FA #: 15061987

PACE #: MRANM032166

**JEMEZ SPRINGS** SITE NAME:

ADDRESS: 17816 HIGHWAY 4

**JEMEZ SPRINGS, NM 87025** 



### **PROJECT INFORMATION**

SITE NAME: JEMEZ SPRINGS SITE NUMBER: NML02659A SITE ADDRESS 17816 HIGHWAY 4 JEMEZ SPRINGS, NM 87025 JURISDICTION: JEMEZ SPRINGS COUNTY: SANDOVAL TOWER OWNER

LATITUDE: 35.771535 LONGITUDE: -106.688797 CONSTRUCTION TYPE: OCCUPANCY:

1-011-105-503-050 PROPOSED USE: UNMANNED TELECOMMUNICATION

PROPERTY OWNER:

MELVIN L. JOHNSON SR 106 KEIRA CT CORRALES, NM 87048 (505) 899-0246

AT&T PROJECT MANAGER:

ANTHONY V. DROSI PROJECT MANAGER-ALTERNATE

BUILD MODEL AT&T MOBILITY 7337 TRADE ST., RM 3684 SAN DIEGO, CA 92121-4202 OFFICE: (858) 886-1255 MOBILE: (858) 337-7968

APPLICANT:

SAC WIRELESS ON BEHALF OF AT&T KRISTINA ROSS (720) 490-2592 kristina.ross@nokia.com

### **PROJECT TEAM**

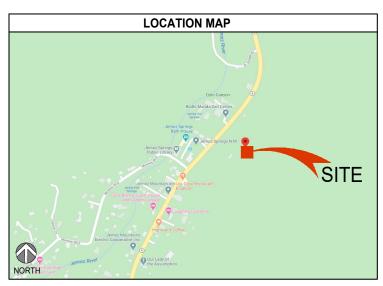
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PLANNING/ZONING CONSULTANT: NOKIA

KRISTINA ROSS (720) 490-2592

kristina.ross@nokia.com

CONSTRUCTION MANAGER: LARRY HILL PHONE: (505) 604-1906 EMAIL: larry.hill.ext@sacw.com







TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN NEW MEXICO CALL NEW MEXICO 811

TOLL FREE: 1-800-321-2537 OR

NEW MEXICO STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE (DAY OF THE CALL NOT INCLUDED)

### **SCOPE OF WORK**

### AT&T PROPOSES TO:

- NEW 62'-0" MONOPINE TOWER ON NEW CONCRETE FOOTING
- INSTALL (2) NEW AT&T PANEL ANTENNAS
- INSTALL (2) NEW AT&T RADIOS (AHLBA)
- INSTALL (2) NEW AT&T RADIOS (AHFIB)
- INSTALL (1) NEW AT&T ANTENNÀ MOUNTS W/ MOUNTING PIPES
- INSTALL (1) NEW AT&T ANTENNA COLLAR MOUNT W/ MOUNTING PIPES
- INSTALL (1) NEW AT&T DC12 SURGE SUPPRESSOR
- INSTALL (1) NEW AT&T DC9 SURGE SUPPRESSOR
- INSTALL (1) NEW AT&T FIBER TRUNK 24 PAIR CABLE
- INSTALL (3) NEW AT&T DC TRUNK CABLES
- INSTALL (1) NEW AT&T DELTA 2-BAY EQUIPMENT CABINET
- INSTALL (1) NEW AT&T ICE-BRIDGE
- INSTALL (1) NEW AT&T CONCRETE EQUIPMENT PAD
- INSTALL (1) NEW AT&T H-FRAME
- INSTALL (1) NEW AT&T METER W/ MAIN SERVICE BREAKER
- INSTALL (1) NEW AT&T ELECTRICAL PANEL
- INSTALL (1) NEW AT&T FIBER BOX
- INSTALL (1) NEW AT&T GENERATOR RECEPTACLE INSTALL (1) NEW AT&T OUTDOOR GFCI OUTLET

- COMMNET PROPOSES TO:
  REMOVE EXISTING COMMNET 62'-0" MONOPOLE TOWER
- INSTALL (1) PROPOSED COMMNET ICE BRIDGE
- INSTALL (2) PROPOSED COMMNET ANTENNA MOUNTS W/ MOUNTING PIPES
- INSTALL (1) PROPOSED COMMNET ANTENNA COLLAR MOUNT RELOCATE (1) EXISTING COMMNET ETTA BOX
- RELOCATE (4) EXISTING COMMNET RADIOS (R8882)
- RELOCATE EXISTING COMMNET ANTENNAS ON NEW MONOPOLE TOWER, PER PLAN

## **DRIVING DIRECTIONS**

DIRECTIONS FROM ALBUQUERQUE INTERNATIONAL SUNPORT:

- HEAD EAST ON SUNPORT BLVD
  USE THE MIDDLE LANE TO STAY ON SUNPORT BLVD
- SLIGHT RIGHT TO STAY ON SUNPORT BLVD
- KEEP LEFT TO STAY ON SUNPORT BLVD USE THE LEFT LANE TO TURN SLIGHTLY LEFT TO STAY ON SUNPORT BLVD
- USE THE LEFT LANE TO MERGE ONTO SUNPORT LOOP SE
- KEEP LEFT TO CONTINUE ON SUNPORT BLVD
- USE THE RIGHT 2 LANES TO TURN RIGHT TO MERGE ONTO I-25 N TOWARD I-40 N/DOWNTOWN/SANTA FE, MERGE ONTO I-25 N USE THE RIGHT 2 LANES TO TAKE EXIT 242 FOR NM-165 E/PLACITAS TOWARD US-550
- W/BERNALILLO, CONTINUE ONTO US-550 N, TURN RIGHT ONTO NM-4 E DESTINATION WILL BE ON THE RIGHT

### SPECIAL NOTES

- ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT CARRIER CONSTRUCTION INSTALLATION GUIDE 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 CONTRACTOR SHALL VERIEV 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 THE SAME
- THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 22"X34" SHEET SIZE & ARE NOT REDUCED IN SIZE. 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	AT&T SECTOR COLOR CODE
T-3.1	COMMNET SECTOR COLOR CODE
T-3.2	SURVEY OF EXISTING SITE
A-1.0	OVERALL SITE PLAN
A-1.1	SITE PLAN
A-2.0	AT&T PROPOSED ANTENNA & EQUIPMENT PLANS
A-2.1	COMMNET PROPOSED ANTENNA & EQUIPMENT PLANS
A-3.0	EXISTING & PROPOSED NORTHEAST ELEVATIONS
A-4.0	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.1	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.2	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.3	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.4	COMMNET EQUIPMENT DETAILS & SPECIFICATIONS
A-4.5	COMMNET EQUIPMENT DETAILS & SPECIFICATIONS
A-4.6	COMMNET EQUIPMENT DETAILS & SPECIFICATIONS
E-1.0	AT&T 1-LINE DIAGRAM & SYMBOLS KEY
G-1.0	AT&T EQUIPMENT & ANTENNA GROUNDING PLANS
G-1.1	COMMNET EQUIPMENT & ANTENNA GROUNDING PLANS
G-2.0	GROUNDING NOTES & DETAILS

### NOT FOR CONSTRUCTION UNLESS APPROVED BY JURISDICTION

### **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 THE SAME.

### **PROJECT NOTES**

FCC: EVERY WIRELESS TELECOMMUNICATIONS FACILITY SHALL MEET THE REGULATIONS OF THE FCC REGARDING PHYSICAL AND ELECTROMAGNETIC INTERFERENCE. THE ONLY SIGNAGE WHICH IS PERMITTED IS THAT WHICH IS REQUIRED BY STATE OR FEDERAL LAW.

### **CODE COMPLIANCE**

- 2015 INTERNATIONAL BUILDING CODE
- 2017 NEW MEXICO ELECTRICAL CODES 2015 NEW MEXICO COMMERCIAL BUILDING CODE
- 2009 NEW MEXICO ENERGY CONSERVATION CODE







BARRINGTON, IL 60010 TELEPHONE: 847.277.0070 FAX: 847.277.0080 ae@westchesterservices.com

### **JOHN M. BANKS ARCHITECT**

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	REVISIONS				
REV.	DATE	DESCRIPTION	INITIALS		
F	08/26/20	90% CD FOR REVIEW	YH		
G	09/02/20	90% CD FOR REVIEW	YH		
Н	09/24/21	90% CD FOR REVIEW	YH		
1	10/04/21	90% CD FOR REVIEW	YH		
J	10/18/21	90% CD FOR REVIEW	YH		
-					

HEREBY CERTIFY THAT THESE PLANS WERE PREPARE BY ME AND UNDER MY DIRECT SUPERVISION AND THAT AM DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF NEW MEXICO.

> FIRSTNET JEMEZ SPRINGS NML02659A 17816 HIGHWAY 4 JEMEZ SPRINGS, NM 87025

> > SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1.0

### GENERAL NOTES:

- THIS FACILITY IS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER NEW MEXICO /INTERNATIONAL BUILDING CODE SECTION 11B-203.5. THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE
- 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. THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD 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 CONFORMING THAT THE WORK MAY BE ACCOMPLISH AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD 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.
- 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 QUESTIONS 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
- 12. 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 MANUFACTURER'S 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 DAMAGED 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 PAINT SPOT, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
- MINIMUM BEND RADIUS OF ANTENNA CABLE SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURER'S RECOMMENDATIONS.
- 20 DAMAGE TO EXISTING STRUCTURES AND/OR LITH THES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT
- ALL CONSTRUCTION IS TO ADHERE TO AT&T'S INTEGRATED CONSTRUCTION STANDARDS UNLESS NEW MEXICO CODE IS MORE STRINGENT
- THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE WITH THE NEW MEXICO BUILDING STANDARDS CODE. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISH WORK WILL NOT COMPLY WITH THE REFERENCED CODE ON SHEET T-1.0. A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK
- SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK.

  23. GENERAL CONTRACTOR TO ENSURE THAT ALL BUILDING PENETRATIONS ARE SEALED AND WEATHERPROOFED

### 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 OR ENGINEER OF RECORD AT COMPLETION OF PROJECT.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT OR ENGINEER OF RECORD 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 REMOVING 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 OR ENGINEER OF RECORD FOR RESOLUTION AND INSTRUCTION. AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT OR ENGINEER OF RECORD. 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.

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

### PAINTING NOTES & SPECIFICATIONS:

- ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF
- MANUFACTURER'S SPECIFICATIONS. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN
- COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.
- ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE AT&T CONSTRUCTION MANAGER.
- 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
- FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES
- 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.
- 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 AT&T CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

### B. COATING SYSTEM SPECIFICATIONS

- DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50)
- 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.

ANTENNAS - PAINT SHALL BE VERIFIED WITH MANUFACTURER IF ACCEPTABLE PRIMER - KEM AQUA E61-W525

TOPCOAT - COROTHANE II B65W200/B60V22

### BTS CABINET

PRIMER - KEM AQUA E61-W525

TOPCOAT - COROTHANE II B65W200/B60V22 COAXIAL JUMPER CABLES

PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%

TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

PRIMER - KEM BOND HS B50WZ4, 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/FINISH)

### STAINLESS STEEL

PRIMER - OTM WASH PRIMER, B71Y1

TOPCOATS - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

### PRE-PRIMED STEEL

TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, SS0WZ4

### **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-89 SATIN A-84 GLOSS

### PRIMER - A-100 EXTERIOR ALKYD W009D PRIMER Y-24W20

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 #158-0356 ALL PENETRATIONS INTO FINISHED GLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT

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

### GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING, ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.

- 4. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION, PROVIDE AS REQUIRED.
- ALL FLECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL FLECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), NEW MEXICO BUILDING

### FIRE DEPARTMENT NOTES:

- IF FIRE DEPARTMENT FINAL INSPECTION IS REQUIRED, SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
- A NEW MEXICO /INTERNATIONAL FIRE CODE PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE
- A NEW MEXICO /INTERNATIONAL FIRE CODE PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON
- REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH, IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
- AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM
- BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
- 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
- LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE NEW MEXICO INTERNATIONAL FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE COUNTY BUILDING FIRE INSPECTOR
- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
- EXIT DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
- ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.
- 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. [NEW MEXICO /INTERNATIONAL FIRE CODE 807.31

### CONCRETE:

### PART 1 - GENERAL

WORK INCLUDES FORMWORK, REINFORCEMENT, ACCESSORIES, CAST-IN-PLACE CONCRETE, FINISHING, AND **CURING** 

### INSPECTIONS

- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING BUILDING DEPARTMENT INSPECTIONS REQUIRED FOR THE SCOPE OF WORK BEING PERFORMED.
- ALL REINFORCING STEEL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND UPLOADED TO TALON

### QUALITY ASSURANCE

- A. CONSTRUCT AND ERECT CONCRETE FORM WORK IN ACCORDANCE WITH ACI 301 AND ACI 318
- PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH ACI 301 ACI 318 AND ASTM A184 PERFORM CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH ACI 301, ACI 318, AND ACI 117-90.

SUBMIT CONCRETE MIX DESIGN AND REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY AT&T CONSTRUCTION MANAGER. THE SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF TWO (2) CONCRETE MIX DESIGN INFORMATION SHEETS AND TWO (2) DRAWINGS FOR REINFORCING STEEL

### PART 2 - PRODUCTS

- REINFORCEMENT MATERIALS
- REINFORCEMENT STEEL, ASTM A615, 60KSI YIELD GRADE, REINFORCING STEEL RODS, PLAIN FINISH.
- WELDED STEEL WIRE FABRIC ASTM A185 PLAIN TYPE, IN FLAT SHEETS, PLAIN FINISH.
- CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS, SIZED AND SHAPED FOR SUPPORTS OF REINFORCING FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH ACI 315, AND ACI 318, AND ASTM A184.
- 2. CONCRETE MATERIALS
- A CEMENT: ASTM C150 PORTLAND TYPE
- FINE AND COURSE AGGREGATES: ASTM C33 MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED ONE (3/4) INCH SIZE SUITABLE FOR INSTALLATION METHODS UTILIZED FOR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING
- WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE
- AIR ENTRAINING ADMIXTURE: ASTM C260.
- CONCRETE MIX
- A. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE A.C.I. REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- MIX AND DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94, ALT, 3.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER F4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE, PROVIDE CONCRETE AS FOLLOWS:
- COMPRESSIVE STRENGTH 4000 PSI AT 28 DAYS, SLUMP: 3 INCHES

### REFERENCED DOCUMENTS:

- CONSTRUCTION DRAWINGS: 11/13/2019 BY: B+T GROUP
- SCOPE OF WORK: 02/18/2020 (DATE OF REFERENCE SPREADSHEET)
- SITE VISIT: 11/12/2019





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> > SHEET TITLE

**GENERAL NOTES** 

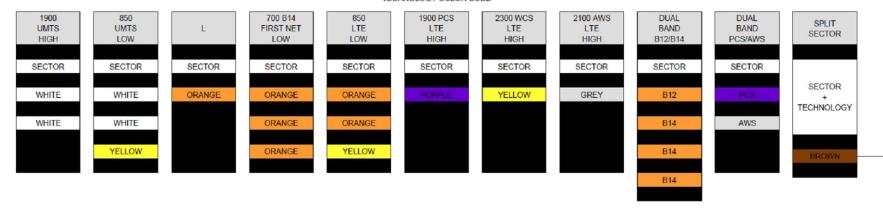
SHEET NUMBER

T-2.0

## DSW (DESERT SOUTHWEST)



### TECHNOLOGY COLOR CODE



COLOR CODE REPRESENTS ALPHA SECTOR, FIRST MAIN LINE - RED 1, WITH LTE700, WCS, AWS, PCS

WCS TX4/RX4

2C/6C-AWS TX4/RX4

2C/5C-PCS TX4/RX4

PORT3

PORT4

TECHNOLOGY/JUMPER QUADPLEXER PORT TAPE BAND COLOR ON MAINLINE COAX 1C-LTE 700 TX1/RX1 PORT1 LTE LOW 700 B12 PORT2 WCS TX1/RX1 WCS 2C/6C-AWS TX1/RX1 PORT3 AWS 2C/5C-PCS TX1/RX1 PORT4 PCS 1C-LTE 700 TX2/RX2 PORT1 LTE LOW 700 B12 WCS TX2/RX2 PORT2 2C/6C-AWS TX2/RX2 PORT3 AWS 2C/5C-PCS TX2/TX2 PORT4 PCS FIRST NET-LTE 700 TX1/RX1 LTE LOW 700 B12 2C/6C-AWS TX3/RX3 PORT3 AWS 2C/5C-PCS TX3/RX3 PORT4 PCS FIRST NET-LTE 700 TX2/RX2 PORT1 LTE LOW 700 B12 PORT2

WCS

AWS

PCS





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1 BROWN STRIPE = SPLIT SECTOR

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SECTOR COLOR CODE

SHEET NUMBER

T-3.0

## COMMNET COLOR CODE

### Cable Color Code Schedule

Technology	Cable Type	Tape Color			Comments	
LTE	Power Trunk	1 Orange Wrap	Additional Power or Fiber Trunks for LTE, Add 1 Additional Wrap			
LTE	Fiber Trunk	1 Orange Wrap	1			
GSM/UMTS	Power Trunk	1 Yellow Wrap	Additional Pov	Additional Power or Fiber Trunks for GSM/UMTS, Add 1 Additional Wrap		
GSM/UMTS	Fiber Trunk	1 Yellow Wrap	1			
CDMA/EVDO	Power Trunk	1 Green Wrap	Additional Pov	ver or Fiber T	runks for CDMA, Add 1 Additional Wrap	
CDMA/EVDO	Fiber Trunk	1 Green Wrap				
UMTS	Power Trunk	1 Purple Wrap	Additional Pov	ver or Fiber T	runks for UMTS, Add 1 Additional Wrap	
UMTS	Fiber Trunk	1 Purple Wrap			70	
EVDO	Power Trunk	1 White Wrap	Additional Pow	ver or Fiber T	runks for DO, Add 1 Additional Wrap	
EVDO	Fiber Trunk	1 White Wrap				
Technology	Cable Type	Tape Color			Comments	
LTE	Power Jumper	1 Orange + Freq+Sector				
LTE	Fiber Jumper	1 Orange + Freq+Sector				
GSM/UMTS	Power Jumper	1 Yellow + Freq+Sector				
GSM/UMTS	Fiber Jumper	1 Yellow + Freq+Sector				
CDMA/EVDO	Power Jumper	1 Green + Freq+Sector				
CDMA/EVDO	Fiber Jumper	1 Green + Freq+Sector				
UMTS	Power Jumper	1 Purple + Freq+Sector				
UMTS	Fiber Jumper	1 Purple + Freq+Sector				
EVDO	Power Jumper	1 White + Freq+Sector				
EVDO	Fiber Jumper	1 White + Freq+Sector				
Frequency	Color		Technology	Cable Type	Tape Color	
700	Black/Blank		LTE	RET	1 Orange + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)	
850	Grey		GSM/UMTS	RET	1 Yellow + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)	
1900	Brown		CDMA/EVDO	RET	1 Green + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)	
			UMTS	RET	1 Purple + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)	
Sector	Cable Type	Color	EVDO	RET	1 White + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)	
X	Coax Jumper	Red				
Y	Coax Jumper	White				
Z	Coax Jumper	Blue				

	RRU P/N Code (Located on RRU tag)
129555731012	ZXSDR R8882 S8500(B6B) 850 CDMA&LTE dual mode
129555731009	ZXSDR R8882 S8500 (B6A) 850 standard CDMA only
129555731011	ZXSDR R8882 S1900(B6B) 1900 CDMA&LTE dual mode
129555731010	ZXSDR R8882 S1900 (B5A) 1900 standard CDMA only

129555731037	850 CDMA R8882	New Single Mode	
129555731035	1900 CDMA R8882	New Single Mode	

129555731023		
129555731024	ZXSDR R8882 S1900(B6B) - 1900 GSM/UMTS	Π

Example: Color Code for LTE for 700 MHz Power or Fiber Trunk - 1 Orange Wrap, 1 Black or Leave Blank (cable color is already black)

Example: Color Code for GSM/UMTS for 850 MHz Power or Fiber Trunk- 1 Yellow Wrap, 1 Grey





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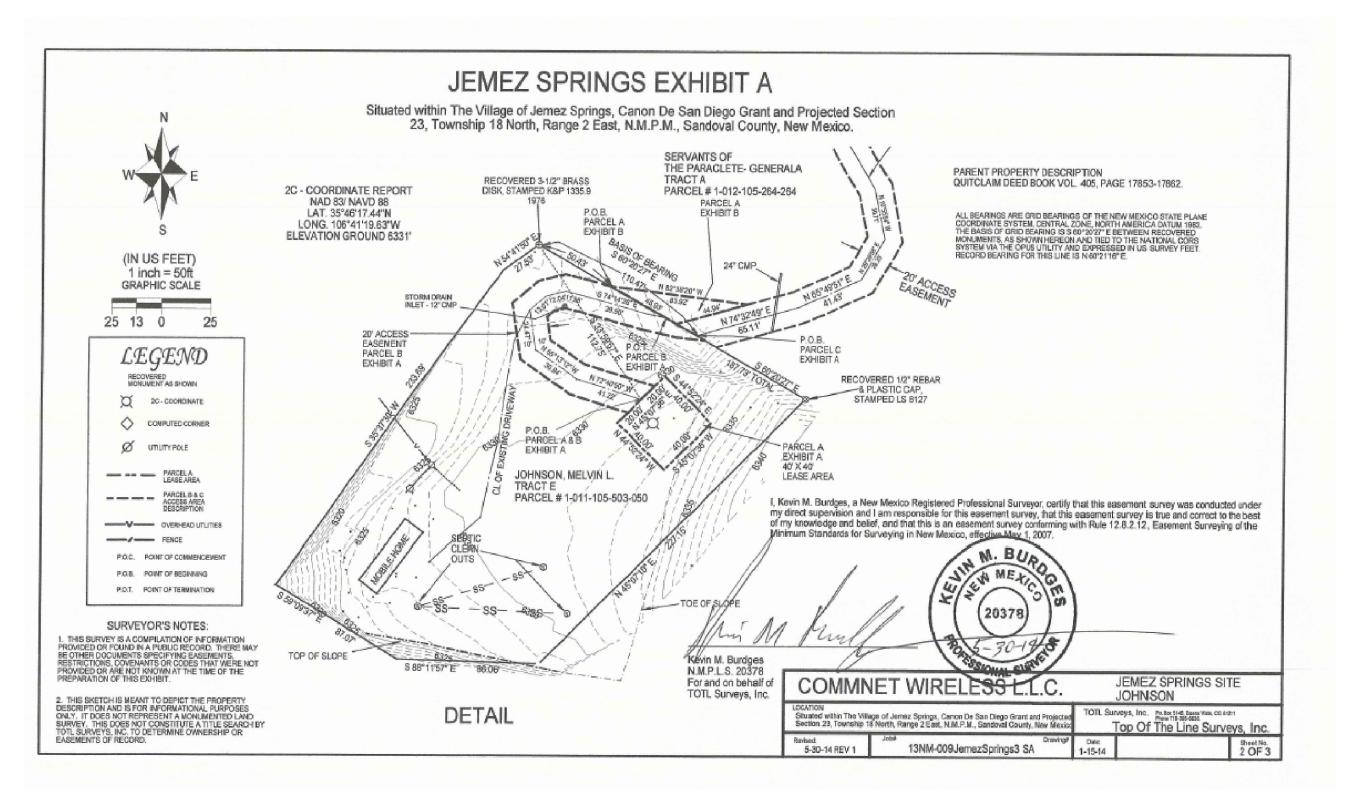
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> > SHEET TITLE

COMMNET SECTOR COLOR CODE

SHEET NUMBER

T-3.1







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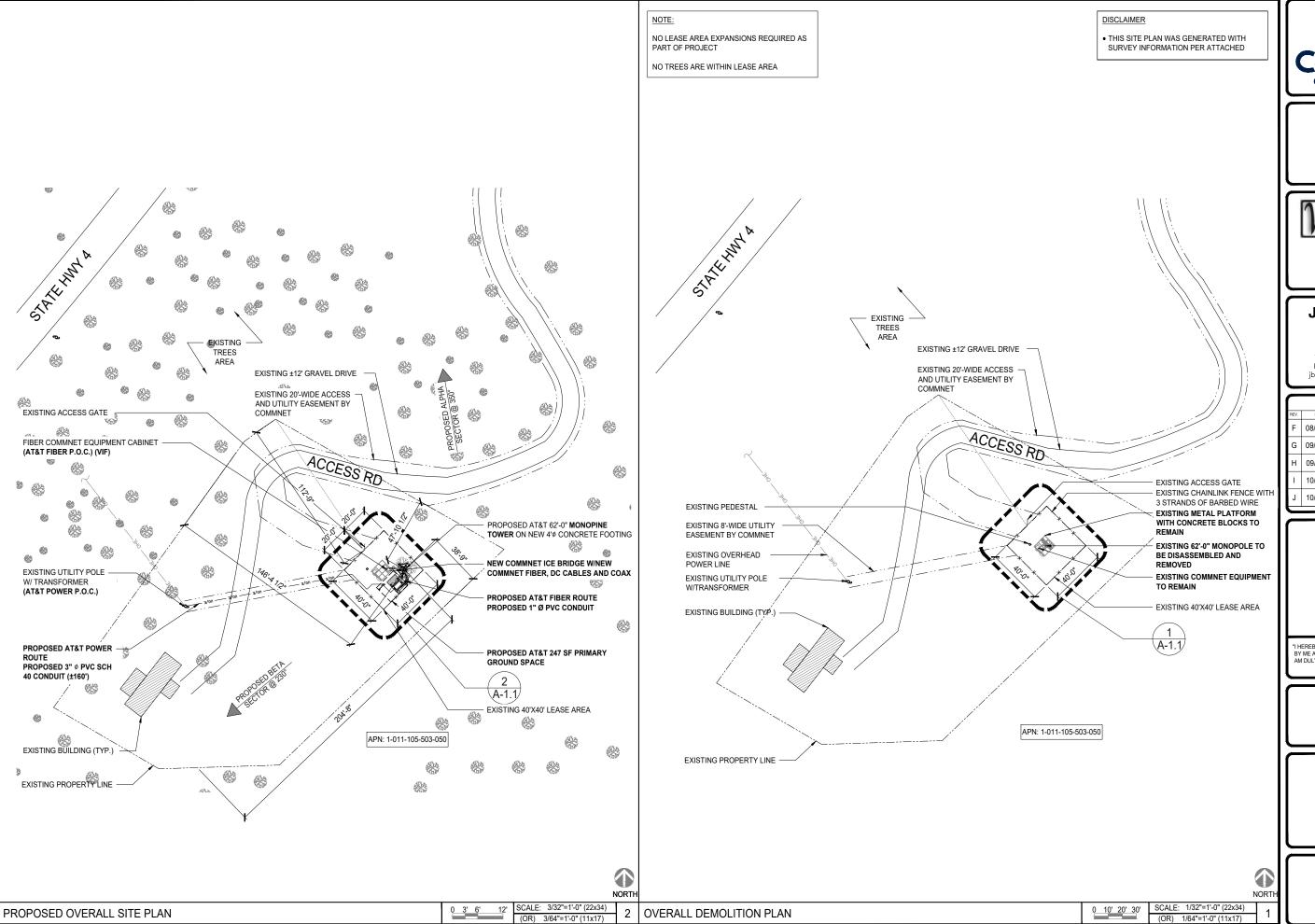
FIRSTNET
JEMEZ SPRINGS
NML02659A
17816 HIGHWAY 4
JEMEZ SPRINGS, NM 87025

SHEET TITLE

SURVEY OF EXISTING SITE

SHEET NUMBER

T-3.2







SHOREHAM PLACE, SUITE

WESTCHESTER SERVICES LLC

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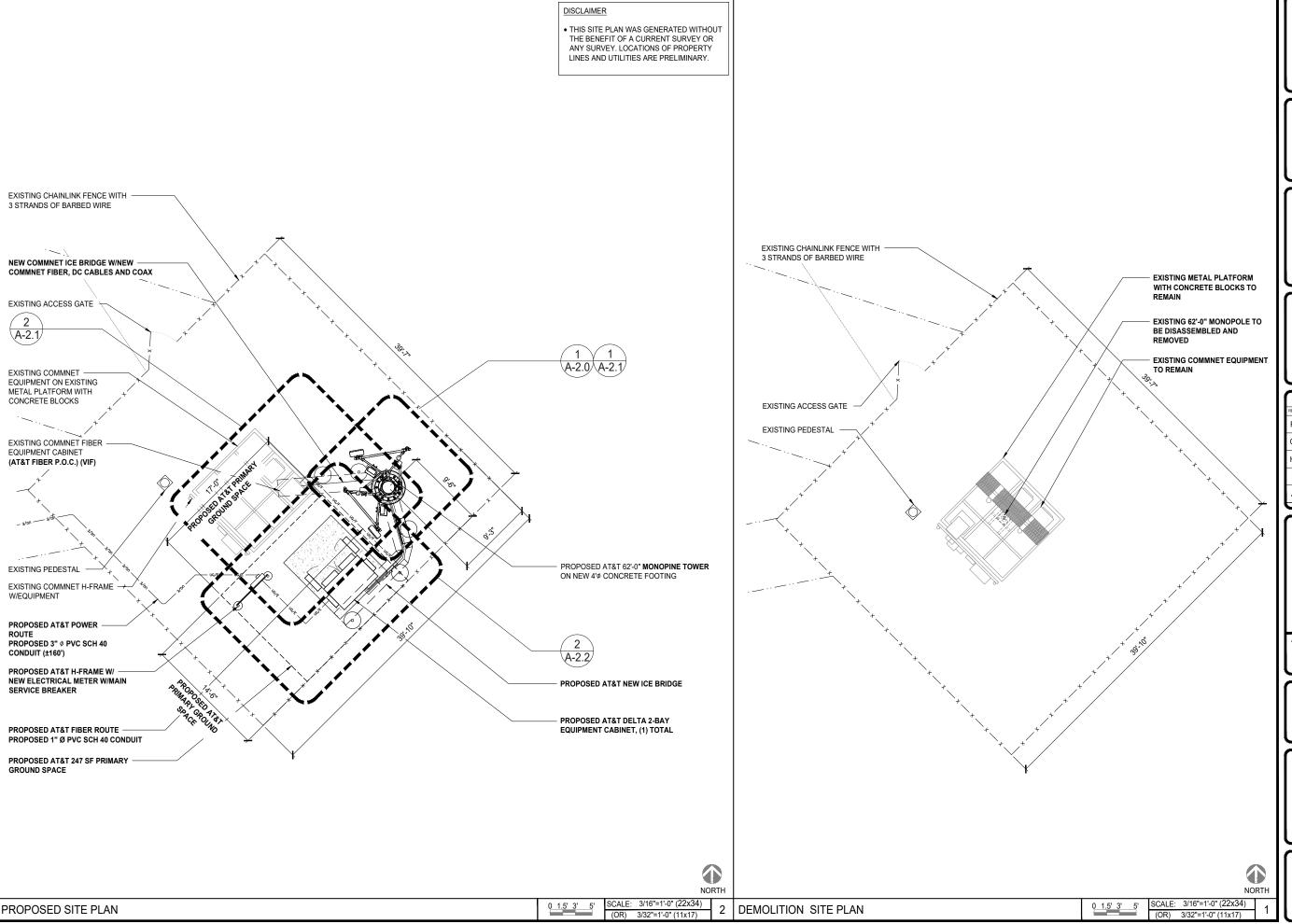
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> > SHEET TITLE

**OVERALL SITE PLAN** 

SHEET NUMBER

A-1.0







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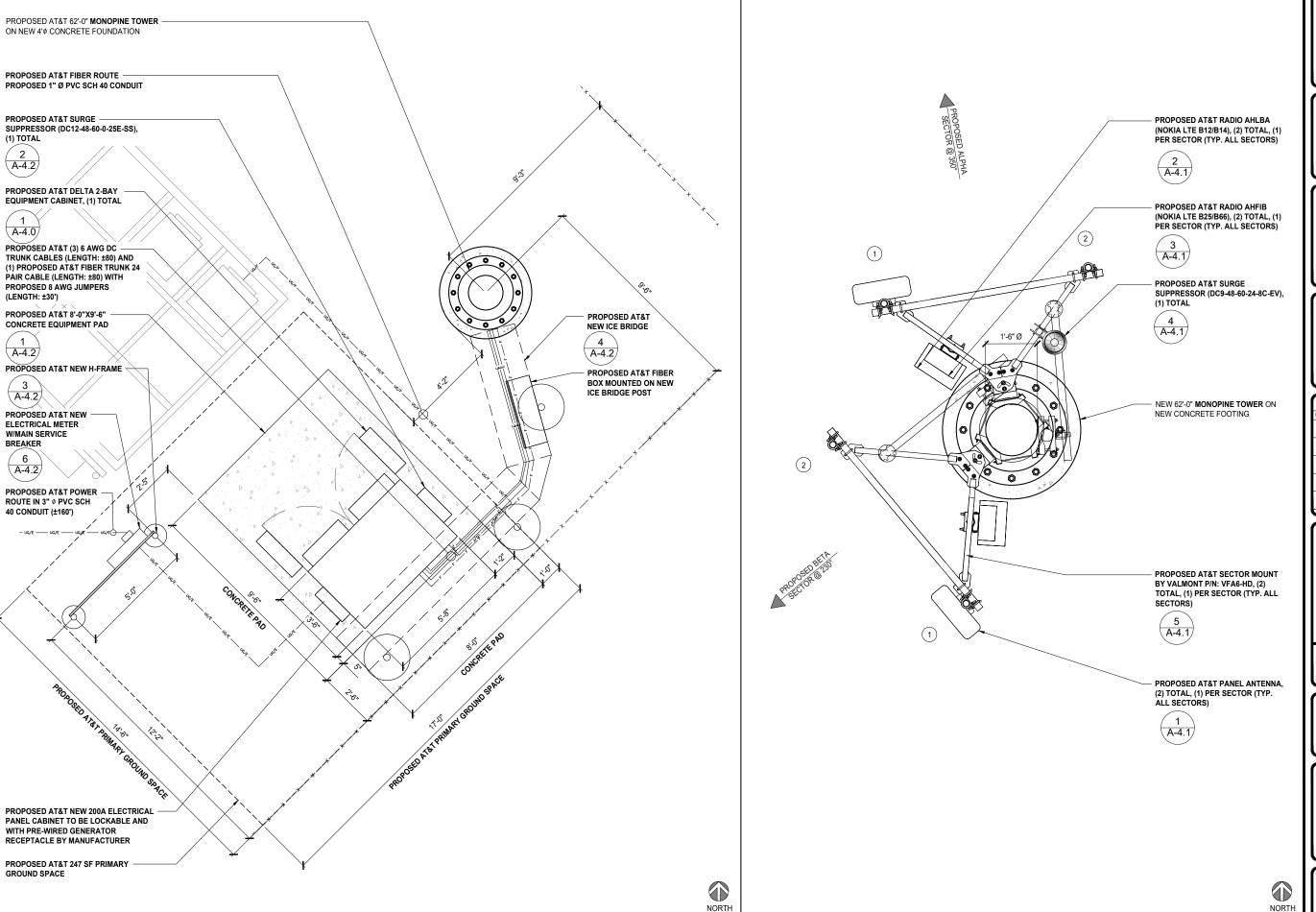
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> > SHEET TITLE

SITE PLAN

SHEET NUMBER

A-1.1



SCALE: 1/2"=1'-0" (22x34)

(OR) 1/4"=1'-0" (11x17)

PROPOSED AT&T EQUIPMENT PLAN

2 PROPOSED AT&T ANTENNA PLAN





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> > SHEET TITLE

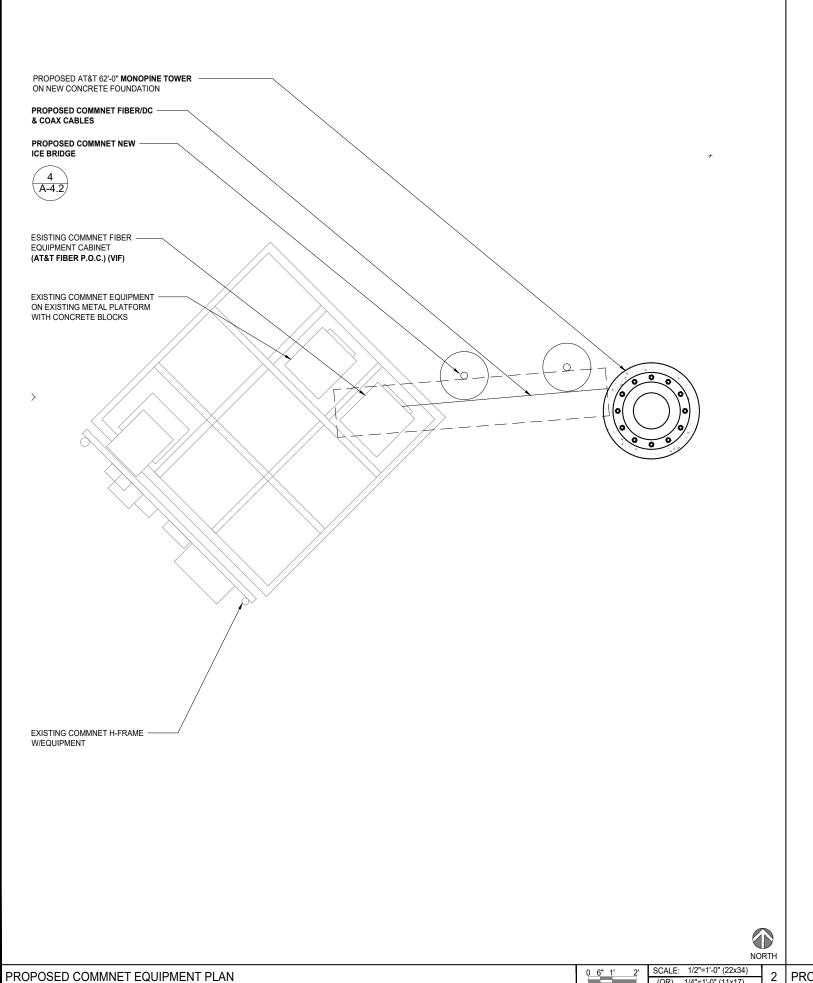
PROPOSED AT&T ANTENNA & EQUIPMENT PLANS

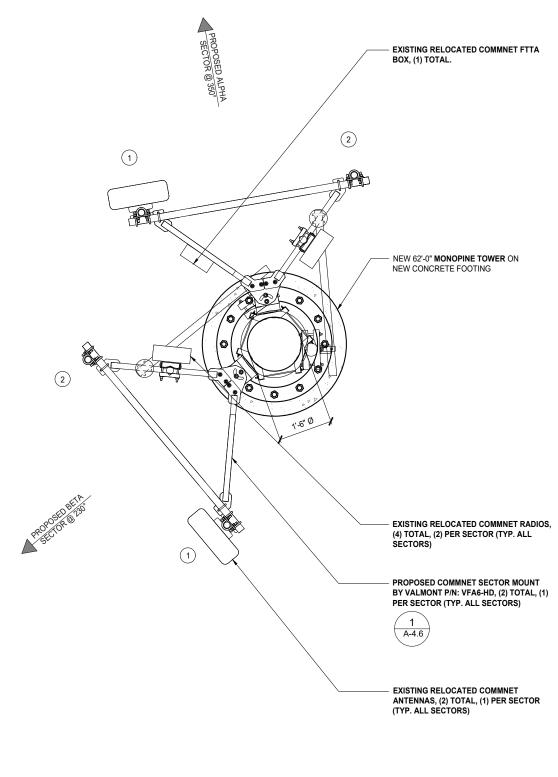
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SCALE: 3/4"=1'-0" (22x34)

(OR) 3/8"=1'-0" (11x17)

A-2.0











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PROPOSED COMMNET ANTENNA & **EQUIPMENT PLANS** 

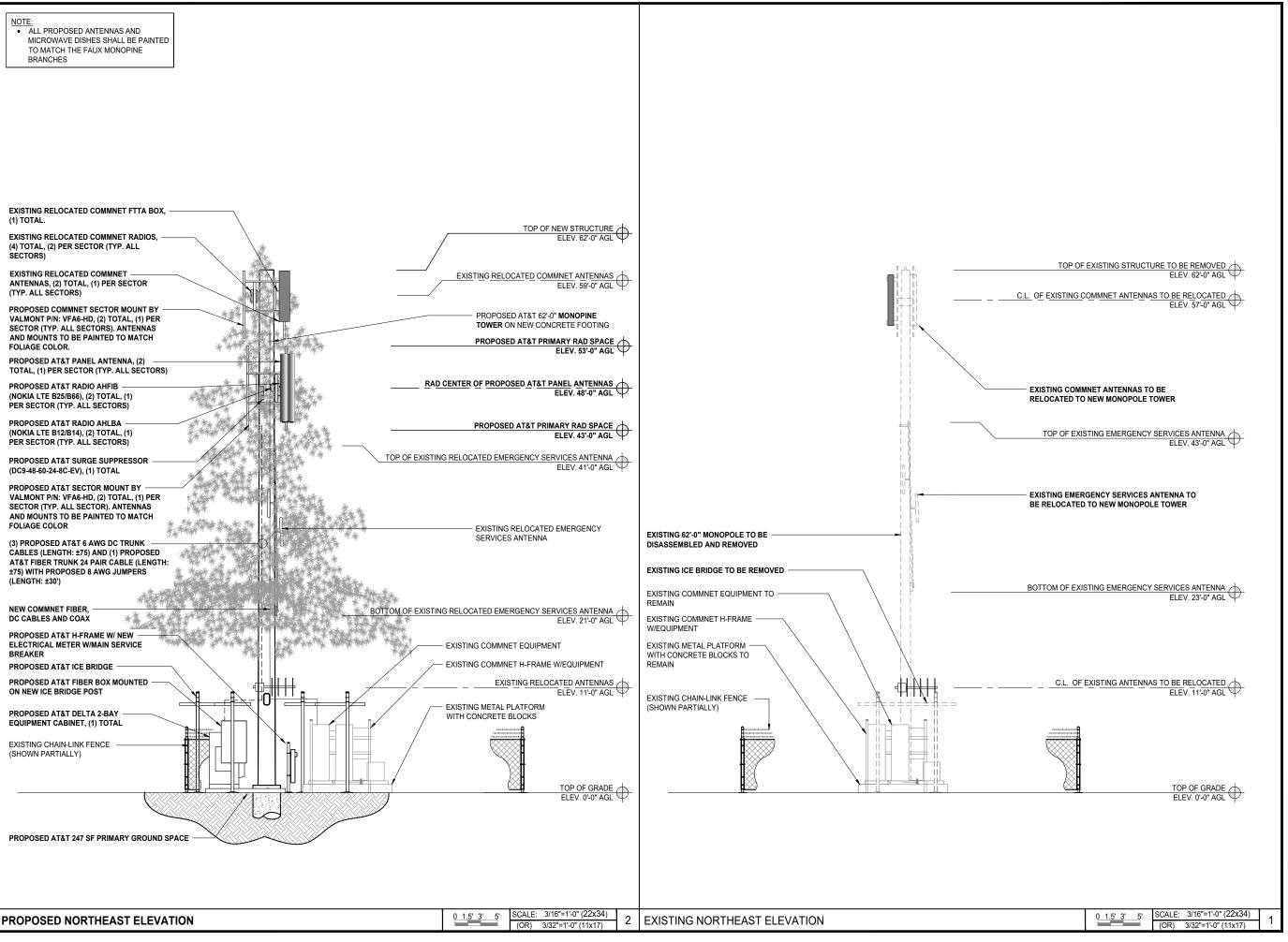
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SCALE: 1/2"=1'-0" (22x34) 2 PROPOSED COMMNET ANTENNA PLAN

SCALE: 3/4"=1'-0" (22x34) (OR) 3/8"=1'-0" (11x17)

NORTH







A Nokia company

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> > SHEET TITLE

EXISTING & PROPOSED NORTHEAST ELEVATIONS

SHEET NUMBER

A-3.0





## ESOF020-HCV02 2-Bay Walk Upto Cabinet (WUC)

### **Product Features**

- · Sealed Multi-bay Equipment and Power Compartment
- · Sealed Battery Compartment
- Corrosion Resistant Aluminum enclosure
- Thermo-siphon HEX cooling
- · R6 Thermal Insulation Material
- Attachment Rails for AC Load Center
- Rear Access Hatches

www.deltaww.com

Optional Dual GPS Antenna Mount



Smarter. Greener. Together.

### **Specifications**

Model	ESOF020-HCV02 Walk Upto Cabinet (WUC)						
1. General							
System cooling capacity	2.5kW Equip Heat Load with Equip Inlet <55C @ 46C ambient						
Dimensions (W x H x D)	68W" x 42"D (50" including HEX) x 80"H (add 6" plinth)						
Protection class	NEMA4						
Door latches	3 point latches (can be pad locked)						
Ground bar	2ea 10-positions						
Lifting Mechanism	4 lifting brackets						
Equipment Compartment	Bay 1 – 23°, 19RU for DC Power System and PDU Bay 2 – 23°, 44RU for equipment						
Battery Compartment	Shelves for 3 strings batteries, designed for: GNB Marathon M12V180FT Enersys SBS190F Enersys SBS170F						
Weight	1860 lbs (Batteries, Power System and Load Equipment excluded)						
Materials:	Enclosure Aluminum AL5052, Inner frames Galvanized steel						
Finish	Powder Paint RAL7032						
Safety	cULus LISTED pending						
2. Environment	Substitutes the test of and substituted but an test for the test for the						
Operating temperature	-40°C to +50°C (-40°F to +122°F)						
Storage temperature	-40°C to +75°C (-40°F to +158°F)						
	65 dBA @ 40C equipment inlet,						
Acoustics	75 dBA @ 55C equipment inlet						
Humidity (relative)	95%, non-condensing (Max.)						
3. Thermal management							
Cooling system	Equipment compartment: 2 200W/°K Thermosiphon HEX						
Heating system	Equipment compartment: 2 1500W DC heaters Battery compartment: 1 1500W DC heater						
4. Equipment							
Arranged for third-party	AC Load Center (not provided)						
equipment:	DC Power System (not provided)						
	Batteries (not provided)						
Cable Entry:							
AC Cable	(2) Trade Size 2" ports						
Bottom Cable	Arranged for (3) Roxtec EzEntry 24/24 multi-port (not provided)						
	Arranged for (3) Roxtec EzEntry 16/16 multi-port (not provided)						
Lower Rear	(4) Trade Size 3" ports						
Upper Rear	Arranged for (1) Valmont E575 port kit (not provided)						
5. Optional Items							
Optional items	NEQ.20115 - Dual GPS Antenna Mast Kit (Delta 3798100742-S) NEQ.20114 - Wave Guide Top Plate (Valmont E575)						
6. Ordering information							
System	NEQ.20212- Cabinet 2-Bay 2-HEX (Delta ESOF020-HCV02)						

Delta Group Website: www.deltaww.com

Product Website:

www.deltapowersolutions.com

United States of America & Canada

Delta Electronics (USA) Inc. 2925 E. Plano Parkway Plano, Texas 75074

Sales

Bryan Kearse

Office 919-767-3836 Cell 919-800-7107 Bryan.Kearse@deltaww.com

Hari Subramanian

Cell 214-415-4977

Hari.Subramanian@deltaww.com

Support

Field Support

1-877-DELTA-08 option 3 (877-335-8208 option 3)

DEUSTPS.Support@deltaww.com

Installation Services

DEUSTPS.Services@deltaww.com

Orders

DEUSTPS.Orders@deltaww.com

Sales

DEUSTPS.Sales@deltaww.com

RMA

DEUSTPS.RMA@deltaww.com

\*All specifications are subject to change without prior notice.

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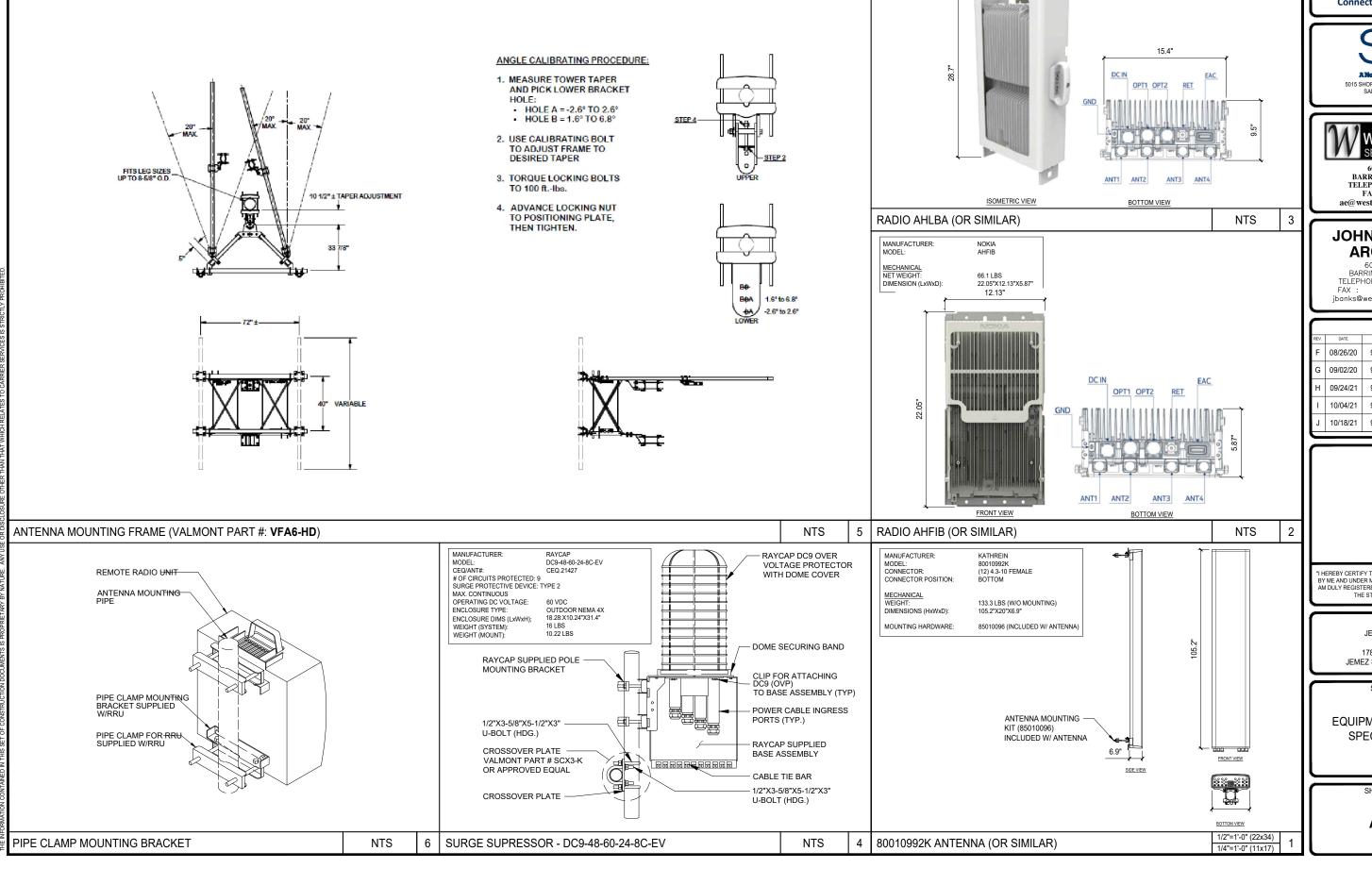
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> > SHEET TITLE

**EQUIPMENT DETAILS & SPECIFICATIONS** 

SHEET NUMBER



MANUFACTURER: MODEL:

MECHANICAL NET WEIGHT: DIMENSION (LxWxD): AHLBA

101.4 LBS 28.7"X15.4"X9.5"





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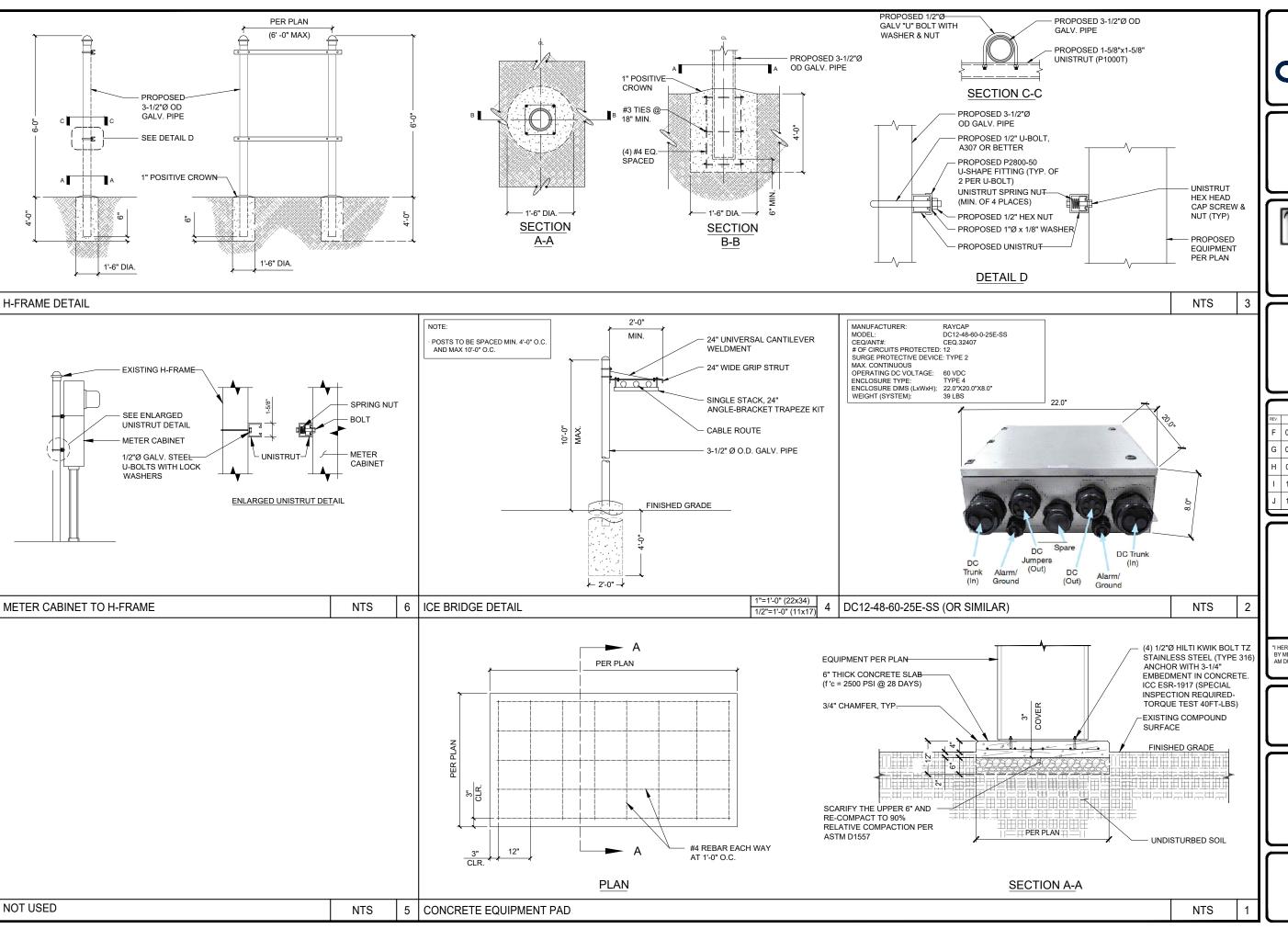
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JEMEZ SPRINGS, NM 87025

SHEET TITLE

EQUIPMENT DETAILS & SPECIFICATIONS

SHEET NUMBER







## WESTCHESTER SERVICES LLC

604 FOX GLEN BARRINGTON, IL 60010 TELEPHONE: 847.277.0070 FAX: 847.277.0080 ae@ westchesterservices.com

### JOHN M. BANKS ARCHITECT

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jbanks@westchesterservices.com

REVISIONS						
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Н	09/24/21	90% CD FOR REVIEW	YH			
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J	10/18/21	90% CD FOR REVIEW	YH			

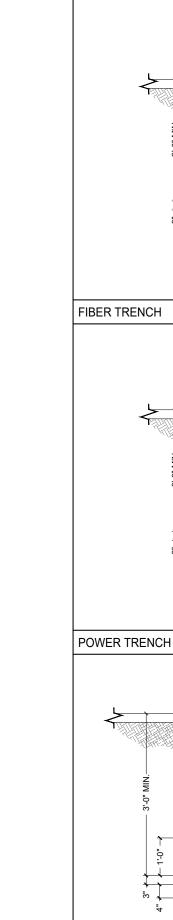
"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARE! BY ME AND UNDER MY DIRECT SUPERVISION AND THAT AM DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF NEW MEXICO."

> FIRSTNET JEMEZ SPRINGS NML02659A 17816 HIGHWAY 4 JEMEZ SPRINGS, NM 87025

> > SHEET TITLE

EQUIPMENT DETAILS & SPECIFICATIONS

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RESTORE SURFACE MATERIAL TO ORIGINAL CONDITION AFTER INSTALLATION OF UTILITIES; GRADE SURFACE TO LEVEL - UNDISTURBED SOIL BACKFILL EARTH TO 90% RELATIVE COMPACTION PER ASTM D1557 UTILITY WARNING TAPE ENTIRE LENGTH OF CONDUIT RUN BACKFILL (SAND OR NATIVE SOIL W/ SAND EQUIVALENT GREATER THAN 30) COMPACT TO 90% RELATIVE COMPACTION PER ASTM D1557 1" PVC SCH 40 FIBER CONDUIT WHERE APPLICABLE (OR PVC SIZING AS REQ'D PER CABLE SIZE) 5-1/2" 🛨 + 5-1/2"

NTS

RESTORE SURFACE MATERIAL TO ORIGINAL CONDITION AFTER INSTALLATION OF UTILITIES; GRADE SURFACE TO LEVEL UNDISTURBED SOIL BACKFILL EARTH TO 90% RELATIVE COMPACTION PER ASTM D1557 UTILITY WARNING TAPE ENTIRE LENGTH OF CONDUIT RUN

BACKFILL (SAND OR NATIVE SOIL W/ SAND EQUIVALENT GREATER THAN 30) COMPACT TO 90% RELATIVE COMPACTION PER ASTM D1557

3" PVC SCH 40 ELECTRICAL CONDUIT WHERE APPLICABLE (OR PVC SIZING AS REQ'D PER POWER PROVIDER DESIGN)

NTS

4-1/2"

4-1/2"

DUAL UTILITY TRENCH

RESTORE SURFACE MATERIAL TO ORIGINAL CONDITION AFTER INSTALLATION OF UTILITIES; GRADE SURFACE TO LEVEL UNDISTURBED SOIL BACKFILL EARTH TO 90% RELATIVE COMPACTION PER ASTM D1557 UTILITY WARNING TAPE ENTIRE LENGTH OF CONDUIT RUN BACKFILL (SAND OR NATIVE SOIL W/ SAND EQUIVALENT GREATER THAN 30) COMPACT TO 90% RELATIVE COMPACTION PER ASTM D1557 1" PVC SCH 40 FIBER CONDUIT WHERE APPLICABLE (OR PVC SIZING AS REQ'D PER CABLE SIZE) - 3" PVC SCH 40 ELECTRICAL CONDUIT WHERE APPLICABLE (OR PVC SIZING AS REQ'D PER POWER PROVIDER DESIGN) 2" + + 1'-1" - + 3"





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2

NTS

FIRSTNET JEMEZ SPRINGS NML02659A 17816 HIGHWAY 4 JEMEZ SPRINGS, NM 87025

SHEET TITLE

**EQUIPMENT DETAILS & SPECIFICATIONS** 

SHEET NUMBER

### Slant +/- 45° Dual Polarized, Panel 63° / 20 dBi

## **Mechanical specifications**

	Longai	1040		12.77	
	Width	154	mm	6.06	in
	Depth	105	mm	4.13	in
4)	Weight	6.8	kg	15	lbs
	Wind Area				
	Front	0.283	m <sup>2</sup>	3.05	ft <sup>2</sup>

Side 0.217 m<sup>2</sup> 2.34 ft<sup>2</sup> Rated Wind Velocity (Safety factor 2.0) >237 km/hr >148 mph

Wind load @ 100 mph (161 km/hr) 460 N 103.4 lbs

372 N Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

### Mounting & Downtilting:

Wall mounted or pole tower mount with mounting brackets.

Mounting bracket kit #26799997 Downtilt bracket kit #26799999
The downtilt bracket kit includes the mounting bracket kit.

### **Electrical specifications**

	Frequency Range	1850-1990 MH
	Impedance	50Ω
3)	Connector	NE, E-DIN
1)	VSWR	≤1.4:1
	Polarization	Slant ± 45°
1)	Isolation Between Ports	< -30 dB
1)	Gain	20 dBi
2)	Power Rating	250 W
1)	Half Power Angle	
	H-Plane	63°
	E-Plane	5°
1)	Electrical Downtilt	0°
1)	Null Fill	5%

### Lightning Protection Direct Ground Patented Dipole Design: U.S. Patent No. 6,597,324 B2

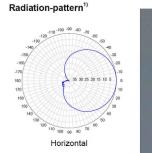
Typical Values
Power Rating limited by connector only.
The indicates an elongated N Connector.
E-DIN indicates an elongated DIN Connector.
The antenna weight listed above does not include the bracket weight.

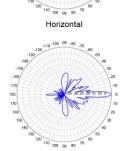
Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

1300 Capital Drive Rockford, IL 61109 Toll-Free (888) 417-9562 Tel. (815) 399-0001 Fax. (815) 399-0156 Email: antel@antelinc.com www.antelinc.com

BXA-185063/12CF \_\_\_

When ordering, replace "\_\_\_" with connector type.







Radiation patterns for all antennas are measured with the antenna

Vertical

Mounting on a metal pole will typically improve the Front-to-

mounted on a fiberglass pole.

Watercut brass feedline assembly for

Watercut brass feedline assembly for consistent performance. Unique feedline design eliminates the need for conventional solder joints in the signal path. A non-collinear system with access to every radiating element for broad band-width and superior performance.

width and superior performance.
 Air as insulation for virtually no internal

Every Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna available with center-fed

CF Denotes a Center-Fed



**Amphenol** Antel, Inc. Revision Date: 1/27/05

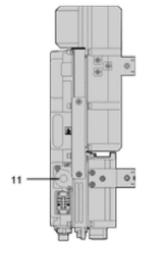
MANUFACTURER: ZTE ZXSDR - R8882 (2\*60W) MODEL: MECHANICAL NET WEIGHT: 23 KG - 50.7 LBS 18.9"X12.6"X5.1" (480\*320\*150 mm) DIMENSION (LxWxD):

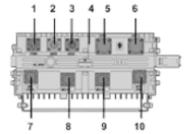
MANUFACTURER: ZTE ZXSDR - R8882 (2\*40W) MODEL:

MECHANICAL NET WEIGHT:

20 KG - 44.09 LBS DIMENSION (LxWxD): 14.96"X12.6"X5.51" (380\*320\*140 mm)









a: Front view b: Side view

c: Bottom view





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> > SHEET TITLE

COMMNET EQUIPMENT **DETAILS & SPECIFICATIONS** 

SHEET NUMBER

A-4.4

3 RADIO ZTE ZXSDR R8882

ANTENNA AMPHENOL ANTEL BXA-185063/12CF

NTS

**NOT USED** 

3/4"=1'-0" (22x34) 3/8"=1'-0" (11x17)

NTS

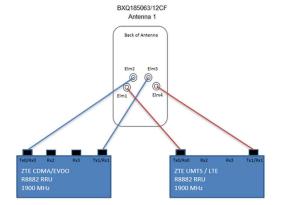
2



						Jemez Springs			NM		Sandoval	
	Commnet Four Corners /					Jeniez Springs			INIV		Sandovai	
FCC #Site Identifier	existing site / Johnson Pro	operty		1								
Engineer	J. Hall			1	Latitude Deg	35	Lat Mir	46	Lat Sec	17.44		35.771511
Date (mm/dd/yy)	m/dd/yy) 8/20/2020			1	Longitude Deg	106	Long Mir	41	Long Sec	19.63	Long Decima	-106.688786
Candidate Sheet Information	formation Upgrade Revision # Rev 8			1					•			•
Modified By	y J. Hall		1	Ground Elev (ft)	6331	Structure Type	monopole			Structure Ht (ft	) 62	
Technology	UMTS	CDMA-1x	EVDO	LTE-FDD								
BTS Vendor	ZTE	ZTE	ZTE	ZTE								
BTS Model / RRU model	BS8900/R8882	BS8900/R8882	BS8900/R8882	BS8900/R8882								
Switch Name	Castle Rock	Castle Rock	Castle Rock	Castle Rock								
Radios on Tower or at Base	Tower	Tower	Tower	Tower								
Feeder Type	Fiber	Fiber	Fiber	Fiber								
Feeder length (ft)	80	80	80	80				This site will cover	the town of Jemez Sprin	ngs from Madrid Road adrid Rd and Redondo		i, and Hwy 4 between
Frequency Band	1900MHz B5 Band	1900MHzC1 Partial	1900MHzC1 Partial	1900MHzC3 Band					nic in the second	and Redolldo	Nu.	
Channel/Carrier Totals Per Sector	1-1-0	1-1-0	2-2-0	1-1-0								
Carrier Bandwidth (LTE)	n/a	n/a	n/a	n/a								
# of Extended Range Radios(of total)	0	0	0	0								
Cell Radius / sector(14,28,75,103)(km)	14-14-0	14-14-0	14-14-0	14-14-0								
мімо	n/a	n/a	n/a	2x2								
Equipment Site Totals	Base Cabinets	RRU's or RRH's	WISP Radios	Antennas	Coax Lines	Fiber Lines	Power Lines	CAT5 Lines	TMA's	FTTA or Squid		
Equipment site rotals	2	4	0	2	0	2	1	0	0	1		
	Si	ite Notes / Project Desc	ription		•				Change History			
						8/20/2020-Addition of	FirstNet antennas and	equipment. Tower he	ight updated. For Comm	net, rad center, fiber l	enghts, spectrum updat	ted, cell radius added.

FirstNet antennas and equipment added on third sheet. Tower drop and swap to accommodate AT&T/FirstNet installation. Replace existing monopole with new 62' monopole. Height of existing pole was measured at 62', new pole must remain the same height. Move RRU's and antennas to new tower.

Coordinates from 2C letter. This sheet contains information for the existing Commnet equipment only!



iagrams below are for representation purposes only, the bottom/back of the antenna/RRU may look slightly different. Follow naming convention





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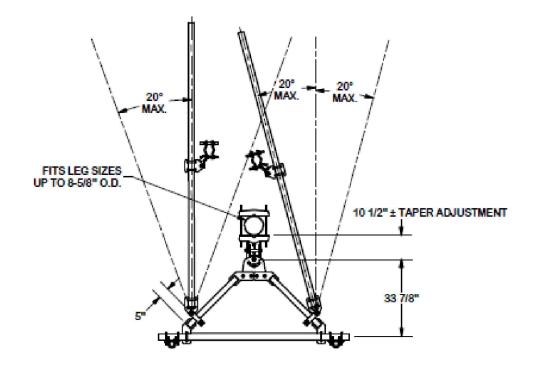
COMMNET EQUIPMENT **DETAILS & SPECIFICATIONS** 

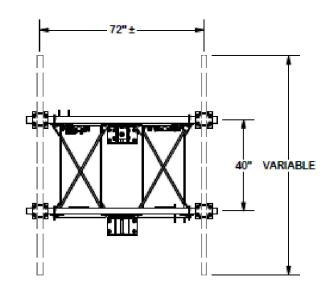
SHEET NUMBER

A-4.5

Sector Information  Note that all port-specific and cabling information will be on next tab in Plumbing Diagram									
					<u> </u>				
Antenna Number	Antenna 1	Antenna 2							
Antenna Model	BXQ185063/12CF								
Antenna Manufacturer	Amphenol								
Antenna Type (panel,omni)	quad pole panel								
RET capable	no								
Antenna Center Line (ft)	60								
Antenna Azimuth	350								
RRU / RRH Mounting Height (ft)	60								
TMA Model	n/a								
Antenna Number	Antenna 1	Antenna 2							
Antenna Model	BXQ185063/12CF								
Antenna Manufacturer	Amphenol								
Antenna Type (panel,omni)	quad pole panel								
RET capable	no								
Antenna Center Line (ft)	60								
Antenna Azimuth									
RRU / RRH Mounting Height (ft)	60								
TMA Model	n/a								
A	0	A-4 0	I	I	I				
Antenna Number Antenna Model	Antenna 1	Antenna 2							
Antenna Manufacturer									
Antenna Type (panel,omni)									
RET capable  Antenna Center Line (ft)									
Antenna Center Line (π)  Antenna Azimuth									-
RRU / RRH Mounting Height (ft)									
TMA Model									
TWA Woder				I					
Antenna Number	Antenna 1	Antenna 2		I					
Antenna Model									
Antenna Manufacturer									
Antenna Type (panel,omni)									
RET capable									
Antenna Center Line (ft)									
Antenna Azimuth									
RRU / RRH Mounting Height (ft)									
TMA Model									1
model		1	1	1	1				L

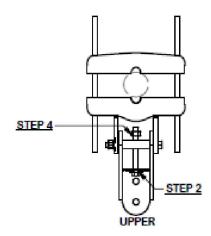
RF DESIGN AND ENGINEERING SHEET NTS 2 | COMMNET PLUMBING DIAGRAM NTS

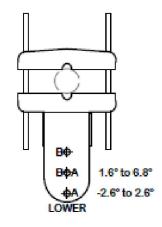


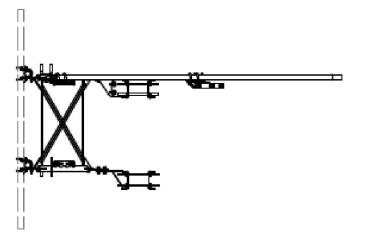


### ANGLE CALIBRATING PROCEDURE:

- MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
  - HOLE A = -2.6° TO 2.6°
  - HOLE B = 1.6° TO 6.8°
- 2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
- TORQUE LOCKING BOLTS TO 100 ft.-lbs.
- ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.











15 SHOREHAM PLACE, SUITE 1

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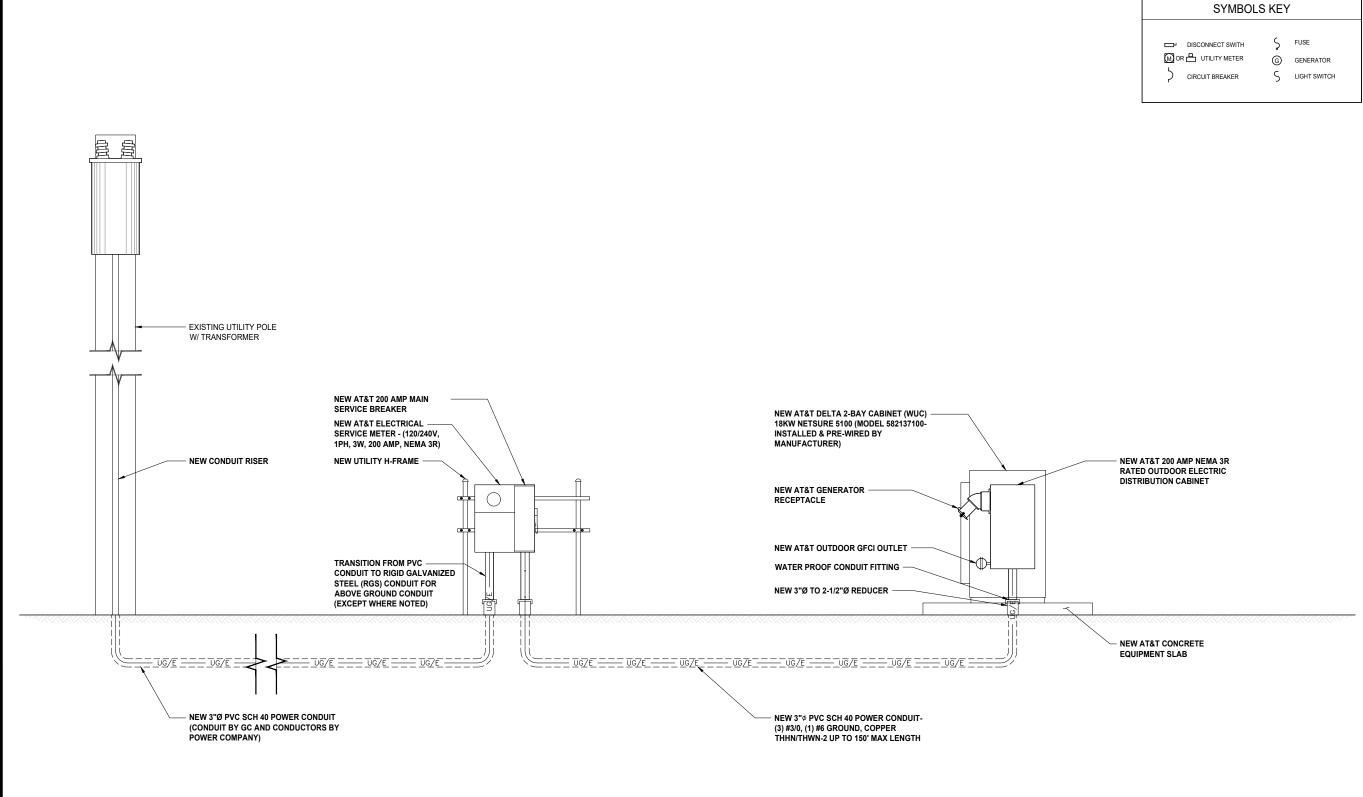
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AT&T 1-LINE DIAGRAM





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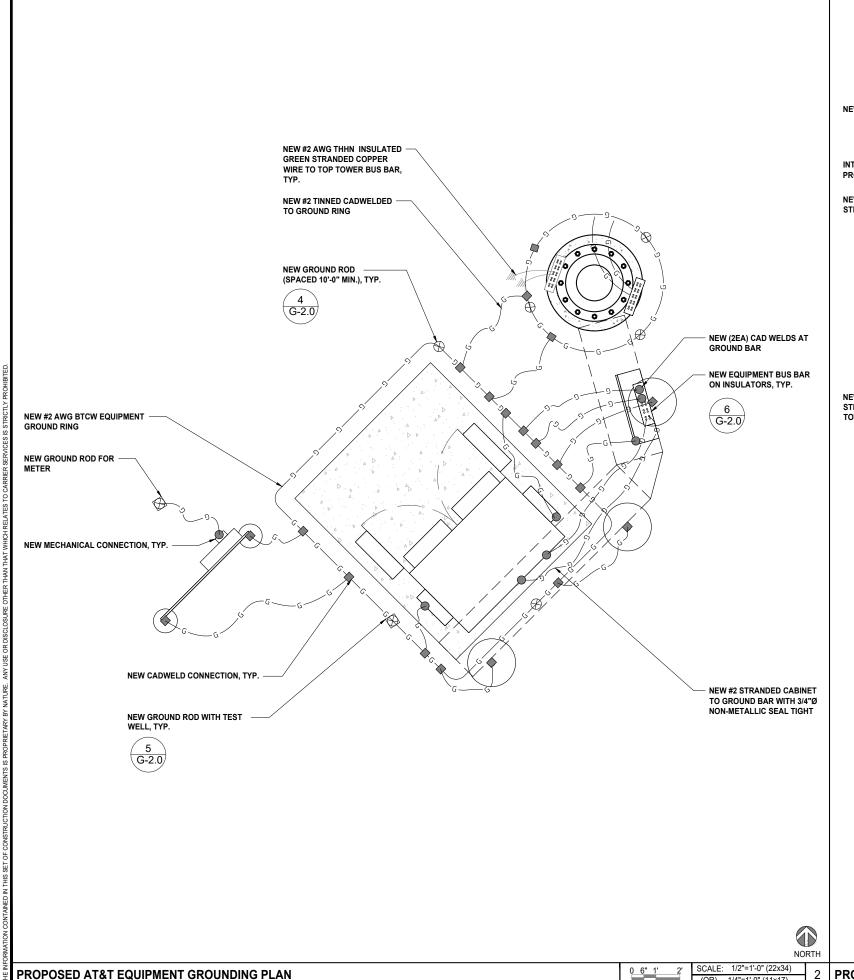
1-LINE DIAGRAM & SYMBOLS KEY AT&T

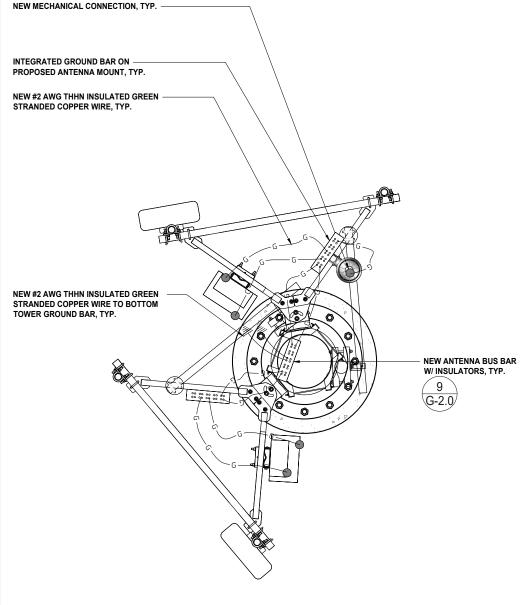
SHEET NUMBER

SCALE

N.T.S.

E-1.0









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AT&T EQUIPMENT & ANTENNA GROUNDING **PLANS** 

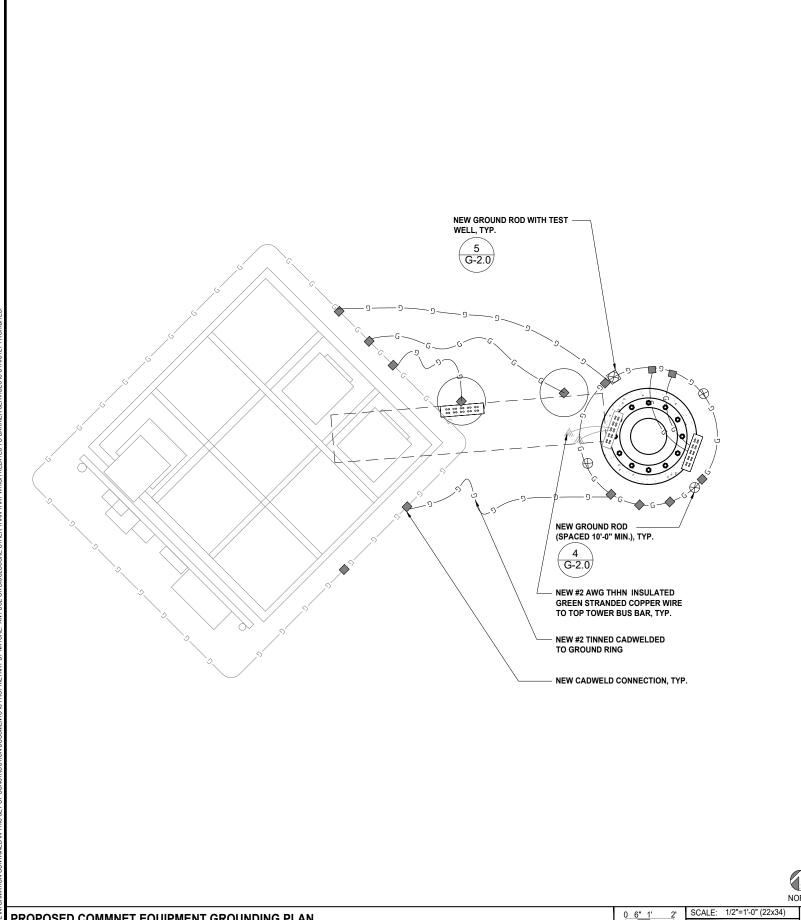
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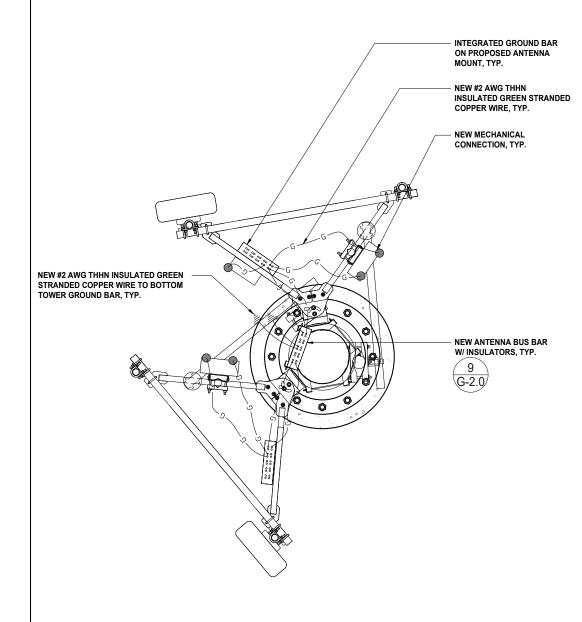
G-1.0

SCALE: 1/2"=1'-0" (22x34) 2 PROPOSED AT&T ANTENNA GROUNDING PLAN

SCALE: 3/4"=1'-0" (22x34) (OR) 3/8"=1'-0" (11x17)

NORTH









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COMMNET EQUIPMENT & ANTENNA **GROUNDING PLANS** 

SHEET NUMBER

G-1.1



2 PROPOSED COMMNET ANTENNA GROUNDING PLAN

SCALE: 3/4"=1'-0" (22x34) (OR) 3/8"=1'-0" (11x17)

NORTH

PROPOSED COMMNET EQUIPMENT GROUNDING PLAN

