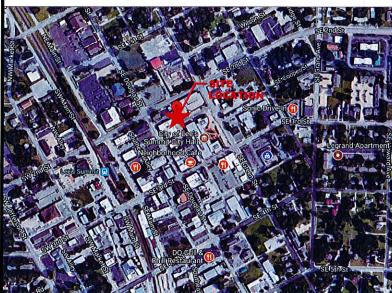
PROJECT INFORMATION: **TOWER INFORMATION** LONG ELEV: SITE TYPE: COUNTY: JURISDICTION CITY OF LEE'S SUMMIT LANDLORD SITE ID #: TOWER SCOPE OF WORK THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY INSTALL (3) ANTENNAS INSTALL (6) RRUS INSTALL (1) FIBER LINE INSTALL (2) MW ANTENNAS INSTALL (2) FIBEAIR IP-20C INSTALL (2) BELDEN 7919A CABLES VICINITY MAP: LOCATION

AERIAL MAP:



SHEET INDEX:

APPLICANT

LANDLORD

CROWN CASTLE 2000 CORPORATE DR

A&E FIRM

IRISH TOWER

CANONSBURG, PA 15317

4603 BERMUDA DRIVE

SUGARLAND, TX 77479

PHONE: (281) 796-2651

PHONE:

38° 54' 49.83"N

94° 22' 34.78"W

MONOPOLE

JACKSON

1,024

6580 SPRINT PARKWAY

OVERLAND PARK, KANSAS 66251

SHEET DESCRIPTION	REVISIO
COVER SHEET & SITE PLAN	A
TOWER ELEVATION & EQUIPMENT DETAILS	A
INSTALLATION SPECS & EQUIPMENT	A
	COVER SHEET & SITE PLAN TOWER ELEVATION & EQUIPMENT DETAILS

CODE COMPLIANCE:

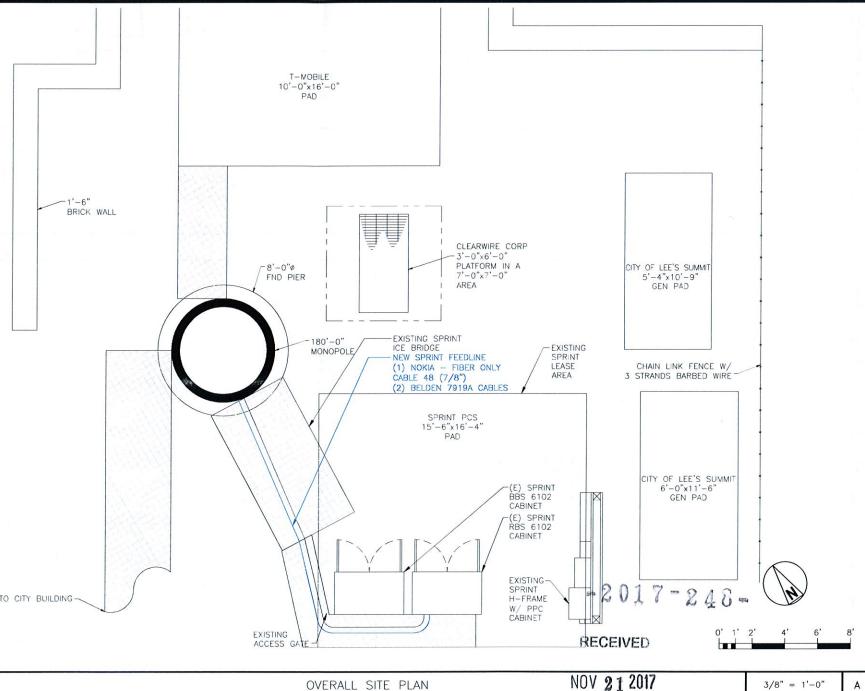
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES, NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES

- INTERNATIONAL BUILDING CODE
- INTERNATIONAL MECHANICAL CODE ANSI/TIA-222 STRUCTURAL STANDARD
- NFPA 780 LIGHTNING PROTECTION CODE
- UNIFORM PLUMBING CODE NATIONAL ELECTRICAL CODE

SPRINT DO MACRO UPGRADE

(REGIONAL PROGRAM)

SITE CASCADE: KC03XC202



OVERALL SITE PLAN

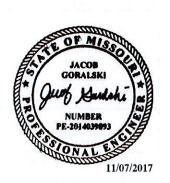


PLANS PREPARED BY:



Voice: (281) 796-2651 | Fax: (866) 598-3136

ENGINEERING LICENSE & SEAL:



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- ILVIOIOIO	DESCRIPTION	DATE	BY	R
PRELIMINARY CD	DESCRIPTION	10/07/17	JAJ	<u> ``</u>
FINAL CD		11/07/17	JAJ	
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				H

KC03XC202

207 SE DOUGLAS LEE'S SUMMIT, MO 64063

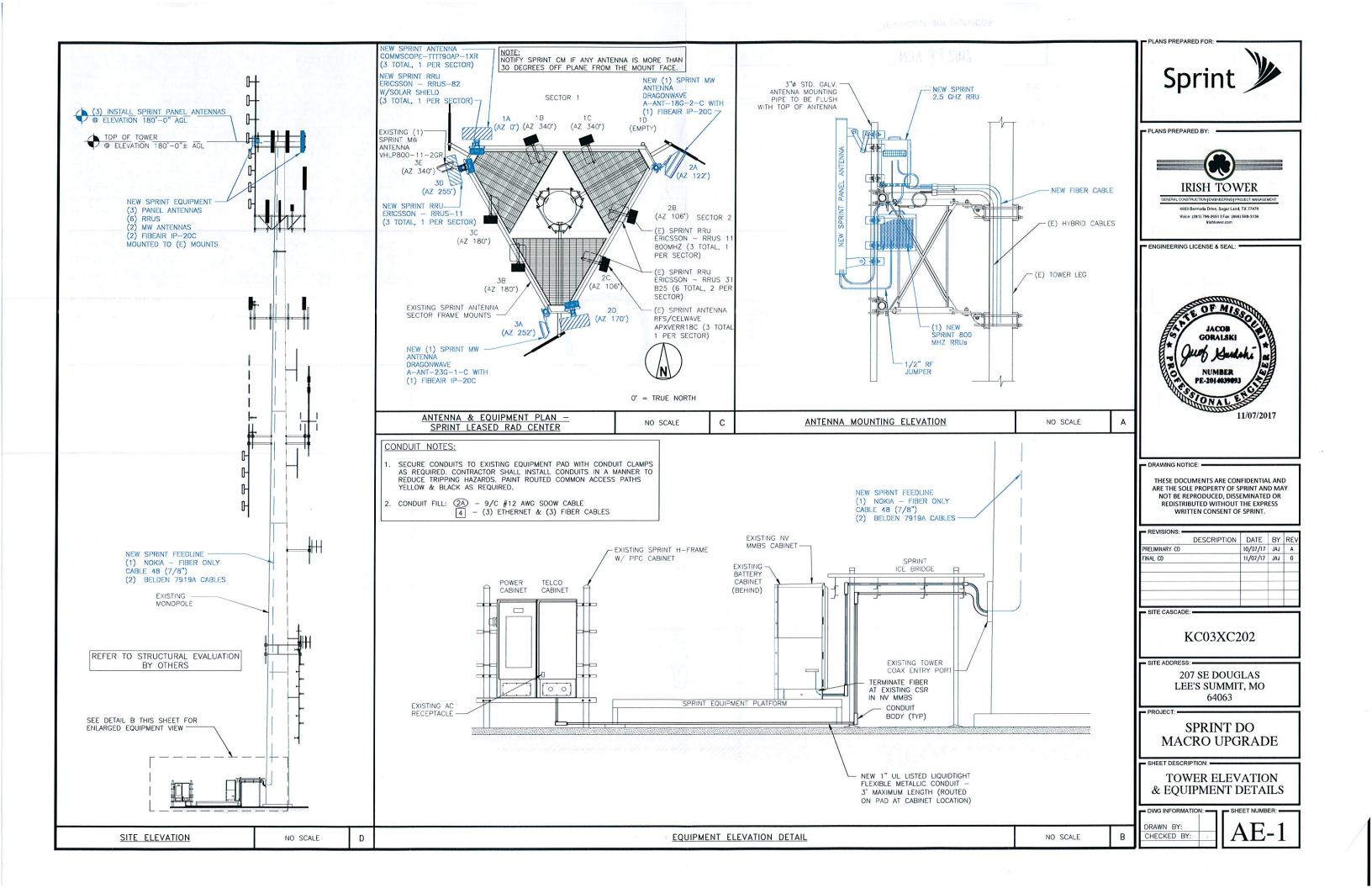
SPRINT DO MACRO UPGRADE

COVER SHEET & SITE PLAN

CHECKED BY:

3/8" = 1'-0"

SHEET NUMBER: T-1



REV. 0 7/25/16

SPRINT CONSTRUCTION SPECIFICATIONS DO-MACRO CELL SITES

- BASIC REQUIREMENTS
 - a. MEET ALL REQUIREMENTS OF JURISDICTIONS
 - b. IF EQUIPMENT FURNISHED BY SPRINT DOES NOT MATCH THE EQUIPMENT LISTED ON THE RFDS AND SHOWN ON THE PERMITTING DRAWINGS, RESOLVE DISCREPANCY THROUGH CCI'S CONSTRUCTION MANAGER AND SPRINT'S POINT OF CONTACT
 - c. CABLE INSTALLATIONS
 - i) CABLE BENDS MUST NOT EXCEED MANUFACTURER'S ALLOWABLE CABLE BEND RADIUS
 - ii) AT RADIOS INSTALL SERVICE LOOPS FOR POWER IF AVAILABLE
 - d. SECURE AND SUPPORT CONDUITS AND CABLES ON NO MORE THAN 48" INTERVALS VERTICAL AND NO MORE THAN 36" HORIZONTAL
- 2. SPRINT FURNISHED EQUIPMENT
- a. INSTALL THE FOLLOWING EQUIPMENT AT LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. VERIFY THE AZIMUTHS WITH THE RFDS
 - i) PANEL ANTENNAS
 - ii) RADIOS
 - iii) FILTERS (IF IT APPLIES)
 - iiii) FIBER JUMPERS
 - iiiii) RF JUMPERS
 - iiiiii) FIBER TRUNK
 - iiiiiii) CABLES
- 3. TOWER INSTALLATIONS
 - a. MEET ALL REQUIREMENTS OF THE TOWER OWNER
 - b. INSTALL FIBER TRUNK UP THE TOWER TO SPRINT'S RAD CENTER
 - c. PROVIDE MISC SUPPORTING HARDWARE
 - d. PROVIDE AND EXTEND DC WIRES IF NEEDED AND LABEL IN THE RBS
- - a. RADIOS: BOND RADIO TO THE TOWER TOP OR SECTOR GROUND BAR WITH #6 GREEN STRANDED
- 5. COLOR CODING
 - a. COLOR CODE CABLES AND CONDUITS AS REQUIRED BY SPRINT STANDARD TS-0200
- 6. TESTING CONSTRUCTION COMPLETE AND COP
- a. SWEEP ALL COAXIAL CABLES ACCORDING TO SPRINT STANDARD TS-0200. PDF AND DAT FILES
- b. PANEL ANTENNA ALIGNMENT USING ELECTRONIC ALIGNMENT TOOL. AZIMUTH +/- 3 DEGREES; PLUMB AND ROLL +/- 1 DEGREE; AAT SCREEN SHOTS REQUIRED FOR COP.
- 7. FIBER SCOPES AND FIBER INSERTION LOSS TEST REQUIRED
- 8. AS BUILT CDS REQUIRED
- 9. PRE AND POST PHOTOS REQUIRED
- 10. PERMITTING CLOSED OUT IF REQUIRED
- 11. NTP1 FORM REQUIRED WITHIN 24 HOURS
- 12. CCI COP

Product Specifications

COMMSCOPE°



TTTT90AP-1XR

8-port Planar Array Antenna, 2496-2690 MHz, 90° HPBW, 1x RET

- · Excellent solution for site sharing and maximizing capacity
- · Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands

1 female | 1 male

MIMO ready

Remote Electrical Tilt (RET) Information

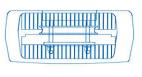
Input Voltage Internal RET High band (1) Power Consumption, idle state, maximum Power Consumption, normal conditions, maximum 10 W Protocol 3GPP/AISG 2.0 (Single RET) RET Interface 8-pin DIN Female | 8-pin DIN Male

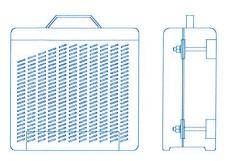
Packed Dimensions

RET Interface, quantity

Length 1706.0 mm | 67.2 in Width 613.0 mm | 24.1 in Depth 226.0 mm | 8.9 in 23.8 kg | 52.5 lb Shipping Weight

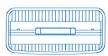
> COMMSCOPE TTTT90AP-TXR SCALE: NOT TO SCALE

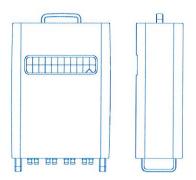




ERICSSON — RRUS 11 800MHz WEIGHT (FULLY EQUIPPED): 50.7 LBS SIZE (HxWxD): 19.7x17.0x7.2 IN.

ERICSSON - RRUS 11 800MHz SCALE: NOT TO SCALE





ERICSSON - RRUS 82 WEIGHT (WITHOUT MOUNTING HARDWARE): 62.1 LBS SIZE (HxWxD): 23.8x15.0x7.0 IN

ERICSSON - RRUS 82 SCALE: NOT TO SCALE

PLANS PREPARED FOR



PLANS PREPARED BY:



4603 Bermuda Drive, Sugar Land, TX 77479 Voice: (281) 796-2651 | Fax: (866) 598-3136

ENGINEERING LICENSE & SEAL:



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PRELIMINARY CD		10/07/17	JAJ	A
FINAL CD		11/07/17	JAJ	0
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SITE CASCADE:

KC03XC202

207 SE DOUGLAS LEE'S SUMMIT, MO 64063

PROJECT:

SPRINT DO MACRO UPGRADE

- SHEET DESCRIPTION: -

INSTALLATION SPECS & EQUIPMENT

DRAWN BY CHECKED BY:

SHEET NUMBER: