



VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: SHOEHORN NC  
 ATC SITE NUMBER: 280848  
 AT&T PACE NUMBER: MRCAR033520  
 AT&T SITE ID: ECL05406  
 AT&T FA CODE: 12682237  
 AT&T SITE NAME: 368-540  
 SITE ADDRESS: 9316 NC 42  
 HOLLY SPRINGS, NC 27540



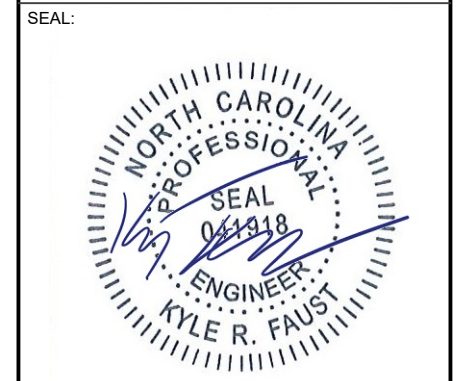
LOCATION MAP

**AMERICAN TOWER®**  
 A.T. ENGINEERING SERVICE, PLLC  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: P-1177

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:  
**280848**  
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DATE DRAWN: 11/24/20  
 ATC JOB NO: 13247756\_G4  
 CUSTOMER ID: ECL05406  
 CUSTOMER #: 12682237

TITLE SHEET

SHEET NUMBER:  
**G-001**  
 REVISION:  
**0**

**AT&T MOBILITY COLOCATION PLAN**

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	11/24/20	MG
G-002	APPENDIX B	0	11/24/20	MG
G-003	APPENDIX B	0	11/24/20	MG
G-004	APPENDIX B	0	11/24/20	MG
G-005	APPENDIX B	0	11/24/20	MG
G-006	APPENDIX B	0	11/24/20	MG
G-007	GENERAL NOTES	0	11/24/20	MG
1 OF 2	SITE SURVEY			
2 OF 2	LEGAL DESCRIPTION			
C-101	DETAILED SITE PLAN	0	11/24/20	MG
C-102	DETAILED EQUIPMENT LAYOUT	0	11/24/20	MG
C-201	DETAILED SITE PLAN & TOWER ELEVATION	0	11/24/20	MG
C-401	ANTENNA INFORMATION & SCHEDULE	0	11/24/20	MG
C-501	CONSTRUCTION DETAILS	0	11/24/20	MG
C-502	CONSTRUCTION DETAILS	0	11/24/20	MG
C-503	CONSTRUCTION DETAILS	0	11/24/20	MG
C-504	CONSTRUCTION DETAILS	0	11/24/20	MG
E-101	GROUNDING PLAN	0	11/24/20	MG
E-102	ELECTRICAL ONE-LINE & PANEL SCHEDULE	0	11/24/20	MG
E-501	GROUNDING DETAILS	0	11/24/20	MG
E-502	GROUNDING DETAILS	0	11/24/20	MG
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			

**COMPLIANCE CODE**

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

- 2018 NORTH CAROLINA BUILDING CODE (NCBC)
- 2017 NATIONAL ELECTRIC CODE (NEC) WITH NC AMENDMENTS
- LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

**NOTICE TO CONTRACTOR**  
 All construction must comply with current NC Building Codes and is subject to field inspection and verification.

**APPROVED**  
 Limited building only review  
 Permit holder responsible for full compliance with the code

02/10/2021

**UTILITY COMPANIES**

POWER COMPANY: DUKE ENERGY  
 PHONE: (800) 777-9898

TELEPHONE COMPANY: AT&T  
 PHONE: (800) 331-0500

**Know what's below.  
 Call before you dig.**

**PROJECT SUMMARY**

SITE ADDRESS:  
 9316 NC 42  
 HOLLY SPRINGS, NC 27540  
 COUNTY: HARNETT

GEOGRAPHIC COORDINATES:  
 LATITUDE: 35.558333  
 LONGITUDE: -78.915586  
 GROUND ELEVATION: 402' AMSL

**PROJECT TEAM**

<u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801	<u>APPLICANT:</u> AT&T MOBILITY
<u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518	
<u>PROPERTY OWNER:</u> SAMMIE FRANCIS AUSTIN 9316 NC 42 HOLLY SPRINGS, NC 27540	

**PROJECT DESCRIPTION**

THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS IN A PROPOSED WIC AND GENERATOR INSIDE A 15' X 24' GROUND SPACE WITHIN THE EXISTING COMPOUND, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.

**PROJECT NOTES**

- THE FACILITY IS UNMANNED.
- A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
- THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
- NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
- HANDICAP ACCESS IS NOT REQUIRED.

**PROJECT LOCATION DIRECTIONS**

FROM MAIN STREET FUQUAY-VARINA, NC TAKE 42 WEST 7.1 MI., ACCESS ROAD TO THE TOWER IS ON THE LEFT WITH AN ACCESS GATE.

**2018 APPENDIX B**  
**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**  
**(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**  
 (Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: AT&T MOBILITY UPGRADE PROJECT - SITE ID ECL05406  
 Address: 9316 NC 42 HOLLY SPRINGS, NC 27540 Zip Code 27540  
 Owner/Authorized Agent: AMERICAN TOWER, LLC Phone # ( 919 ) 468 - 0112 E-Mail AE@AMERICANTOWER.COM  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City  County HARNETT  State

**CONTACT:**

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	AMERICAN TOWER, LLC	KYLE FAUST, PE	041918	(919) 466-5028	KYLE.FAUST@AMERICANTOWER.COM
Civil					
Electrical					
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural					
Retaining Walls >5' High					
Other					

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

**2018 NC BUILDING CODE:**  New Building  Addition  Renovation  
 1<sup>st</sup> Time Interior Completion  
 Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements  
 Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

**2018 NC EXISTING BUILDING CODE: EXISTING:**  Prescriptive  Repair  Chapter 14  
 Alteration:  Level I  Level II  Level III  
 Change of Property  Change of Use

**CONSTRUCTED:** (date) \_\_\_\_\_ **CURRENT OCCUPANCY(S)** (Ch. 3): \_\_\_\_\_  
**RENOVATED:** (date) \_\_\_\_\_ **PROPOSED OCCUPANCY(S)** (Ch. 3): \_\_\_\_\_

**RISK CATEGORY** (Table 1604.5):  I  II  III  IV  
 III  IV

**BASIC BUILDING DATA**

**Construction Type:**  I-A  III-A  IV  V-A  
 I-B  III-B  V-B  
**Sprinklers:**  No  Yes  NFPA 13  NFPA 13R  NFPA 13D  
**Standpipes:**  No  Yes  II  III  Wet  Dry  
**Fire District:**  No  Yes **Flood Hazard Area:**  No  Yes  
**Special Inspections Required:**  No  Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

2018 NC Administrative Code and Policies

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 <sup>rd</sup> Floor			
2 <sup>nd</sup> Floor			
Mezzanine			
1 <sup>st</sup> Floor			
Basement			
TOTAL			

**ALLOWABLE AREA**

**Primary Occupancy Classification(s):** Select one  A-1  A-2  A-3  A-4  A-5

- Business   
 Educational   
 Factory  F-1 Moderate  F-2 Low  
 Hazardous  H-1 Detonate  H-2 Deflagrate  H-3 Combust  H-4 Health  H-5 HPM  
 Institutional  I-1 Condition  1  2  
 I-2 Condition  1  2  
 I-3 Condition  1  2  3  4  5  
 I-4  
 Mercantile   
 Residential  R-1  R-2  R-3  R-4  
 Storage  S-1 Moderate  S-2 Low  
 Parking Garage  Open  Garage  
 Utility and Miscellaneous

**Accessory Occupancy Classification(s):** \_\_\_\_\_

**Incidental Uses** (Table 509): \_\_\_\_\_

**Special Uses** (Chapter 4 – List C): \_\_\_\_\_

**Special Provisions:** (Chapter 5) \_\_\_\_\_

**Mixed Occupancy:**  No  Yes Separation: \_\_\_\_\_ Hr. Exception: \_\_\_\_\_

Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$_____ + _____ + \dots = _____ \leq 1.00$$

NOT A BUILDING

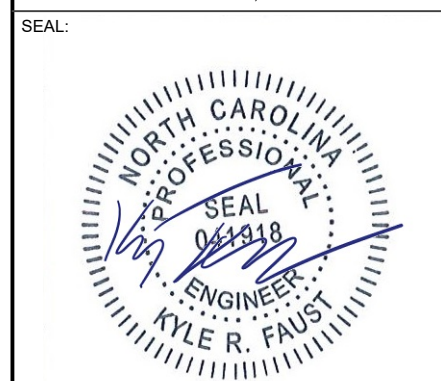
2018 NC Administrative Code and Policies



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0	FOR CONSTRUCTION	MG	11/24/20

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 ATC SITE NAME:  
**SHOEHORN NC**  
 AT&T MOBILITY SITE NAME:  
**368-540**  
 SITE ADDRESS:  
 9316 NC 42  
 HOLLY SPRINGS, NC 27540



DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

**APPENDIX B**

SHEET NUMBER: **G-002** REVISION: **0**

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STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1,5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2,3</sup>

- <sup>1</sup> Frontage area increases from Section 506.2 are computed thus:
- a. Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ (F)
  - b. Total Building Perimeter = \_\_\_\_\_ (P)
  - c. Ratio (F/P) = \_\_\_\_\_ (F/P)
  - d. W = Minimum width of public way = \_\_\_\_\_ (W)
  - e. Percent of frontage increase  $I_f = 100[F/P - 0.25] \times W/30 =$  \_\_\_\_\_ (%)

<sup>2</sup> Unlimited area applicable under conditions of Section 507.

<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

<sup>5</sup> Frontage increase is based on the unsprinklered area value in Table 506.2.

**ALLOWABLE HEIGHT**

	ALLOWABLE HEIGHT	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.4)			

<sup>1</sup> Provide code reference if the "Shown on Plans" quantity is not shown in Table 504.4.

N/A  
NOT A BUILDING

**FIRE PROTECTION REQUIREMENTS**

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (w/ _____ * REDUCTION)				
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction							
Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/Sleeping Unit Separation							
Incidental Use Separation							

N/A  
NOT A BUILDING

\* Indicate section number permitting reduction



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AT&T MOBILITY SITE NAME:

**368-540**

SITE ADDRESS:

9316 NC 42  
 HOLLY SPRINGS, NC 27540

SEAL:



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CUSTOMER #:	12682237

**APPENDIX B**

SHEET NUMBER:	REVISION:
<b>G-003</b>	<b>0</b>

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**APPENDIX B**

SHEET NUMBER: **G-004**      REVISION: **0**

**PERCENTAGE OF WALL OPENING CALCULATIONS**

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

**LIFE SAFETY SYSTEM REQUIREMENTS**

- Emergency Lighting:  No  Yes
- Exit Signs:  No  Yes
- Fire Alarm:  No  Yes
- Smoke Detection Systems:  No  Yes  Partial \_\_\_\_\_
- Carbon Monoxide Detection:  No  Yes

**LIFE SAFETY PLAN REQUIREMENTS**

Life Safety Plan Sheet #: \_\_\_\_\_

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not shown)
- Exterior wall opening area with respect to distance from property lines (705.8)
- Occupancy Use for each area as it relates to fire and smoke protection (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distances (1017)
- Common path of travel distance (1006.3.2(1))
- Dead end lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load for each exit door can accommodate based on egress width (1005.3)
- Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- The square footage of each fire area (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

2018 NC Administrative Code and Policies

**ACCESSIBLE DWELLING UNITS (SECTION 1107)**

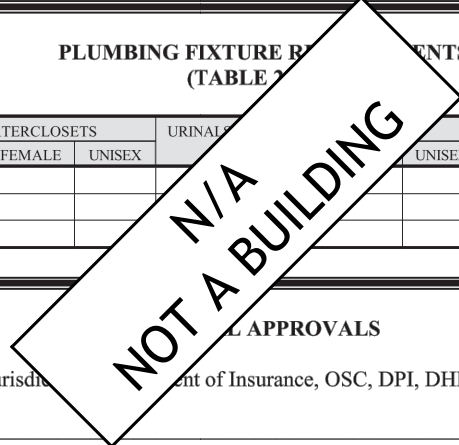
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

**ACCESSIBLE PARKING (SECTION 1106)**

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH		
				132" ACCESS AISLE	8' ACCESS AISLE	
TOTAL						

**PLUMBING FIXTURE REQUIREMENTS (TABLE 1103)**

USE	SPACE	WATERCLOSETS			URINALS	SHOWERS / TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX			REGULAR	ACCESSIBLE
EXIST'G								
NEW								
REQ'D								



**LOCAL APPROVALS**

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

2018 NC Administrative Code and Policies

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**APPENDIX B**

SHEET NUMBER:  
**G-005**

REVISION:  
**0**

**2018 APPENDIX B**  
**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**  
**STRUCTURAL DESIGN**  
 (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

**DESIGN LOADS:**

**Importance Factors:** Snow (I<sub>s</sub>) \_\_\_\_\_  
 Seismic (I<sub>E</sub>) \_\_\_\_\_

**Live Loads:** Roof \_\_\_\_\_ psf  
 Mezzanine \_\_\_\_\_ psf  
 Floor \_\_\_\_\_ psf

**Ground Snow Load:** \_\_\_\_\_ psf

**Wind Load:** Basic Wind Speed \_\_\_\_\_ mph (ASCE-7)  
 Exposure Category \_\_\_\_\_

**SEISMIC DESIGN CATEGORY:**  A  B  C  D

Provide the following Seismic Design Parameters:  
**Risk Category** (Table 1604.5)  I  II  III  
**Spectral Response Acceleration** S<sub>s</sub> \_\_\_\_\_ S<sub>1</sub> \_\_\_\_\_ %g  
**Site Classification** (ASCE 7)  A  B  C  D  E  F  
 Data Source:  Field Test  Historical Data  
**Basic structural system**  Be  Bm  Bf  Bc  Bp  Bt  
 Dual w/Special Moment Frame  
 Dual w/Intermediate R/C or Special Steel  
 Inverted Pendulum  
**Analysis Procedure:**  Equivalent Lateral Force  Dynamic  
**Architectural, Mechanical, Electrical, and Plumbing (A/E/M/P) Load?**  Yes  No

**LATERAL DESIGN CONTROLS:**  Wind

**SOIL BEARING CAPACITIES:**  
 Field Test (provide copy of test report) \_\_\_\_\_ psf  
 Presumptive Bearing capacity \_\_\_\_\_ psf  
 Pile size, type, and capacity \_\_\_\_\_

**ENERGY SUMMARY**

**ENERGY REQUIREMENTS:**  
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

**Existing building envelope complies with code:**  No  Yes (The remainder of this section is not applicable)

**Exempt Building:**  No  Yes (Provide code or statutory reference): \_\_\_\_\_

**Climate Zone:**  3A  4A  5A

**Method of Compliance:** Energy Code  Performance  Prescriptive  
 ASHRAE 90.1  Performance  Prescriptive  
 (If "Other" specify source here) \_\_\_\_\_

**THERMAL ENVELOPE** (Prescriptive method only)

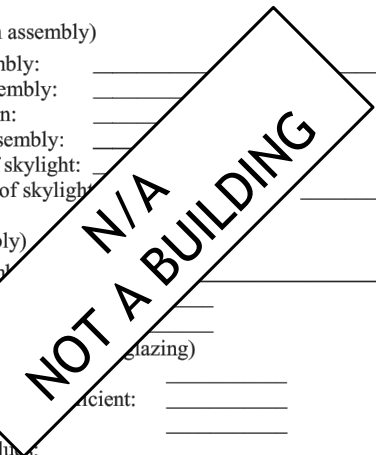
**Roof/ceiling Assembly** (each assembly)  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_  
 Skylights in each assembly:  
 U-Value of skylight: \_\_\_\_\_  
 total square footage of skylight: \_\_\_\_\_

**Exterior Walls** (each assembly)  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_  
 Openings (windows, doors, glazing)  
 U-Value of opening: \_\_\_\_\_  
 Solar heat gain coefficient: \_\_\_\_\_  
 projection: \_\_\_\_\_  
 Door R-Value: \_\_\_\_\_

**Walls below grade** (each assembly)  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_

**Floors over unconditioned space** (each assembly)  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_

**Floors slab on grade**  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_  
 Horizontal/vertical requirement: \_\_\_\_\_  
 slab heated: \_\_\_\_\_



**2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
MECHANICAL DESIGN  
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)**

**MECHANICAL SUMMARY**

**MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT**

**Thermal Zone**

winter dry bulb: \_\_\_\_\_  
summer dry bulb: \_\_\_\_\_

**Interior design conditions**

winter dry bulb: \_\_\_\_\_  
summer dry bulb: \_\_\_\_\_  
relative humidity: \_\_\_\_\_

**Building heating load:** \_\_\_\_\_

**Building cooling load:** \_\_\_\_\_

**Mechanical Spacing Conditioning System**

Unitary  
description of unit: \_\_\_\_\_  
heating efficiency: \_\_\_\_\_  
cooling efficiency: \_\_\_\_\_  
size category of unit: \_\_\_\_\_  
Boiler  
Size category: \_\_\_\_\_ reason: \_\_\_\_\_  
Chiller  
Size category: \_\_\_\_\_ reason: \_\_\_\_\_

**List equipment efficiency** \_\_\_\_\_

**2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
ELECTRICAL DESIGN  
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)**

**ELECTRICAL SUMMARY**

**ELECTRICAL SYSTEM AND EQUIPMENT**

**Method of Compliance:** Energy Code  Performance  Prescriptive  
ASHRAE 90.1  Performance  Prescriptive

**Lighting schedule** (each fixture type)

lamp type required in fixture  
number of lamps in fixture  
ballast type used in the fixture  
number of ballasts in fixture  
total wattage per fixture  
total interior wattage specified vs. allowed (whole building or space by space)  
total exterior wattage specified vs. allowed

**Additional Efficiency Package Options  
(When using the 2018 NCECC; not required for other codes)**

- C406.2 More Efficient HVAC Equipment
- C406.3 Reduced Lighting Power Density
- C406.4 Enhanced Digital Lighting Controls
- C406.5 On-Site Renewable Energy
- C406.6 Dedicated Outdoor Air System
- C406.7 Reduced Energy for Domestic Water Heating

**N/A  
NOT A BUILDING**

**N/A  
NOT A BUILDING**



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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:

**280848**

ATC SITE NAME:

**SHOEHORN NC**

AT&T MOBILITY SITE NAME:

**368-540**

SITE ADDRESS:

9316 NC 42  
HOLLY SPRINGS, NC 27540

SEAL:



DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

**APPENDIX B**

SHEET NUMBER: **G-006**      REVISION: **0**

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**GENERAL CONSTRUCTION NOTES:**

1. OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - B. AC/TELCO INTERFACE BOX (PPC)
  - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. BTS EQUIPMENT
2. 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 AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIEIA/ITIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY 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

ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY 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.
27. CONTRACTOR SHALL NOTIFY AT&T MOBILITY 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 APPROVAL.
28. 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.
29. 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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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.
30. 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 AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
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 AS SPECIFIED.
32. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNGRATE, PROTECTED 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.
33. AT&T MOBILITY OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY 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 AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.

**STRUCTURAL STEEL NOTES:**

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
  - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
  - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
  - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
  - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
  - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:

- A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
- E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY 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 PERSONNEL AND
  - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
  - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
  - E. 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.
  - F. 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:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

**CONCRETE AND REINFORCING STEEL NOTES:**

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
2. MIX DESIGN SHALL BE APPROVED BY AT&T MOBILITY REP PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
4. THE FOLLOWING MATERIALS SHALL BE USED:
 

PORTLAND CEMENT:	ASTM C150, TYPE 2
REINFORCEMENT:	ASTM A185, PLAIN STEEL WELDED WIRE FABRIC
REINFORCEMENT BARS:	ASTM A615, GRADE 60, DEFORMED
NORMAL WEIGHT AGGREGATE:	ASTM C33
WATER:	ASTM C 94/C 94M
WELDED WIRE FABRIC:	ASTM A185
ADMIXTURES:	

- |                        |                             |
|------------------------|-----------------------------|
| -WATER-REDUCING AGENT: | ASTM C 494/C 494M, TYPE A   |
| -AIR-ENTERING AGENT:   | ASTM C 260/C 260M           |
| -SUPERPLASTICIZER:     | ASTM C494, TYPE F OR TYPE G |
| -RETARDING:            | ASTM C 494/C 494M, TYPE B   |

5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
6. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
7. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.
8. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.
9. DO NOT WELD OR TACK WELD REINFORCING STEEL.
10. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
11. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
13. FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
15. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
16. DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
17. ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
18. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
19. SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
20. BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
21. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
22. SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.

**ELECTRICAL NOTES:**

1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

**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 OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.**



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 COA: P-1177

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:

**280848**

ATC SITE NAME:

**SHOEHORN NC**

AT&T MOBILITY SITE NAME:

**368-540**

SITE ADDRESS:

9316 NC 42  
 HOLLY SPRINGS, NC 27540

SEAL:



DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

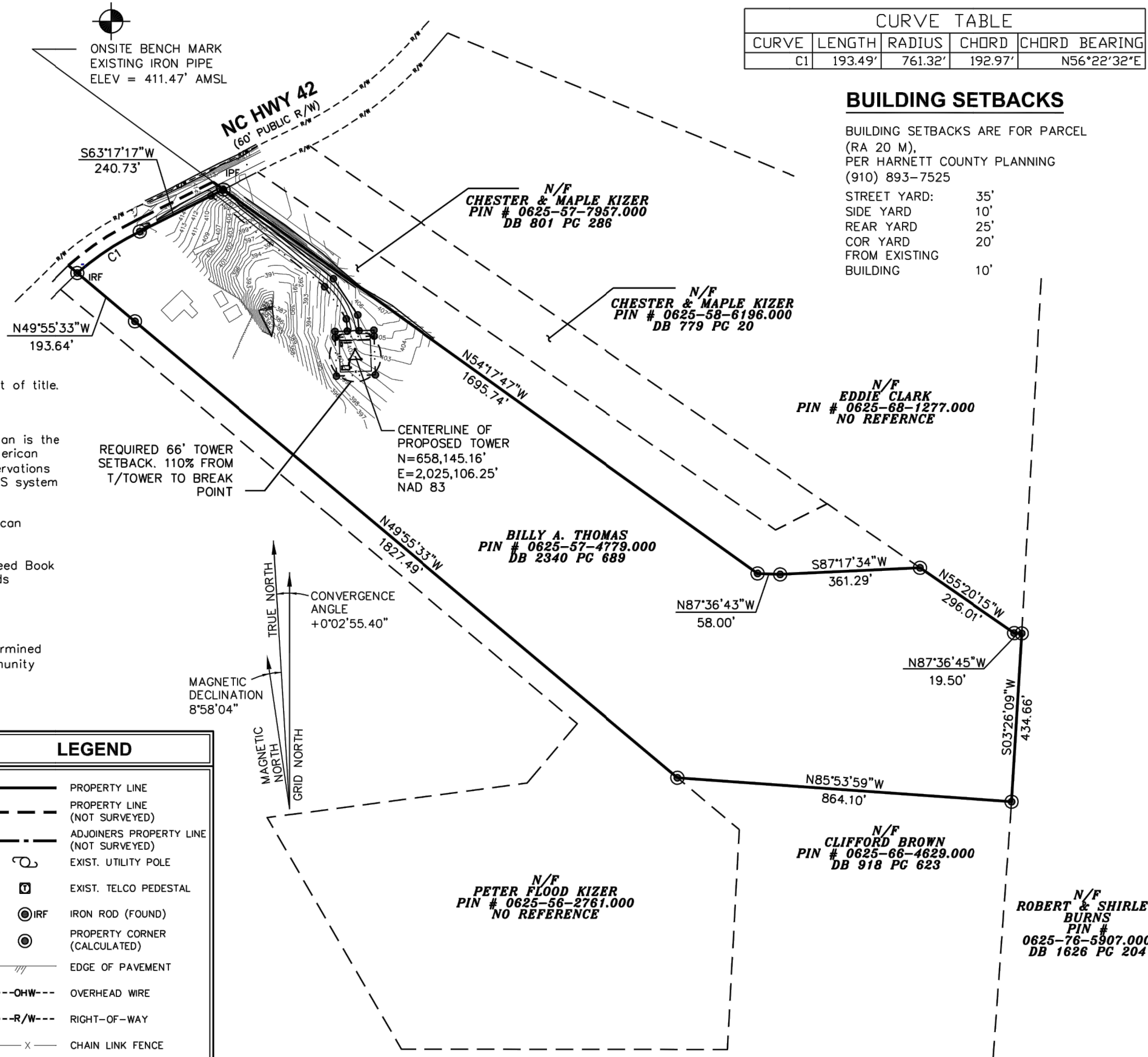
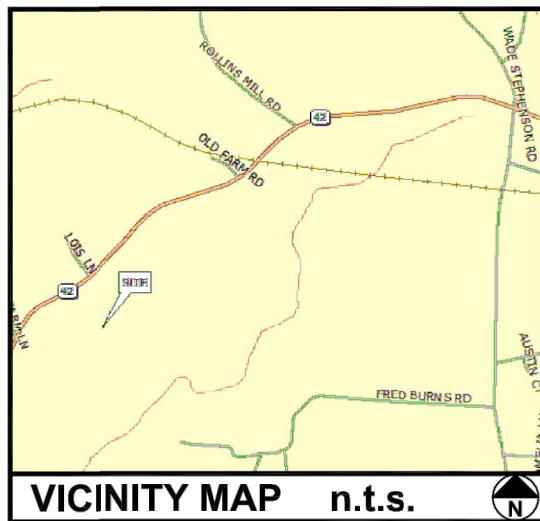
**GENERAL NOTES**

SHEET NUMBER:

**G-007**

REVISION:

**0**



CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	CHORD BEARING
C1	193.49'	761.32'	192.97'	N56°22'32"E

**BUILDING SETBACKS**

BUILDING SETBACKS ARE FOR PARCEL (RA 20 M), PER HARNETT COUNTY PLANNING (910) 893-7525

STREET YARD: 35'  
 SIDE YARD: 10'  
 REAR YARD: 25'  
 COR YARD: 20'  
 FROM EXISTING BUILDING: 10'

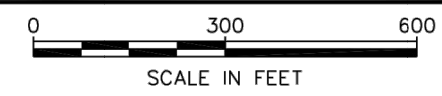
**NOTES**

- This plan was prepared without the benefit of a report of title.
- This plan does not represent a title survey.
- The basis of the bearings and coordinates for this plan is the North Carolina State Plane Coordinate System, North American Datum (NCSPCS/NAD 83) based on differential GPS observations performed on July 9, 2013 and tied to the National CORS system via the OPUS utility and expressed in US Survey Feet.
- Vertical information shown, based on the North American Vertical Datum of 1988 (NAVD '88) in US Survey Feet.
- Property lines are drawn from information found in Deed Book 2340, Page 689, of the Harnett County Register of Deeds records.
- All distances are ground unless otherwise noted.
- This property is located in flood zone "X", areas determined to be outside 0.2% chance of annual flood. (FEMA Community Panel # 3720062400J, effective October 03, 2006).
- All building deminisions are approximate
- Lessee Information:  
American Tower Corporation  
400 Regency Forest Drive  
Cary, NC 27511
- Property Information:  
Billy Thomas  
9316 NC Hwy 42  
Holly Springs, NC 27540

LEGEND	
	PROPERTY LINE
	PROPERTY LINE (NOT SURVEYED)
	ADJOINERS PROPERTY LINE (NOT SURVEYED)
	EXIST. UTILITY POLE
	EXIST. TELCO PEDESTAL
	IRON ROD (FOUND)
	PROPERTY CORNER (CALCULATED)
	EDGE OF PAVEMENT
	OVERHEAD WIRE
	RIGHT-OF-WAY
	CHAIN LINK FENCE
	EXISTING TREE LINE

1A CERTIFICATE	
LATITUDE:	N 35° 33' 29.444" (NAD '27)
LONGITUDE:	W 78° 54' 57.054" (NAD '27)
LATITUDE:	N 35° 33' 30.004" (NAD '83)
LONGITUDE:	W 78° 54' 56.111" (NAD '83)
GROUND ELEV. (AMSL):	402.1± (NAVD '88)

**SITE SURVEY**  
 SCALE: 1" = 300'



PREPARED FOR:

AMERICAN TOWER CORPORATION  
 400 REGENCY FOREST DR.  
 CARY, NC 27511

PROJECT INFORMATION:

**AT&T SITE # 368-540**  
**ATC SITE # 280848**  
**SHOEHORN**  
 9316 NC HWY 42  
 HOLLY SPRINGS, NC 27540  
 (HARNETT COUNTY)

PREPARED BY:

TOWER ENGINEERING PROFESSIONALS  
 3703 JUNCTION BOULEVARD  
 RALEIGH, NC 27603-5263  
 (919) 661-6351  
 NC LICENSE NO. C-1794

**SURVEYOR CERTIFICATE**

I, CLIFFORD BYRD, CERTIFY THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY BY ME OR UNDER MY DIRECT SUPERVISION, (DEED DESCRIPTION RECORDED IN BOOK AND PAGE AS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS BROKEN LINES, DRAWN FROM INFORMATION FOUND IN BOOK AND PAGE AS REFERENCED HEREON; THAT RATIO OF PRECISION AS CALCULATED IS 1: 10,000 OR GREATER; THAT THE AREA IS COMPUTED BY COORDINATE METHOD; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S.47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL, THIS 28 DAY OF AUGUST, 2013.



*Clifford C. Byrd*  
 NORTH CAROLINA PLS # L-3782  
 CLIFFORD C. BYRD

SHEET TITLE:  
**SITE SURVEY**

DATE: 08/28/2013	REVISION: 0
SHEET #: 1 OF 2	TEP #: 47302



**LEGAL DESCRIPTION OF LEASE AREA**

**PARCEL "A"**

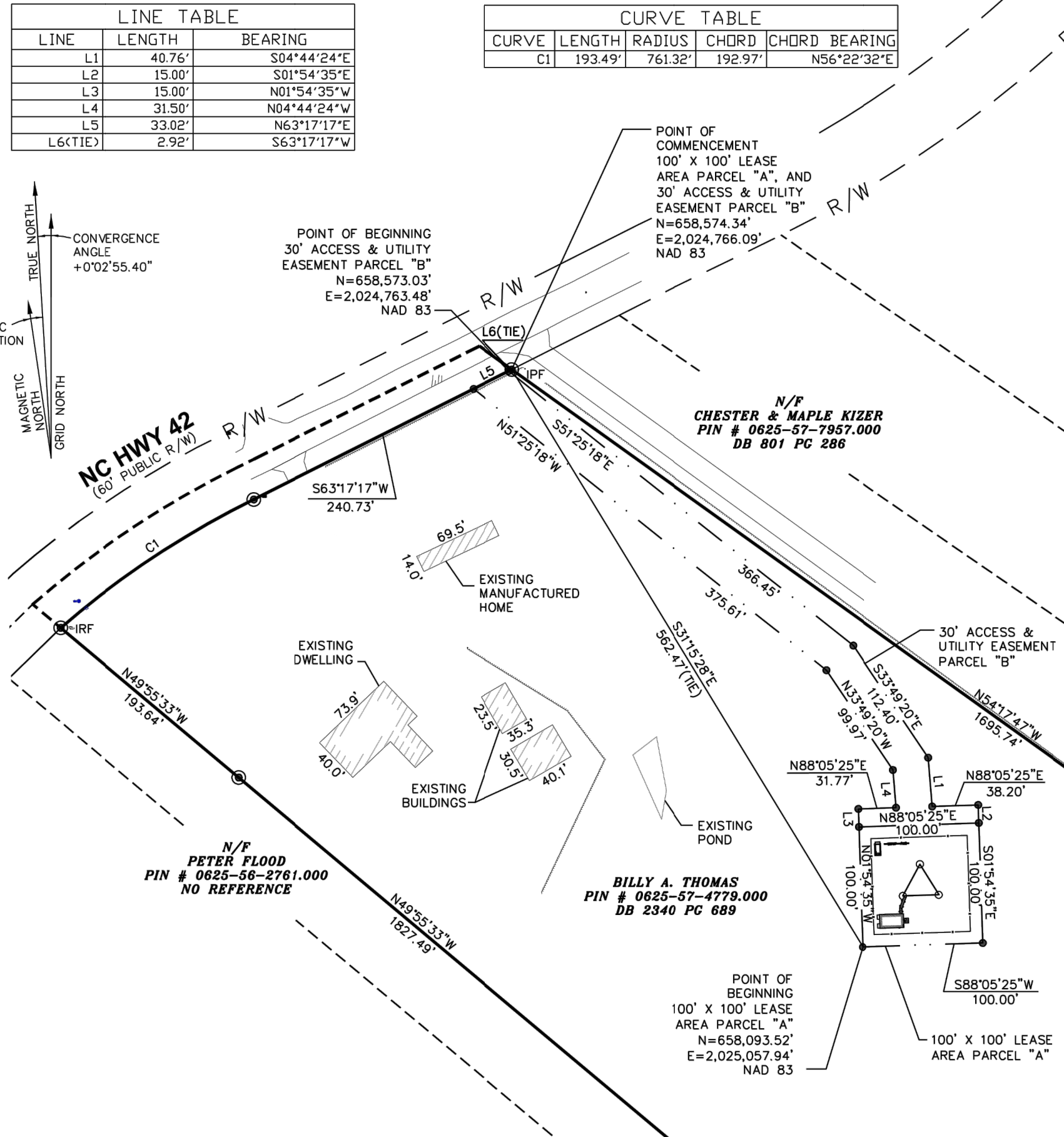
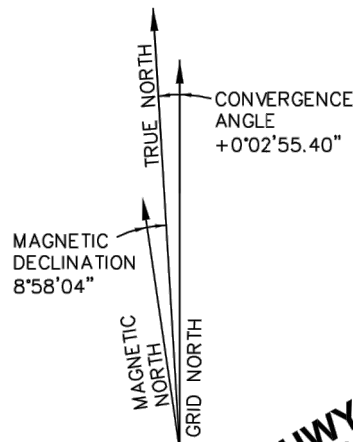
ALL THAT CERTAIN LEASE AREA PARCEL OF LAND, SITUATE, LYING AND BEING IN HARNETT COUNTY, NORTH CAROLINA, BEING A PORTION OF THE LANDS DESCRIBED IN DEED BOOK 2340 AT PAGE 689 OF THE HARNETT COUNTY REGISTER OF DEEDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT EXISTING IRON ON THE SOUTHERN RIGHT OF WAY OF NC HIGHWAY 42, SAID IRON BEING THE NORTHEAST CORNER OF THE PARCEL DESCRIBED IN DEED BOOK 2340 AT PAGE 689, SAID IRON HAVING NORTH CAROLINA STATE PLANE COORDINATES OF NORTHING = 658,574.34', AND EASTING = 2,024,766.09'; THENCE FROM THE POINT OF COMMENCEMENT, SOUTH 31°15'28" EAST, A DISTANCE OF 562.47 FT. TO A POINT ON THE NORTHWEST CORNER OF THE DESCRIBED 100' X 100' LEASE AREA, SAID POINT BEING THE TRUE POINT OF BEGINNING, AND HAVING NORTH CAROLINA STATE PLANE COORDINATES OF NORTHING = 658,093.52', AND EASTING = 2,025,057.94'; THENCE FROM THE POINT OF BEGINNING NORTH 88°05'25" EAST, A DISTANCE OF 100.00 FT. TO A POINT; THENCE SOUTH 01°54'35" EAST FOR A DISTANCE OF 100.00 FT. TO A POINT; THENCE SOUTH 88°05'25" WEST FOR A DISTANCE OF 100.00 FT. TO A POINT; THENCE NORTH 01°54'35" WEST FOR A DISTANCE OF 100.00 FT. TO THE POINT OF BEGINNING. SAID LEASE AREA CONTAINING 10,000 SQ. FT. OR 0.23 ACRES MORE OR LESS.

**LEGAL DESCRIPTION OF 30' ACCESS AND UTILITY EASEMENT PARCEL "B"**

ALL THAT CERTAIN EASEMENT PARCEL OF LAND, SITUATE, LYING AND BEING IN HARNETT COUNTY, NORTH CAROLINA, BEING A PORTION OF THE LANDS DESCRIBED IN DEED BOOK 2340 AT PAGE 689 OF THE HARNETT COUNTY REGISTER OF DEEDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT EXISTING IRON ON THE SOUTHERN RIGHT OF WAY OF NC HIGHWAY 42, SAID IRON BEING THE NORTHEAST CORNER OF THE PARCEL DESCRIBED IN DEED BOOK 2340 AT PAGE 689, SAID IRON HAVING NORTH CAROLINA STATE PLANE COORDINATES OF NORTHING = 658,574.34', AND EASTING = 2,024,766.09'; THENCE FROM THE POINT OF COMMENCEMENT, SOUTH 63°17'17" WEST A DISTANCE OF 2.92 FT. TO A POINT ON THE SOUTHERN RIGHT OF WAY OF NC HIGHWAY 42, SAID POINT BEING THE TRUE POINT OF BEGINNING OF A DESCRIBED 30' ACCESS AND UTILITY EASEMENT, AND HAVING NORTH CAROLINA STATE PLANE COORDINATES OF: NORTHING= 658,573.03'; AND EASTING=2,024,763.48'; THENCE FROM THE POINT OF BEGINNING, AND LEAVING SAID RIGHT OF WAY, SOUTH 51°25'18" EAST A DISTANCE OF 366.45 FT. TO A POINT; THENCE SOUTH 33°49'20" EAST A DISTANCE OF 112.40 FT. TO A POINT; THENCE SOUTH 04°44'24" EAST A DISTANCE OF 40.76 FT. TO A POINT; THENCE NORTH 88°05'25" EAST FOR A DISTANCE OF 38.20 FT. TO A POINT; THENCE SOUTH 01°54'35" EAST A DISTANCE OF 15.00 FT. TO A POINT ON THE NORTHERN LIMITS OF DESCRIBED 100' X 100' FT. LEASE AREA PARCEL; THENCE WITH SAID NORTHERN LIMITS, SOUTH 88°05'25" WEST A DISTANCE OF 100.00 FT. TO A POINT ON SAID SOUTHERN LIMITS; THENCE LEAVING SAID SOUTHERN LIMITS, NORTH 01°54'35" WEST A DISTANCE OF 15.00 FT. TO A POINT; THENCE NORTH 88°05'25" EAST A DISTANCE OF 31.77 FT. TO A POINT; THENCE NORTH 04°44'24" WEST A DISTANCE OF 31.50 FT. TO A POINT; THENCE NORTH 33°49'20" WEST A DISTANCE OF 99.97 FT. TO A POINT; THENCE NORTH 51°25'18" WEST FOR A DISTANCE OF 375.61 TO A POINT ON THE SOUTHERN RIGHT OF WAY OF NC HIGHWAY 42; THENCE WITH SAID RIGHT OF WAY, NORTH 63°17'17" EAST A DISTANCE OF 33.02 FT. TO THE POINT OF BEGINNING. SAID EASEMENT AREA CONTAINING 16,897 SQ. FT. OR 0.39 ACRES MORE OR LESS.

LINE TABLE		
LINE	LENGTH	BEARING
L1	40.76'	S04°44'24"E
L2	15.00'	S01°54'35"E
L3	15.00'	N01°54'35"W
L4	31.50'	N04°44'24"W
L5	33.02'	N63°17'17"E
L6(TIE)	2.92'	S63°17'17"W

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	CHORD BEARING
C1	193.49'	761.32'	192.97'	N56°22'32"E



PREPARED FOR:



PROJECT INFORMATION:

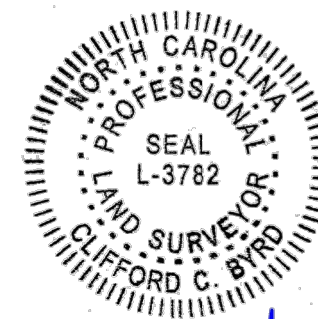
**AT&T SITE # 368-540**  
**ATC SITE # 280848**  
**SHOEHORN**  
 9316 NC HWY 42  
 HOLLY SPRINGS, NC 27540  
 (HARNETT COUNTY)

PREPARED BY:

**TOWER ENGINEERING PROFESSIONALS**  
 3703 JUNCTION BOULEVARD  
 RALEIGH, NC 27603-5263  
 (919) 661-6351  
 NC LICENSE NO. C-1794

SURVEYOR CERTIFICATE

I, CLIFFORD BYRD, CERTIFY THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY BY ME OR UNDER MY DIRECT SUPERVISION, (DEED DESCRIPTION RECORDED IN BOOK AND PAGE AS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS BROKEN LINES, DRAWN FROM INFORMATION FOUND IN BOOK AND PAGE AS REFERENCED HEREON; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S.47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL, THIS 28 DAY OF AUGUST, 2013.



*Clifford C. Byrd*

NORTH CAROLINA PLS # L-3782  
**CLIFFORD C. BYRD**

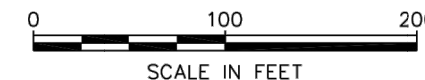
SHEET TITLE:

**LEGAL DESCRIPTIONS**

DATE: 08/28/2013 REVISION: 0  
 SHEET #: 2 OF 2 TEP #: 47302

**LEGAL DESCRIPTIONS**

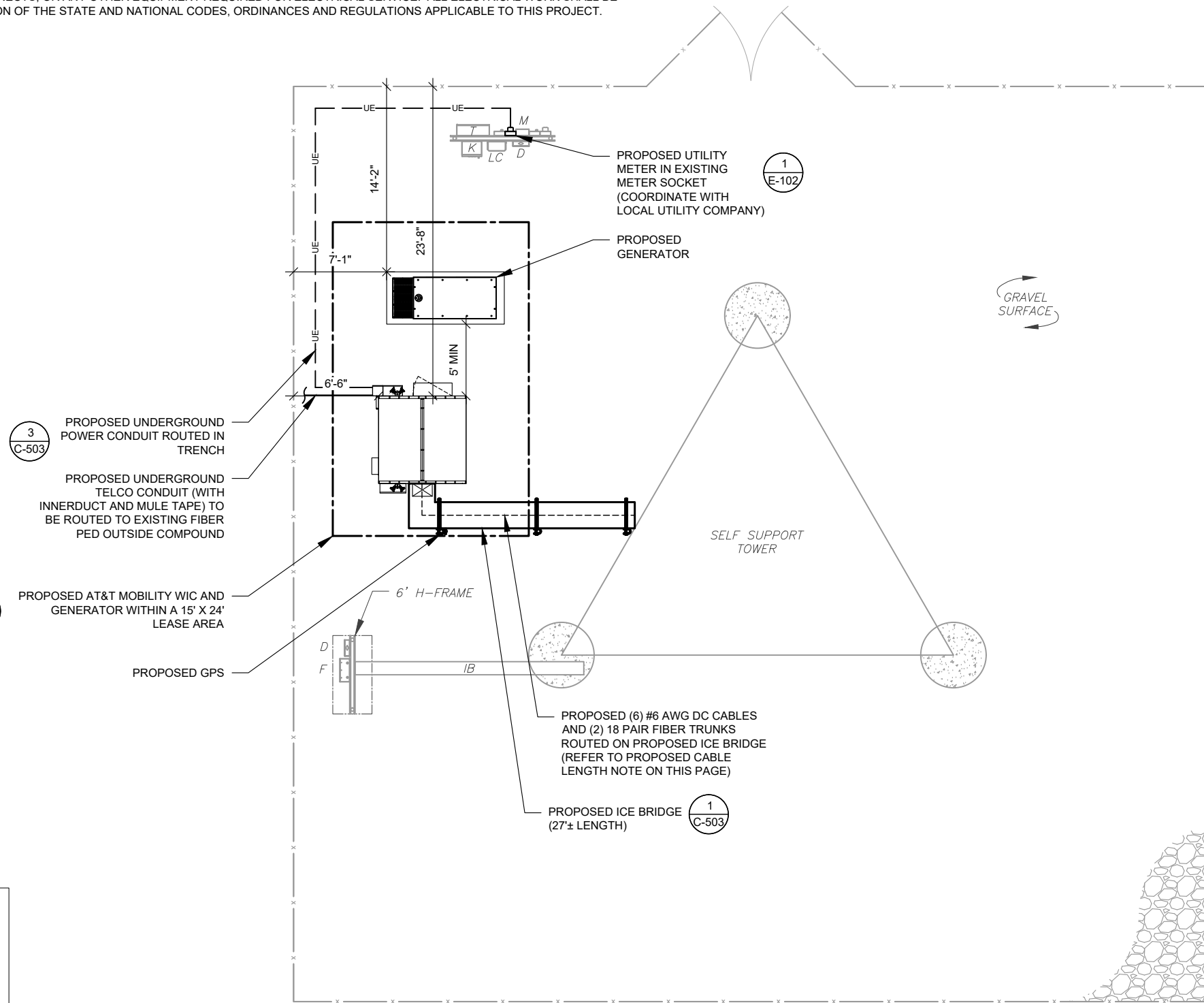
SCALE: 1" = 100'



**SITE PLAN NOTES:**

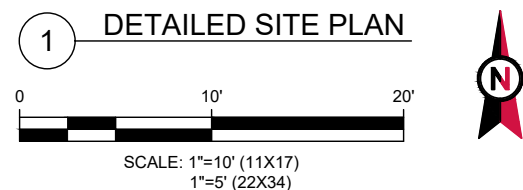
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T MOBILITY 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.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
x	CHAINLINK FENCE



**PROPOSED CABLE LENGTH:**

1. ESTIMATED LENGTH OF PROPOSED CABLE IS 360'. 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.
2. 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).



**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICE, PLLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: P-1177

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
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:  
**280848**  
 ATC SITE NAME:  
**SHOEHORN NC**  
 AT&T MOBILITY SITE NAME:  
**368-540**  
 SITE ADDRESS:  
 9316 NC 42  
 HOLLY SPRINGS, NC 27540



DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

<b>DETAILED SITE PLAN</b>	
SHEET NUMBER: <b>C-101</b>	REVISION: <b>0</b>

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

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**280848**

ATC SITE NAME:

**SHOEHORN NC**

AT&T MOBILITY SITE NAME:

**368-540**

SITE ADDRESS:

9316 NC 42  
 HOLLY SPRINGS, NC 27540

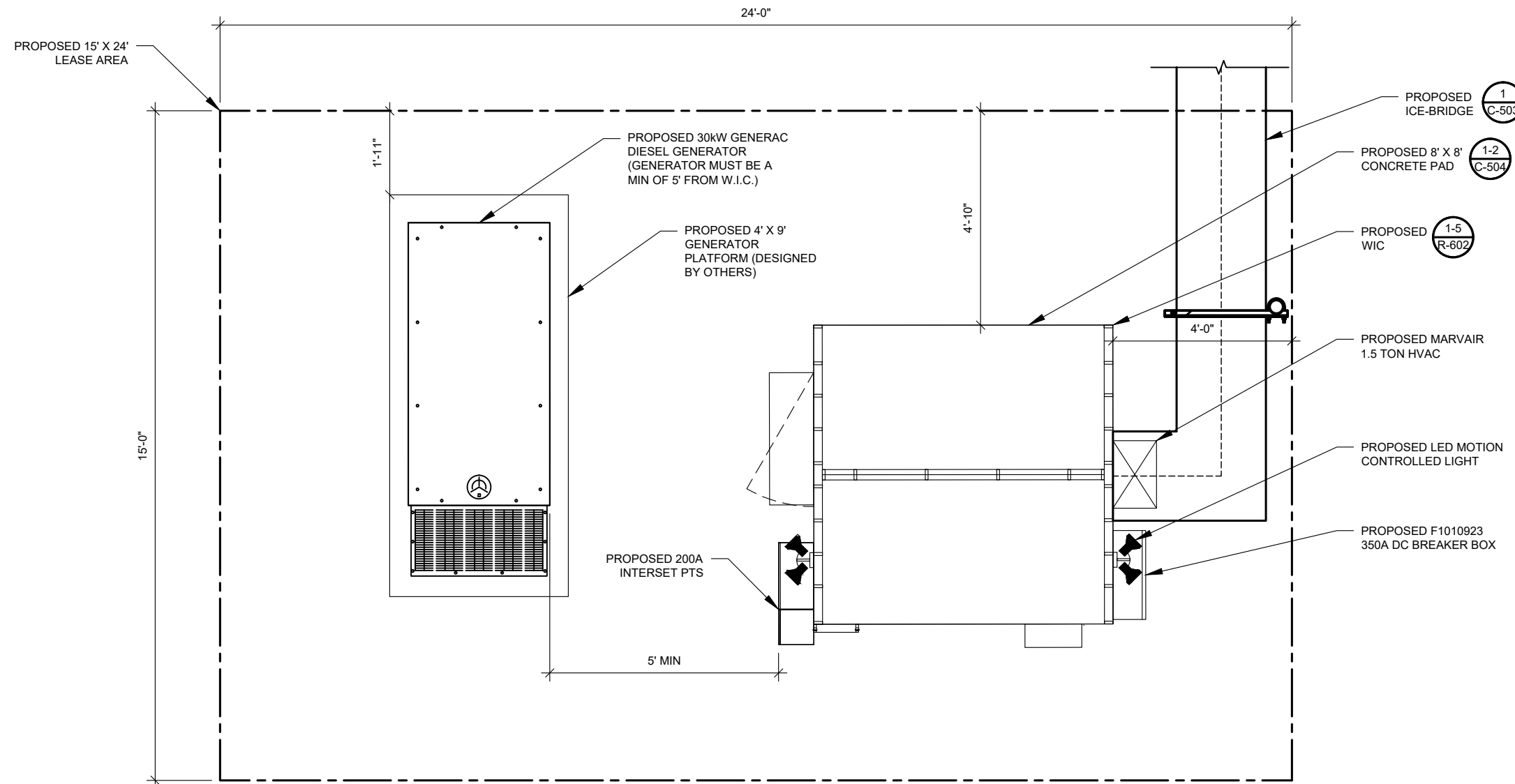
SEAL:



DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

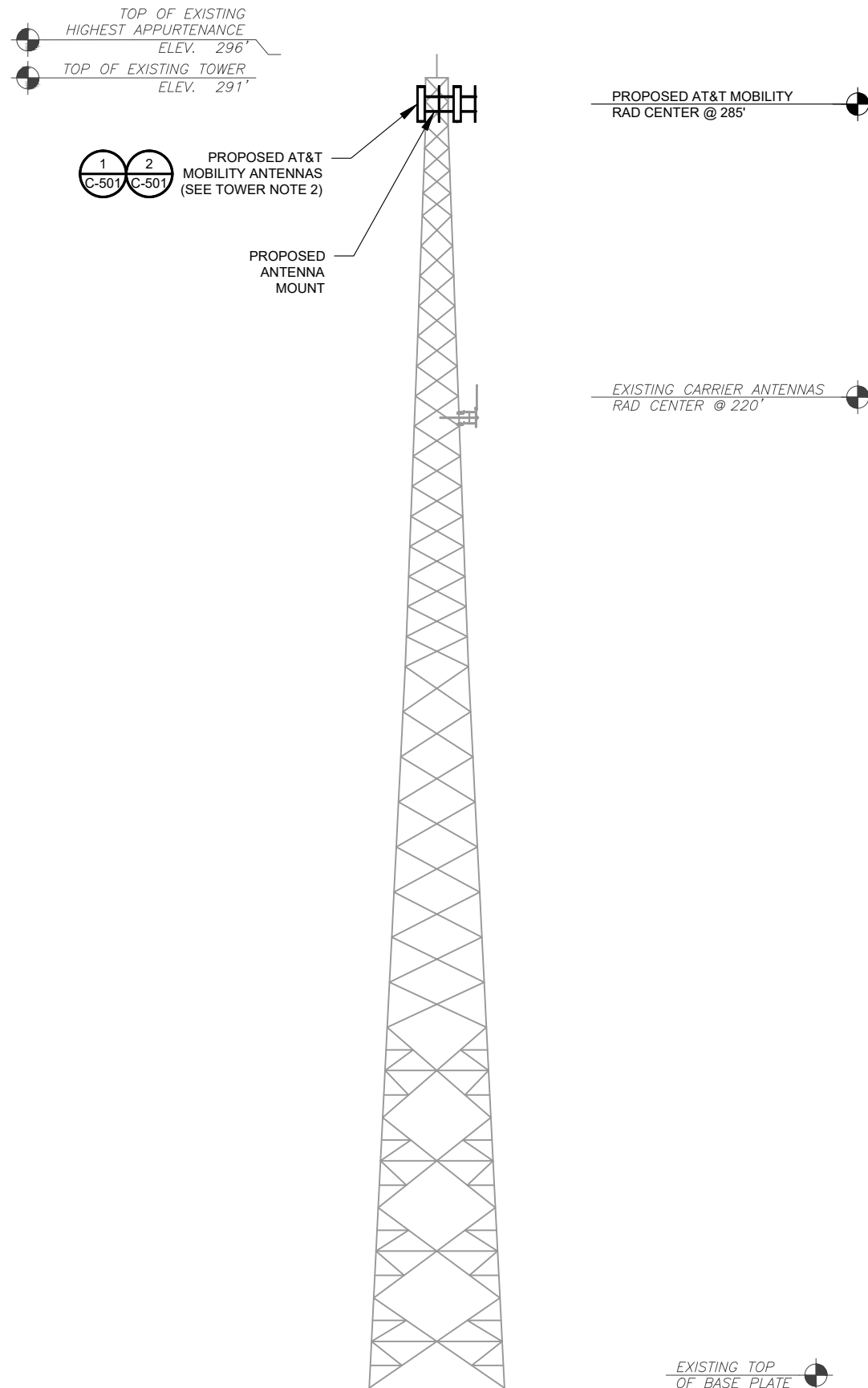
**DETAILED EQUIPMENT LAYOUT**

SHEET NUMBER: **C-102**      REVISION: **0**



**1** DETAILED EQUIPMENT LAYOUT  
 SCALE: NOT TO SCALE

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PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED 09/30/20, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICE, PLLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: P-1177

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:  
**280848**  
 ATC SITE NAME:  
**SHOEHORN NC**  
 AT&T MOBILITY SITE NAME:  
**368-540**  
 SITE ADDRESS:  
 9316 NC 42  
 HOLLY SPRINGS, NC 27540



DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

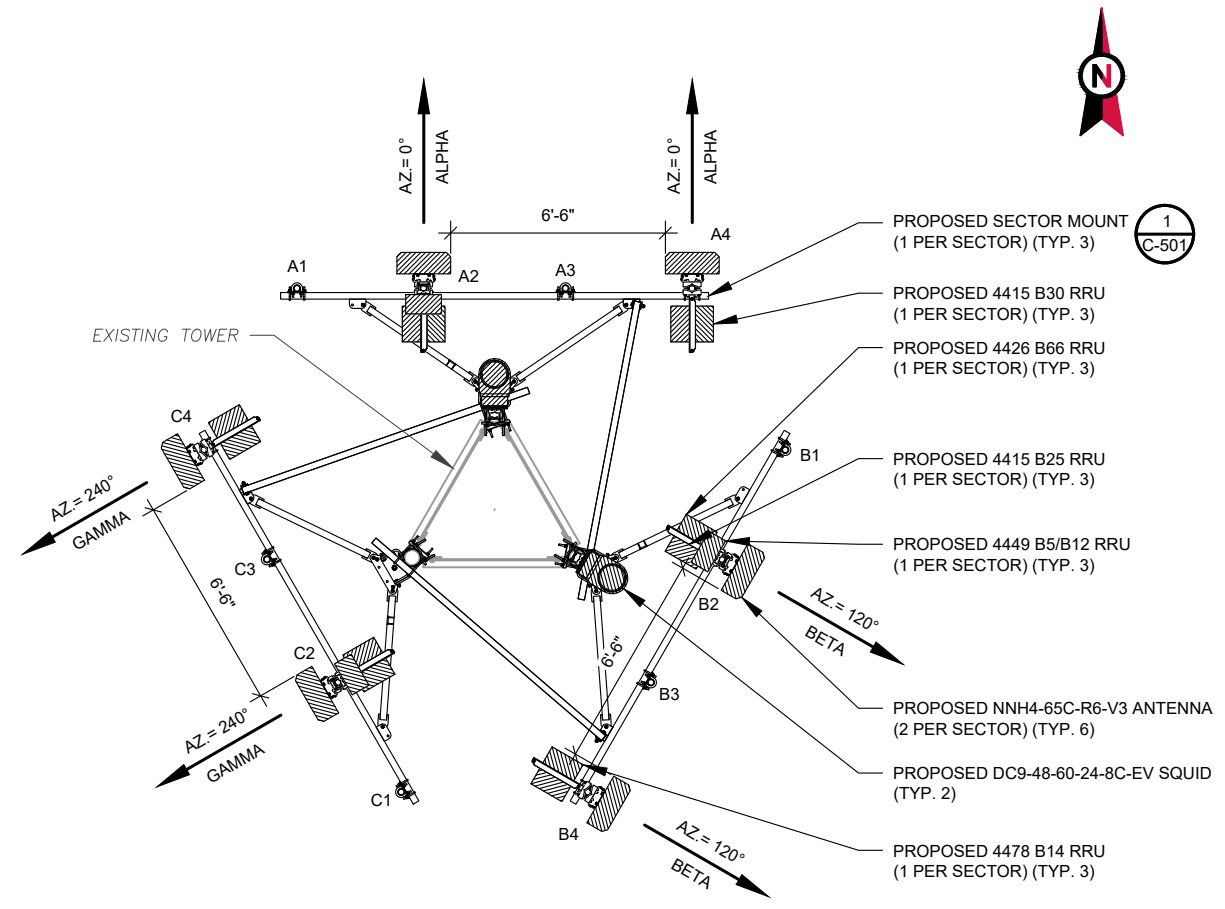
**DETAILED SITE PLAN & TOWER ELEVATION**  
 SHEET NUMBER: **C-201**      REVISION: **0**

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION 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.
  - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
  - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

**1 TOWER ELEVATION**  
 SCALE: N.T.S.

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PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED 09/30/20, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



**1 FINAL ANTENNA PLAN**  
SCALE: N.T.S.

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	285'	0°	A1	-	-	-	-	-	-
			A2	NNH4-65C-R6-V3	700/1900/AWS LTE	-	ADD	4449 B5/B12 4415 B25 4426 B66	ADD
			A3	-	-	-	-	-	-
			A4	NNH4-65C-R6-V3	700/WCS LTE	-	ADD	4478 B14 4415 B30	ADD
BETA	285'	120°	B1	-	-	-	-	-	-
			B2	NNH4-65C-R6-V3	700/1900/AWS LTE	-	ADD	4449 B5/B12 4415 B25 4426 B66	ADD
			B3	-	-	-	-	-	-
			B4	NNH4-65C-R6-V3	700/WCS LTE	-	ADD	4478 B14 4415 B30	ADD
GAMMA	285'	240°	C1	-	-	-	-	-	-
			C2	NNH4-65C-R6-V3	700/1900/AWS LTE	-	ADD	4449 B5/B12 4415 B25 4426 B66	ADD
			C3	-	-	-	-	-	-
			C4	NNH4-65C-R6-V3	700/WCS LTE	-	ADD	4478 B14 4415 B30	ADD

1. CONFIRM WITH AT&T MOBILITY 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.

CABLE LENGTHS FOR JUMPERS  
FIBER DISTRIBUTION/OVP TO RRU: 15'  
RRU TO COMBINER: 10'  
COMBINER TO ANTENNA: 10'

**2 ANTENNA SCHEDULE**

PROPOSED FIBER DISTRIBUTION/OVP BOX		PROPOSED CABLING SUMMARY		
MODEL NUMBER	STATUS	DC	HYBRID	STATUS
(2) DC9-48-60-24-8C-EV	ADD	(6) #6 AWG	18 PAIR	ADD
-	-	-	-	-

**AMERICAN TOWER®**  
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COA: P-1177

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

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SITE ADDRESS:  
9316 NC 42  
HOLLY SPRINGS, NC 27540

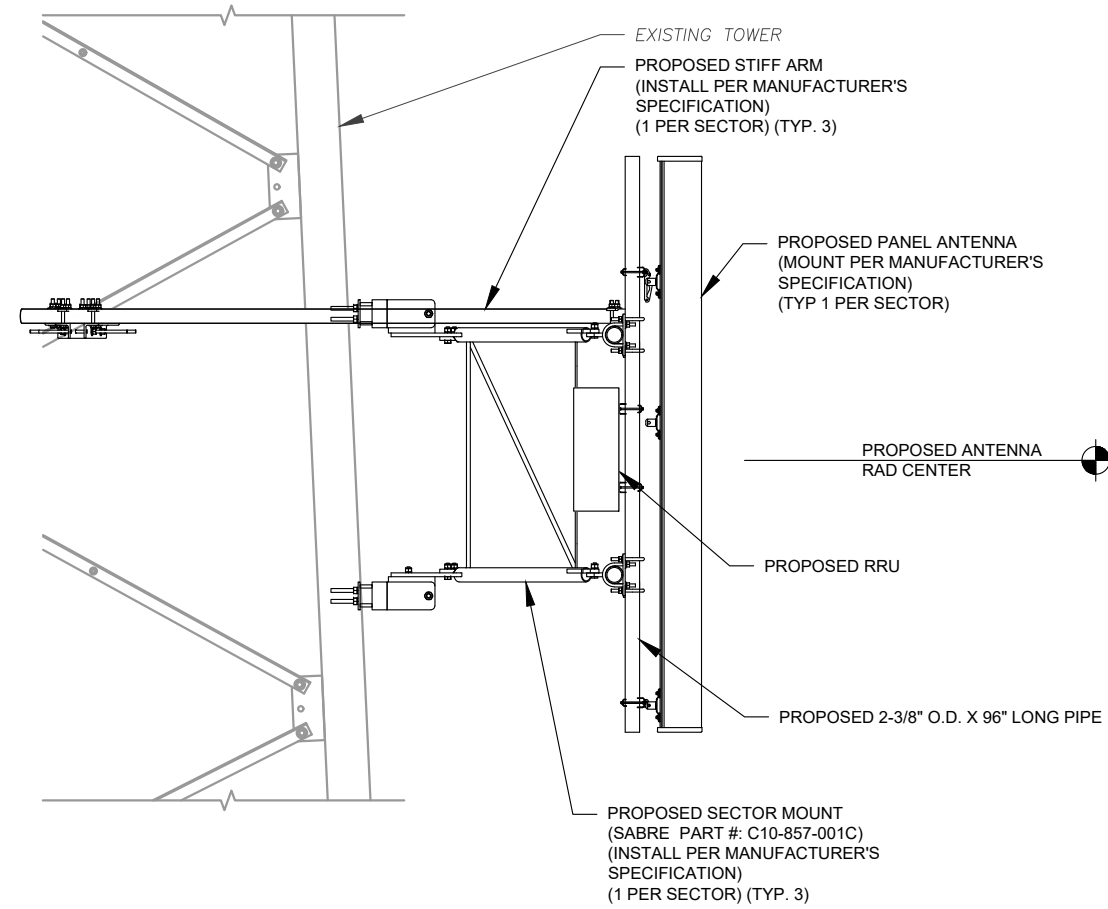


DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

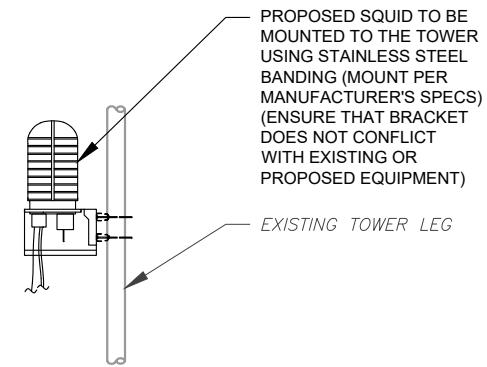
**ANTENNA INFORMATION & SCHEDULE**

SHEET NUMBER: <b>C-401</b>	REVISION: <b>0</b>
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1 PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)  
SCALE: NOT TO SCALE



2 PROPOSED SQUID MOUNTING  
SCALE: N.T.S.



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 COA: P-1177

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:  
**280848**  
 ATC SITE NAME:  
**SHOEHORN NC**  
 AT&T MOBILITY SITE NAME:  
**368-540**  
 SITE ADDRESS:  
 9316 NC 42  
 HOLLY SPRINGS, NC 27540

SEAL:



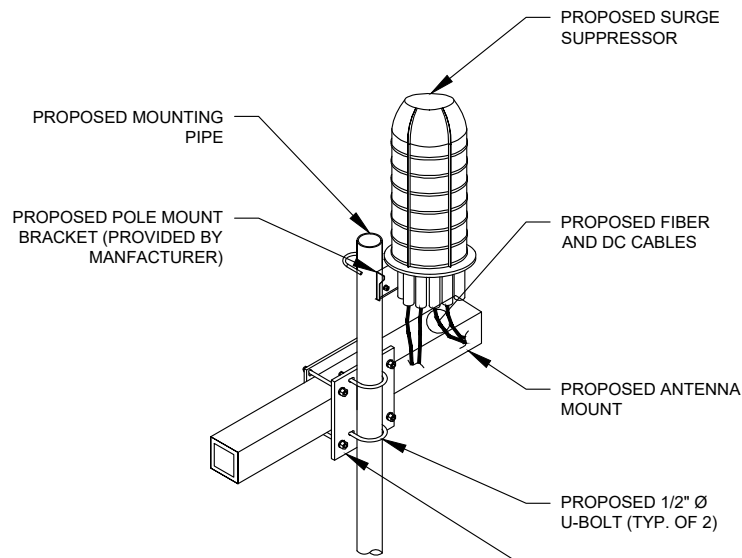
DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

**CONSTRUCTION  
 DETAILS**

SHEET NUMBER:  
**C-501**

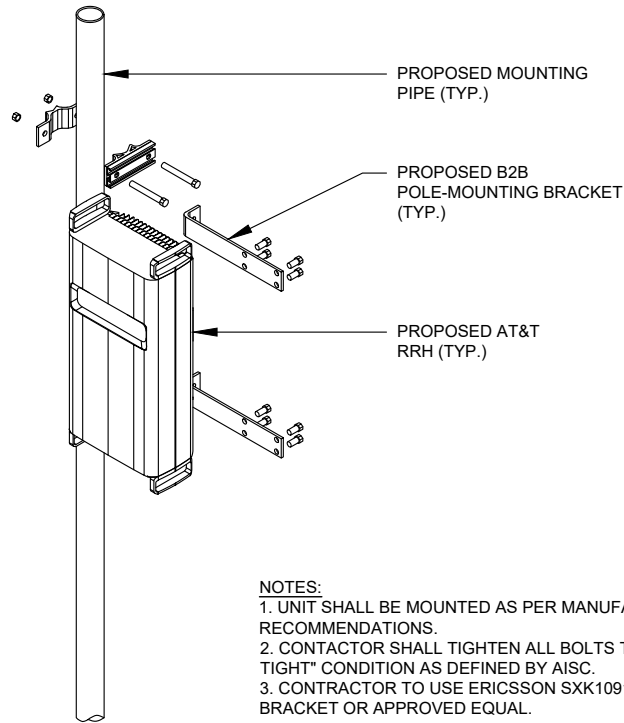
REVISION:  
**0**

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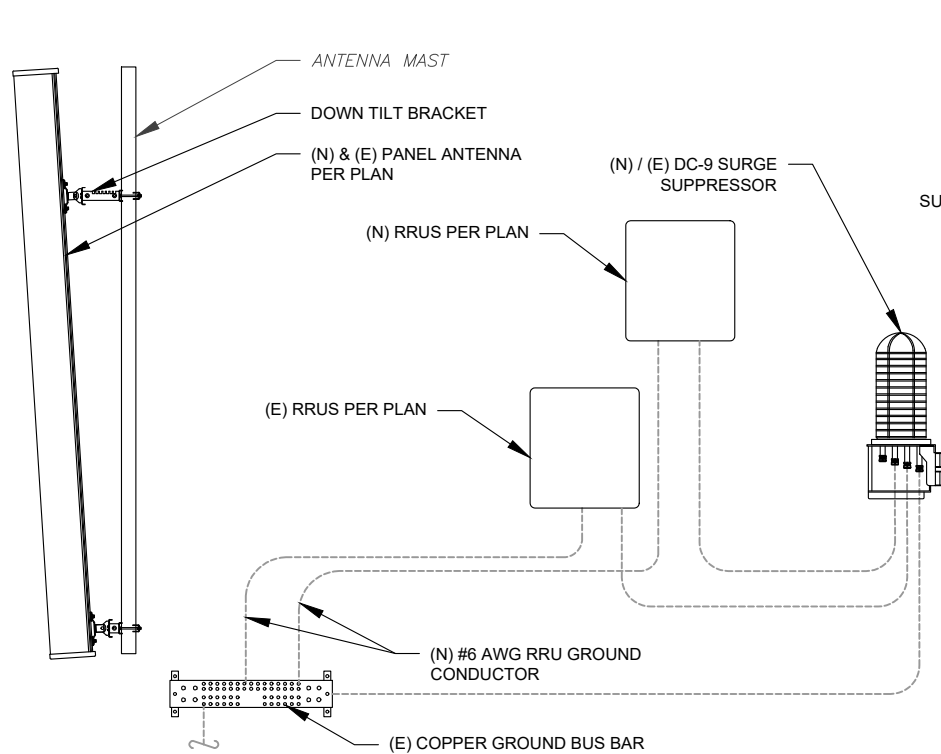
**NOTES:**  
 1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.  
 2. CONTACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.  
 3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S.

**1 SURGE MOUNTING DETAIL**  
 SCALE: N.T.S.

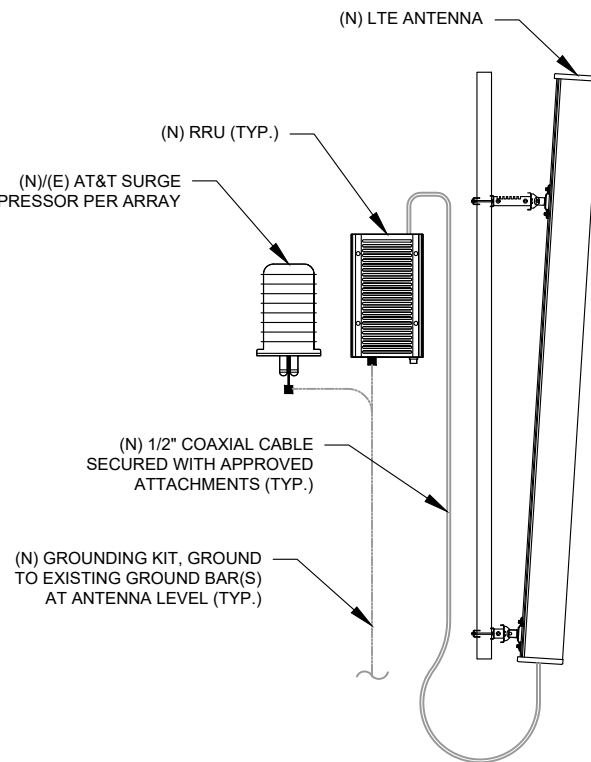


**NOTES:**  
 1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.  
 2. CONTACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.  
 3. CONTRACTOR TO USE ERICSSON SXK1091946/1 B2B BRACKET OR APPROVED EQUAL.

**2 RRU MOUNTING DETAIL**  
 SCALE: N.T.S.

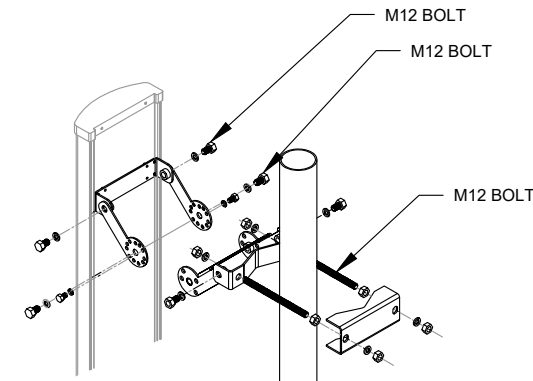


**3 ANTENNA/RRU GROUNDING**  
 SCALE: N.T.S.



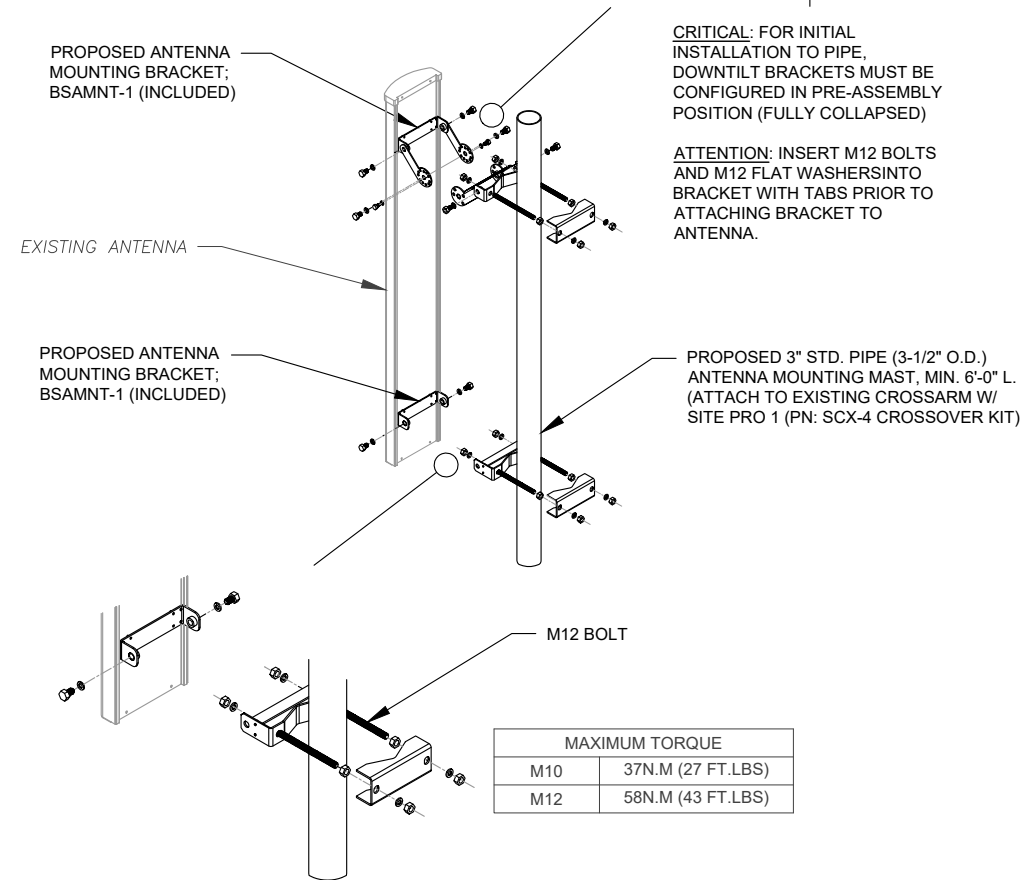
**4 ANTENNA/RRU GROUNDING**  
 SCALE: N.T.S.

MAXIMUM TORQUE	
M8	15N.M (27 FT.LBS)
M10	37N.M (27 FT.LBS)
M12	58N.M (43 FT.LBS)



**CRITICAL:** FOR INITIAL INSTALLATION TO PIPE, DOWNTILT BRACKETS MUST BE CONFIGURED IN PRE-ASSEMBLY POSITION (FULLY COLLAPSED)

**ATTENTION:** INSERT M12 BOLTS AND M12 FLAT WASHERS INTO BRACKET WITH TABS PRIOR TO ATTACHING BRACKET TO ANTENNA.



MAXIMUM TORQUE	
M10	37N.M (27 FT.LBS)
M12	58N.M (43 FT.LBS)

**5 ANTENNA MOUNTING DETAIL**  
 SCALE: N.T.S.



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 AT&T MOBILITY SITE NAME:  
**368-540**  
 SITE ADDRESS:  
 9316 NC 42  
 HOLLY SPRINGS, NC 27540



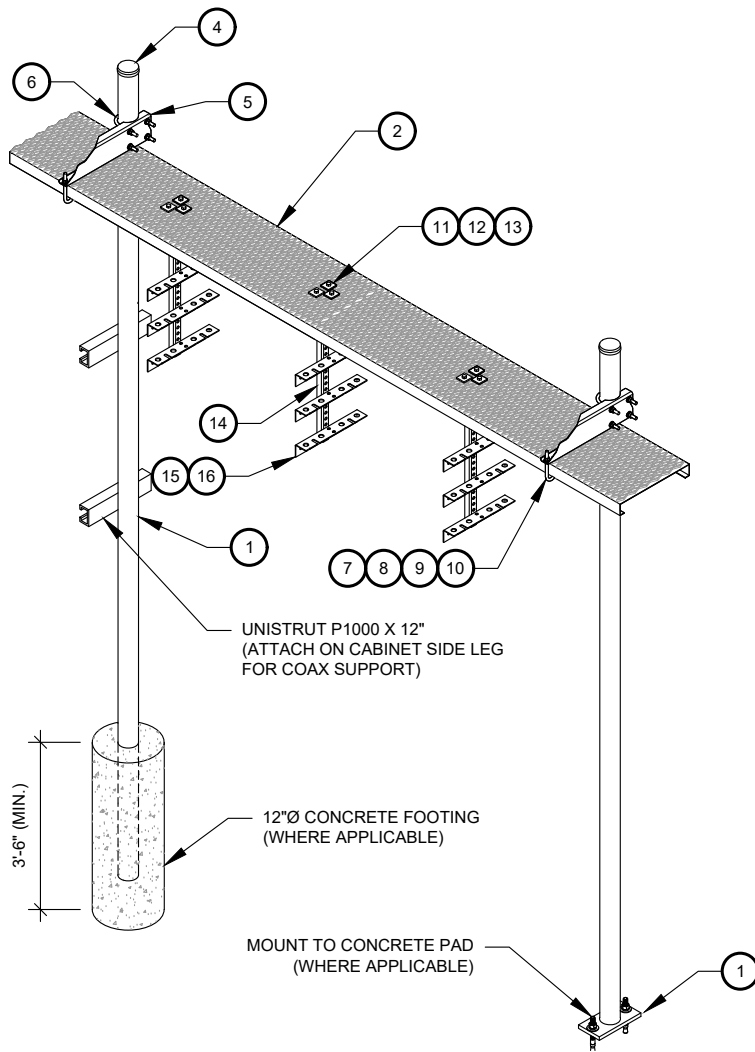
DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

**CONSTRUCTION  
 DETAILS**

SHEET NUMBER:  
**C-502**  
 REVISION:  
**0**

**CONSTRUCTION NOTE:**

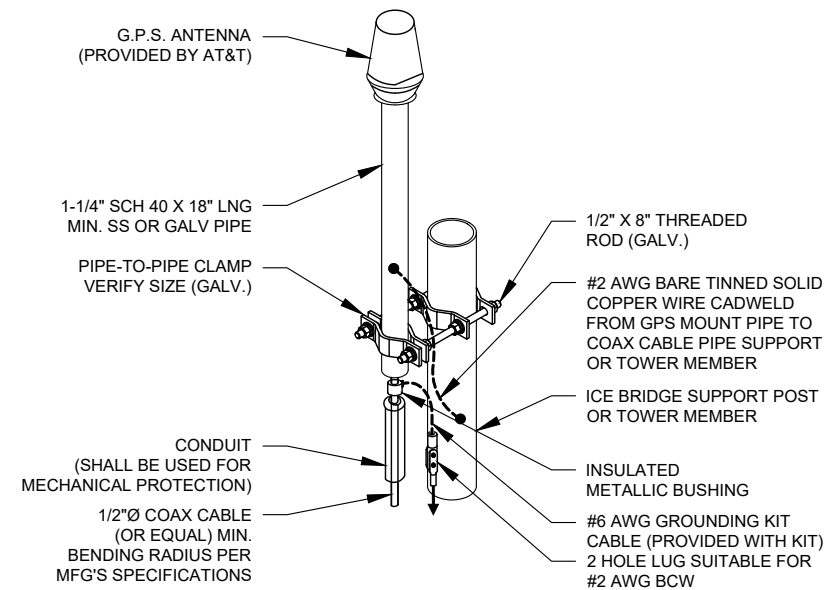
1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.



WB-K210-B WAVEGUIDE BRIDGE KIT - BILL OF MATERIALS (INCLUDED WITH KIT UNLESS NOTED OTHERWISE)					
ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	MF126.01 MF-130	10'-4" COLUMN & BASE SHOE* 13'-4" PIPE COLUMN	9	GWL-04	1/2" GALV LOCK WASHER
2	WB-CY210	SAFETY GRATING 24" X 10'	10	GN-04	1/2" GALV HEX NUT
3	WBK110BHK	HARDWARE KIT (ITEMS 4-16)	11	GB-03205	3/8" X 2" GALV BOLT KIT
4	PC-034	PIPE CAP 3-1/2"	12	MT-387	SQUARE WASHER, 1-1/2" X 1-1/2" W/ 7/16" HOLE
5	WBLB243.08	24" WAVEGUIDE BRIDGE SUPPORT BRACKET	13	GWF-03	3/8" GALV FLAT WASHER
6	GUB-4356	1/2" X 3-5/8" X 6" GALV U-BOLT	14	WBT243.01	VERTICAL TRAPEZE SECTION
7	WB-JB-6	1/2" J-BOLT	15	GB-03105	3/8" X 1" GALV BOLT KIT
8	GWF-04	1/2" GALV FLAT WASHER	16	WBT243.02	HORIZONTAL TRAPEZE SECTION

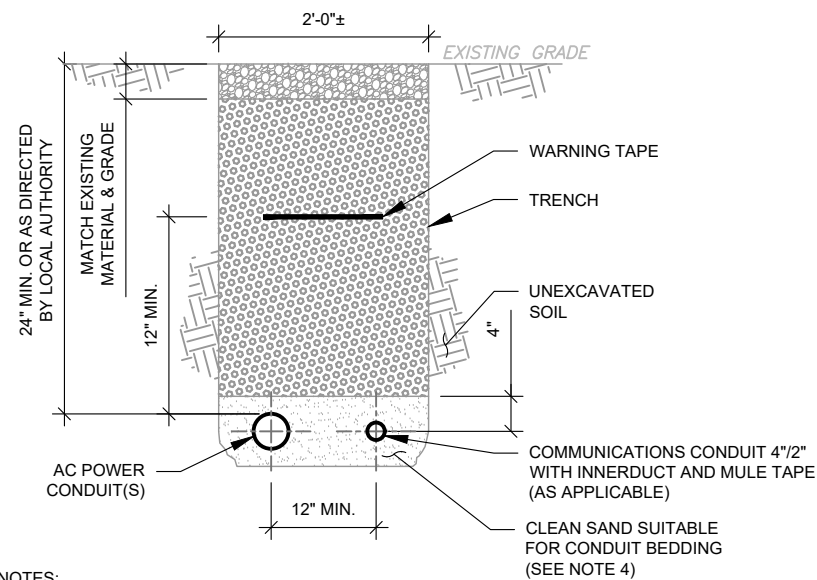
CONTRACTOR SHALL USE PARTS MANUFACTURED BY COMMSCOPE OR APPROVED EQUIVALENT.  
\*BASE SHOE NOT INCLUDED IN WB-K210-B KIT, ORDER COLUMN SEPARATELY OR KIT WB-K210-S.

**1 WAVEGUIDE BRIDGE KIT**  
SCALE: NOT TO SCALE



- NOTE:**
1. GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
  2. CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.

**2 GPS ANTENNA ATTACHMENT DETAIL**  
SCALE: NOT TO SCALE



**TRENCH NOTES:**

1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL.
2. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
4. USE COMMUNICATIONS ONLY TRENCH FOR COMMUNICATIONS CONDUIT UNLESS TRAVELING UNDER PATH OF VEHICLE TRAVEL, THEN CONDUIT MUST BE 24" MIN. BELOW GRADE.
5. CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

**3 POWER/TELCO CONDUIT TRENCH DETAILS**  
SCALE: N.T.S.

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ATC SITE NUMBER:  
**280848**  
ATC SITE NAME:  
**SHOEHORN NC**  
AT&T MOBILITY SITE NAME:  
**368-540**  
SITE ADDRESS:  
9316 NC 42  
HOLLY SPRINGS, NC 27540

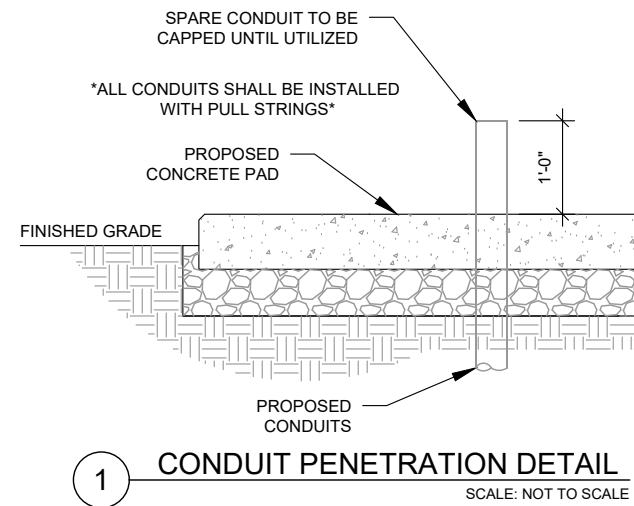


DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

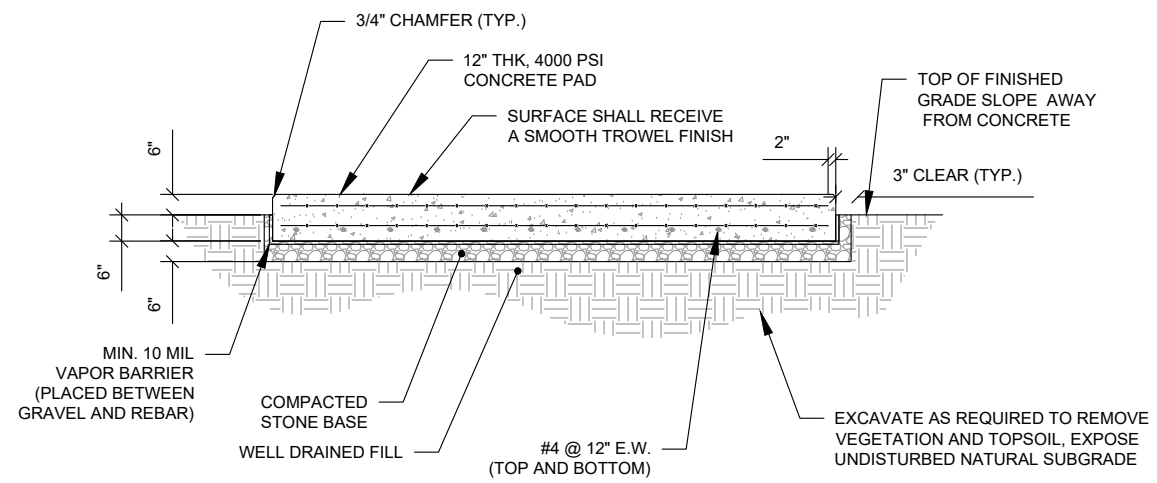
**CONSTRUCTION  
DETAILS**

SHEET NUMBER:	REVISION:
<b>C-503</b>	<b>0</b>





1 CONDUIT PENETRATION DETAIL  
SCALE: NOT TO SCALE



2 CONCRETE PAD DETAIL  
SCALE: NOT TO SCALE



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ATC SITE NUMBER:

**280848**

ATC SITE NAME:

**SHOEHORN NC**

AT&T MOBILITY SITE NAME:

**368-540**

SITE ADDRESS:

9316 NC 42  
 HOLLY SPRINGS, NC 27540

SEAL:



DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

**CONSTRUCTION  
 DETAILS**

SHEET NUMBER: **C-504** REVISION: **0**



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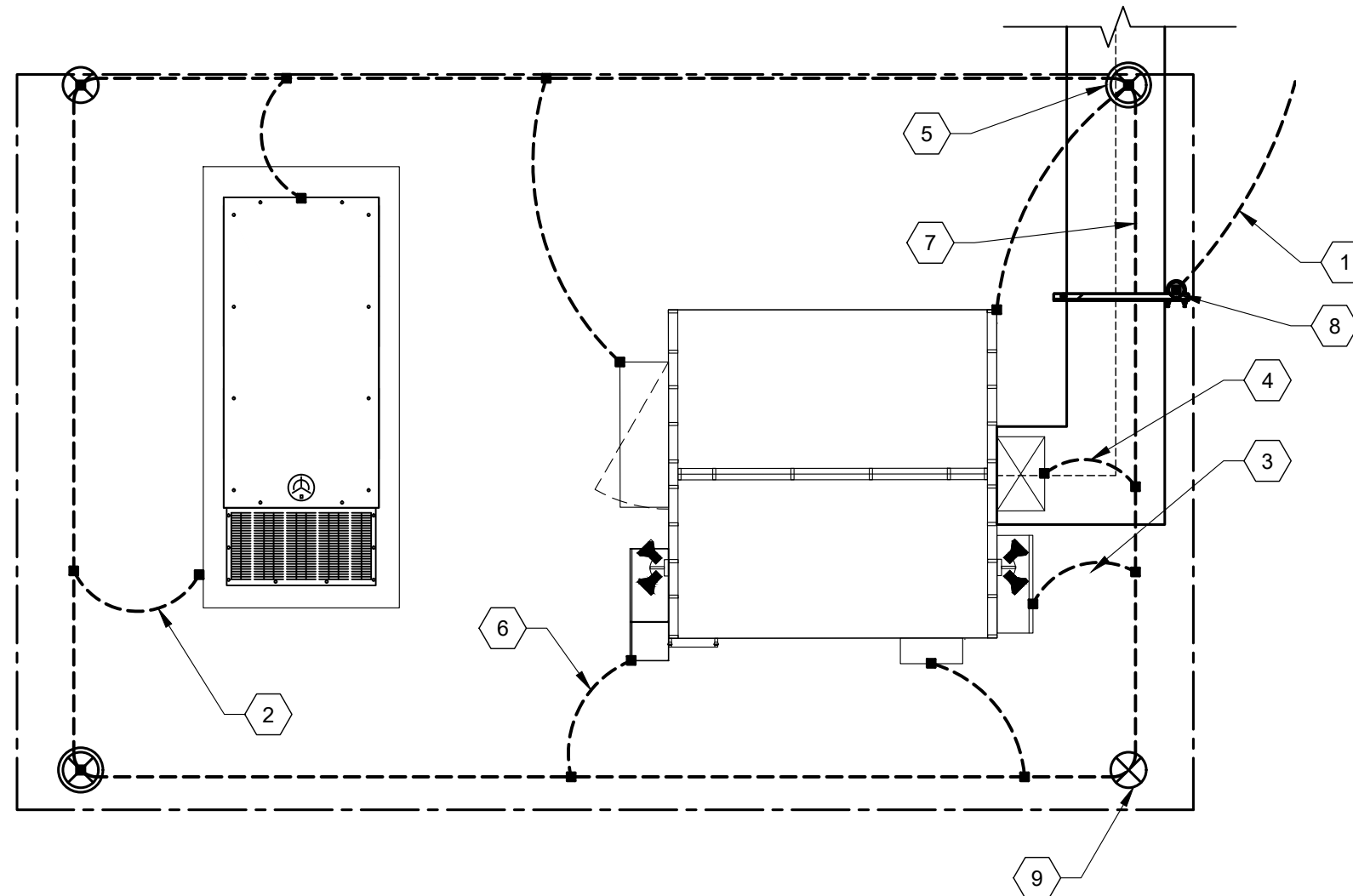
SEAL:



DATE DRAWN:	11/24/20
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CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

**GROUNDING PLAN**

SHEET NUMBER: **E-101**      REVISION: **0**



**1** DETAILED GROUNDING LAYOUT  
 SCALE: NOT TO SCALE

**GROUNDING KEYED NOTES:**

- 1 BOND TO TOWER GROUND RING
- 2 #2 AWG GENERATOR AND TANK FRAMES BOND BURIED 30" BFG
- 3 #2 AWG DISCONNECT BOND BURIED 30" BFG (TYP.)
- 4 HVAC GROUNDING, MECHANICAL CONNECTIONS AT HVAC UNITS ABOVE GRADE AS ALLOWED BY CODE
- 5 5/8" X 10' COPPER GROUND ROD W/ INSPECTION WELL
- 6 #2 AWG ATS BOND BURIED 30" BFG (TYP.)
- 7 2" AWG GROUND RING BURIED 30" BFG
- 8 #2 AWG ICE BRIDGE BOND BURIED 30" BFG (TYP.)
- 9 5/8" X 10' COPPER GROUND ROD

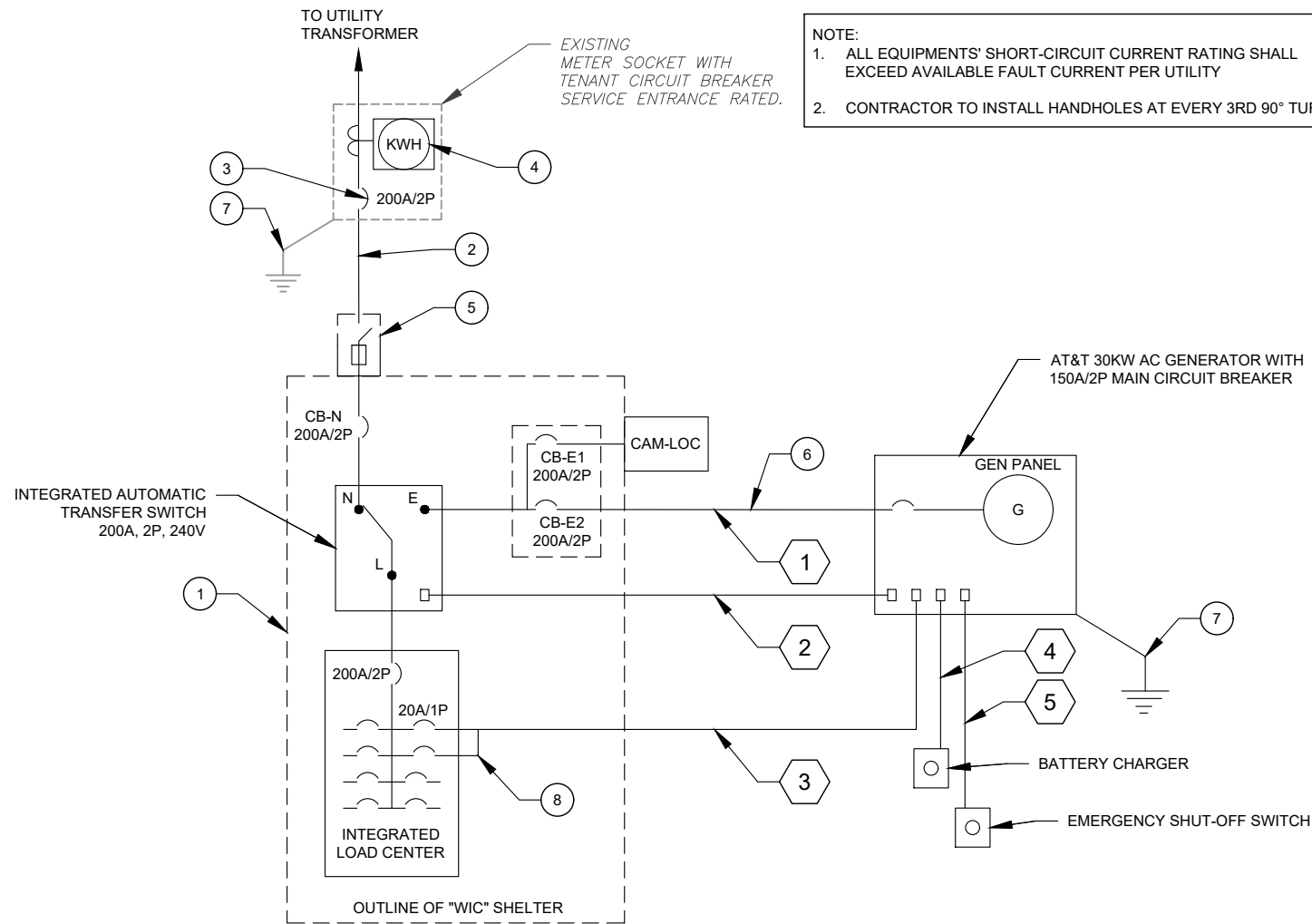
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**ELECTRICAL NOTES:**

- 1 POWER TRANSFER LOAD CENTER (PTLC) INCLUDES A CAM-LOC GENERATOR CONNECTION PANEL, AND ATS, A MECHANICALLY INTERLOCKED TRANSFER SWITCH, A 200A 42 CIRCUIT PANEL AND SURGE SUPPRESSION.
- 2 CONTRACTOR SHALL FURNISH AND INSTALL POWER CONDUCTORS (3#3/0, #6 G IN 2" C) FROM METER CENTER TO SHELTER. METER WILL BE FURNISHED AND INSTALLED BY LOCAL UTILITY COMPANY.
- 3 CONTRACTOR SHALL PROVIDE AND INSTALL CIRCUIT BREAKER IN METER CENTER TO FEED AT&T SHELTER. CIRCUIT BREAKER SHALL BE 200A, 240V, 1PH, 3W TYP AND AIC RATING SHALL MATCH EXISTING.
- 4 CONTRACTOR SHALL PROVIDE AND INSTALL NAMEPLATE ON METER TO INDICATE "AT&T". NAMEPLATES SHALL BE PHENOLIC, WHITE LETTERS ON BLACK BACKGROUND.
- 5 SHELTER DISCONNECT IS FURNISHED WITH SHELTER. ON SITES WHERE SERVICE IS OBTAINED FROM AN EXISTING SOURCE (METER CENTER), OR SERVICE DISCONNECT IS LOCATED ON EQUIPMENT RACK, SHELTER DISCONNECT MAY BE OMITTED.
- 6 BELOW GRADE PVC CONDUIT SHALL TRANSITION TO RMC PRIOR TO RISING ABOVE GRADE, ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.
- 7 ALL EQUIPMENT SHALL BE GROUNDED PER NEC (MIN #2 SBTC) AND AT&T STANDARDS.
- 8 CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP. (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%)

**CONDUIT NOTES:**

- 1 (3) #1/0, 1#6G - 2" C FOR POWER
- 2 1" Ø CONDUIT FOR START/STOP SIGNAL
- 3 PROPOSED 1" Ø CONDUIT FOR BLOCK HEATER AND GEN AUX POWER
- 4 PROPOSED 1" Ø CONDUIT FOR BATTERY CHARGER.
- 5 PROPOSED 1" Ø CONDUIT FOR EMERGENCY SHUT-OFF SWITCH.



1 **ELECTRICAL ONE-LINE DIAGRAM**  
SCALE: NOT TO SCALE

PANEL DESIGNATION: <b>AT&amp;T</b>		TYPE: LIGHTING & APPLIANCE	SYSTEM: 120/240V, 3W, 42 CKT	LOCATION: AT&T LEASE AREA
MOUNTING: SURFACE		ENCLOSURE:	MAIN BREAKER (MB): 200A	PANEL NOTES: WIC INTEGRATED PANEL
			MAIN BUS RATING: 200A	
			MIN. A.I.C. RATING: 65K	

CONNECTED LOAD (kVA)	BRIEF DESCRIPTION	FEEDER OR BRANCH CIRCUIT				CIRC. NOTES	FEEDER OR BRANCH CIRCUIT			BRIEF DESCRIPTION	CONNECTED LOAD (kVA)	
		BREAKER		POLE NO.	CIRC. NOTES		BREAKER		BRIEF DESCRIPTION		A	B
A	B	AMPS	POLES			NO.	NO.	POLES		AMPS	A	B
2.00	RECTIFIER #1	30	2	1	2	1	20	EXT. GFCI OUTLETS	0.18	2.00		
2.00	RECTIFIER #3	30	2	3	4	2	30	RECTIFIER #2	2.00	2.00		
2.00	RECTIFIER #5	30	2	5	6	2	30	RECTIFIER #4	2.00	2.00		
2.00	RECTIFIER #5	30	2	7	8	2	30	RECTIFIER #6	2.00	2.00		
0.00	SPACE			9	10	2	30		2.00	2.00		
0.00	SPACE			11	12				0.00	0.00		
0.68	SPACE			13	14				0.00	0.00		
0.00	SPACE			15	16				0.00	0.00		
0.00	SPACE			17	18				0.00	0.00		
0.00	SPACE			19	20				0.00	0.00		
0.00	SPACE			21	22				0.00	0.00		
3.50	1.5 TON AC UNIT	20	2	23	24				0.00	0.00		
0.48	FIBER BOX OUTLET	20	1	25	26				0.00	0.00		
0.00	SPACE			27	28	1	20	GFI RECEPT / LIGHT	0.70	0.70		
0.00	SPACE			29	30	1	20	GEN BLOCK HEATER	1.92	1.92		
0.00	SPACE			31	32	1	20	BATTERY CHARGER	1.92	1.92		
0.00	SPACE			33	34			SPACE	0.00	0.00		
0.00	SPACE			35	36			SPACE	0.00	0.00		
0.00	SPACE			39	40			SPACE	0.00	0.00		
0.00	SPACE			41	42			SPACE	0.00	0.00		
10.7									8.1	8.6		
				A	B	TOTAL						
				18.8	18.1	36.9		CONNECTED LOAD (kVA)				
				18.8	18.1	36.9		DEMAND LOAD (kVA)				

DERATING FACTOR (80%)  
DEMANDLOAD SIZING: 195 AMPS

- NOTES:  
 1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.  
 2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50 FT.

2 **PANEL SCHEDULE**

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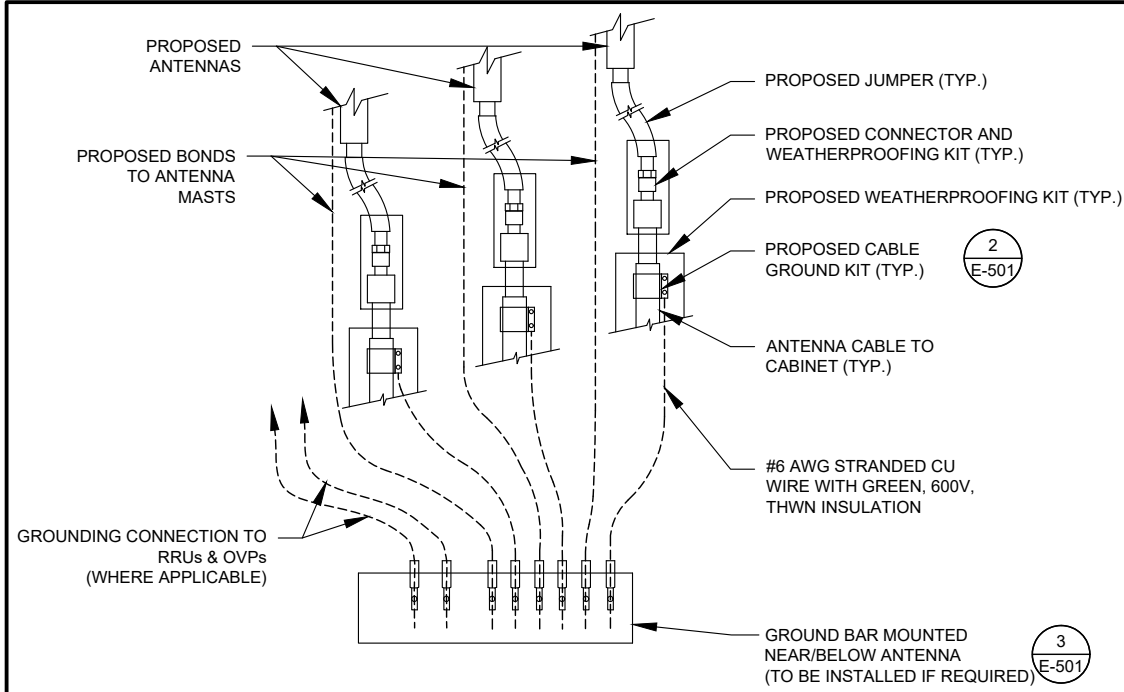


DATE DRAWN: 11/24/20  
 ATC JOB NO: 13247756\_G4  
 CUSTOMER ID: ECL05406  
 CUSTOMER #: 12682237

**ELECTRICAL ONE-LINE & PANEL SCHEDULE**

SHEET NUMBER: **E-102**      REVISION: **0**

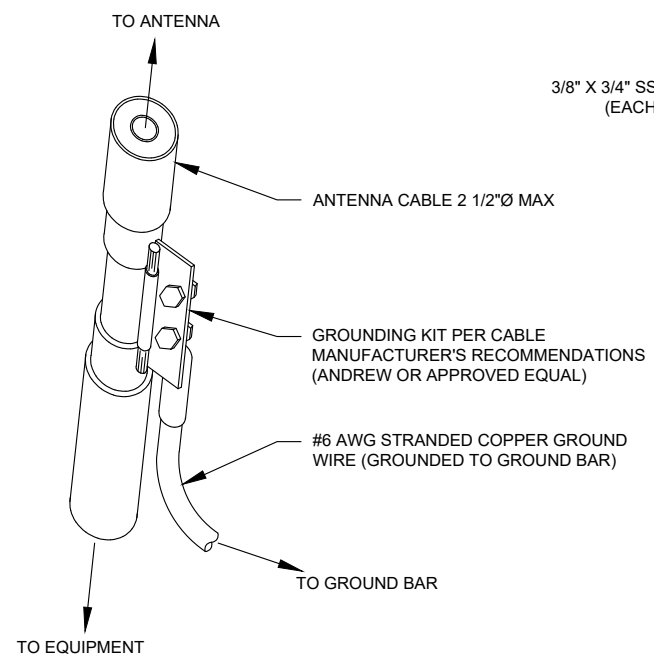
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**NOTES:**

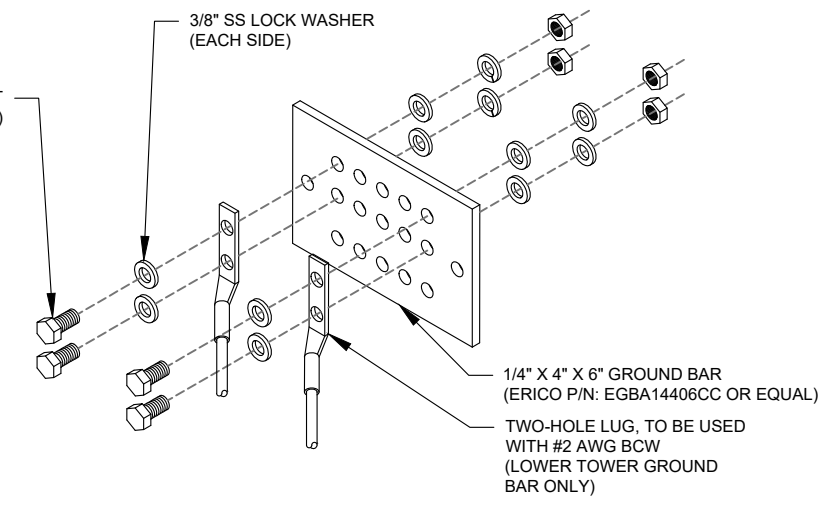
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS,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

**1 TYPICAL ANTENNA GROUNDING DIAGRAM**  
SCALE: NOT TO SCALE



- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

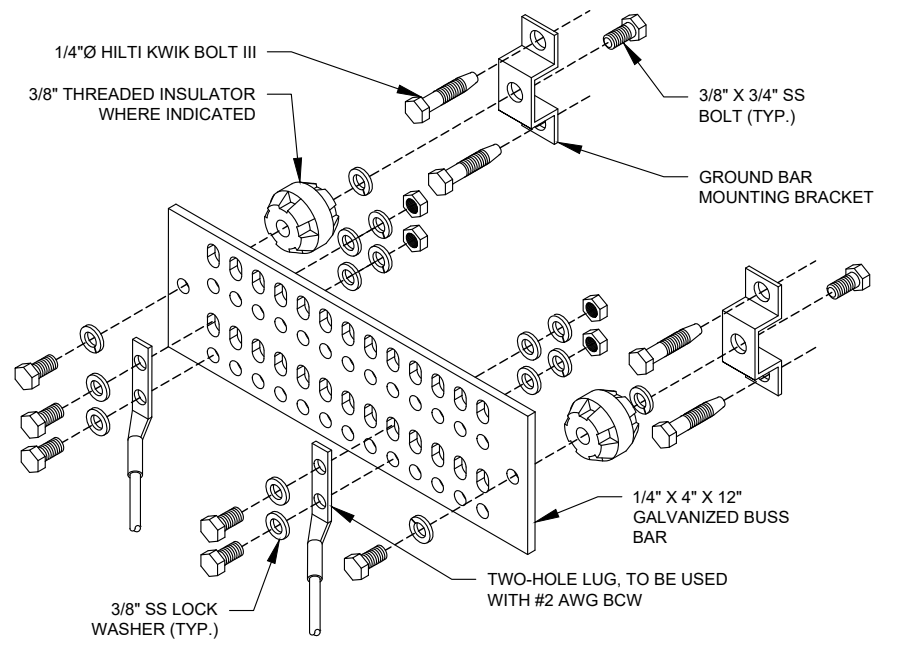
**2 CABLE GROUND KIT CONNECTION DETAIL**  
SCALE: NOT TO SCALE



**GROUND BAR NOTES:**

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

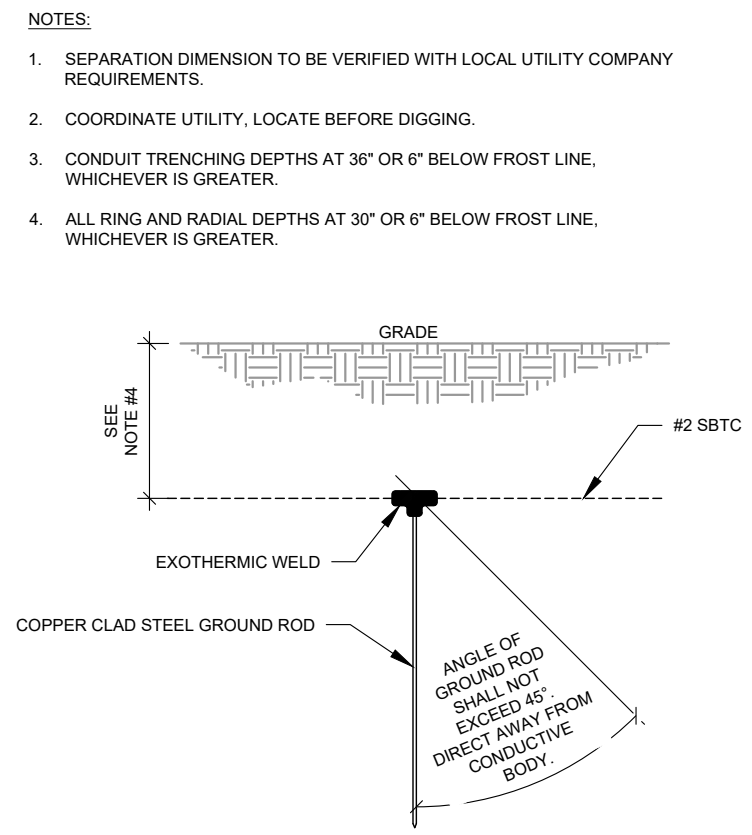
**3 TOWER GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



**GROUND BAR NOTES**

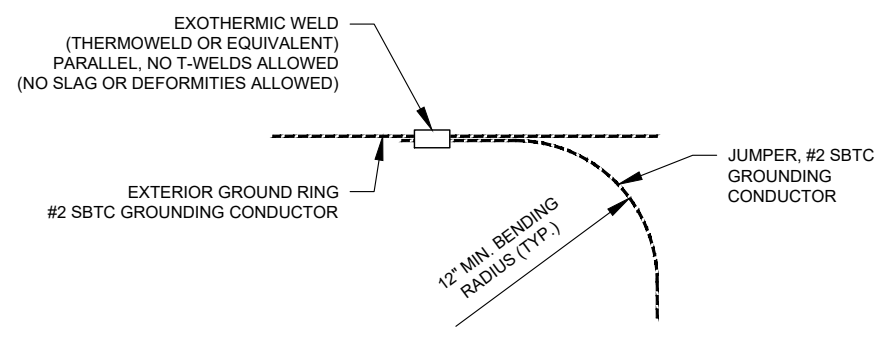
1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

**4 MAIN GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



- NOTES:**
1. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.
  2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
  3. CONDUIT TRENCHING DEPTHS AT 36" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
  4. ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.

**5 GROUND ROD DETAIL**  
SCALE: NOT TO SCALE



**6 TIE CONNECTION DETAIL**  
SCALE: NOT TO SCALE

**AMERICAN TOWER®**  
A.T. ENGINEERING SERVICE, PLLC  
3500 REGENCY PARKWAY  
SUITE 100  
CARY, NC 27518  
PHONE: (919) 468-0112  
COA: P-1177

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:  
**280848**  
ATC SITE NAME:  
**SHOEHORN NC**  
AT&T MOBILITY SITE NAME:  
**368-540**  
SITE ADDRESS:  
9316 NC 42  
HOLLY SPRINGS, NC 27540

SEAL:

DATE DRAWN: 11/24/20  
ATC JOB NO: 13247756\_G4  
CUSTOMER ID: ECL05406  
CUSTOMER #: 12682237

**GROUNDING DETAILS**

SHEET NUMBER: **E-501** REVISION: **0**

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	MG	11/24/20

ATC SITE NUMBER:  
**280848**  
 ATC SITE NAME:  
**SHOEHORN NC**  
 AT&T MOBILITY SITE NAME:  
**368-540**  
 SITE ADDRESS:  
 9316 NC 42  
 HOLLY SPRINGS, NC 27540

SEAL:

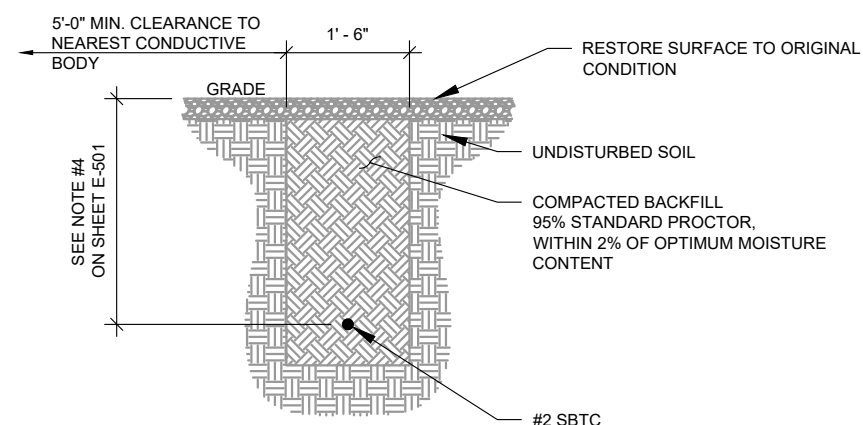


DATE DRAWN:	11/24/20
ATC JOB NO:	13247756_G4
CUSTOMER ID:	ECL05406
CUSTOMER #:	12682237

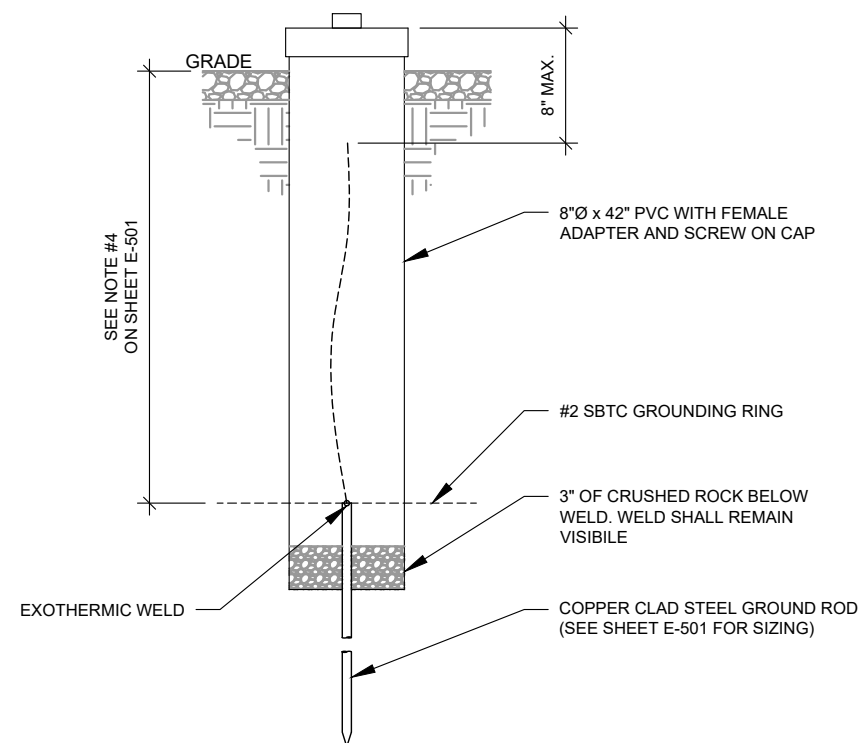
**GROUNDING DETAILS**

SHEET NUMBER:  
**E-502**

REVISION:  
**0**

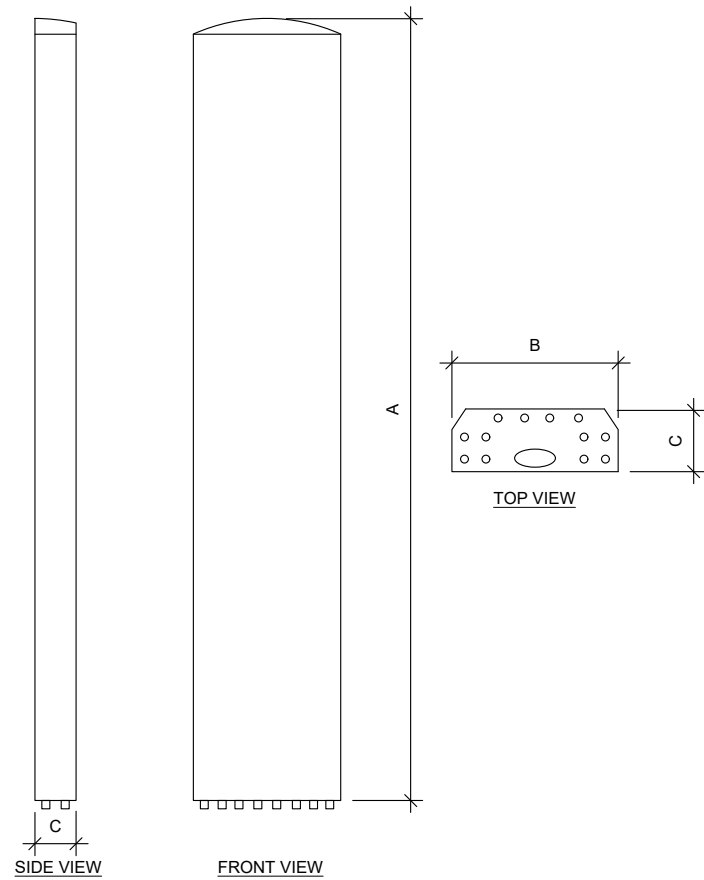


1 **GROUND CONNECTION TRENCH DETAIL (STD.)**  
 SCALE: NOT TO SCALE



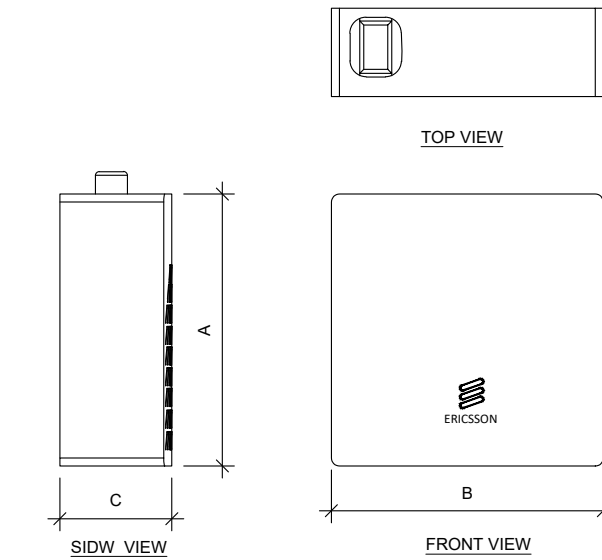
2 **TEST WELL DETAIL**  
 SCALE: NOT TO SCALE

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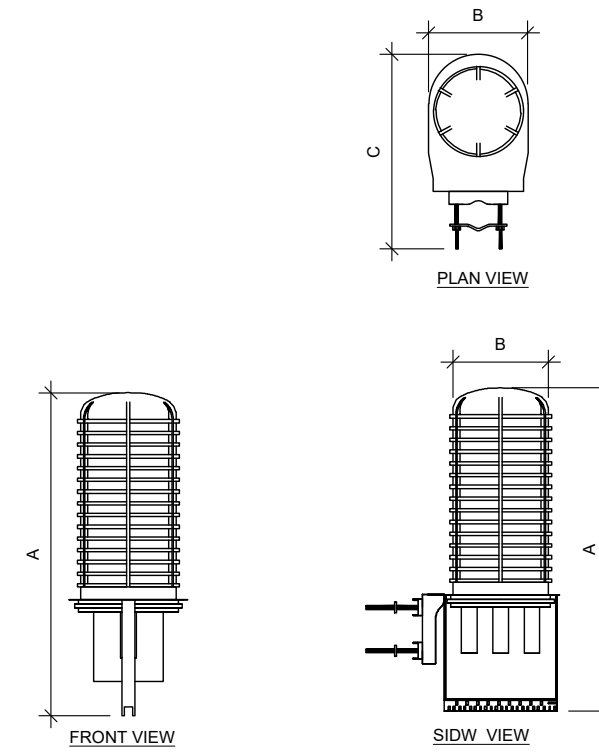
ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
NNH4-65C-R6-V3	96.0"	19.6"	7.8"	102.5

1 ANTENNA SPECIFICATIONS  
NOT TO SCALE



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4449 B5/B12	17.9"	13.2"	9.4"	71.0
4415 B25	16.5"	13.4"	5.9"	46.0
4426 B66	15.0"	13.2"	5.8"	48.4"
4478 B14	16.5"	13.4"	7.7"	59.9
4415 B30	16.5"	13.4"	5.9"	46.0

2 RRU SPECIFICATIONS  
NOT TO SCALE

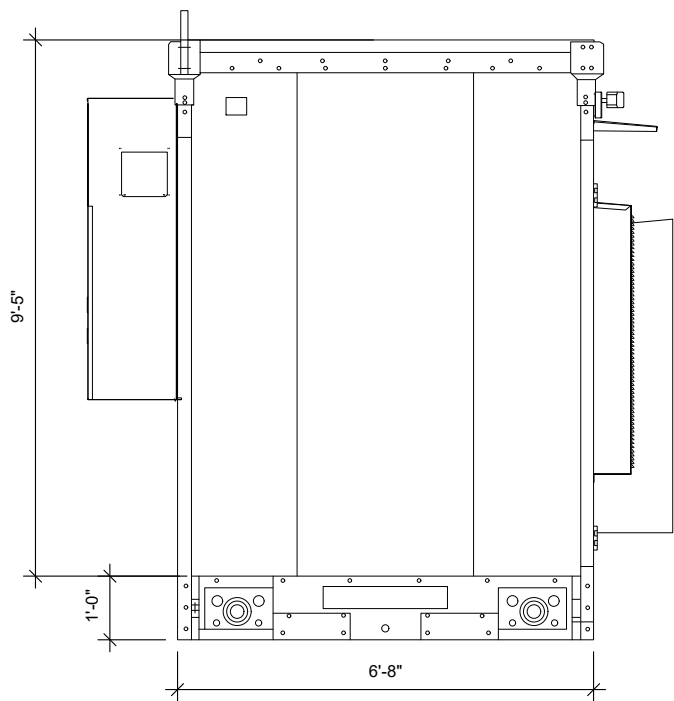


RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16.0

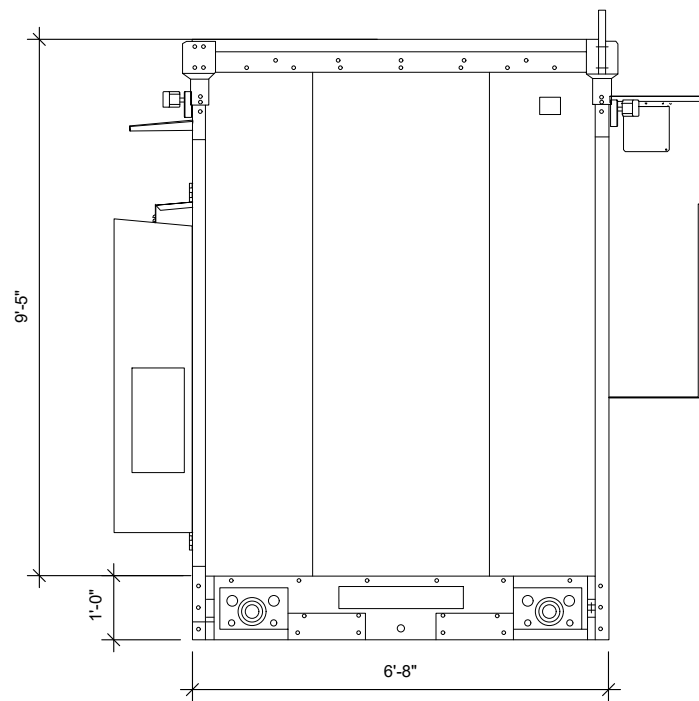
3 RAYCAP SPECIFICATIONS  
NOT TO SCALE

SUPPLEMENTAL

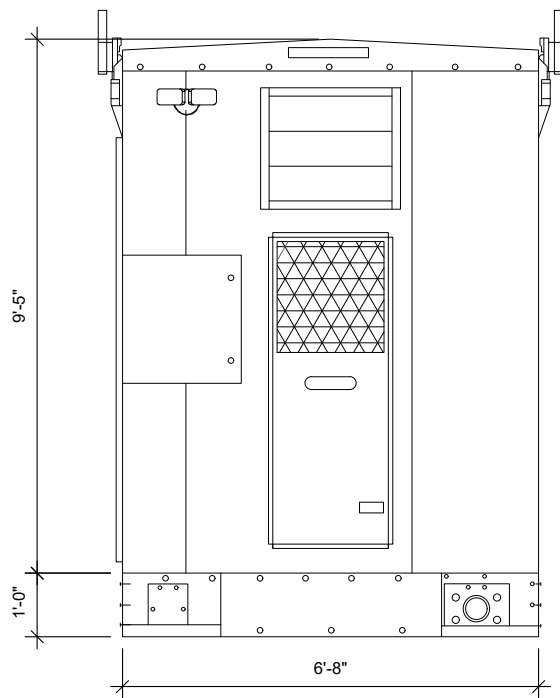
SHEET NUMBER: R-601  
REVISION: 0



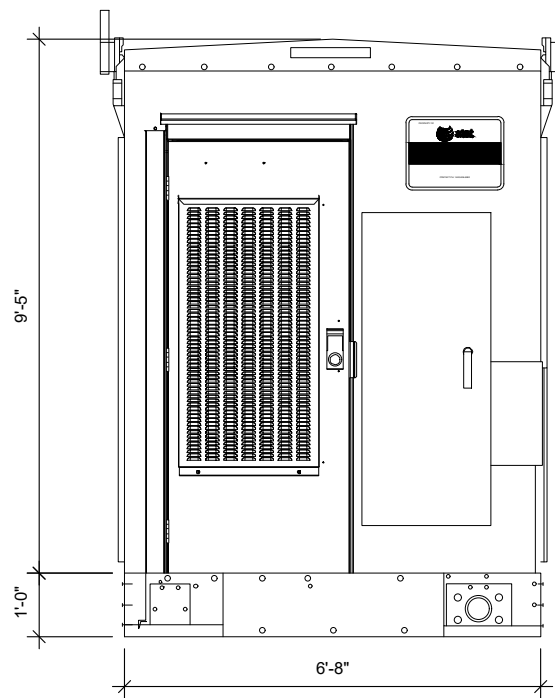
1 LEFT ELEVATION  
SCALE: NOT TO SCALE



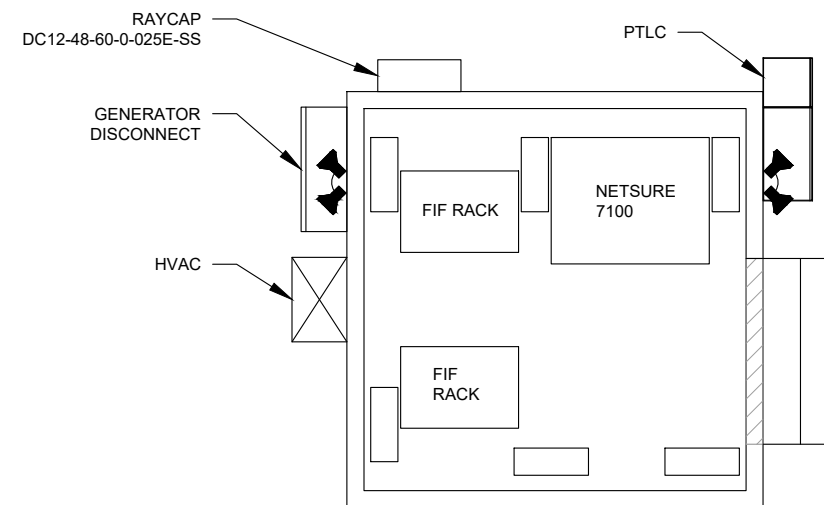
2 RIGHT ELEVATION  
SCALE: NOT TO SCALE



3 REAR ELEVATION  
SCALE: NOT TO SCALE



4 FRONT ELEVATION  
SCALE: NOT TO SCALE



5 EQUIPMENT LAYOUT  
SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER: <b>R-602</b>	REVISION: <b>0</b>
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## Antenna Mount Analysis Report

**ATC Site Name** : SHOEHORN NC, NC  
**ATC Site Number** : 280848  
**Engineering Number** : 13247756\_C8\_01  
**Mount Elevation** : 285 ft  
**Carrier** : AT&T Mobility  
**Carrier Site Name** : MRCAR033520  
**Carrier Site Number** : 368-540  
**Site Location** : 9316 NC 42  
 Holly Springs, NC 27540-7706  
 35.558333 , -78.915586  
**County** : Harnett  
**Date** : September 30, 2020  
**Max Usage** : 50%  
**Result** : Pass

Prepared By:  
Lyle Morin  
Structural Engineer

Reviewed By:



Authorized by "EOR"  
30 Sep 2020 11:47:36

COA: P-1177

### Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 285 ft.

### Supporting Documents

Specifications Sheet	Sabre C10857001C, dated December 22, 2015
Radio Frequency Data Sheet	RFDS ID #368-540, dated June 10, 2020

### Analysis

This antenna mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

Basic Wind Speed:	116 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	30 mph (3-Second Gust) w/ 1 1/2" radial ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.13, S1 = 0.064
Site Class:	D - Stiff Soil
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

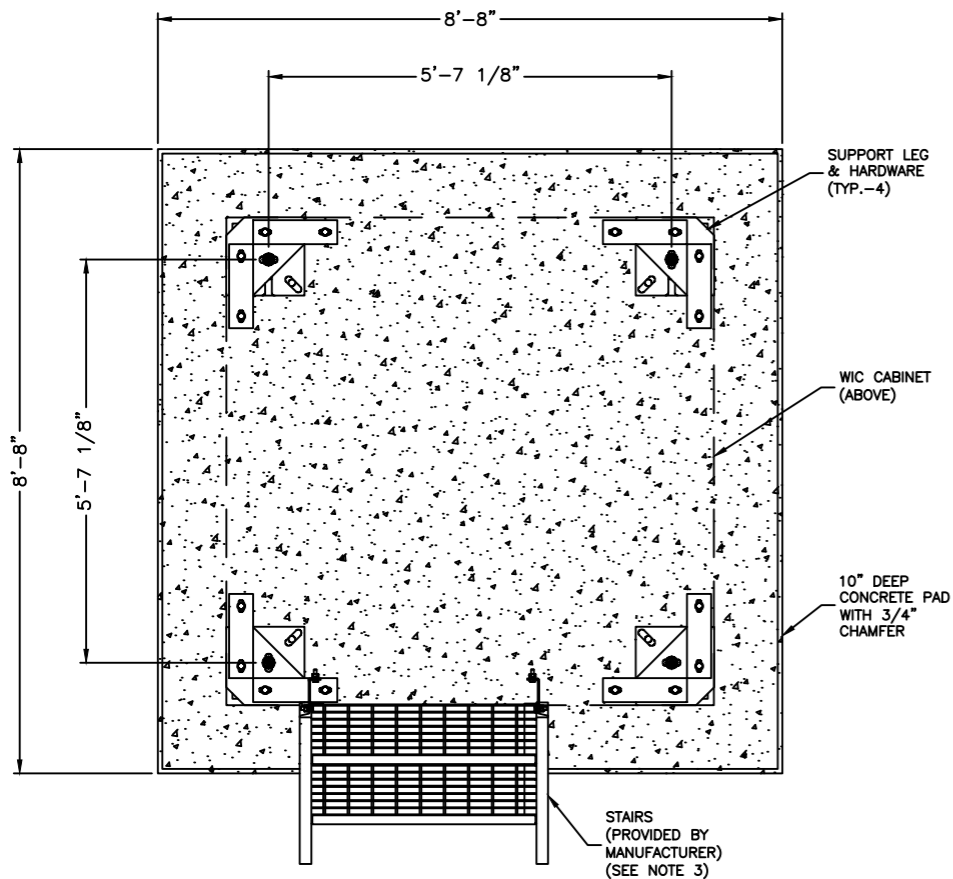
### Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report.

- Analysis is based on new Sabre C10857001C Sector Frame

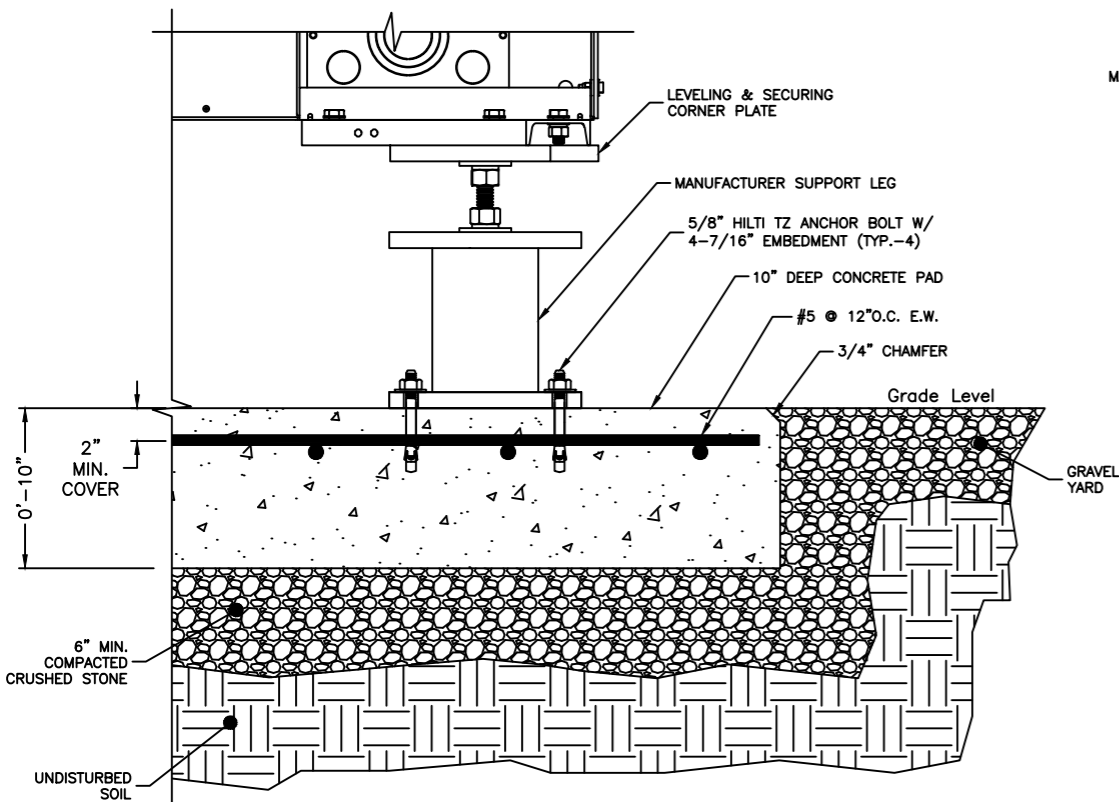
If you have any questions or require additional information, please contact American Tower via email at [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower site name, site number, and engineering number in the subject line for any questions.





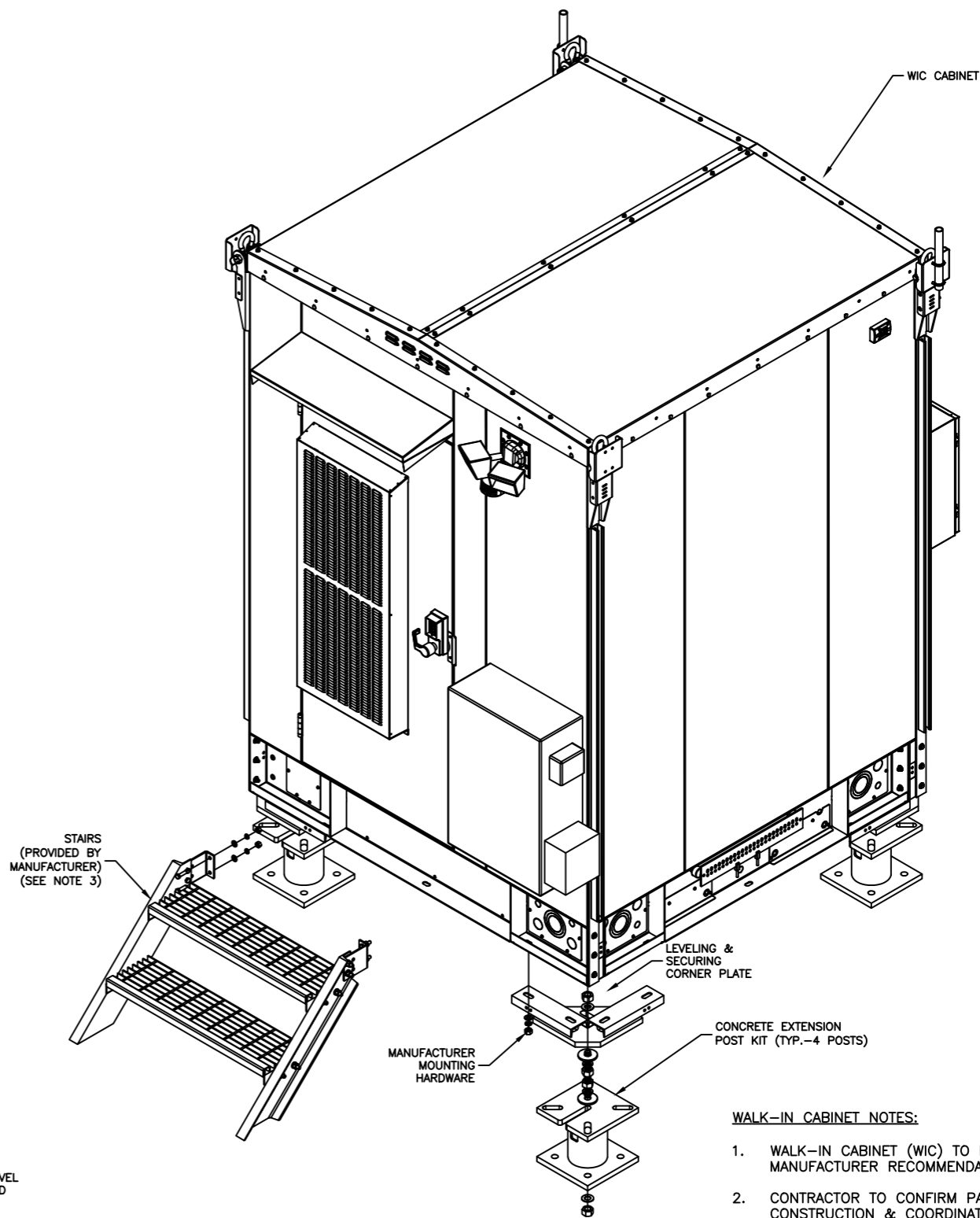
**WIC FOUNDATION DETAIL**

11"x17" SCALE: 3/8" = 1'-0"



**WIC BASE SECTION**

11"x17" SCALE: 1" = 1'-0"



**WIC ISOMETRIC**

11"x17" SCALE: N.T.S.

**WALK-IN CABINET NOTES:**

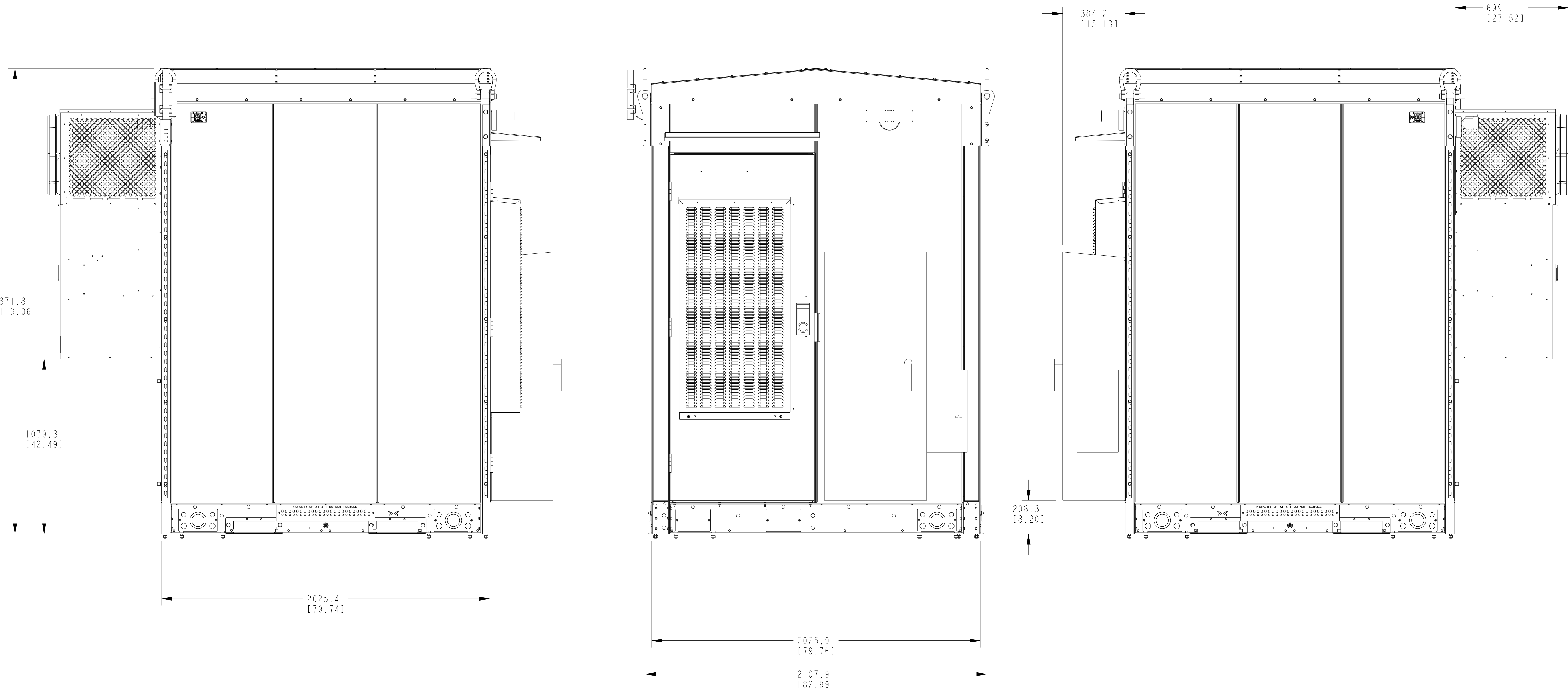
1. WALK-IN CABINET (WIC) TO BE INSTALLED ACCORDING TO MANUFACTURER RECOMMENDATIONS & SPECIFICATIONS.
2. CONTRACTOR TO CONFIRM PARTS & HARDWARE PRIOR TO CONSTRUCTION & COORDINATE WITH AT&T CM.
3. FOUNDATION TO BE FLUSH WITH EXISTING GRADE. CONTRACTOR SHALL MAINTAIN A MAXIMUM 18" CLEARANCE FROM GRADE TO BOTTOM OF WIC TO ACCOMMODATE STAIRS. VERIFY IN FIELD PRIOR TO POST INSTALLATION.
4. COORDINATE POWER & TELCO CONDUIT STUBUP PLACEMENT WITH ELECTRICAL TRADES. SEE E-1 FOR ADDITIONAL INFORMATION.
5. PROVIDE WORKING HVAC AND ELECTRICAL WORKING SPACE CLEARANCES PER MANUFACTURER RECOMMENDATIONS & CODE REQUIREMENTS.
6. WIC DIMENSIONS: 6'-8"W X 6'-8"L X 9'-6" TALL (NO BASE)  
WIC WEIGHT: 5500 LBS (EMPTY) 7500 LBS (FULLY INTEGRATED)
7. CONTRACTOR TO PROVIDE AND INSTALL SPECIFIED CONCRETE ANCHORS.

D

C

B

A



CD NO	REV	DESCRIPTION	DRAWN BY:	DATE
225752	A	PRODUCTION RELEASE	DS	08MAR19
225687	B	REPLACED BELOW PART NUMBERS PN 564400 TO PN 565723 SS# 47 PN 564999 TO PN 565724 SS# 188 PN 565000 TO PN 565725 SS# 189 PN 564406 TO PN 565727 SS# 2 PN 145342 TO PN 152086 SS#33 PN 564402 TO PN 565749 SS# 119 PN 565127 TO PN 565718 SS# 117 REMOVED PN 550633 SS# 207 REMOVED PN 564865 SS#35 CHANGED QUANTITY OF BELOW HARDWARES P34222 170 TO 130 NO SS#12 P11594 188 TO 129 NOS. SS#9 P11596 111 TO 87 NOS. SS#9 REMOVED SCREW P49462 SS#7 ADDED PART P34573 QTY-44 NOS. UPDATED THE DRAWING TO REFLECT THE CHANGES IN THE ASM 565629,565632 & 565634	MP	03MAY19
225686	C	ADDED SCREW 139410 QTY-20 SS#23 QUANTITY OF P06816 CHANGED FROM 24 TO 44 SS#198 P34224 CHANGED FROM 18 TO 38 SS#111 P34223 CHANGED FROM 83 TO 168 SS#36 119821 CHANGED FROM 93 TO 171 SS#152 P93855 CHANGED FROM 88 TO 161 SS#148 CHANGED THE QUANTITY OF PART 564389 FROM 4 TO 2 SS#46 ADDED PART 565978 SS#222 & PART565979 SS#223 UPDATED THE DRAWING TO REFLECT THE CHANGES DONE IN PN 564418, 564419, 564497, 565630, 565635, 565633, 5656502, 565626, 565620, 564397, 564398 & 565748. REPLACED LED KIT PN 564704 WITH E911199 SS#138	AT MP	07JUN19 07JUN19
225929	D	UPDATED THE DRAWING TO REFLECT THE CHANGES DONE ON PN 565840 SS# 121 AT SHEET 8	AMP MP	07JUN19 07JUN19
1005106	E	MOVED ATS 151840, SS# 80 ON SHEET 8 TO DOWN BY 107 & REGENERATED THE DRAWING TO REFLECT THE CHANGES DONE ON PN 565532,SS 40 ON SHEET 3, PN 151910,SS 76 & PN 151124, SS 87 ON SHEET 4	MK MP	17OCT19 17OCT19
1008149	F	REMOVED PN P32892 QTY: 21 FROM 61 SS# 11, CHANGED THE QTY. PN P34573 QTY. FROM 44 TO 65 SS# 218 AND PN P11594 QTY. FROM 129 TO 130 SS# AND ADDED VIEW TO SHOWN CHANGES ABOVE ON SHEET 2 AT ZONE A.7.	AMP MP	30JAN20 30JAN20
1009202	G	REPLACED THE PN 565526 WITH PN 10011762 QTY: 1 SS#42 PN 565520 WITH PN 10011771 QTY:1 SS#43, PN 151920 WITH PN 10011773 QTY: 1 SS#70, PN 151916 WITH PN 10011724 QTY:1 SS#77, PN 151921 WITH PN 10011772 QTY:1 SS#78 AND PN 565522 WITH PN 10011628 QTY:1 SS#133,REMOVED 565535 AND 565580 EACH QTY:1 SS#200, SS#215 RESP. CHANGED QTY. FROM 4 TO 2 198839 SS#206, FROM 80 TO 76 PN P34225 SS#4 AND FROM 27 TO 25 PN P93876 SS#199,ADDED GASKET 126186 QTY: 11 & 17.	AMP MP	09MAR20 09MAR20
1009347	H	REGENERATED DRAWINGS TO REFLECT CHANGE DONE ON PN 565478 SS#129 ON SHEET 6.	AS MP	31MAR20 31MAR20
1010322	J	SHIFT GROUND BAR 4" TOWARDS THE DOOR, P10; D:5; D:6 398, 130.7 MM	NNC MP	08APR20 06APR20
1010780	K	P2:REPLACE PN 565033 BY PN 10012357 SS# 192 QTY 1, PN 565032 BY PN 10012401 SS#191 QTY 1 P3:ADD NOTE 2, REPLACE CATCH PLATE REPLACE PN 565022 BY PN 10012357 SS#40 QTY 1 P6: ADD PN 10012301 SS#225 QTY 1,PN P06302 SS#226 QTY 2 CHANGE QTY OF P06816 44 TO 46 SS#198, P15656 20 TO 22 SS#197 ADD PN 137789 SS#149 ON PN 10012357	NNC MP	17APR20 MP 17APR20
1012633	L	P7; D5,D6 ADD QTY 6, PN P93876 SS199 & P34225 SS64.	MK MP	05JUN20 05JUN20

D

C

B

A

COMPONENTS CASE CODE: 1EDCC

1000 DEARBORN DRIVE  
COLUMBIANA, OHIO 43085

PART NUMBER: 608 VMC BASE CAB

DESCRIPTION: 608 VMC BASE CAB

DESIGNED BY: DS DATE: 02NOV18 SHEET: 1/10

DATE: 02NOV18

SCALE: D 0.075

REVISIONS: CONTROL CHANGES

REVISION: C

REVISION DESCRIPTION: CONTROL CHANGES

REVISION: 1

REVISION DESCRIPTION: CONTROL CHANGES

REVISION: 2

REVISION DESCRIPTION: CONTROL CHANGES

REVISION: 3

REVISION DESCRIPTION: CONTROL CHANGES

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REVISION DESCRIPTION: CONTROL CHANGES

REVISION: 98

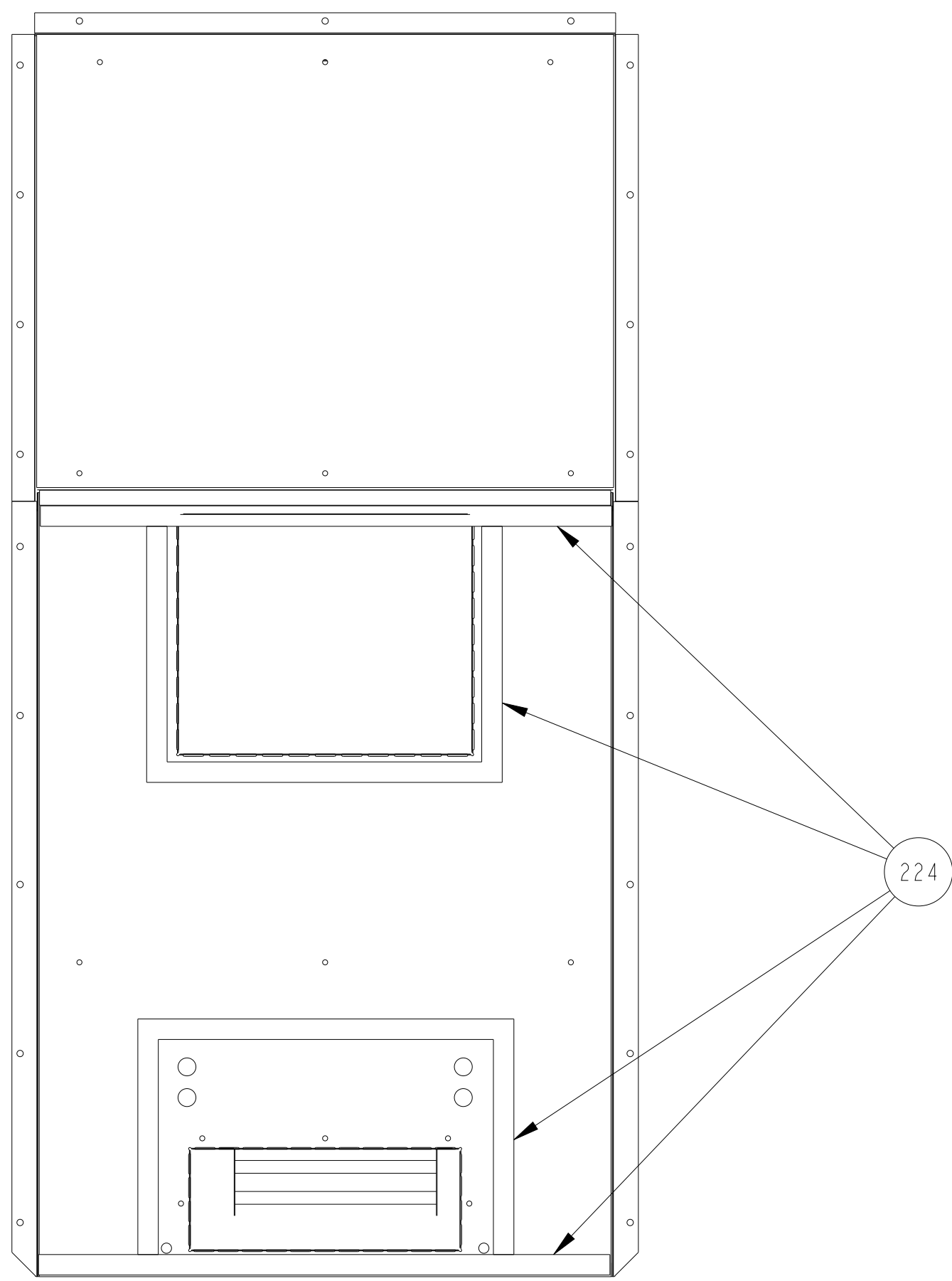
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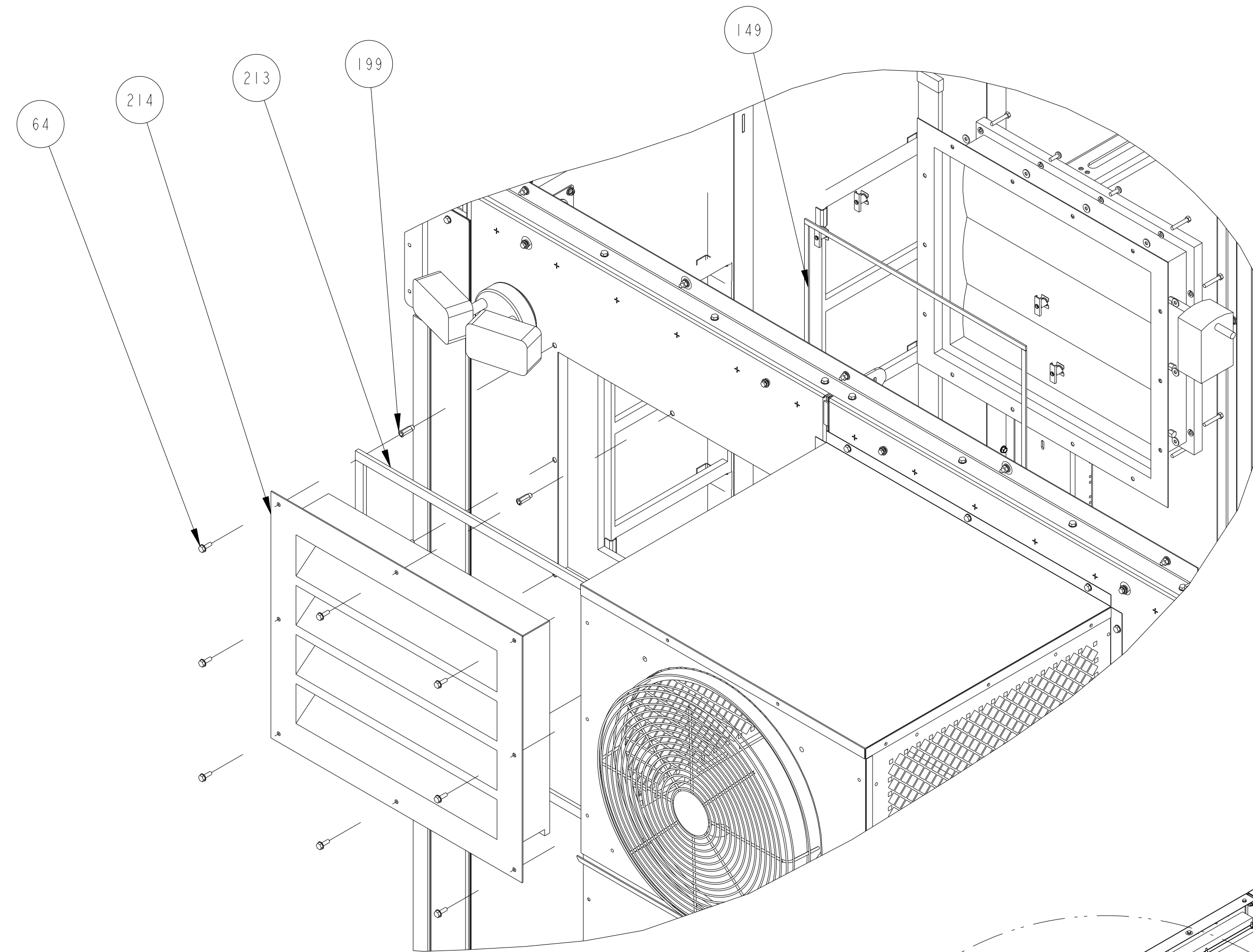
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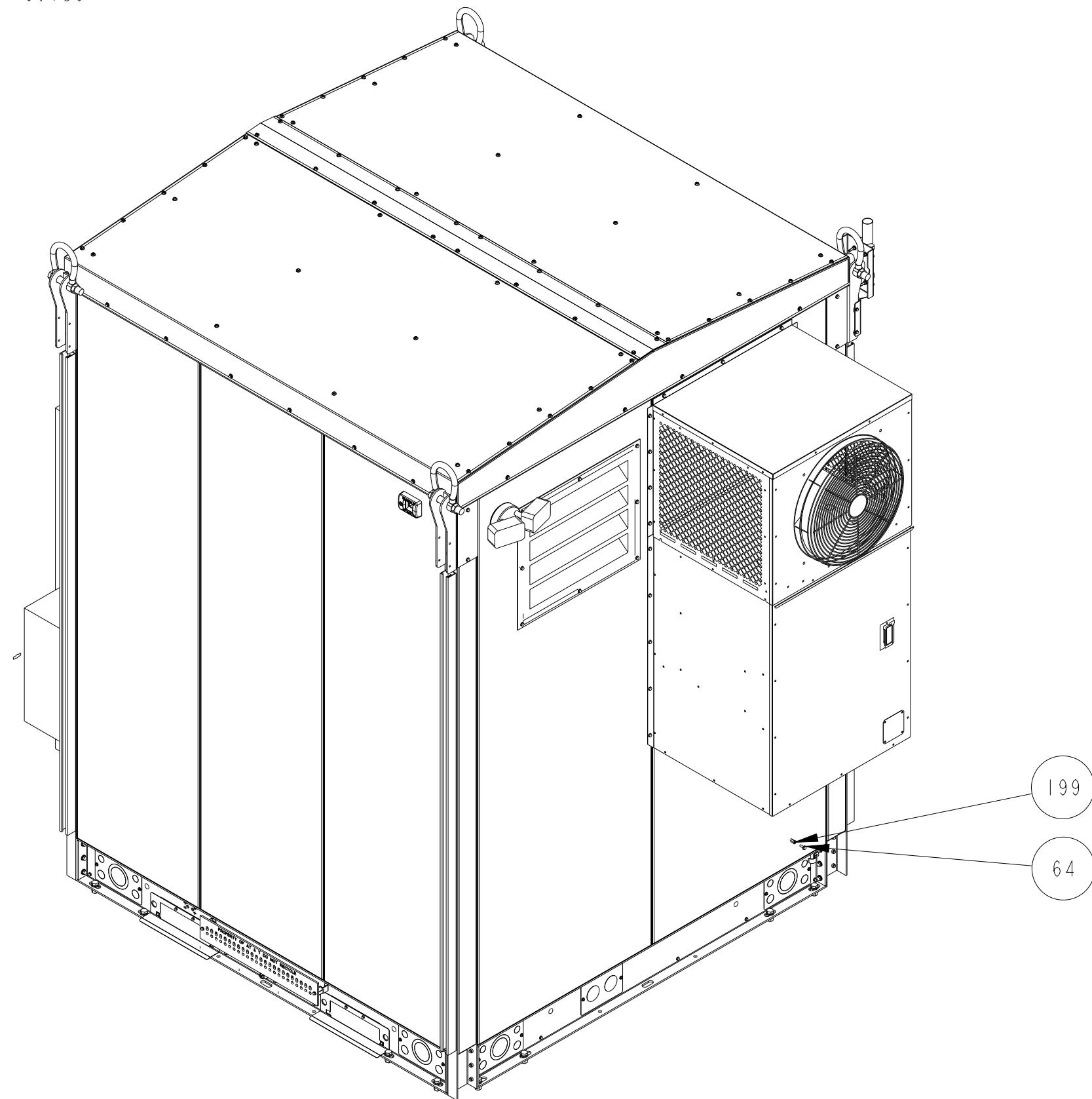
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**GASKET INSTALLATION**  
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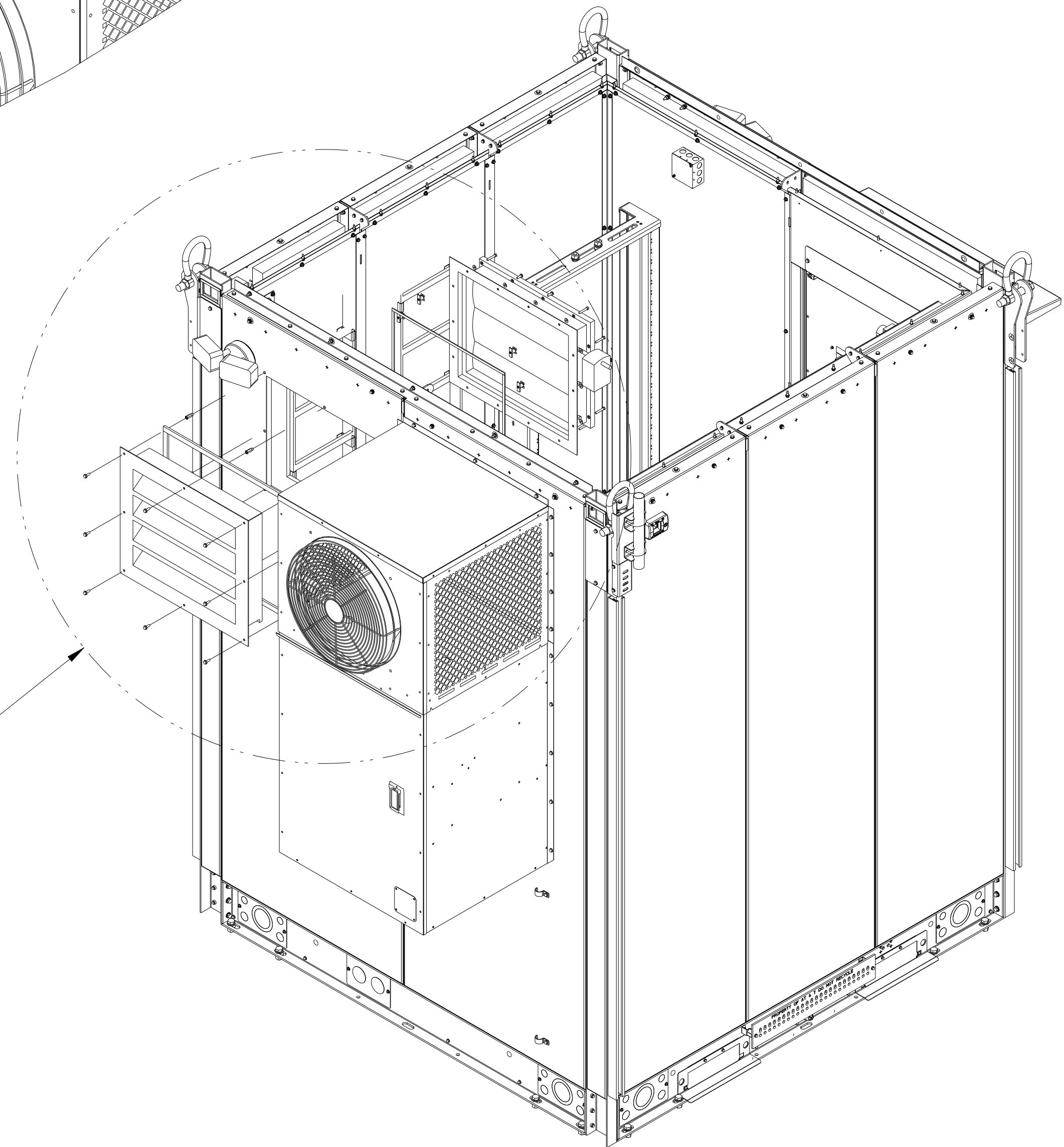


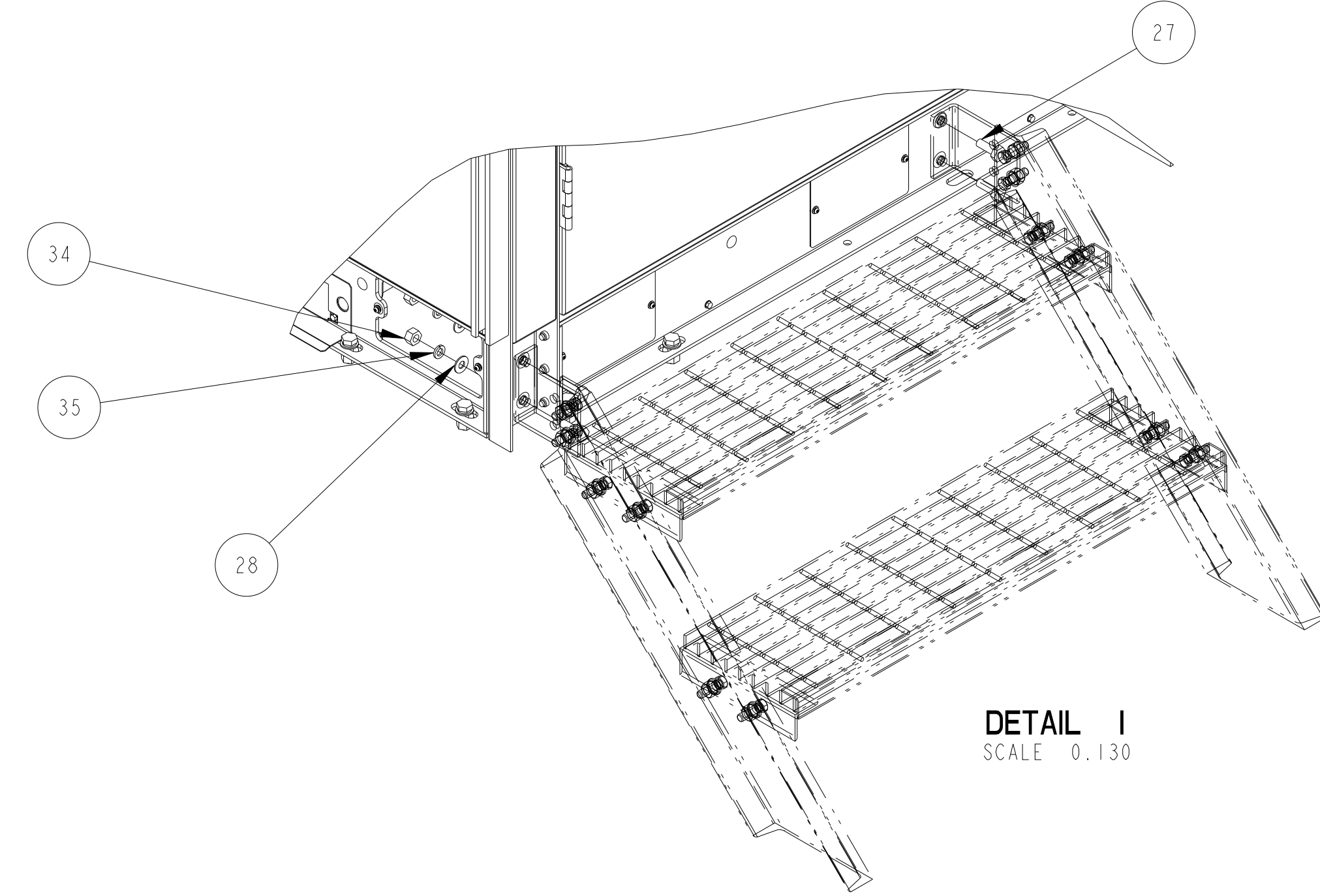
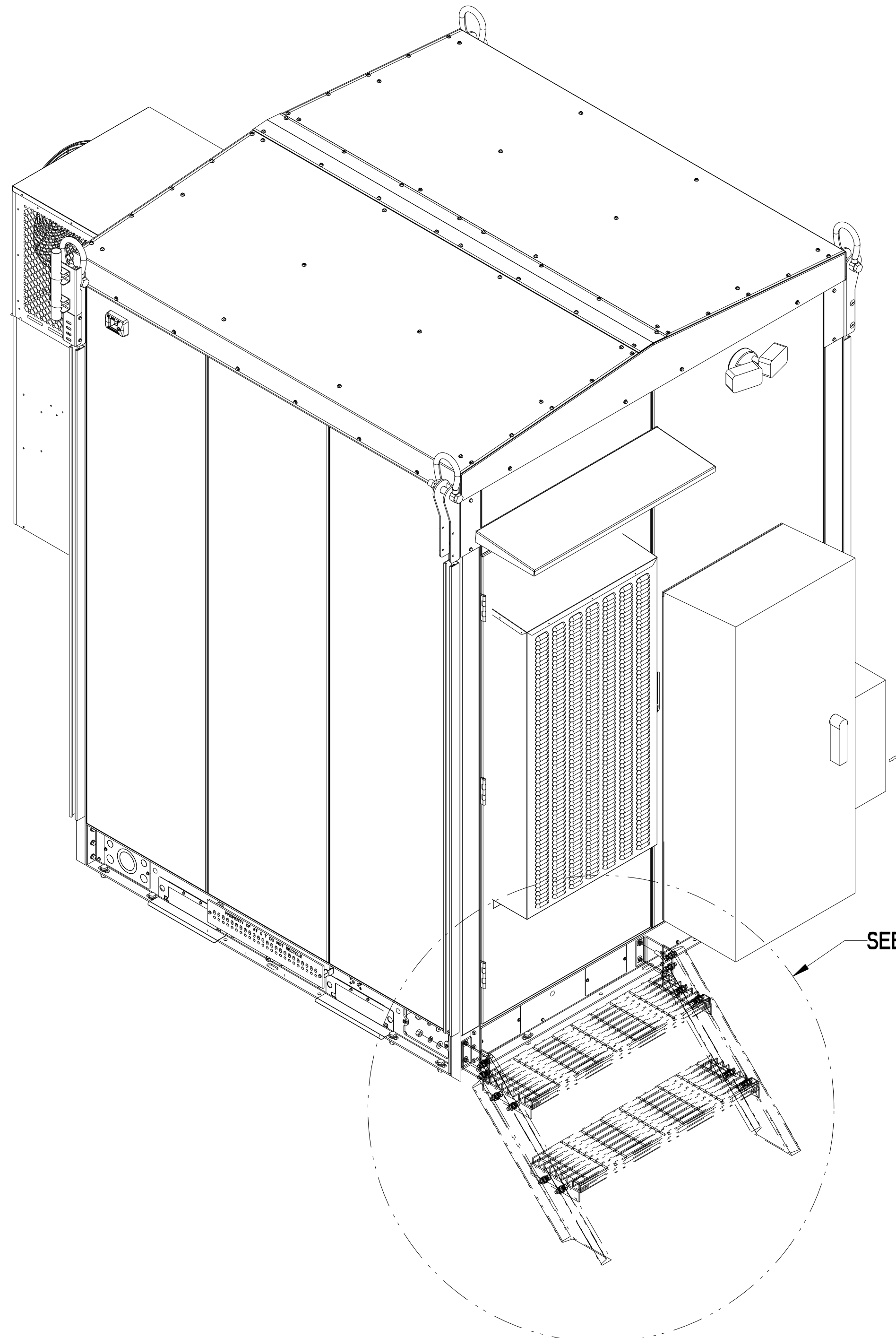
**DETAIL J**  
SCALE 0.150



SCALE 0.055

SEE DETAIL J

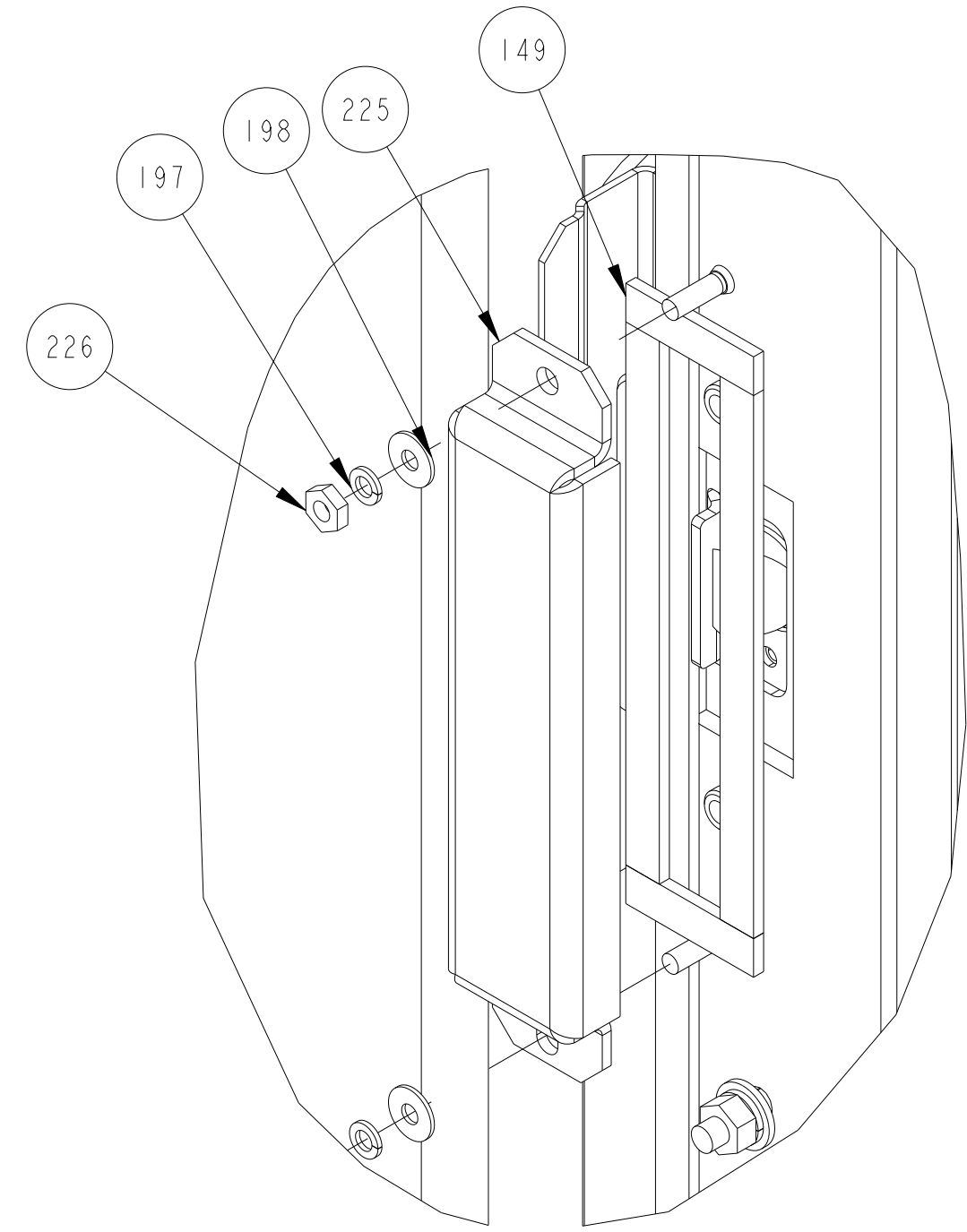




DETAIL I  
SCALE 0.130

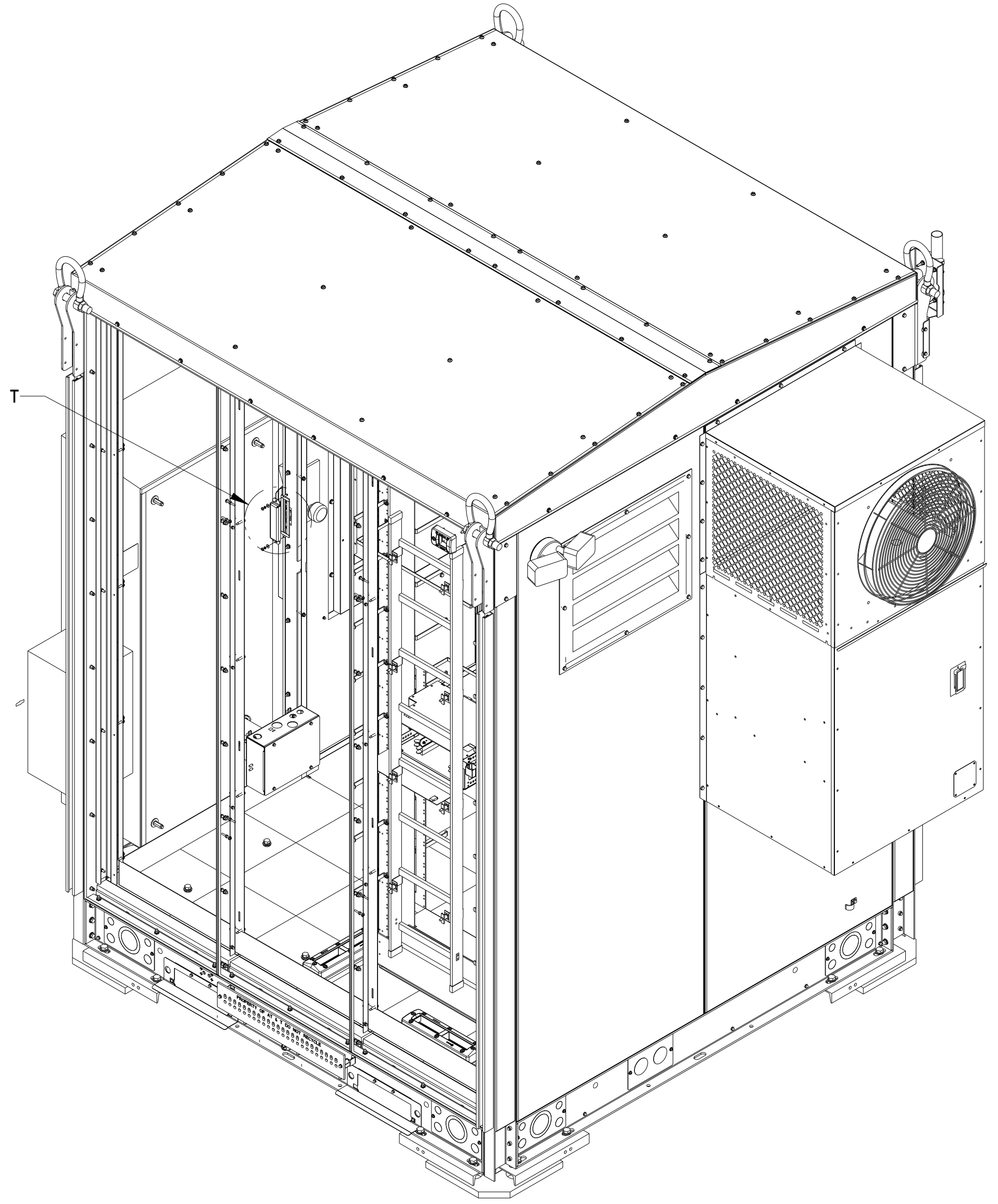
CABLE ENTRY PLATE HIDDEN TO SHOW STAIR HARDWARE

SEE DETAIL I



DETAIL T  
SCALE 0.700

SEE DETAIL T



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D  
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B  
A

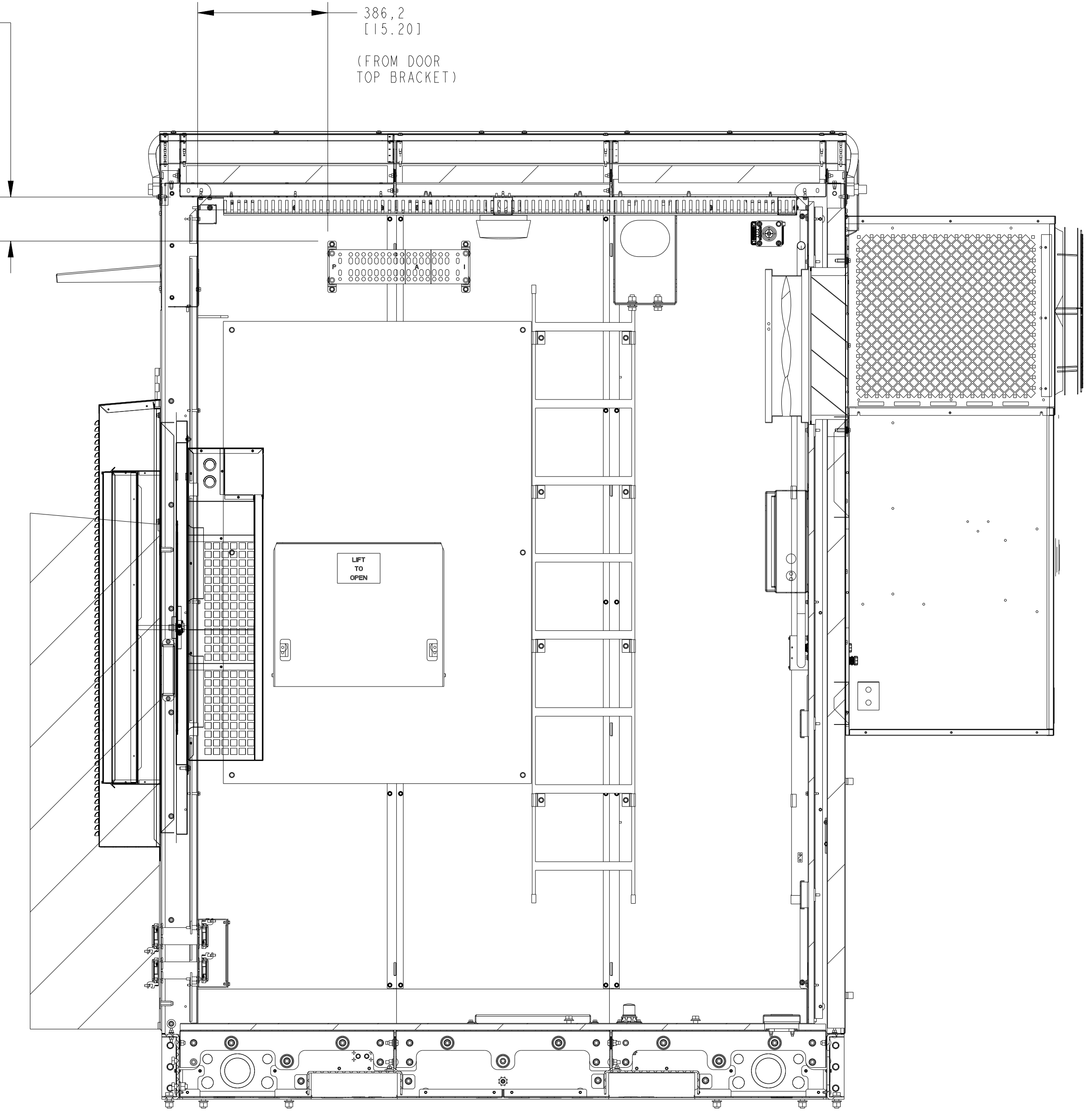
8 7 6 5 4 3 2 1

D

D

130,7  
[5.15]  
(FROM INSIDE OF  
CEILING WALL)

386,2  
[15.20]  
(FROM DOOR  
TOP BRACKET)



SECTION A-A  
SCALE 0.100

C

C

B

B

A

A

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D

D

C

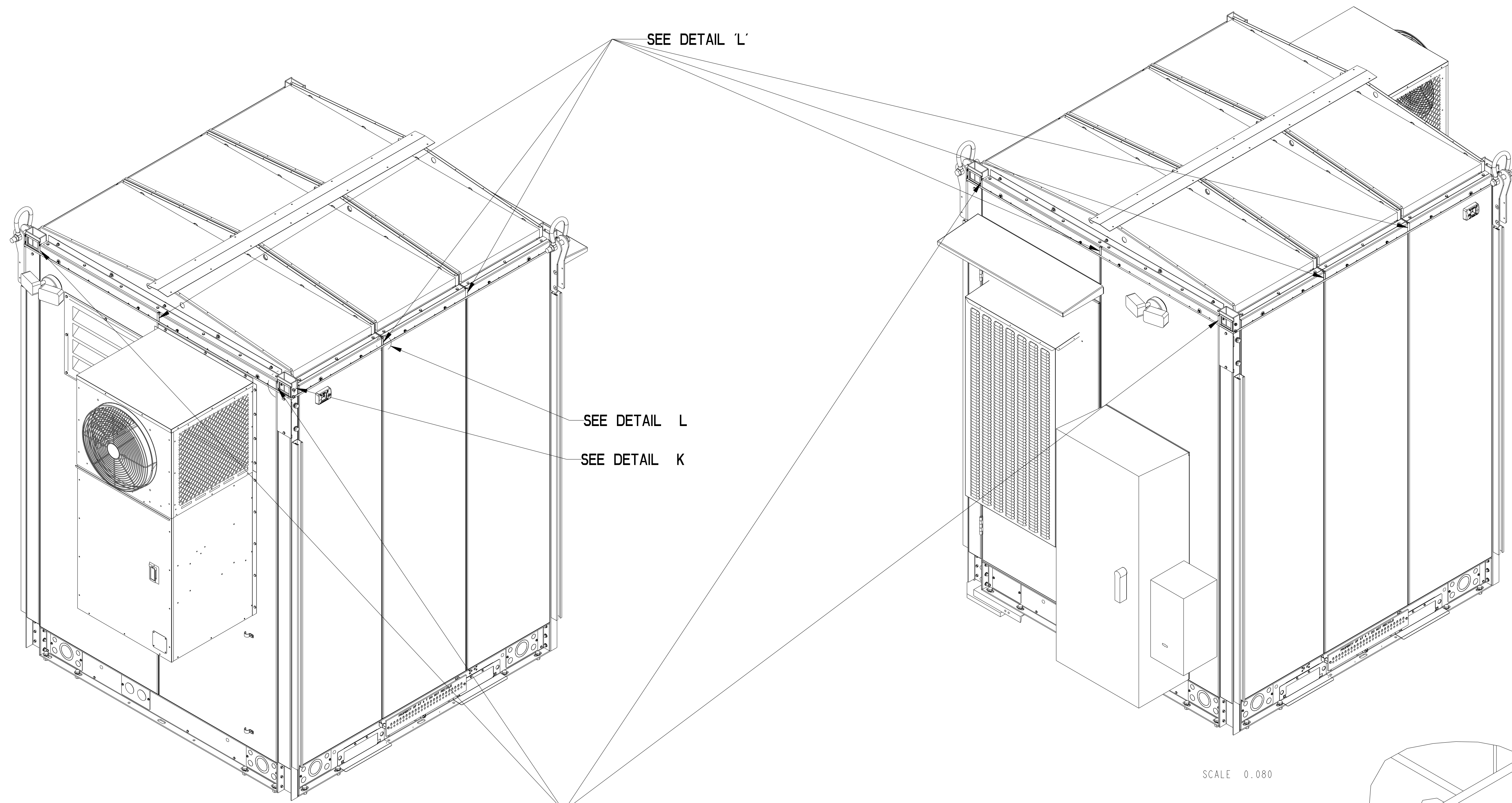
C

B

B

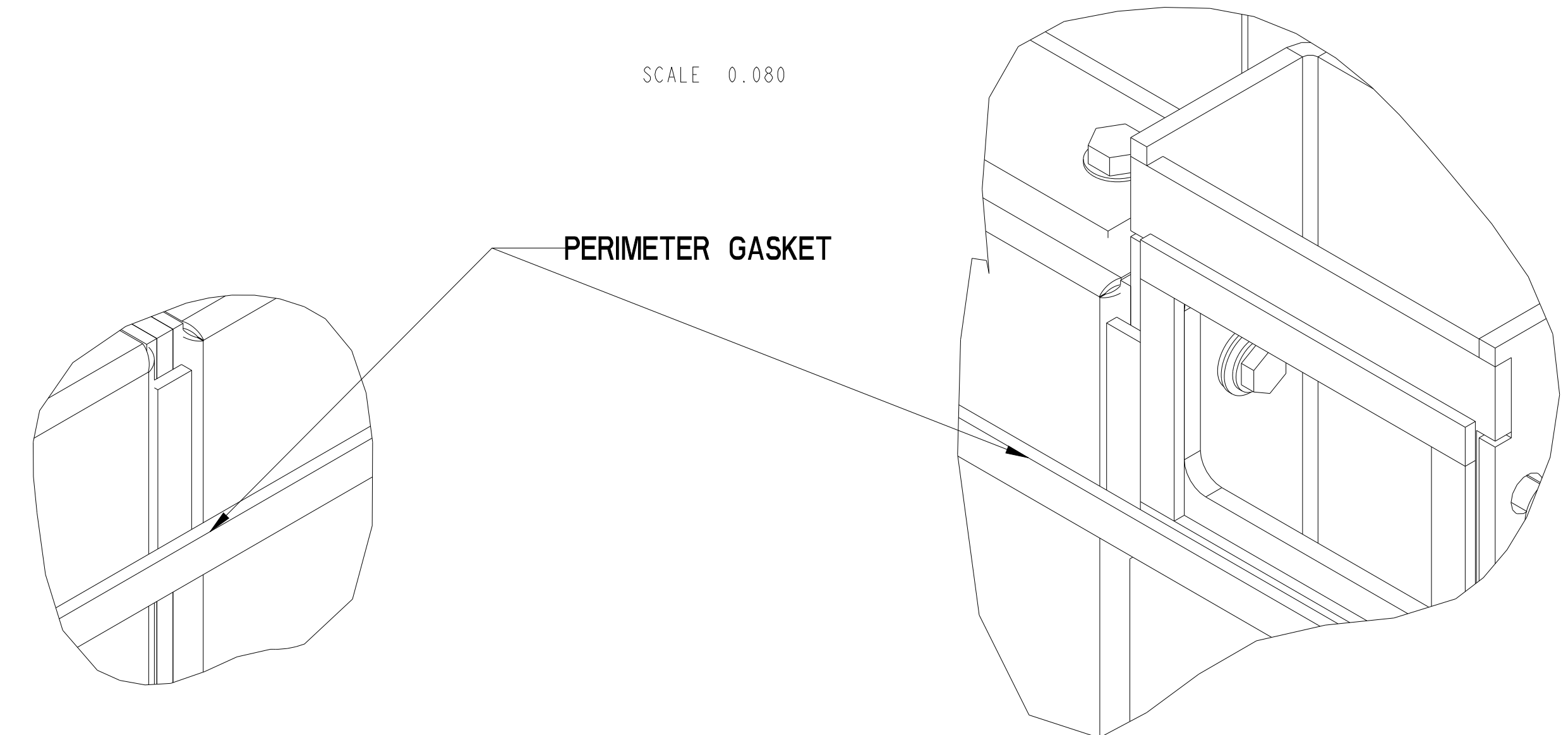
A

A



SCALE 0.080

SCALE 0.080



PERIMETER GASKET

APPLY GASKET 137769 BEHIND PERIMETER GASKET AND ITS FLUSH WITH BOTTOM OF PERIMETER GASKET. THIS WILL BE APPLY AT ALL FOUR CORNERS. IN THIS VIEW GPS ASSEMBLY REMOVED TO SHOW CLEAR VIEW OF GASKET.

APPLY GASKET 137769 BEHIND PERIMETER GASKET AND ITS FLUSH WITH BOTTOM OF PERIMETER GASKET. AT ALL 6 SEAM LOCATION

DETAIL L  
SCALE 1.000

DETAIL K  
SCALE 1.000

8 7 6 5 4 3 2 1

4

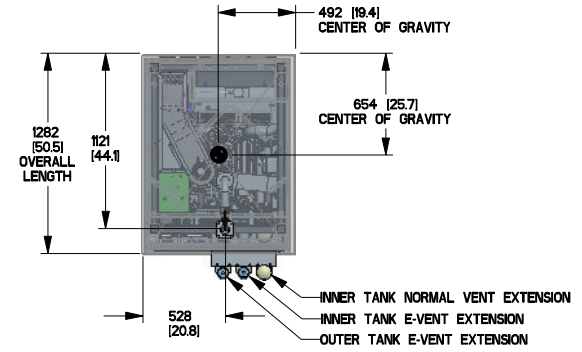
3

SH 1/2 REV 1 WINDCHILL VERSION 1.2

1

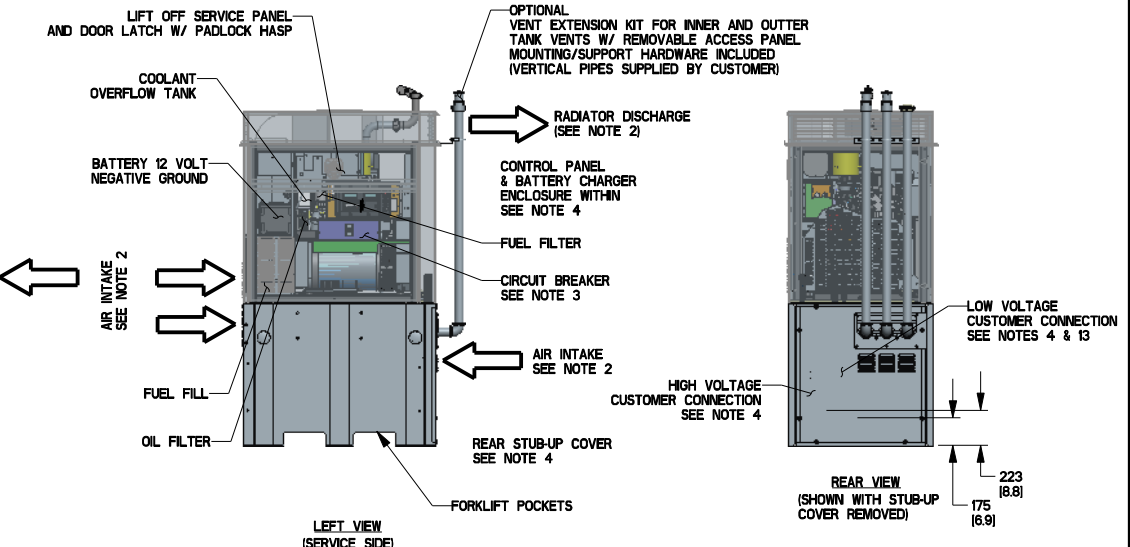
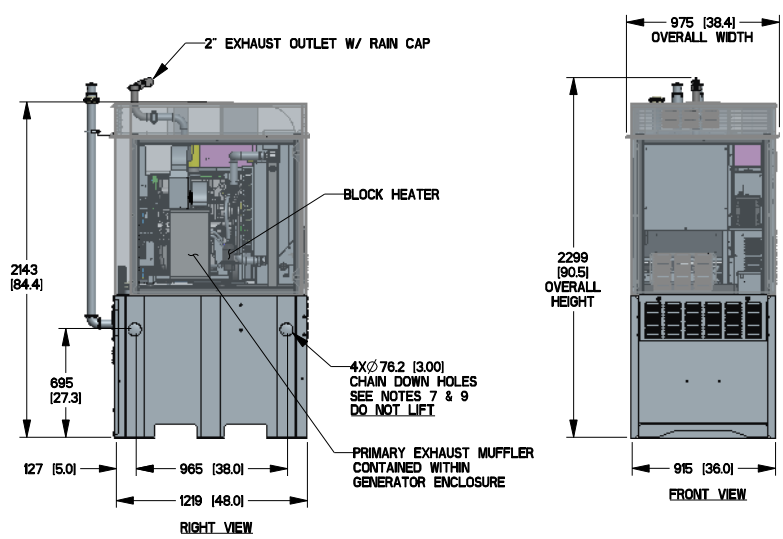
- NOTES:
- REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
  - ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE/SERVICE, INTAKE AIR FLOW, AND RADIATOR/EXHAUST DISCHARGE. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE AND LOCAL CODES.
  - CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
    - SEE SPECIFICATION SHEET OR OWNERS MANUAL
    - ACCESSIBLE WITH REMOVAL OF SERVICE PANEL
  - REMOVE THE REAR TANK STUB-UP COVER TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
    - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION, AND ENGINE BLOCK HEATER 120 VOLT AC FACTORY WIRED CONNECTION.
    - LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES AND ACCESSORY RELAY CONNECTION (QTY 4)
  - CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
  - EXHAUST SYSTEM MAXIMUM BACK PRESSURE: 24.0 INCHES OF H2O
  - REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
  - MOUNTING BOLTS OR STUDS TO MOUNTING PAD SHALL BE 5/8-11 GRADE 5. (USE STANDARD SAE TORQUE SPECS)
  - CHAIN DOWN HOLES MUST BE PLUGGED AFTER INSTALLATION. PLUGS ARE PROVIDED AND ARE LOCATED IN THE LOOSE VENTS/FUEL FILL KIT.
  - STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN REAR TANK STUB-UP AREA.
  - UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
  - TRANSFORMER SWITCH/COMMUNICATION CONDUITS - COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT WITH AC WIRING.
  - CONTROL WIRES TO BE SHIELD AND TWISTED PAIR (40M MAX LENGTH).

ITEMS ACCESSIBLE SERVICE SIDE OF UNIT	WEIGHT DATA WITH EMPTY BASETANK (SEE NOTE 5)		WEIGHT DATA WITH FULL BASETANK (SEE NOTE 5)	
	GENERATOR AS SHOWN	APPROX:1088.6 KG [2400 LBS]	GENERATOR AS SHOWN	APPROX:1395 KG [3075 LBS]
BATTERY				
CONTROL PANEL				
COOLANT OVERFLOW TANK				
COOLANT DRAIN				
MOTOR OIL DIPSTICK				
FUEL FILTER				
OIL FILL				
OIL FILTER				
OIL DRAIN				
MLCB				
FUEL FILL				
AIR FILTER				



B

B



A

A

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

DIMENSION: mm (inch)

# INSTALLATION DRAWING

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**GENERAC**

TITLE  
STUB-UP VIEW  
INSTALL, D2.5L 20 KW AC, TELECOM

ISSUE DATE:

SIZE B	CAGE NO N/A	DWG NO 10000013144	REV 1
SCALE 0.032	WT-KG	SHEET 1 of 2	

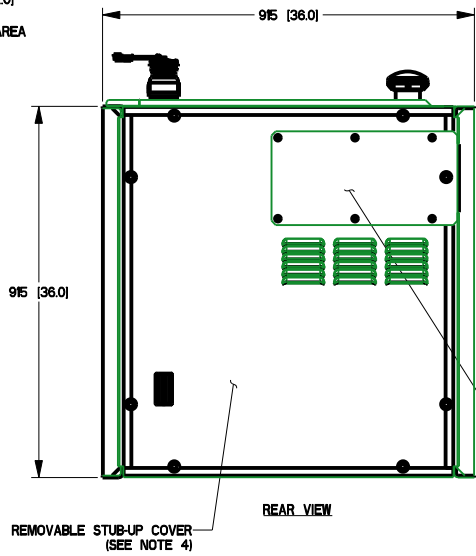
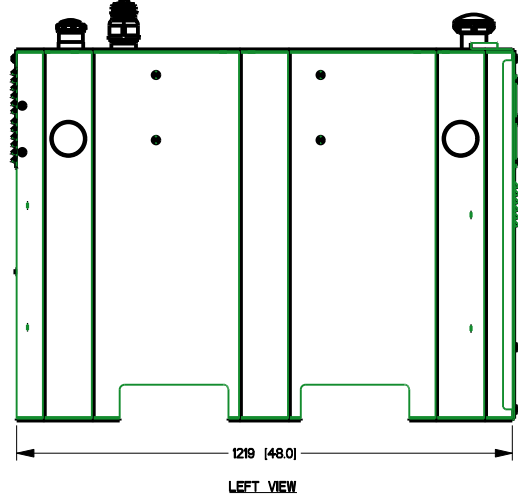
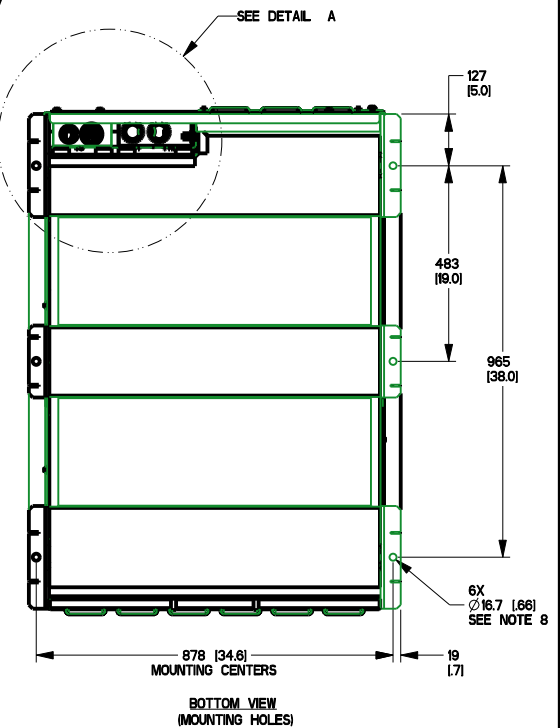
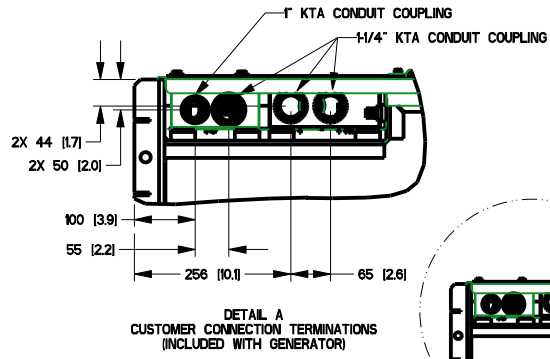
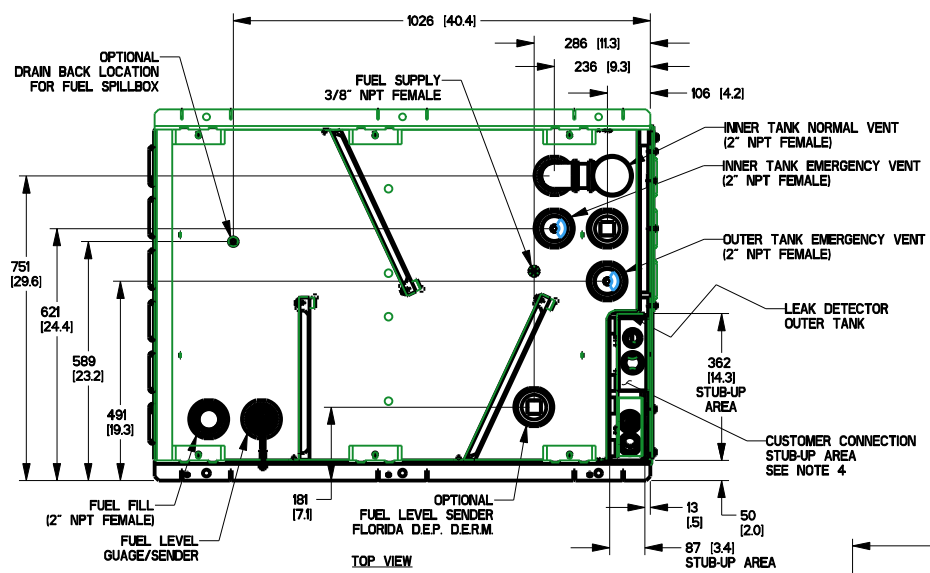
4

3

2

1

FUEL TANK	
TOTAL CAPACITY	363.4 [97]
USABLE CAPACITY	348.3 [92]
CAPACITY: LITER [GALLON] DIMENSION: mm [inch] THIS TANK IS LISTED TO UL142	



REMOVE VENT ACCESS PANEL TO ALLOW TANK VENTS TO TERMINATE OUTSIDE OF THE GENERATOR ENCLOSURE (IF LOCAL CODE APPLIES, OPTIONAL KIT AVAILABLE)

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

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ELECTRONICALLY APPROVED INSIDE WINDCHILL

<b>GENERAC</b>				
TITLE				
STUB-UP VIEW INSTALL, D2.5L 20 KW AC, TELECOM				
ISSUE DATE:				
SIZE	CAGE NO	DWG NO	REV	
B	N/A	10000013144	1	
SCALE	0.083	WT-KG	SHEET 2 of 2	