



ATC SITE NAME: FIVE POINTS ATC SITE NUMBER: 2543 T-MOBILE SITE NAME: 9JK0230A T-MOBILE SITE NUMBER: 9JK0230A SITE ADDRESS: HWY 441 & I-10 LAKE CITY, FL 32055



LOCATION MAP

T-MOBILE EXCALIBUR ANTENNA AMENDMENT PLAN CONFIGURATION

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION		SHEET INDEX			
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE ADDRESS:	AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	HWY 441 & I-10	TOWER WORK: REMOVE (3) MOUNT(s), (5) ANTENNA(s), (3) TTA(s) AND (6) 1-5/8"	G-001	TITLE SHEET	0	06/29/21	AM
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	LAKE CITY, FL 32055 COUNTY: COLUMBIA	COAX CABLE(s)	G-002	GENERAL NOTES	0	06/29/21	AM
2020 FLORIDA BUILDING CODE, 7TH EDITION	GEOGRAPHIC COORDINATES:	INSTALL (3) MOUNT(s), (3) ANTENNA(s), (6) RRH(s) AND (2) 1.99" HYBRID CABLE(s)	C-101	DETAILED SITE PLAN	0	06/29/21	AM
2. ANSI/TIA-222-H 3. 6TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)	LATITUDE: 30.23820833	EXISTING (1) DISH ANTENNA(s) AND (1) 1-5/8" COAX CABLE(s) TO	C-102	DETAILED GROUND PLAN	0	06/29/21	AM
4. 2017 NATIONAL ELECTRICAL CODE 5. BASIC WIND SPEED: 129 MPH (3-SECOND GUST)	LONGITUDE: -82.63682222	REMAIN	C-201	TOWER ELEVATION	0	06/29/21	AM
6. CITY/COUNTY ORDINANCES	GROUND ELEVATION: 148' AMSL	GROUND WORK: REMOVE (2) LEGACY CABINET(s)	C-401	ANTENNA INFORMATION & SCHEDULE	0	06/29/21	AM
		INSTALL (1) ENCLOSURE 6160 CABINET AND (1) B160 BATTERY	C-501	CONSTRUCTION DETAILS	0	06/29/21	AM
	ATS(s), (1) TELCO(s), (1) GPS(s) AND (1) GENER	EXISTING (1) PANEL(s), (1) SURGE SUPPRESOR(s), (1) CIENA(s), (1)	C-502	CIVIL DETAILS	0	06/29/21	AM
		ATS(s), (1) TELCO(s), (1) GPS(s) AND (1) GENERATOR(s) TO REMAIN	E-501	GROUNDING DETAILS	0	06/29/21	AM
		PROJECT TEAM PROJECT NOTES	R-601	SUPPLEMENTAL			
	TOWER OWNER: APPLICANT:	THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A	R-602	SUPPLEMENTAL			
	AMERICAN TOWER T-MOBILE MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.		R-603	SUPPLEMENTAL			
	10 PRESIDENTIAL WAY 5901 BENJAMIN CENTER WOBURN, MA 01801 DRIVE, SUITE 110 A-B	DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	R-604	SUPPLEMENTAL			
UTILITY COMPANIES	TAMPA, FL 33634 ENGINEER:		R-605	SUPPLEMENTAL			
POWER COMPANY: FLORIDA POWER LIGHT PHONE: (800) 226-3545	ATC TOWER SERVICES, LLC	THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED	R-606	SUPPLEMENTAL			
TELEPHONE COMPANY: BELLSOUTH	3500 REGENCY PKWY STE 100 CARY, NC 27518	CARY, NC 27518 REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF					
PHONE: (800) 252-0803	·						
000	PROPERTY OWNER: DAVID H GOOLSBY JR	TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).					
9198 SW CR 249 JASPER, FL 32052	PROJECT LOCATION DIRECTIONS						
Know what's below. Call before you dig.		FROM I-10 TAKE EXIT #44 SOUTHEAST CORNER OF THE TEXACO TRUCK STOP AT SOUTHEAST CORNER OF I-10 AND HWY 441.					

AMERICAN TOWER® ATC TOWER SERVICES, LLC

3500 REGENCY PARKWAY SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COA: 9053

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV	. DESCRIPTION	BY	DATE
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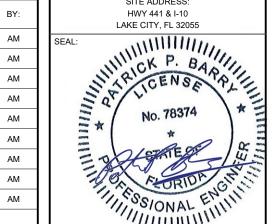
ATC SITE NUMBER: 2543

ATC SITE NAME: **FIVE POINTS**

T-MOBILE SITE NAME: 9JK0230A

SITE ADDRESS:

HWY 441 & I-10



T - Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
CUSTOMER #:	9JK0230A

TITLE SHEET

G-001

REVISION:

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GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - AC/TELCO INTERFACE BOX (PPC)
 - ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - TOWER LIGHTING
 - GENERATORS & LIQUID PROPANE TANK
 - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - ANTENNAS (INSTALLED BY OTHERS)
 - TRANSMISSION LINE
 - TRANSMISSION LINE JUMPERS
 - TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - TRANSMISSION LINE GROUND KITS
 - HANGERS
 - HOISTING GRIPS
 - O. BTS EQUIPMENT
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS GROUNDING RINGS GROUNDING WIRES COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING,
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES. GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION LISING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) ITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK
- PRIOR TO SUBMISSION OF BID CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP. TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- 22. PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH T-MORII F REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS
- 31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR
 MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS
- T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE. NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTEC AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY 33. EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED:
 - ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE
 - CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93 TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION
 - INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS, WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OF ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



ATC TOWER SERVICES, LLC 3500 REGENCY PARKWAY SUITE 100 **CARY, NC 27518** PHONE: (919) 468-0112

COA: 9053

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REV.	DESCRIPTION	BY	DATE
<u></u>	FOR CONSTRUCTION	AM	08/06/21
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ATC SITE NUMBER: 2543

ATC SITE NAME: **FIVE POINTS**

T-MOBILE SITE NAME:

9JK0230A

SITE ADDRESS HWY 441 & I-10

No. 78374

T-Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
CUSTOMER #:	9JK0230A

GENERAL NOTES

SHEET NUMBER:

REVISION

G-002

SITE PLAN NOTES:

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ATS

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GEN

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- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.

GROUNDING TEST WELL

GENERATOR RECEPTACAL

CELL SITE CABINET

HAND HOLE, VAULT

LIGHTING CONTROL

AUTOMATIC TRANSFER SWITCH

LEGEND

BOLLARD

DISCONNECT

ELECTRICAL

GENERATOR

ICE BRIDGE

METER

TELCO

PULL BOX

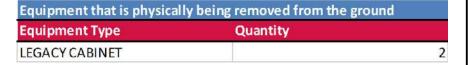
KENTROX BOX

POWER POLE

TRANSFORMER

CHAINLINK FENCE

FIBER



GROUND WORK:

- TECH LIGHTS WILL BE REPOSITIONED IF NECESSARY, PROVIDE LIGHTING INSIDE THE CABINETS.
 EXISTING BTS CABINETS TO BE REMOVED. UTILITY FEEDS
- INCLUDING PPC SHALL REMAIN AND RECONNECT.

PROPOSED

3' X 5' CON. PAD

PROPOSED B160

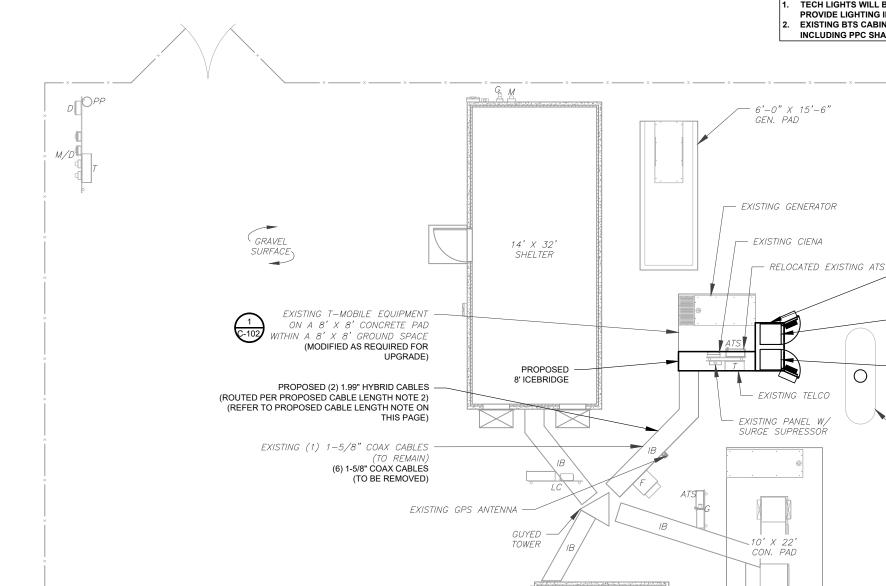
BATTERY CABINET

PROPOSED ENCLOSURE 6160

CABINET

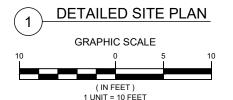
500 GAL. PROPANE TANK

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PROPOSED CABLE LENGTH:

- ESTIMATED LENGTH OF PROPOSED CABLE IS <u>370'</u>. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG)





10' X 14' SHELTER



3500 REGENCY PARKWAY SUITE 100 **CARY, NC 27518** PHONE: (919) 468-0112

COA: 9053

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> SITE ADDRESS: HWY 441 & I-10

No. 78374 III SSIONAL ENTILLI SSIONAL ENG

T-Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
CUSTOMER #:	9JK0230A

DETAILED SITE PLAN

SHEET NUMBER:

C-101

REVISION

Equipment that is physically being removed from the ground			
Equipment Type	Quantity		
LEGACY CABINET	2		

GROUND WORK:

- TECH LIGHTS WILL BE REPOSITIONED IF NECESSARY, PROVIDE LIGHTING INSIDE THE CABINETS.
 EXISTING BTS CABINETS TO BE REMOVED. UTILITY FEEDS INCLUDING PPC SHALL REMAIN AND RECONNECT.



- EXISTING GPS TO REMAIN EXISTING ATS TO BE RELOCATED - EXISTING CIENA TO REMAIN - EXISTING GENERATOR TO REMAIN

EXISTING LEGACY CABINET (TO BE REMOVED)

- EXISTING SURGE SUPPRESOR TO REMAIN

EXISTING GROUND EQUIPMENT



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T-MOBILE SITE NAME: 9JK0230A

SITE ADDRESS: HWY 441 & I-10

No. 78374 III SSIONAL ENGLIS

T - Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
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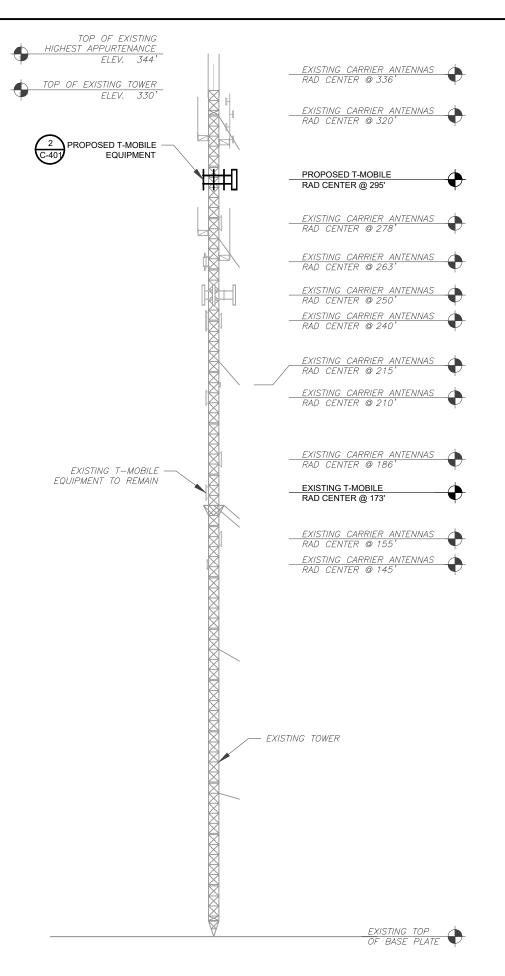
DETAILED GROUND PLAN

SHEET NUMBER:

C-102

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REVISION:



- TOWER NOTE:

 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- 2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



ATC TOWER SERVICES, LLC 3500 REGENCY PARKWAY

> SUITE 100 **CARY, NC 27518** PHONE: (919) 468-0112 COA: 9053

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES, ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
<u></u>	FOR CONSTRUCTION	_AM_	08/06/21
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ATC SITE NUMBER: 2543

ATC SITE NAME: **FIVE POINTS**

T-MOBILE SITE NAME:

9JK0230A

SITE ADDRESS: HWY 441 & I-10 LAKE CITY, FL 32055

No. 78374

*
No. 78374 SEAL:

T - Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
CUSTOMER #:	9JK0230A

TOWER ELEVATION

SHEET NUMBER:

REVISION 0

C-201

TOWER ELEVATION

SCALE: N.T.S.

ALL EXISTING ANTENNA, RADIOS, LINES, ETC. SHALL BE REMOVED. EXISTING MOUNT SHALL BE REPLACED.



PROPOSED SABRE 12' HD PROPOSED FFVV-65C-R3 ANTENNA (1 PER SECTIONATION) SECTOR MOUNT (1 PER SECTOR) (TYP. 3) AZ.= 82° PROPOSED RADIO 4460 B25,B66 (1 PER SECTOR)(TYP.3) BETA ROPOSED RADIO 4480 B71, B85A (1 PER SECTOR)(TYP.3) EXISTING TOWER

FINAL ANTENNA PLAN



EXISTING ANTENNA EQUIPMENT

Equipment Type	Equipment Size	Model	Quantity
PANEL	72x8x2.8	RR65-19-02DP	4
PANEL	75x16.9x7.4	PCSA033-19	1
TΤΑ	10.2x6.7x3.5	ETW190VS12UB (12.1 lb)	3
COAX	15/8"	COAX	6

1.	CONFIRM WITH T-MOBILE REP
	FOR APPLICABLE
	UPDATES/REVISIONS AND
	MOST RECENT RFDS FOR NSN
	CONFIGURATION (CONFIG). GC
	TO CAP ALL UNUSED PORTS.
2.	CONFIRM SPACING OF
	PROPOSED EQUIP DOES NOT
	CAUSE TOWER CONFLICTS
	NOR IMPEDE TOWER CLIMBING
	PEGS.

NOTES

STATUS ABBREVIATIONS

RMV: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'

SECTOR	RAD	AZ	POS	ANTENNA	STATUS	ADD'L EQUIPMENT	STATUS
ALDUA		-	۸1	EEVAL GEG DO MA	ADD	4460	ADD
ALPHA		5	A1	FFVV-65C-R3-V1	ADD	4480	ADD
DETA	205.0	92	D1	FEVAL CEC D2 V4	ADD	4460	ADD
BETA	295.0	82	B1	FFVV-65C-R3-V1		4480	ADD
CANANAA		100	C1	FEVAL SEC. D2 V/1	400	4460	ADD
GAMMA		180	C1	FFVV-65C-R3-V1	ADD	4480	ADD

FINAL FIBER DISTRIBUTION / OVE	FINAL CABLING SUMMARY			
MODEL NUMBER STATUS		COAX	HYBRID	STATUS
-	-	-	(2) 1.99"	ADD
-		(1) 1-5/8"	-	RMN



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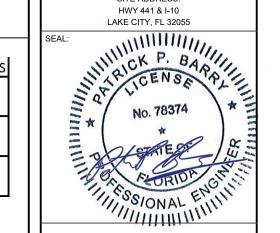
ATC SITE NUMBER: 2543

ATC SITE NAME: **FIVE POINTS**

T-MOBILE SITE NAME:

9JK0230A

SITE ADDRESS: HWY 441 & I-10



T - Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
CUSTOMER #:	9JK0230A

ANTENNA INFORMATION & SCHEDULE

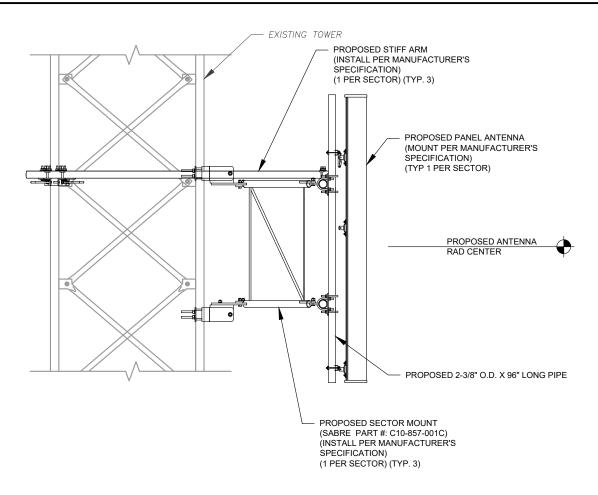
SHEET NUMBER: REVISION:

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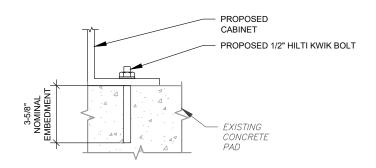
C-401

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ANTENNA AND RF EQUIPMENT SCHEDULE



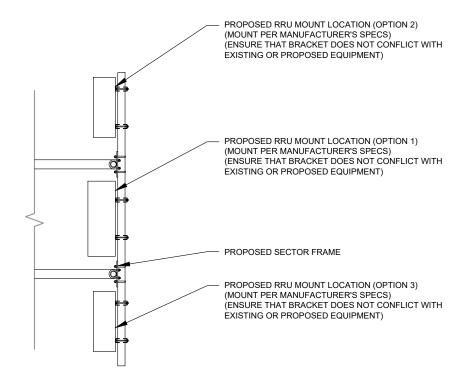
PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)



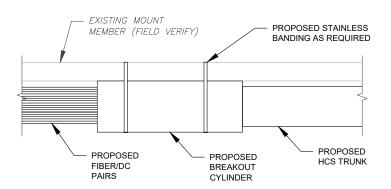
NOTE:

INSTALL HILTLKWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

CABINET ATTACHMENT DETAIL SCALE: NOT TO SCALE



PROPOSED RRU MOUNTING DETAIL - TYPICAL



PROPOSED BREAKOUT CYLINDER ATTACHMENT



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T-MOBILE SITE NAME:

9JK0230A

SITE ADDRESS: HWY 441 & I-10

No. 78374 III SSIONAL ENGLIS

T - Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
CUSTOMER #:	9JK0230A
	ATC JOB NO: CUSTOMER ID:

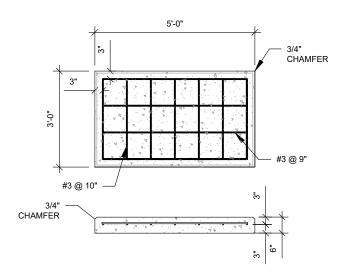
CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-501

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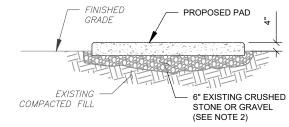
REVISION



PAD NOTES:

- PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.
 REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G-002 & ATC SPEC 033000 FOR CAST-IN-PLACE PADS.





PAD NOTES:

- SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL.
 DELETRIOUS MATERIAL AND ORGANICS SHALL BE REMOVED
- 2. MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2'
- 3. USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
- 4. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.





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T-MOBILE SITE NAME:

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SITE ADDRESS: HWY 441 & I-10

No. 78374 III SSIONAL ENGLIS

T - Mobile sign

DATE DRAWN:	08/06/21
ATC JOB NO:	13667713_G3
CUSTOMER ID:	9JK0230A
CUSTOMER #:	9JK0230A

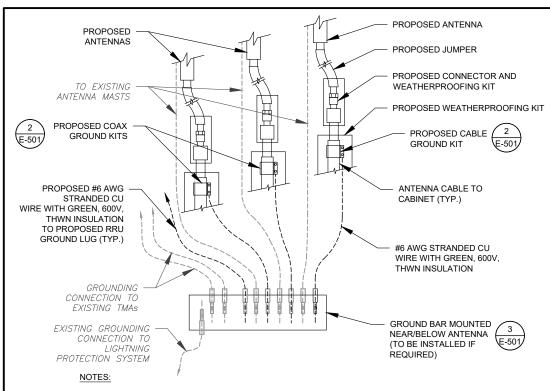
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SHEET NUMBER:

REVISION:

C-502

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- 1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- 2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

TYPICAL ANTENNA GROUNDING DIAGRAM



EXISTING SECTOR GROUND BAR (TYP.)

CABLE GROUND KIT CONNECTION DETAIL

NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT

2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART

ANTENNA CABLE 2 1/2"Ø MAX

GROUNDING KIT PER CABLE

TO GROUND BAR

(ANDREW OR APPROVED EQUAL)

MANUFACTURER'S RECOMMENDATIONS

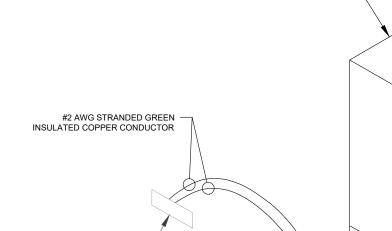
#6 AWG STRANDED COPPER GROUND

WIRE (GROUNDED TO GROUND BAR)

PROPOSED CABINET

TO ANTENNA

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TO EQUIPMENT

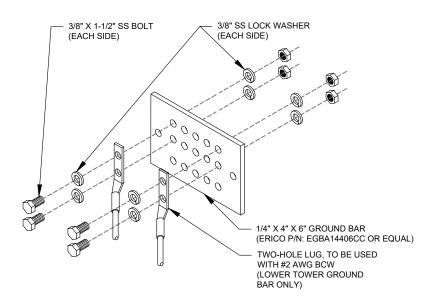
GROUND WIRE DOWN TO GROUND BAR.

ELECTRICAL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER, PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
- FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING REQUIREMENTS, THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION, IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS & PRACTICES

OCPD SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#3 AWG	#8 AWG	1-1/4"
100/2P	2#2 AWG	#8 AWG	1-1/4"
125A/2P	2#1 AWG	#8 AWG	1-1/2"
150A/2P	2#1/0 AWG	#8 AWG	1-1/2"

CABINET GROUNDING DETAIL



GROUND BAR NOTES:

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR TO BE BONDED DIRECTLY TO TOWER.





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9JK0230A

SITE ADDRESS: HWY 441 & I-10

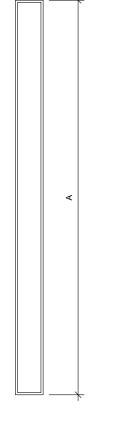
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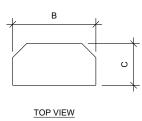
DATE DRAWN: 08/06/21 ATC JOB NO: 13667713 G3 CUSTOMER ID: 9JK0230A CUSTOMER #: 9JK0230A

GROUNDING DETAILS

SHEET NUMBER:

REVISION E-501

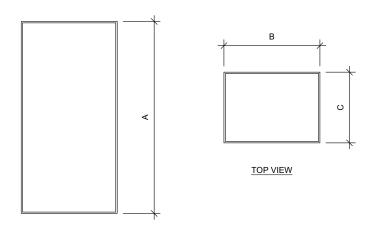




FRONT VIEW

1 ANTENNA SPECIFICATIONS FOR ILLUSTRATIVE PURPOSES ONLY - N.T.S.

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	А	В	С	WEIGHT (LBS)
FFVV-65C-R3-V1	95.9"	25.2"	9.3"	124.6



FRONT VIEW

RRU SPECIFICATIONS FOR ILLUSTRATIVE PURPOSES ONLY - N.T.S.

RRU SPECIFICATIONS					
RRU MODEL	А	В	С	WEIGHT (LBS)	
4460	19.6"	15.7"	12.1"	109.0	
4480	21.8"	15.7"	7.5"	84.0	

SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.



Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of –48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.



CAPACITY	
Rack space user equipment	19U (19" rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR)
	ERS Baseband and Transport units
	Li-lon batteries
	3PP equipment
	Additional power feed available as option
MECHANICAL SPECIFICATION	
Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Power paint NCS 2002-B
Door	Front access
Rack type	19" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder
POWER SYSTEM	
Input voltage	3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC
Input power	<33kW
Output load (-48VDC)	24kW
Total capacity (-48VDC)	31.5kW
AC SPD	Class 2/Type 2
DC SPD	Class 2/Type 2
PSU Slots	9x
Service outlet	Optional
Priority load	8x Circuit Breaker
LLVD 1	6x Circuit Breaker
LLVD 2	6x Circuit Breaker
CB ratings	3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A
Battery Interface	2x Circuit Breaker
Battery Circuit Breaker rating	125A 2pol (200A)
PSU capacity	3500W
30.000	

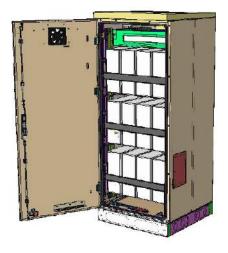
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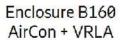
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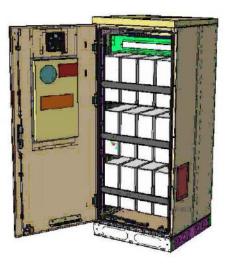
REVISION:

R-602

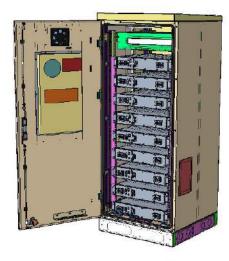
Enclosure B160







Enclosure B160 AirCon + Li-Ion



Enclosure B160 Convection Cooling + VRLA

3

PA1 | 2019-82-03 | Ericsson Confidential | Page 1

Enclosure B160

Capacity

— VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah

Li-Ion: 24U 19" / 23"
 Sodium-Nickel: 3x FIAMM

Electrical specification

DC Output: -48VDC/200ABattery breakers: 2x 125/2p

— Alarms: Door open, Climate failure, MCB Connection

Mechanical specification

— Weight: 134kg

Dimensions:
 63 x 26 x 26 in. (incl. Base frame)

Base frame height: 6 in.

Material: Galvanized steel (180g/m²)
 Color: Powder paint NCS 2002-B

Door: Front accessLocking type: Pad lock / cylinder

Environmental specification

Ingress protection: VRLA/Sodium IP44

Li Ion IDEE

Li-Ion IP55

— Relative humidity: 15-100%

Climate system

Air Conditioner

— Fan type: DC

Cooling capacity: 500W @L35/L35

Convection cooling

Emergency fan

PA1 | 2019-02-63 | Ericsson Confidential | Page 2

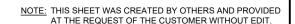
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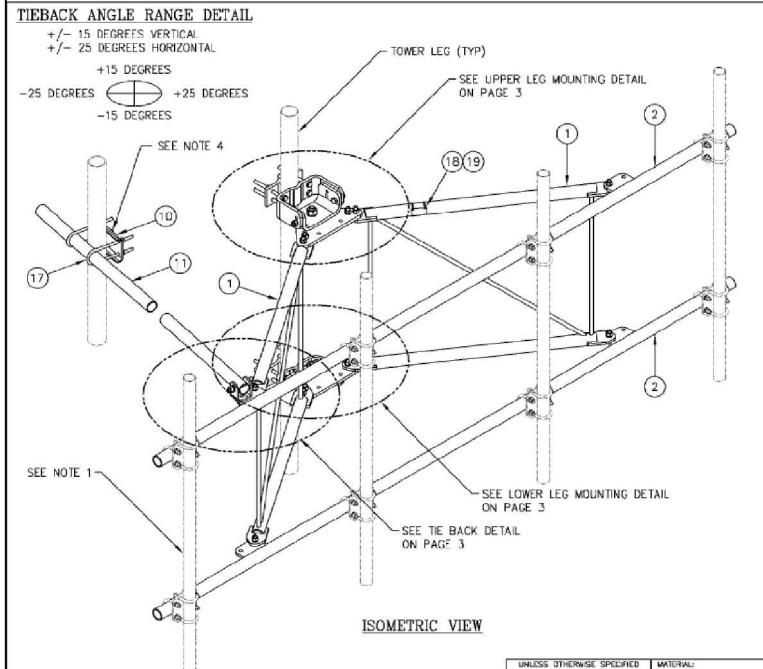
SHEET NUMBER:

R-603

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REVISION:





ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01222	WELDMENT, STANDOFF ARM	126
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03109	PLATE, ROTATING	34
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	1	CS00098	PLATE, TIE BACK SWIVEL	3
10.	1	CS03285	PLATE, TIE BACK CLAMP	4
11.	1	CS03333	PIPE, TIE BACK	38
12.	2	C40026073	BCLT ASSEMBLY, 1 Ø X 3 A325	4
13.	8	C40140004	BCLT ASSEMBLY, 5/8 ø X 8 A307	13
14.	1	C40026033	BOLT ASSEMBLY, 5/8 ø X 4 1/2 A325	1
15.	12	C40026025	BCLT ASSEMBLY, 5/8 ø X 2 1/2 A325	6
16.	5	C40026024	BCLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	3
17.	2	040034183	U-BOLT ASSEMBLY, 1/2 Ø X 2 9/16 C-C	3
18.	1	Z30992001	MOUNT CLASSIFICATION TAG C10857001C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
			TOTAL WEIGHT	462

PACKAGING NOTE

CK00386 INCLUDES ITEMS 1, 3, 4, 5, 6, 7, 12 & 15 (8 QTY) CK00387 INCLUDES ITEMS 2, 8, 9, 10, 11, 13, 14, 15 (4 QTY), 16, 17, 18 & 19

NOTES:

- MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
- 2. QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
- 3. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2" TO 5 9/16" ROUND LEG.
- 4. TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.

Sabre In	TOLERANCES DO NOT APPLY TO RAW MATERIAL	S INCLUDE E IN INCHES IONS ± 1/16" S ± 1/2 DEG. ALS ± .010"	D ARE II RACTION INGLES :	ERANCES: F	
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witten consent of S		DEL ADDED PACKA			2
© 2015 Sobre Comm	S & AEOED TIEBACK ANGLE RANGE DETAIL		_		1
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Sabre Industries Towers and Poles

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В C10857001C 12/22/15 DATE DRAWN BY WRF SCALE CHECKED BY

12' HD V-BOOM ASSEMBLY W/TIEBACK (3' STANDOFF) W/NO ANTENNA MOUNTING PIPES

DRAWING NO. SIZE REV 2 PAGE 1 OF 3 EΚ None

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED

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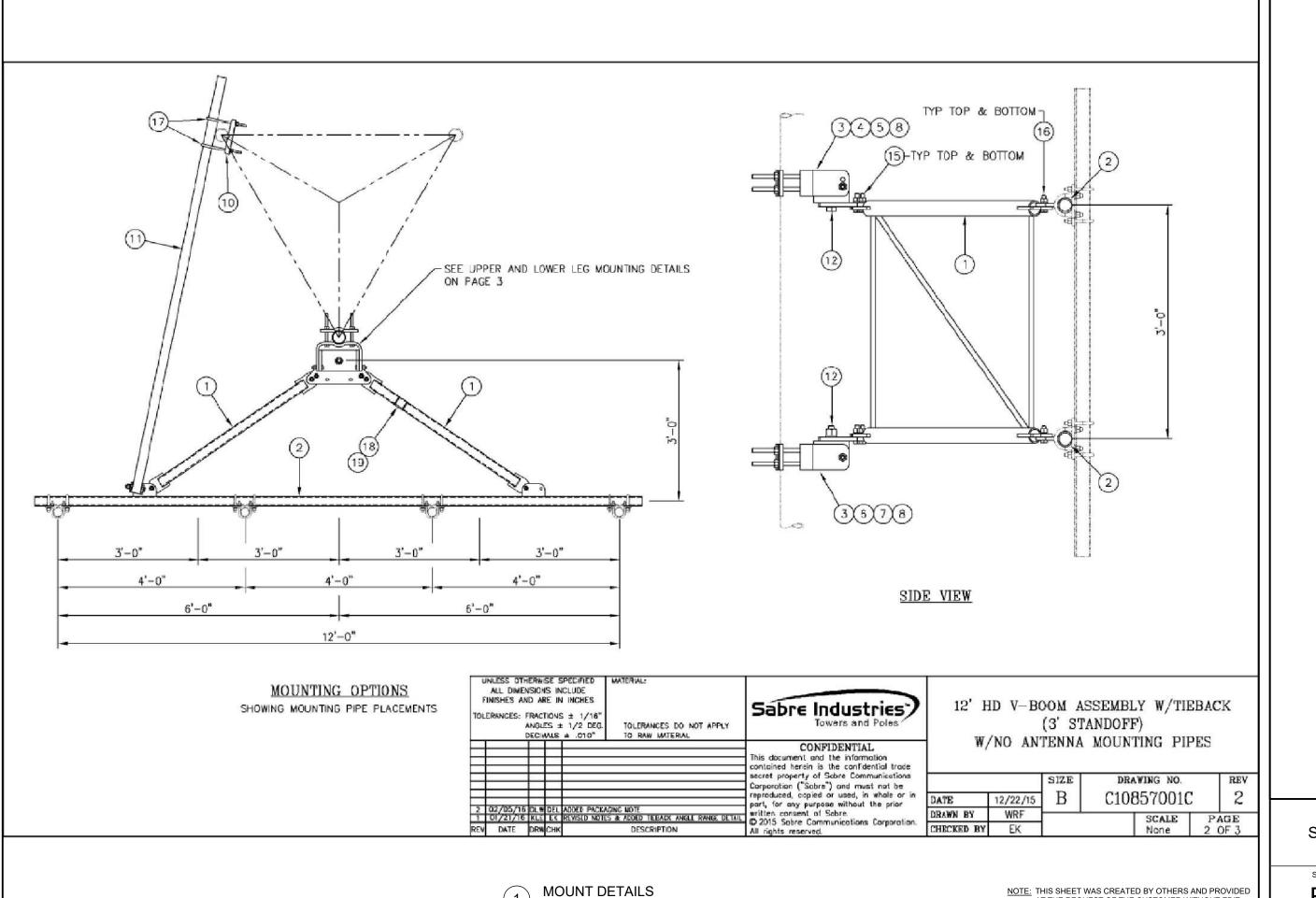
SUPPLEMENTAL

SHEET NUMBER:

MOUNT DETAILS

R-604

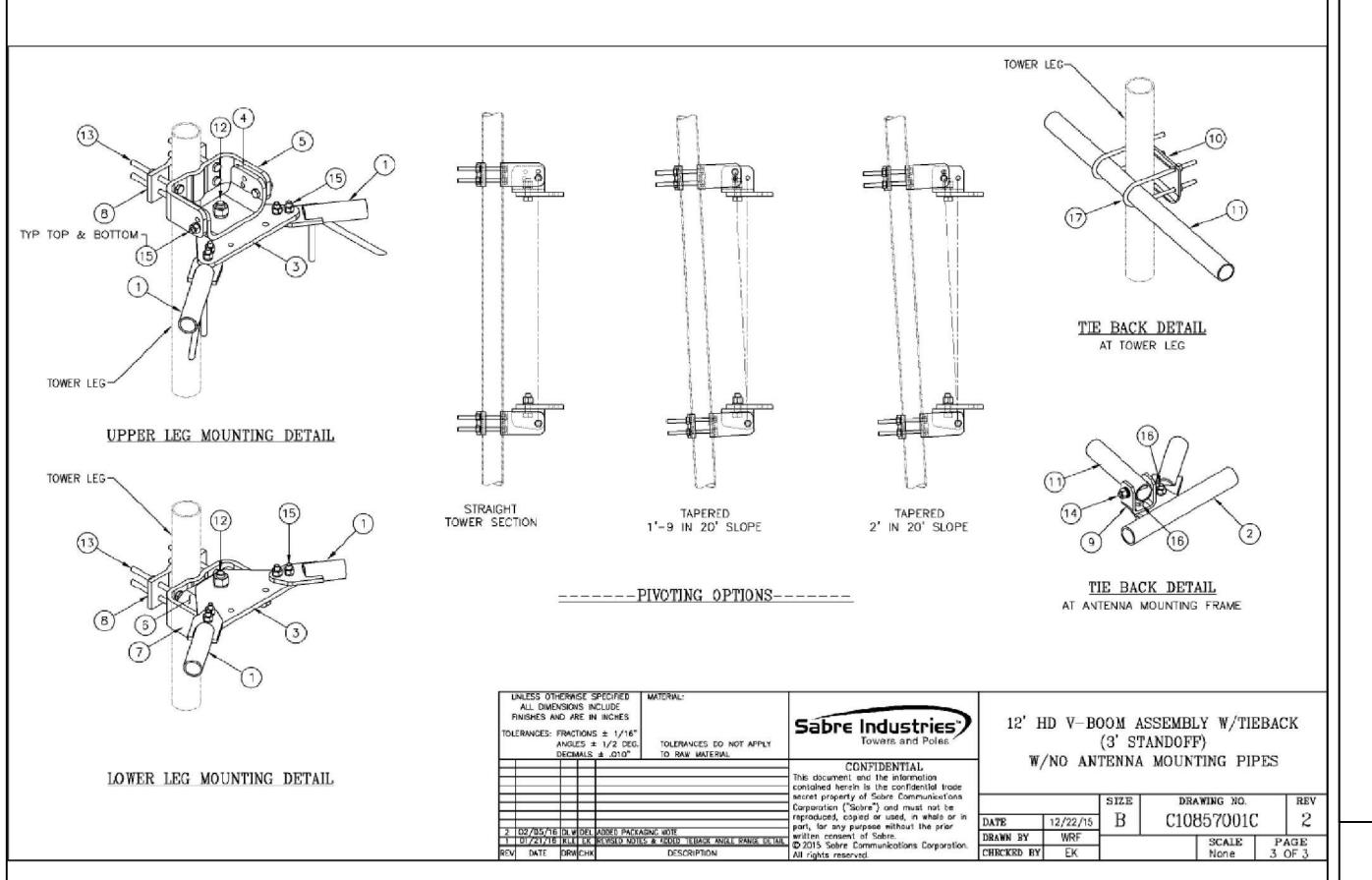
REVISION:



SUPPLEMENTAL

SHEET NUMBER: REVISION: R-605 0

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SUPPLEMENTAL

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REVISION:

R-606

MOUNT DETAILS