

City Consent Application

September 22, 2016

(Date)

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

RE: Site Address: 1513 Station Court, San Diego, CA 92114,
San Diego (the "Property")
Site Name: Paradise Mesa WT

Agreement: Lease Agreement, dated June 1, 2009 (the "Lease") between The City of
San Diego ("City") and T-Mobile West Corporation, ("Lessee").

Dear Ms. Charles,

As part of the continuous effort to keep its network up to date, T-Mobile
would like to perform the following modifications (changes) as described in the attached
plans, to the site referenced above:

Example:

Antennas: Sector "A": Relocate four (4) six foot antennas from the water tank to the screened enclosure located on top of the equipment shelter; Sector "B": Replace the four (4) existing four foot antennas located on the water tank with six foot antennas. In order to accommodate the larger antennas, the screen boxes will be increased from six feet in length to eight feet.

Equipment: Remove existing Propane Generator. Install one 30KW Diesel Generator in a 12' x 11'4" area. Said area to be enclosed with a ten (10) foot tall CMU block wall..... Said Units to be screened by a four (4) foot tall CMU block wall.

Remove (3) existing TMAs, Install (3) new L1900 radios and associated equipment.



Real Estate
Assets

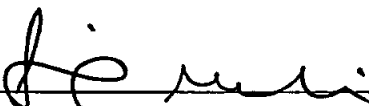
Pursuant to Improvements and Alterations, of the Lease Agreement, "Lessee shall not construct any improvements, structures, or installations on the Premises, or make any alterations to the Premises (with the exception of equipment replacements or repairs) without City's prior written approval." In order to comply with such requirement,

T-Mobile would like to request City's consent and approval to complete the items described above.

Sincerely, Dan Szewczyk, agent for T-Mobile

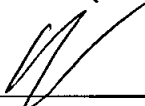
Applicant's Signature: 

City Public Utilities department has provided it's consent and approval to allow T-Mobile to perform the proposed modifications described herein.

9-26-16 
Date Signature

**CITY OF SAN DIEGO, ACKNOWLEDGEMENT AND CONSENT
FOR MODIFICATION OF**

1513 STATION COURT S.D. - PARADISE MESA WT
(Site Location)

By: 

Name: Cybele Thompson
Director, Real Estate Assets

Title: _____

Date: 9/24/16



**Real Estate
Assets**

T-Mobile

SITE NUMBER: SD06326A
SITE NAME: PARADISE MESA WT
ADDRESS: 1513 STATTON CT
SAN DIEGO, CA 92114
COUNTY: SAN DIEGO
PROJECT: L1900

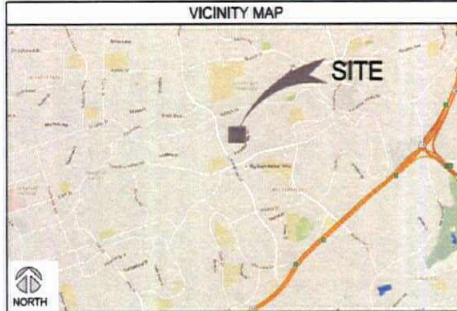
T-Mobile

19500 VISTA A SORRENTO PKWY #20
SAN DIEGO, CA 92121
T-MOBILE.COM



SAC AE DESIGN GROUP, INC.
3015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
WWW.SACIN.COM

PROJECT INFORMATION	
SITE NAME:	PARADISE MESA WT
SITE NUMBER:	SD06326A
SITE ADDRESS:	1513 STATTON CT SAN DIEGO, CA 92114
JURISDICTION:	CITY OF SAN DIEGO
COUNTY:	SAN DIEGO
LATITUDE:	32.69344600° N
LONGITUDE:	117.04618800° W
CONSTRUCTION TYPE:	N/A
A.P.N.:	SD03-321-11-00
ZONING CLASSIFICATION:	RS-17
PROPOSED USE:	UNMANNED TELECOMMUNICATION FACILITY
LANDLORD CONTACT:	CITY OF SAN DIEGO 1200 THIRD AVENUE SAN DIEGO, CA 92101
T-MOBILE PROJECT MANAGER:	JOSEPH ROSE (858) 334-6112 JOSEPH.ROSE41@T-MOBILE.COM
APPLICANT:	SAC WIRELESS ON BEHALF OF T-MOBILE DAIL RICHARD PHONE: (658) 200-6541 EMAIL: dailrichard@sacw.com



SCOPE OF WORK
T-MOBILE PROPOSES TO:
- REMOVE (3) EXISTING T-MAs - INSTALL (3) NEW L1900 RADIOS (RRUS32 B2) (3) DC CONDUCTOR 6AWG, (6) FIBER, (2) DC CONDUCTOR 4AWG, (1) DC CONDUCTOR 2AWG - NO NEW BATTERIES ARE TO BE ADDED AS PART OF THIS PROJECT



LEGAL DESCRIPTION
SEE SHEET T-4

GENERAL NOTES
THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SPECIAL NOTES
1. ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT T-MOBILE CONSTRUCTION INSTALLATION GUIDE.
2. EXISTING CONDITIONS WILL BE VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY.
3. CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 22"x34" SHEET SIZE & ARE NOT REDUCED IN SIZE.
5. STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED. -SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.

DRAWING INDEX	
SHEET	DESCRIPTION
T-1.0	TITLE SHEET
T-2.0	GENERAL NOTES
T-3.0	GENERAL NOTES
T-4.0	ABBREVIATIONS, SIGNAGE, REFERENCED DOCUMENTS, LEGAL DESCRIPTION & LEGEND
A-1.0	OVERALL SITE PLAN
A-2.0	ENLARGED SITE PLAN
A-3.0	EXISTING & PROPOSED ANTENNA PLANS, MOUNTING DETAIL & SCHEDULES
A-4.0	EXISTING EQUIPMENT PLAN, & EXISTING BATTERY CALCULATIONS
A-5.0	EXISTING & PROPOSED NORTH ELEVATIONS
A-6.0	EXISTING & PROPOSED EAST ELEVATIONS
A-7.0	EXISTING & PROPOSED SOUTH ELEVATIONS
A-8.0	EXISTING & PROPOSED WEST ELEVATIONS
A-9.0	EQUIPMENT DETAILS & SPECIFICATIONS
A-10.0	EQUIPMENT CONFIGURATION
G-1.0	SCHEMATIC GROUNDING PLANS, NOTES & DETAILS

CODE COMPLIANCE
2013 CALIFORNIA ENERGY CODE 2013 CALIFORNIA BUILDING CODE 2013 CALIFORNIA ELECTRICAL CODE 2013 CALIFORNIA FIRE CODE 2013 CALIFORNIA MECHANICAL CODE 2013 CALIFORNIA PLUMBING CODE

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.	
T-MOBILE PROJECT MANAGER:	DATE:
T-MOBILE CONSTRUCTION MANAGER:	DATE:
T-MOBILE RF ENGINEER:	DATE:
SITE ACQUISITION:	DATE:
PROPERTY OWNER:	DATE:
ZONING:	DATE:

REVISIONS				
REV	DATE	DESCRIPTION	BY	APP'D
0	08/24/16	90% CD's	JL	
1	08/14/16	100% CD's	CA	

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

PARADISE MESA WT	
SD06326A	1513 STATTON CT SAN DIEGO, CA 92114

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1.0

PROJECT TEAM	
ARCHITECT: SAC WIRELESS NESTOR POPOWYCH, AIA 5015 SHOREHAM PLACE, STE 150 SAN DIEGO, CA 92122 CONTACT: DENNIS YOSHII PHONE: (619) 736-3766 X105 EMAIL: dennis.yoshii@sacw.com	RF ENGINEER: T-MOBILE USA MUSTAFA AJMAL 10509 VISTA SORRENTO PKWY STE 206 SAN DIEGO, CA 92121 PHONE: - EMAIL: -
ENGINEER: SAC WIRELESS TAHAZY RAMIREZ, P.E. 5015 SHOREHAM PLACE, STE 150 SAN DIEGO, CA 92122 PHONE: (619) 736-3766 X114 EMAIL: tahazy.ramirez@sacw.com	CONSTRUCTION MANAGER: T-MOBILE USA KURT BABCOCK 10509 VISTA SORRENTO PKWY STE 206 SAN DIEGO, CA 92121 PHONE: (658) 334-6139 EMAIL: kurt.babcock@T-Mobile.com
ZONING/PLANNING CONSULTANT: SAC WIRELESS DAIL RICHARD 5015 SHOREHAM PLACE, STE 150 SAN DIEGO, CA 92122 PHONE: (658) 200-6541 EMAIL: dailrichard@sacw.com	

DRIVING DIRECTIONS	
DIRECTIONS FROM: 10509 VISTA SORRENTO PKWY, SAN DIEGO CA 92121	
1. HEAD SOUTHEAST ON VISTA SORRENTO PKWY	6. TURN RIGHT ONTO S 47TH ST/N PALM AVENUE
2. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO SORRENTO VALLEY RD	7. TURN LEFT ONTO DIVISION STREET
3. SLIGHT RIGHT ONTO THE INTERSTATE 805 S RAMP	8. TURN LEFT ONTO PLAZA BOULEVARD
4. MERGE ONTO I-805 S	9. TURN RIGHT ONTO S WOODMANN STREET
5. TAKE EXIT 11A FOR PALM AVENUE	10. TURN LEFT ONTO WINDWARD STREET
	11. TURN RIGHT ONTO STATTON COURT
	12. DESTINATION WILL BE ON THE LEFT

811

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

Know what's below.
Call before you dig.

GENERAL NOTES:

- THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER CBC SECTION 11058.3.4 EXCEPTION #1. THIS FACILITY IS NON-CURABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND CONSTRUCTION SPECIFICATIONS 8011108-1 REV. H. THE SPECIFICATION IS THE BUILDING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PREVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND COMFORMING THAT THE WORK MAY BE ACCOMPLISH AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. OWNER PROVIDED MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE:
 - TRANSFORMER
 - RF FILTER
 - RF RACKS
 - AUXILIARY EQUIPMENT IN MFTS RACK
 - PUMP ASSEMBLY
 - HEAT EXCHANGE
 - HOSE AND HOSE MANIFOLD (ANY COPPER OR STEEL SECTION PROVIDED BY CONTRACTOR)
 - UHF ANTENNA AND MOUNTING BRACKET, GPS ANTENNA AND KU ANTENNAS
 - UHF COAX AND HANGERS
 - 400-208 & 208-400 ELECTRICAL TRANSFORMER (IE: E-2 FOR SPECIALIZED TRANSFORMER PROVIDED BY CONTRACTOR)
 - AUTOMATIC TRANSFER SWITCH AND GENERATOR
 - EQUIPMENT SHELTER (SHELTER FURNISH IN FACTORY WITH VAC EQUIPMENT AND ELECTRICAL DISTRIBUTION PANEL)
 - INTEGRATED LOAD CENTER
- DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY DISCREPANCIES REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING 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 THE WORK. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENT.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE 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.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SUPERINTENDENT OF THE BUILDING & GROUNDS & SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
- INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACE, EQUIPMENT, IMPROVEMENTS, PIPING, ETC. AND IMMEDIATELY REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS NOTED OTHERWISE). LOCATIONS OF REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT.
- REPAIR ALL EXISTING WALL SURFACE DAMAGE DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACE.
- SEAL PENETRATION THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
- KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PEST, SPOT, DUST, OR SHADINGS OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
- MINIMUM BEND RADII OF ANTENNA CABLE SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
- DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
- THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLE 19 AND 24, CALIFORNIA CODE REGULATIONS, SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISH WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK.

SITE WORK NOTES:

- DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS.
- SIZE, LOCATION, AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN

PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORK SCHEDULES AND METHODS OF REMOVAL OR ADJUSTING EXISTING UTILITIES.

CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTAL AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPER, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.

ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANIES, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

FIRE DEPARTMENT NOTES:

- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.
- DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION, (CFC 807.1.2)
- CONTRACTOR SHALL VERIFY IN FIELD THE EXISTENCE OR INSTALLATION OF A FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2A-10BC, WITH A CHARGE STATUS ACCEPTABLE TO THE LOCAL FIRE AUTHORITY HAVING JURISDICTION.

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 ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION. 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 CONFORM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC., ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THIN INSULATION.
- OUTLET BOXES SHALL BE PRESTRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY T-MOBILE AND CEC ARTICLE 250.
- 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 WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE RE-ADJACENT 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 MAINTAIN CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND DEVICES FOR ALL OUTLETS AS INDICATED.
- DITCHING AND BACKFILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND EFC.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS' CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING REQUIRED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE "CONSTRUCTION MANAGER" UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS

- REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PIVOT MEETING OR EXCEEDING NEMA TC2-1995. CONTRACTOR SHALL PLUS 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" 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 CEC.
- CONDUCTORS: CONTRACTOR SHALL USE 80% 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 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, CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELCO".

GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2) 2 AWG BARE THIN SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EG SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION "1", "2", "3", "4", "5" WITH 1" HIGH LETTERS.
- ALL HARDWARE 1/4" STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" BUCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM PLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- HUT & 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), CALIFORNIA BUILDING STANDARDS AND MANUFACTURER.

STRUCTURAL SPECIFICATIONS:

- GENERAL
 - GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
 - SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN ITS COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.
 - SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- STEEL
 - ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
 - ALL BOLTS SHALL CONFORM TO ASTM A307 UNLESS OTHERWISE NOTED ON PLANS.
 - STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
 - STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
 - ALL WELDING SHOULD BE DONE IN CERTIFIED WELDERS SHOP UNLESS NOTED OTHERWISE.
 - ALL STRUCTURAL STEEL SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
 - ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
- CONCRETE
 - STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS.

LOCATION	STRENGTH	WT.	SLUMP	ADDMITURE
SLAB & FOOTING	2500 PSI	150 PCF	4"	NONE
 - REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
 - #4 & SMALLER BARS: GRADE 40
 - #5 & LARGER BARS: GRADE 60
 - CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
 - PERCASSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
 - AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:
 - FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
 - PERCASSON FOOTING: 1" GRAVEL
 - WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.
 - MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.
 - SPLICING OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 40 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.

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DATE
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND THAT I AM A U.S. REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF CALIFORNIA.

PARADISE MESA WT
1513 STATTON CT
SAN DIEGO, CA 92114

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

T-2.0

- D. TIMBER
1. ALL LUMBER SHALL BE NO. 2 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE
 2. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A PANEL SPAN RATING 32/16, EDGE NAIL WITH 8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. NAIL WITH 16d AT 12" O.C. AT INTERMEDIATE SUPPORTS.
 3. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 19% AT THE TIME OF INSTALLATION.
 4. MINIMUM NAILING SHALL COMPLY WITH TABLE 2304.9.1 OF CALIFORNIA BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
 5. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
 6. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 1/16" DIAMETER OF BOLTS.
 7. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE SIMPSON STRONG-TIE CONNECTORS. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
 8. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE VOLCANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.

PAINTING NOTES & SPECIFICATIONS:

- A. GENERAL
1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.
 2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
 3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
 4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.
 5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE T-MOBILE CONSTRUCTION MANAGER.
 6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
 7. FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
 8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
 9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
 10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE T-MOBILE CONSTRUCTION MANAGER. REPAIR AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.
- B. COATING SYSTEM SPECIFICATIONS
1. DTM ACRYLIC COATING (SERIES B86) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B68A50).
 2. 100% ACRYLIC LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER.
- C. ANTEENAS
- PRIMER - KEM AQUA E61-HV525
TOPCOAT - COROTHANE II B65W200/B60V22
- 8TS CABINET
- PRIMER - KEM AQUA E61-HV525
TOPCOAT - COROTHANE II B65W200/B60V22
- COAXIAL JUMPER CABLES
- PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61HV25 REDUCED 25%
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- RAW STEEL
- PRIMER - KEM BOND HS B50W24, DMT ACRYLIC PRIMER
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- GALVANIZED METAL
- ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/PRIMISH)
- STAINLESS STEEL
- PRIMER - DTM WASH PRIMER, B71Y1
TOPCOATS - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- PRE-PRIMED STEEL
- TOUCH UP ANY RUST OR UNPRIMED STEEL WITH KEM BOND HS, B50W24
- ALUMINUM & COPPER
- PRIMER - DTM WASH PRIMER, B71Y1
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- CONCRETE MASONRY
- PRIMER - PRO MAR EXTERIOR BLOCK FILLER
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
- CONCRETE STUCCO (EXISTING)
- 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
- STUCCO
- PRIMER - PRO MAR MASONRY CONDITIONED B-46 W21000
TOPCOAT - SUPERPAINT A-80 SERIES A-88 SATIN A-84 GLOSS
- WOOD
- PRIMER - A-100 EXTERIOR ALKYD W0090 PRIMER Y-24V20
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES

FIELD CUTS/DAMAGE (PRIOR TO PRIME & PAINT)
FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0336 ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH "SMAUFLEX" SEALANT

STEEL TOUCH UP
STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT.

CONCRETE MASONRY NOTES:

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, (F7M) 1,500 PSI, MEDIUM WEIGHT (115 PCF).
2. MORTAR SHALL BE TYPE "S" (MINIMUM 1,800 PSI AT 2 DAYS).
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.
5. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
6. ALL MASONRY CONSTRUCTION TO BE PERFORMED AS PER TMS 402-1/ACI 530-1/ASCE 5-1, CBC 2013 CHAPTER 21 AND LOCAL BUILDING ORDINANCES.
7. REINFORCING BARS- SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.
8. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT EXCEPT AS NOTED IN THE DRAWINGS AND SPECIFICATIONS.
9. BRICKS SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR BETTER.

STRUCTURAL CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-10.
2. ACI 318-11 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
3. ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH 4,000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
5. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CASTS AGAINST EARTH..... 3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:

#6 AND LARGER..... 2 IN.

#5 AND SMALLER & WWF..... 1-1/2 IN.

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

SLAB AND WALL..... 3/4 IN.

BEAMS AND COLUMNS..... 1-1/2 IN.

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

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0	08/24/16	90% CD's	JL
1	08/14/16	100% CD's	CA

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DATE

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PREPARED BY ME AND UNDER MY DIRECT
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ARCHITECT UNDER THE LAWS OF THE STATE OF
CALIFORNIA.

PARADISE MESA WT
S008326A
1513 STATTON CT
SAN DIEGO, CA 92114

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

T-3.0

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

LEGEND		SCALE	4
N.T.S.			
PARCEL 1:			
ALL OF THAT PORTION OF THE SOUTHWEST QUARTER OF QUARTER SECTION 33 OF THE RANCHO DE LA NACION, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF NO. 166 BY MORELL FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAID SAN DIEGO COUNTY			
PARCEL 2:			
AN EASEMENT FOR WATER PIPE, LINES AND PURPOSES INCIDENTAL THERETO OVER, UNDER, ALONG AND ACROSS ALL THAT PORTION OF THE SOUTH 25.00 FEET OF QUARTER SECTION 53 AND QUARTER SECTION 76 OF SAID RANCHO DE LA NACION, LYING WESTERLY OF THE WESTERLY LINE OF PARCEL 1 ABOVE AND EASTERLY OF THE 100.00 FOOT OTAY PIPE LINE RIGHT OF WAY, AS DESCRIBED IN DEED, TO THE CITY OF SAN DIEGO RECORDED JANUARY 11, 1913 IN BOOK 398, PAGE 54 OF DEEDS.			
LEGAL DESCRIPTION		SCALE	4
N.T.S.			
- CONSTRUCTION DRAWINGS: SD06326A_OTHER_LTE_ZOK APPROVED DRAWINGS BY CITY: MITCHELL J ARCH_7/23/2012 - SCOPE OF WORK: RFDS_SD06326A_1_1_(JL1900)_Signed_052416 - SITE WALK: N/A - SITE SURVEY: N/A - BATTERY INFORMATION: SD06326A_Other_SD06326A Site Survey Form_BDR			
REFERENCED DOCUMENTS		SCALE	3
N.T.S.			

NOTICE



Radio frequency fields beyond this point may exceed the FCC general public exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307 (b)

CAUTION



Beyond this point, Radio frequency fields at this site may exceed FCC rules for human exposure.

For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307 (b)

WARNING



Beyond this point, Radio frequency fields at this site exceed the FCC rules for human exposure.

Failure to obey all posted signs and site guidelines for working in radio frequency environments could result in serious injury.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307 (b)

ALERTING SIGNS

DANGER



HAZARDOUS MATERIAL STORAGE AREA

WARNING

THIS FACILITY CONTAINS CORROSIVE LIQUID TOXIC LIQUID CLASS 1 WATER REACTIVE LIQUID

IN CASE OF EMERGENCY CALL 1-866-400-6040

SITE NUMBER:SD06326A

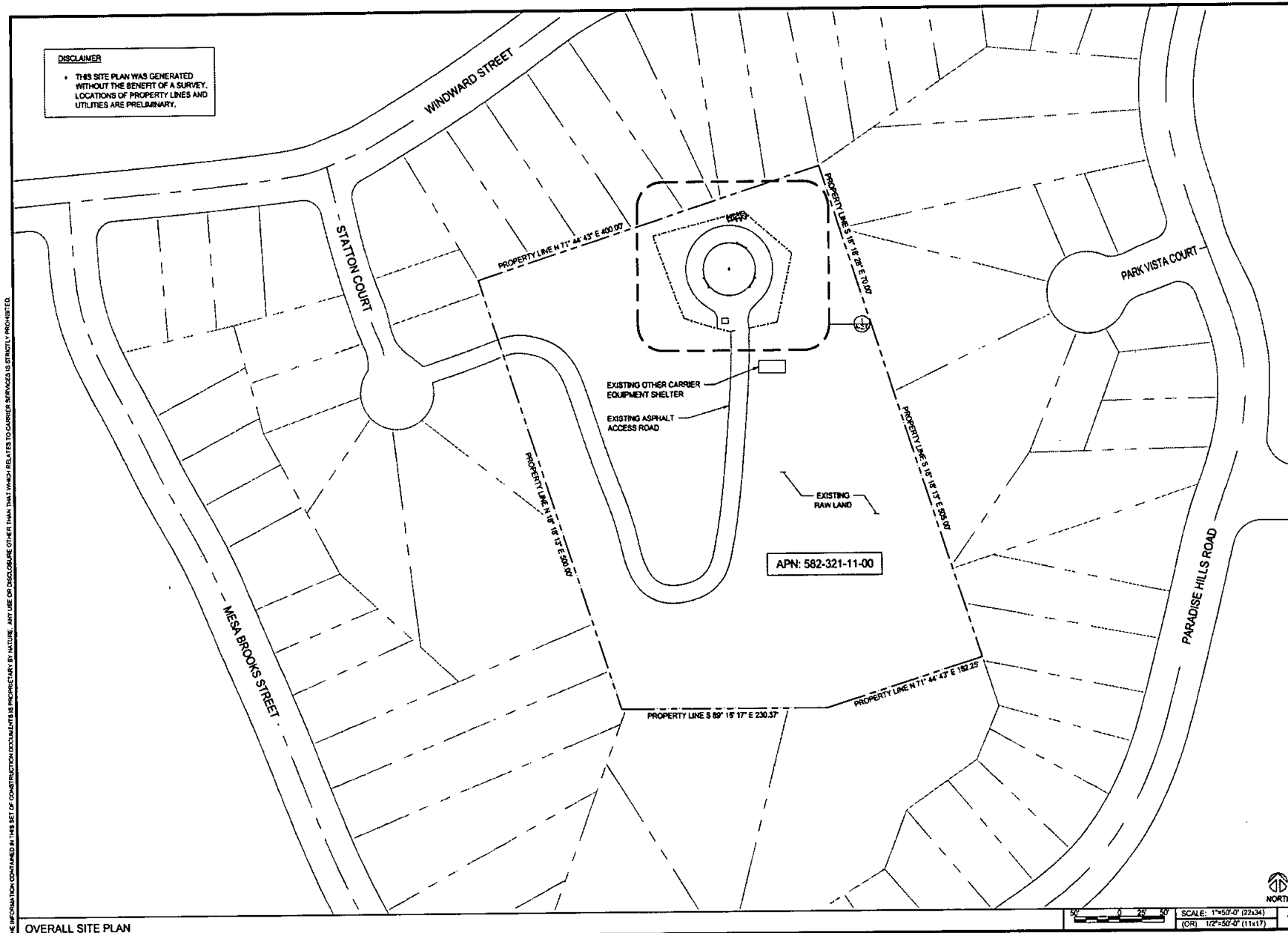
SITE NAME: PARADISE MESA WT



INFORMATION SIGN

ABBREVIATION	DEFINITION		
A.B.	ANCHOR BOLT	GRND.	GROUND
ABV.	ABOVE	HDR.	HEADER
AC	AIR CONDITIONING	HGT.	HEIGHT
ACU	AIR CONDITIONING UNIT	ICGB.	ISOLATED COPPER GROUND BUS
ACCA	ANTENNA CABLE COVER ASSY.	IGR	INTERIOR GROUND RING
ADOL	ADDITIONAL	IN. (")	INCHES
A.F.F.	ABOVE FINISHED FLOOR	INT.	INTERIOR
A.F.G.	ABOVE FINISHED GRADE	INT. (#)	POUNDS
A.G.L.	ABOVE GRADE LEVEL	L.B.	LAG BOLTS
ALUM.	ALUMINUM	L.F.	LINEAR FEET (FOOT)
ALT.	ALTERNATE	L.	LONGITUDINAL
ANT.	ANTENNA	MGB.	MASTER GROUND BUS
APPRX.	APPROXIMATE(LY)	MAS.	MASONRY
APX.	APEX	MAX.	MAXIMUM
ARCH.	ARCHITECT(R)URAL	M.B.	MACHINE BOLT
ASSY.	ASSEMBLY	MECH.	MECHANICAL
AWG.	AMERICAN WIRE GAUGE	MFR.	MANUFACTURER
BCN	BEACON	MIN.	MINIMUM
BD.	BOLLARD	MISC.	MISCELLANEOUS
BDK.	BRASS DISK	MTL.	METAL
BLDG.	BUILDING	MW.	MICROWAVE
BLK.	BLOCK	(N)	NEW
BLKG.	BLOCKING	NO. (#)	NUMBER
BM	BEAM / BENCH MARK	N.T.S.	NOT TO SCALE
B.N.	BOUNDARY MARKING	O.C.	ON CENTER
BTCH.	BARE TINNED COPPER WIRE	OH.	OVERHEAD
B.O.F.	BOTTOM OF FOOTING	CHP	OVERHEAD POWER LINE OPENING
BTM.	BOTTOM	OPNG.	
BRC.	BRACE	PC	PRECAST CONCRETE
BTS	BASE TRANSCIVER STATION	P.V.	PLYWOOD
BL.W.F.	BARBED WIRE FENCE	P.P.	POWER PROTECTION CABINET
BUJ.	BACK-UP CABINET	P.S.F.	POUNDS PER SQUARE FOOT
CAB.	CABINET	P.S.L	POUNDS PER SQUARE INCH
CANT.	CANTILEVERED	P.T.	PRESSURE TREATED
CL.P.	CAST IN PLACE	PWBL	POWER (CABINET)
C.L.F.	CHAIN LINK FENCE	QTY.	QUANTITY
CLG.	CEILING	R.	RADIUS
CLR.	CLEAR	RAD. CTRL.	RADIATION CENTER
COL.	COLUMN	RBS	RADIO BASE STATION
CONC.	CONCRETE	REF.	REFERENCE
CONN.	CONNECTION(OR)	REINF.	REINFORCEMENT(ING)
CONSTR.	CONSTRUCTION	REQD.	REQUIRED
CONT.	CONTINUOUS	RF	RADIO FREQUENCY
CPD	CONCRETE PAD	RGS	RIGID GALVANIZED STEEL
C.T.	CABLE TRAY	RRU	REMOTE RADIO UNIT
d	PENNY (NAILS)	RRH	REMOTE RADIO HEAD
dbl	DOUBLE	SCH.	SCHEDULE
DEF.	DEFINITION	SHT.	SHEET
DEPT.	DEPARTMENT	SM.	SMILAR
D.F.	DOUGLAS FIR	SPEC.	SPECIFICATION(S)
DIA. (Ø)	DIAMETER	SP	STEEL PLATE
DIAG.	DIAGONAL	SQ.	SQUARE
DM.	DIMENSION	S.S.	STAINLESS STEEL
DR.	DOOR	STD.	STANDARD
DWG.	DRAWING(S)	STL.	STEEL
DWL.	DOWEL(S)	STRUC.	STRUCTURAL
EA.	EACH	T.B.D.	TO BE DETERMINED
EBX.	ELECTRICAL BOX	T.B.R.	TO BE RESOLVED
EG	EQUIPMENT GROUND	TEMP.	TEMPORARY
EGR	EQUIPMENT GROUND RING	THK.	THICKNESS
EL.	ELEVATION	TMA	TOWER MOUNTED AMPLIFIER
ELEC.	ELECTRICAL	T.N.	TOE NAIL
ELEV.	ELEVATOR	T.O.A.	TOP OF ANTENNA
EM	ELECTRICAL METER	T.O.C.	TOP OF CURB
E.M.T.	ELECTRICAL METALLIC TUBING	T.O.F.	TOP OF FOUNDATION
E.O.P.	EDGE OF PAVEMENT	T.O.P.	TOP OF PLATE (PARAPET)
EQ. (=)	EQUAL	T.O.S.	TOP OF STEEL
EVLT.	ELECTRICAL VAULT	T.O.W.	TOP OF WALL
ENG.	EXPANSION	TWR.	TOWER
EXT.	EXISTING	TYP.	TYPICAL
FAB.	FABRICATION(OR)	U.G.	UNDER GROUND
F.N.	FINISH FLOOR	U.L.	UTILITY POLE
F.O.	FINISH GRADE	U.N.O.	UNLESS NOTED OTHERWISE
FIN.	FINISHED	V.I.N.	VERIFY IN FIELD
FLR.	FLOOR	W.	WIDE(WIDTH)
FDN.	FOUNDATION	WD.	WOOD
F.C.	FACE OF CONCRETE	W.P.	WEATHERPROOF
F.M.	FACE OF MASONRY	WT.	WEIGHT
F.S.	FACE OF STUD		
F.W.	FACE OF WALL		
F.S.	FINISHED SURFACE		
FT. (')	FOOT(FEET)		
FTG.	FOOTING		
GA.	GAUGE		
GI.	GALVANIZED(D)		
G.F.I.	GROUND FAULT INTERRUPTER		
GEN.	GENERATOR		
GLB.	GLOBAL POSITIONING SYSTEM		
GRC.	GROWTH RADIO CABINET		

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PARADISE MESA WT SD06326A 1513 STATION CT SAN DIEGO, CA 92114			
SHEET TITLE			
ABBREVIATIONS, SIGNAGE, REFERENCED DOCUMENTS, LEGAL DESCRIPTION & LEGEND			
SHEET NUMBER			
T-4.0			



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I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND THAT I AM ONLY A REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF CALIFORNIA.

PARADISE MESA WT
SD063326A
1513 STATION CT.
SAN DIEGO, CA 92114

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

A-1.0

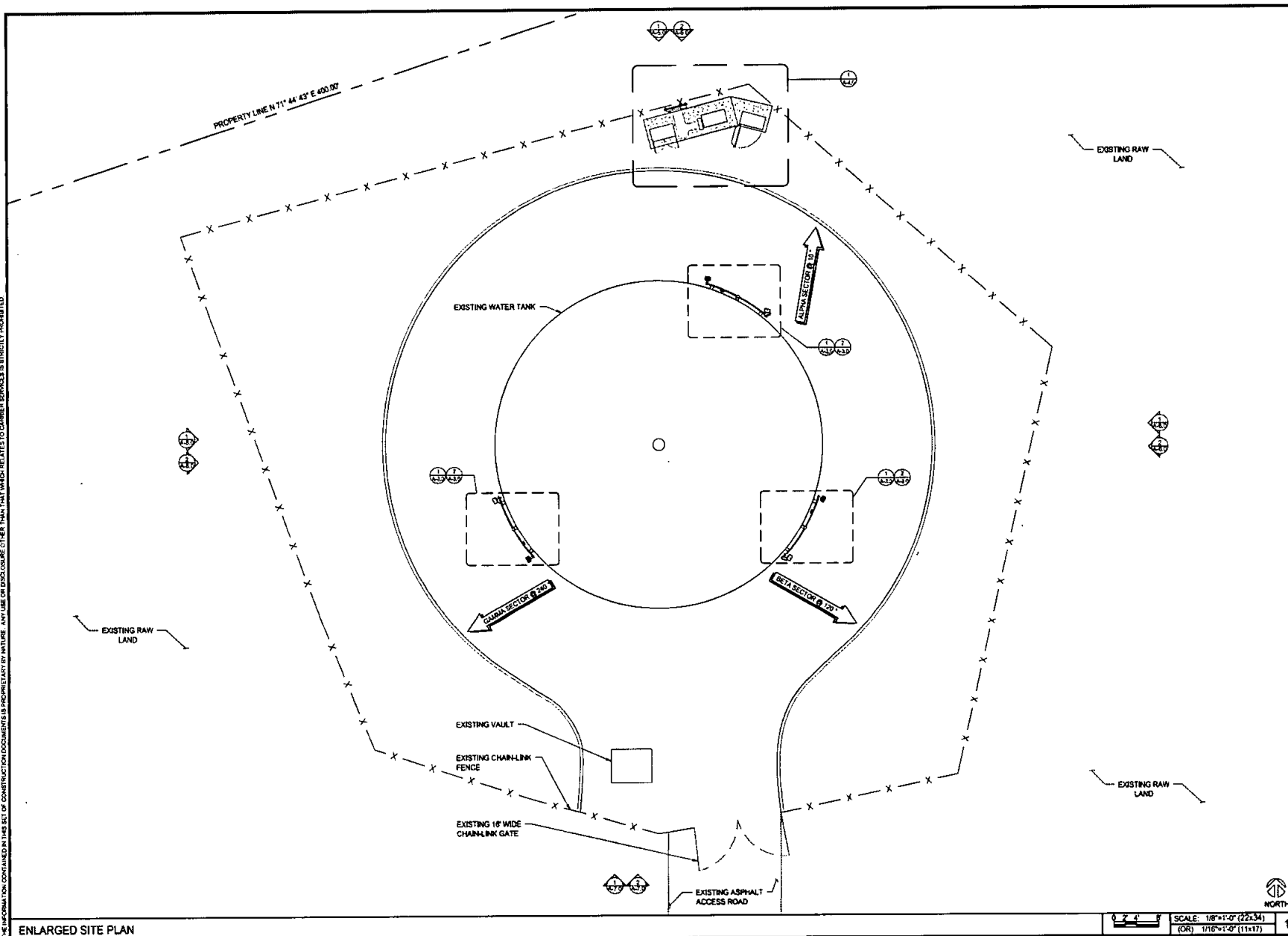
OVERALL SITE PLAN

SCALE: 1"=50'-0" (22.834)
(OR) 1/2"=50'-0" (11.117)



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ENLARGED SITE PLAN

T-Mobile

19500 VISTA GARDEN DRIVE, PHASE 1
SAN DIEGO, CA 92127
1-800-T-MOBILE

SAC

WIRELESS
SAC AE DESIGN GROUP, INC.
5015 BROADWAY PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacae.com

REVISIONS

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1	09/14/18	100% CD's	CA

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S006326A
1513 STATION CT
SAN DIEGO, CA 92114

SHEET TITLE

ENLARGED SITE PLAN

SHEET NUMBER

A-2.0

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PROPOSED ANTENNA SCHEDULE									
SECTOR	AZIMUTH	RAD CENTER	POSITION	EXISTING OR PROPOSED	ANTENNA MODEL	TMA	CABLE	CABLE LENGTH AS PER RFDS	
ALPHA	10 °	47'-8"	1	EXISTING	AIR 21 B2A/B4P		(2) 7/8" COAX	102'-0"	
			2	EXISTING	AIR 32 B4A/B2P	(1) RRUS32 B2	(6) FIBER	16'-0"	
BETA	120 °		1	EXISTING	AIR 21 B2A/B4P		(2) 1-5/8" COAX	223'-0"	
			2	EXISTING	AIR 32 B4A/B2P	(1) RRUS32 B2	(6) FIBER	16'-0"	
GAMMA	240 °		1	EXISTING	AIR 21 B2A/B4P		(2) 1-5/8" COAX	211'-0"	
			2	EXISTING	AIR 32 B4A/B2P	(1) RRUS32 B2	(6) FIBER	16'-0"	

EXISTING ANTENNA SCHEDULE									
SECTOR	AZIMUTH	RAD CENTER	POSITION	EXISTING OR PROPOSED	ANTENNA MODEL	TMA	CABLE	CABLE LENGTH AS PER RFDS	
ALPHA	10 °	47'-8"	1	EXISTING	AIR 21 B2A/B4P	(1) TWIN AWS	(2) 7/8" COAX	102'-0"	
			2	EXISTING	AIR 32 B4A/B2P		(2) FIBER	16'-0"	
BETA	120 °		1	EXISTING	AIR 21 B2A/B4P	(1) TWIN AWS	(2) 1-5/8" COAX	223'-0"	
			2	EXISTING	AIR 32 B4A/B2P		(2) FIBER	16'-0"	
GAMMA	240 °		1	EXISTING	AIR 21 B2A/B4P	(1) TWIN AWS	(2) 1-5/8" COAX	211'-0"	
			2	EXISTING	AIR 32 B4A/B2P		(2) FIBER	16'-0"	

PROPOSED & EXISTING ANTENNA SCHEDULES

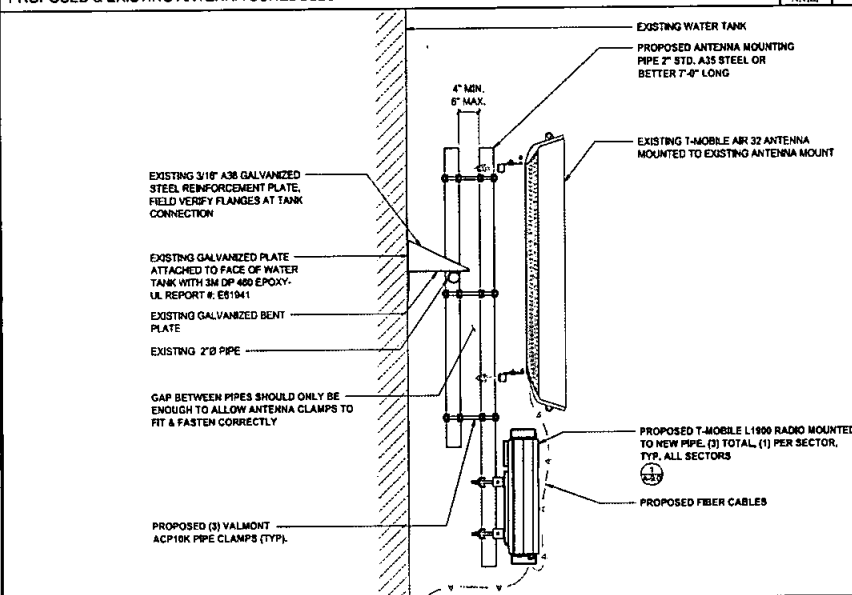
SCALE
N.T.S.

4

PROPOSED ANTENNA PLAN

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

2



ANTENNA MOUNTING DETAIL

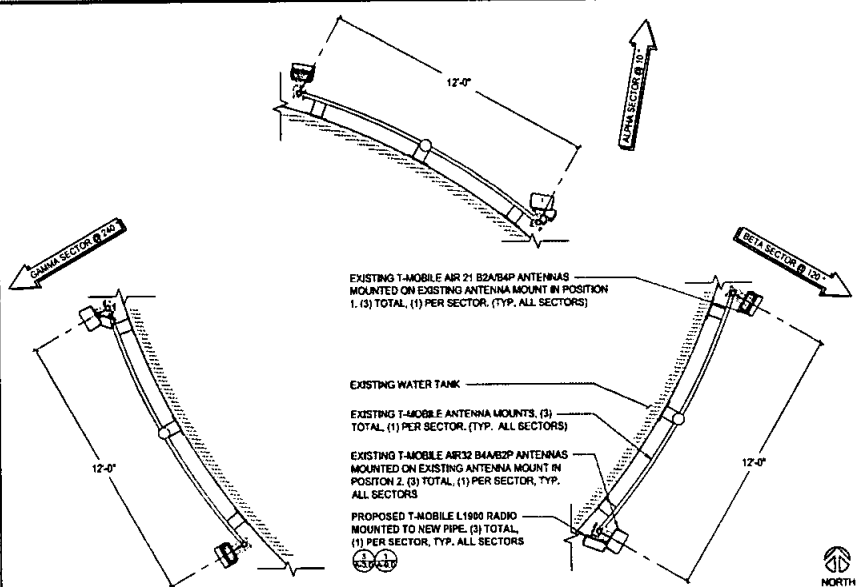
SCALE: 1/4"=1'-0" (22x34)
(OR) 1/2"=1'-0" (11x17)

3

EXISTING ANTENNA PLAN

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

1



T-Mobile

12000 VISTA A DRIVE/STATION PLANT #208
SAN DIEGO, CA 92121
1@TMOBILE.COM

SAC

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SAC AE DESIGN GROUP, INC.
3015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
WWW.SACAE.COM

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PARADISE MESA WT
S042826A
1513 STATION CT
SAN DIEGO, CA 92114

SHEET TITLE
EXISTING & PROPOSED
ANTENNA PLANS,
MOUNTING DETAIL &
SCHEDULES

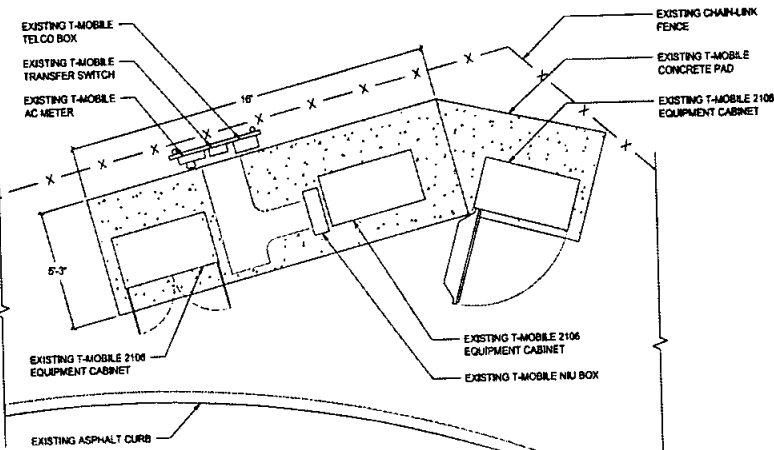
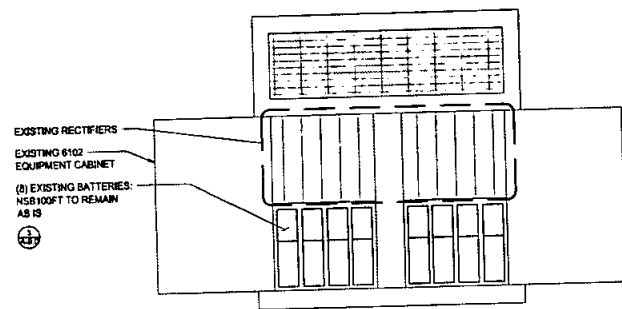
SHEET NUMBER

A-3.0

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EXISTING BATTERY SPECIFICATIONS

CABINET TYPE	RBS 6102
BATTERY MANUFACTURER	NORTHSTAR
MODEL NUMBER	NSB100FT
ELECTROLYTE CONTENT PER BATTERY (IN GALLONS)	2.06
ELECTROLYTE HAZARD CLASSIFICATION PER 13 C.F.C. (8.7% SULFURIC ACID)	CORROSIVE
NUMBER OF BATTERIES INSTALLED	8
MAXIMUM NUMBER OF BATTERIES PER CABINET	8
TOTAL ELECTROLYTES CONTAINED IN CABINET #1	16.5
TOTAL ELECTROLYTES CONTAINED ON SITE	16.5



EXISTING T-MOBILE EQUIPMENT LEASE AREA TO REMAIN AS IS, WITH NO PROPOSED EXPANSION NOR PROPOSED EQUIPMENT

EXISTING BATTERY CALCULATIONS

SCALE N.T.S. 2 EXISTING EQUIPMENT PLAN

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



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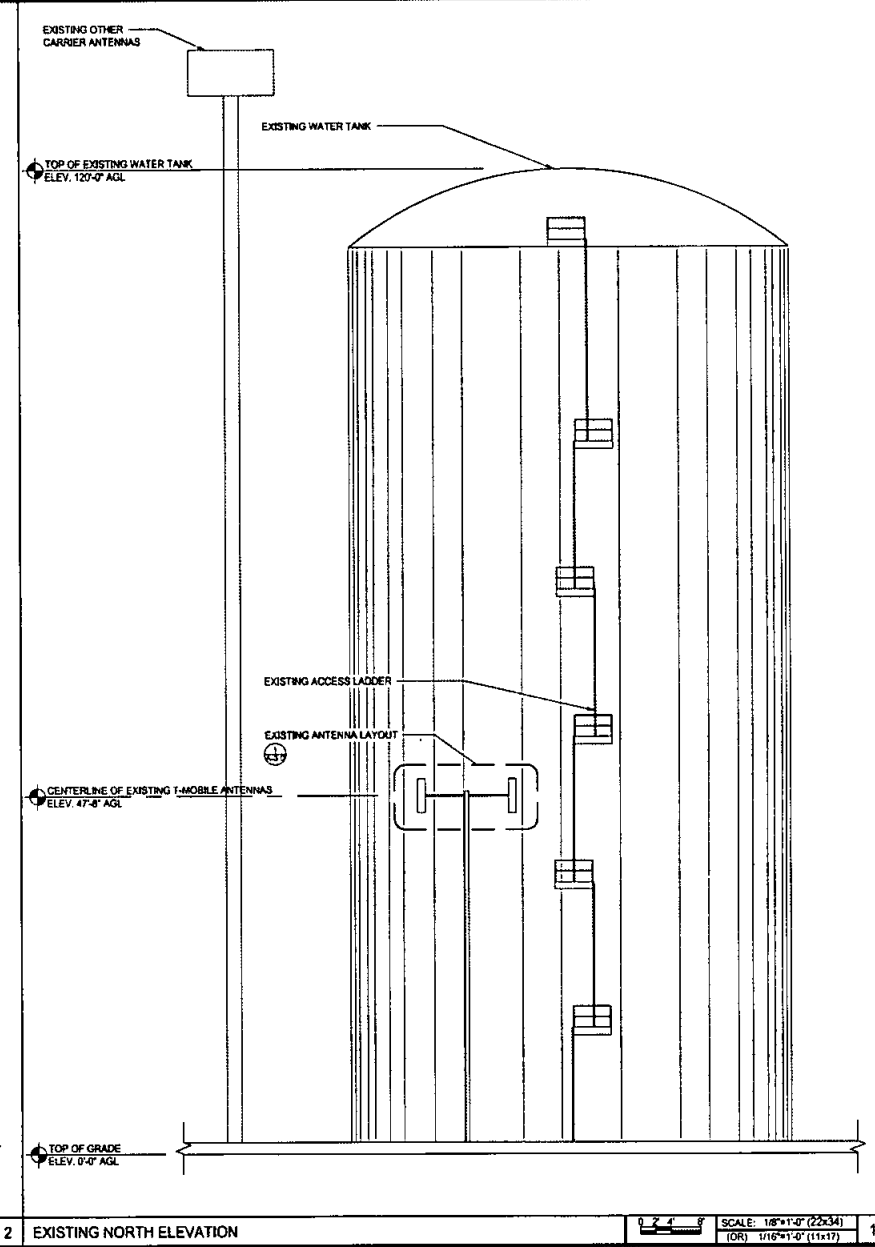
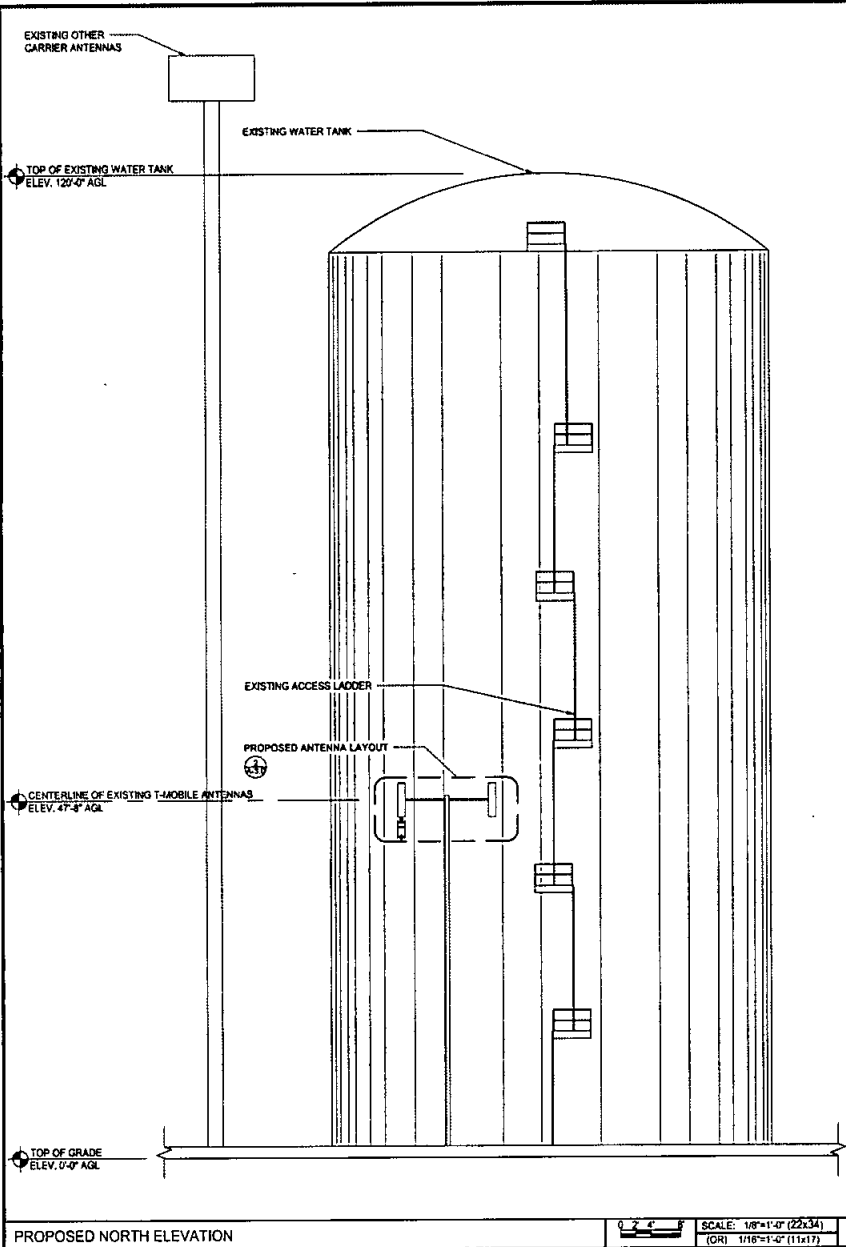
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PARADISE MESA WT
SD08326A
1513 STATION CT.
SAN DIEGO, CA 92114

SHEET TITLE
EXISTING EQUIPMENT
PLAN, & EXISTING
BATTERY CALCULATIONS

SHEET NUMBER
A-4.0

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T-Mobile

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SAN DIEGO, CA 92114

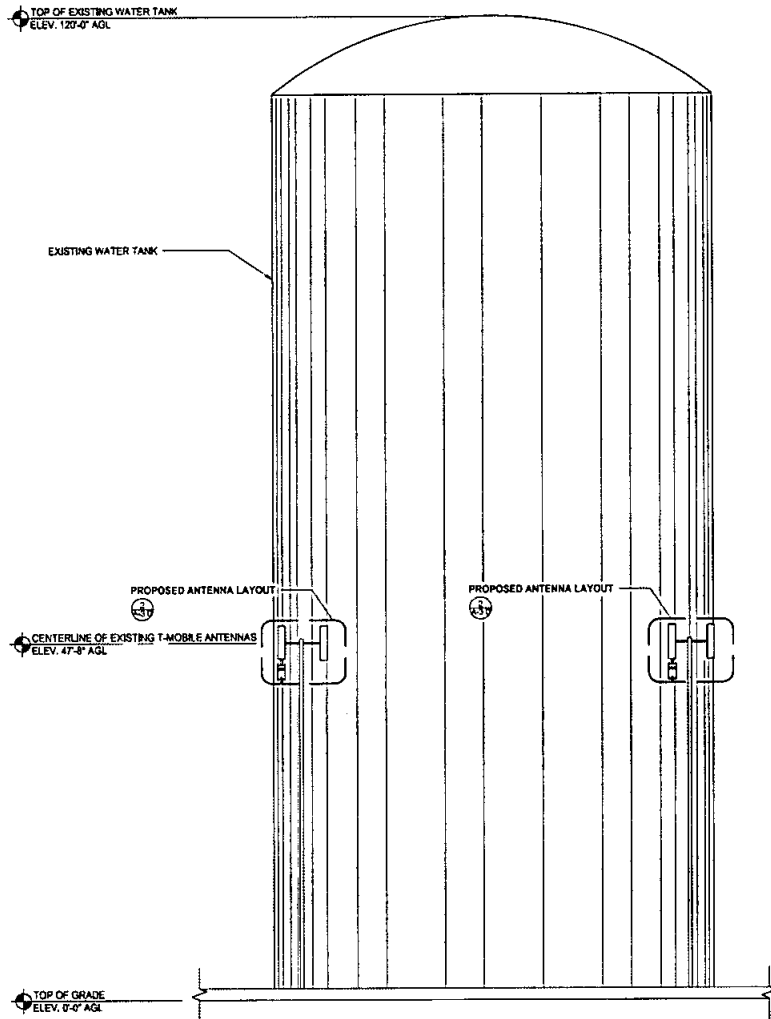
SHEET TITLE

EXISTING & PROPOSED
NORTH ELEVATIONS

SHEET NUMBER

A-5.0

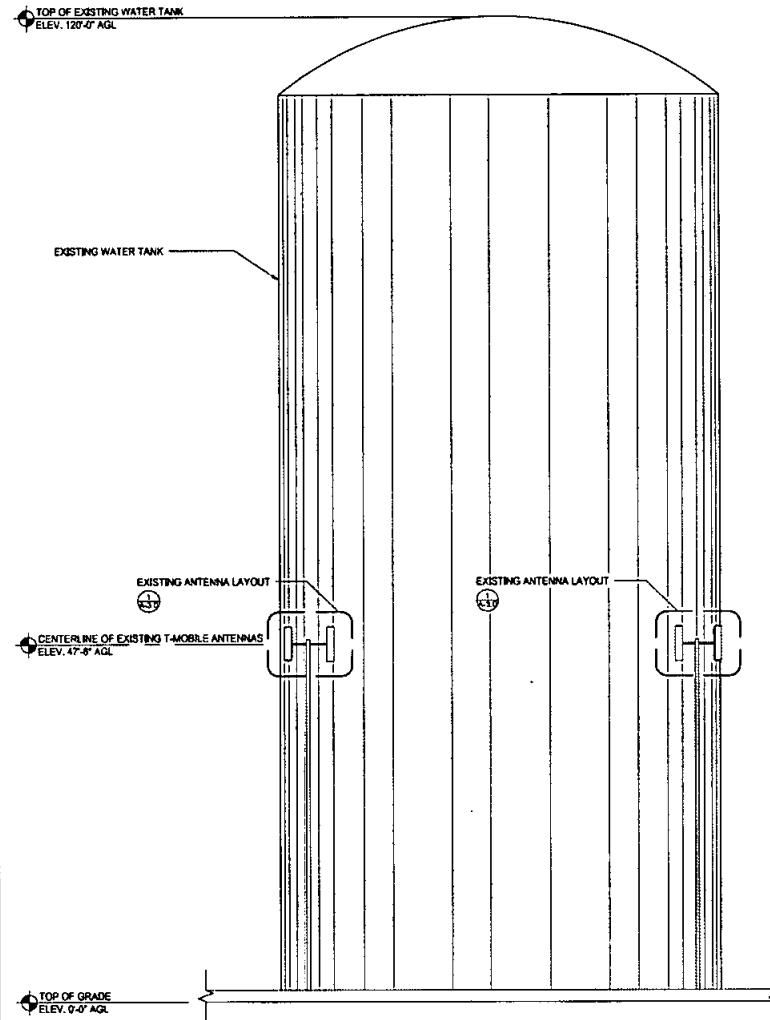
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PROPOSED EAST ELEVATION

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

2



EXISTING EAST ELEVATION

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

1

T-Mobile

12000 VISTA BLVD SUITE 210 POWAY, CA 92121
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SAN DIEGO, CA 92123
WWW.SACAE.COM

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SAN DIEGO, CA 92114

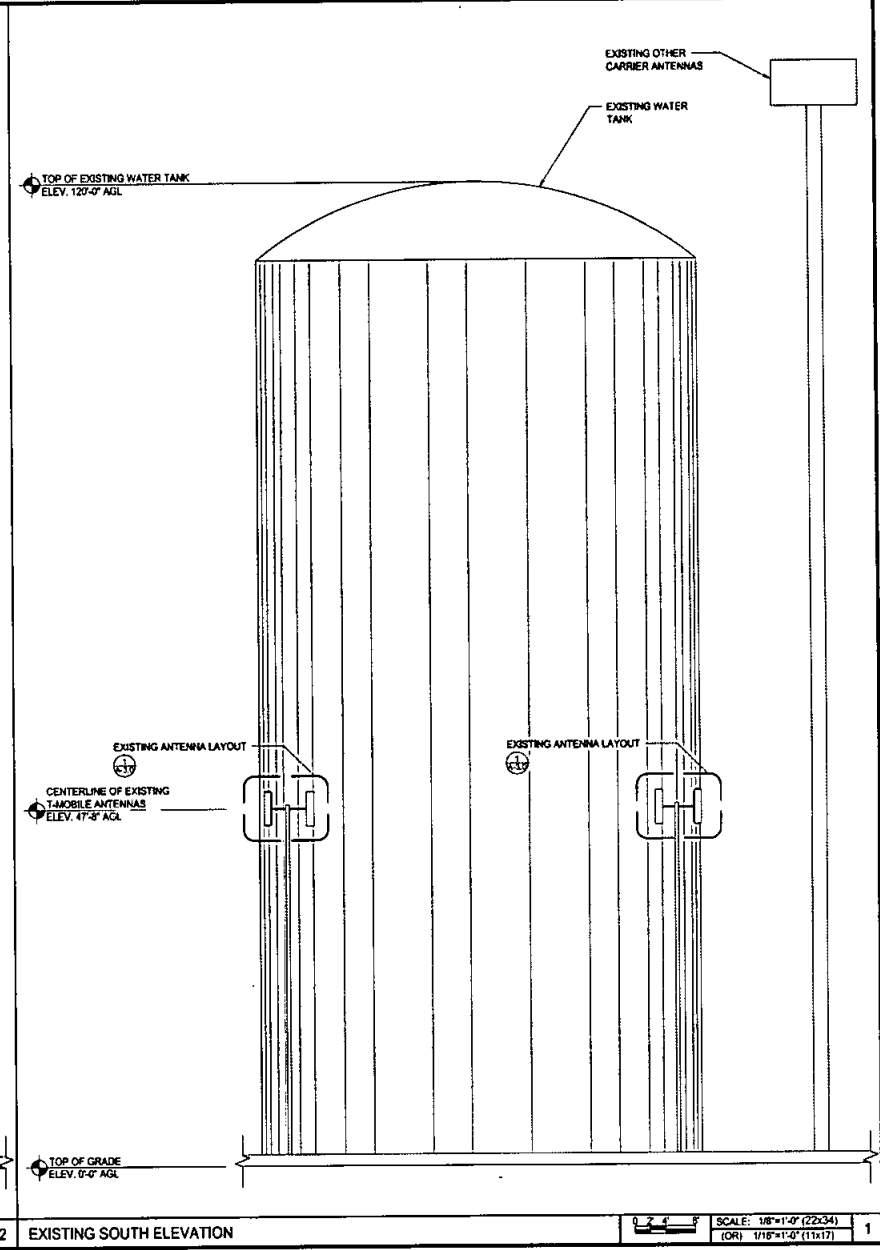
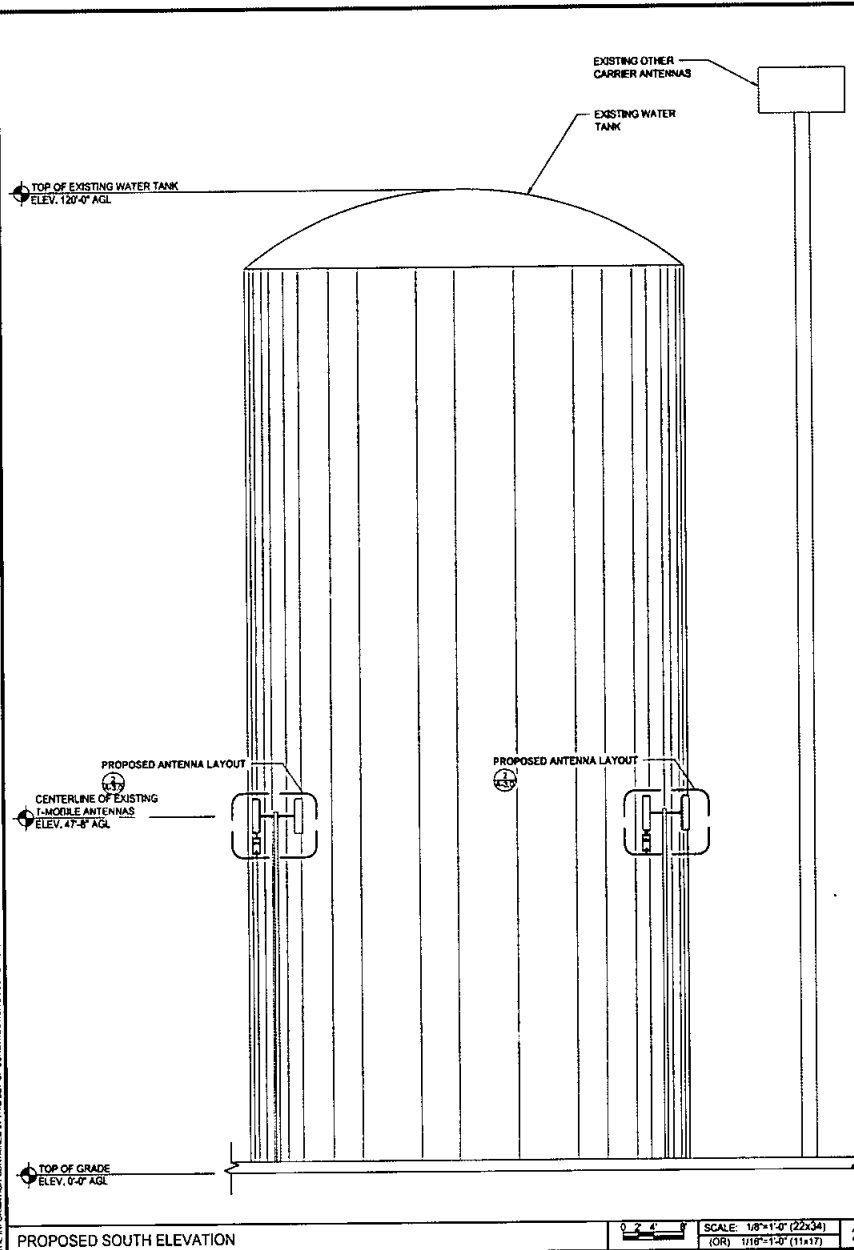
SHEET TITLE

EXISTING & PROPOSED
EAST ELEVATIONS

SHEET NUMBER

A-6.0

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SAN DIEGO, CA 92121
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PARADISE MESA WT
S006320A
1513 STATTON CT.
SAN DIEGO, CA 92114

SHEET TITLE

EXISTING & PROPOSED
SOUTH ELEVATIONS

SHEET NUMBER

A-7.0

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TOP OF EXISTING WATER TANK
ELEV. 120'-4" AGL

EXISTING WATER TANK

EXISTING ACCESS LADDER

CENTERLINE OF EXISTING T-MOBILE ANTENNAS
ELEV. 47'-8" AGL

PROPOSED ANTENNA LAYOUT

TOP OF GRADE
ELEV. 0'-0" AGL

PROPOSED WEST ELEVATION

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

2

TOP OF EXISTING WATER TANK
ELEV. 120'-4" AGL

EXISTING WATER TANK

EXISTING ACCESS LADDER

CENTERLINE OF EXISTING T-MOBILE ANTENNAS
ELEV. 47'-8" AGL

EXISTING ANTENNA LAYOUT

TOP OF GRADE
ELEV. 0'-0" AGL

EXISTING WEST ELEVATION

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

1

T-Mobile

13023 VISTA BARRONTO PARKWAY #200
SAN DIEGO, CA 92121
T.MOBILE.COM

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WIRELESS

SAC AE DESIGN GROUP, INC.
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SAN DIEGO, CA 92122
WWW.SACAE.COM

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SD06326A
1513 STATION CT
SAN DIEGO, CA 92114

SHEET TITLE

EXISTING & PROPOSED
WEST ELEVATIONS

SHEET NUMBER

A-8.0

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NOT USED		9	NOT USED		6	BATTERY		2"=1'-0" (22x34) 1"=1'-0" (11x17)	3
NOT USED		8	NOT USED		5	PIPE CLAMP MOUNTING BRACKET		1-1/2"=1'-0" (22x34) 3/4"=1'-0" (11x17)	2
NOT USED		7	NOT USED		4	RRUS32 B2		1"=1'-0" (22x34) 1/2"=1'-0" (11x17)	1

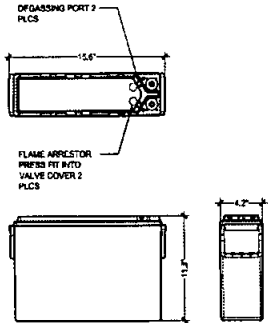
MANUFACTURER: NORTHSTAR
MODEL: NSB 100FT BLUE BATTERY

10 HOUR CAPACITY TO 1.80VPC @ 25°C (77°F)
8 HOUR CAPACITY TO 1.78VPC @ 25°C (77°F)
10 HOUR CAPACITY TO 1.80VPC @ 30°C (86°F)
FLOAT VOLTAGE: 12V
NOMINAL VOLTAGE: 12V
IMPEDANCE (1KHZ): 1.388 S
CONDUCTANCE: 3.500 A
SHORT CIRCUIT CURRENT: NO LIMIT
MAXIMUM CHARGE CURRENT: NO LIMIT

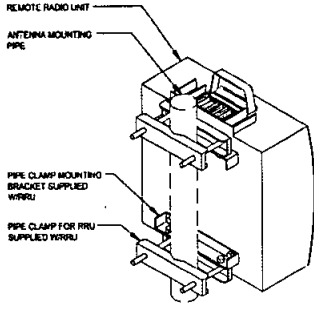
HEIGHT: 74.2in. (348g)
WIDTH: 11.5in.
DEPTH: 4.2 in.
TERMINAL: 13.6 in.
TERMINAL TORQUE: FEMALE M8x1.25
8.0 Nm. (71 in-lbs)

DEGASSING PORT 2 PLCS
15.4"

FLAME ARRESTOR PREPARED BY VALVE COVER 2 PLCS



REMOTE RADIO UNIT
ANTENNA MOUNTING PIPE
PIPE CLAMP MOUNTING BRACKET SUPPLIED W/RRU
PIPE CLAMP FOR RRU SUPPLIED W/RRU



MANUFACTURER: ERICSSON
MODEL: RRUS32
FREQUENCY RANGE: FDD LTE AND GSM
1710-1785 MHz UPLINK
1805-1880 MHz DOWNLINK

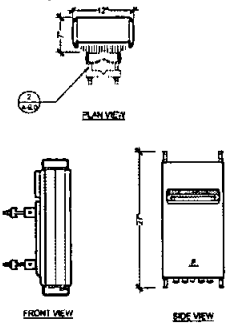
MECHANICAL NET WEIGHT: 50 LBS
DIMENSION (LxWxD): 27.2"x12.1"x3.0"
COLOR: WHITE
MOUNTING: STANDARD MOUNTING BRACKET
HARDWARE MATERIAL: HOT DIP GALVANIZED

12"

FLANGE VIEW

FRONT VIEW

SIDE VIEW



T-Mobile

10520 VISTA A SQUARE (TMO) PHOENIX #100
SAN DIEGO, CA 92121
1.800.955.5555

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SAC AE DESIGN GROUP, INC.
5018 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacae.com

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SAN DIEGO, CA 92114

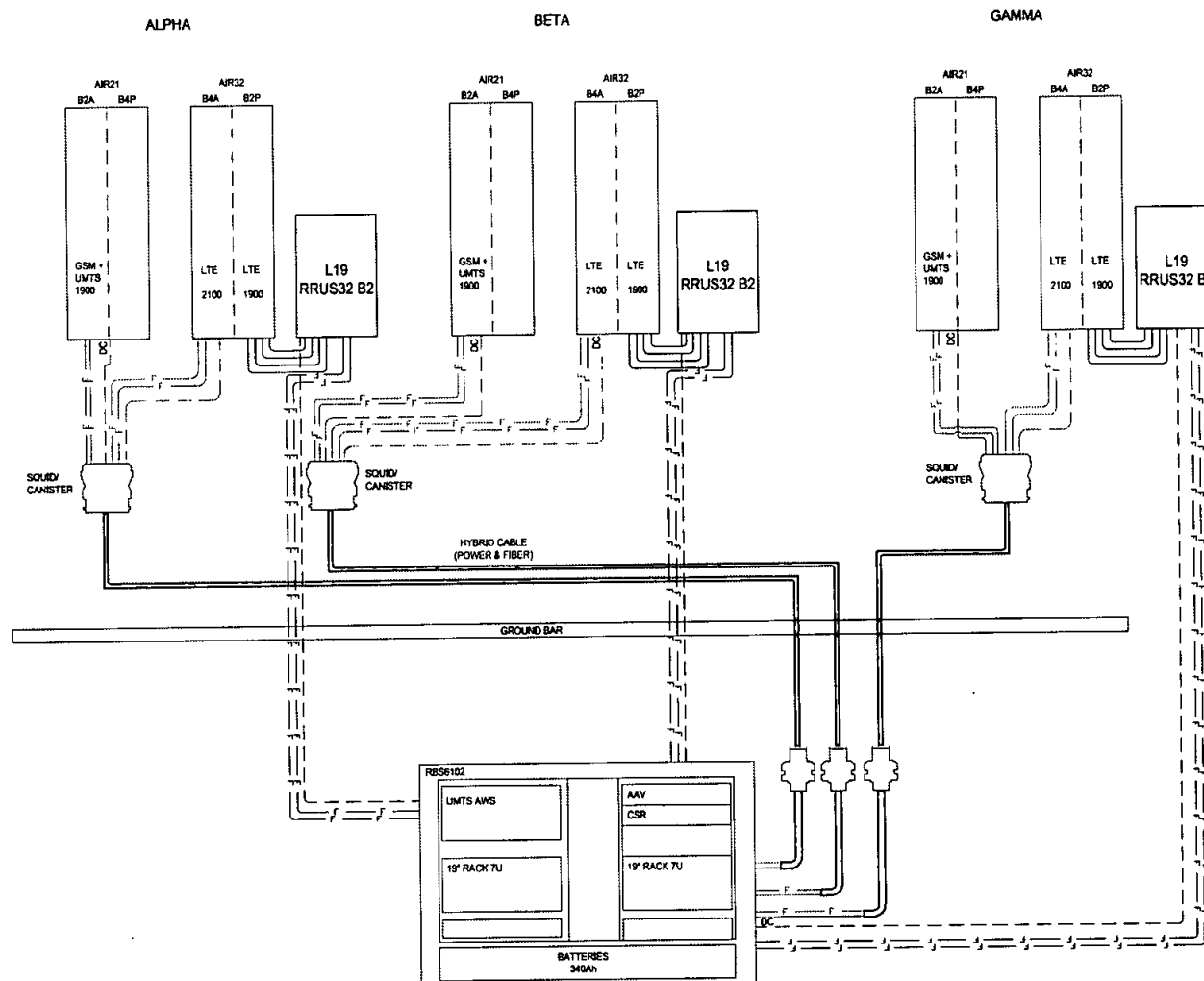
SHEET TITLE

EQUIPMENT DETAILS &
SPECIFICATIONS

SHEET NUMBER

A-9.0

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T-Mobile

10000 VISTA SURFBLISS DRIVE #200
SAN DIEGO, CA 92121
1-800-950-5500



SAC AE DESIGN GROUP, INC.
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SAN DIEGO, CA 92121
WWW.SACAEDESIGN.COM

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PARADISE MESA WT
SD08326A
1513 STATTON CT
SAN DIEGO, CA 92114

SHEET TITLE

EQUIPMENT
CONFIGURATION

SHEET NUMBER

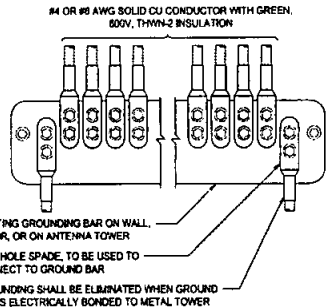
A-10.0

EQUIPMENT CONFIGURATION

SCALE
N.T.S.

1

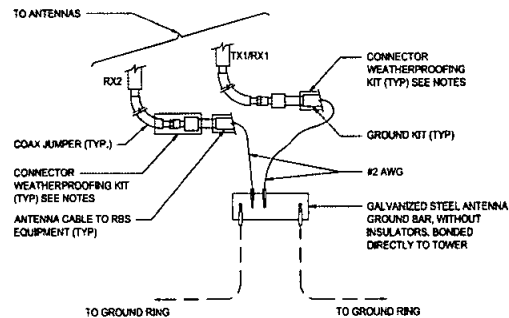
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1. APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT IN LINE LUG.
2. IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT T-MOBILE CM FOR REPLACEMENT THREADED ROD KIT.

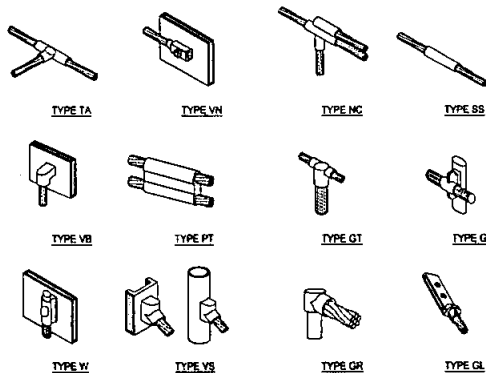
WIRE INSTALLATION

SCALE
N.T.S. 6



GROUND CABLE CONNECTION

SCALE
N.T.S. 5



EXOTHERMIC WELD CONNECTIONS

SCALE
N.T.S. 4

1. ANTENNA GROUND BUS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT. SEE DETAIL 5G-1.
2. EQUIPMENT GROUND BUS BAR NEAR EQUIPMENT WITH COAX GROUND KIT. SEE DETAIL 6G-1.
3. #6 AWG GROUND FROM ANTENNA GROUND BUS BAR TO TIE INTO EXISTING GROUNDING SYSTEM (TYP OF (2) PLACES). SEE DETAIL 6G-1.
4. #6 AWG GROUND FROM ANTENNAS TO ANTENNA GROUND BUS BAR. SEE DETAIL 5G-1.
5. #6 AWG GROUND FROM RADIOS TO ANTENNA GROUND BUS BAR. SEE DETAIL 6G-1.
6. #6 AWG GROUND MMBS GROUND CABINET TO EQUIPMENT GROUND BUS BAR. SEE DETAIL 6G-1.
7. #6 AWG GROUND FROM NEW GROUND BUS BAR TO TIE INTO EXISTING GROUNDING SYSTEM (TYP OF (2) PLACES). SEE DETAIL 4G-1.

GROUNDING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊗	COPPER GROUND ROD	☒	TEST WELL
⊠	MECHANICAL CONNECTION	=====	GROUND BAR
⊞	CADWELD CONNECTION	— o —	GROUNDING WIRE
⚡	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM		

GROUNDING KEY

SCALE
N.T.S. 3

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS, FOLLOW ANTENNA AND BTS MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELDS AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFRS PRACTICES.
3. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY A T-MOBILE REPRESENTATIVE.
5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
6. CONTRACTOR TO ABIDE BY ALL T-MOBILE SAFETY STANDARDS DURING SITE CONSTRUCTION.
7. CONTRACTOR SHALL REFER TO T-MOBILE STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS.
8. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED T-MOBILE REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM, PHOTO DOCUMENT ALL CADWELDS AND GROUND RING.
9. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
10. GROUNDING ROD NOTES (WHERE APPLICABLE)
11. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED. A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
12. POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE ABOVE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE AC SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

GENERAL GROUNDING NOTES

SCALE
N.T.S. 2

SCHEMATIC ANTENNA GROUNDING PLAN

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

T-Mobile

10550 META DRIVE, SUITE 100
SAN DIEGO, CA 92121
1-800-T-MOBILE

SAC

WIRELESS
SAC AE DESIGN GROUP, INC.
5016 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
WWW.SACAE.COM

REVISIONS			
NO.	DATE	DESCRIPTION	BY
0	08/24/16	90% CD's	JL
1	09/14/16	100% CD's	CA

NOT FOR CONSTRUCTION UNLESS LABELED
AS CONSTRUCTION SET

DATE
I HEREBY CERTIFY THAT THESE PLANS WERE
PREPARED BY ME AND UNDER MY DIRECT
SUPERVISION AND THAT I AM A duly REGISTERED
ARCHITECT UNDER THE LAWS OF THE STATE OF
CALIFORNIA.

PARADISE MESA WT
SD06326A
1513 STATION CT
SAN DIEGO, CA 92114

SHEET TITLE

SCHEMATIC GROUNDING
PLANS, NOTES & DETAILS

SHEET NUMBER

G-1.0