



Real Estate Assets City Consent Application

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

05/29/19

Date

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

RE: Site Name: Lake Murray Water Department Employee Training and Development Center Project # SD34XC689
Site Address: 5510 Kiowa Dr. San Diego, CA 91942, San Diego (the "Property")
Agreement: Agreement dated 12/20/2002 (the "agreement") between The City of San Diego ("City") and Sprint PCS Assets ("Lessee" or "Permittee").

Sprint PCS Assets is seeking Consent from the City to perform the following to the above
Applicant's Name/Company
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:

Modification:
(6) Total antennas
Remove (6) existing antennas
Install (6) new antennas to replace (6) existing antennas
(12) Total RRHs
Reuse (6) existing RRHs
Install (6) new RRHs
(1) new junction box in the existing leased equipment area

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, Sprint PCS Assets would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Jessica Fernandez, Md7 LLC, agent for Sprint PCS Assets

Applicant Signature: Jessica Fernandez
DocuSigned by: 3C65BE58C984BA...

☐ 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.

City PUBLIC UTILITIES Department 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.

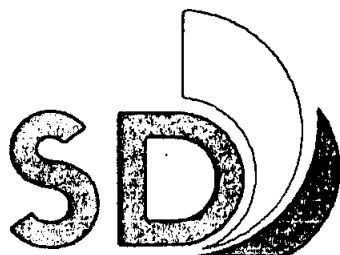
7/10/19 Racann R. Rodriguez [Signature]
 Date Print Name & Title Signature
Safety & Training Manager

City of San Diego, acknowledgement and consent for PVD-ETDC SSI- KIONA DL LAMESA
 Site Location 91942

7/10/19 CYRIL C. HANSON [Signature]
 Date Print Name & Title Signature
Director of Public Works

For READ ONLY

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



Real Estate Assets



PROJECT: B2 DO MACRO UPGRADE

SITE NAME: ETDC ANTENNAS

SITE CASCADE: SD34XC689

SITE ADDRESS: 5510 KIOWA DR
SAN DIEGO, CA 91942

SITE TYPE: ROOFTOP



ENGINEERING LICENSE

SITE INFORMATION		AREA MAP		PROJECT DESCRIPTION		DRAWING INDEX																											
PROPERTY OWNER: CITY OF SAN DIEGO 1200 3RD AVE., SUITE 1700 SAN DIEGO, CA 92101 CONTACT: ENZA CHARLES echarles@sandiego.gov 619.587.5984 1200 THIRD AVE #1700 SAN DIEGO, CA 92101 LATITUDE (NAD83): N 32° 48' 55.7" NAD83 N 32.782136° NAD83 LONGITUDE (NAD83): W -117° 02' 28.9" NAD83 W -117.040864° NAD83 COUNTY: SAN DIEGO ZONING JURISDICTION: CITY & COUNTY OF SAN DIEGO ZONING DISTRICT: AR-1-1 POWER COMPANY: SOUTHERN CALIFORNIA EDISON PARCEL NUMBER(S): 484-010-07 SPRINT AGENT: M27, LLC 10590 WEST OCEAN AVE DR #300 SAN DIEGO, CA 92130 CONTACT: DRAKE ERICKSON PHONE: 858.291.1823 SPRINT PROJECT MANAGER: 3730 FIFTH AVENUE SAN DIEGO, CA 92103 CONTACT: MARY HAMILTON PHONE: 619.720.0188 EMAIL: mary.hamilton@sprint.com CONSTRUCTION MANAGER: 3730 FIFTH AVENUE SAN DIEGO, CA 92103 CONTACT: STEVE LAYMAN EMAIL: slayman@infinigy.com INFINIGY PROJECT MANAGER: 1480 W 121st AVE., SUITE 101 WESTMINSTER, CO 80234 CONTACT: CHRIS LIPS EMAIL: clips@infinigy.com				UPGRADE TO AN EXISTING SPRINT SITE: • ANTENNAS (8 TOTAL) 1. REMOVE (0) EXISTING ANTENNAS 2. INSTALL (8) PANEL ANTENNAS • RWYS (12 TOTAL) 1. REMOVE (0) EXISTING RWYS 2. INSTALL (8) NEW RWYS • INSTALL (1) NEW FIBER JUNCTION BOX		<table border="1"> <thead> <tr> <th>SHEET NO:</th> <th>SHEET TITLE</th> </tr> </thead> <tbody> <tr><td>T-1</td><td>TITLE SHEET</td></tr> <tr><td>SP-1</td><td>SPRINT SPECIFICATIONS</td></tr> <tr><td>SP-2</td><td>SPRINT SPECIFICATIONS</td></tr> <tr><td>A-1</td><td>SITE PLAN AND EQUIPMENT LAYOUT</td></tr> <tr><td>A-2</td><td>LEGENDS, EQUIPMENT TABULATION AND ANTENNA LAYOUTS</td></tr> <tr><td>A-3</td><td>NORTHWEST ELEVATIONS</td></tr> <tr><td>A-3.1</td><td>SOUTHEAST ELEVATIONS</td></tr> <tr><td>A-3.2</td><td>NORTHEAST ELEVATIONS</td></tr> <tr><td>D-1</td><td>EQUIPMENT DETAILS</td></tr> <tr><td>D-2</td><td>EQUIPMENT DETAILS</td></tr> <tr><td>D-3</td><td>RF DATA SHEET</td></tr> <tr><td>E-1</td><td>GROUNDING PLAN AND DETAILS</td></tr> </tbody> </table>		SHEET NO:	SHEET TITLE	T-1	TITLE SHEET	SP-1	SPRINT SPECIFICATIONS	SP-2	SPRINT SPECIFICATIONS	A-1	SITE PLAN AND EQUIPMENT LAYOUT	A-2	LEGENDS, EQUIPMENT TABULATION AND ANTENNA LAYOUTS	A-3	NORTHWEST ELEVATIONS	A-3.1	SOUTHEAST ELEVATIONS	A-3.2	NORTHEAST ELEVATIONS	D-1	EQUIPMENT DETAILS	D-2	EQUIPMENT DETAILS	D-3	RF DATA SHEET	E-1	GROUNDING PLAN AND DETAILS
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THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

CONTRACTOR SUPPLIES:

SUPPLIER WILL SUPPLY ALL MINOR MATERIALS NECESSARY FOR PERFORMANCE OF SERVICES.

MINOR MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ("MINOR MATERIALS"):

- CONDUIT IN LENGTHS LESS THAN OR EQUAL TO 5 FEET;
- WIRE;
- BREAKERS;
- GROUNDING CABLE;
- ANTENNA AND LINE INSTALLATION HARDWARE;
- CONDUIT CLAMPS;
- CONDUIT CONNECTORS;
- WEATHERPROOFING MATERIALS;
- GROUNDING KITS;
- VESTING COPS;
- SWAP-IN HANGERS WITH ORNAMENTS;
- BUTTERFLY HANGER KITS;
- COAX BLOCKS AND HARDWARE;
- ANGLE ADAPTERS, U BOLTS, AND OTHER MISCELLANEOUS HARDWARE;
- CROSSOVER PLATES;
- RFI CABLES;
- PIPE MOUNTS, PIPE TO PIPE MOUNTS;
- ICE BRIDGES IN LENGTHS LESS THAN OR EQUAL TO 5 FEET;
- LIQUID TIGHT;
- COMMON CONSUMABLES, INCLUDING BUT NOT LIMITED TO TAPES, SOLVENTS, ADHESIVES, LUGS, NUTS, BOLTS, WASHERS, ETC.; AND
- SUCH OTHER MINOR MATERIALS NOT SPECIFICALLY MENTIONED IN THIS SECTION BUT WHICH ARE REASONABLY NECESSARY TO COMPLETE THE SERVICES.

SPRINT SUPPLIES:

- BASE BAND UNITS;
- BATTERY CABINETS;
- MINI-TS UNIT CABINETS;
- RFI;
- RFIS;
- ANTENNAS AND BRACKETS;
- RFCS;
- BATTERIES;
- JUMPERS AND
- ANY OEM SPECIFIC EQUIPMENT (CARD, SHELF, OR CABINET) THAT NEEDS TO BE INSTALLED IN OR NEXT TO MINIS UNIT.

SECTION 01 100 - SCOPE OF WORK

THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF.

PROCEDURES:

SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE.

SITE FAMILIARITY:

CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

ON-SITE SUPERVISION:

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE:

THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.

- DETAILS ARE INTENDED TO SHOW DESIGN INTENT, PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- MARK THE FIELD SET OF DRAWINGS IN RED, DOCUMENTING ANY CHANGES FROM THE CONSTRUCTION DOCUMENTS.

METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION:

CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN THE FOLLOWING INSTALLATION AND COMMISSIONING MOPS.

- TOP HAT
- HOW TO INSTALL A NEW CABINET
- BASE BAND UNIT IN EXISTING UNIT
- INSTALLATION OF BATTERIES
- INSTALLATION OF HYBRID CABLE
- INSTALLATION OF RFI
- CABLEING
- TS-0200 REV 4 - ANTENNA LINE ACCEPTANCE STANDARDS
- SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV. 1.
- COMMISSIONING MOPS

SECTION 01 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT

COMPANY FURNISHED MATERIAL AND EQUIPMENT IS IDENTIFIED ON THE RF DATA SHEET IN THE CONSTRUCTION DRAWINGS.

CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSURE IT IS PROTECTED AND HANDLED PROPERLY THROUGHOUT THE CONSTRUCTION DURATION.

CONTRACTOR RESPONSIBLE FOR RECEIPT OF SPRINT FURNISHED EQUIPMENT AT CELL SITE OR CONTRACTORS LOCATION. CONTRACTOR TO COMPLETE SHIPPING AND RECEIPT DOCUMENTATION IN ACCORDANCE WITH COMPANY PRACTICE.

SECTION 01 300 - CELL SITE CONSTRUCTION

NOTICE TO PROCEED:

NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF WORK ORDER.

SITE CLEANLINESS:

CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.

SECTION 01 400 - SUBMITTALS & TESTS

ALTERNATES:

AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINT'S CONSTRUCTION MANAGER FOR APPROVAL. SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL APPROVALS WILL BE CONSIDERED.

TESTS AND INSPECTIONS:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.

B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS.
- ACL, AZIMUTH, DOWN TILT, AND AUTOMATED REPORT UPLOADED TO SITERA USING A COMMERCIAL, MADE-FOR-THE-PURPOSE ELECTRONIC ANTENNA ALIGNMENT TOOL (AAT). INSTALLED AZIMUTH, CENTERLINE AND DOWN TILT MUST CONFORM WITH RF CONFIGURATION DATA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS.
- REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
 - AZIMUTH, DOWN TILT, AAT FROM SUNSHINE INSTRUMENTS - ANTENNA ALIGNMENT TOOL (AAT)
 - SWEEP AND FIBER TESTS
 - SCANNABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
 - ALL AVAILABLE JURISDICTIONAL INFORMATION
 - PDF SCAN OF REDLINES PRODUCED IN FIELD
 - A PDF SCAN OF REDLINE MARK-UPS SUITABLE FOR USE IN ELECTRONIC AS-BUILT DRAWING PRODUCTION
 - LIEN WARNERS
 - FINAL PAYMENT APPLICATION
 - REQUIRED FINAL CONSTRUCTION PHOTOS
 - CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT ITEMS
 - ALL POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERA (SPRINTS DOCUMENT REPOSITORY OF RECORD).
- CLOSEOUT PHOTOGRAPHS:
 - PROVIDE PHOTOGRAPHS OF FINAL PROJECT PER THE FOLLOWING LIST. ADDITIONAL PHOTOGRAPHS MAY BE REQUIRED TO SUPPORT ACCEPTANCE PROCESSES
 - MAIN HYBRID CABLE ROUTE (MINIMUM TWO PHOTOS)
 - PHOTOS OF EACH ANTENNA AND RFI
 - MANUFACTURERS NAME TAG FOR ALL SERIALIZED EQUIPMENT
 - PULL AND DISTRIBUTION BOXES INTERMEDIATE BETWEEN RFI AND MMS (DOOR OPEN)
 - MMS CABINET WITH DOOR OPEN SHOWING MODIFICATIONS
 - POWER CABINET, DOORS OPEN, BATTERIES INSTALLED
 - BREAK OUT CYLINDERS
 - ASR SIGNAGE FOR SPRINT OWNED TOWERS
 - RADIATION EXPOSURE WARNING SIGNS
 - PHOTOGRAPH FROM EACH SECTOR FROM APPROXIMATELY 740 CENTER OF ANY NEW ANTENNA AT HORIZON.
 - LOAD PHOTOS TO SITERA PROJECT LIBRARY IS. IN IS CREATE NEW CATEGORY: 250004: DEPLOYMENT, AND SECTION PERMANENT CONSTRUCTION. LABEL PHOTOS WITH SITE CASCADE AND VIEW BEING DEPICTED. CAMERAS USED TO TAKE PHOTOGRAPHS SHALL GPS ENABLED SUCH THAT THE GPS COORDINATES ARE INCLUDED IN THE PHOTO MEDIA-FILE INFORMATION.

COMMISSIONING:

PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPS

INTEGRATION: PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPS

SECTION 07 500 - ROOF CUTTING, PATCHING AND REPAIR

SUMMARY: THIS SECTION SPECIFIES CUTTING AND PATCHING EXISTING ROOFING SYSTEMS WHERE CONDUIT OR CABLES EXIT THE BUILDING ONTO THE ROOF OR BUILDING-MOUNTED ANTENNAS, AND AS REQUIRED FOR WATERIGHT PERFORMANCE. ROOFTOP ENTRY OPENINGS IN MEMBRANE ROOFTOPS SHALL BE CONSTRUCTED TO COMPLY WITH LANDLORD, ANY EXISTING WARRANTY, AND LOCAL JURISDICTIONAL STANDARDS.

1.4 SUBMITTALS:

- PRE-CONSTRUCTION ROOF PHOTOS: COMPLETE A ROOF INSPECTION PRIOR TO THE INSTALLATION OF SPRINT EQUIPMENT ON ANY ROOFTOP BUILD. AT A MINIMUM INSPECT AND PHOTOGRAPH (MINIMUM 3 EA) ALL AREAS IMPACTED BY THE ADDITION OF THE SPRINT EQUIPMENT.
- PROVIDE SIMILAR PHOTOGRAPHS SHOWING ROOF CONDITIONS AFTER CONSTRUCTION (MINIMUM 3 EA).
- PROVIDE SIMILAR PHOTOGRAPHS SHOULD BE UPLOADED WITH CLOSEOUT PHOTOGRAPHS.

SECTION 09 900 - PAINTING

QUALITY ASSURANCE:

A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. COMPLY WITH ALL ENVIRONMENTAL REGULATIONS FOR VOLATILE ORGANIC COMPOUNDS.

MATERIALS:

A. MANUFACTURERS: BENJAMIN MOORE, ICI DEVCO COATINGS, PPG, SHERWIN WILLIAMS OR APPROVED EQUAL. PROVIDE PREMIUM GRADE, PROFESSIONAL-QUALITY PRODUCTS FOR COATING SYSTEMS.

PAINT SCHEDULE:

A. EXTERIOR ANTENNA AND ANTENNA MOUNTING HARDWARE: ONE COAT OF PRIMER AND TWO FINISH COATS. PAINT FOR ANTENNAE SHALL BE NON-METALLIC BASED AND CONTAIN NO METALLIC PARTICLES. PROVIDE COLORS AND PATTERNS AS REQUIRED TO MATCH APPEARANCE OF ANTENNAE ON ADJACENT BUILDING SURFACES AND AS ACCEPTABLE TO THE OWNER. REFER TO ANTENNA MANUFACTURER'S INSTRUCTIONS WHENEVER POSSIBLE.

B. ROOF TOP CONSTRUCTION: TOUCH UP - PREPARE SURFACES TO BE REPAIRED. FOLLOW INDUSTRY STANDARDS AND REQUIREMENTS OF OWNER TO MATCH EXISTING COATING AND FINISH.

PAINTING APPLICATION:

- INSPECT SURFACES, REPORT UNSATISFACTORY CONDITIONS IN WRITING; BEGINNING WORK MEANS ACCEPTANCE OF SUBSTRATE.
- COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR PREPARATION, PRIMER AND COATING WORK. COORDINATE WITH WORK OF OTHER SECTIONS.
- MATCH APPROVED MOCK-UPS FOR COLOR, TEXTURE, AND PATTERN. RE-COAT OR REMOVE AND REPLACE WORK WHICH DOES NOT MATCH OR SHOWS LOSS OF ADHESION.
- CLEAN UP, TOUCH UP AND PROTECT WORK.

TOUCHUP PAINTING:

- GALVANIZING DAMAGE AND ALL BOLTS AND NUTS SHALL BE TOUCHED UP AFTER TOWER ERECTION WITH "GALVANOL," "ZINC DUST," OR "ZINC-IT."
- FIELD TOUCHUP PAINT SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL METAL COMPONENTS SHALL BE HANDLED WITH CARE TO PREVENT DAMAGE TO THE COMPONENTS, THEIR PRESERVATIVE TREATMENT, OR THEIR PROTECTIVE COATINGS.

SECTION 11 700 - ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND CABLE INSTALLATION

SUMMARY:

THIS SECTION SPECIFIES INSTALLATION OF ANTENNAS, RFI, AND CABLE EQUIPMENT, INSTALLATION, AND TESTING OF COAXIAL FIBER CABLE.

ANTENNAS AND RFI:

THE NUMBER AND TYPE OF ANTENNAS AND RFI TO BE INSTALLED IS DETAILED ON THE CONSTRUCTION DRAWINGS.

HYBRID CABLE:

HYBRID CABLE WILL BE DC/FIBER AND FURNISHED FOR INSTALLATION AT EACH SITE. CABLE SHALL BE INSTALLED PER THE CONSTRUCTION DRAWINGS AND THE APPLICABLE MANUFACTURER'S REQUIREMENTS.

JUMPERS AND CONNECTORS:

FURNISH AND INSTALL 1/2" COAX JUMPER CABLES BETWEEN THE RFI AND ANTENNAS. JUMPERS SHALL BE TYPE LDF 4, FLC 12-30, OR 540, OR FPL 540. SUPER-FLEX CABLES ARE NOT ACCEPTABLE. JUMPERS BETWEEN THE RFI AND ANTENNAS OR TOWER TOP AMPLIFIERS SHALL CONSIST OF 1/2" INCH FOAM DIELECTRIC, OUTDOOR RATED COAXIAL CABLE. DO NOT USE SUPERFLEX OUTDOORS. JUMPERS SHALL BE FACTORY FABRICATED IN APPROPRIATE LENGTHS WITH A MAXIMUM OF 4 FEET EXCESS PER JUMPER AND HAVE CONNECTORS AT EACH END, MANUFACTURED BY SUPPLIER. IF JUMPERS ARE FIELD FABRICATED, FOLLOW MANUFACTURER'S REQUIREMENTS FOR INSTALLATION OF CONNECTORS

REMOTE ELECTRICAL TILT (RET) CABLES:

MISCELLANEOUS:

INSTALL SPLITTERS, COMBINERS, FILTERS PER RF DATA SHEET, FURNISHED BY SPRINT.

ANTENNA INSTALLATION:

THE CONTRACTOR SHALL ASSEMBLE ALL ANTENNAS ON SITE IN ACCORDANCE WITH THE INSTRUCTIONS SUPPLIED BY THE MANUFACTURER. ANTENNA HEIGHT, AZIMUTH, AND FEED ORIENTATION INFORMATION SHALL BE A DESIGNATED ON THE CONSTRUCTION DRAWINGS.

CONTINUE SHEET SP-2

PLANS PREPARED FOR:



PLANS PREPARED BY:



CONSULTANT:



ENGINEERING LICENSE:



DRAWING NOTICE:

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REVISION	DATE	BY	REV
DESCRIPTION			
ISSUED FOR CONSTRUCTION	05/14/10	CEL	0

SITE NAME: ETDC ANTENNAS

SITE CASCADE: SD34XC689

SITE ADDRESS: 5510 KIOWA DR. SAN DIEGO, CA 91942

SHEET DESCRIPTION: SPRINT SPECIFICATIONS

SHEET NUMBER: SP-1

A. THE CONTRACTOR SHALL POSITION THE ANTENNA ON TOWER PIPE MOUNTS SO THAT THE BOTTOM STRUT IS LEVEL. THE PIPE MOUNTS SHALL BE PLUMB TO WITHIN 1 DEGREE.

B. ANTENNA MOUNTING REQUIREMENTS: PROVIDE ANTENNA MOUNTING HARDWARE AS INDICATED ON THE DRAWINGS.

HYBRID CABLES INSTALLATION:

A. THE CONTRACTOR SHALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING RADIUS.

C. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANDLING AND INSTALLATION.

1. FASTENING MAIN HYBRID CABLES: ALL CABLES SHALL BE PERMANENTLY FASTENED TO THE COAX LADDER AT 4'-0" OC USING NON-MAGNETIC STAINLESS STEEL CLIPS.

2. FASTENING INDIVIDUAL FIBER AND DC CABLES ABOVE BREAKOUT ENCLOSURE (MIDUSA), WITHIN THE MMS CABINET AND ANY INTERMEDIATE DISTRIBUTION BOXES:

a. FIBER: SUPPORT FIBER BUNDLES USING 1/2" VELCRO STRAPS OF THE REQUIRED LENGTH @ 18" OC. STRAPS SHALL BE UV, OIL AND WATER RESISTANT AND SUITABLE FOR INDUSTRIAL INSTALLATIONS AS MANUFACTURED BY TEXTOL OR APPROVED EQUAL.

b. DC: SUPPORT DC BUNDLES WITH ZIP TIES OF THE ADEQUATE LENGTH. ZIP TIES TO BE UV STABILIZED, BLACK NYLON, WITH TENSILE STRENGTH AT 12,000 PSI AS MANUFACTURED BY VELCO PRODUCTS OR EQUAL.

3. FASTENING JUMPERS: SECURE JUMPERS TO THE SIDE ARMS OR HEAD FRAMES USING STAINLESS STEEL TIE WRAPS OR STAINLESS STEEL BUTTERFLY CLIPS.

4. CABLE INSTALLATION:

a. INSPECT CABLE PRIOR TO USE FOR SHIPPING DAMAGE. NOTIFY THE CONSTRUCTION MANAGER.

b. CABLE ROUTING: CABLE INSTALLATION SHALL BE PLANNED TO ENSURE THAT THE LINES WILL BE PROPERLY ROUTED IN THE CABLE ENVELOP AS INDICATED ON THE DRAWINGS. AVOID TWISTING AND CROSSEOVERS.

c. HOIST CABLE USING PROPER HOISTING GRIPS. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM BEND RADIUS.

5. GROUNDING OF TRANSMISSION LINES: ALL TRANSMISSION LINES SHALL BE GROUNDED AS INDICATED ON DRAWINGS.

6. HYBRID CABLE COLOR CODING: ALL COLOR CODING SHALL BE AS REQUIRED IN ITS 0200 REV 4.

7. HYBRID CABLE LABELING: INDIVIDUAL HYBRID AND DC BUNDLES SHALL BE LABELED ALPHABETICALLY ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV 1

WEATHERPROOFING EXTERIOR CONNECTORS AND HYBRID CABLE GROUND KITS:

A. ALL FIBER & COAX CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED.

B. WEATHERPROOFED USING ONE OF THE FOLLOWING METHODS. ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY BEST PRACTICES.

1. COLD SHRINK: ENCOMPASS CONNECTOR IN COLD SHRINK TUBING AND PROVIDE A DOUBLE WRAP OF 2" ELECTRICAL TAPE EXTENDING 2" BEYOND TUBING. PROVIDE 3M COLD SHRINK CDS SERIES OR EQUAL.

2. SELF-AMALGAMATING TAPE: CLEAN SURFACES. APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE 2" BEYOND CONNECTOR. APPLY A SECOND WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION. APPLY DOUBLE WRAP OF 2" WIDE ELECTRICAL TAPE EXTENDING 2" BEYOND THE SELF-AMALGAMATING TAPE.

3. 3M SLIM LOCK CLOSURE 718: SUBSTITUTIONS WILL NOT BE ALLOWED.

4. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

SECTION 11.800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMS) AND RELATED EQUIPMENT

SUMMARY:

A. THIS SECTION SPECIFIES MMS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT INCLUDING BUT NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION UNITS, BASE BAND UNITS, SURGE ARRESTORS, BATTERIES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFC).

B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE INSTALLATION MOPS.

C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

DC CIRCUIT BREAKER LABELING

A. LABEL CIRCUIT BREAKERS ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV 1.

SECTION 11.800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMS) AND RELATED EQUIPMENT

SUMMARY:

A. THIS SECTION SPECIFIES MMS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT INCLUDING BUT NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION UNITS, BASE BAND UNITS, SURGE ARRESTORS, BATTERIES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFC).

B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE INSTALLATION MOPS.

C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

SUPPORTING DEVICES:

A. MANUFACTURED STRUCTURAL SUPPORT MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING:

1. ALLIED TUBE AND CONDUIT
2. D-LINE SYSTEM
3. SUNSTRUT DIVERSIFIED PRODUCTS
4. THOMAS & BETTS

B. FASTENERS: TYPES, MATERIALS, AND CONSTRUCTION FEATURES AS FOLLOWS:

1. EXPANSION ANCHORS: CARBON STEEL WEDGE OR SLEEVE TYPE.
2. POWER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL, DESIGNED SPECIFICALLY FOR THE INTENDED SERVICE.
3. FASTEN BY MEANS OF WOOD SCREWS ON WOOD.
4. TOGGLE BOLTS ON HOLLOW MASONRY UNITS.
5. CONCRETE INSERTS OR EXPANSION BOLTS ON CONCRETE OR SOLID MASONRY.
6. MACHINE SCREWS, WELDED THREADED STUDS, OR SPRING-TENSION CLAMPS ON STEEL.
7. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE SHALL NOT BE PERMITTED.
8. DO NOT WELD CONDUIT, PIPE STRAPS, OR ITEMS OTHER THAN THREADED STUDS TO STEEL STRUCTURES.
9. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, USE SHEET METAL SCREWS.

SUPPORTING DEVICES:

A. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.

B. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES.

C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE STRUCTURE IN ACCORDANCE WITH THE FOLLOWING:

- A. ENSURE THAT THE LOAD APPLIED BY ANY FASTENER DOES NOT EXCEED 25 PERCENT OF THE PROOF TEST LOAD.
- B. ENSURE VIBRATION AND SHOCK-RESISTANT FASTENERS FOR ATTACHMENTS TO CONCRETE SLABS.

ELECTRICAL IDENTIFICATION:

A. UPDATE AND PROVIDE TYPED CIRCUIT BREAKER SCHEDULES IN THE MOUNTING BRACKET, INSIDE DOORS OF AC PANEL BOARDS WITH ANY CHANGES MADE TO THE AC SYSTEM.

B. BRANCH CIRCUITS FEEDING AVIATION OBSTRUCTION LIGHTING EQUIPMENT SHALL BE CLEARLY IDENTIFIED AS SUCH AT THE BRANCH CIRCUIT PANELBOARD.

SECTION 28.200 - ELECTRICAL MATERIALS AND EQUIPMENT

CONDUIT:

A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND FOR ENCASED RUNS IN CONCRETE. RIGID CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC. EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-561 AND SHALL BE LISTED WITH THE UNDERWRITERS' LABORATORIES. FITTINGS SHALL BE THREADED - SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTABLE. RGS CONDUITS SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND.

B. UNDERGROUND CONDUIT IN CONCRETE SHALL BE POLYVINYLCHLORIDE (PVC) SUITABLE FOR DIRECT BURIAL AS APPLICABLE. JOINTS SHALL BE BELLED, AND FLUSH SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE CARLON ELECTRICAL PRODUCTS OR APPROVED EQUAL.

C. TRANSITIONS BETWEEN PVC AND RIGID (RGS) SHALL BE MADE WITH PVC COATED METALLIC LONG SWEEP RADIUS ELBOWS.

D. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED SPACES CONCEALED IN WALLS AND CEILINGS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO-GALVANIZED OR HOT-DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW-C-563, AND SHALL BE UL LISTED. EMT SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND, OR APPROVED EQUAL. FITTINGS SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE.

E. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC CLAMP TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 8'-FEET. LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRE BY NEC. MANUFACTURERS OF FLEXIBLE CONDUITS SHALL BE CAROL, AWACONDA METAL HOSE OR UNIVERSAL METAL HOSE, OR APPROVED EQUAL.

F. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (21MM).

HUBS AND BOXES:

A. AT ENTRANCES TO CABINETS OR OTHER EQUIPMENT NOT HAVING INTEGRAL THREADED HUBS PROVIDE METALLIC THREADED HUBS OF THE SIZE AND CONFIGURATION REQUIRED. HUB SHALL INCLUDE LOCKWOT AND NEOPRENE O-RING SEAL. PROVIDE IMPACT RESISTANT 105 DEGREE C PLASTIC BUSHINGS TO PROTECT CABLE INSULATION.

B. CABLE TERMINATION FITTINGS FOR CONDUIT

1. CABLE TERMINATORS FOR RGS CONDUITS SHALL BE TYPE CRC BY O-Z/GEDNEY OR EQUAL.

2. CABLE TERMINATORS FOR LFMC SHALL BE ETCO - CL2076; OR MADE FOR THE PURPOSE. PRODUCTS BY ROKITEC.

C. EXTERIOR PULL BOXES AND PULL BOXES IN INTERIOR INDUSTRIAL AREAS SHALL BE PLATED CAST ALLOY, HEAVY DUTY, WEATHERPROOF, DUST PROOF, WITH GASKET, PLATED IRON ALLOY COVER AND STAINLESS STEEL COVER SCREWS, CROUSE-HINDS 1848 SERIES OR EQUAL.

D. CONDUIT OUTLET BODIES SHALL BE PLATED CAST ALLOY WITH SIMILAR GASKETED COVERS. OUTLET BODIES SHALL BE OF THE CONFIGURATION AND SIZE SUITABLE FOR THE APPLICATION. PROVIDE CROUSE-HINDS FORM B OR EQUAL.

E. MANUFACTURER FOR BOXES AND COVERS SHALL BE HOFFMAN, SQUARE "D", CROUSE-HINDS, COOPER, ADALST, APPLETON, O-Z GEDNEY, RACO, OR APPROVED EQUAL.

SUPPLEMENTAL GROUNDING SYSTEM

A. FURNISH AND INSTALL A SUPPLEMENTAL GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS. SUPPORT SYSTEM WITH NON-MAGNETIC STAINLESS STEEL CLIPS WITH RUBBER GROMMETS. GROUNDING CONNECTORS SHALL BE TINNED COPPER WIRE, SIZES AS INDICATED ON THE DRAWINGS. PROVIDE STRANDED OR SOLID BARE OR INSULATED CONDUCTORS AS INDICATED.

B. SUPPLEMENTAL GROUNDING SYSTEM: ALL CONNECTIONS TO BE MADE WITH CAD WELDS, EXCEPT AT EQUIPMENT USE LUGS OR OTHER AVAILABLE GROUNDING MEANS AS REQUIRED BY MANUFACTURER. AT GROUND BARS USE TWO HOLE SPACES WITH NO OL.

C. STOLEN GROUND-BARS: IN THE EVENT OF STOLEN GROUND BARS, CONTACT SPRINT CM FOR REPLACEMENT INSTRUCTION USING THREADED ROD KITS.

EXISTING STRUCTURE:

A. EXISTING EXPOSED WIRING AND ALL EXPOSED OUTLETS, RECEPTACLES, SWITCHES, DEVICES, BOXES, AND OTHER EQUIPMENT THAT ARE NOT TO BE UTILIZED IN THE COMPLETED PROJECT SHALL BE REMOVED OR DE-ENERGIZED AND CAPPED IN THE WALL, CEILING, OR FLOOR SO THAT THEY ARE CONCEALED AND SAFE. WALL, CEILING, OR FLOOR SHALL BE PATCHED TO MATCH THE ADJACENT CONSTRUCTION.

CONDUIT AND CONDUCTOR INSTALLATION:

A. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT BUNDLES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKWOT ON OUTSIDE AND INSIDE.

B. CONDUCTORS SHALL BE PULLED IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE.

PLANS PREPARED FOR:



PLANS PREPARED BY:



CONSULTANT:



ENGINEERING LICENSE:

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REVISIONS	DESCRIPTION	DATE	BY	REV

ISSUED FOR CONSTRUCTION

06/11/18 CL 8

SITE NAME:

ETDC ANTENNAS

SITE CASCADE:

SD34XC689

SITE ADDRESS:

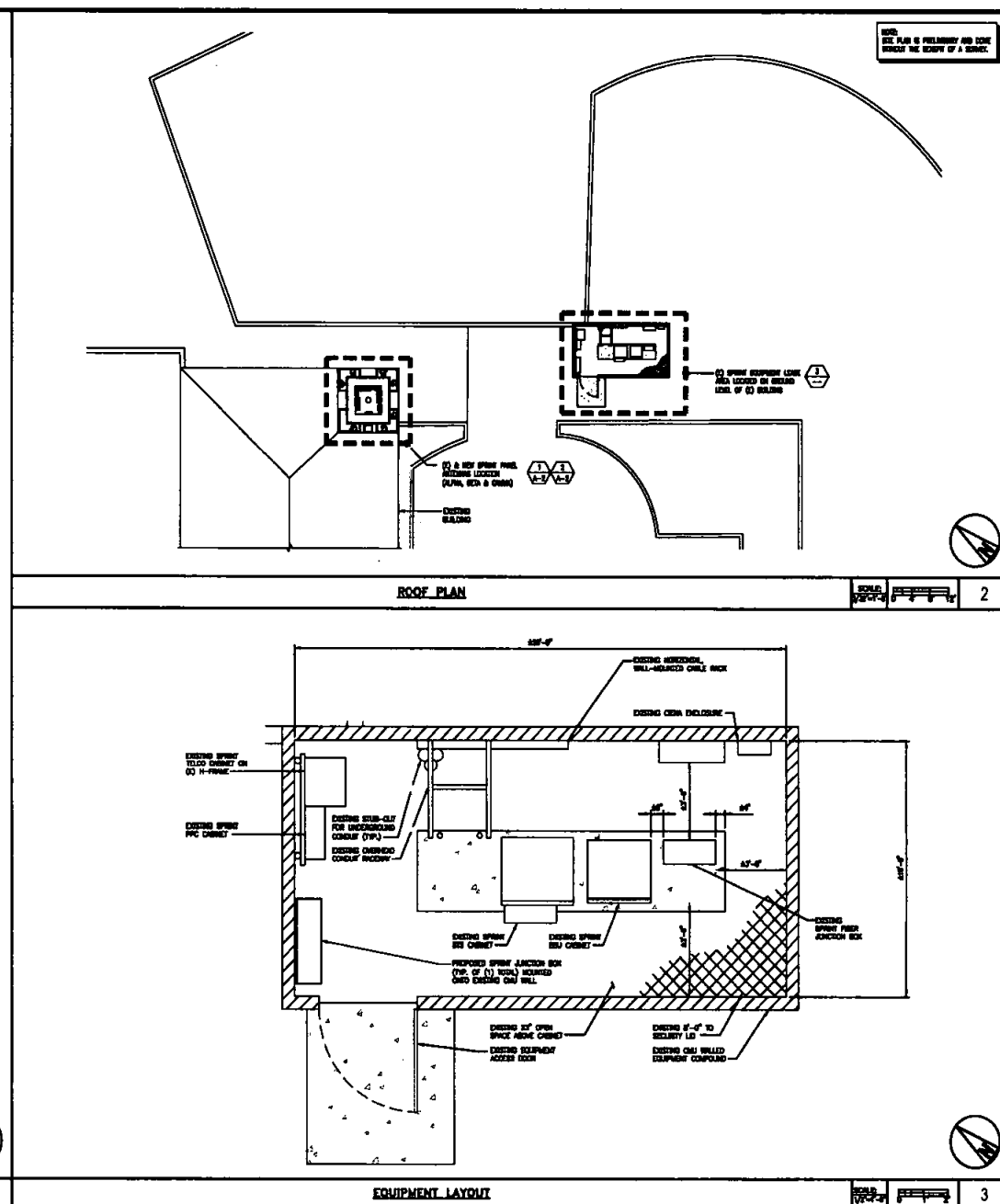
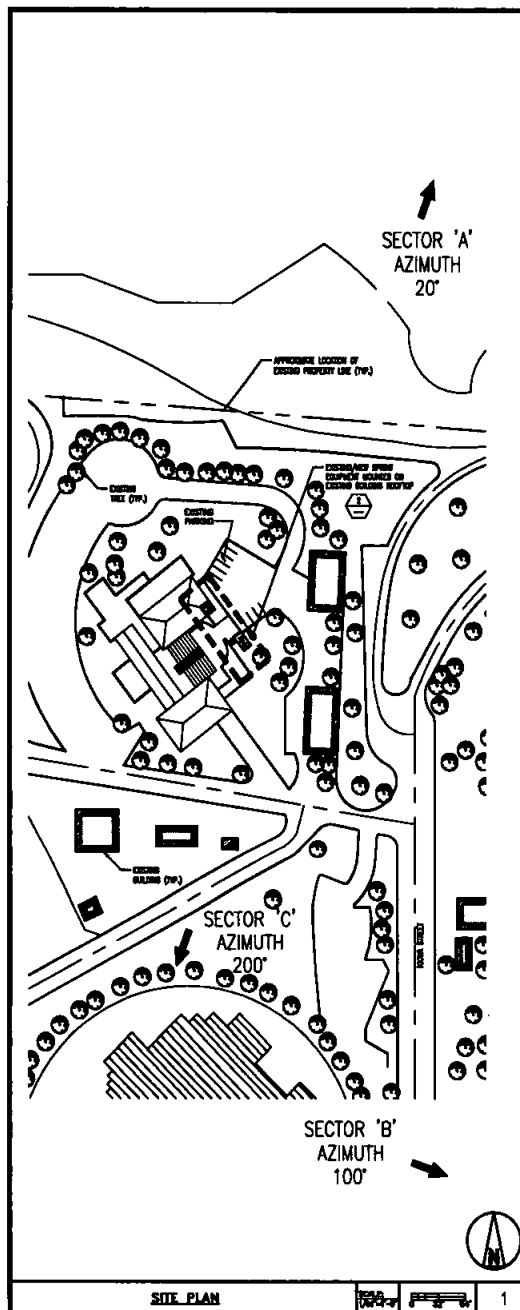
5510 KIOWA DR.
SAN DIEGO, CA 91942

SHEET DESCRIPTION:

SPRINT SPECIFICATIONS

SHEET NUMBER:

SP-2



PLANS PREPARED FOR

Sprint

3730 5TH AVE.
SAN DIEGO, CA 92103

PLANS PREPARED BY

INFINIGY8

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The solutions are endless

28455 RANCHO PARKWAY SOUTH
LAKE FOREST, CALIFORNIA 92509
108.8681-001

CONSULTANT

md7

MD7 LLC
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REVISIONS	DESCRIPTION	DATE	BY	REV
1	ISSUED FOR CONSTRUCTION	05/24/10	CEL	1

SITE NAME

ETDC ANTENNAS

SITE CASCADE

SD34XC689

SITE ADDRESS

5510 KIOWA DR.
SAN DIEGO, CA 91942

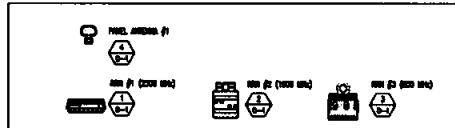
SHEET DESCRIPTION

SITE PLAN &
EQUIPMENT LAYOUT

SHEET NUMBER

A-1

LEGENDS:

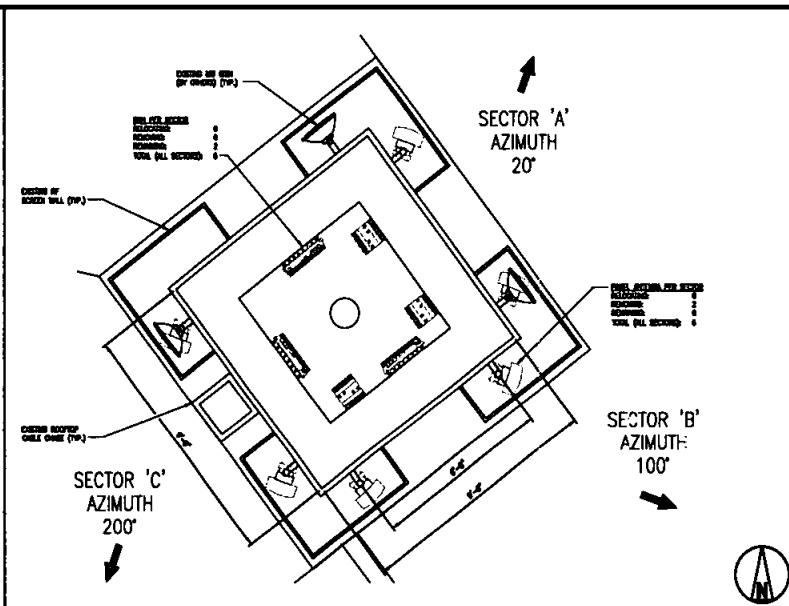


EXISTING AND NEW EQUIPMENT TABULATION (TOTAL COUNT)

THIS PROJECT ACCORDS FOR THE EQUIPMENT LISTED ON THE TABLE BELOW. THE DRAWING AND CALCULATIONS DO NOT SUPERSEDE PREVIOUS CALCULATIONS PREPARED BY THE ORIGINAL ARCHITECT OR ENGINEER.

EQUIPMENT	EXISTING	REMOVE	NEW	TOTAL	WEIGHT (APPROX.) LBS	
					PER UNIT	TOTAL
PANEL ANTENNA (P)	0	0	0	0	85.6	0.0
HORN (H)	3	0	0	3	44.1	132.3
HORN (H)	3	0	0	3	88.8	266.4
HORN (H)	0	0	0	0	42.0	0.0
TOTAL:						398.7

NOTE: EQUIPMENT LESS THAN 10 LBS ARE CONSIDERED MISCELLANEOUS ITEMS AND ARE NOT SHOWN.

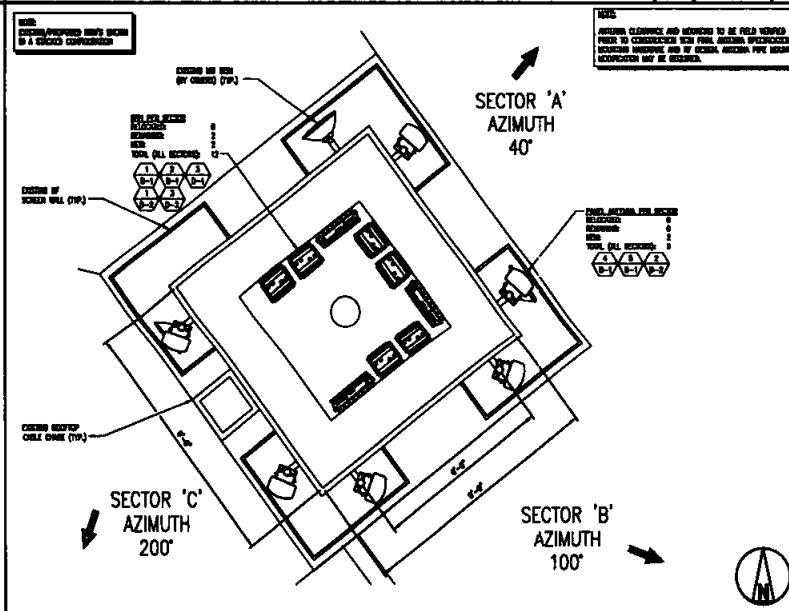


LEGENDS & EQUIPMENT TABULATION

NO SCALE 3

EXISTING ANTENNA LAYOUT

NO SCALE 1



DETAIL NOT USED

NO SCALE 4

PROPOSED ANTENNA LAYOUT

NO SCALE 2

PLANS PREPARED FOR:

Sprint
3730 5TH AVE.
SAN DIEGO, CA 92103

PLANS PREPARED BY:

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the solutions are endless
28455 RANCHO PARADISE SOUTH
LAKE FOREST, CALIFORNIA 92650
JOB #557-001

CONSULTANT:

md7
MD7, LLC
10870 WEST OCEAN AVE. D18 8800
SAN DIEGO, CA 92130
619.771.7800

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REVISIONS	DATE	BY	REV
DESCRIPTION			
ISSUED FOR CONSTRUCTION	05/04/08	CEL	0

SITE NAME:

ETDC ANTENNAS

SITE CASCADE:

SD34XC689

SITE ADDRESS:

5510 KIOWA DR.
SAN DIEGO, CA 91942

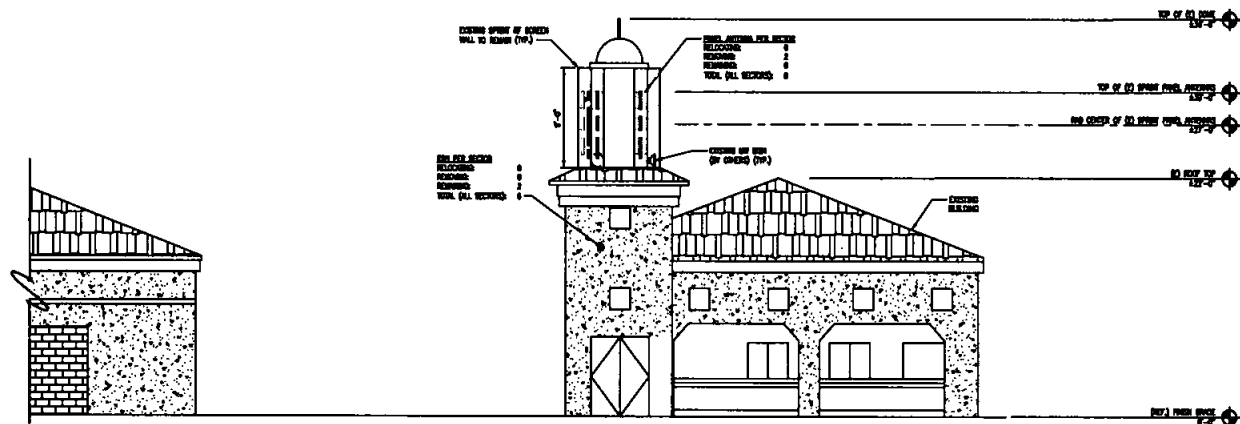
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LEGENDS, EQUIP TABULA.
& ANTENNA LAYOUTS

SHEET NUMBER:

A-2

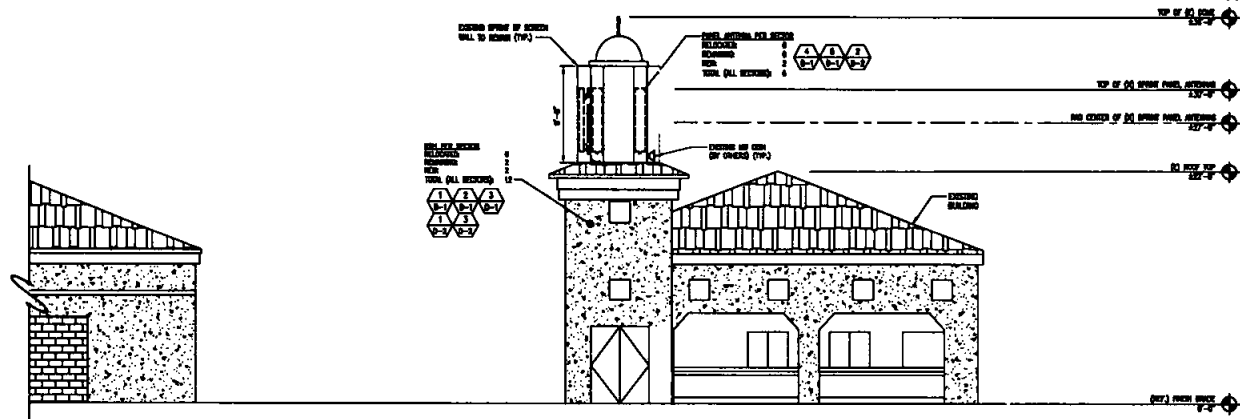
NOTE:
VIEW OF BUILDING ELEVATION CUT BEHIND FOR CLARITY
PURPOSED TO ONLY SHOW LOCATION OF SECTION HOUSE



EXISTING NORTH EAST ELEVATION (GAMMA)

1

NOTE:
VIEW OF BUILDING ELEVATION CUT BEHIND FOR CLARITY
PURPOSED TO ONLY SHOW LOCATION OF SECTION HOUSE



PROPOSED NORTH EAST ELEVATION (GAMMA)

2

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Sprint
3730 5TH AVE.
SAN DIEGO, CA 92103

PLANS PREPARED BY:
INFINIGY8
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28435 RANCHO PARADISE BOULEVARD
LAKE FOREST, CALIFORNIA 92531
108.8851-401

CONSULTANT:
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MD7, LLC
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REVISIONS	DATE	BY	REV
DESCRIPTION			
ISSUED FOR CONSTRUCTION	05/14/10	CEL	1

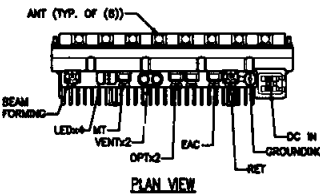
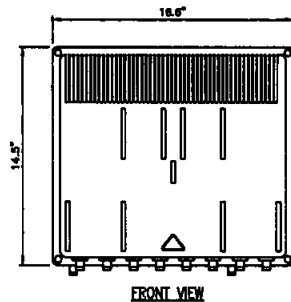
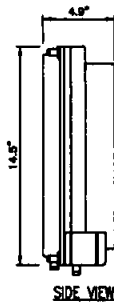
SITE NAME
ETDC ANTENNAS

SITE CARCADE
SD34XC689

SITE ADDRESS
**5510 KIOWA DR.
SAN DIEGO, CA 91942**

SHEET DESCRIPTION
**NORTH EAST
ELEVATIONS**

SHEET NUMBER
A-3.2



ANTENNA MAKE AND MODEL

MANUFACTURER: HOKA
MODEL: F20H Flat RRH 8TR
DIMENSIONS: 14.5"H x 16.5"W x 4.9"D
WEIGHT: 44.1 LBS

NOTES

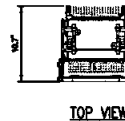
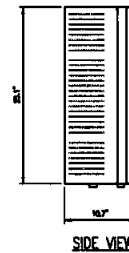
COMPLY WITH MANUFACTURER'S INSTRUCTIONS TO ENSURE THAT ALL RRH RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRH PACKAGES IN THE RAIN.

1900 MHz 4X45W 65 MHz RRH

UNRECORDED
MODEL
WEIGHT

ADDED-UNRECORDED
COMPOSITE DATA WITH OTHER
DATA LBS

RRH CABINET	CLEARANCES MM (INCHES)	COMMENTS
FRONT	914 (36)	INSTALLATION ACCESS
REAR	50 (1.97)	0" CLR W/ MOUNTING BRACKETS
RIGHT	300 (11.82)	AIR FLOW
LEFT	300 (11.82)	AIR FLOW
TOP	300 (11.82)	AIR FLOW
BOTTOM	355 (14)	CONDUIT ROUTING



REMOTE RADIO HEAD (RRH #1)

NO SCALE

1

REMOTE RADIO HEAD (RRH #2)

NO SCALE

2

800 MHz RRH

UNRECORDED
MODEL
WEIGHT

ADDED-UNRECORDED
COMPOSITE DATA WITH OTHER
DATA LBS

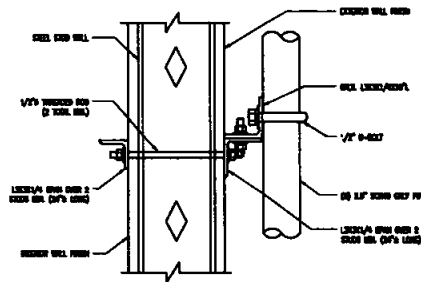
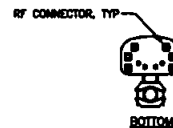
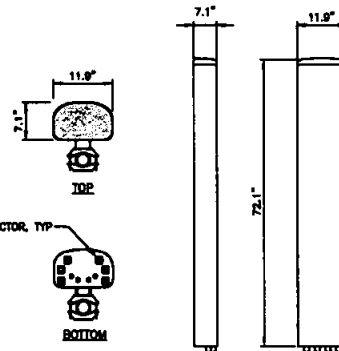
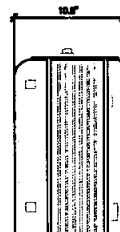
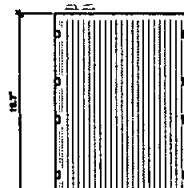
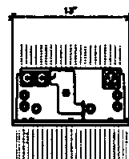
PHYSICAL DIMENSIONS (DIMENSIONS)
SIZE: 16.7" (17.1" H) x 11.9" (12.1" W) x 7.1" (7.3" D)
WEIGHT: 28.0 LBS (28.5 LBS)
FREQUENCY RANGE: 800MHz - 850MHz (1.25 / 0.125) - 0.125 MHz
CHANNEL POWER (Typ): 40W
RECEIVED POWER (Typ): 1W
ANTENNA RESISTANCE: 7/16 IN POLE
-40 TO +60 (AIR SOLAR LOADING), +60 (DIRECT SOLAR LOADING)
SUPPLY AND 1.0

UNRECORDED
MODEL COMPOSITE DATA WITH OTHER
DATA LBS
POWER SUPPLY: -40 VDC
POWER CONSUMPTION: +60W TYPICAL

PANEL ANTENNA SPECIFICATION

UNRECORDED
MODEL
WEIGHT

ADDED-UNRECORDED
COMPOSITE DATA WITH OTHER
DATA LBS



FOR STEEL STUD WALLS

REMOTE RADIO HEAD (RRH #3)

NO SCALE

3

PANEL ANTENNA #1 SPECIFICATIONS

NO SCALE

4

WALL MOUNTING ASSEMBLY DETAIL

NO SCALE

5

PLANS PREPARED FOR:

Sprint
3730 5TH AVE.
SAN DIEGO, CA 92103

PLANS PREPARED BY:

INFINIGY8
FROM ZERO TO INFINITY
the solutions are endless
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CALIFORNIA 92630
JOB #667-001

CONSULTANT:

mcl
MCT, LLC
10890 WEST OCEAN AVE D/E #800
SAN DIEGO, CA 92130
888.777.7883

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REVISIONS	DESCRIPTION	DATE	BY	REV
1	ISSUED FOR CONSTRUCTION	05/14/08	CL	0

SITE NAME

ETDC ANTENNAS

SITE CASCADE

SD34XC689

SITE ADDRESS

5510 KIOWA DR.
SAN DIEGO, CA 91942

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET NUMBER

D-1

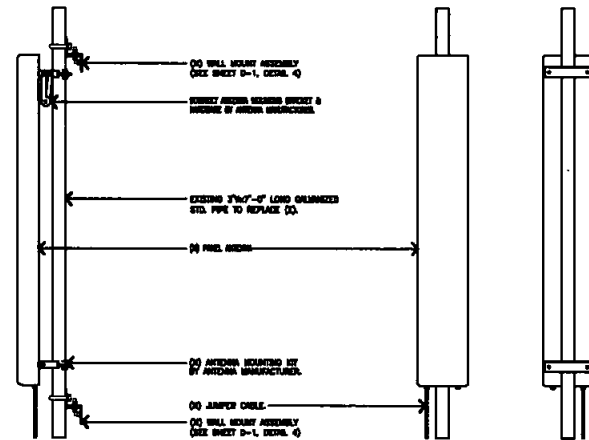
CHE DEK FLEX-GRATE SURTO
WALL AND FLOOR MOUNT ASSEMBLY
P/N: 7400
Z-PURPLE L = 20.6"
WIDTH = 7.625"



NO SCALE

1

REAR VIEW



ANTENNA MOUNT DETAIL

NO SCALE

2



NO SCALE

3

DETAIL NOT USED

NO SCALE

4

Sprint
3730 5TH AVE.
SAN DIEGO, CA 92103

PLANS PREPARED BY

INFINIGY8

FROM ZERO TO INFINIGY
the solutions are endless

26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CALIFORNIA 92638
108 @551-001

CONSULTANT.

md7

MD7, LLC
10870 WEST OCEAN AVE. D8 6000
SAN DIEGO, CA 92130
858.799.7850

ENGINEERING LICENSE: _____

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DESCRIPTION	DATE	BY	REV
ISSUED FOR CONSTRUCTION	02/14/19	CR	0

SITE NAME _____

ETDC ANTENNAS

SITE CASCADE: _____

SD34XC689

SITE ADDRESS: _____

5510 KIOWA DR.
SAN DIEGO, CA 91942

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET NUMBER 2

D-2

