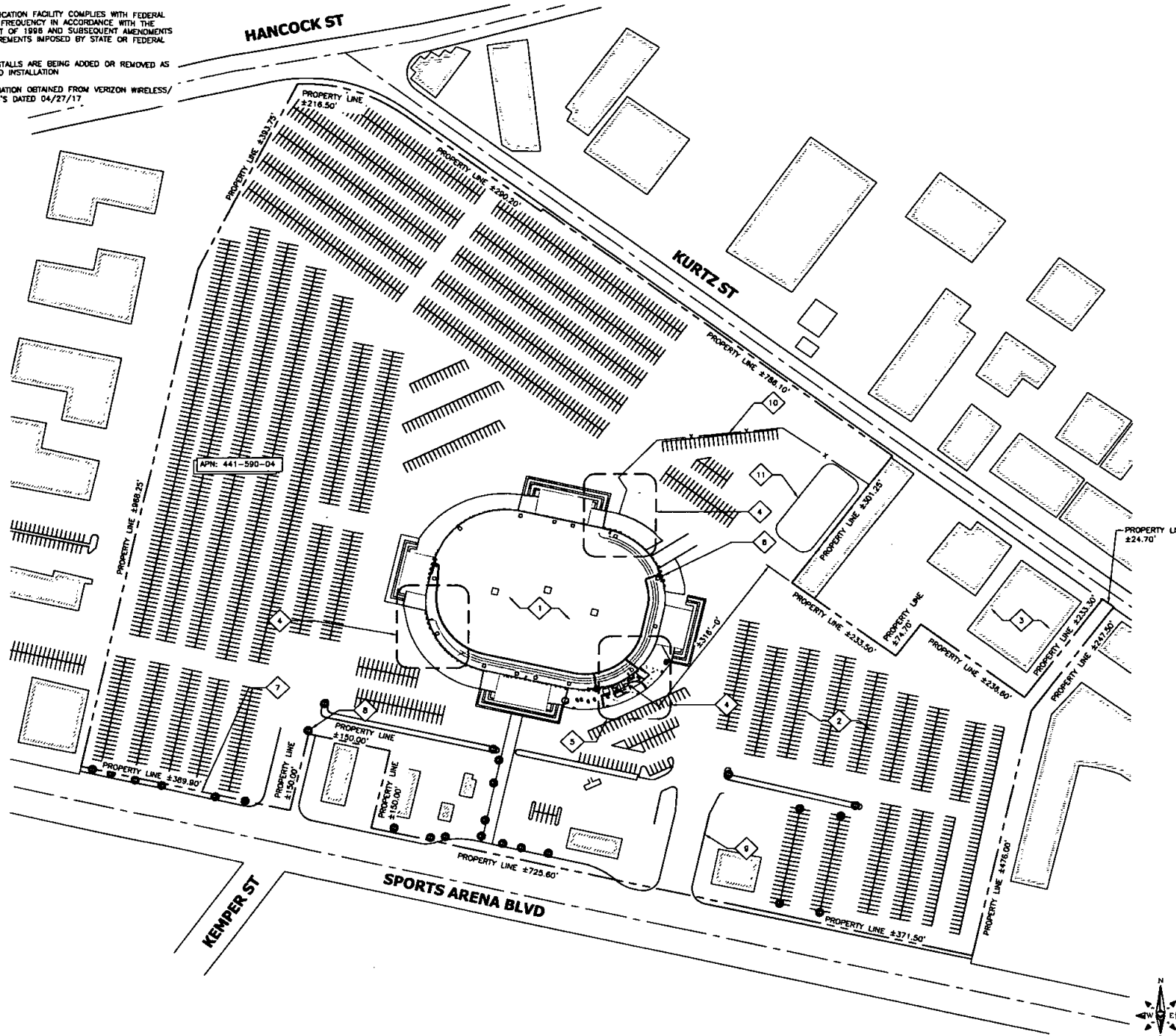
SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

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. PROPERTY LINE INFORMATION OBTAINED FROM VERIZON WIRELESS/BOOTH AND SUAREZ CD'S DATED 04/27/17.



SITE PLAN

24"x36" SCALE: 1" = 100'-0"
11"x17" SCALE: 1" = 200'-0"



1

- 1 (E) BUILDING ROOFTOP (TYP)
- 2 (E) PARKING LOT TYP.
- 3 (E) BUILDING TYP.
- 4 (N) & (E) VZW ANTENNAS MOUNTED BEHIND (E) VZW FRP SCREENING
- 5 (E) ENLARGED SITE & VZW EQUIPMENT SHELTER
- 6 (E) PANEL ANTENNAS TYP. (BY OTHERS)
- 7 (E) PROPERTY LINE TYP.
- 8 (E) TREE TYP.
- 9 (E) ACCESS DRIVEWAY
- 10 (E) FENCE TYP.
- 11 (E) FILED.

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15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARE
WIRELESS
1397 CALLE AVANZADO
SAN CLEMENTE CA 92678 (951) 261-8224

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	05/22/2020	90% CD'S REVISED	NC
0	05/19/2020	90% CD'S FOR REVIEW	NC

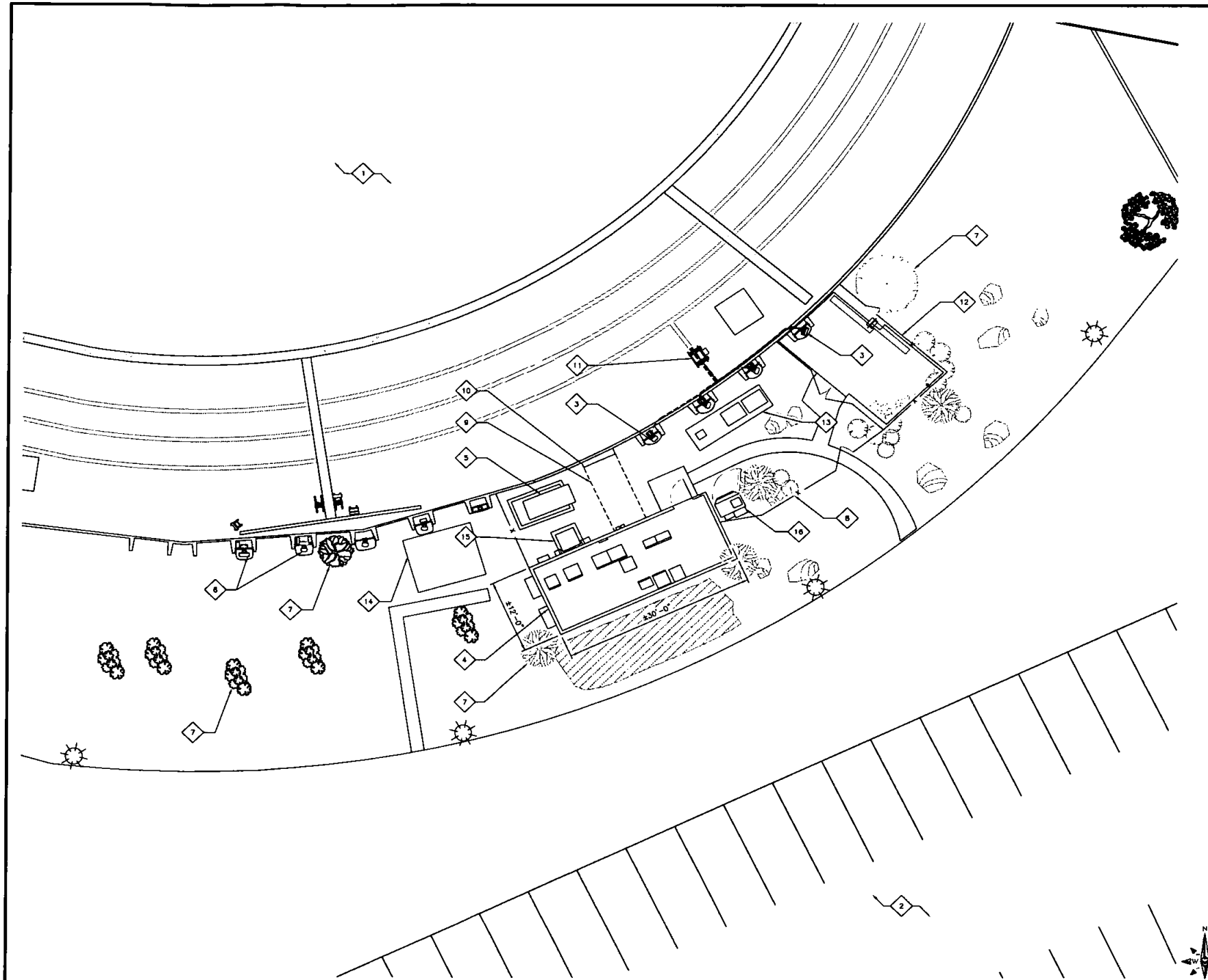
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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
SITE PLAN

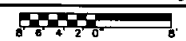
SHEET NUMBER
A-1

KEY NOTES



ENLARGED SITE PLAN

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"



1

- 1 (E) BUILDING ROOFTOP (TYP)
- 2 (E) PARKING LOT TYP.
- 3 (N) & (E) VZW ANTENNAS MOUNTED BEHIND (E) VZW FRP SCREENING TYP.
- 4 (E) VZW 12'-0" X 30'-0" EQUIPMENT SHELTER
- 5 (E) VZW 30KW GENERATOR
- 6 (E) PANEL ANTENNAS TYP. (BY OTHERS)
- 7 (E) TREE TYP.
- 8 (E) FENCE TYP.
- 9 (E) VZW COAX CABLE TRAY
- 10 (E) VZW COAX CABLE CHASE
- 11 (E) VZW H-FRAME ON ROOFTOP
- 12 (E) CHAIN LINK EQUIPMENT SHELTER (BY OTHERS.)
- 13 (E) CABINETS ON CONCRETE PAD (BY OTHERS)
- 14 (E) PREFABRICATED EQUIPMENT SHELTER (BY OTHERS)
- 15 (E) TRANSFORMER ON A CONCRETE PAD
- 16 (E) T-MOBILE EQUIPMENT CABINET

KEY NOTES

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15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARE
WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-4034

PROJECT NO:	
DRAWN BY:	NC
CHECKED BY:	MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	80% CD'S FOR REVIEW	NC

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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

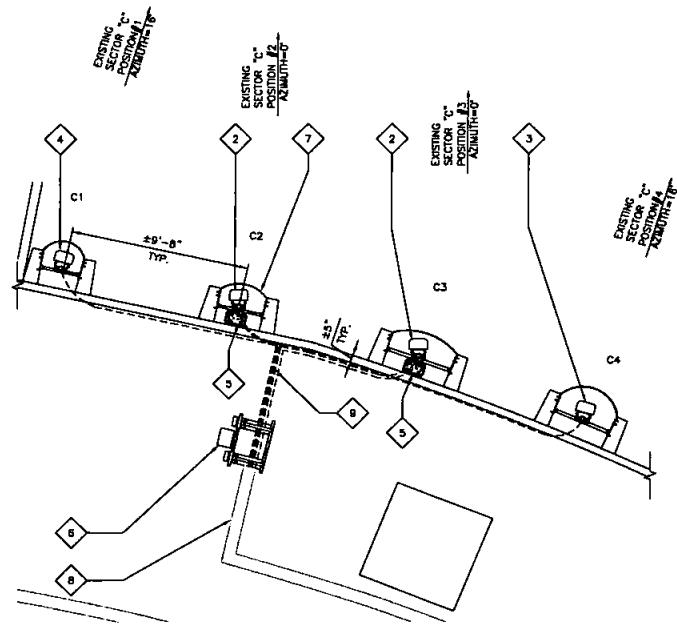
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-1.1

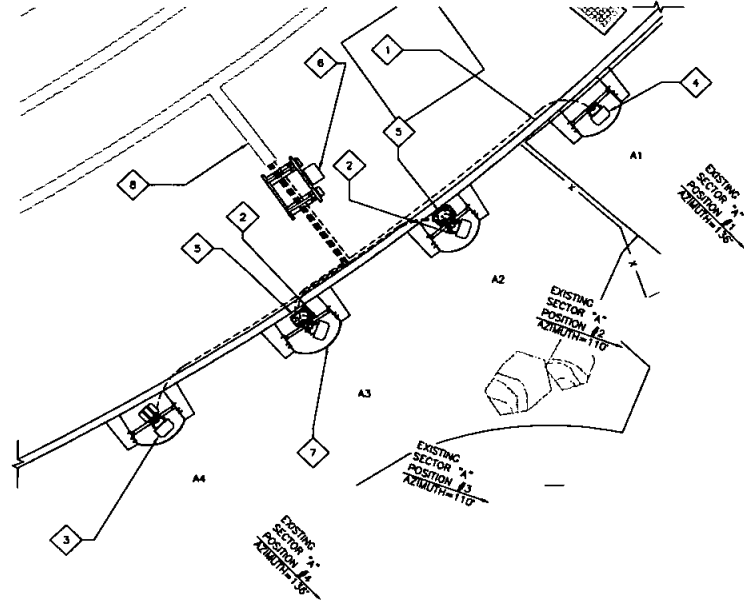
- 1 (E) BUILDING (TYP.)
- 2 (E) VZW 8' ANTENNAS TO REMAIN (2 PER SECTOR; 8 TOTAL).
- 3 (E) VZW 6' ANTENNAS TO REMAIN (1 PER SECTOR; 3 TOTAL).
- 4 (E) VZW ANTENNA TO BE REMOVED AND REPLACED (1 PER SECTOR; 3 TOTAL).
- 5 (E) VZW RRUS MOUNTED BEHIND ANTENNA TO REMAIN (2 PER SECTOR; 8 TOTAL).
- 6 (E) VZW SURGE SUPPRESSOR MOUNTED BEHIND ON H-FRAME TO REMAIN (3 TOTAL).
- 7 (E) VZW FRP SCREEN (TYP.)
- 8 (E) VZW CABLE TRAY TYP.

9 (E) VZW COAX/HYBRID CABLES TYP.

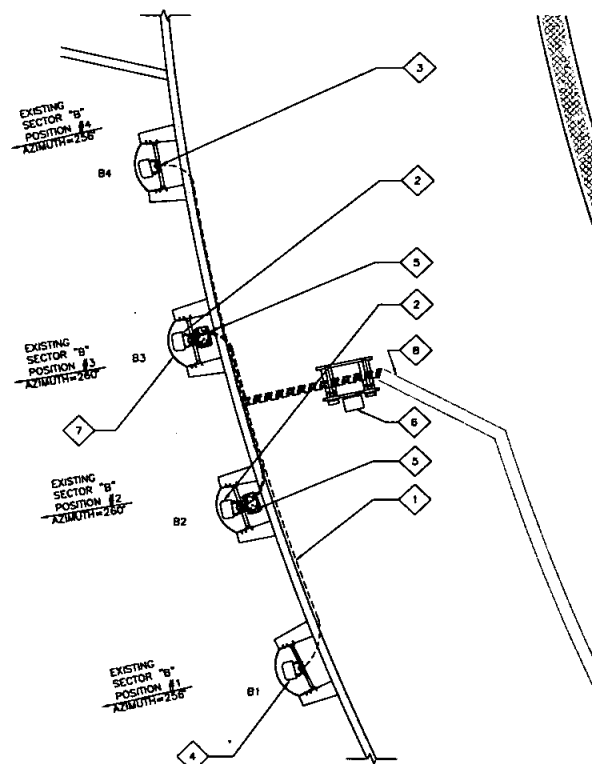
KEYNOTES



SECTOR 'C'



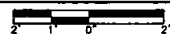
SECTOR 'A'



SECTOR 'B'

EXISTING ANTENNA PLAN

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



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15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARE
WIRELESS

1397 CALLE AVANZADO
SAN CLEMENTE CA 95073 (951) 991-0534

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

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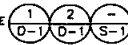
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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

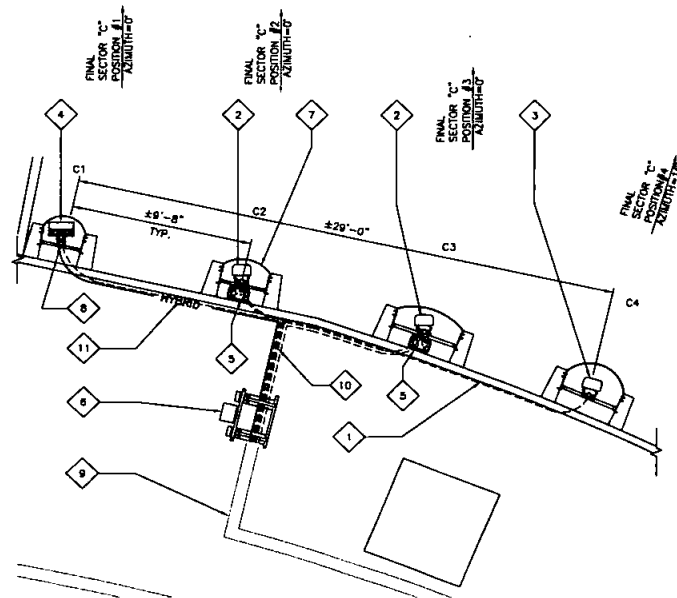
SHEET TITLE
EXISTING ANTENNA
PLAN LAYOUT

SHEET NUMBER
A-2

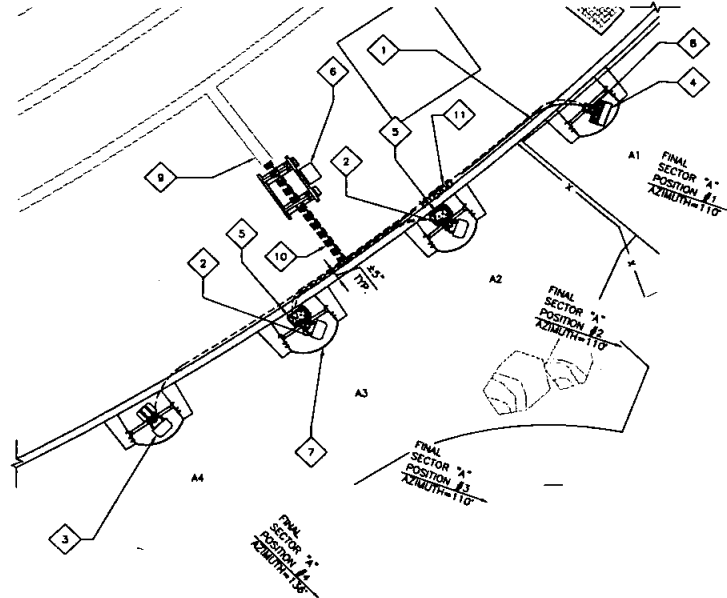
- 1 (E) BUILDING (TYP.)
- 2 (E) VZW 6' ANTENNAS (2 PER SECTOR, 6 TOTAL).
- 3 (E) VZW 6' ANTENNAS (1 PER SECTOR, 3 TOTAL).
- 4 (N) REPLACEMENT VZW ANTENNA MOUNTED ON (E) PIPE MOUNT WITH (N) RETROFIT (1 PER SECTOR, 3 TOTAL)
- 5 (E) VZW RRUS MOUNTED BEHIND ANTENNA (2 PER SECTOR, 6 TOTAL).
- 6 (E) VZW SURE SUPPRESSOR MOUNTED ON H-FRAME (3 TOTAL).
- 7 (E) VZW FRP SCREEN (TYP.)
- 8 (N) VZW P108B 90° FITTING WITH (1) 3/8" DIA. M.B THROUGH UNISTRUT AND (1) 3/8" DIA. M.B THROUGH PIPE
"ALL NEW STEEL TO BE GALVANIZED"
- 9 (E) VZW CABLE TRAY TYP.
- 10 (N) & (E) VZW COAX/HYBRID CABLES TYP.
- 11 (N) VZW HYBRID CABLE FOR (N) ANTENNAS.



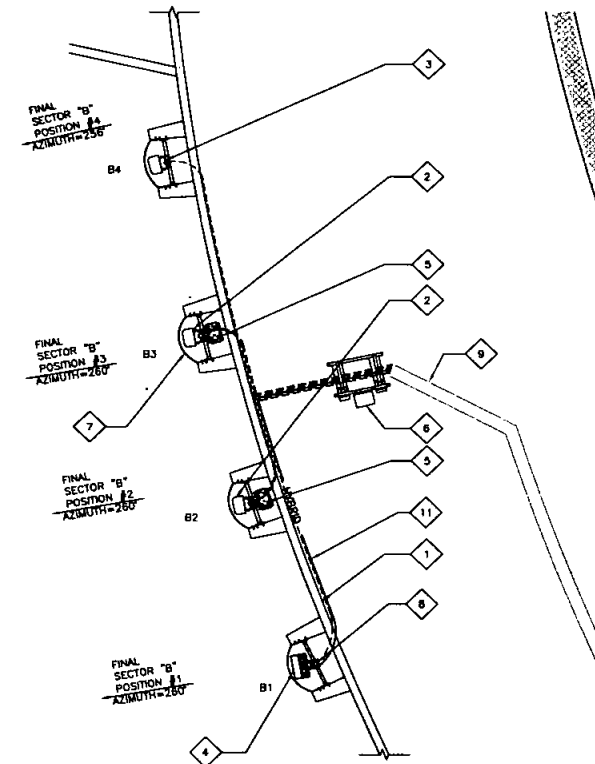
KEYNOTES



SECTOR 'C'



SECTOR 'A'



SECTOR 'B'

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15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARED
WIRELESS

1337 CALLE AVANZADO
SAN CLEMENTE CA 92073 (949) 991-0924

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110.

SHEET TITLE
NEW ANTENNA
PLAN LAYOUT

SHEET NUMBER
A-2.1



- 1

(E) BUILDING
- 2

(E) VZW 8' ANTENNAS TO REMAIN (2 PER SECTOR; 6 TOTAL).
- 3

(E) VZW 8' ANTENNAS TO REMAIN (1 PER SECTOR; 3 TOTAL).
- 4

(E) VZW ANTENNA TO BE REMOVED AND REPLACED (1 PER SECTOR; 3 TOTAL).
- 5

(E) VZW RRU'S TO REMAIN MOUNTED BEHIND ANTENNAS (2 PER SECTOR; 6 TOTAL).
- 6

(E) VZW FRP SCREEN (TYP.)
- 7

(N) REPLACEMENT VZW ANTENNAS MOUNTED ON (E) PIPE MOUNT WITH (N) RETROFIT (1 PER SECTOR; 3 TOTAL)
- 8

(E) TREE TYP.
- 9

(N) VZW P1068 90° FITTING WITH (1) 3/8" DIA. M.B THROUGH UNISTRUT AND (1) 3/8" DIA. M.B THROUGH PIPE
"ALL NEW STEEL TO BE GALVANIZED"
- 1

2

-

D-1

0-1

S-1
- S-1

verizon
15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARE
WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 991-0634

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/08/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-3

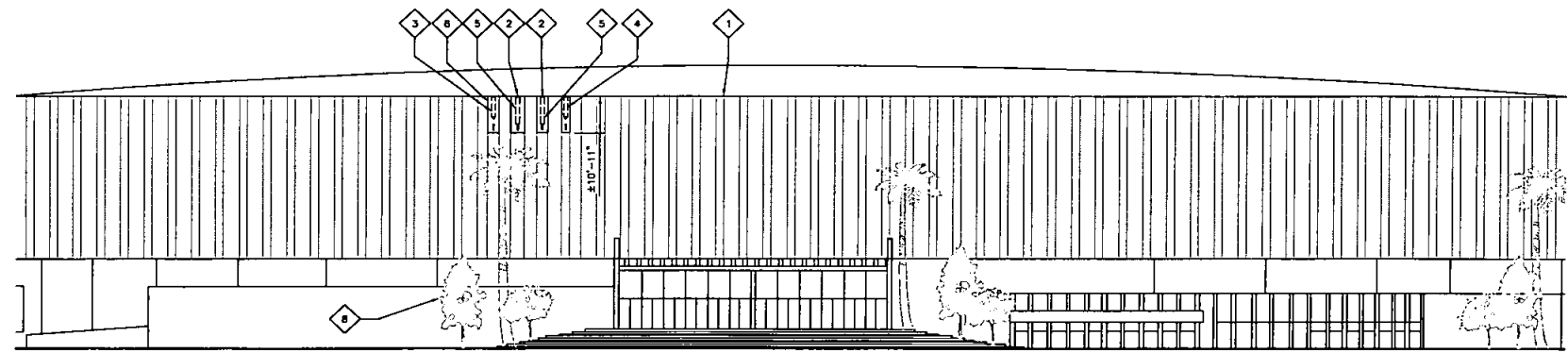
KEYNOTES

- TOP OF (E) BUILDING ±74'-9" A.G.L.

TOP OF (E) VZW ANTENNAS ±74'-8" A.G.L.

CENTER OF (E) VZW ANTENNAS ±71'-8" A.G.L.

CENTER OF (E) VZW ANTENNAS ±70'-8" A.G.L.
- TOP OF (E) F.S. 0'-0" A.G.L.



EXISTING NORTH ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
20' 10' 0' 20' 1

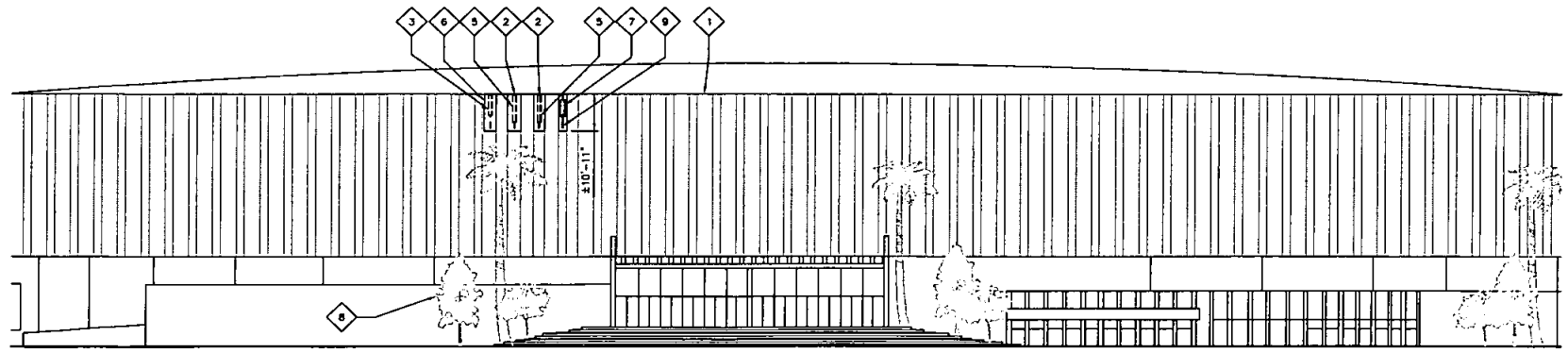
- TOP OF (E) BUILDING ±74'-9" A.G.L.

TOP OF (E) VZW ANTENNAS ±74'-8" A.G.L.

TOP OF (N) VZW ANTENNAS ±73'-0" A.G.L.

CENTER OF (E) VZW ANTENNAS ±71'-8" A.G.L.

CENTER OF (E) & (N) VZW ANTENNAS ±70'-8" A.G.L.
- TOP OF (E) F.S. 0'-0" A.G.L.



FINAL NORTH ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
20' 10' 0' 20' 2

- 1

(E) BUILDING
- 2

(E) VZW 8' ANTENNAS TO REMAIN (2 PER SECTOR; 6 TOTAL).
- 3

(E) VZW 6' ANTENNAS TO REMAIN (1 PER SECTOR; 3 TOTAL).
- 4

(E) VZW ANTENNA TO BE REMOVED AND REPLACED (1 PER SECTOR; 3 TOTAL).
- 5

(E) VZW RRU'S TO REMAIN MONTED BEHIND ANTENNAS (2 PER SECTOR; 6 TOTAL).
- 6

(E) VZW FRP SCREEN (TYP.)
- 7

(N) REPLACEMENT VZW ANTENNAS MOUNTED ON (E) PIPE MOUNT WITH (N) RETROFIT (1 PER SECTOR; 3 TOTAL)
- 8

(E) VZW WIRELESS EQUIPMENT SHELTER
- 9

(N) VZW P1066 90° FITTING WITH (1) 3/8" DIA. M.B THROUGH UNISTRUT AND (1) 3/8" DIA. M.B THROUGH PIPE
"ALL NEW STEEL TO BE GALVANIZED"
- 1

2

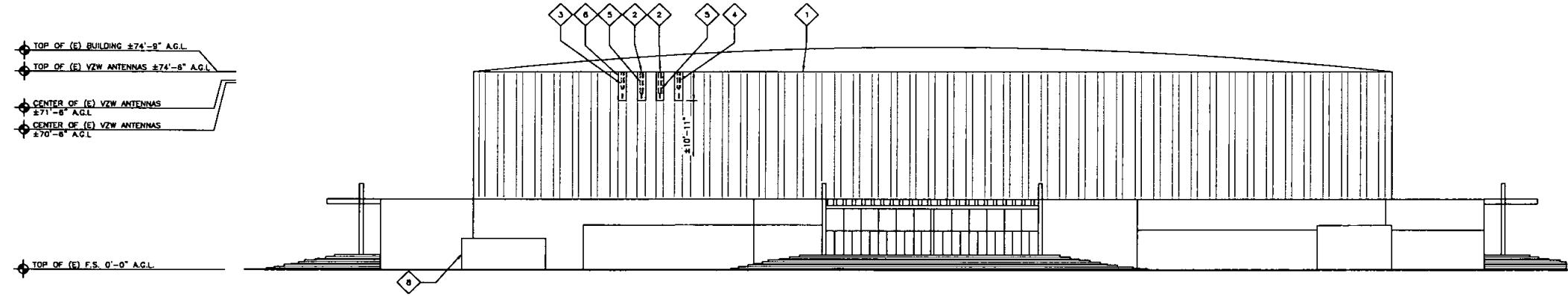
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D-1

D-1

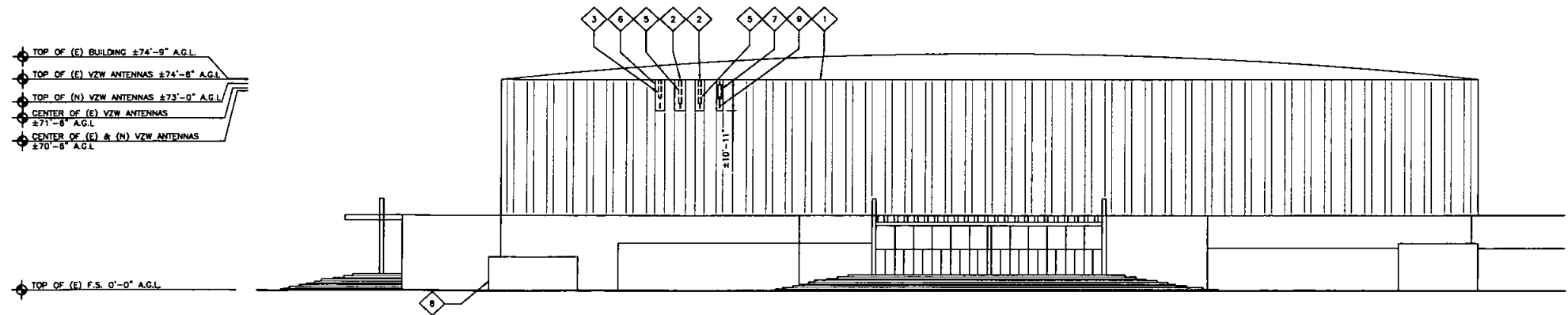
S-1
- S-1

KEYNOTES



EXISTING EAST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
20' 10' 0' 20' 1



FINAL EAST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
20' 10' 0' 20' 2

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15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARE
WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 891-8824

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-4

- 1

(E) BUILDING
- 2

(E) VZW 6' ANTENNAS TO REMAIN (2 PER SECTOR; 6 TOTAL).
- 3

(E) VZW 6' ANTENNAS TO REMAIN (1 PER SECTOR; 3 TOTAL).
- 4

(E) VZW ANTENNA TO BE REMOVED AND REPLACED (1 PER SECTOR; 3 TOTAL).
- 5

(E) VZW RRU'S TO REMAIN MONTED BEHIND ANTENNAS (2 PER SECTOR; 6 TOTAL).
- 6

(E) VZW FRP SCREEN (TYP.)
- 7

(N) REPLACEMENT VZW ANTENNAS MOUNTED ON (E) PIPE MOUNT WITH (N) RETROFIT (1 PER SECTOR; 3 TOTAL)
- 8

(E) TREE TYP.
- 9

(E) VZW WIRELESS EQUIPMENT SHELTER
- 10

(N) VZW P1068 90° FITTING WITH (1) 3/8" DIA. M.B. THROUGH UNISTRUT AND (1) 3/8" DIA. M.B. THROUGH PIPE "ALL NEW STEEL TO BE GALVANIZED"
- 1

2

3

4

5

6

7

8

9

10

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARE
WIRELESS

1397 CALLE AVANZADO
SAN CLEMENTE CA 92673 (951) 971-9224

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

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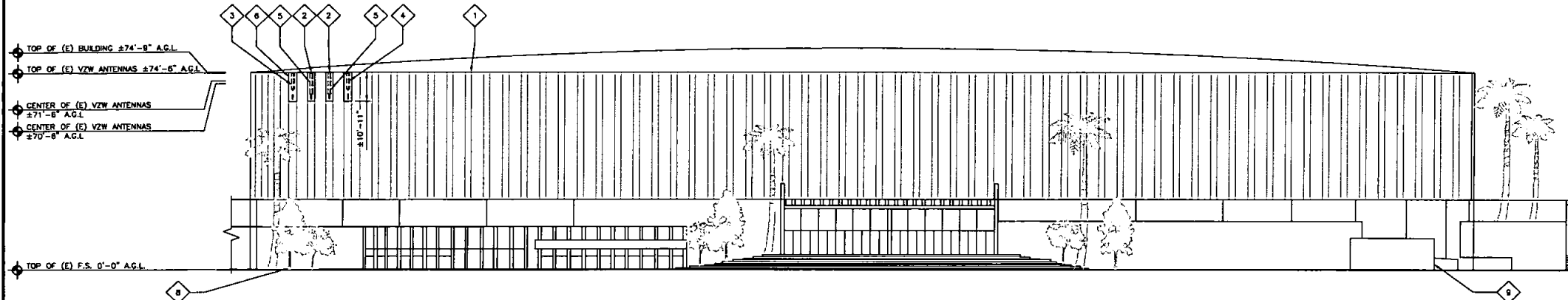
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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

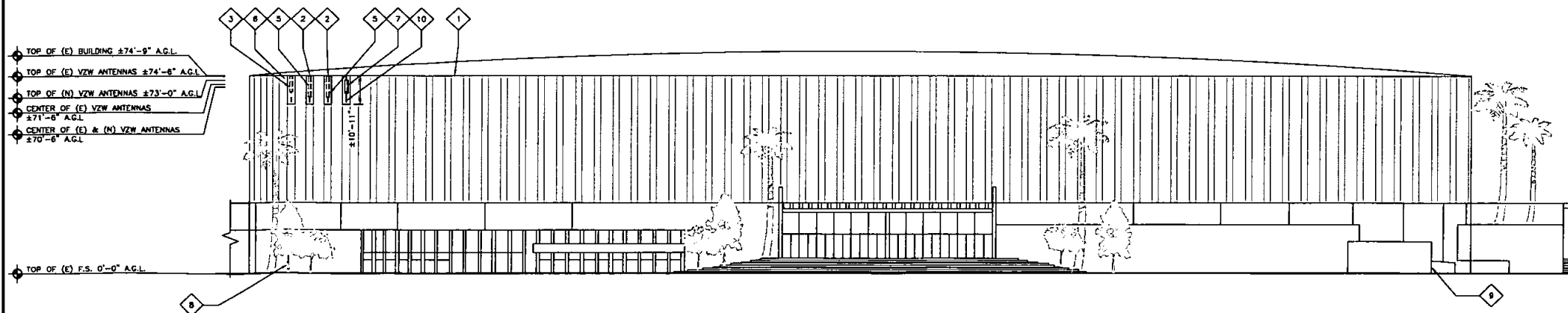
SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-5

KEYNOTES



EXISTING SOUTH ELEVATION



FINAL SOUTH ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"

- 1

(E) BUILDING
- 2

(E) VZW 8' ANTENNAS TO REMAIN (6 TOTAL).
- 3

(E) VZW 8' ANTENNAS TO REMAIN (3 TOTAL).
- 4

(E) VZW ANTENNA TO BE REMOVED AND REPLACED (3 TOTAL).
- 5

(E) VZW RRU'S TO REMAIN MOUNTED BEHIND ANTENNAS (6 TOTAL).
- 6

(E) VZW FRP SCREEN (TYP.)
- 7

(N) REPLACEMENT VZW ANTENNAS MOUNTED ON (E) PIPE MOUNT WITH (N) RETROFIT (1 PER SECTOR; 3 TOTAL)
- 8

(N) VZW P1068 90° FITTING WITH (1) 3/8" DIA. M.B THROUGH UNISTRUT AND (1) 3/8" DIA. M.B THROUGH PIPE
"ALL NEW STEEL TO BE GALVANIZED"
- 1

2

-

D-1

D-1

S-1
- S-1

KEYNOTES

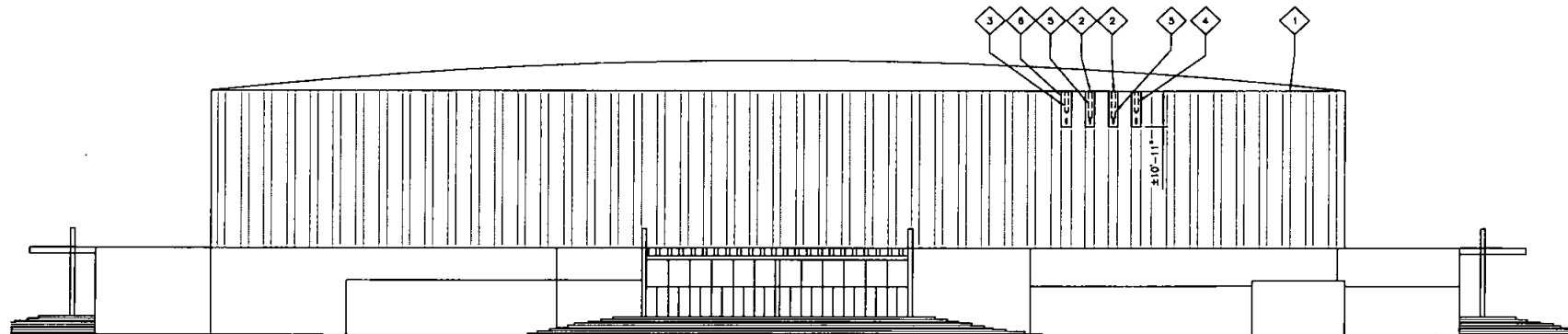
- TOP OF (E) BUILDING ±74'-9" A.G.L.

TOP OF (E) VZW ANTENNAS ±74'-6" A.G.L.

CENTER OF (E) VZW ANTENNAS ±71'-8" A.G.L.

CENTER OF (E) VZW ANTENNAS ±70'-8" A.G.L.

TOP OF (E) F.S. 0'-0" A.G.L.



EXISTING WEST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
20' 10' 0' 20'

- TOP OF (E) BUILDING ±74'-9" A.G.L.

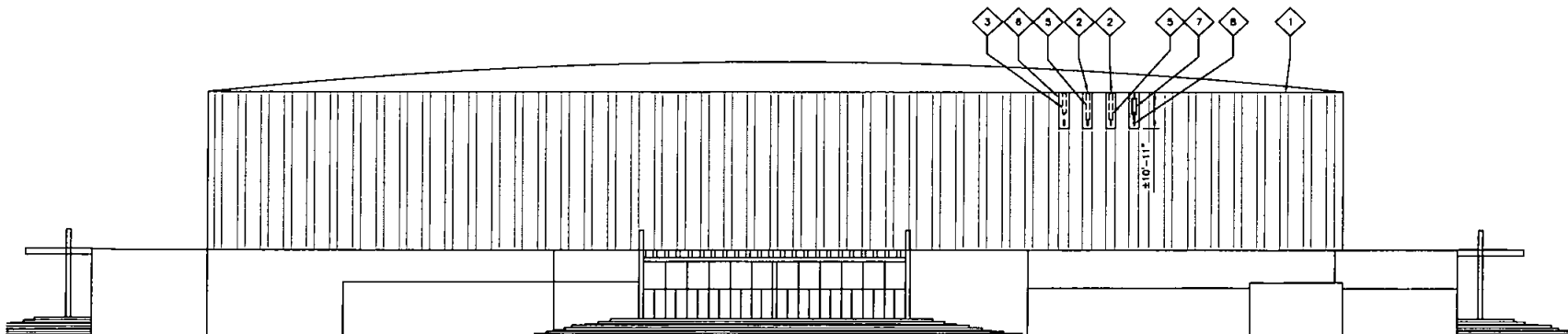
TOP OF (E) VZW ANTENNAS ±74'-6" A.G.L.

TOP OF (N) VZW ANTENNAS ±73'-0" A.G.L.

CENTER OF (E) VZW ANTENNAS ±71'-8" A.G.L.

CENTER OF (E) & (N) VZW ANTENNAS ±70'-8" A.G.L.

TOP OF (E) F.S. 0'-0" A.G.L.



FINAL WEST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
20' 10' 0' 20'

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARED
WIRELESS

1597 CALLE AVANZADO
SAN CLEMENTE CA 92673 (408) 991-0824

PROJECT NO:
DRAWN BY: NC
CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
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SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-6

HEIGHT (H)95.984"
WIDTH (W)11.85"
DEPTH (D)7.067"
WEIGHT51.588 LBS.
SURVIVAL WIND SPEED:150.0 MPH
CONNECTOR:(6) 7-16 DIN FEMALE - BOTTOM
MOUNTING POLE:2.4 - 4.5 INCHES

FRONT OF ANTENNA

W

D

BOTTOM VIEW

H

FRONT VIEW

SIDE VIEW

MANUFACTURER:--
MODEL NO.:--
DIMENSIONS:
HEIGHT58.3"
WIDTH15.6"
DEPTH9.4"

TOTAL WEIGHT:203 LBS

FRONT OF ANTENNA

D

W

BOTTOM VIEW

Z

FRONT VIEW

D

SIDE VIEW

NOT USED

7 (E) 8'-0" PANEL ANTENNA
24"x36" SCALE: NTS
11"x17" SCALE: NTS

4 (N) ANTENNA
24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

HEIGHT (H)75.5"
WIDTH (W)11.85"
DEPTH (D)6.0"
WEIGHT56.2 LBS.
SURVIVAL WIND SPEED:> 150.0 MPH
WIND LOADING, MAXIMUM:
FRONT:980 N @ 150 km/h
SIDE:221 N @ 150 km/h
CONNECTOR:4: 7-16 DIN FEMALE - BOTTOM
MOUNTING POLE:2-4.6 INCHES (5-11.5 CM)

FRONT OF ANTENNA

W

D

BOTTOM VIEW (CONNECTIONS)

Z

FRONT VIEW

SIDE VIEW

NOT USED

8 (E) 6' QUAD-PORT ANTENNA
24"x36" SCALE: NTS
11"x17" SCALE: NTS

5 (E) ANTENNA MOUNTING
24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

MANUFACTURER:--
MODEL NO.:--
DIMENSIONS:
A15"
B13.2"
C9.3"

TOTAL WEIGHT:70 LBS (31.7 kg)

RRU UNIT

MFR'S STANDARD MOUNTING BRACKETS

BOTTOM VIEW

C

RRU UNIT

MFR'S STANDARD MOUNTING BRACKETS

FEET

SIDE VIEW

B

FRONT VIEW

NOT USED

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

6 (E) RRUS
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CA 92618

M SQUARE

WIRELESS

1387 CALLE AVANZADO
SAN CLEMENTE CA 92779 (949) 391-0834

PROJECT NO:

DRAWN BY: NC

CHECKED BY: MM

REV	DATE	DESCRIPTION	BY
2	07/06/2020	90% CD'S REVISED	NC
1	06/22/2020	90% CD'S REVISED	NC
0	06/19/2020	90% CD'S FOR REVIEW	NC

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SPORTS ARENA (MIMO)

3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE

DETAILS

SHEET NUMBER

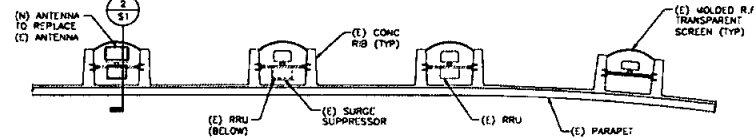
D-1

GENERAL NOTES:

- DESIGN CRITERIA:
 DESIGN CODE: 2019 CALIFORNIA BUILDING CODE (CBC)
 S_w = 1.44 SDC = 0
 S_s = 0.484 WIND SPEED = 74 M.P.H. (A.S.D.)
 F_s = 1.0 F_w = 1.81 WIND EXPOSURE = 0
 F_o = 1.0
- ALL MATERIALS AND WORK PERFORMED SHALL CONFORM WITH THE REQUIREMENTS OF THE CODE AND GOVERNING BUILDING ORDINANCES.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- WHERE A SECTION OR TYPICAL DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THIS ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID.
- ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HEREIN DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OF LABOR SPECIFIED.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES INCLUDING, BUT NOT LIMITED TO, BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT OF ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
- GENERAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL GRADES, DIMENSIONS, AND CONDITIONS PRIOR TO BIDDING AND COMMENCING CONSTRUCTION. ALL DIMENSIONS CONTROLLED BY EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONFORMANCE WITH THE EXISTENCE OF THIS WORK.
- GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS, PRIOR TO STARTING WORK.
- 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 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. (NEW ISSUE)
- 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. (NEW ISSUE)
- WHERE MATERIALS OR ASSEMBLIES ARE REQUIRED BY THE BUILDING CODE TO BE LABELED, SUCH MATERIALS AND ASSEMBLIES SHALL BE LABELED BY AN AGENCY APPROVED BY THE CITY OF SAN DIEGO IN ACCORDANCE WITH SECTION 1703. PRODUCTS AND MATERIALS TO BE LABELED SHALL BE TESTED, INSPECTED AND LABELED IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN SECTIONS 1703.5.1 THROUGH 1703.5.3. IDENTIFY ON PLANS, NAME AND ADDRESS OF THE TESTING/INSPECTION AGENCY.

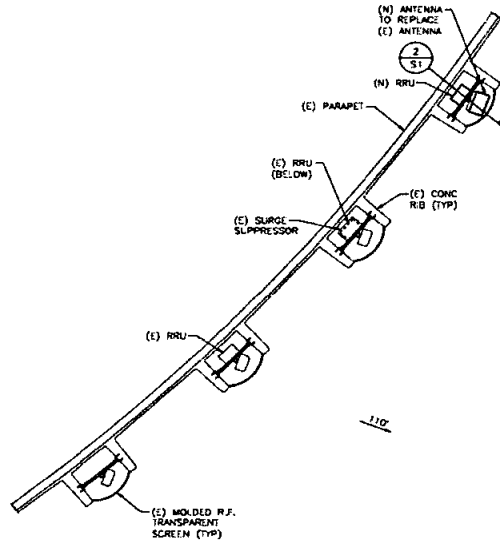
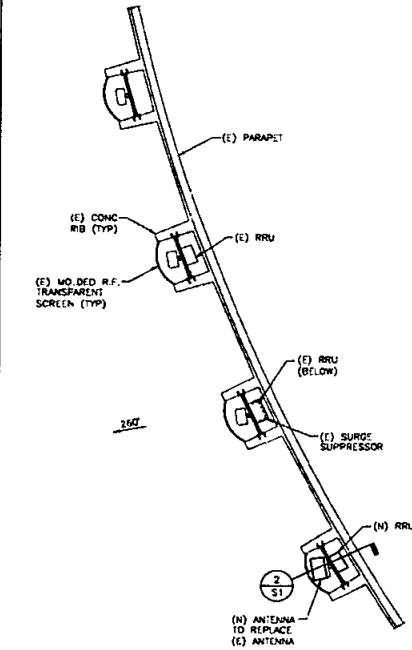
ABBREVIATIONS:

AB - ANCHOR BOLT	WB - MACHINE BOLT
ABT - ABOVE FINISH FLOOR	W.N. - MINIMUM
BTM - BOTTOM	(N) - NEW
CJ - CEILING JOIST	NTS - NOT TO SCALE
CLR - CLEAR	NS - NEAR SIDE
CONC - CONCRETE	OC - ON CENTER
CONT - CONTINUOUS	OD - OUTSIDE DIAMETER
DM - DIMENSION	OH - OPPOSITE HAND
DBL - DOUBLE	PLCS - PLACES
DA - DIAMETER	REQD - REQUIRED
(E) - EXISTING	SW - SIMILAR
EA - EACH	SQ - SQUARE
EQ - EQUAL	STD - STANDARD
EQUIP - EQUIPMENT	STIFF - STIFFEN
FDN - FOUNDATION	THK - THICK
FRP - FIBER REINFORCED PLASTIC	T.O. - TOP OF
FS - FAS SIDE	TS - TUBE STEEL
FTG - FOOTING	TYP - TYPICAL
HORIZ - HORIZONTAL	UN - UNLESS OTHERWISE NOTED
ID - INSIDE DIAMETER	VERT - VERTICAL

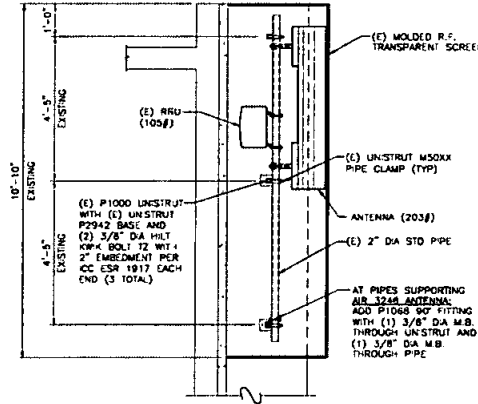


ANTENNA MOUNTING PLAN

SCALE: 1/4"=1'-0"

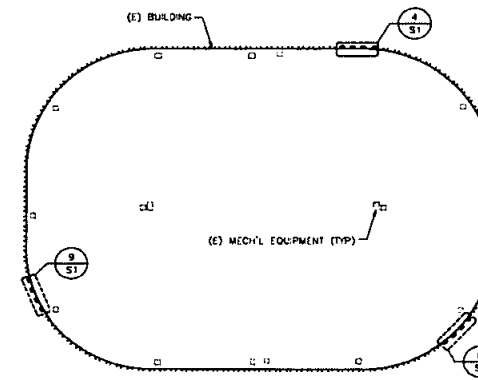


- NOTES:
- ALL STEEL TO BE GALVANIZED.
 - ANTENNA ASSEMBLY CONSISTS OF ANTENNA AND TWO MOUNTING BRACKETS. EACH BRACKET IS ATTACHED TO THE PIPE WITH (2) 3/8" DIA A36 THREADED RODS.



ANTENNA MOUNT (SECTION)

SCALE: 1/2"=1'-0"



REV.	DATE/BY:	REVISION DESCRIPTION:

SITE BUILDER:

verizon

15505 SAND CANYON AVE.
BUILDING 'D' 1st. FLOOR
IRVINE, CA 92618
PHONE (949) 286-7000

CONSULTANT:

BASE
CONSULTING

PO Box 5438, San Clemente, CA 92674
Mobile: 949.233.2862
Fax: 949.313.1907

ENGINEER/CONSULTANT:

next step
DESIGN, INC

28170 ENTERPRISE WAY SUITE 400
LAKE FOREST, CA 92650
PHONE: (949) 818-3339
FAX: (949) 457-8375

SEAL:



SITE INFO:

SITE NAME:

SPORTS ARENA

SITE ADDRESS:

3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110

SHEET TITLE:

**ANTENNA MOUNTING PLANS
NOTES AND DETAILS**

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
S:DWG	NM	03/25/20

SHEET NUMBER:

S-1

CONSTRUCTION NOTES

ANTENNA MOUNTING PLAN

SCALE: 1/4"=1'-0"

ANTENNA MOUNTING PLAN

SCALE: 1/4"=1'-0"

KEY PLAN

SCALE: 1/4"=1'-0"

GENERAL ELECTRICAL NOTES

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS

1387 CALLE AVANZADO
SAN CLEMENTE CA 95073 (408) 291-0224

PROJECT NO:
DRAWN BY: MF
CHECKED BY: MM

2	07/06/2020	90% CD'S REVISED	NC	
1	05/22/2020	90% CD'S REVISED	NC	
0	05/19/2020	90% CD'S FOR REVIEW	NC	
REV	DATE	DESCRIPTION	BY	

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ELECTRICAL NOTES, ABBREVIATIONS,
ELECTRICAL LEGEND

SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
ELECTRICAL NOTES AND
LEGEND

SHEET NUMBER

G-1

- SUBMITTAL OF BIO INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PREFORMED UNDER THIS CONTRACT.
- 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.
- THESE PLANS ARE SCHEMATIC ONLY; CONTRACTOR SHALL FOLLOW AS CLOSELY AS POSSIBLE.
- ANTENNA MOUNTING HEIGHTS AND AZIMUTHS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- 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.
- 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.
- 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.
- 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.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL CODES AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC.
- 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.
- 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.
- CLEAN WORK SITE DAILY, AND REMOVE ALL DEBRIS RESULTING FROM CONSTRUCTION. LEAVE JOB SITE IN A TIDY AND UNDAMAGED CONDITION.
- 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.
- 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.
- ALL BROCHURES, OPERATING MANUAL, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- 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.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING 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.
- 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.
- 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.I. RATED MATERIALS.
- 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.
- ALL CONDUIT ONLY (C.O.) RUNS SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.
- 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.
- 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.
- 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.
- 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 SILVERBRITTE (ALUMINUM).
- 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.
- 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.
- COMPRESSION FITNESS TO BE USED ON ALL CONDUITS (NO SETSCREWS).
- 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.
- 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

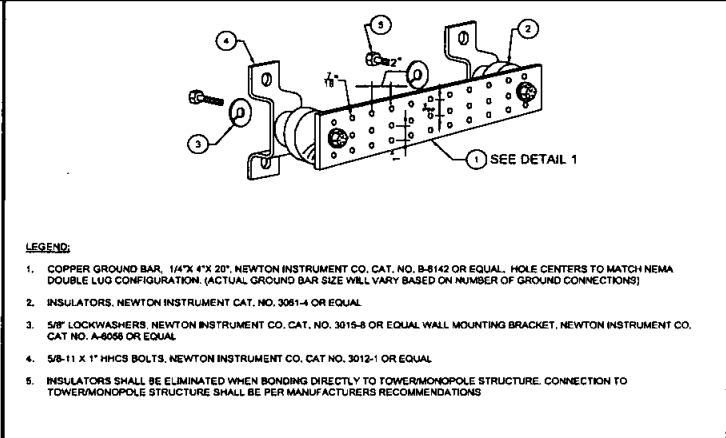
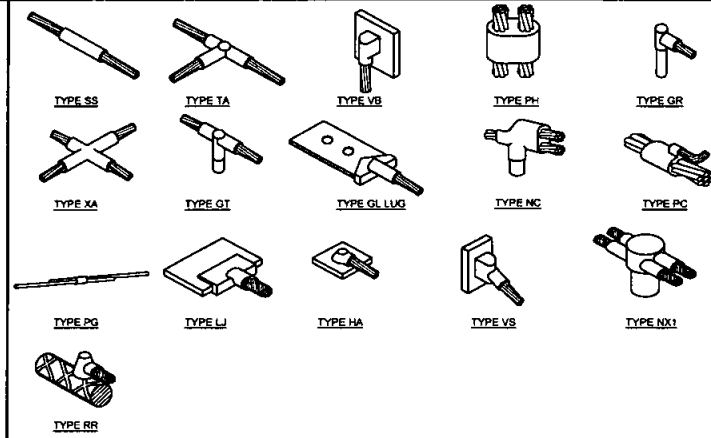
AAV	ALTERNATE ACCESS VENDOR	GR	GROWTH (CABINET)	UADU	UNIVERSAL TYPE A DIGITAL UNIT
ACCA	ANTENNA CABLE ASSEMBLY	GRC	GALVANIZED RIGID (STEEL) CONDUIT	U/G	UNDERGROUND
AFB	ABOVE FINISHED FLOOR	IGB	INTERIOR GROUND BAR	WP	WEATHERPROOF
AFG	ABOVE FINISHED GRADE	IGR	INTERIOR GROUND RING	WW	WIREFWAY
AW5	ADVANCED WIRELESS SERVICES	IMC	INTERMEDIATE METALLIC CONDUIT	XFMW	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		
COB	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	SS	STAINLESS STEEL		
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		
GPS	GLOBAL POSITIONING SYSTEM	TYP	TYPICAL		

ELECTRICAL LEGEND

- UGP -	UGP	UGP	-	EXISTING U/G ELECTRICAL	- X -	X	X	-	EXISTING CHAINLINK FENCE
- OE -	OE	OE	-	EXISTING O/H ELECTRICAL	- X -	X	X	-	PROPOSED CHAINLINK FENCE
- AGP -	AGP	AGP	-	EXISTING A/G ELECTRICAL					EXISTING WOOD FENCE
- UGT -	UGT	UGT	-	EXISTING U/G TELEPHONE					PROPOSED WOOD FENCE
- FO -	FO	FO	-	EXISTING FIBER OPTIC					
- HFLEX -	HFLEX	HFLEX	-	EXISTING HYBRIFLEX CABLE					
- UGP -	UGP	UGP	-	PROPOSED U/G ELECTRIC					
- OE -	OE	OE	-	PROPOSED O/H ELECTRIC					
- AGP -	AGP	AGP	-	PROPOSED A/G ELECTRIC					
- UGT -	UGT	UGT	-	PROPOSED U/G TELEPHONE					
- FO -	FO	FO	-	PROPOSED FIBER OPTIC					
- HFLEX -	HFLEX	HFLEX	-	PROPOSED HYBRIFLEX CABLE					



ELEVATION/SECTION REFERENCE. TOP
NUMBER IS THE DETAIL; BOTTOM
NUMBER IS THE SHEET NO.



- LEGEND:**
1. COPPER GROUND BAR, 1/4"X 4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-8142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3081-4 OR EQUAL
 3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6055 OR EQUAL
 4. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR EQUAL
 5. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS

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

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

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

15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

1557 GALLS AVANZADO
SAN CLEMENTE CA 92673 (949) 991-0024

PROJECT NO:			
DRAWN BY:		MF	
CHECKED BY:		MM	
2	07/06/2020	90% CD'S REVISED	NC
1	08/22/2020	90% CD'S REVISED	NC
0	08/18/2020	90% CD'S FOR REVIEW	NC
REV	DATE	DESCRIPTION	BY

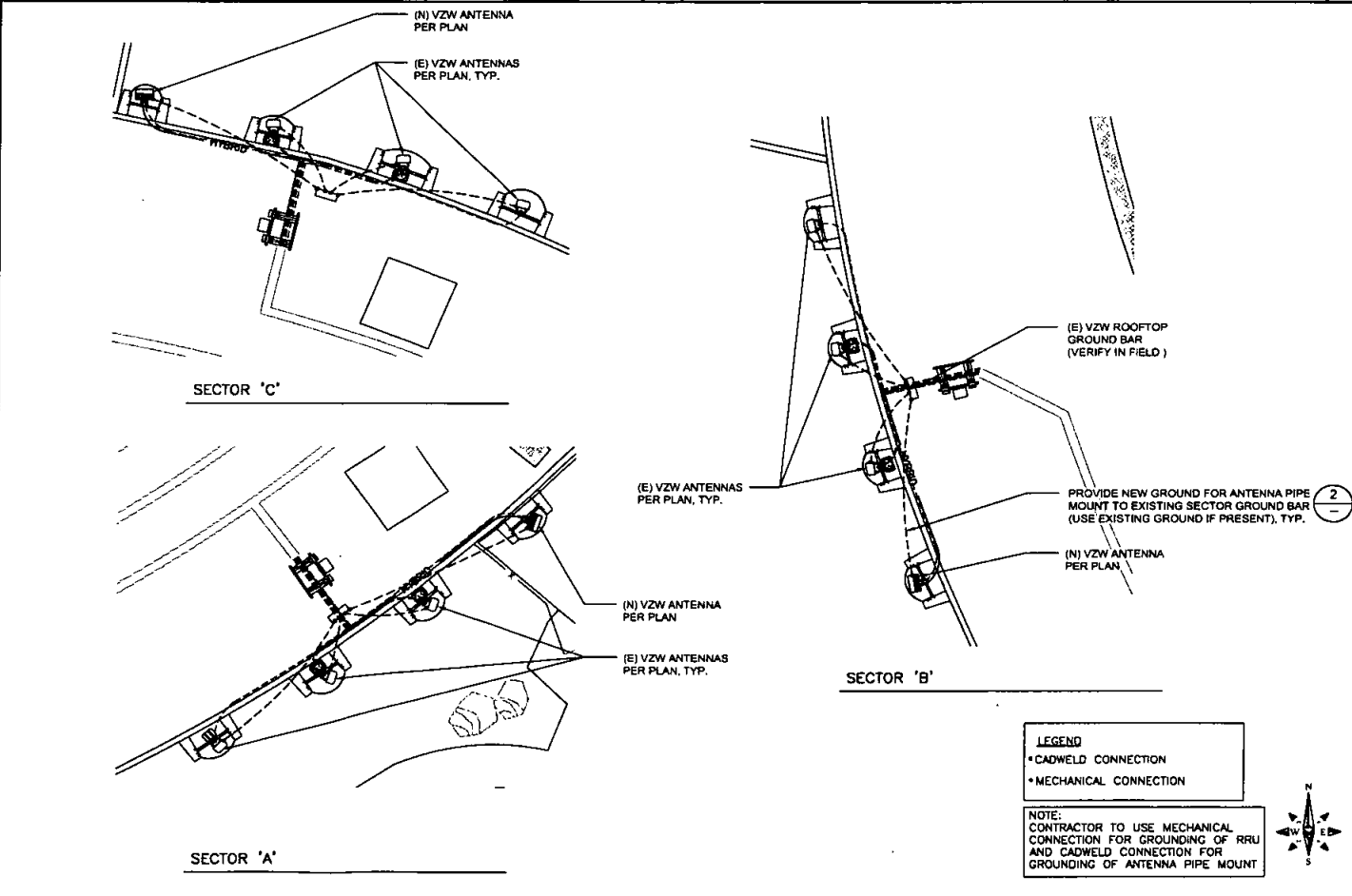
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISORIAL CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION WHEN REQUIRED BY H.A.R. 16-115.4.

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.

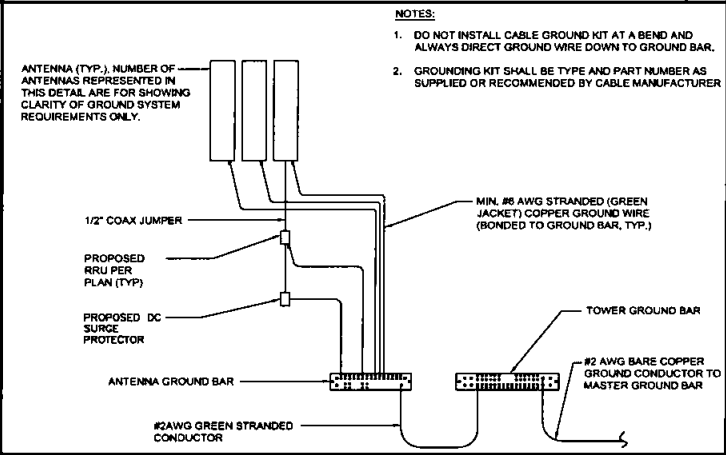
SPORTS ARENA (MIMO)
3500 SPORTS ARENA BLVD.
SAN DIEGO, CA 92110

SHEET TITLE
ELECTRICAL GROUNDING
DETAILS

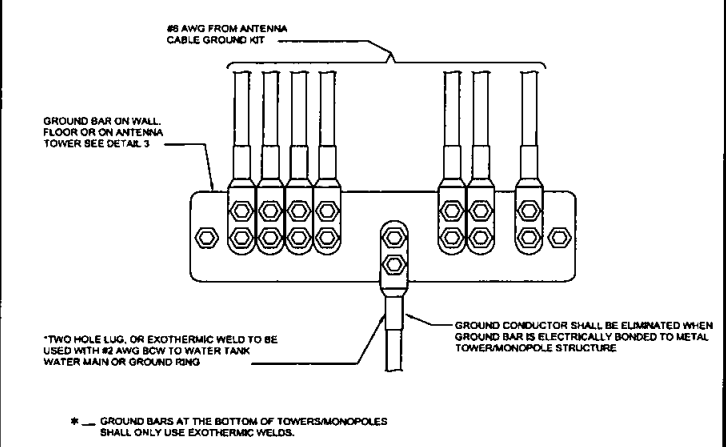
SHEET NUMBER
G-2



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



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



6 WIRE TO GROUND BAR CONNECTION 24"x36" SCALE: NTS 11"x17" SCALE: NTS

3