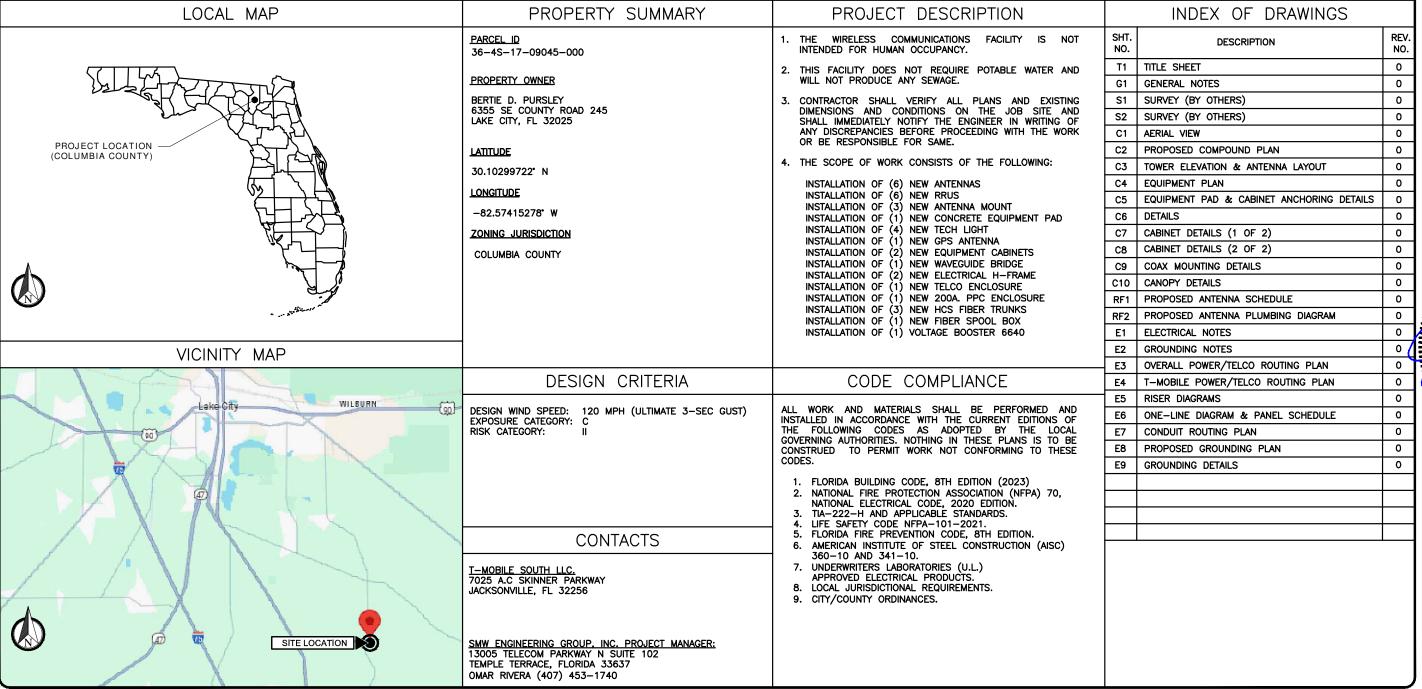
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T-MOBILE SITE NAME
9JKJ2254A
T-MOBILE SITE ID
#9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

PROPOSED COMMUNICATION FACILITY CO-LOCATE ON A EXISTING 250' SELF SUPPORT TOWER



Α	02/24/25		PRE	LIM	PLANS
В	03/24/25	RE\	/ISED	PER	COMMENTS
0	06/09/25	RE\	/ISED	PER	COMMENTS
Р	ROJECT NO.:	:		25–5	5114
	DRAWN BY:			J. EL	IZONDO
PROJ	ECT MANAG	ER:		0. F	RIVERA
	CHECKED BY	' :		0. F	RIVERA

REV DATE

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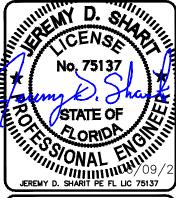


13005 TELECOM PARKWAY N SUITE 102 TEMPLE TERRACE, FLORIDA 33637 (813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693



7025 A.C. SKINNER PARKWAY



9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

TITLE SHEET

SHEET NUMBER

T1

1. FOR THE PURPOSES OF THESE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:

OWNER - T-MOBILE USA

ENGINEER - SMW ENGINEERING GROUP, INC.

CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)

- 2. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO (1) VERIFY ALL EXISTING CONDITIONS, (2) CONFIRM WHETHER ALL DIMENSIONS ARE AS SHOWN ON THE PLANS AND (3) CONFIRM WHETHER THE WORK MAY BE ACCOMPLISHED AS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER.
- 3. A 20-FOOT HORIZONTAL CLEARANCE DISTANCE SHALL BE MAINTAINED FROM ALL EXISTING POWER LINES.
- 4. THE CONTRACTOR'S USE OF A CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE OF THE CONSTRUCTION START DATE.
- 5. LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND TEMPORARY POWER SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN. LABOR AND MATERIALS SHALL BE FURNISHED AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL ELEMENTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS.
- 6. FOR TASKS REQUIRED TO BE PERFORMED BUT NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOT START WORK ON SUCH TASKS WITHOUT HAVING RECEIVED WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER TO PROCEED.
- 7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS MAY BE MODIFIED AS REQUIRED BY ACTUAL FIELD CONDITIONS. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER AND THE CONSTRUCTION MANAGER.
- 8. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL DELIVER SUCH DOCUMENTS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- 9. THE CONTRACTOR'S OPERATIONS SHALL BE CONFINED TO AREAS OF NEW CONSTRUCTION.
- 10. ALL NECESSARY PROVISIONS SHALL BE MADE TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME RESULTING FROM THE CONSTRUCTION WORK. ALL DISTURBED AND DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
- 11. THE FOLLOWING CLEANUP TASKS SHALL BE PERFORMED AS FOLLOWS: (1) ON A DAILY BASIS, KEEP THE GENERAL AREA CLEAN AND HAZARD FREE, REMOVING ALL WASTE, DEBRIS AND TRASH FROM THE SITE AND DISPOSING OF SAME IN A LEGAL MANNER. (2) UPON COMPLETION, LEAVE THE PREMISES IN A CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. (3) UPON COMPLETION, CONSTRUCTION AND CONSTRUCTION STAGING AREA SHALL BE LEFT IN AS GOOD OR BETTER CONDITION THAN PRIOR TO CONSTRUCTION.
- 12. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S RECOMMENDATIONS EXCEPT WHERE IT IS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 13. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PERFORMANCE OF THE WORK, MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AS WELL AS LOCAL AND STATE CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 14. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AT ALL TIMES, USING THE BEST SKILLS AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK, INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 15. WITHIN TEN (10) WORKING DAYS AFTER PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS, SWEEP TEST, CYLINDER TESTS, LIEN RELEASES, AND OTHER CLOSEOUT DOCUMENTATION AS REQUIRED BY THE OWNER. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO THE OWNER'S ACCEPTANCE.

- THE APPROPRIATE UTILITY LOCATING SERVICES SHALL BE CONTACTED PRIOR TO THE START OF CONSTRUCTION IN ORDER TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.
- . THE INSTALLATION OF NEW UTILITIES SHALL BE COORDINATED WITH LOCAL AUTHORITIES.
- 5. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SUCH UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. EXTREME CAUTION SHALL BE USED WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
- 4. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES THAT INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE LANDLORD AND/OR LOCAL UTILITIES.
- DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION SHALL BE MINIMIZED.
- . ANY AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE. SUCH GRADING SHALL CAUSE SURFACE WATER TO FLOW AWAY FROM ANY EQUIPMENT SHELTER AND TOWER AREAS AND THE SOIL SHALL BE STABILIZED TO PREVENT EROSION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 8. THE SUB-GRADE SHALL BE COMPACTED AND BROUGHT TO A UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 9. BACKFILL SHALL CONSIST OF CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WILL BE ALLOWED. CLEAN SAND FILL SHALL BE FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL.
- 10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL
- 1. SITE SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR SUCH SIGNAGE AS MAY BE CONTAINED IN THESE DRAWINGS.

SITE WORK NOTES

NOTES

B. ALL STRUCTURAL STEEL WF BEAMS SHALL BE ASTM A992 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153

ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITION OF THE AISC "STEEL CONSTRUCTION MANUAL".

- C. ALL STRUCTURAL PLATES, ANGLES, AND CHANNELS SHALL BE ASTM A36 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
- D. ALL TS MEMBERS SHALL BE ASTM A500 GRADE B (Fy=46ksi), AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
- E. ALL STRUCTURAL PIPE MEMBERS SHALL BE ASTM A500 GRADE B (Fy=42ksi), AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
- T. ALL NON_STRUCTURAL PIPE MEMBERS SHALL BE ASTM A53 GRADE B, AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
- 2. DESIGN, FABRICATION, AND CONSTRUCTION OF ALL CONNECTIONS SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL.
- WELDING:
- A. ALL WELDS, WELDERS, AND WELD INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AWS D 1.1, LATEST REVISION.
- B. ALL WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES.
- C. ALL STEEL SHALL BE SPRAY GALVANIZED AFTER WELDING.
- H. ALL BOLTS SHALL BE GALVANIZED ¾" DIAMETER, A325-N, UNLESS NOTED OTHERWISE AND TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC. SECURE NUT WITH LOCKING WASHER.
- ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR/STEEL FABRICATOR SHALL LOCATE ANY REINFORCEMENT IN THE STRUCTURAL MEMBERS IN SUCH A MANNER SO THAT THERE WILL NOT BE CONFLICT WITH THE REINFORCEMENT WHEN INSTALLING ANCHORS. THE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTION.
- 7. THE CONTRACTOR/STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION.
- B. ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/6 INCH TOLERANCE. STRUCTURAL STEEL SHALL NOT BE FLAME CUT UNDER ANY CIRCUMSTANCES WITHOUT APPROVAL OF THE ENGINEER.
- 9. THE CONTRACTOR/STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES AS REQUIRED TO PREVENT RAINWATER INTRUSION.
- . THE CONTRACTOR/STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION. AT THE CONTRACTOR'S OPTION, FIELD SPLICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPLICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE ALL DETAILS FOR THE PROPOSED FIELD SPLICES.
- 11. AT THE CONTRACTOR'S OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS.
 - SUBMIT ORIGINAL SHOP DRAWINGS, INCLUDING COMPLETE DETAILS, SCHEDULES OF FABRICATION AND ASSEMBLY, PROCEDURES, AND DIAGRAMS. INCLUDE DETAILS OF CUTS, CONNECTIONS, CAMBER, HOLE, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS A2.1 AND A2.4 SYMBOLS, AND SHOW SIZE, LENGTH, AND TYPE OF WELD. PROVIDE SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS AND OTHER ANCHORAGES TO BE INSTALLED AS WORK OF OTHERS' SECTIONS.

A 02/24/25 PRELIM PLANS
B 03/24/25 REVISED PER COMMENTS
0 06/09/25 REVISED PER COMMENTS

PROJECT NO.: 25-5114

DRAWN BY: J. ELIZONDO

PROJECT MANAGER: O. RIVERA

CHECKED BY: O. RIVERA

REV DATE

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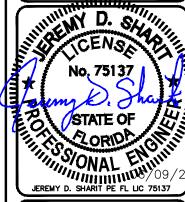


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CERTIFICATE OF AUTHORIZATION 33693



7025 A.C. SKINNER PARKWAY JACKSONVILLE, FL 32256



9JKJ2254A #9JK2254A

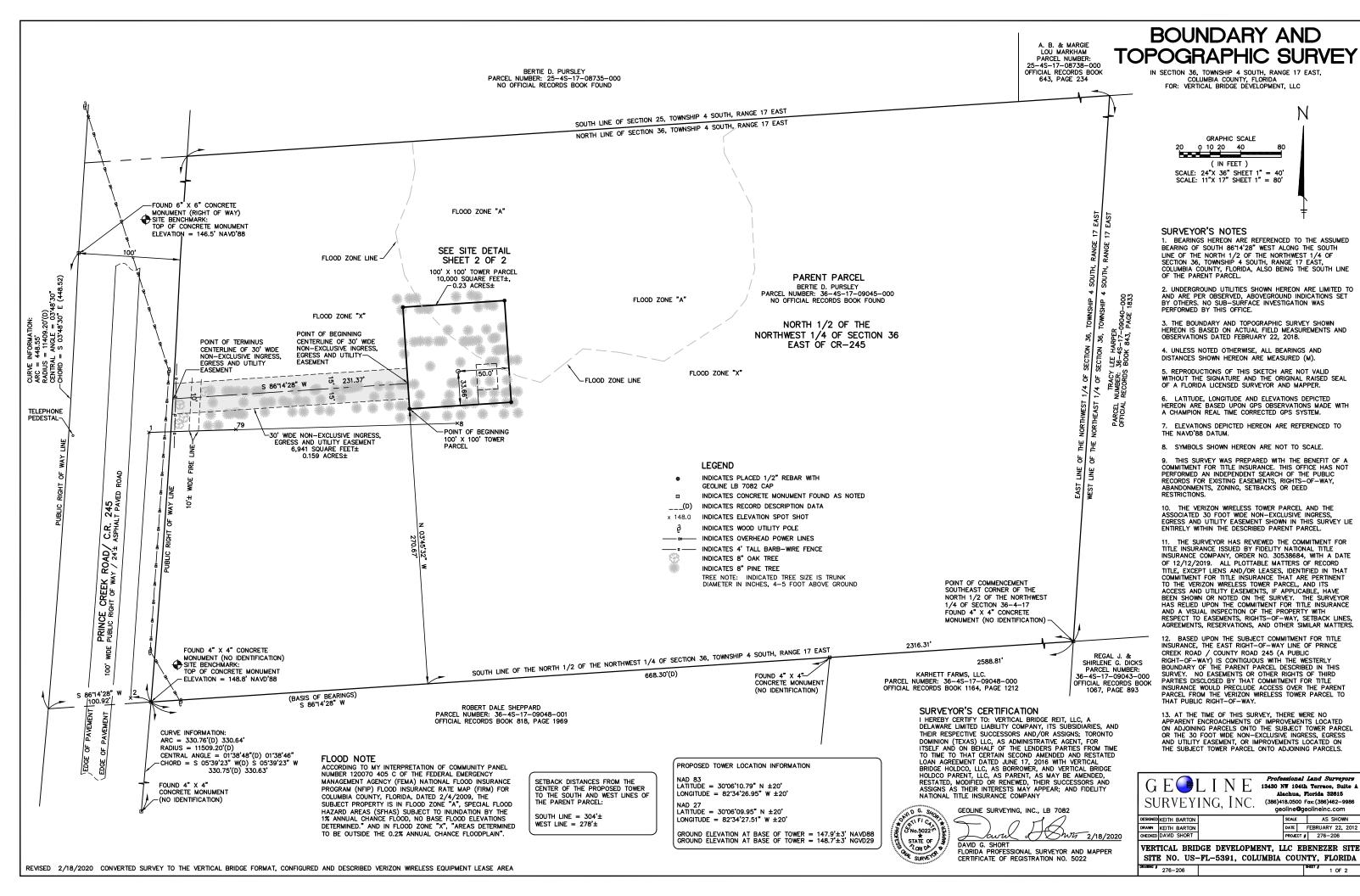
6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

GENERAL NOTES

SHEET NUMBER

G1



COMMITMENT FOR TITLE INSURANCE REVIEW NOTE

I HAVE REVIEWED THE COMMITMENT FOR TITLE INSURANCE PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ORDER NO. 30538684, WITH A DATE OF 12/12/2019, AND FIND AS FOLLOWS WITH RESPECT TO THE FOLLOWING EXCEPTIONS LISTED ON SCHEDULE B-II OF SAID COMMITMENT:

- 1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I—REQUIREMENTS ARE MET. NOT THE TYPE TO BE DEPICTED
- 2. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. NOT THE TYPE TO BE DEPICTED HEREON.
- 3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND. AS DEPICTED HEREON.
- 4. EASEMENTS, OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS. NOT THE TYPE TO BE DEPICTED HEREON.
- 5. ANY LIEN, OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS. NOT THE TYPE TO BE
- 6. TAXES OR SPECIAL ASSESSMENTS WHICH ARE NOT SHOWN AS EXISTING LIENS BY THE PUBLIC RECORDS. NOT THE TYPE TO BE DEPICTED HEREON.

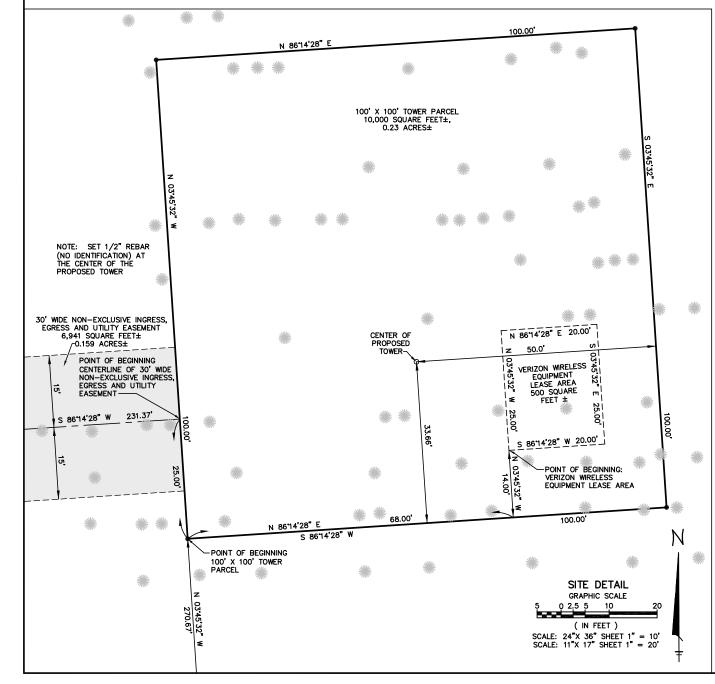
SPECIAL EXCEPTIONS

7. TAXES FOR THE YEAR 2020 AND SUBSEQUENT YEARS. A LIEN NOT YET DUE AND PAYABLE. NOT THE TYPE TO BE DEPICTED HEREON.

8. TIMBER SALE CONTRACT DATED JUNE 24, 1993 BY AND BETWEEN 6. IMBER SALE CONTRACT DATED JUNE 24, 1935 BT AND BE WEEN ROGER C. PURSLEY & BERTIE D. PURSLEY, AS GRANTOR, AND DOCK T. SEAY, A CORPORATION, AS GRANTEE, RECORDED ON JUNE 24, 1993 IN OFFICIAL RECORD BOOK 0776, PAGE 1063; PUBLIC NOTICE OF TIMBER TRANSACTION RECORDED ON JUNE 29, 1993 IN OFFICIAL RECORD BOOK 0776, PAGE 1521. REFERENCES THE PARENT PARCEL. NOT THE TYPE TO BE DEPORTED HEEDON. TO BE DEPICTED HEREON.

9. RIGHT-OF-WAY EASEMENT IN FAVOR OF CLAY ELECTRIC OCOPERATIVE, INC., A FLORIDA CORPORATION SET FORTH IN
INSTRUMENT RECORDED ON JANUARY 4, 2011 IN OFFICIAL RECORD
BOOK 1207, PAGE 1731. DOES NOT INCLUDE THE PARENT PARCEL. NOT DEPICTED HEREON.

10. TERMS AND CONDITIONS OF MEMORANDUM OF LAND LEASE AGREEMENT DATED JUNE 11, 2018 BY AND BETWEEN BERTIE D. PURSLEY, AND VERIZON WIRELESS PERSONAL COMMUNICATIONS LP D/B/A VERIZON WIRELESS, A DELAWARE LIMITED PARTNERSHIP, RECORDED ON JUNE 21, 2018 IN OFFICIAL RECORD BOOK 1362, PAGE 2405. REFERENCES THE SUBJECT TOWER PARCEL AND THE ASSOCIATED EASEMENT DEPICTED HEREON.



PROPERTY DESCRIPTIONS

(EXHIBIT "A", COMMITMENT FOR TITLE INSURANCE)

ALL THAT CERTAIN PARCEL OF LAND LYING AND BEING IN THE COUNTY OF COLUMBIA, AND STATE OF FLORIDA, MORE PARTICULARLY DESCRIBED

THE NORTH-HALF (N 1/2) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, CONTAINING 80 ACRES, MORE OR LESS.

LESS AND EXCEPT THAT PORTION OF PROPERTY CONVEYED TO LENVIL H. DICKS FROM ROGER C. PURSLEY AND BERTIE D. PURSLEY BY WARRANTY DEED DATED JANUARY 29, 1991 AND RECORDED JANUARY 30, 1991 IN DEED BOOK 0741, PAGE 0751.

LESS AND EXCEPT THAT PORTION OF PROPERTY CONVEYED TO ROBERT P. DICKS, JR. AND FRANCES F. DICKS FROM ROGER C. PURSLEY AND BERTIE D. PURSLEY BY DEED DATED JANUARY 29, 1991 AND RECORDED FEBRUARY 18, 1991 IN DEED BOOK 742, PAGE 11.

AND BEING A PORTION OF THE SAME PROPERTY CONVEYED TO ROGER C. PURSLEY AND BERTIE D. PURSLEY FROM JESSE F. PYLE AND MARGARET H. PYLE BY WARRANTY DEED DATED SEPTEMBER 4, 1951 AND RECORDED SEPTEMBER 6, 1951 IN DEED BOOK 79, PAGE 319; THE SAID ROGER C. PURSLEY, DEPARTED THIS EARTH ON OR ABOUT SEPTEMBER 15, 2009, LEAVING BERTIE D. PURSLEY HIS SURVIVING TENANT BY THE ENTIRETY.

TAX PARCEL NO. 36-4S-17-09045-000

TOWER PARCEL (OFFICIAL RECORD BOOK 1362, PAGE 2405)

THAT PART OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA. THENCE SOUTH 86'14'28" WEST ALONG THE SOUTH LINE OF SAID NORTH 1/2 OF THE NORTHWEST 1/4 FOR 2316.31 FEET: THENCE NORTH 03'45'32" WEST FOR 270.67 FEET TO THE POINT BEGINNING; THENCE CONTINUE NORTH 03'45'32" WEST FOR 100.00 FEET: THENCE NORTH 86"14'28" EAST ALONG A LINE PARALLEL WITH SAID SOUTH LINE FOR 100.00 FEET; THENCE SOUTH 03'45'32" EAST FOR 100.00 FEET; THENCE SOUTH 86"14"28" WEST ALONG A LINE PARALLEL WITH SAID SOUTH LINE FOR 100.00 FEET TO SAID POINT OF BEGINNING.

CONTAINING 10,000 SQUARE FEET (0.23 ACRES), MORE OR LESS.

30-FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT (OFFICIAL RECORD BOOK 1362, PAGE 2405)

THAT PART OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, LYING WITHIN 15 FEET OF BOTH SIDES OF A CENTERLINE, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, THENCE SOUTH 86"14'28" WEST ALONG THE COLUMBIA COUNTY, FLORINA, HENCE SOUTH 651428 WEST ALONG HE SOUTH LINE OF SAID NORTH 1/2 OF THE NORTHWEST 1/4 FOR 2316.31 FEET; THENCE NORTH 03'45'32" WEST FOR 270.67 FEET TO THE SOUTHWEST CORNER OF A 100 FOOT BY 100 FOOT TOWER PARCEL; THENCE CONTINUE NORTH 03'45'32" WEST ALONG THE WEST LINE OF SAID TOWER PARCEL FOR 25.00 FEET TO THE POINT OF BEGINNING OF THE CENTERLINE OF THE HEREIN DESCRIBED 20 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT; THENCE SOUTH 86'14'28" WEST FOR 231.37 FEET TO AN INTERSECTION WITH THE EASTERLY RIGHT OF WAY LINE OF PRINCE CREEK ROAD / COUNTY ROAD 245 AND THE POINT OF TERMINUS OF THE HEREIN DESCRIBED CENTERLINE.

CONTAINING 6,941 SQUARE FEET (0.159 ACRES), MORE OR LESS.

VERIZON WIRELESS EQUIPMENT LEASE AREA (PREPARED BY GEOLINE SURVEYING, INC.)

THAT PART OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, THENCE SOUTH 86"14'28" WEST ALONG THE SOUTH LINE OF SAID NORTH 1/2 OF THE NORTHWEST 1/4 FOR 2316.31 FEET; THENCE NORTH 03"45"32" WEST FOR 270.67 FEET TO THE SOUTHWESTERLY CORNER OF A TOWER PARCEL AS PER DESCRIPTION RECORDED IN OFFICIAL RECORD BOOK 1362, PAGE 2405 OF THE PUBLIC RECORDS OF SAID COLUMBIA COUNTY; THENCE NORTH 86"4"28" EAST ALONG THE SOUTHERLY LINE OF SAID TOWER PARCEL FOR 68.00 FEET; THENCE NORTH 03"45"32" WEST FOR 14.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 03'45'32" WEST FOR 25.00 FEET; THENCE NORTH 86"14'28" EAST ALONG A LINE PARALLEL WITH SAID SOUTHERLY LINE FOR 20.00 FEET; THENCE SOUTH 03'45'32" EAST FOR 25.00 FEET; THENCE SOUTH 86'14'28" WEST ALONG A LINE PARALLEL WITH SAID SOUTHERLY LINE FOR 20.00 FEET TO SAID POINT OF

CONTAINING 500 SQUARE FEET, MORE OR LESS.

BOUNDARY AND TOPOGRAPHIC SURVEY

IN SECTION 36, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY FLORIDA FOR: VERTICAL BRIDGE DEVELOPMENT, LLC



VICINITY MAP NOT TO SCALE



LOCATION MAP NOT TO SCALE

276-206

Professional Land Surveyors G E L I N E 13430 NW 104th Terrace, Suite Alachua, Florida 32615 SURVEYING, INC. (386)418.0500 Fax: (386)462-9986 geoline@geolineinc.com SCALE AS SHOWN DESIGNED KEITH BARTON DRAWN KEITH BARTON DATE FEBRUARY 22, 2012 CHECKED DAVID SHORT PROJECT # 276-206 VERTICAL BRIDGE DEVELOPMENT, LLC EBENEZER SITE SITE NO. US-FL-5391, COLUMBIA COUNTY, FLORIDA



A 02/24/25 PRELIM PLANS B 03/24/25 REVISED PER COMMENTS 0 06/09/25 REVISED PER COMMENTS
0 06/09/25 REVISED PER COMMENTS
1475

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J. ELIZONDO O. RIVERA

O. RIVERA

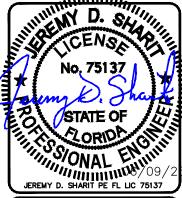


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CERTIFICATE OF AUTHORIZATION 33693

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7025 A.C. SKINNER PARKWAY JACKSONVILLE, FL 32256



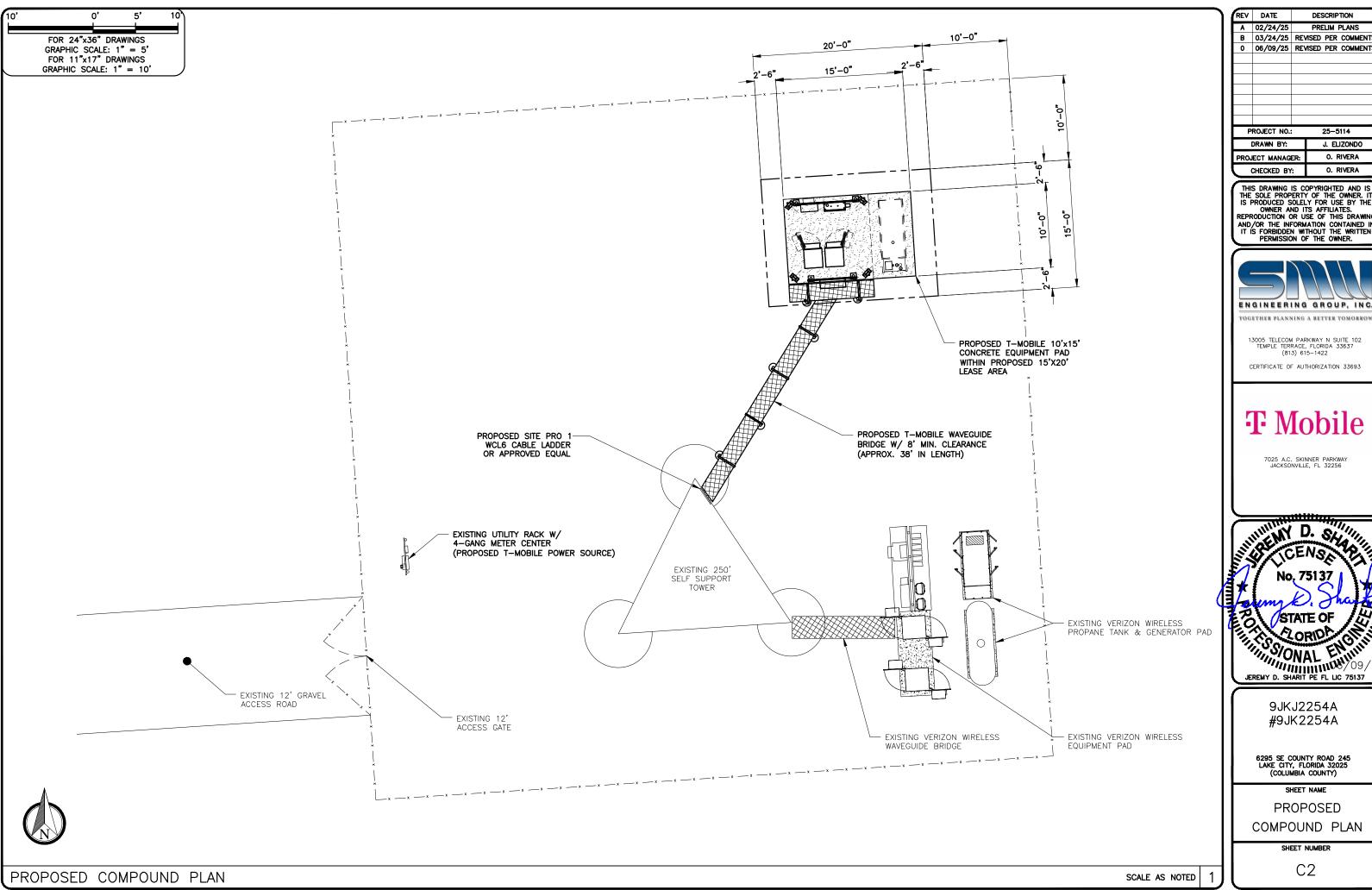
9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

AERIAL VIEW

SHEET NUMBER



REV	DATE	DE	SCRIPTION
Α	02/24/25	PRI	ELIM PLANS
В	03/24/25	REVISED	PER COMMENTS
0	06/09/25	REVISED	PER COMMENTS
Р	ROJECT NO.:		25-5114
	DRAWN BY:		J. ELIZONDO
PPO.	ECT MANAG	FD:	O. RIVERA

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O. RIVERA



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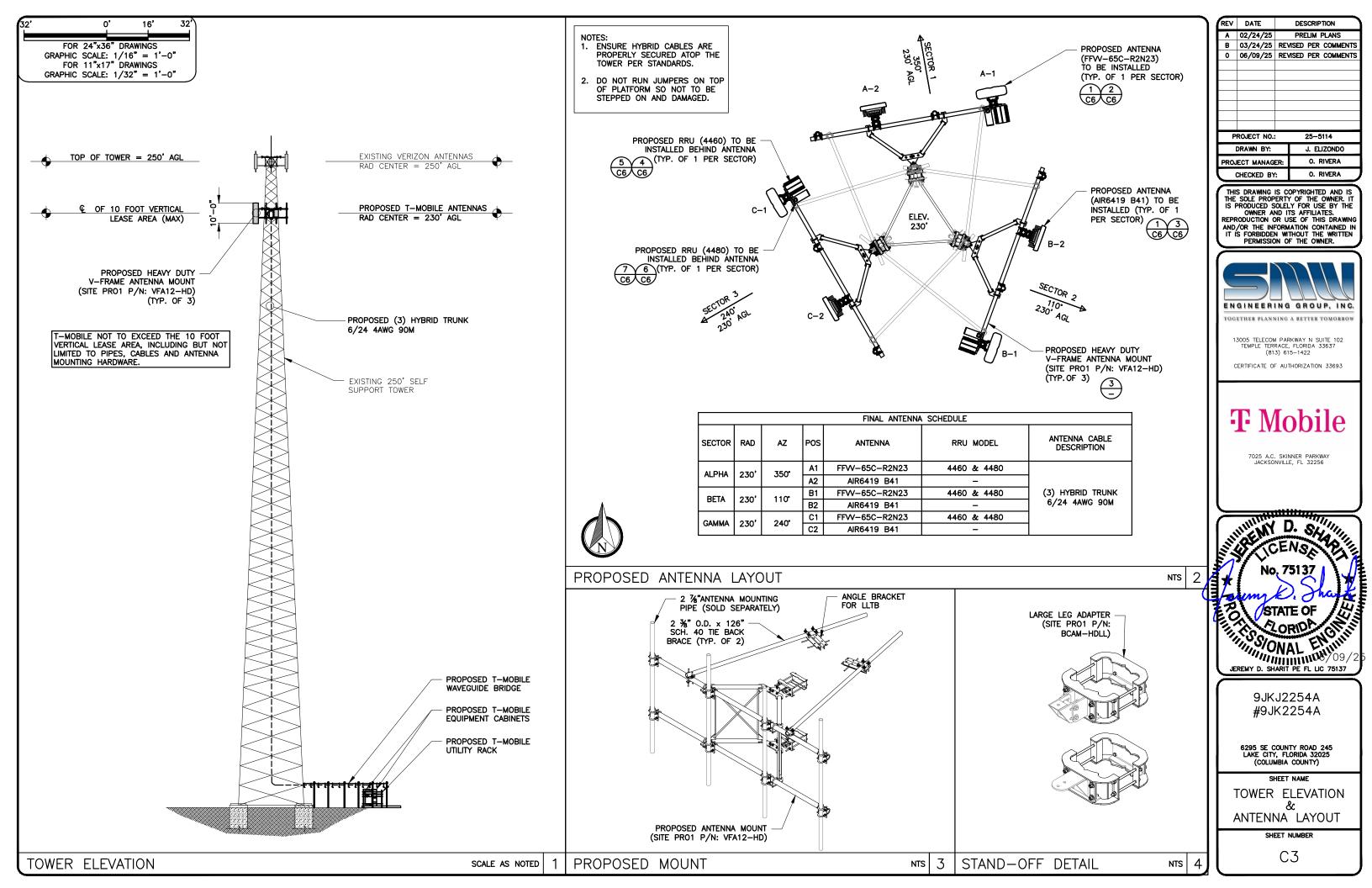
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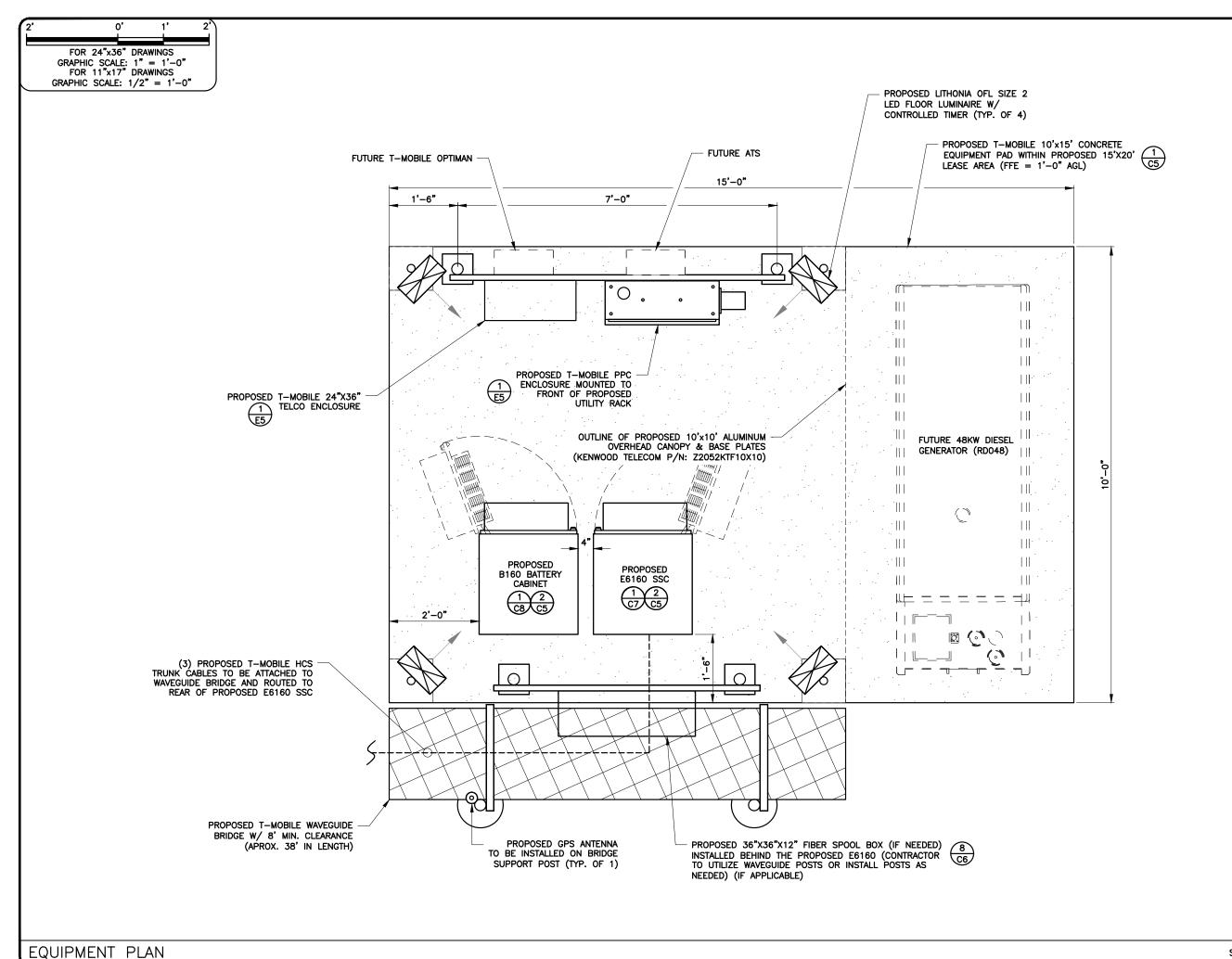
6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

PROPOSED COMPOUND PLAN

SHEET NUMBER





REV	DATE	DE	SCRIP	TION
Α	02/24/25	PF	ELIM	PLANS
В	03/24/25	REVISED	PER	COMMENTS
0	06/09/25	REVISED	PER	COMMENTS
-				
⊢	ROJECT NO.:		05 5	111
	ROJECT NO.	·	25-5	7114
	DRAWN BY:		J. EL	IZONDO
PROJ	ECT MANAG	ER:	0. 1	RIVERA
	CHECKED BY	,	0. 1	RIVERA

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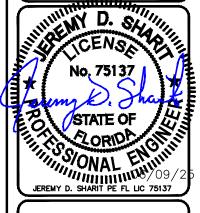


13005 TELECOM PARKWAY N SUITE 102 TEMPLE TERRACE, FLORIDA 33637 (813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693

T Mobile

7025 A.C. SKINNER PARKWAY JACKSONVILLE, FL 32256



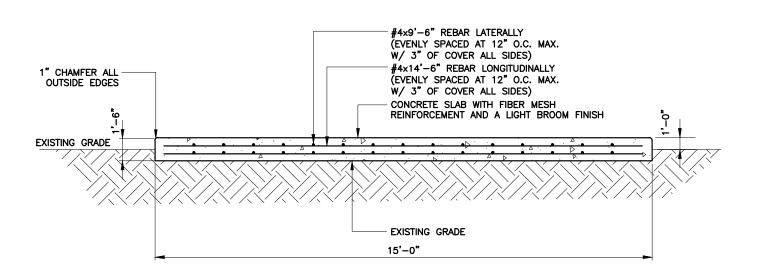
9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

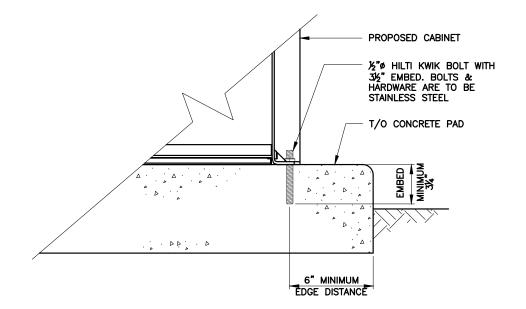
EQUIPMENT PLAN

SHEET NUMBER



- NOTES:
 1. ALL CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF fc'=3000 PSI WITH COMMERCIAL GRADE FIBER MESH REINFORCEMENT 1.5# PER CU. YARD
- 2. CONCRETE PAD IS DESIGNED TO BEAR ON 2000 PSF SOIL BEARING CAPACITY TO BE VERIFIED AT TIME OF EXCAVATION BY A SOILS ENGINEER REGISTERED IN THE STATE OF FLORIDA.

EQUIPMENT PAD FOUNDATION DETAIL NTS 1



REV	DATE		DESCRIP	TION
Α	02/24/25		PRELIM	PLANS
В	03/24/25	REV	SED PER	COMMENTS
0	06/09/25	REV	sed per	COMMENTS
Р	ROJECT NO.:		25-5	5114
	DRAWN BY:		J. El	LIZONDO
PROJ	ECT MANAG	ER:	0.	RIVERA
	CHECKED BY	$: \ \ $	0.	RIVERA

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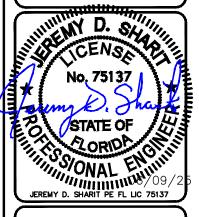


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SHEET NAME

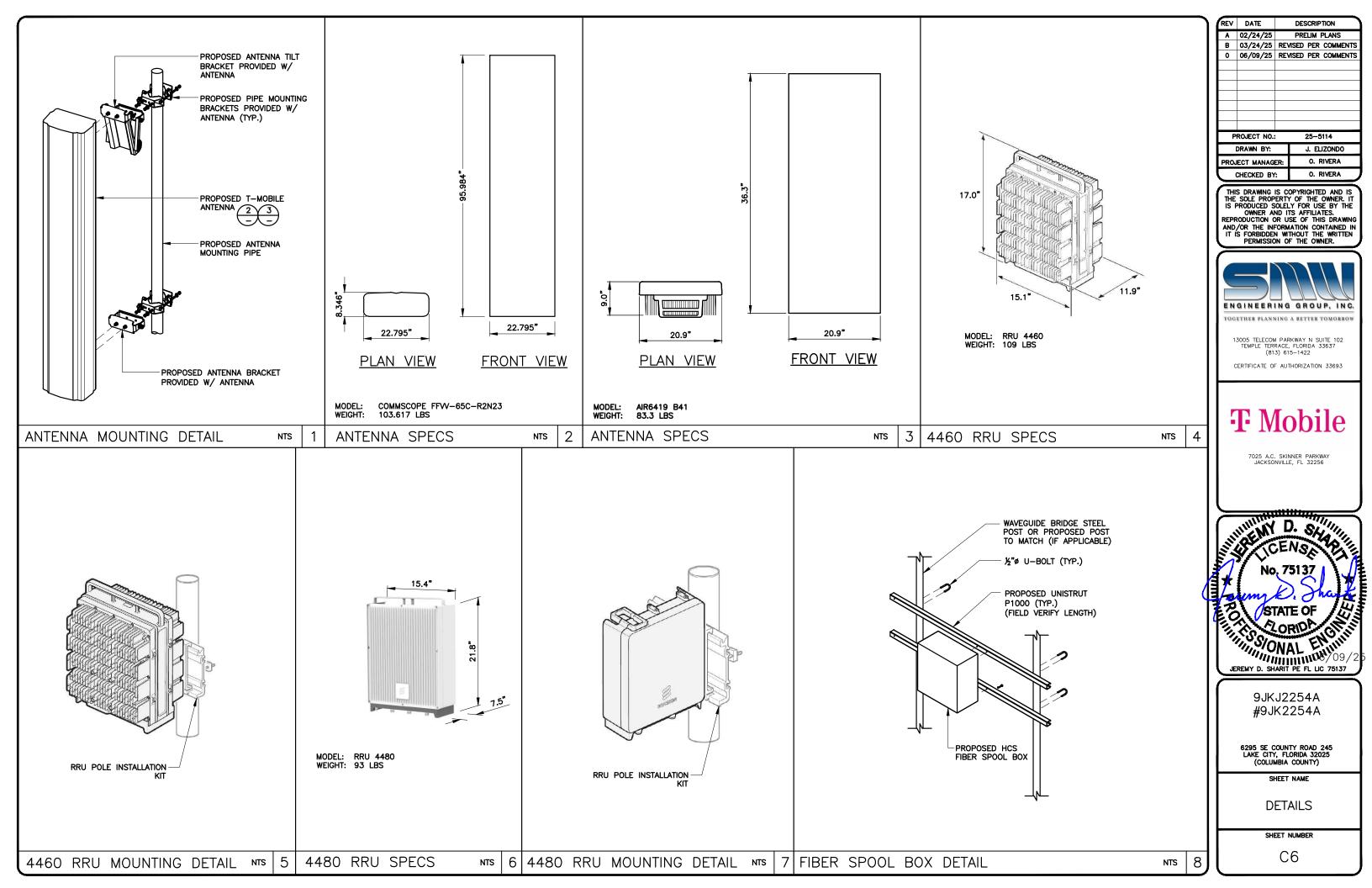
EQUIPMENT PAD & CABINET ANCHORING **DETAILS**

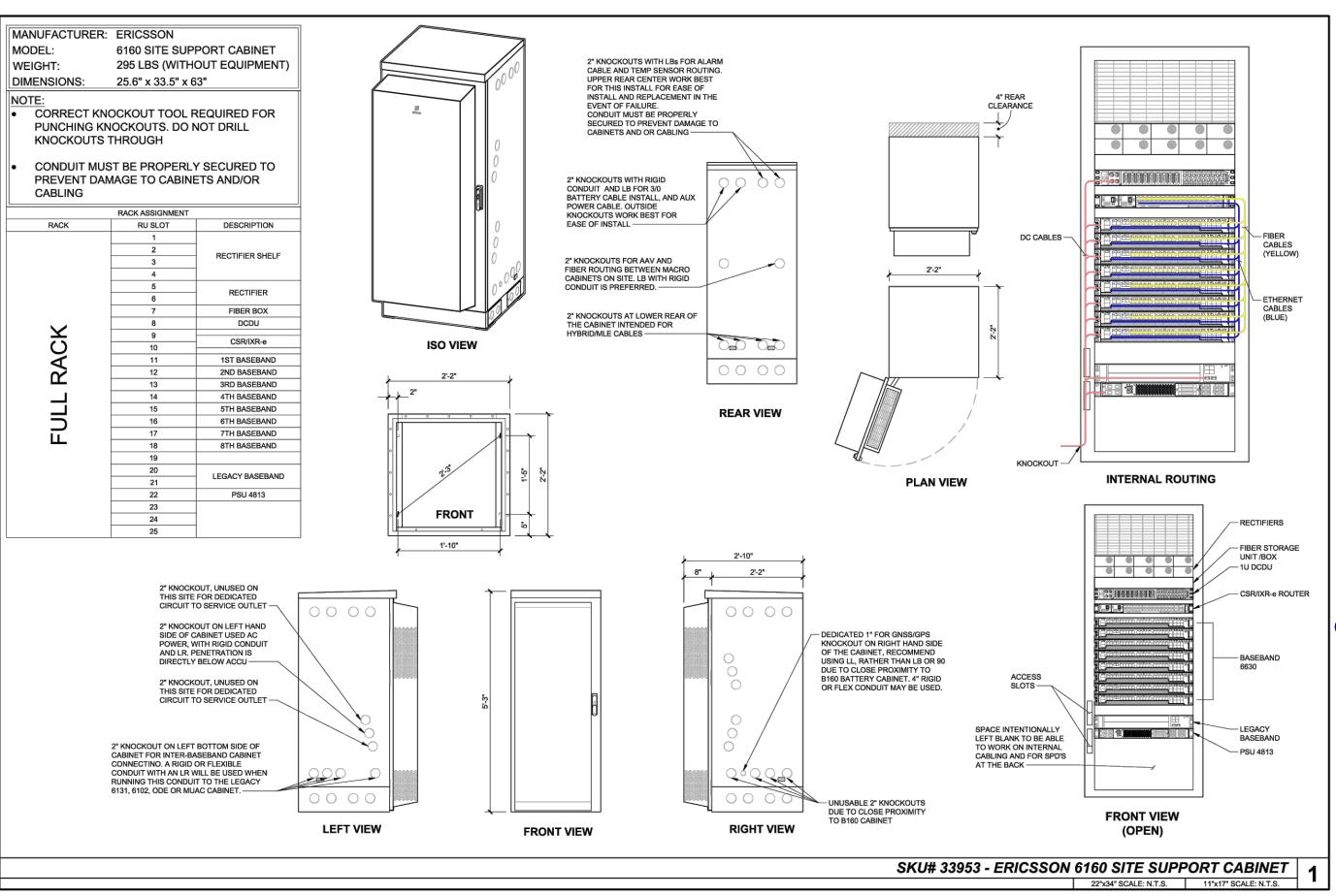
SHEET NUMBER

C5

CABINET MOUNTING DETAIL

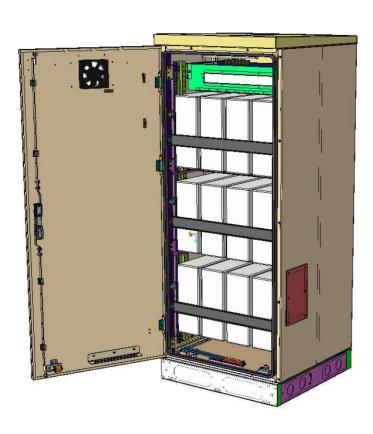
NTS





REV DATE DESCRIPTION A 02/24/25 PRELIM PLANS B 03/24/25 REVISED PER COMMENTS 0 06/09/25 REVISED PER COMMENTS J. ELIZONDO DRAWN BY: O. RIVERA PROJECT MANAGER: CHECKED BY: O. RIVERA THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES.
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SHEET NUMBER



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 IP44Li-Ion IP55

— Relative humidity: 15-100%

Climate system

Air Conditioner

— Fan type: DC

Cooling capacity: 500W @L35/L35

Convection cooling

Emergency fan

A 02/24/25 PRELIM PLANS
B 03/24/25 REVISED PER COMMENTS
0 06/09/25 REVISED PER COMMENTS

PROJECT NO.: 25-5114

DRAWN BY: J. ELIZONDO

PROJECT MANAGER: O. RIVERA

CHECKED BY: 0. RIVERA

REV DATE

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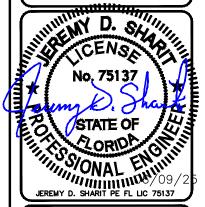


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9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

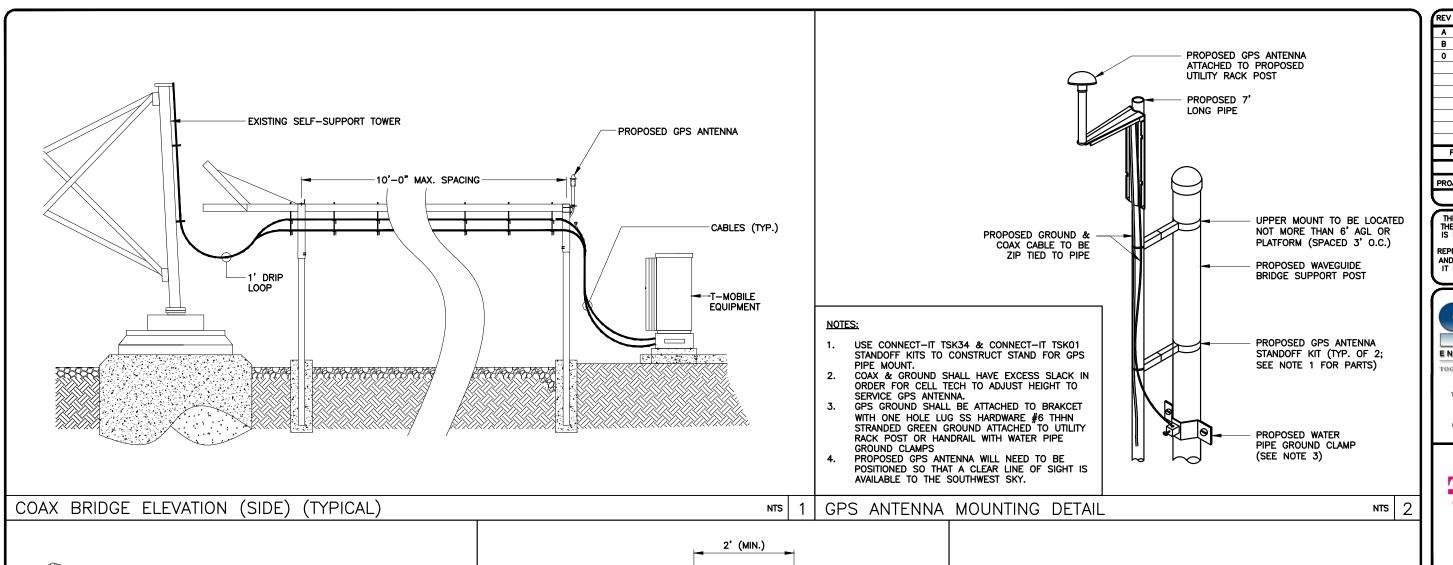
CABINET DETAILS (2 OF 2)

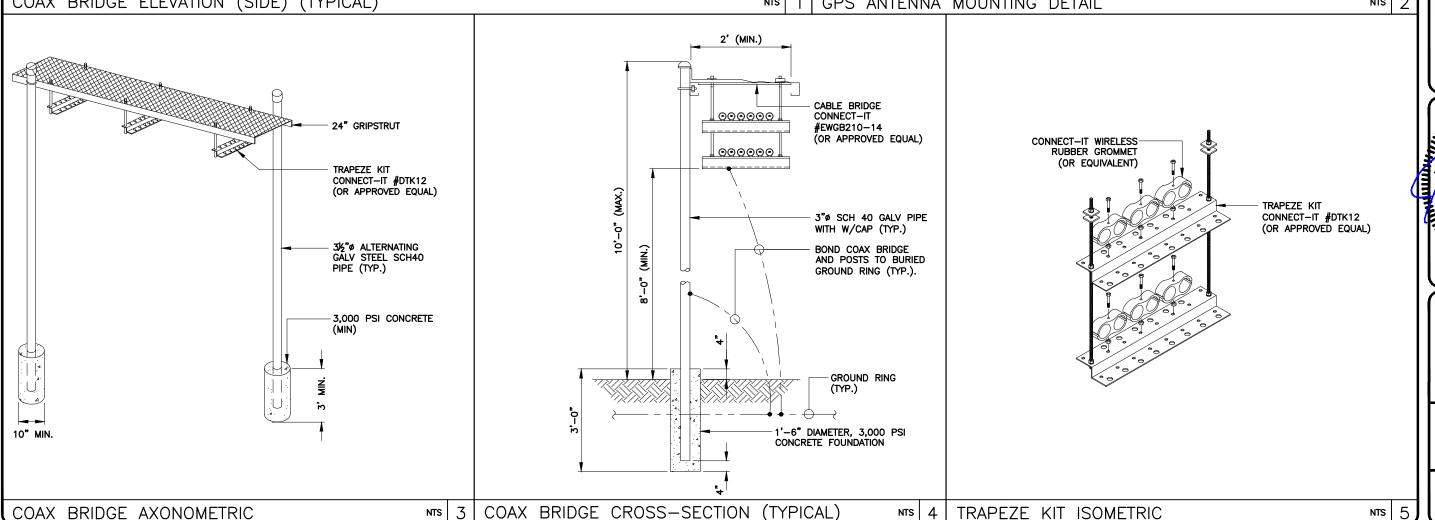
SHEET NUMBER

C8

ERICSSON B160 CABINET

NTS





REV	DATE	DESCRIPTION
Α	02/24/25	PRELIM PLANS
В	03/24/25	REVISED PER COMMENTS
0	06/09/25	REVISED PER COMMENTS
P	ROJECT NO.:	: 25-5114
	DRAWN BY:	J. ELIZONDO
PROJ	ECT MANAG	ER: 0. RIVERA
	CHECKED BY	Y: O. RIVERA

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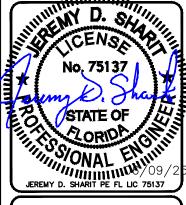


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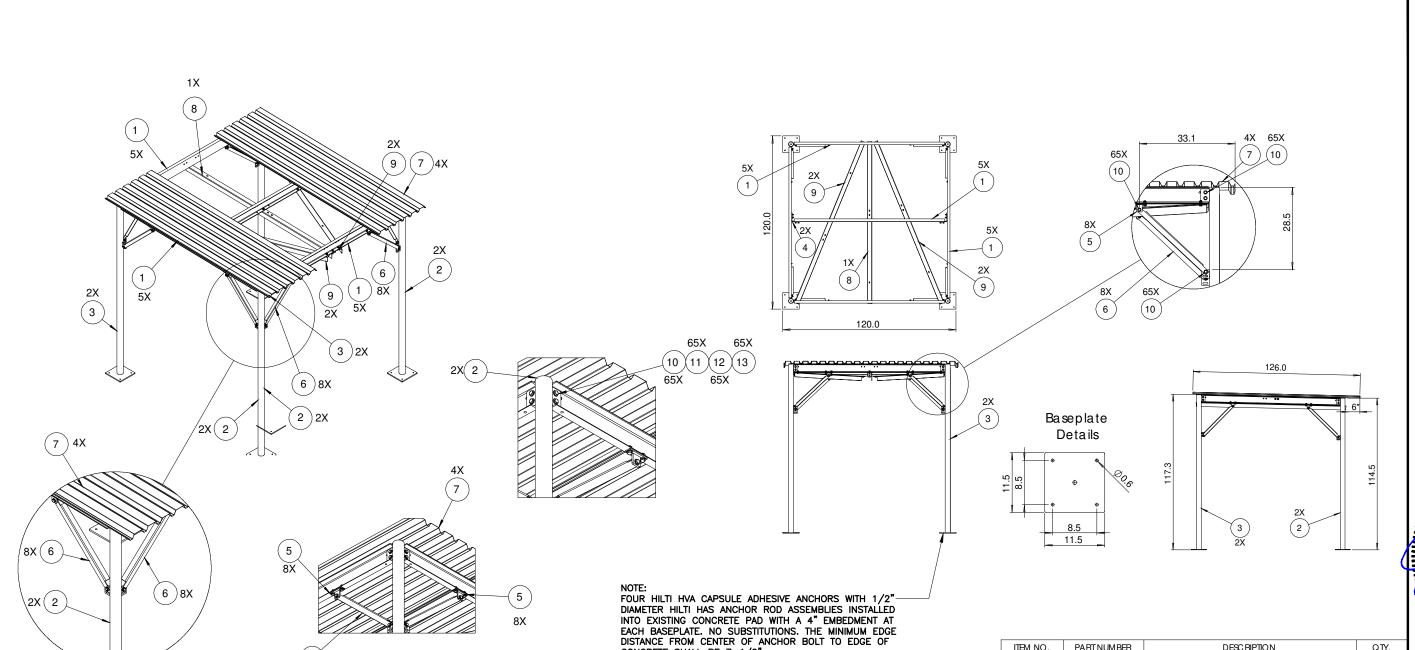
9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

> SHEET NAME COAX

MOUNTING DETAILS

SHEET NUMBER



KENWOOD TELECOM P/N: Z2052KTF

CONCRETE SHALL BE 7-1/2"

ITEM NO.	PARTNUMBER	DESC RIPTION	QTY.
1	Z2052KTF-10	Canopy channel for FL - 10'	5
2	Z2052KTF3-01	Post leg for canopy, 114", 3.5" pipe, center plate	2
3	Z2052KTF3-02	Post leg for canopy, 116", 3.5" pipe, center plate	2
4	K1529KT-03	Connector angle	2
5	Z2052KT-04	Angle Mount, Canopy	8
6	Z2052KT-03	Mounting Angle, Canopy 2x2x3/16"	8
7	T3936KT126	B-deck, 36" x 10.5', 22ga, Galv (126")	4
8	Z2052KTF-06	Stablizer Angle - Center	1
9	Z2052KTFD-10	Stabilizer Angle, Diagonal, Canopy, 10'	2
10	H1026KT112GA3	Bolt, 1/2"x1-1/2" (A325) HH HDG	65
11	H3012KT12GSAE	Flat washer, hardened, 1/2", SAE, HDG	65
12	H3002KT12G	Lock washer, 1/2" HDG	65
13	H2002KT12GA3	Nut, hex heavy 1/2" HDG A325	65
14	H1072KT114-BW	Tek screw, 1/4"x1-1/4" w/bonded washer	200

Α	02/24/25		PRI	LIM	PLANS
В	03/24/25	RE\	/ISED	PER	COMMENTS
0	06/09/25	RE\	/ISED	PER	COMMENTS
P	ROJECT NO.:	;		25–5	114
	DRAWN BY:			J. EL	IZONDO
PRO	JECT MANAG	ER:		0. F	RIVERA
abla	CHECKED BY	<u>; </u>		0. F	RIVERA

DESCRIPTION

REV DATE

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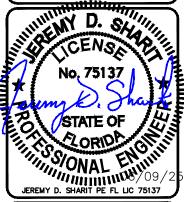


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9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

CANOPY DETAILS

SHEET NUMBER

C10

CANOPY DETAILS

NTS 1

Site ID: 9JK2254	Δ	Site	Section 1 - Site Informa	Latitude: 30.10	1299722
Purpose: Scopin Status: Approved Version: 1 Project Type: Co Approved: Approved By: Last Modified: 0	g i	Site Site Pla Mar Ven Lan	Class: Tower Other Type: Structure Non Building n Year: ket: JACKSONVILLE FL idor: Ericsson idlord: Vertical Bridge	Lander - & Longitude: - & Address: TBD City, State: TB Region: SOUT	57415278 D, FL
RAN Template: 6	7E5D998E 6160 (LRP)		AL Templ	ate: 675998E_1xAIR+10P ()	
Sector Count: 3	Antenna C	count: 6	Coax Line Count: 0	TMA Count: 0	RRU Count: 6
			Section 5 - RAN Equipr	nent	
		2	Existing RAN Equipm		
			This section is intentionally	blank	
			Proposed RAN Equips Template: 67E5D998E 6160		
			1empiate: 67E3D996E 6160	(LRP)	-
Enclosure		1			2
Enclosure Type	B160			Enclosure 6160_v2 AC	
Transport System				CSR IXRe V2 (Gen2)	
Hybrid Cable System				(Hybrid Trunk 6/24 4AWG 90m (x3)	(PSU 4813 vR4A (Kit))
Baseband				RP 6672	

Coverage Type	A - Outdoor Macro	9					
Antenna			1)			2	
Antenna Model	FFVV-65C-R2N23	3 (Octo)		AIR_6419_B41 (Active Anten	na - Massive MIMO)		
Azimuth	(350)				(350)		
M. Tilt	0			0			
RAD Center (ft.)	230				(230)		
Ports	P1	P2	P3	P4	P5	P6	
Active Tech	N600 L700	N600 L700	N2100 N1900	N2100 N1900	(N2500)	(N2500)	
Dark Tech							
Restricted Tech	(L600)	(L600)	(L1900) (L2100)	(L1900) (L2100)			
Decomm. Tech							
E. Tilt							
Cables	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)			
TMAs							
Diplexer / Combiners							
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)			
Sector Equipment							
Unconnected Equip	oment:	Maria Na					
Scope of Work:							

	10		Sector 2 (Pro	oposed) view f	rom behind	
Coverage Type	A - Outdoor Macro	9				
Antenna						2
Antenna Model	FFVV-65C-R2N23	(Octo)			AIR_6419_B41 (Active Anter	nna - Massive MIMO)
Azimuth	(110)				110	
M. Tilt	0				0	
RAD Center (ft.)	(230)				230	
Ports	P1	P2	P3	P4	P5	P6
Active Tech	L700 (N600)	L700 (N600)	N2100 N1900	N2100 N1900	N2500	(N2500)
Dark Tech						
Restricted Tech	L600	L600	L2100 L1900	L2100 L1900		
Decomm. Tech						
E. Tilt						
Cables	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)		
TMAs						
Diplexer / Combiners						
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B71+B85 (At	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)		
Sector Equipment						
Unconnected Equip	pment:					
Scope of Work:						

	-		Sector 3 (Pro	oposed) view f	rom behind	
Coverage Type	A - Outdoor Macro	9				
Antenna		31	l l			2
Antenna Model	FFVV-65C-R2N23	(Octo)		`	(AIR_6419_B41 (Active Anten	na - Massive MIMO)
Azimuth	240				(240)	
M. Tilt	0			0		
RAD Center (ft.)	230				230	
Ports	P1	P2	P3	P4	P5	P6
Active Tech	L700 N600	L700 N600	N1900 N2100	N1900 N2100	N2500	N2500
Dark Tech						
Restricted Tech	(L600)	L600)	(L1900) (L2100)	(L1900) (L2100)		
Decomm. Tech						
E. Tilt						
Cables	Coax Jumper	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)		
TMAs						
Diplexer / Combiners						
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)		
Sector Equipment						
Unconnected Equi	pment:			*	-	
Scope of Work:						

*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

DATE	DESCRIPTION						
02/24/25		PRE	LIM	PLANS			
03/24/25	RE\	/ISED	PER	COMMENTS			
06/09/25	RE\	/ISED	PER	COMMENTS			
ROJECT NO.:	;	:	25–5	114			
RAWN BY:		J. ELIZONDO					
ECT MANAG	ER:	R: O. RIVERA					
CHECKED BY	·		0. F	RIVERA			
	02/24/25 03/24/25 06/09/25 ROJECT NO.: DRAWN BY:	02/24/25 03/24/25 RE\ 06/09/25 RE\	02/24/25 PRE 03/24/25 REVISED 06/09/25 REVISED ROJECT NO.: PRAWN BY:	02/24/25 PRELIM 03/24/25 REVISED PER 06/09/25 REVISED PER ROJECT NO.: 25-5 PRAWN BY: J. EL ECT MANAGER: 0. F			

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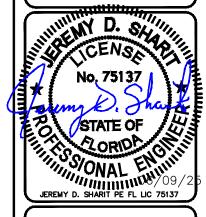


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9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

PROPOSED ANTENNA SCHEDULE (1 OF 1)

SHEET NUMBER

RF1

PROPOSED ANTENNA PLUMBING DIAGRAM WILL BE PROVIDED AT A LATER DATE



ALPHA

L1900

L2100

CHECKERED TECHNOLOGY

COLOR CODES

L700

U2100

U1900

G1900

	В	03/24/25	RE\	/ISED	PER	COMMENTS	``	
	0	06/09/25	RE\	/ISED	PER	COMMENTS	3	
	P	ROJECT NO.:	:		25–5	114		
		DRAWN BY:			J. EL	IZONDO		
	PROJ	ECT MANAG	ER:	O. RIVERA				
ı	ĺ	CHECKED BY	· _	O. RIVERA				
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DESCRIPTION

PRELIM PLANS

REV DATE

A 02/24/25

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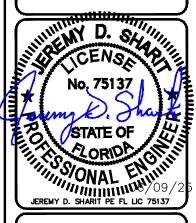


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7025 A.C. SKINNER PARKWAY JACKSONVILLE, FL 32256



9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

PROPOSED ANTENNA
PLUMBING DIAGRAM

SHEET NUMBER

RF2

A - GENERAL

- A1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ADOPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- A2. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE.
- ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
- A4. ALL POWER WIRING SHALL BE STRANDED COPPER, TYPE THHN/THHW, AND 90 DEGREES C RATED.
- A5. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE, TIN COATED COPPER AND EQUIPMENT GROUND CONDUCTORS SHALL BE GREEN INSULATED, UNLESS OTHERWISE NOTED.
- A6. ALL POWER WIRING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT, PVC, OR FLEXIBLE LIQUIDTIGHT CONDUIT, AS INDICATED.
- A7. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
- A8. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.
- A9. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
- A10. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- A11. WHERE LONG POWER CABLE RUNS PREVAIL, CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND SIZE WIRES AND CONDUIT ACCORDINGLY.
- A12. WHERE TRANSFORMER IS REQUIRED FOR ELECTRICAL SERVICE, TRANSFORMER SECONDARY SHALL BE GROUNDED PER N.E.C., ARTICLE 250-26.
- A13. REFER TO SITE SPECIFIC DWGS FOR ELEVATIONS.
- A14. ALL ELECTRICAL DEVICES EXPOSED TO WEATHER SHALL BE OF RAINPROOF CONSTRUCTION AND SHALL REQUIRE WATER TIGHT CONDUIT HUBS. NEMA 3R TYPICAL
- A15. CONTRACTOR SHALL COIL CABLES AT HANDHOLE WITH LENGTHS AS REQUIRED BY ELECTRICAL UTILITY FOR CONNECTION BY LITHLITY
- A16. ALL UNDERGROUND SERVICE ENTRANCE POWER CABLES SHALL BE TYPE FOR SUCH USE. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND RE-SIZE CABLES PER NEC REQUIREMENTS FOR CABLE RUNS EXCEEDING 250 FEET.

B - POWER CABLE AND SERVICE

- B1. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO BTS AND VERIFY EXACT CONDUIT ROUTING. RACEWAY SYSTEM MATERIALS AND DEVICES FURNISHED SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF ANSI, NEMA, AND UL. RACEWAY SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE N.E.C.
- B2. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATION.
- B3. CONDUCTORS RUNNING ALONG HORIZONTAL SURFACES (ROOF TOP OR SLAB) SHALL BE INSTALLED IN RIGID CONDUIT SUPPORT.
- B4. ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM.
- B5. WHERE A SEPARATE ELECTRICAL SERVICE DROP IS ADDED, CONTRACTOR SHALL INSTALL PERMANENT SERVICE DISCONNECT OR GROUPING THEREOF, DENOTING ALL OTHER SERVICE ENTRANCES, LOCATION OF EACH AND THE AREAS SERVED BY EACH.
- B6. WHERE ELECTRICAL POWER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY:
 - A) CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE 220-35.
 - B) CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220-35
 - C) EACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS EQUIPMENT SUPPLYING IT.

 D) PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL.
 - E) IF A BRANCH CIRCUIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR SPACE IS NOT AVAILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM EXISTING FEEDER CONDUCTORS USING AN INSTALLED 2-POLE FUSED DISCONNECT AND METER BASE PER N.E.C. ARTICLE 240-21 WITH TEN FOOT (10) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SHALL BE LISTED SAME OR BETTER INTERRUPTING RATING AS EXISTING SOURCE OF SUPPLY.

C - RF (COAX) AND LOW VOLTAGE CABLE

- C1. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA SHALL BE SUPPORTED USING ANDREW "SNAP-IN" HANGERS OR ACCEPTABLE EQUAL.
- 2. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA SHALL BE ROUTED AS FOLLOWS:
 - A) RUNNING ALONG HORIZONTAL SURFACES: USE WAVEGUIDE SUPPORTS OR BRIDGE KIT MOUNTED ON CONCRETE SLEEPERS.
 - B) RUNNING ALONG VERTICAL TOWER FACE: WAVEGUIDE LADDER W/HANGERS OR KELLEMS GRIPS.
 - C) RUNNING ALONG OR ADJACENT TO BTS PLATFORM: USE 12 X 3 OPEN OR COVERED ELECTRICAL LADDER TRAY.

D - IDENTIFICATION

- D1. LOCATE NAMEPLATE, MARKING, OR OTHER IDENTIFICATION MEANS ON OUTSIDE EQUIPMENT OR BOX FRONT COVERS.
- D2. PROVIDE NAMEPLATE ENGRAVED WITH EQUIPMENT DESIGNATION FOR EACH SAFETY SWITCH AND ALL OTHER ELECTRICAL CABINETS. ETC.
- D3. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

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Ρ	ROJECT NO.:	:		25–5	114			
	DRAWN BY:			J. EL	IZONDO			
PROJ	ECT MANAG	ER:	R: O. RIVERA					
	CHECKED BY			0. F	RIVERA			
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DESCRIPTION

REV DATE

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CERTIFICATE OF AUTHORIZATION 33693



7025 A.C. SKINNER PARKWAY JACKSONVILLE, FL 32256



9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

ELECTRICAL NOTES

SHEET NUMBER

E1

ELECTRICAL NOTES

| 1

A - GENERAL

- A1. INSTALLATION OF GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND WITH ALL BUILDING CODES OF AUTHORITIES HAVING JURISDICTION.
- A2. GROUNDING CONDUCTORS SHALL BE #2 AWG TINNED SOLID BARE COPPER BELOW AND ABOVE GRADE, UNLESS OTHERWISE NOTED AND SHALL BE ROUTED IN A DOWNWARD PATH TOWARDS GROUND BARS.
- A3. GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AND DIRECT AS POSSIBLE WITH MINIMUM BEND RADIUS OF 12 INCHES.
- A4. ALL BELOW GRADE CONNECTIONS SHALL BE CADWELD TYPE CONNECTIONS AND ALL CONNECTIONS TO EQUIPMENT AND GROUND BARS SHALL BE 2-HOLE BRONZE COMPRESSION CONNECTORS UNLESS OTHERWISE NOTED.
- A5. CONTRACTOR SHALL INSTALL NEW PCS GROUNDING SYSTEM PER SPECIFICATIONS AND INTERCONNECT NEW SYSTEMS TO ANY EXISTING GROUNDING SYSTEMS AS REQUIRED BY NFPA 70 AND 780 (THIS APPLIES TO ELECTRICAL POWER DISTRIBUTION GROUNDING SYSTEM, LIGHTNING PROTECTION GROUNDING SYSTEM, COAX CABLE GROUNDING SYSTEM AND ANY OTHER EXISTING GROUNDING SYSTEMS).
- A6. GROUNDING CONDUCTORS SHALL BE BONDED TO CABLE SUPPORTS, ANTENNA FRAMES, AND ANY SUPPORT FRAMES OR RACKS USING CADWELD OR MECHANICAL CONNECTIONS.
- A7. CONTRACTOR SHALL PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS, STAINLESS STEEL HARDWARE SHALL BE USED THROUGHOUT.
- A8. GROUNDING CONDUCTORS EMBEDDED IN CONCRETE OR PENETRATING WALLS AND FLOORS SHALL BE ENCASED IN PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS UNLESS REQUIRED BY LOCAL CODES OR OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION AND VERMIN INFESTATION.
- A9. CONTRACTOR SHALL BOND PCS GROUNDING SYSTEM VIA THE MASTER GROUND BAR TO ALL METAL OBJECTS WITHIN 12 FEET OF EQUIPMENT, CONDUIT AND CABLES.
- A10. BONDING OF GROUNDED CONDUCTOR (NEUTRAL) AND GROUNDING CONDUCTOR SHALL BE AT SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-28.
- A11. CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING FOR GROUNDING CONDUCTORS WHERE APPLICABLE.
- A12. A GROUND LEAD IS REQUIRED ONLY FOR BTS SUPPORTED ON STEEL FRAME. AN ADDITIONAL GROUND LEAD IS REQUIRED IF CABLE TRAY IS USED.
- A13. CONNECTIONS TO CGB SHALL BE ARRANGED IN THE FOLLOWING THREE GROUPS:
 - * SURGE PRODUCERS (COAXIAL CABLE GROUND KITS. TELCO CABINET AND POWER PEDESTAL GROUND).
 - * SURGE ABSORBERS (GROUNDING ELECTRODE RING OR BUILDING STEEL).
 - * NON-SURGING OBJECTS (EGB GROUND IN BTS).
- A14. DOUBLING OR STACKING OF ANY GROUNDING CONNECTIONS IS NOT ACCEPTABLE.
- A15. ALL GROUND BARS SHALL BE INSTALLED WITH STAND OFF INSULATORS.

B - PREPARATION

- B1. SURFACES: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED TO ENSURE PROPER CONTACT. ALL GALVANIZED SURFACES ON WHICH GALVANIZING HAS BEEN REMOVED BY CUTTING, DRILLING, OR ANY OTHER OPERATION SHALL BE RE—GALVANIZED IN ACCORDANCE WITH ASTM A780 USING "ZINC RICH" COATING AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS COMPANY (LOCATED IN QUINCY, MASSACHUSETTS), OR ACCEPTABLE EQUAL. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON—OXIDIZING AGENT ("COPPER SHIELD") APPLIED PRIOR TO INSTALLATION.
- B2. GROUND BAR: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED. NO FINGER PRINTS OR DISCOLORED COPPER SHALL BE PERMITTED.

C - BUILDINGS

- C1. ELECTRICAL CONTRACTOR SHALL PERFORM REQUIRED TESTING ON GROUNDING SYSTEM ONCE GROUNDING SYSTEM IS COMPLETELY CONSTRUCTED AND BEFORE SERVICE POWER AND GROUND IS CONNECTED (SEE NOTE T1 FOR TEST DESCRIPTION).
- C2. A #4/O AWG COPPER CONDUCTOR SHALL BE ROUTED FROM MASTER GROUND BAR AT BTS SITE TO MAIN METAL COLD WATER PIPE AND BONDED TO PIPE WITH BRONZE 2-HOLE PIPE CLAMP. CLAMP SHALL BE CONNECTED TO WATER PIPE WITHIN 5 FEET OF ENTRY OF PIPE INTO BUILDING WITH NO DEVICES BETWEEN ENTRY POINT AND CONNECTION AND SHALL COME IN CONTACT WITH PIPE FOR A MINIMUM DISTANCE OF 4 INCHES.
- C3. METAL RACEWAYS, ENCLOSURES, FRAMES AND OTHER NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT SHALL BE KEPT AT LEAST 6 FEET AWAY FROM LIGHTNING ROD CONDUCTORS OR THEY MUST BE BONDED TO LIGHTING ROD CONDUCTORS AT THE LOCATION WHERE SEPARATION DISTANCE IS LESS THAN 6 FEET.
- C4. A MASTER GROUND BAR (MGB) SHALL BE INSTALLED NEAR BTS WITH BUILDING PRINCIPAL GROUND BAR (BPG) INSTALLED NEAR ENTRANCE OF MAIN METAL COLD WATER PIPE INTO BUILDING. A #4/O AWG STRANDED COPPER DOWN CONDUCTOR (VERTICAL GROUND RISER) SHALL BE USED TO INTERCONNECT GROUND BARS.
- C5. VERTICAL RISER SHALL CONSIST OF A #4/O AWG (THWN) STRANDED COPPER CONDUCTOR INSIDE 3/4" CONDUIT.
- C6. CONTRACTOR SHALL BOND BUILDING PRINCIPAL GROUND BAR (BPG) NEAR MAIN METAL COLD WATER PIPE TO EXISTING BUILDING GROUND RING AS WELL AS TO MAIN METAL COLD WATER PIPE WITH #4/O AWG (THWN) STRANDED COPPER CONDUCTOR.
- C7. ANTENNA GROUND BARS (AGB) SHALL BE INSTALLED NEAR ANTENNAS AND SHALL BE BONDED TO MASTER GROUND BAR (MGB) WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR.
- C8. IF CODES REQUIRE VERTICAL RISER TO BE ISOLATED IN CONDUIT, PVC CONDUIT IS PREFERRED. IF METALLIC CONDUIT IS USED, GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF THE CONDUIT AND BONDED TO GROUND BARS USING #2 AWG (THWN) STRANDED COPPER CONDUCTORS WITH GREEN INSULATION.

D - LAND BUILDS AND CO-LOCATES

- 11. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS UNIFORMLY SPACED AROUND THE EQUIPMENT FOUNDATION AND AROUND THE PERIMETER OF THE TOWER FOUNDATION. THE GROUND RODS SHALL BE ½" X 10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 SOLID TINNED BARE COPPER GROUND CONDUCTOR TO FORM A GROUND RING AT A DEPTH OF 30 INCHES BELOW THE SUFFACE OF THE SOIL. A MINIMUM OF 1 FOOT AND A MAXIMUM OF 3 FEET CLEARANCES SHALL BE MAINTAINED FROM FOUNDATIONS. TOWER AND EQUIPMENT GROUND RINGS SHALL BE INTERCONNECTED WITH TWO GROUNDING CONDUCTORS OF EQUAL LENGTH AND MATERIALS.
- D2. GROUND RODS SHALL BE BONDED TO GROUND RINGS AND INTERCONNECTING CONDUCTORS AT EQUAL INTERVALS OF APPROXIMATELY 10 FEET.
- D3. WAVEGUIDE BRIDGE SHALL BE BONDED TO GROUND RINGS OR INTERCONNECTING CONDUCTORS WITH GROUNDING CONDUCTORS BONDED TO DIAGONALLY OPPOSED SUPPORT POSTS.
- D4. GROUND BARS SHALL BE BONDED TO GROUND RING WITH SINGLE GROUNDING CONDUCTOR.
- D5. BONDS TO ANTENNA MASTS, FENCE POSTS, WAVEGUIDE BRIDGE, TOWER STEEL (UNLESS PROHIBITED BY TOWER MANUFACTURER) AND THOSE BELOW GRADE SHALL BE EXOTHERMIC TYPE (CADWELD). ALL OTHER BONDS SHALL BE BRONZE 2-HOLE COMPRESSION FITTINGS UNLESS OTHERWISE NOTED.
- D6. GROUNDING CONDUCTORS MAKING A TRANSITION FROM ABOVE TO BELOW GRADE SHALL BE INSULATED FROM EARTH CONTACT BY PASSING THROUGH PVC CONDUIT. THE CONDUIT SHALL EXTEND AT LEAST 6 INCHES ABOVE AND 12 INCHES BELOW GRADE LEVEL.

E - LIGHTNING PROTECTION

- E1. IF EXISTING BUILDING HAS AN NFPA 780 AIR TERMINAL SYSTEM, EXISTING SYSTEM SHALL BE BONDED TO A GROUND BAR TO BOND THE EXISTING SYSTEM TO THE NEW SYSTEM. SHOULD THE EXISTING SYSTEM COME WITHIN 8 FEET OF ANTENNA STRUCTURES, EXISTING SYSTEM SHALL ALSO BE BONDED TO COAX GROUND BARS.
- E2. IF SITE IS IN A HIGH RISK AREA AND ANTENNAS DO NOT FALL WITHIN EXISTING CONE OF PROTECTION FOR BUILDING, AIR TERMINALS SHALL BE INSTALLED AT ANTENNAS. A SINGLE AIR TERMINAL MAY BE USED WHEN TWO ANTENNAS ARE MOUNTED ON SAME STRUCTURE AND IT HAS BEEN DETERMINED THAT BOTH ANTENNAS WILL FALL WITHIN LIGHTNING CONE OF PROTECTION FOR SINGLE AIR TERMINAL

T - GROUNDING REQUIREMENTS

- T1. CONTRACTOR SHALL INSPECT AND TEST ANY NEW OR EXISTING T-MOBILE GROUNDING SYSTEM WITH A BIDDLE-MEGGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT DOCUMENTATION.
- T2. COAX CABLE OUTER CONDUCTORS (SHIELDS) SHALL BE GROUNDED USING COAX GROUNDING KITS AT A MINIMUM OF TWO POINTS, INCLUDING AT ANTENNA AND AT MASTER GROUND BAR. THE COAXIAL CABLE SHALL NOT EXCEED 100 FEET BETWEEN GROUNDING KITS.
- T3. GROUNDING CONDUCTOR CONSISTING OF 2-#2 AWG TINNED SOLID BARE COPPER WIRE SHALL BE BONDED TO WAVEGUIDE ENTRY GROUND BAR USING CADWELD CONNECTIONS.
- 4. COAX CABLE ENTERING A BUILDING SHALL BE GROUNDED WITH COAX GROUNDING KITS TO AN INSULATED COAX GROUND BAR WHICH SHALL BE INSTALLED ON THE OUTSIDE FACE OF THE BUILDING, BELOW THE CABLE ENTRY PORTS.
- T5. WHEN COAX CABLES ENTER A BUILDING FROM A TOWER, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE EXTERNAL GROUND RING USING 2-#2 AWG BARE TINNED SOLID COPPER ISOLATED IN PVC CONDUIT.
- T6. WHEN COAX CABLES ENTER A BUILDING FROM A ROOF TOP, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE MASTER GROUND BAR NEAR THE BTS USING #2 AWG STRANDED INSULATED COPPER CONDUCTOR (SEE BUILDINGS NOTES ON THIS DRAWING FOR CONNECTION TO PRINCIPLE GROUND BAR AND BUILDING GROUND).

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	DRAWN BY:		J. ELIZONDO				
PRO	JECT MANAG	ER:		0. F	RIVERA		
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DESCRIPTION

PRELIM PLANS

REV DATE

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7025 A.C. SKINNER PARKWAY JACKSONVILLE, FL 32256



9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

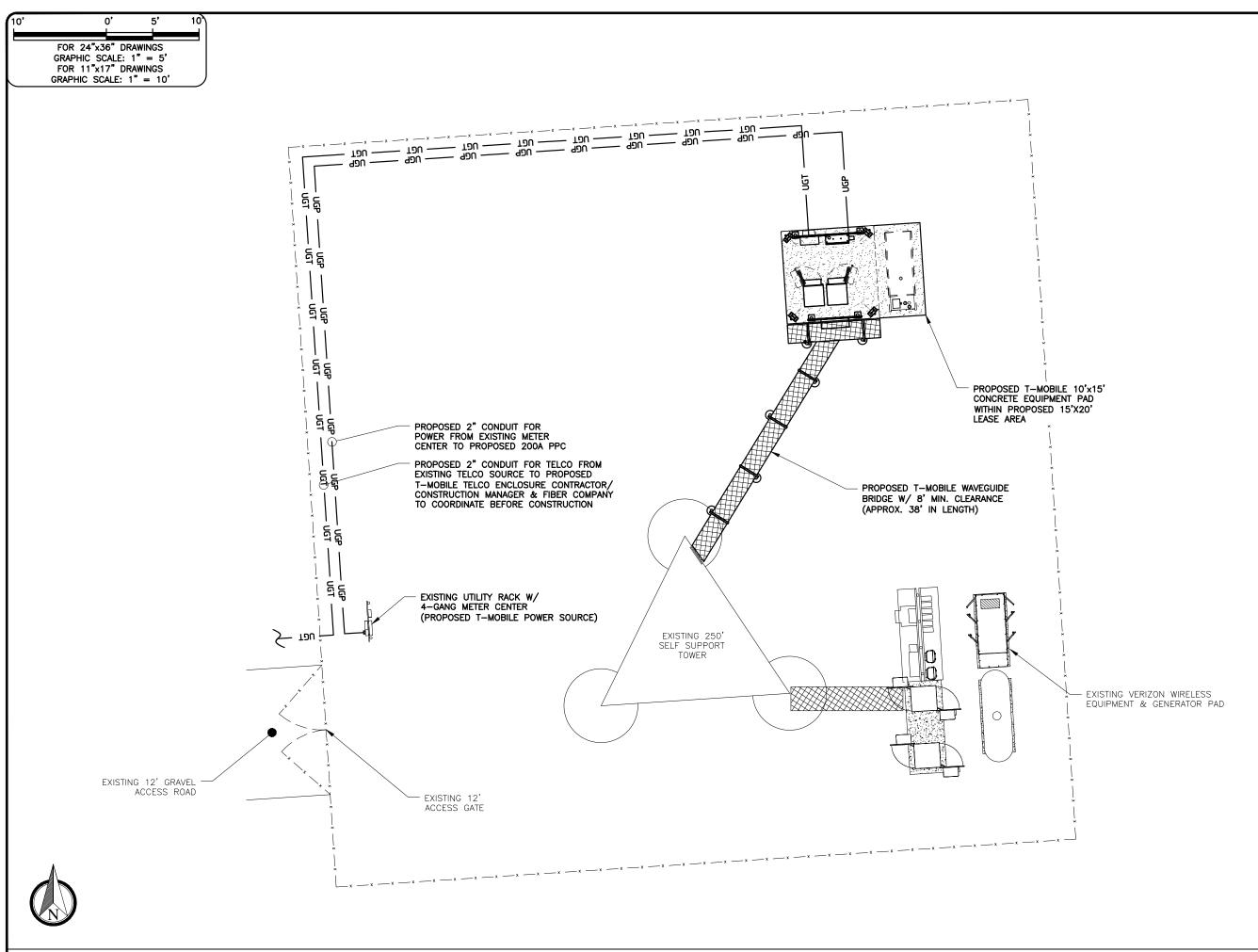
GROUNDING NOTES

SHEET NUMBER

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GROUNDING NOTES

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	DRAWN BY:		J.	ELIZ	ONDO
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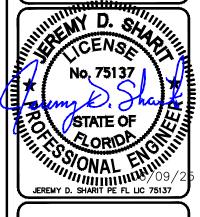


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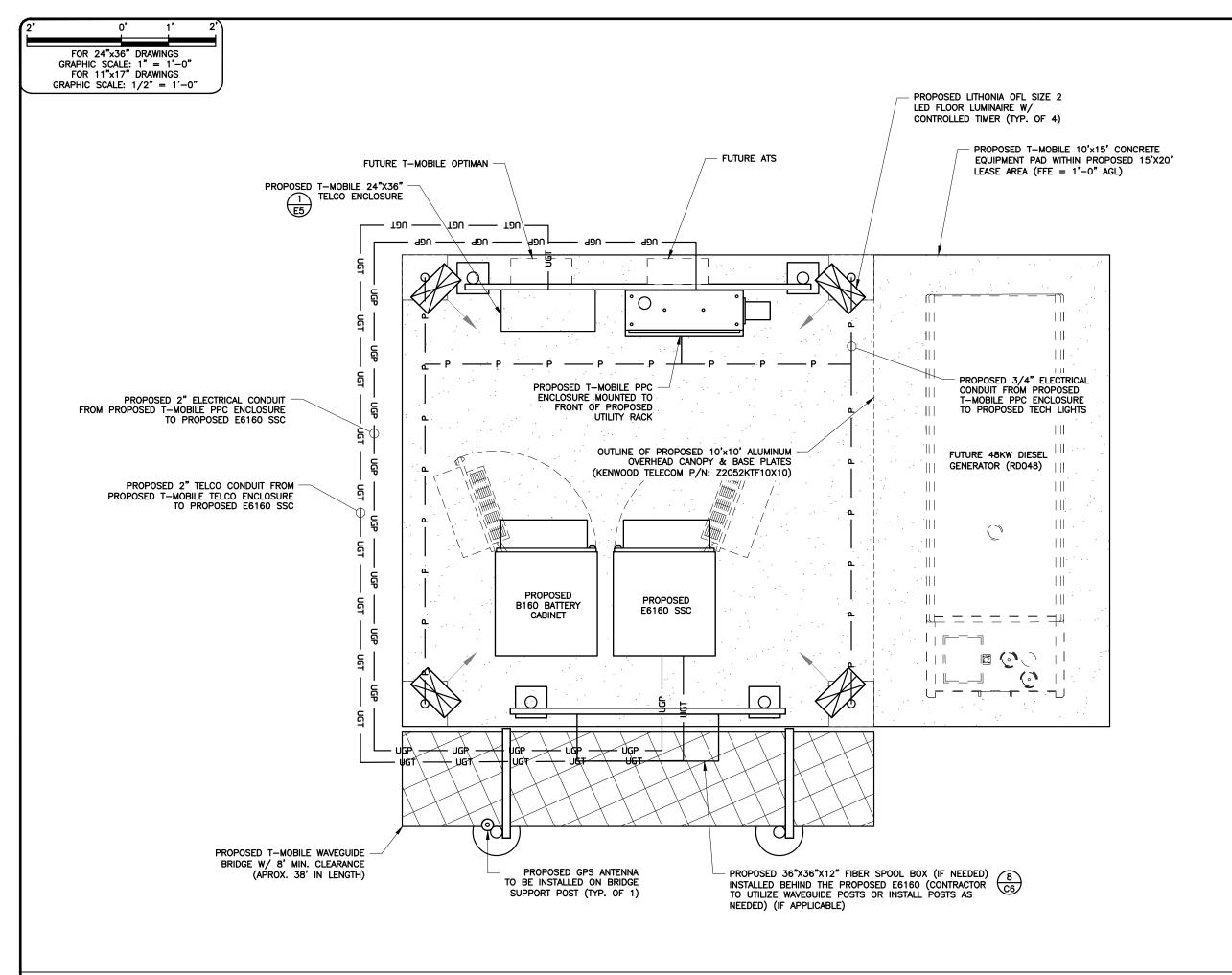
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SHEET NAME

OVERALL POWER/TELCO ROUTING PLAN

SHEET NUMBER

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	DRAWN BY:		J. EL	.IZONDO		
PROJ	ECT MANAG	ER:	0. 1	RIVERA		

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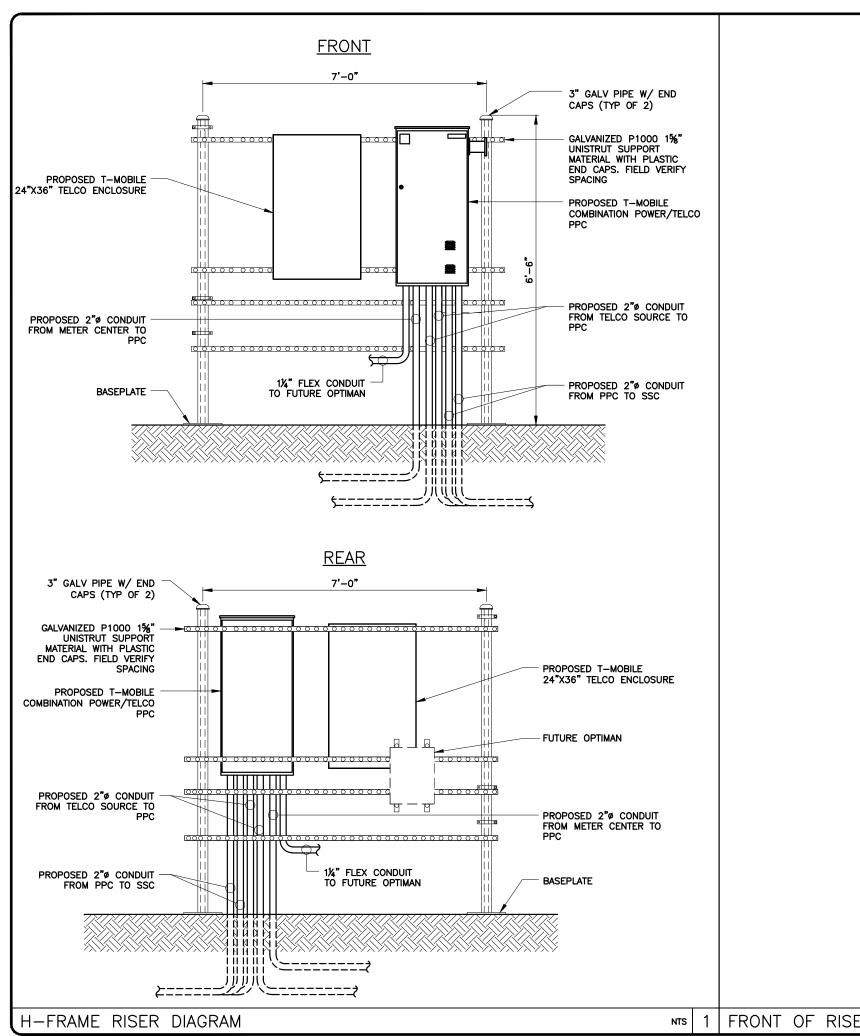
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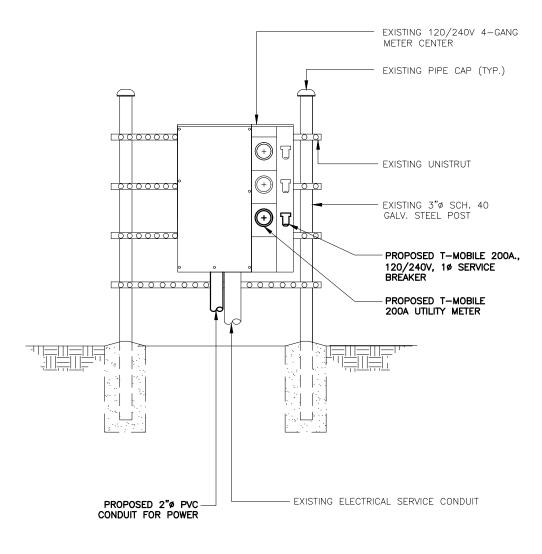
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T-MOBILE POWER/TELCO ROUTING PLAN

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DRAWN BY:	J. ELIZONDO				
ECT MANAG	ER: O. RIVERA				
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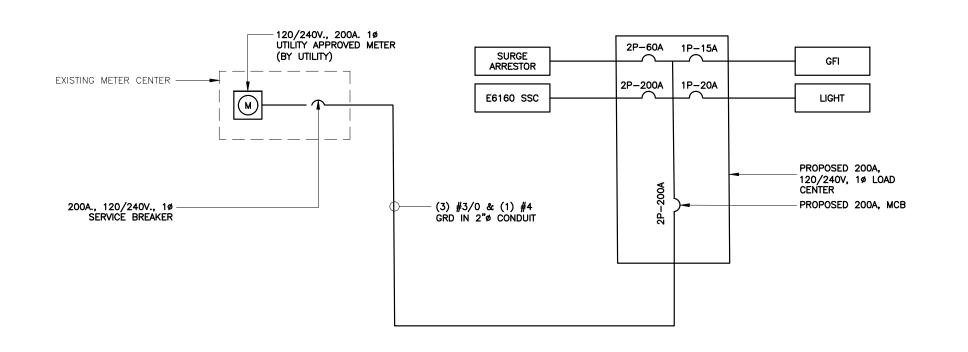
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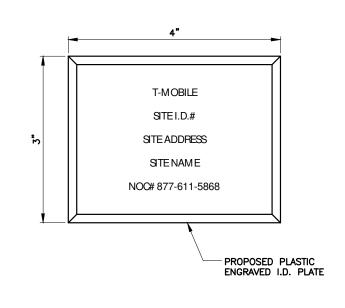
DIAGRAMS

SHEET NUMBER

FRONT OF RISER DIAGRAM



AC ONE—LINE DIAGRAM



PANEL LOCAT		PANE	L RAT	ING	4	15.	AMPS VOLTS		PHASE	1				200 MCB RATING 200 MAIN LUG ONLY 65K AV	AMP	1
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PROJ	ECT MANAG	ER:	0.	RIVERA

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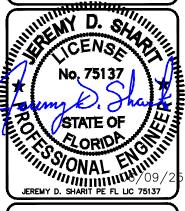


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9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

SHEET NAME

ONE-LINE DIAGRAM &
PANEL SCHEDULE

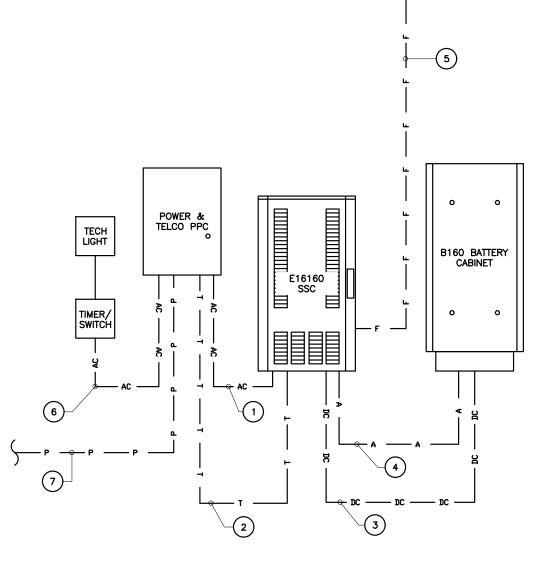
SHEET NUMBER

E6

175 2 PANEL SCHEDULE

SITE ID PLATE (PROPOSED METER & PPC)

SYM	TYPE	FROM	то
1	2"ø CONDUIT W (3) #3/0 & (1) #4 GROUND	AC PANEL	E6160 SSC
2	(2)-1½"ø CONDUIT W/ TELCO CABLE	TELCO ENC.	E6160 SSC
3	1½"ø CONDUIT W/ DC CONDUCTORS	E6160 SSC	BATTERY CABINET
4	1"ø CONDUIT W/ (15) PAIR ALARM CABLE	BATTERY CABINET	E6160 SSC
5	HYBRID TRUNK CABLE	E6160 SSC	TOWER TOP
6	¾"ø CONDUIT W/ (2) #12 (1) #12 GROUND	AC PANEL	TECH LIGHT
7	2"Ø PVC CONDUIT FOR POWER	SOURCE	AC PANEL



TO TOWER

NOTES:

- 1. PROPOSED CONDUIT ROUTING IS SCHEMATIC ONLY, CONTRACTOR SHALL DETERMINE SUITABLE ROUTING IN THE FIELD.
- PROPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL APART FROM PORTION ENTERING EQUIPMENT CABINET, WHICH SHALL BE FLEXIBLE LIQUID TIGHT CONDUIT.

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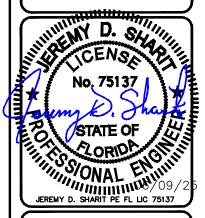


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CERTIFICATE OF AUTHORIZATION 33693



7025 A.C. SKINNER PARKWAY JACKSONVILLE, FL 32256



9JKJ2254A #9JK2254A

6295 SE COUNTY ROAD 245 LAKE CITY, FLORIDA 32025 (COLUMBIA COUNTY)

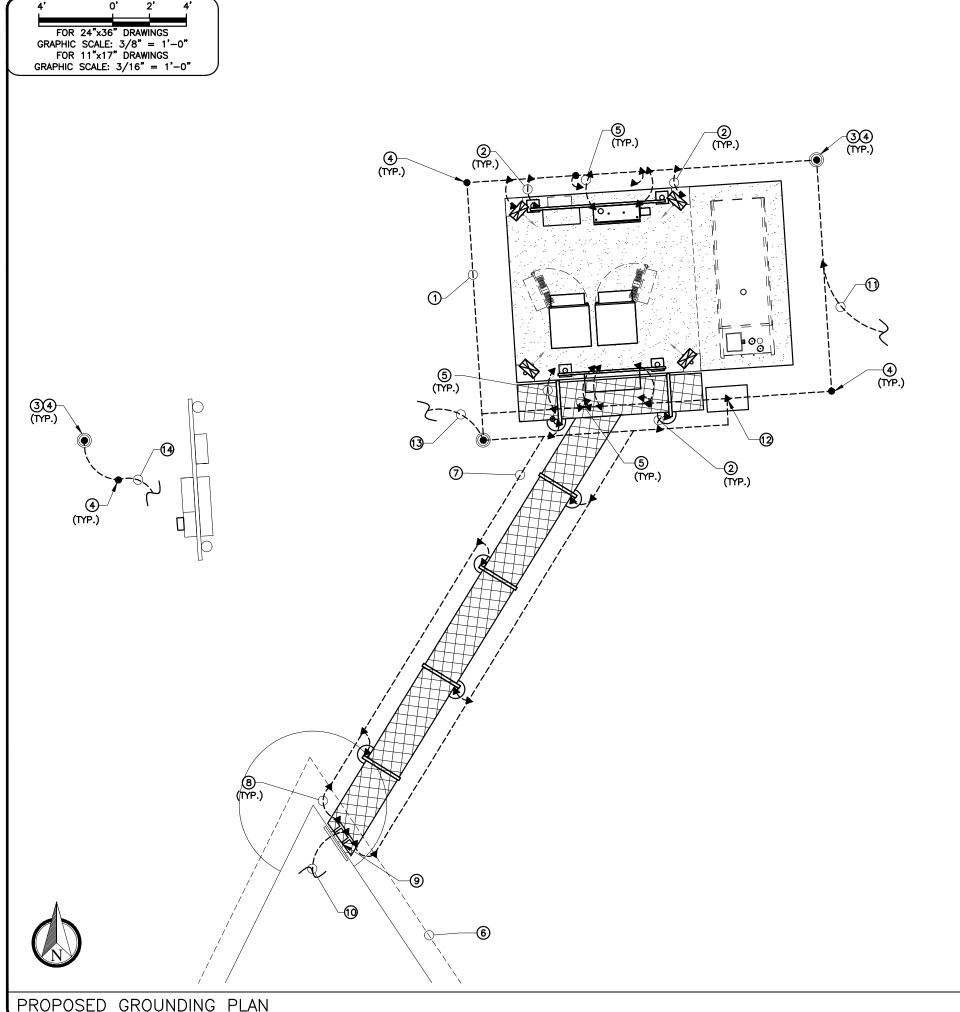
SHEET NAME

CONDUIT ROUTING

PLAN

SHEET NUMBER

E7



GROUNDING KEY NOTES:

- 1 PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE EQUIPMENT PAD. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 18" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). WHERE REQUIRED DUE TO SOIL CONDITIONS AND THE PRESENCE OF ROCK, THE ROUTING OF THE GROUND RING MAY BE ADJUSTED (WITH APPROVAL FROM T-MOBILE). ALL BONDS TO THE BURIED GROUND RI SHALL BE WITH EXOTHERMIC WELDS.
- (2) BOND COAX BRIDGE, AND UTILITY RACK POSTS TO BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO EACH POST AT 12" ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
- (3) PROVIDE 6" DIAMETER PVC INSPECTION SLEEVE WITH REMOVABLE COVER IN LOCATION SHOWN. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET E9, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
- (4) INSTALL %" x 10' LONG COPPERCLAD STEEL GROUND RODS. SPACING BETWEEN RODS NOT TO EXCEED 16' (NONLINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET E9. IF ROCK IS ENCOUNTERED, GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30° FROM VERTICAL AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT
- (5) #2 AWG BARE, TINNED, SOLID COPPER CASE BOND
- (6) EXISTING TOWER GROUND RING
- 7 #2 AWG SOLID BARE TINNED COPPER FROM T-MOBILE GROUND RING TO TOWER GROUND RING. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 18" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
- (8) INSTALL GROUNDING CONDUCTOR(S) FROM THE BURIED GROUND RING FOR CONNECTION TO THE GROUND BAR AT BOTTOM OF TOWER. VERIFY EXACT LOCATION OF GROUNDING BAR AND PROPER CONDUCTOR LENGTH. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTOR (LENGTH AS REQUIRED) TO THE GROUND BAR, GROUNDING CONDUCTORS MUST BE HELD AWAY FROM TOWER BY USING STANDOFFS OR ROUTING THE CONDUCTORS IN FLEXIBLE PVC CONDUIT. COORDINATE LOCATION WITH T-MOBILE CONSTRUCTION MANAGER.
- (9) INSTALL GROUND BAR TO TOWER/WAVEGUIDE BRIDGE. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTORS BETWEEN MGB AND GROUND RING. SEE E9 FOR DETAILS.
- (10) #2 INSULATED/STRANDED ANTENNA AND COAX BOND
- (1) PROVIDE #2 AWG SOLID BARE TINNED COPPER WIRE TO ANY METAL WITHIN 6" OF PROPOSED GROUND RING.
- (12) BELOW GRADE GROUND WINDOW. SEE SHEET E9 FOR DETAILS
- (3) #2 AWG BOND TO FENCE GROUND RING (IF AVAILABLE) OR NEAREST
- (14) #2 AWG SERVICE GROUND CONDUCTOR, IN 3/4" PVC CONDUIT

KEY

- ▼ BOND
- GROUND ROD
- INSPECTION WELL

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A 02/24/25

DESCRIPTION

PRELIM PLANS

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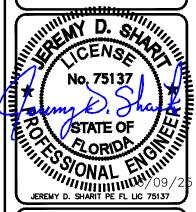


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SHEET NAME **PROPOSED**

GROUNDING PLAN

SHEET NUMBER

E8

