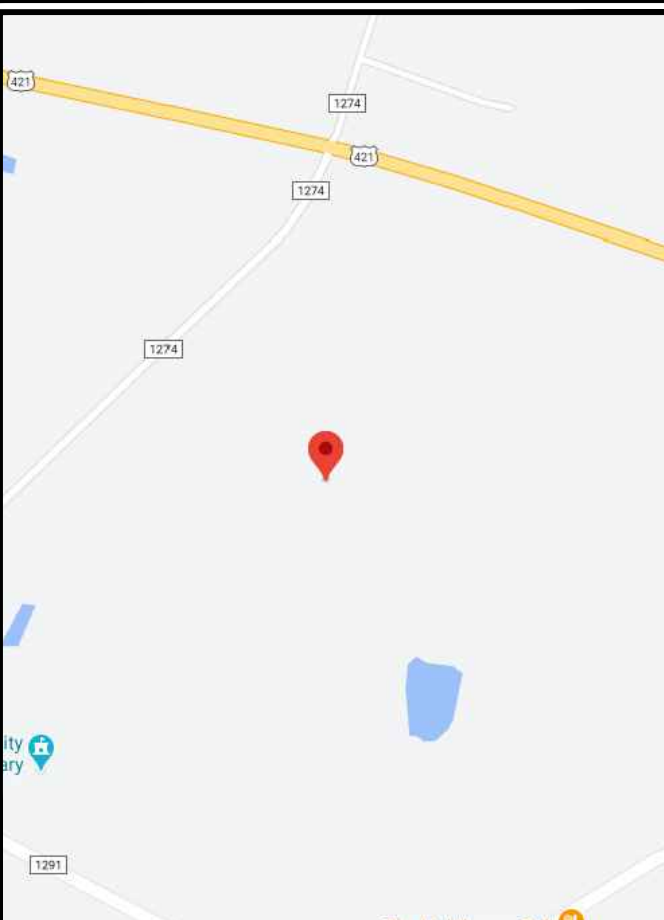


AT&T SITE NUMBER : 368-323
PROJECT DESCRIPTION: CO-LOCATION ON AN EXISTING MONOPOLE TOWER
TOWER TYPE: 195' MONOPOLE
SITE ADDRESS: 179 DEAN RD
 LILLINGTON, NC 27546
 (HARNETT COUNTY)
JURISDICTION: HARNETT COUNTY
AREA OF CONSTRUCTION: 300 ± SQ. FT. (LEASE AREA)
PRESENT OCC. TYPE: TELECOMMUNICATIONS FACILITY
CURRENT ZONING: RA-30
PIN #: 0610-28-6363.000

PROJECT INFORMATION

LATITUDE: N 35° 25' 16.86" (35.4213611)
LONGITUDE: W 78° 57' 24.63" (-78.9568333)
GROUND ELEVATION: ±366.1' (AMSL)

TOWER COORDINATES



LOCATION MAP

PROJECT INFORMATION:



at&t

**179 DEAN RD
 LILLINGTON, NC 27546
 (HARNETT COUNTY)**

**AT&T SITE #: 368-323
 FA LOCATION CODE: 12855920**

TOWER OWNER:
NAME: AMERICAN TOWER CORPORATION
ADDRESS: 10 PRESIDENTIAL WAY
 WOBURN, MA 01801
CITY, STATE, ZIP:
CONTACT: MARK LANDERS
PHONE: (336) 287-9779
SITE ID: 414969
SITE NAME: MAMERS NC

APPLICANT/LESSEE:
NAME: AT&T MOBILITY
ADDRESS: 2002 PISGAH CHURCH RD, STE 300
 GREENSBORO, NC 27455
CITY, STATE, ZIP:
CONTACT: KEN WELKER
PHONE: (336) 549-9987
NOC #: (800) 638-2822

SITE PROJECT MANAGER:
NAME: HIGH PERFORMANCE SERVICES, LLC
ADDRESS: 3001 MILLS ST
 LAFAYETTE, LA 70507
CITY, STATE, ZIP:
CONTACT: ALLYSON POE
PHONE: (919) 961-1747

CIVIL ENGINEER:
NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 326 TRYON ROAD
 RALEIGH, NC 27603
CITY, STATE, ZIP:
CONTACT: SCOTT C. BRANTLEY, P.E.
PHONE: (919) 661-6351

ELECTRICAL ENGINEER:
NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 326 TRYON ROAD
 RALEIGH, NC 27603
CITY, STATE, ZIP:
CONTACT: MARK S. QUAKENBUSH, P.E.
PHONE: (919) 661-6351


CONTACT INFORMATION

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:
 1. NORTH CAROLINA BUILDING CODE (2018 EDITION)
 2. NORTH CAROLINA CODE COUNCIL
 3. ANSI/TIA-222-H
 4. 2017 NCEC (2017 NEC & NC ADDENDUM)
 5. LOCAL BUILDING CODE
 6. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

UTILITIES:
POWER COMPANY: SOUTH RIVER ELECTRIC MEMBERSHIP CORP
CONTACT: CUSTOMER SERVICE
PHONE: (910) 892-8071
METER # NEAR SITE: 98 172 745
TELEPHONE COMPANY: CENTURYLINK
CONTACT: CUSTOMER SERVICE
PHONE: (800) 244-1111
PHONE # NEAR SITE: (910) 984-1094
PEDESTAL # NEAR SITE: UNKNOWN

PROPERTY OWNER:
NAME: WOMACK DEBRA D
ADDRESS: 177 DEAN RD
 LILLINGTON, NC, 27546
CITY, STATE, ZIP:
CONTACT: WOMACK DEBRA D
PHONE: (910) 893-4837

APPLICANT/LESSEE:

 2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455
 OFFICE: (336) 286-6163
 NOC #: (800) 638-2822

PLANS PREPARED FOR:

 3001 MILLS STREET
 LAFAYETTE, LA 70507

SHEET	DESCRIPTION	REV
T1	TITLE SHEET	5
T2-T6	APPENDIX B	5
N1	GENERAL NOTES	5
SP1	SITE PLAN	5
C1	PROPOSED COMPOUND DETAIL	5
C2	TOWER ELEVATION	5
C3	WIC DETAILS	5
C4-C4A	FOUNDATION DETAILS	5
C5	ICE BRIDGE DETAILS I	5
C6	ICE BRIDGE DETAILS II	5
C7A	GENERATOR SPECIFICATIONS I	5
C7B	GENERATOR SPECIFICATIONS II	5
C8	GENERATOR FOUNDATION & SIGNAGE DETAILS	5
C9	ANTENNA MOUNTING DETAILS	5
C10	SIGNAGE DETAILS	5
E1	ELECTRICAL NOTES	5
E2A	ONE-LINE DIAGRAM	5
E2B	PANEL SCHEDULE	5
E3	SERVICE ROUTING PLAN	5
E4	GROUNDING PLAN	5
E5	GROUNDING DETAILS I	5
E6	GROUNDING DETAILS II	5
	APPENDIX	
	PROPOSED MOUNT MODIFICATIONS	
	PROPOSED STANDOFF MOUNT SPECIFICATIONS	
	PROPOSED MOUNT SPECIFICATIONS	


INDEX OF SHEETS


PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603-3530
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # P-1403

REV	DATE	ISSUED FOR:
5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
3	11-19-20	PRELIMINARY
2	11-17-20	PRELIMINARY
1	11-11-20	PRELIMINARY
0	11-04-20	PRELIMINARY

DRAWN BY: MJC **CHECKED BY:** BSE

SEAL:

 February 25, 2021

SEAL:

 February 25, 2021

SHEET NUMBER: T-1 **REVISION:** 5
 TEP #: 62631.454479

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 368-323 FA# 12855920
 Address: 179 DEAN RD, LILLINGTON, NC Zip Code 27546
 Owner/Authorized Agent: KEN WELKER (AT&T) Phone # (336) 549 - 9987 E-Mail _____
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County HARNETT State

CONTACT: Tower Engineering Professionals

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil	Tower Engineering Professionals	Scott C. Brantley	048226	(919) 661-6351	sbrantley@tepgroup.net
Electrical	Tower Engineering Professionals	Mark S. Quakenbush	042109	(919) 661-6351	mquakenbush@tepgroup.net
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
 1st 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
 Historic Property Change of Use

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

OCCUPANCY CATEGORY (Table 1604.5): **Current:** I II III IV
Proposed: I II III IV

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 (check all that apply) I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I 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.)

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor		N/A	
2 nd Floor		N/A	
Mezzanine		N/A	
1 st Floor		64 SQ FT CONCRETE PAD	
Basement		N/A	
TOTAL		64 SQ FT CONCRETE PAD	

ALLOWABLE AREA

Primary Occupancy Classification(s): Select one Select one Select one Select one Select one Select one

Assembly 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 High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 509): N/A

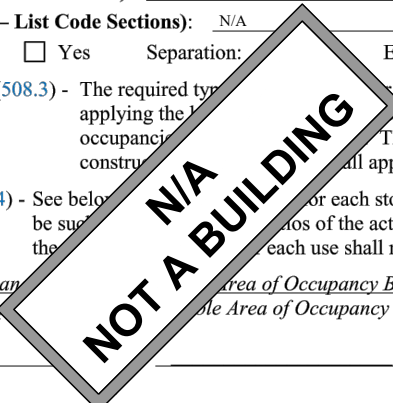
Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): N/A


Mixed Occupancy: No Yes Separation: _____ Exception: _____

Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the provisions for each of the applicable occupancy classifications. The most restrictive type of construction shall apply to the entire building.
 Separated Use (508.4) - See below. For each story, the area of the occupancy shall be supported by a separate structural frame. The ratio of the actual floor area of each use divided by the allowable area of occupancy for each use shall not exceed 1.

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



PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455

PLANS PREPARED FOR:



3001 MILLS STREET
 LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323


179 DEAN RD
 LILLINGTON, NC 27546
 (HARNETT COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603-3530
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # P-1403

SEAL:



February 25, 2021

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

APPENDIX B

SHEET NUMBER: **T-2** REVISION: **5**
 TEP#: 62631.454479

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

- ¹ Frontage area increases from Section 506.2 are:
- Perimeter which fronts a public way: $\text{feet minimum width} = \text{_____} (F)$
 - Total Building Perimeter
 - Ratio (F/P) = $\text{_____} (F/P)$
 - $W = \text{Minimum width of public way}$
 - Percent of frontage increase: $\text{_____} \times W/30 = \text{_____} (\%)$
- ² Unlimited area applicable under conditions of Section 507.
- ³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- ⁴ 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 412.5.1.
- ⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

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


¹ Provide code reference if the "Shown on Plans" quantity is not based on code.

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							

* Indicate section number permitting reduction

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



3001 MILLS STREET
LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323


179 DEAN RD
LILLINGTON, NC 27546
(HARNETT COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net
N.C. LICENSE # P-1403

SEAL:



February 25, 2021

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: C5N

SHEET TITLE:

APPENDIX B

SHEET NUMBER: **T-3** REVISION: **5**

TEP#: 62631.454479

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 PLAN REQUIREMENTS

Emergency Lighting: Yes No Partial

Exit Signs: Yes No

Fire Alarm: Yes No

Smoke Detection Systems: Yes No Partial

Panic Hardware: Yes No

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 on the site plan)
 - Exterior wall opening area with respect to distance to assumed property lines (705.8)
 - Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 - Occupant loads for each area
 - Exit access travel distances (1017)
 - Common path of travel distances (Tables 1006)
 - Dead end lengths (1020.4)
 - Clear exit widths for each exit door
 - Maximum calculated occupant load that can be accommodated based on egress width (1005.3)
 - Actual occupant load for each exit
 - A separate schematic plan indicating floor/ceiling and/or roof structure is provided for purposes of occupancy separation (1010)
 - Location of doors with panic hardware (1010)
 - Location of doors with delayed egress 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

ACCESSIBLE DWELLING UNITS (SECTION 1107)						
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

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

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

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

Special approval: (Local Jurisdiction, Department of Social Services, SC, DPI, DHHS, etc., describe below)

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



3001 MILLS STREET
LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323


179 DEAN RD
LILLINGTON, NC 27546
(HARNETT COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net
N.C. LICENSE # P-1403

SEAL:



February 25, 2021

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

APPENDIX B

SHEET NUMBER: **T-4** REVISION: **5**

TEP#: 62631.454479

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 (Provide code on _____) (remainder of this section is not applicable)

Exempt Building: No Yes (Provide code on _____)

Climate Zone: 3A 4A _____

Method of Compliance: Energy _____ Prescriptive
 ASHRAE _____ Prescriptive
 (reference here) _____

THERMAL ENVELOPE (Prescriptive)

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 skylights in each assembly: _____

Exterior Walls (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing)
 U-Value of assembly: _____
 Solar heat gain coefficient: _____
 projection factor: _____
 Door R-Values: _____

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
 STRUCTURAL DESIGN**

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) _____
 Seismic (I_e) _____

Live Loads: Roof _____ psf
 Mezzanine _____ psf
 Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Basic Wind Speed _____ (ASCE-7)
 Exposure Category _____

SEISMIC DESIGN CATEGORY:

Provide the following Seismic Design Risk Category (Table 1601-C)
 I II III IV
 Spectral Response Accel. S_d _____ %g S_i _____ %g

Site Classification (ASCE 7.9.6): B C D E F
 Data Source: Test Presumptive Historical Data

Basic structural system: Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic

Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ psf
 Presumptive Bearing capacity _____ psf
 Pile size, type, and capacity _____

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455

PLANS PREPARED FOR:

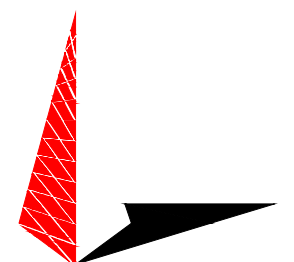


PROJECT INFORMATION:

AT&T SITE #: 368-323

179 DEAN RD
 LILLINGTON, NC 27546
 (HARNETT COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603-3530
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # P-1403

SEAL:



February 25, 2021

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

APPENDIX B

SHEET NUMBER: T-5	REVISION: 5 TEP#: 62631.454479
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**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. If oversized, state reason.: _____

Chiller

Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

**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 _____
total wattage per fixture _____
total interior wattage _____ allowed (whole building or space by space)
total exterior wattage _____ allowed

Additional Efficiency Package Options

(When using the 2018 NCECC; not required for ASHRAE 90.1)

- C406.2 More Efficient HVAC Equipment Performance
- 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 Use in Service Water Heating

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



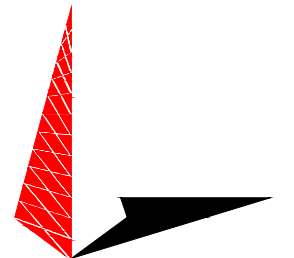
3001 MILLS STREET
LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323

179 DEAN RD
LILLINGTON, NC 27546
(HARNETT COUNTY)

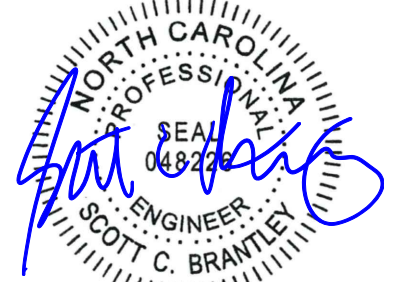
PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net
N.C. LICENSE # P-1403

SEAL:



February 25, 2021

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: C5N

SHEET TITLE:

APPENDIX B


SHEET NUMBER: T-6	REVISION: 5
TEP#: 62631.454479	

1. ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED AT&T OR IT'S DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF NORTH CAROLINA.
3. THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H. THIS CONFORMS TO THE REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE, 2018 EDITION.
4. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, 2018 EDITION.
5. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
6. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
8. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
9. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK. RENTAL CHARGES, SAFETY, PROTECTION AND MAINTENANCE OF RENTED EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
11. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE AT&T PROJECT MANAGER.
12. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
13. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
14. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
15. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.
16. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
17. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

18. ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.
19. TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
20. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL CARRY LIABILITY INSURANCE IN THE AMOUNTS AND FORM IN ACCORDANCE WITH AT&T SPECIFICATIONS. CERTIFICATES DEMONSTRATING PROOF OF COVERAGE SHALL BE PROVIDED TO AT&T PRIOR TO THE START OF THE WORK ON THE PROJECT.
21. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
22. THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH ONE 55 GALLON BARREL, AND TRASH BAGS, AND SHALL REMOVE TRASH, DEBRIS, ETC., ON A DAILY BASIS.
23. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE AT THE SITE. ANY VARIATION WHICH REQUIRES PHYSICAL CHANGE SHALL BE BROUGHT TO THE ATTENTION OF THE AT&T PROJECT ENGINEER FOR FACILITIES/CONSTRUCTION.
24. THE CONTRACTOR SHALL GUARANTEE THE WORK PERFORMED ON THE PROJECT BY THE CONTRACTOR AND ANY OR ALL OF THE SUBCONTRACTORS WHO PERFORMED WORK FOR THE CONTRACTOR ON THIS PROJECT. THE GUARANTEE SHALL BE FOR A FULL YEAR FOLLOWING ISSUANCE OF THE FINAL PAYMENT OF RETAINAGE. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.

GENERAL NOTES

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



3001 MILLS STREET
LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323

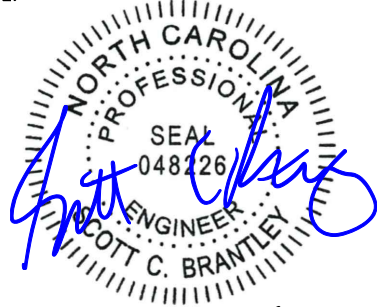
179 DEAN RD
LILLINGTON, NC 27546
(HARNETT COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net
N.C. LICENSE # P-1403

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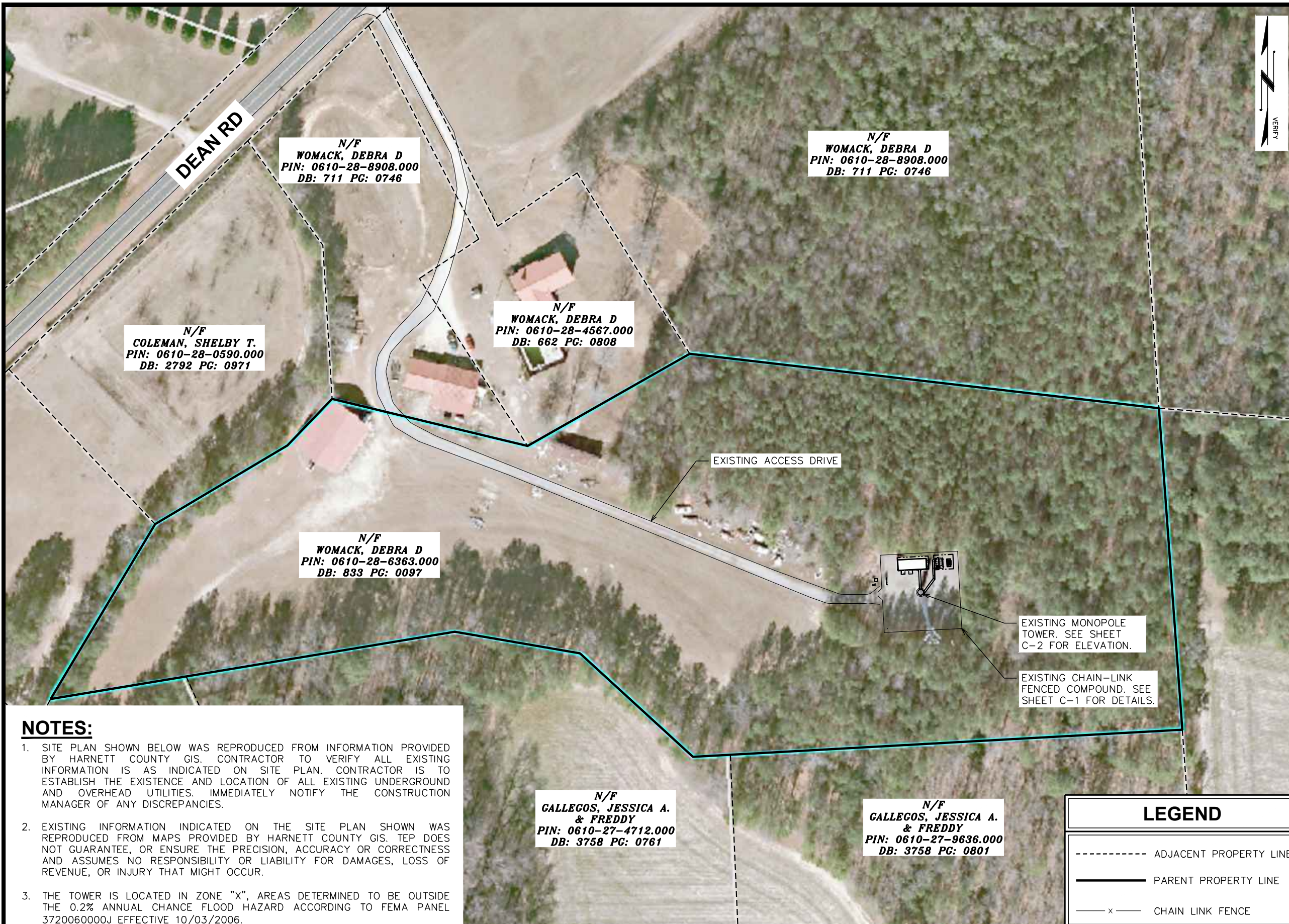
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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: **N-1** REVISION: **5**

TEP#: 62631.454479



PLANS PREPARED FOR:

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 GREENSBORO, NC 27455


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 LAFAYETTE, LA 70507

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DRAWN BY: BSE CHECKED BY: C5N

SHEET TITLE:
SITE PLAN

SHEET NUMBER: **SP-1** REVISION: **5**
 TEP#: 62631.454479

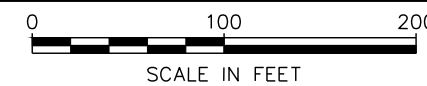
NOTES:

1. SITE PLAN SHOWN BELOW WAS REPRODUCED FROM INFORMATION PROVIDED BY HARNETT COUNTY GIS. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
2. EXISTING INFORMATION INDICATED ON THE SITE PLAN SHOWN WAS REPRODUCED FROM MAPS PROVIDED BY HARNETT COUNTY GIS. TEP DOES NOT GUARANTEE, OR ENSURE THE PRECISION, ACCURACY OR CORRECTNESS AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DAMAGES, LOSS OF REVENUE, OR INJURY THAT MIGHT OCCUR.
3. THE TOWER IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD HAZARD ACCORDING TO FEMA PANEL 3720060000J EFFECTIVE 10/03/2006.

SITE PLAN
 SCALE: 1" = 100'

LEGEND

-----	ADJACENT PROPERTY LINE
————	PARENT PROPERTY LINE
— x —	CHAIN LINK FENCE



EXISTING 80'-3"x80'-3"
CHAIN-LINK FENCED
COMPOUND

EXISTING EQUIPMENT
SHELTER BY OTHERS

EXISTING UTILITY RACK

PROPOSED 200A AT&T METER
AND 200A DISCONNECT TO BE
INSTALLED IN EXISTING
MULTI-TENANT METER GANG

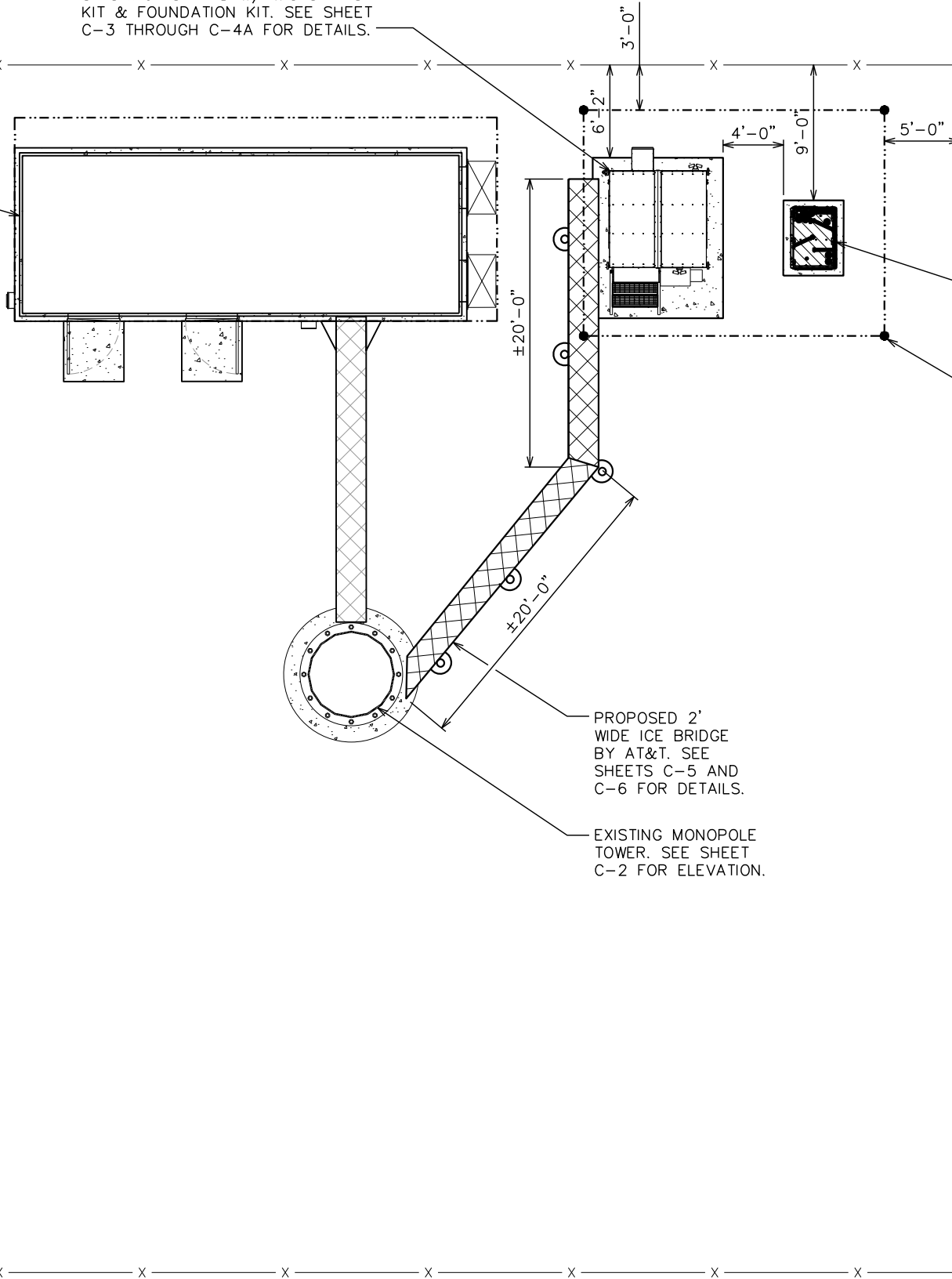
EXISTING PAD-MOUNTED
TRANSFORMER


EXISTING TELCO
PEDESTAL (TYP)

EXISTING 12'-4" WIDE
FENCED ACCESS GATE

EXISTING GRAVEL
WITHIN COMPOUND

PROPOSED AT&T VERTIV XTE-802
WIC EQUIPMENT SHELTER ON
8'-8"x10'-8" PAD w/ WIC STAIRS
KIT & FOUNDATION KIT. SEE SHEET
C-3 THROUGH C-4A FOR DETAILS.



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2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455


PLANS PREPARED FOR:

3001 MILLS STREET
LAFAYETTE, LA 70507

PROJECT INFORMATION:
AT&T SITE #: 368-323
179 DEAN RD
LILLINGTON, NC 27546
(HARNETT COUNTY)

PLANS PREPARED BY:

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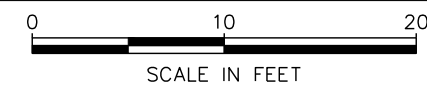
DRAWN BY: BSE CHECKED BY: C5N

SHEET TITLE:
**PROPOSED
COMPOUND DETAIL**

SHEET NUMBER: **C-1** REVISION: **5**
TEP#: 62631.454479

PROPOSED COMPOUND DETAIL

SCALE: 1" = 10'



NOTES:

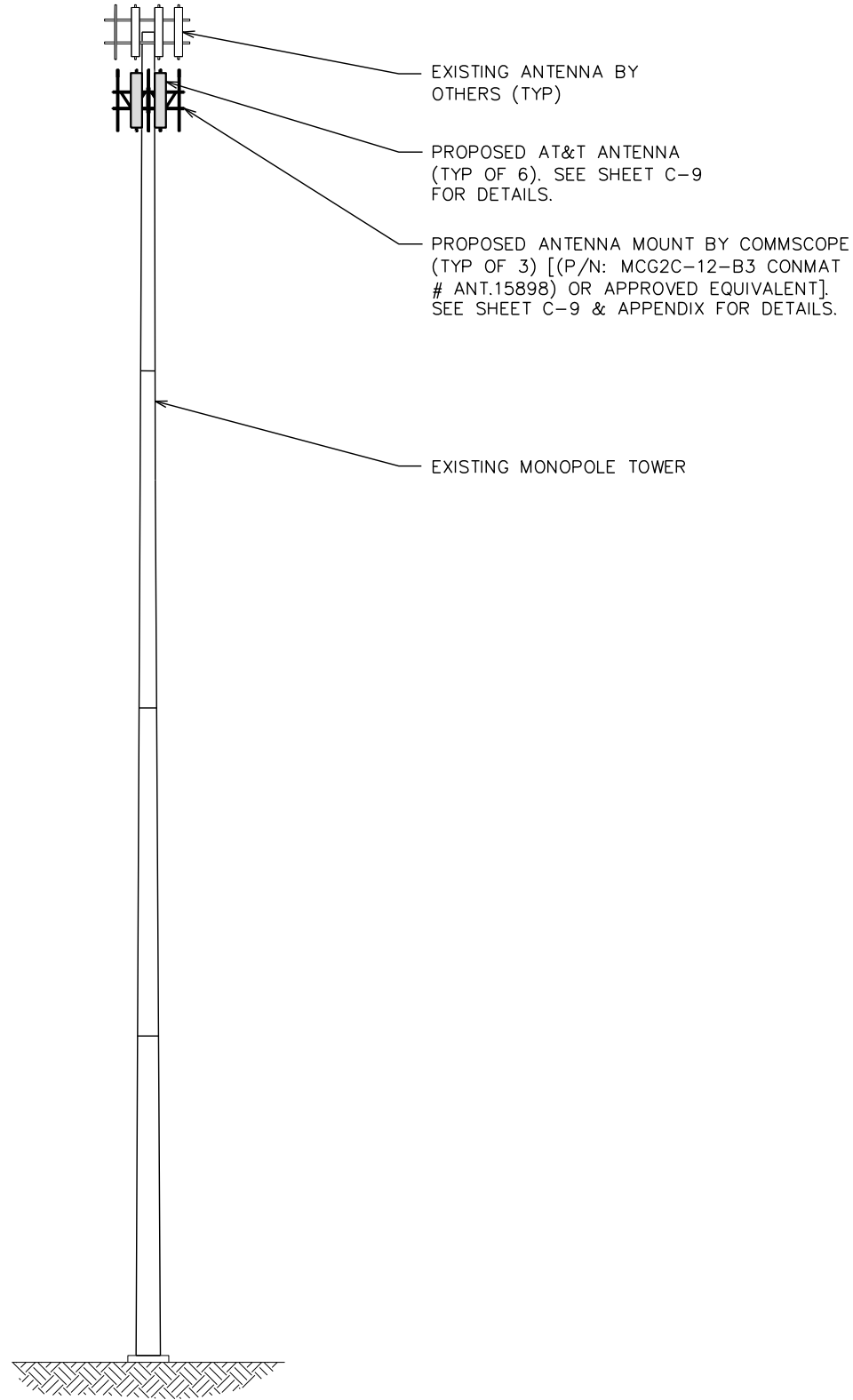
1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF STRUCTURAL ANALYSIS.
2. TOWER DRAWING IS ONLY A GRAPHIC REPRESENTATION OF THE STRUCTURE. THE ACTUAL TOWER IN THE FIELD MAY VARY.
3. PER ANTENNA MOUNT ANALYSIS REPORT COMPLETED BY SMW ENGINEERING GROUP, INC. DATED JANUARY 18, 2021, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

199'-0"±
T/APPURTENANCE

195'-0"±
T/TOWER

185'-0"±
CL/AT&T ANTENNAS

0'-0" (REFERENCE)
T/CONCRETE



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2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



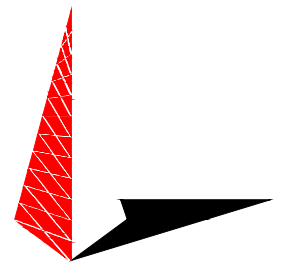
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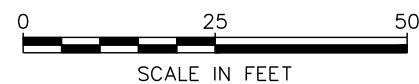
SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER: C-2	REVISION: 5
TEP#: 62631.454479	

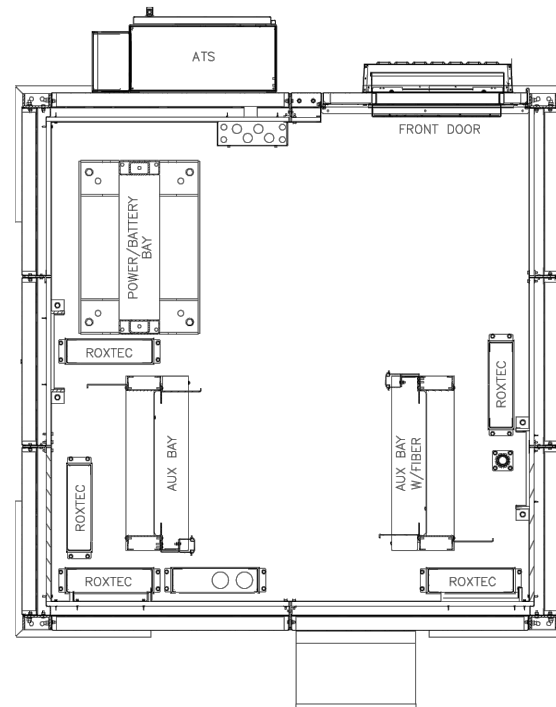
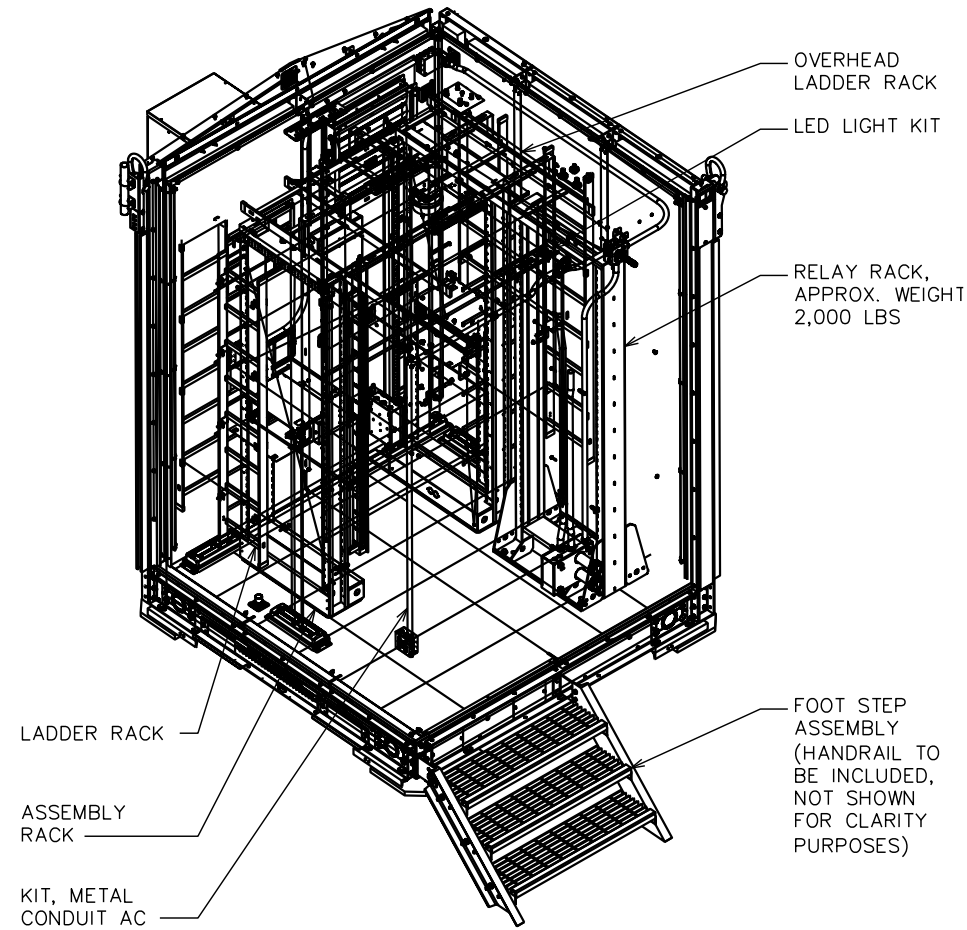
TOWER ELEVATION

SCALE: 1" = 25'



NOTE:

REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR MORE DETAILS.



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2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



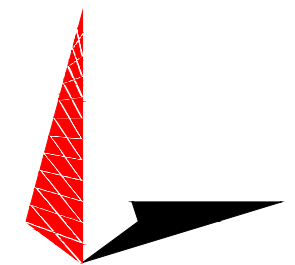
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LAFAYETTE, LA 70507

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SHEET TITLE:
WIC DETAILS

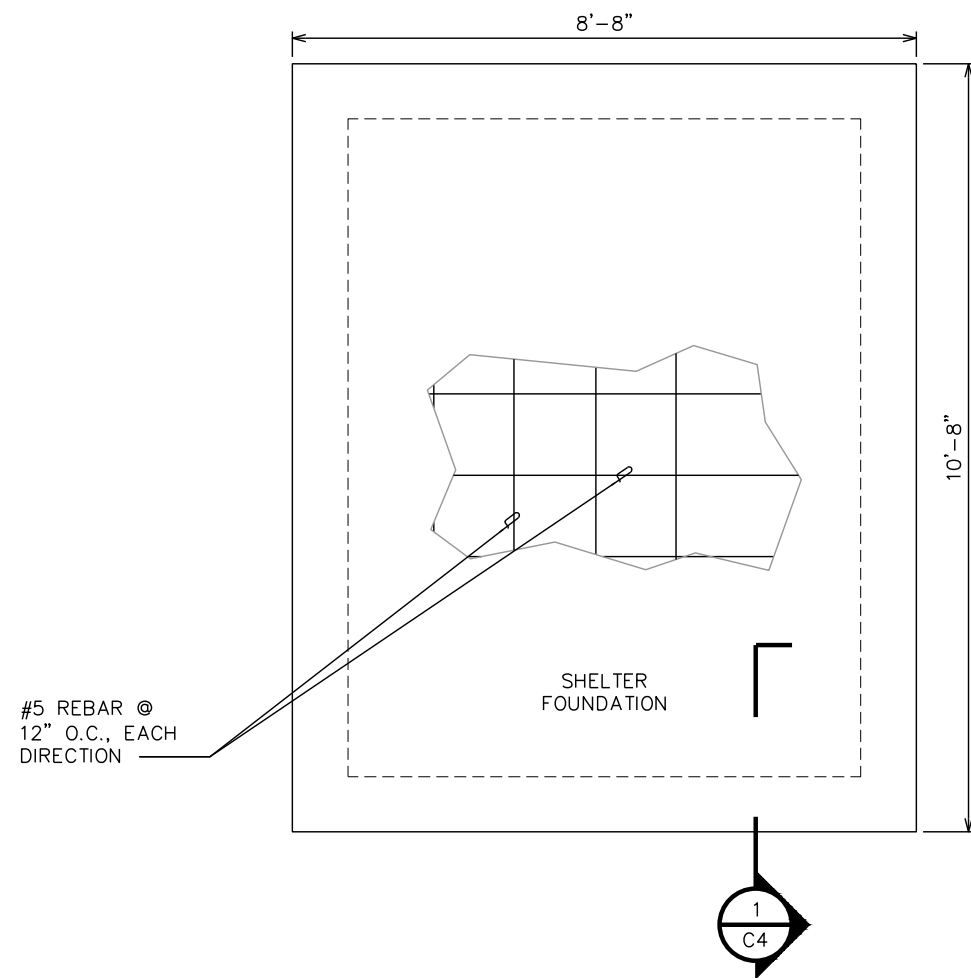
SHEET NUMBER: C-3	REVISION: 5
TEP#: 62631.454479	

VERTIV XTE-802 WIC DETAILS

SCALE: N.T.S.

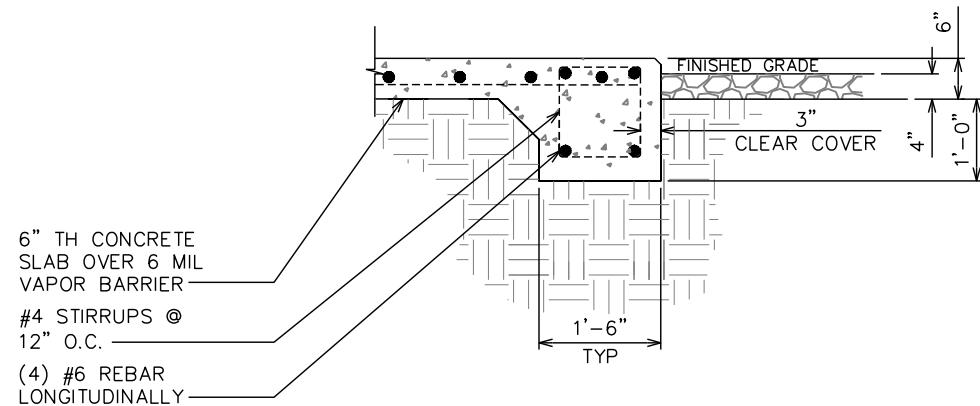
FOUNDATION NOTES:

1. FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY.
2. CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.
3. REINFORCING STEEL $F_y = 60,000$ PSI.
4. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.
5. SURFACE OF FINISHED SLAB SHALL BE LEVEL AND FLAT WITHIN $\frac{1}{4}$ ".
6. CONTRACTOR SHALL VERIFY WITH MANUFACTURER ACTUAL DIMENSIONS OF EQUIPMENT PRIOR TO LAYING OUT FOUNDATION.
7. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318-14.



FOUNDATION PLAN DETAIL

SCALE: N.T.S.



SHELTER FOUNDATION SECTION CUT DETAIL

SCALE: N.T.S.

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
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PLANS PREPARED FOR:



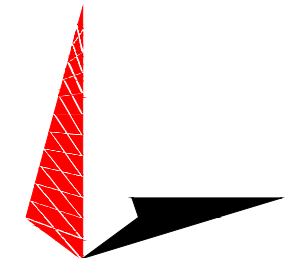
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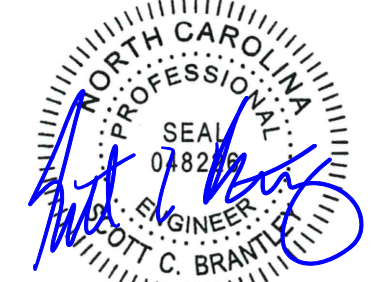
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SHEET TITLE:

**FOUNDATION
DETAILS**

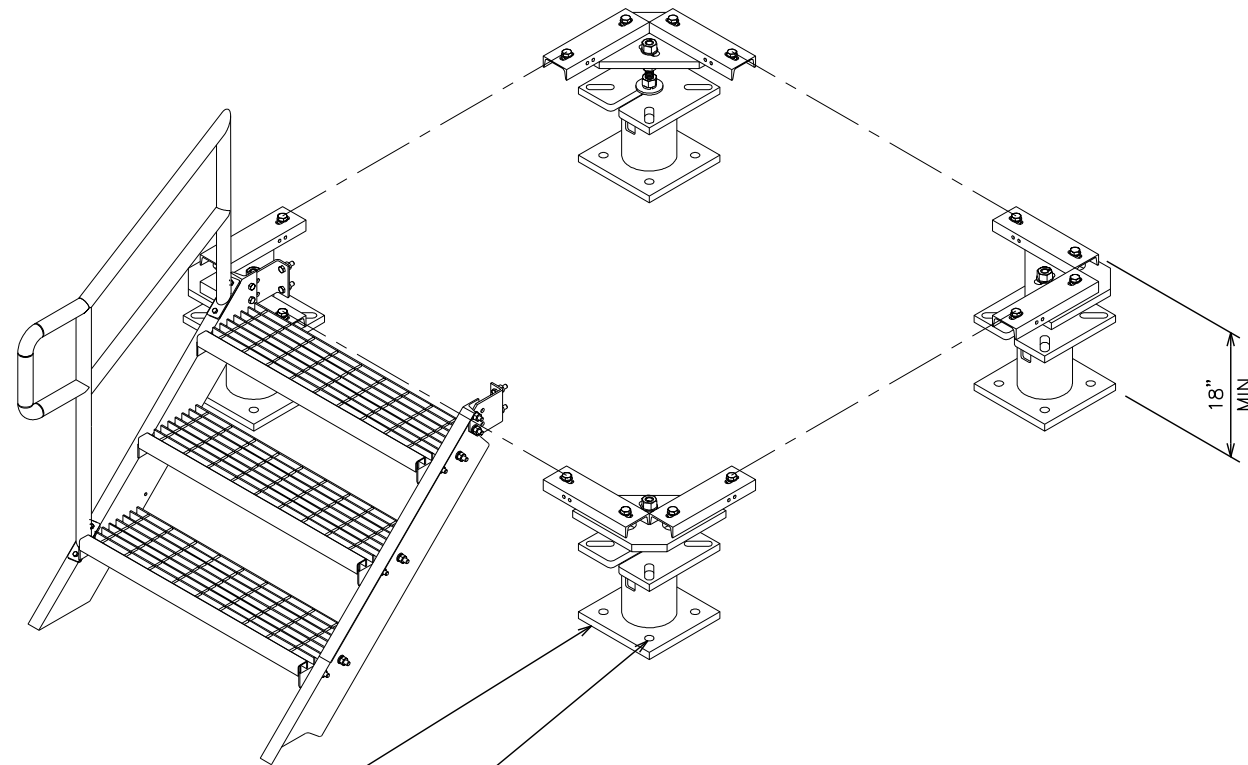
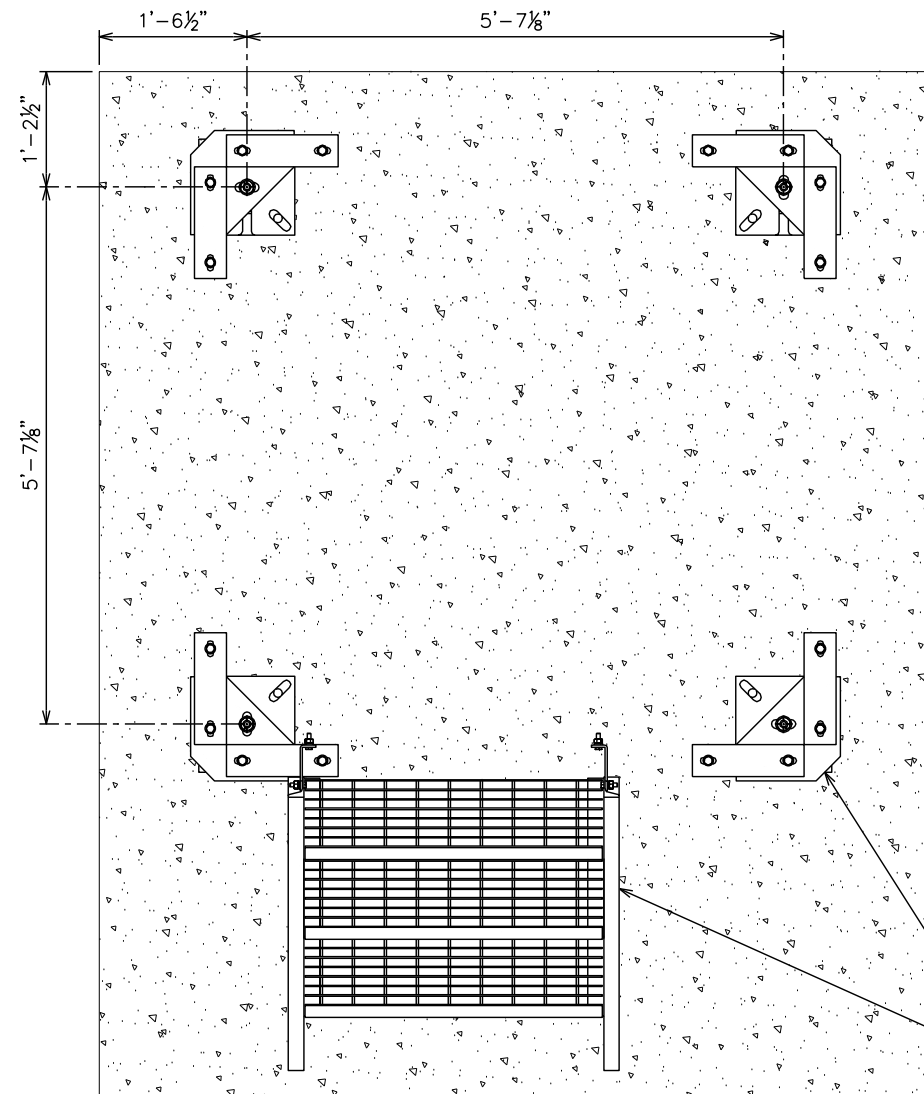
SHEET NUMBER:

C-4

REVISION:

5

TEP#: 62631.454479



SUPPORT LEG (TYP)
 STAIRS W/ HANDRAIL
 5/8" Ø HILTI KWIK BOLT
 TZ-SS304 ANCHOR
 BOLT W/ 4" EMBEDMENT
 (TYP OF ALL ANCHORS)

NOTES:

1. CONTRACTOR TO REFER TO MANUFACTURER'S SPECIFICATIONS FOR FURTHER DETAILS.
2. INSTALL FOUNDATION KIT PER MANUFACTURER'S SPECIFICATIONS.
3. CONTRACTOR TO ENSURE MINIMUM 18" CLEARANCE FROM TOP OF FOUNDATION TO BASE OF WIC SHELTER.
4. DETAILS SHOWN ON THIS PAGE WERE PROVIDED BY OTHERS AND ARE NOT DESIGNED NOR CARRIED UNDER SIGNATURE AND SEAL OF TOWER ENGINEERING PROFESSIONALS' ENGINEERING SERVICES AND/OR ITS ENGINEERS.

WIC CONCRETE MOUNT FOUNDATION KIT DETAILS

SCALE: N.T.S.

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455

PLANS PREPARED FOR:



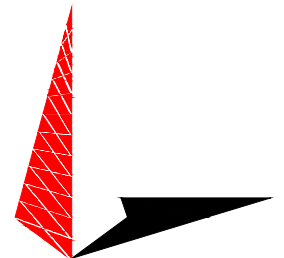
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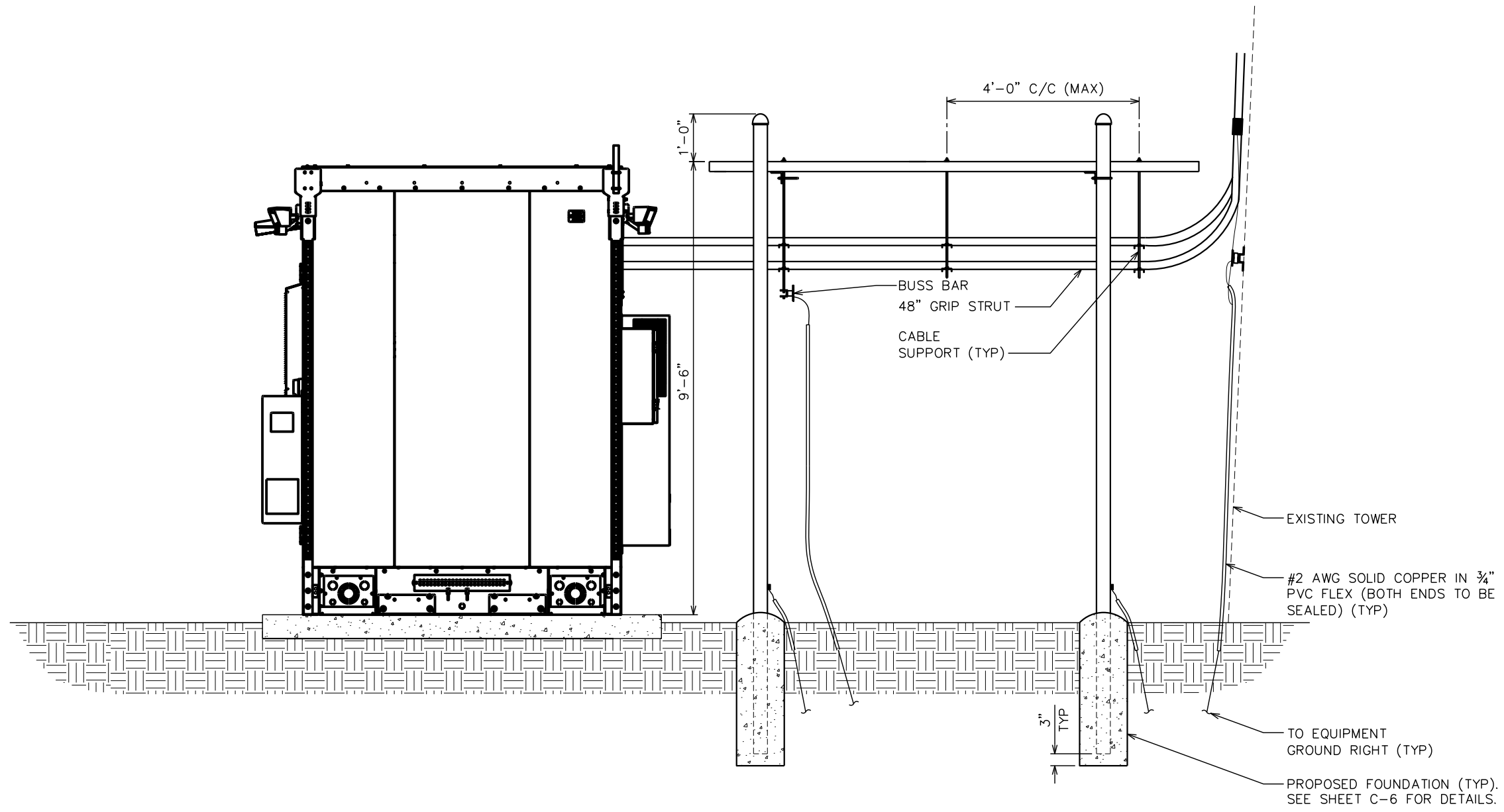
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SHEET TITLE:

**FOUNDATION
 DETAILS**

SHEET NUMBER: C-4A	REVISION: 5
TEP#: 62631.454479	



PLANS PREPARED FOR:

 2002 PISGAH CHURCH ROAD, SUITE 300
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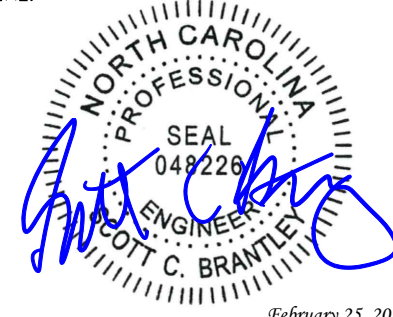
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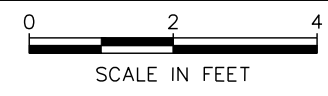
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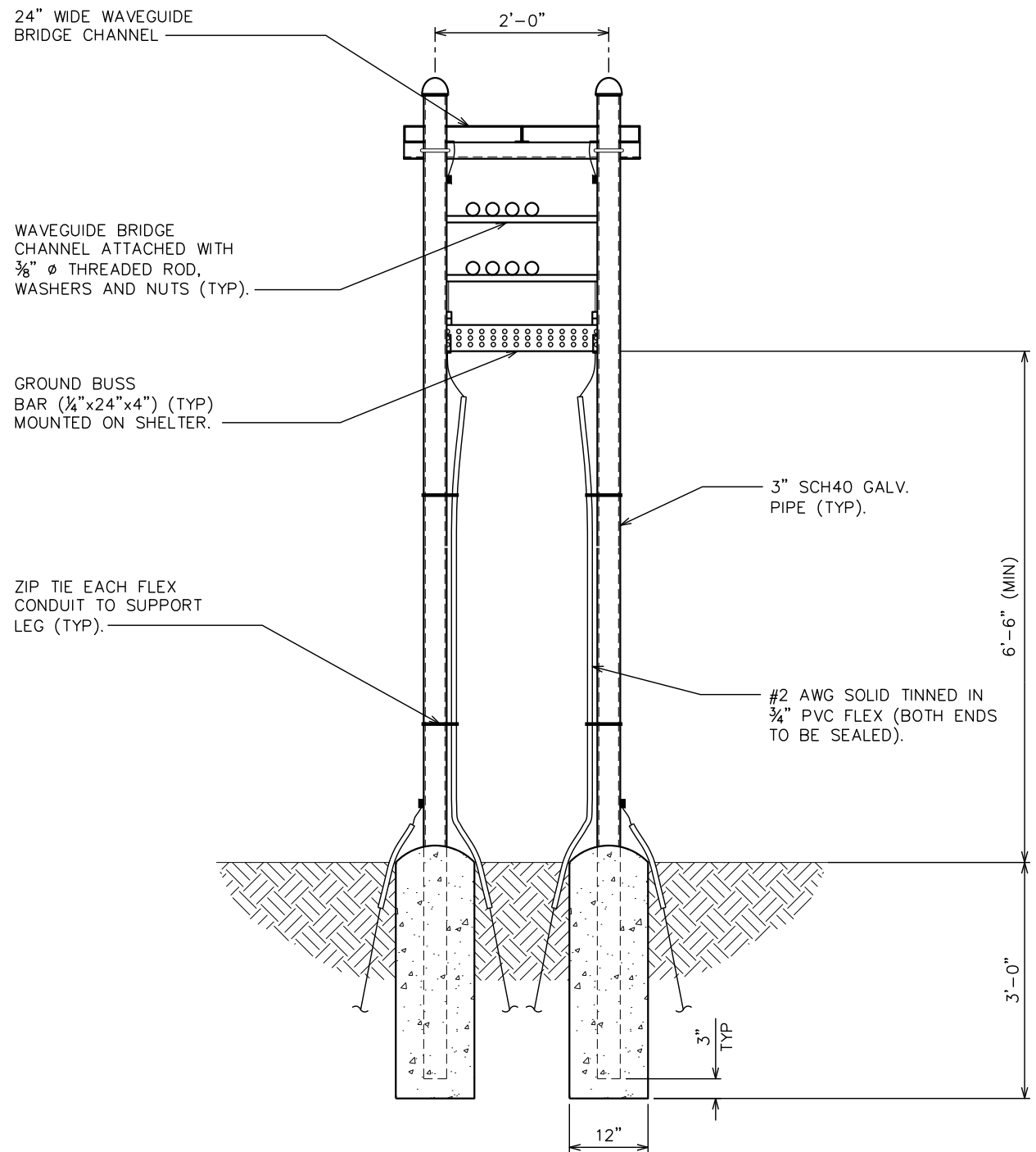
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SHEET TITLE:
ICE BRIDGE DETAILS I

SHEET NUMBER: **C-5** REVISION: **5**
 TEP#: 62631.454479

ICE BRIDGE DETAILS - SIDE VIEW
 SCALE: 3/8" = 1'-0"





24" WIDE WAVEGUIDE BRIDGE CHANNEL

WAVEGUIDE BRIDGE CHANNEL ATTACHED WITH 3/8" Ø THREADED ROD, WASHERS AND NUTS (TYP).

GROUND BUSS BAR (1/4" x 24" x 4") (TYP) MOUNTED ON SHELTER.

ZIP TIE EACH FLEX CONDUIT TO SUPPORT LEG (TYP).

3" SCH40 GALV. PIPE (TYP).

#2 AWG SOLID TINNED IN 3/4" PVC FLEX (BOTH ENDS TO BE SEALED).

6'-6" (MIN)

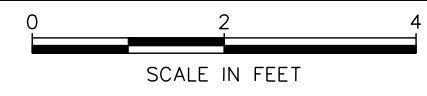
3'-0"


3" TYP

12"

ICE BRIDGE DETAILS - FRONT VIEW

SCALE: 1/2" = 1'-0"



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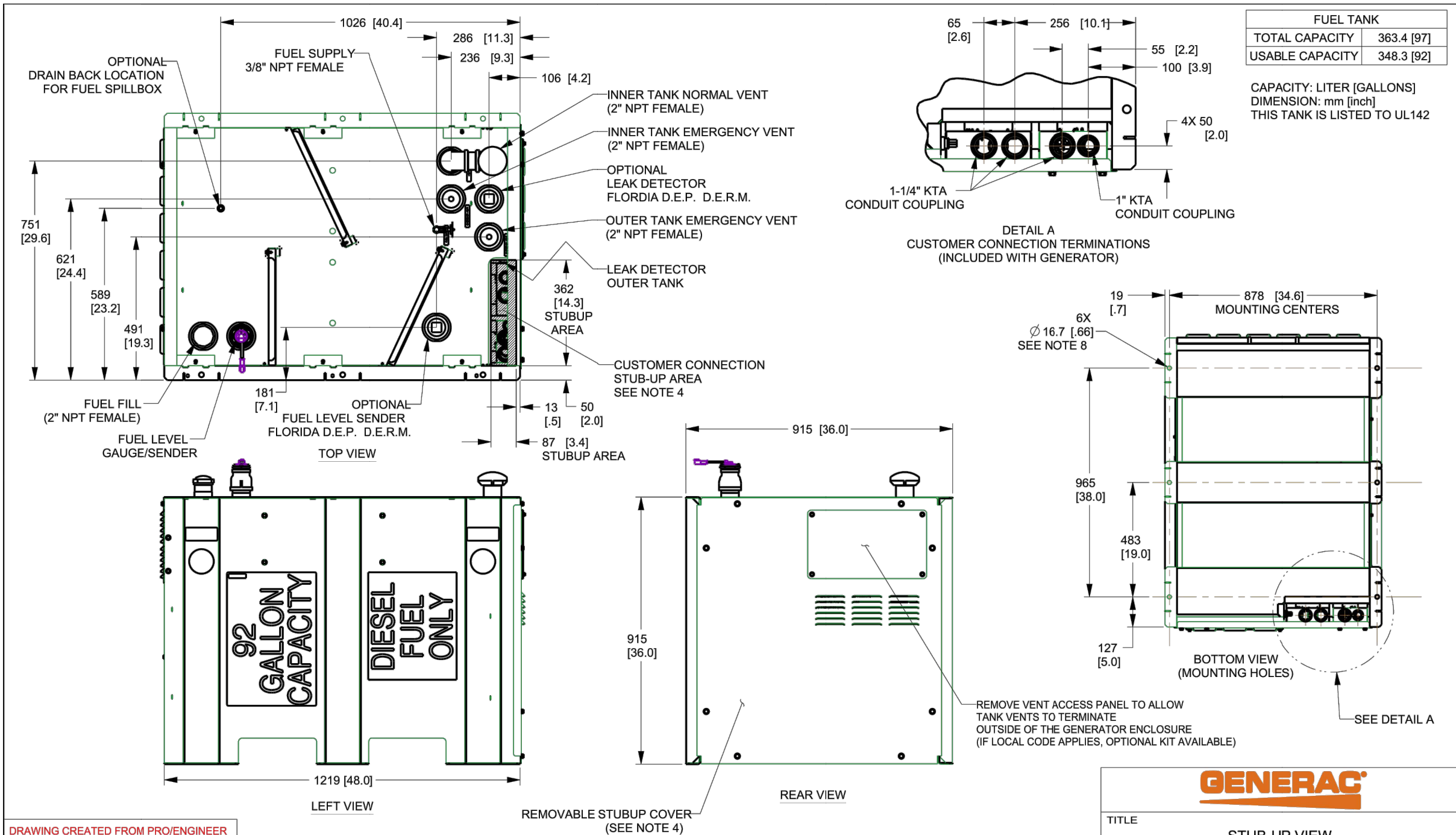
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REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: C5N

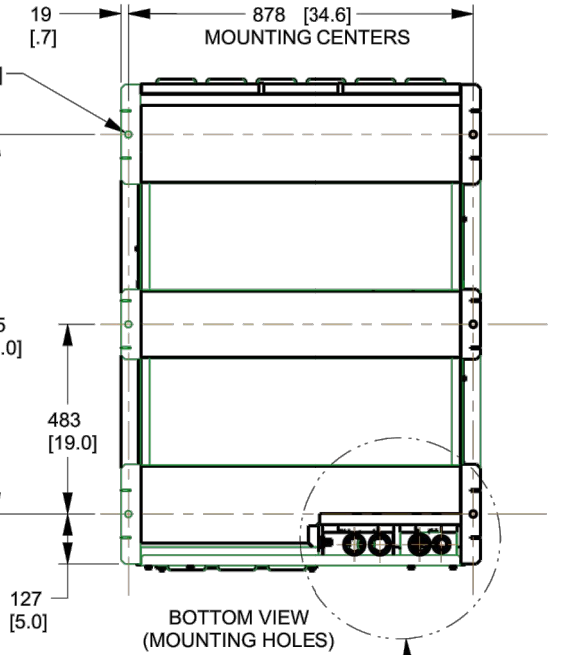
SHEET TITLE:
ICE BRIDGE DETAILS II

SHEET NUMBER: **C-6** REVISION: **5**
 TEP#: 62631.454479



FUEL TANK	
TOTAL CAPACITY	363.4 [97]
USABLE CAPACITY	348.3 [92]

CAPACITY: LITER [GALLONS]
 DIMENSION: mm [inch]
 THIS TANK IS LISTED TO UL142



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

INSTALLATION DRAWING

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

GENERAC			
TITLE			
STUB-UP VIEW INSTALL, D2.5L 20 KW AC, 15 KW DC TELECOM			
ISSUE DATE: 1/15/16			
SIZE	CAGE NO	DWG NO	REV
B	N/A	10000000489	1
SCALE	NTS	WT-KG	SHEET 2 of 2

PLANS PREPARED FOR:

 2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455


PLANS PREPARED FOR:

 3001 MILLS STREET
 LAFAYETTE, LA 70507

PROJECT INFORMATION:
AT&T SITE #: 368-323
 179 DEAN RD
 LILLINGTON, NC 27546
 (HARNETT COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603-3530
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # P-1403

SEAL:

 February 25, 2021

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: C5N

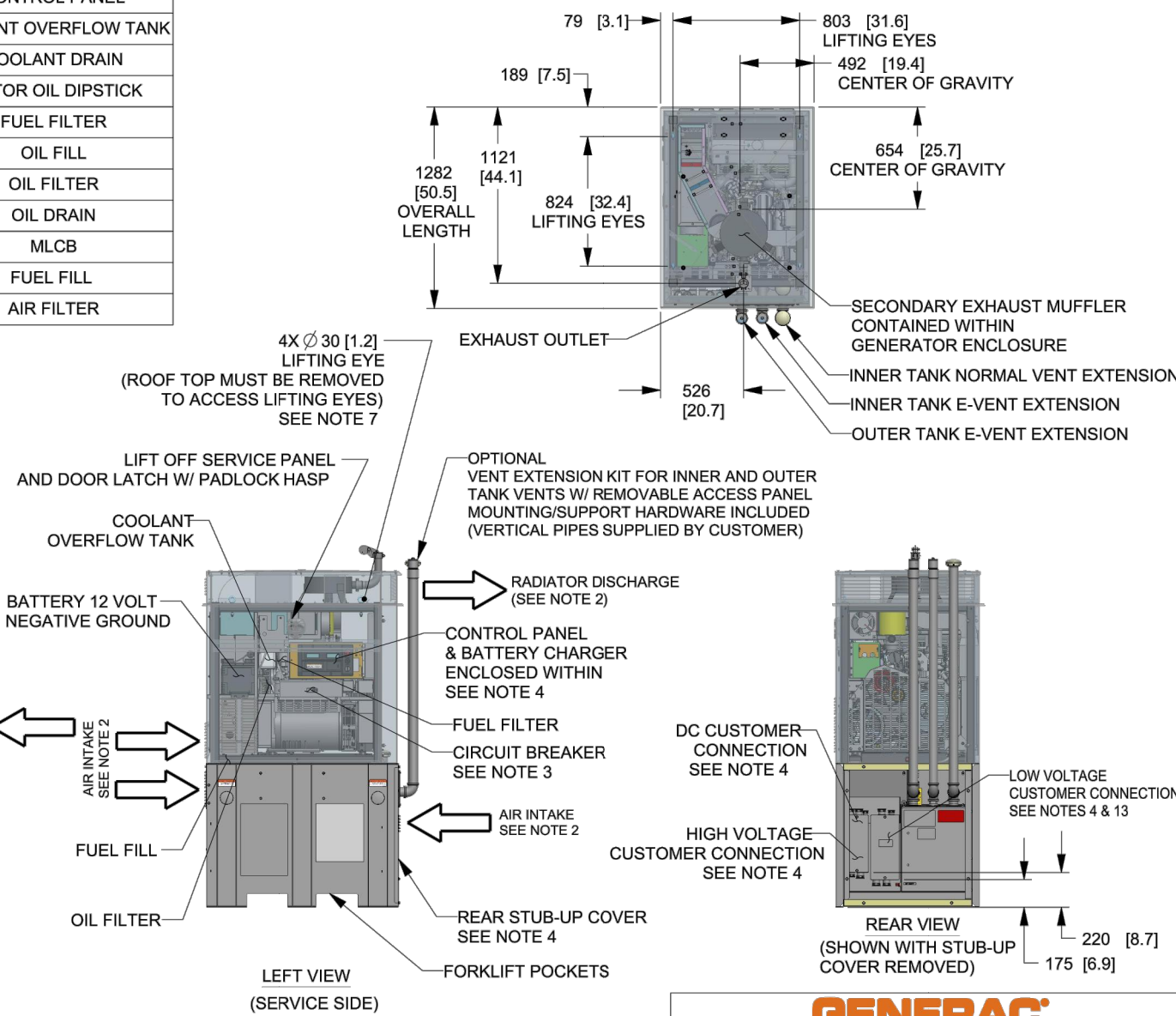
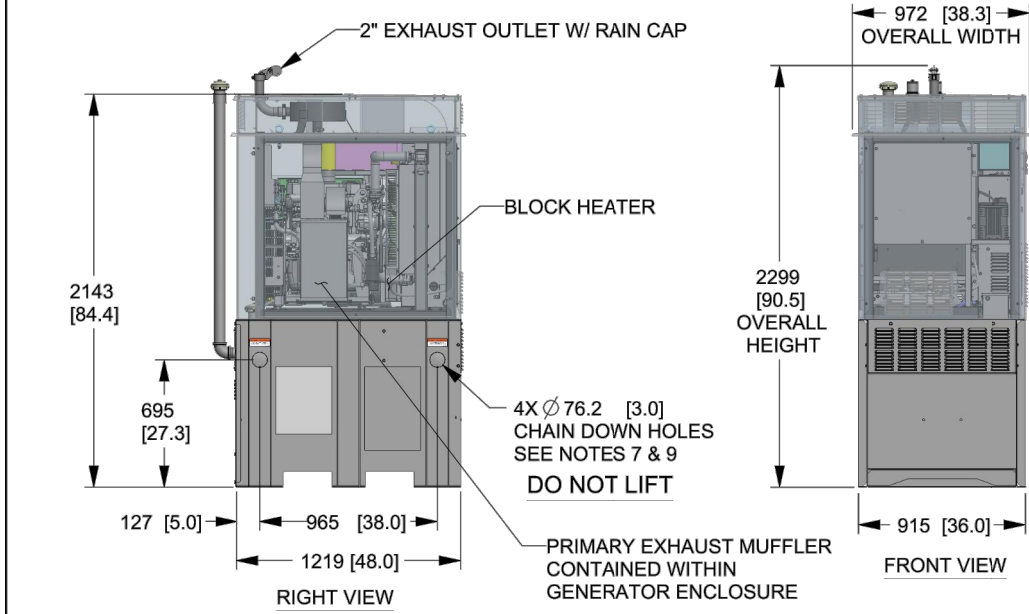
SHEET TITLE:
GENERATOR SPECIFICATIONS I

SHEET NUMBER: **C-7A** REVISION: **5**
 TEP#: 62631.454479

- NOTES:
1. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES
 2. 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.
 3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL
 - ACCESSIBLE WITH REMOVAL OF SERVICE PANEL
 4. 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.
 - LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES AND ACCESSORY RELAY CONNECTION (QTY 4)
 - DC VOLTAGE CONNECTION (DC UNIT ONLY)
 5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
 6. EXHAUST SYSTEM MAXIMUM BACK PRESSURE: 24.0 INCHES OF H₂O
 7. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 8. MOUNTING BOLTS OR STUDS TO MOUNTING PAD SHALL BE 5/8-11 GRADE 5. (USE STANDARD SAE TORQUE SPECS)
 9. CHAIN DOWN HOLES MUST BE PLUGGED AFTER INSTALLATION. PLUGS ARE PROVIDED AND ARE LOCATED IN THE OWNERS MANUAL BAG.
 10. STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN REAR TANK STUB-UP AREA.
 11. 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.
 12. TRANSFORMER SWITCH/COMMUNICATION CONDUITS - COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT WITH AC WIRING.
 13. CONTROL WIRES TO BE SHIELDED AND TWISTED PAIR (40M MAX LENGTH).
 14. UNIT MUST BE LOCATED NOT MORE THAN 20FT FROM ANY OTHER EQUIPMENT (DC ONLY)

ITEMS ACCESSIBLE SERVICE SIDE OF UNIT
BATTERY
CONTROL PANEL
COOLANT OVERFLOW TANK
COOLANT DRAIN
MOTOR OIL DIPSTICK
FUEL FILTER
OIL FILL
OIL FILTER
OIL DRAIN
MLCB
FUEL FILL
AIR FILTER

WEIGHT DATA WITH EMPTY Basetank (SEE NOTE 5)		WEIGHT DATA WITH FULL Basetank (SEE NOTE 5)	
GENERATOR AS SHOWN	1088.6 KG [2400 LBS]	GENERATOR AS SHOWN	1395 KG [3075 LBS]



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

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ELECTRONICALLY APPROVED INSIDE WINDCHILL

GENERAC

TITLE: INSTALL, D2.5L 20 KW AC, 15 KW DC TELECOM

ISSUE DATE: 1/15/16

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000000489	1

SCALE: 0.032 WT-KG SHEET 1 of 2

PLANS PREPARED FOR:

2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:

3001 MILLS STREET
LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323

179 DEAN RD
LILLINGTON, NC 27546
(HARNETT COUNTY)

PLANS PREPARED BY:

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OFFICE: (919) 661-6351
www.tepgroup.net
N.C. LICENSE # P-1403

SEAL:

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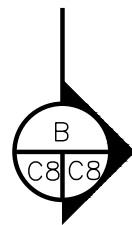
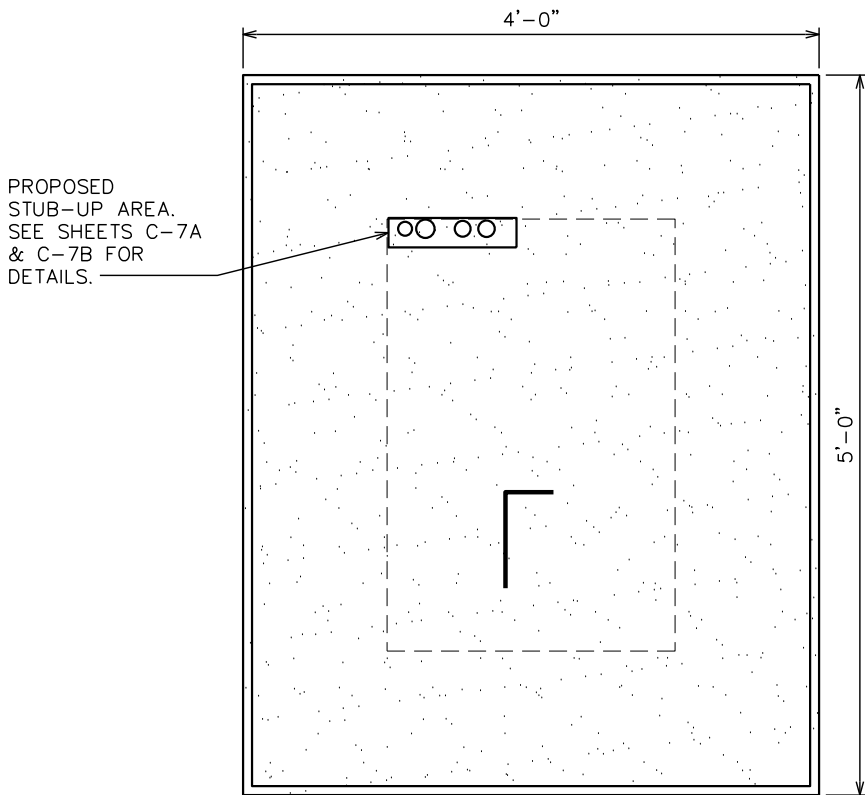
DRAWN BY: BSE CHECKED BY: C5N

SHEET TITLE:

GENERATOR SPECIFICATIONS II

SHEET NUMBER: **C-7B** REVISION: **5**

TEP#: 62631.454479



GENERATOR FOUNDATION

SCALE: 3/4" = 1'-0"



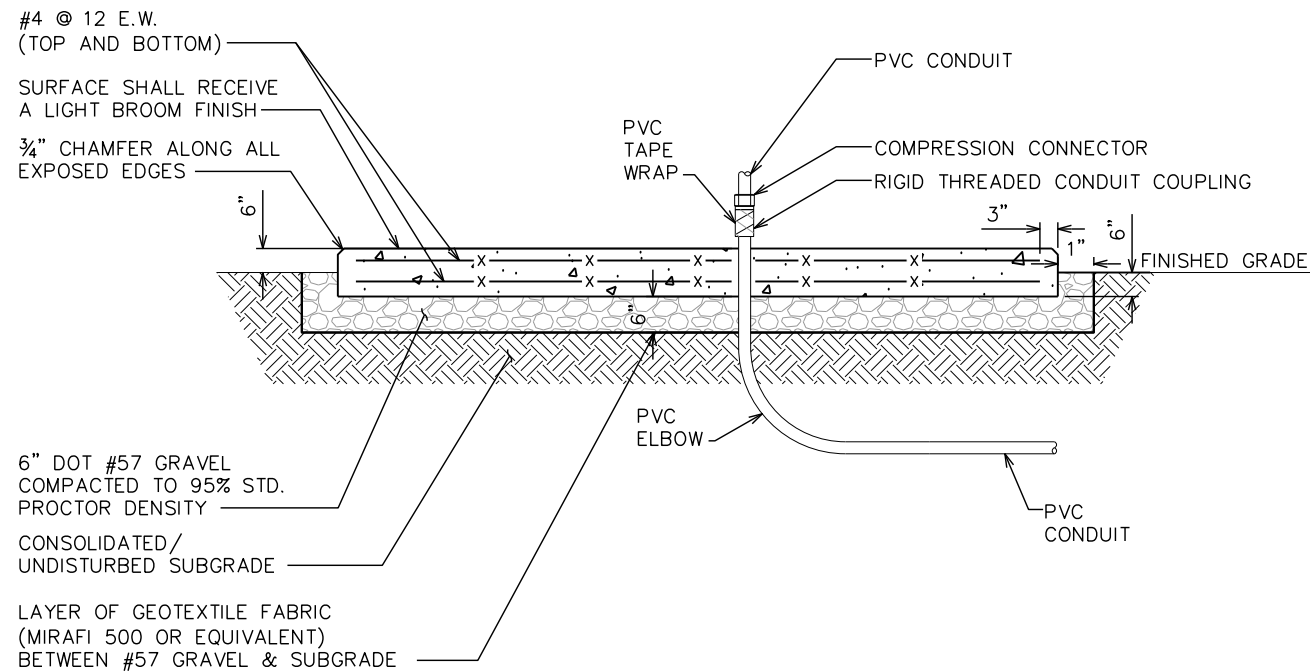
NOTE:

THESE PLACARDS ARE REQUIRED TO BE INSTALLED ON PROPOSED GENERATOR FREE OF ANY OBSTRUCTION AS TO BE CLEARLY VISIBLE WITHIN COMPOUND



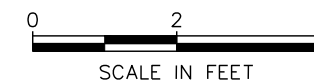
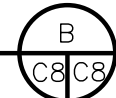
PROPOSED GENERATOR SIGNAGE

SCALE: N.T.S.



SECTION

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



PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455

PLANS PREPARED FOR:



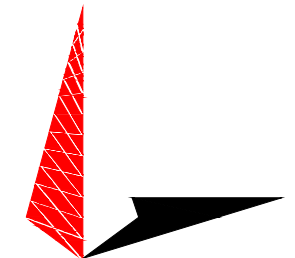
3001 MILLS STREET
 LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323

179 DEAN RD
 LILLINGTON, NC 27546
 (HARNETT COUNTY)

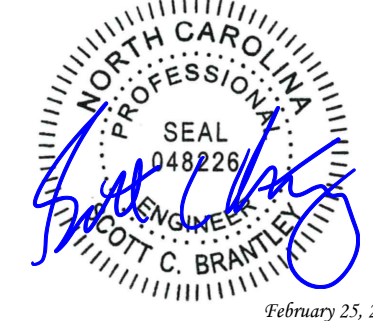
PLANS PREPARED BY:



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SEAL:



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

GENERATOR FOUNDATION & SIGNAGE DETAILS

SHEET NUMBER:

C-8

REVISION:

5

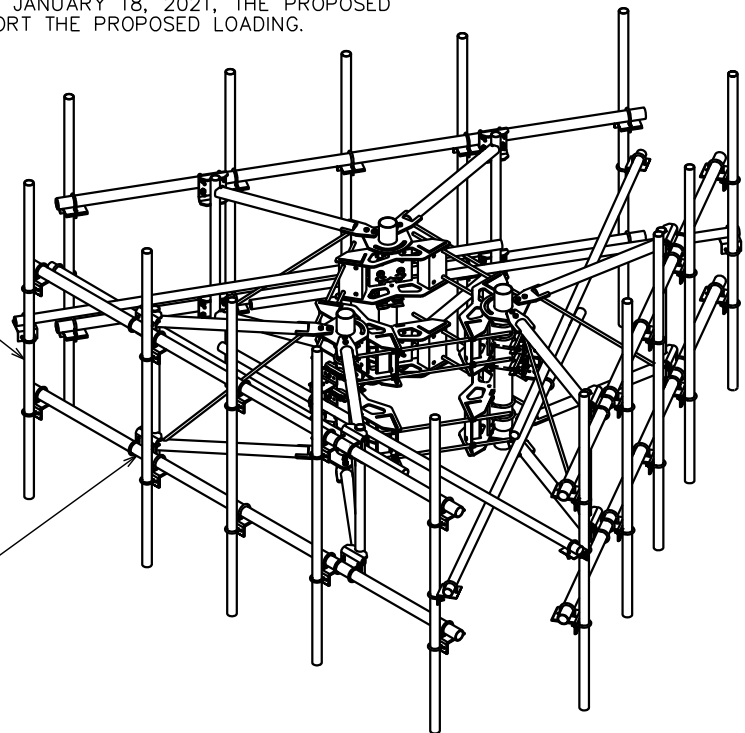
TEP#: 62631.454479

NOTES:

1. AN APPROVED EQUIVALENT ANTENNA MOUNT IS ACCEPTABLE WITH APPROVAL FROM THE AT&T PROJECT MANAGER.
2. TOWER DIAMETER AT 185'-0" ELEVATION (CONTRACTOR TO VERIFY WITH TOWER MANUFACTURER): 1'-7"±.
3. PER ANTENNA MOUNT ANALYSIS REPORT COMPLETED BY SMW ENGINEERING GROUP, INC, DATED JANUARY 18, 2021, THE PROPOSED MOUNTS CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

PROPOSED ANTENNA MOUNT PIPE (TYP OF 15). SEE APPENDIX FOR DETAILS.

PROPOSED SECTOR MONOPOLE FRAME BY COMMSCOPE (P/N: MCG2C-12-B3 [CONMAT # ANT.15898], TYP OF 3). SEE APPENDIX FOR DETAILS.



PROPOSED MOUNT DETAIL

SCALE: 1/4" = 1'-0"



PROPOSED ANTENNA MOUNT BY COMMSCOPE (TYP OF 3). SEE THIS SHEET & APPENDIX FOR DETAILS.

PROPOSED 4415 B30 RRU (TYP OF 3)

PROPOSED 4478 B14 RRU (TYP OF 3)

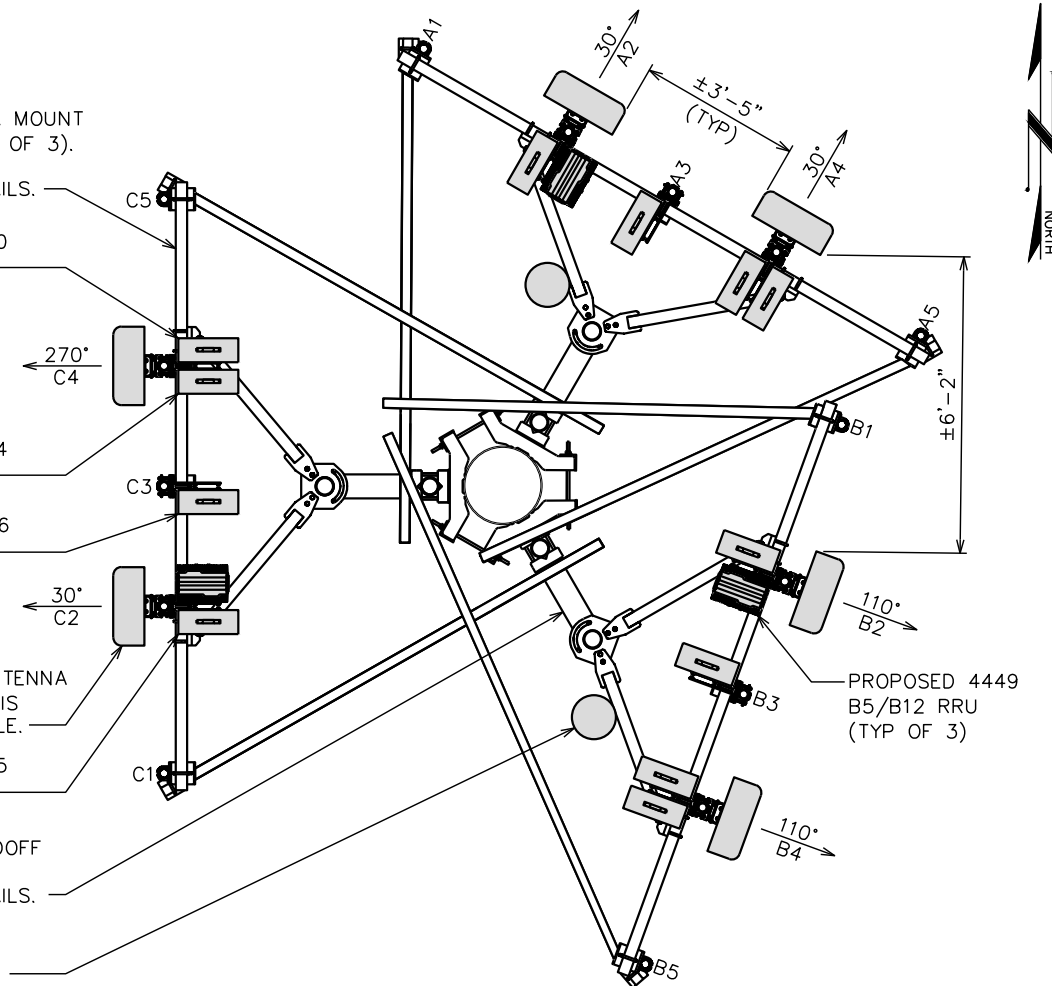
PROPOSED 4426 B66 RRU (TYP OF 3)

PROPOSED AT&T ANTENNA (TYP OF 6). SEE THIS SHEET FOR SCHEDULE.

PROPOSED 4415 B25 RRU (TYP OF 3)

PROPOSED 2' STANDOFF (TYP OF 3). SEE APPENDIX FOR DETAILS.

PROPOSED DC9 RAYCAP (TYP OF 2)



PROPOSED ANTENNA ORIENTATION

SCALE: 1/4" = 1'-0"



PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



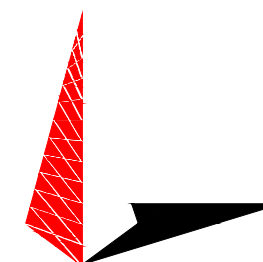
3001 MILLS STREET
LAFAYETTE, LA 70507

PROJECT INFORMATION:

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February 25, 2021

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REV	DATE	ISSUED FOR:

DRAWN BY: B5E CHECKED BY: C5N

SHEET TITLE:

ANTENNA MOUNTING DETAILS

SHEET NUMBER:	REVISION:
C-9	5
TEP#: 62631.454479	

GENERAL NOTES:

1. THIS ANTENNA ORIENTATION PLAN IS A SCHEMATIC. THE CONTRACTOR SHALL VERIFY TOWER ORIENTATION AND FIELD COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA AZIMUTHS.
2. ANTENNA CENTERLINE HEIGHT BASED ON TOP OF FOOTING ELEVATION.
3. ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
4. ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER, OR EQUAL, CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWN TILT WITH AT&T.
5. ALL ANTENNA INFORMATION TO BE CONFIRMED WITH AT&T RF DESIGN PRIOR TO INSTALLATION.
6. TEP DID NOT PERFORM A STRUCTURAL ANALYSIS ON THE MOUNT OR THE TOWER. IT IS THE CARRIER'S RESPONSIBILITY TO ENSURE MOUNT AND TOWER CAN SUPPORT ADDITIONAL LOADS.
7. EXISTING LOADING INFORMATION PROVIDED BY HIGH PERFORMANCE, AT&T RFDS ID: 4001685.
8. CABLE LENGTH TAKEN FROM AT&T RFDS. CONTRACTOR TO VERIFY LENGTH PRIOR TO ORDERING MATERIALS.


PROPOSED ANTENNA/CABLE SCHEDULE

ANT. MARK	SECTOR	TECH.	STATUS	MANUFACTURER/ MODEL #	DIMS (HxWxD)	AZIMUTH (TN)	RAD CENTER	ELEC. D-TILT	COAX/ CABLE	CABLE LENGTH	SURGE PROTECTION	RRU MODEL
A2	ALPHA	LTE 700 LTE 1900 LTE AWS 5G AWS	PROPOSED	COMMSCOPE NNH4-65C-R6-V3	H 96.0" W 19.6" D 7.8"	30°	185'	2° 2° 2°	(1) 0.39" FIBER ₂₄ (3) 0.92" DC POWER	248'	(1) DC9-48-60-24-8C-EV	(1) 4449 B5/B12 (1) 4415 B25 (1) 4426 B66
A4	ALPHA	LTE 700 LTE WCS	PROPOSED	COMMSCOPE NNH4-65C-R6-V3	H 96.0" W 19.6" D 7.8"	30°	185'	2° 2°	-	-	SHARED	(1) 4478 B14 (1) 4415 B30
B2	BETA	LTE 700 LTE 1900 LTE AWS 5G AWS	PROPOSED	COMMSCOPE NNH4-65C-R6-V3	H 96.0" W 19.6" D 7.8"	110°	185'	2° 2° 2°	(1) 0.39" FIBER ₂₄ (3) 0.92" DC POWER	248'	(1) DC9-48-60-24-8C-EV	(1) 4449 B5/B12 (1) 4415 B25 (1) 4426 B66
B4	BETA	LTE 700 LTE WCS	PROPOSED	COMMSCOPE NNH4-65C-R6-V3	H 96.0" W 19.6" D 7.8"	110°	185'	2° 2°	-	-	SHARED	(1) 4478 B14 (1) 4415 B30
C2	GAMMA	LTE 700 LTE 1900 LTE AWS 5G AWS	PROPOSED	COMMSCOPE NNH4-65C-R6-V3	H 96.0" W 19.6" D 7.8"	270°	185'	2° 2° 2°	-	-	SHARED	(1) 4449 B5/B12 (1) 4415 B25 (1) 4426 B66
C4	GAMMA	LTE 700 LTE WCS	PROPOSED	COMMSCOPE NNH4-65C-R6-V3	H 96.0" W 19.6" D 7.8"	270°	185'	2° 2°	-	-	SHARED	(1) 4478 B14 (1) 4415 B30

PROPOSED ANTENNA/CABLE SCHEDULE

SCALE: N.T.S.

property of



AUTHORIZED PERSONNEL ONLY!


In case of emergency or prior to performing maintenance on this site, call 1-800-638-2822 and reference cell site number:

- ① WHITE/BLUE BACKGROUND W/ BLACK LETTERING
QUANTITY: (1)
SIZE: 9"x12"
(TO BE MOUNTED ON EQUIPMENT SHELTER DOOR ADJACENT TO COMPOUND ENTRY - SEE NOTE 3)

DO NOT CLIMB TOWER WITHOUT OWNER'S WRITTEN PERMISSION

- ③ WHITE BACKGROUND W/ RED LETTERING
QUANTITY: (1)
(TO BE MOUNTED AT EYE LEVEL ON TOWER NEAR SAFETY CLIMB)

NOTICE



Radio Frequency fields beyond this point may exceed the FCC general public exposure limit.

OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS.

In accordance with Federal Communications Commission rules on radio frequency exposure 47 CFR 1.1307(b)

- ② WHITE/BLUE BACKGROUND W/ BLACK LETTERING
QUANTITY: (1)
(TO BE MOUNTED AT EYE LEVEL ON TOWER NEAR SAFETY CLIMB)

000

- ④ WHITE BACKGROUND W/ BLACK LETTERING
E911 STREET #
QUANTITY: (1 TYP)
LETTERS MUST BE A MINIMUM 6" TALL
(TO BE MOUNTED ON THE GATE OF COMPOUND)

- ① SITE IDENTIFICATION SIGN
- ② FCC/RF EXPOSURE SIGN
- ③ TOWER CLIMBING SIGN
- ④ STREET ADDRESS SIGN

NOTES:

1. SIGNS SHALL MEASURE 8"x12", BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
3. AT&T SITE # AND EMERGENCY CONTACT # SHALL BE MOUNTED ON THE EQUIPMENT SHELTER DOOR ADJACENT TO THE COMPOUND ENTRY WITH PERMANENT SET ADHESIVE. TWO-SIDED TAPE SHALL BE UTILIZED AT EACH CORNER ON THE BACKSIDE TO AID PLACEMENT UNTIL ADHESIVE SETS.
4. ADDITIONAL E911 ADDRESS SIGNS ARE REQUIRED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF. LETTERING ON 911 ADDRESS SIGNS MUST BE A MINIMUM OF 6" TALL.
5. ADDITIONAL FCC REGISTRATION # SIGNS ARE REQUIRED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
6. RECOMMENDED SOURCE FOR OBTAINING SIGNAGE:

ST. CLAIR SIGNS
3184 WADE HAMPTON BLVD.
TAYLORS, SC 29687
(864) 244-0040

RF EXPOSURE SIGNS
RICHARD TELL ASSOCIATES
3433 RINGSTAR ROAD, SUITE 3
NORTH LAS VEGAS, NV 89030
(702) 645-3338

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



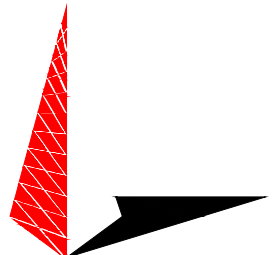
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DRAWN BY: BSE CHECKED BY: C5N

SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER:	REVISION:
C-10	5
	TEP#: 62631.454479

TYPICAL SIGNS AND SPECIFICATIONS

SCALE: N.T.S.

SCOPE:

- 1. PROVIDE LABOR, MATERIALS, INSPECTION, AND TESTING TO PROVIDE CODE COMPLIANCE FOR ELECTRIC, TELEPHONE, AND GROUNDING/LIGHTNING SYSTEMS.

CODES:

- 1. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND CODES. THESE INCLUDE BUT ARE NOT LIMITED TO THE LATEST ADOPTED EDITIONS OF:
A. THE NATIONAL ELECTRICAL SAFETY CODE
B. THE NATIONAL ELECTRIC CODE - NFPA-70
C. REGULATIONS OF THE SERVING UTILITY COMPANY
D. LOCAL AND STATE AMENDMENTS
E. THE INTERNATIONAL ELECTRIC CODE - IEC (WHERE APPLICABLE)
2. PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR.
3. AFTER COMPLETION AND FINAL INSPECTION OF THE WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF COMPLETION AND APPROVAL.

TESTING:

- 1. UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST THE EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. THE TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE:

- 1. IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND WITHOUT EXPENSE TO THE OWNER.
2. THE WARRANTEE CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

UTILITY CO-ORDINATION:

- 1. CONTRACTOR SHALL COORDINATE WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH THE SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE:

- 1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH THE CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS SECTION WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING THE WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING, PATCHING AND EXCAVATION:

- 1. COORDINATION OF SLEEVES, CHASES, ETC., BETWEEN SUBCONTRACTORS WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
2. NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE ELECTRICAL WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING.
3. SEAL PENETRATIONS THROUGH RATED WALLS, FLOORS, ETC., WITH APPROVED METHOD AS LISTED BY UL.

RACEWAYS / CONDUITS GENERAL:

- 1. CONDUCTORS SHALL BE INSTALLED IN LISTED RACEWAYS. CONDUIT SHALL BE RIGID STEEL, EMT, SCH40 PVC, OR SCH80PVC AS INDICATED ON THE DRAWINGS. THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS.
2. EXTERIOR RACEWAYS AND GROUNDING SLEEVES SHALL BE SEALED AT POINTS OF ENTRANCE AND EXIT. THE RACEWAY SYSTEM SHALL BE BONDED PER NEC.

EXTERIOR CONDUIT:

- 1. EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.
2. THE CONDUIT SHALL BE RIGID STEEL AT GRADE TRANSITIONS OR WHERE EXPOSED TO DAMAGE.
3. UNDERGROUND CONDUITS SHALL BE RIGID STEEL, SCH40 PVC, OR SCH80 PVC AS INDICATED ON THE DRAWINGS.
4. BURIAL DEPTH OF CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION, BUT SHALL NOT BE LESS THAN THE FROST DEPTH AT THE SITE.
5. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY ROUTES BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND/OR BUILDING OWNER.

INTERIOR CONDUIT:

- 1. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT OR PVC.
2. CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
3. PROVIDE SUPPORTS FOR CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.

EQUIPMENT:

- 1. DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
2. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK. CONTRACTOR WILL VERIFY THAT EXISTING CIRCUIT BREAKERS ARE RATED FOR MORE THAN AVAILABLE FAULT CURRENT AND REPLACE AS NECESSARY.
3. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY.

CONDUCTORS:

- 1. FURNISH AND INSTALL CONDUCTORS SPECIFIED IN THE DRAWINGS. CONDUCTORS SHALL BE COPPER AND SHALL HAVE TYPE THWN (MIN) (75° C) INSULATION, RATED FOR 600 VOLTS.
2. THE USE OF ALUMINUM CONDUCTORS SHALL BE LIMITED TO THE SERVICE FEEDERS INSTALLED BY THE UTILITY.
3. CONDUCTORS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:
A. MINIMUM WIRE SIZE SHALL BE #12 AWG.
B. CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND #12 MAY BE SOLID OR STRANDED.
C. CONNECTION FOR #10 AWG #12 AWG SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.
D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
3. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS.

UL COMPLIANCE:

- 1. ELECTRICAL MATERIALS, DEVICES, CONDUCTORS, APPLIANCES, AND EQUIPMENT SHALL BE LABELED/LISTED BY UL OR ACCEPTED BY JURISDICTION (I.E., LOCAL COUNTY OR STATE) APPROVED THIRD PARTY TESTING AGENCY.

GROUNDING:

- 1. ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED AT A SINGLE POINT.
2. PROVIDE GROUND CONDUCTOR IN RACEWAYS PER NEC.
3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 - "LIGHTNING PROTECTION" AS A MINIMUM.
4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, RADIO EQUIPMENT MANUFACTURERS, AND MOTOROLA R56 (AS APPLICABLE).

ABBREVIATIONS AND LEGEND table with columns for symbols and descriptions. Includes items like AMPERE, ABOVE FINISHED GRADE, AUTOMATIC TRANSFER SWITCH, etc.

PLANS PREPARED FOR: at&t logo
2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR: HIGH PERFORMANCE SERVICES, LLC logo
3001 MILLS STREET LAFAYETTE, LA 70507

PROJECT INFORMATION: AT&T SITE #: 368-323
179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)

PLANS PREPARED BY: TOWER ENGINEERING PROFESSIONALS logo
326 TRYON ROAD RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351 www.tepgroup.net N.C. LICENSE # P-1403

SEAL: Engineer Mark S. Quakenbush, State of North Carolina, License No. 042109, February 25, 2021

Table with 3 columns: REV, DATE, ISSUED FOR. Rows: 5 02-25-21 CONSTRUCTION, 4 01-20-21 PRELIMINARY

DRAWN BY: BSE CHECKED BY: C5N

SHEET TITLE: ELECTRICAL NOTES

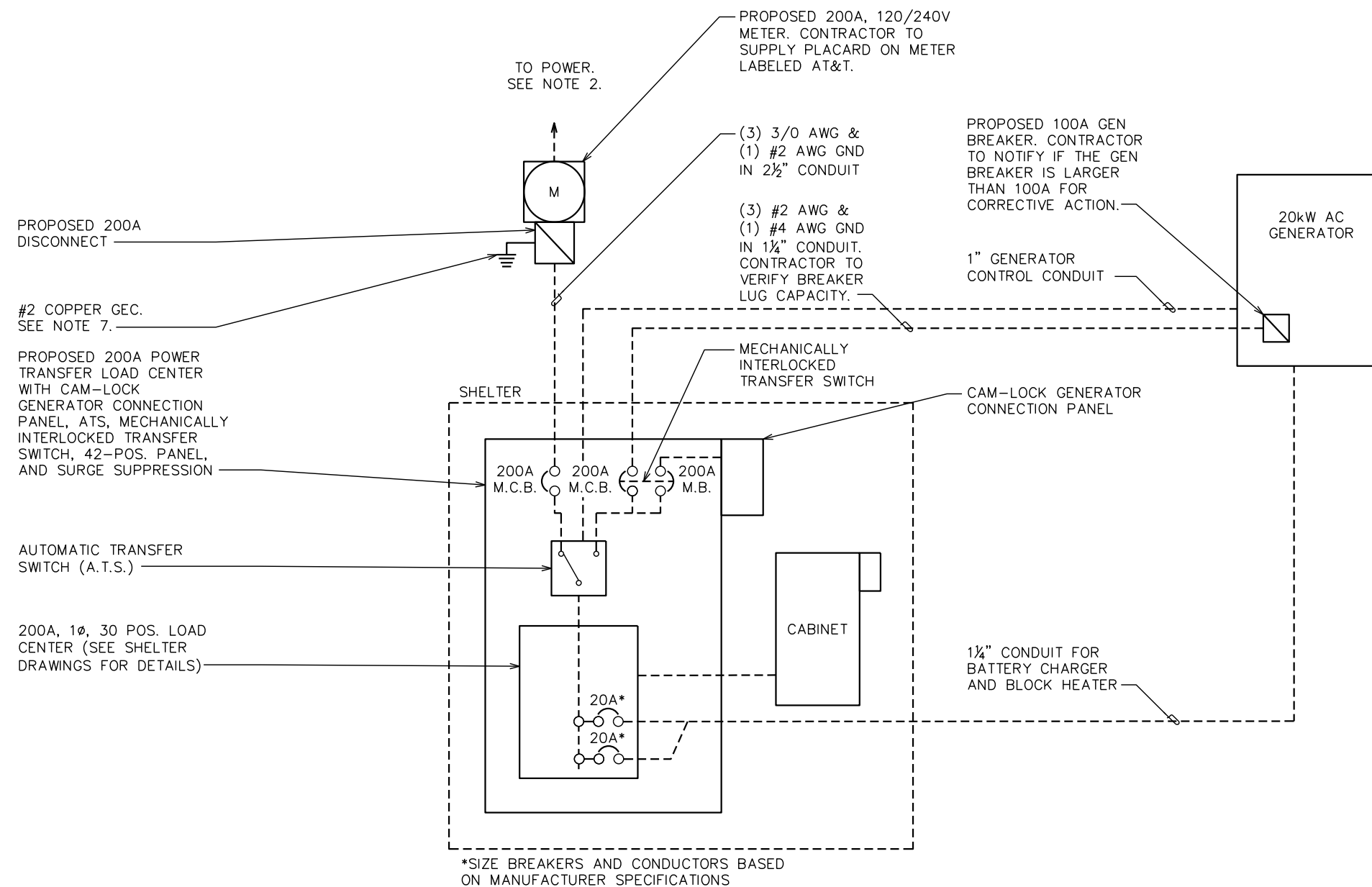
SHEET NUMBER: E-1 REVISION: 5 TEP #: 62631.454479


GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.
2. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.
3. ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.
4. CONTRACTOR SHALL LABEL METER SOCKET WITH SERVICE OWNER NAMEPLATE WITH 1/2" HEIGHT MINIMUM LETTERS.
5. ALL EQUIPMENT WILL HAVE A MINIMUM AIC OF 10 KA. CONTRACTOR TO DETERMINE AVAILABLE FAULT CURRENT BEFORE ENERGIZING EQUIPMENT. THE AMOUNT OF AVAILABLE FAULT CURRENT SHALL BE MARKED ON THE SERVICE EQUIPMENT PER NEC 110.24.
6. CONTRACTOR WILL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.
7. GROUNDING ELECTRODE CONDUCTOR IS SIZED FOR A SINGLE 200A SERVICE ONLY. IF METER BANK SHARES A COMMON NEUTRAL/GROUND, CONTRACTOR WILL INSTALL (1) 3/0 COPPER GEC INSTEAD.

ONE-LINE DIAGRAM NOTES:

1. ELECTRICAL SERVICE SHALL BE 200A, 120/240V, 1Ø, 3W.
2. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.



PLANS PREPARED FOR:

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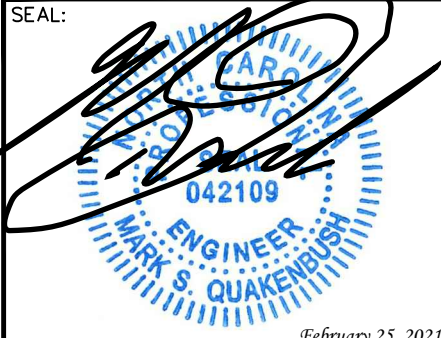
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 LAFAYETTE, LA 70507

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SHEET TITLE:
ONE-LINE DIAGRAM

SHEET NUMBER: **E-2A** REVISION: **5**
 TEP#: 62631.454479

ONE-LINE DIAGRAM


SCALE: N.T.S.

LOADING SHOWN TAKEN FROM VERTIV WIC DRAWINGS APPROVED JANUARY 16, 2017

PROPOSED 200A, 120/240 VAC AT&T POWER PANEL SCHEDULE														
LOAD SERVED	VOLT AMPERES (WATTS)		WIRE	BREAKER		CKT #	PHASE	CKT #	BREAKER		WIRE	VOLT AMPERES (WATTS)		LOAD SERVED
	L1	L2		P	TRIP				TRIP	P		L1	L2	
RECTIFIER #1	2000		10	2	30	1	A	2	20	1	12	360		GFCI RECEPTACLES
		2000				3	B	4					2000	RECTIFIER #3
RECTIFIER #2	2000		10	2	30	5	A	6	30	2	10	2000		
		2000				7	B	8	20	1	12		1200	GEN. BATTERY CHARGER
BLANK	-		-	-	-	9	A	10	20	1	12	1000		GEN. BLOCK HEATER
						11	B	12						BLANK
BLANK	-		-	-	-	13	A	14						BLANK
						15	B	16						BLANK
BLANK	-		-	-	-	17	A	18						BLANK
						19	B	20						BLANK
BLANK	-		-	-	-	21	A	22						BLANK
						23	B	24						BLANK
HVAC	1920		12	2	20	25	A	26						BLANK
		1920				27	B	28	20	1	12		200	FLOOD LIGHTS
APPLIANCE OUTLETS	180		12	2	20	29	A	30						BLANK
VOLT AMPS	6100	5920										3360	3400	VOLT AMPS
L1 VOLT AMPERES						9460	9320	L2 VOLT AMPERES						
L1 AMPS						78.8	77.7	L2 AMPS						
						78.8		MAX AMPS						
						97.9		*MAX AMPS X 125%						

NOTE:

CONTRACTOR TO LIMIT TOTAL AC LOAD TO 20,000 WATTS

PLANS PREPARED FOR:

 2002 PISGAH CHURCH ROAD, SUITE 300
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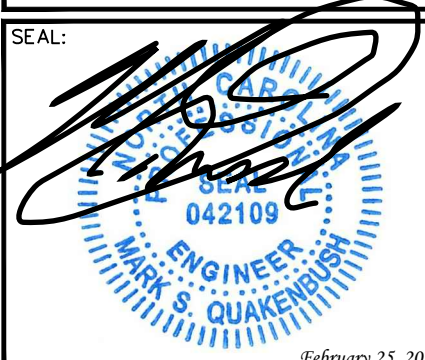
PLANS PREPARED FOR:

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AT&T SITE #: 368-323
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SHEET TITLE:
PANEL SCHEDULE

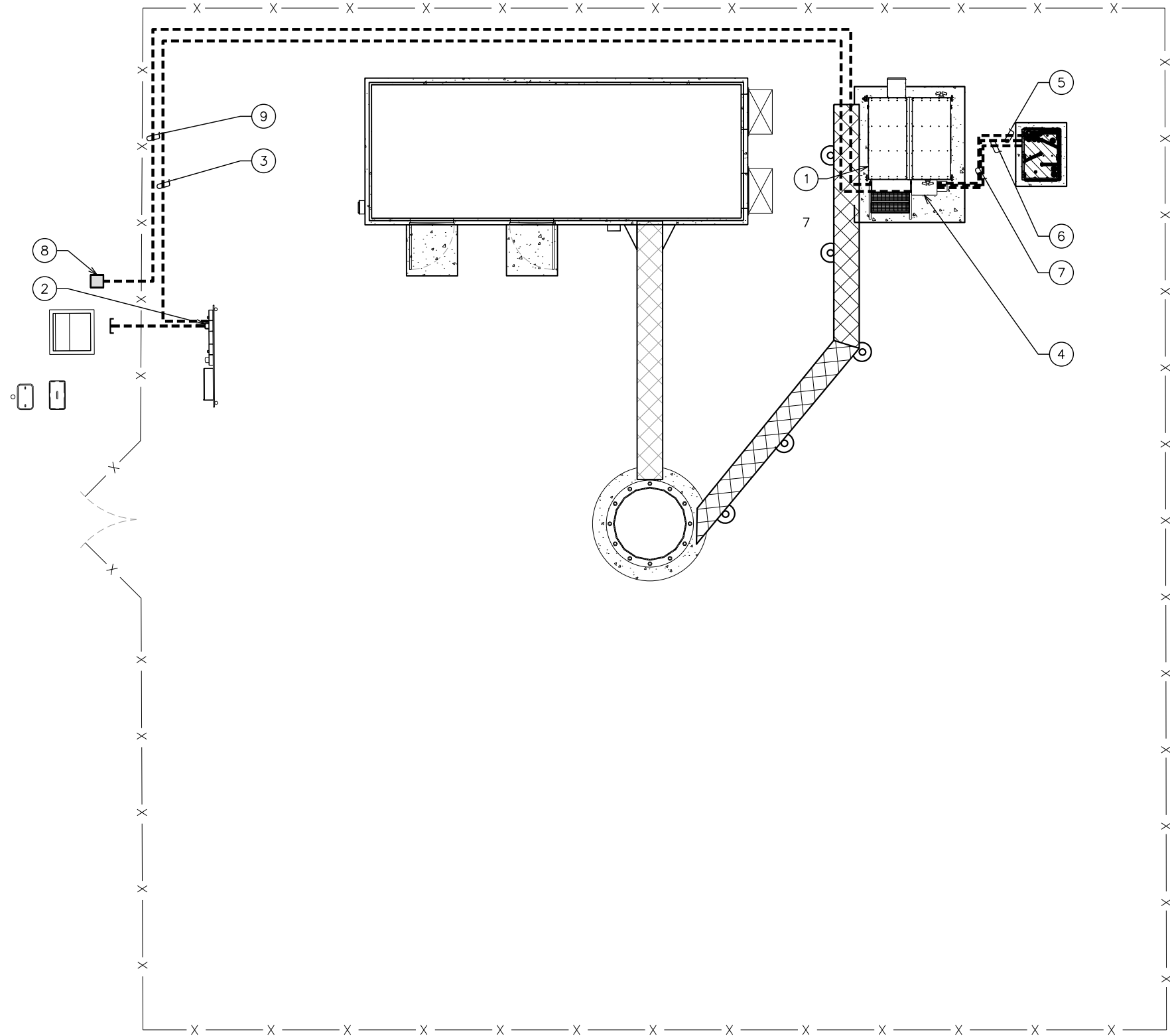
SHEET NUMBER: **E-2B** REVISION: **5**
 TEP#: 62631.454479


TRENCHING NOTES:

1. PRIOR TO ANY DIGGING, THE CONTRACTOR SHALL IDENTIFY ALL EXISTING UTILITIES ON SITE.
2. A MINIMUM SEPARATION OF 12" IS REQUIRED BETWEEN THE POWER AND FIBER CONDUITS

PLAN NOTES:

- 1 PROPOSED AT&T WIC EQUIPMENT SHELTER
- 2 PROPOSED 200A METER & DISCONNECT
- 3 (1) 2½" POWER CONDUIT FROM METER TO 200A LOAD CENTER
- 4 200A LOAD CENTER
- 5 (1) 1¼" POWER CONDUIT FROM ATS INSIDE LOAD CENTER TO PROPOSED 20kW AC GENERATOR
- 6 (1) 1¼" CONDUIT FROM LOAD CENTER TO PROPOSED 20kW AC GENERATOR FOR BATTERY CHARGER AND BLOCK HEATER
- 7 (1) 1" GENERATOR CONTROL CONDUIT FROM THE ATS TO PROPOSED 20kW AC GENERATOR
- 8 PROPOSED FIBER MEET-ME POINT. LOCATION IS TO BE ESTABLISHED WITH THE LEC PRIOR TO INSTALLATION
- 9 (1) 4" TELCO CONDUIT W/ (3) 1¼" FLEX INTERDUCT & PULL STRING FOR FIBER POWER LEADS STUBBED UP IN FIBER HANDHOLE. CONTRACTOR TO COORDINATE SERVICE WITH LOCAL TELEPHONE COMPANY.



PLANS PREPARED FOR:

 2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455

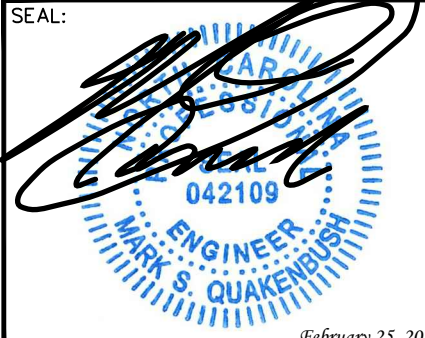
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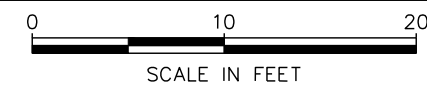
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SHEET TITLE:
SERVICE ROUTING PLAN

SHEET NUMBER: **E-3** REVISION: **5**
 TEP#: 62631.454479

SERVICE ROUTING PLAN

SCALE: 1" = 10'

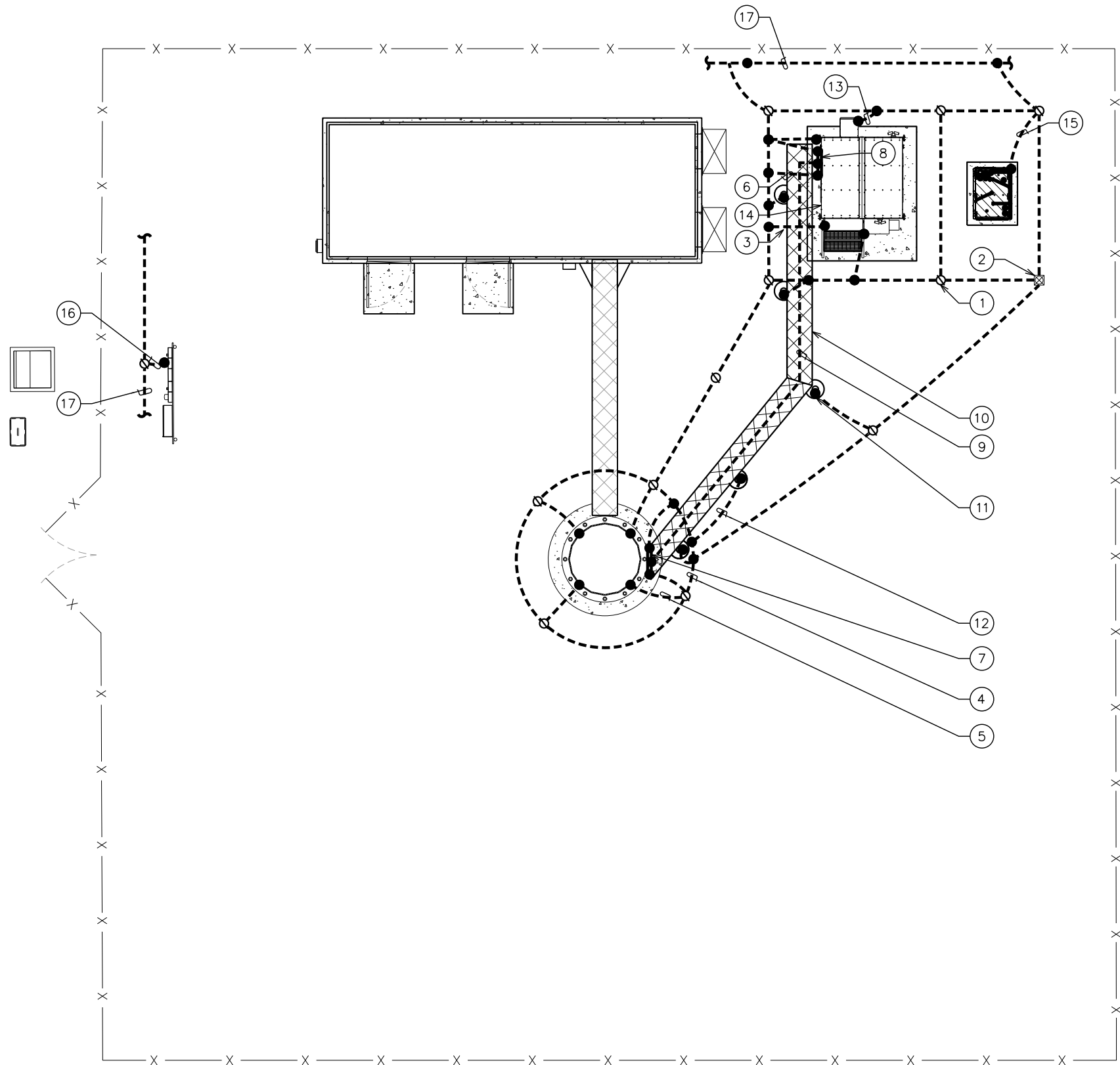


DRAWING NOTES:

- ① GROUND ROD 5/8"x10' LONG (TYP)
- ② GROUND ROD WITH INSPECTION WELL (TYP)
- ③ CADWELD (TYP)
- ④ TOWER GROUND RING
- ⑤ (2) #2 AWG SOLID BARE TINNED COPPER BONDS BETWEEN TOWER AND TOWER GROUND RING (INSTALL (2) LEADS ON RING ON EITHER SIDE OF THE GROUND ROD IN OPPOSITE DIRECTIONS ON RING. (1) MINIMUM BOND PER TOWER LEG AND (2) MINIMUM BONDS PER TOWER).
- ⑥ #2 AWG BARE SOLID BARE TINNED COPPER WIRE GROUND RING (SHELTER)
- ⑦ PROPOSED BOTTOM TOWER BUS BAR
- ⑧ PROPOSED ICE BRIDGE BUS BAR
- ⑨ #2 AWG BARE SOLID TINNED COPPER WIRE BETWEEN BUS BARS
- ⑩ PROPOSED ICE BRIDGE
- ⑪ PROPOSED ICE BRIDGE POST (TYP)
- ⑫ #2 AWG ICE BRIDGE BOND BURIED 30" BFG (TYP)
- ⑬ HVAC GROUND. MECHANICAL CONNECTIONS AT HVAC UNITS ABOVE GRADE AS ALLOWED BY CODE.
- ⑭ PROPOSED AT&T WIC EQUIPMENT SHELTER
- ⑮ #2 AWG BOND BETWEEN GENERATOR AND GROUND RING
- ⑯ #2 AWG BOND BONDING PROPOSED METER TO EXISTING EARTH GROUND GROUND SYSTEM
- ⑰ EXISTING EARTH GROUND SYSTEM (CONTRACTOR TO VERIFY)

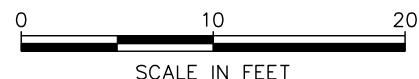
GROUNDING NOTES

1. GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 AWG BARE TINNED COPPER WIRE. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 2 FEET BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 10'-0" CENTERS. (MIN. 15'-0" MAX)
2. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS/ BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250.30.
3. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.



TOWER GROUNDING PLAN

SCALE: 1" = 10'



PLANS PREPARED FOR:



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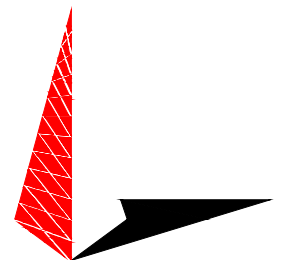
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LAFAYETTE, LA 70507

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(HARNETT COUNTY)

PLANS PREPARED BY:



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SHEET TITLE:

GROUNDING PLAN

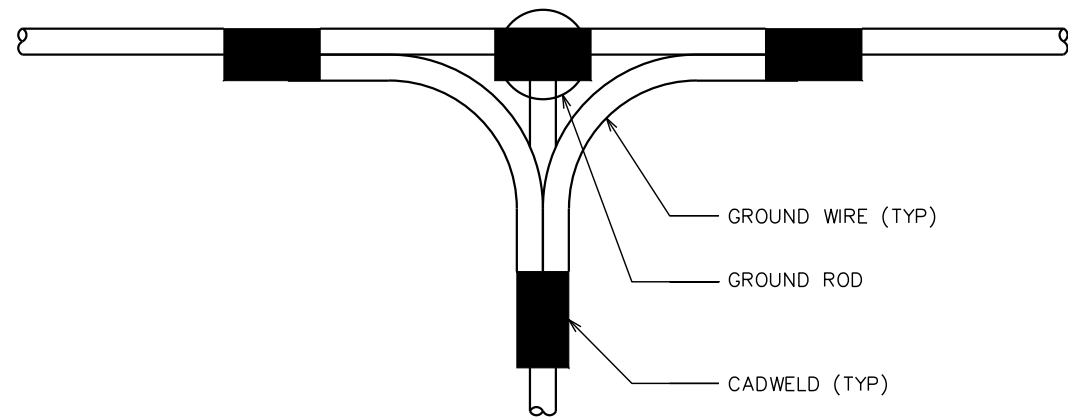
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E-4

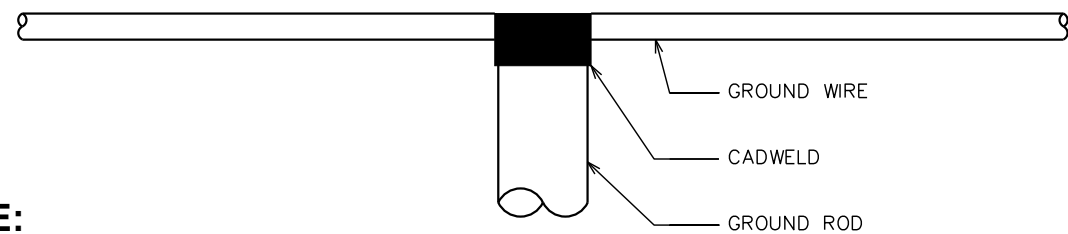
REVISION:

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TEP#: 62631.454479



TOP VIEW



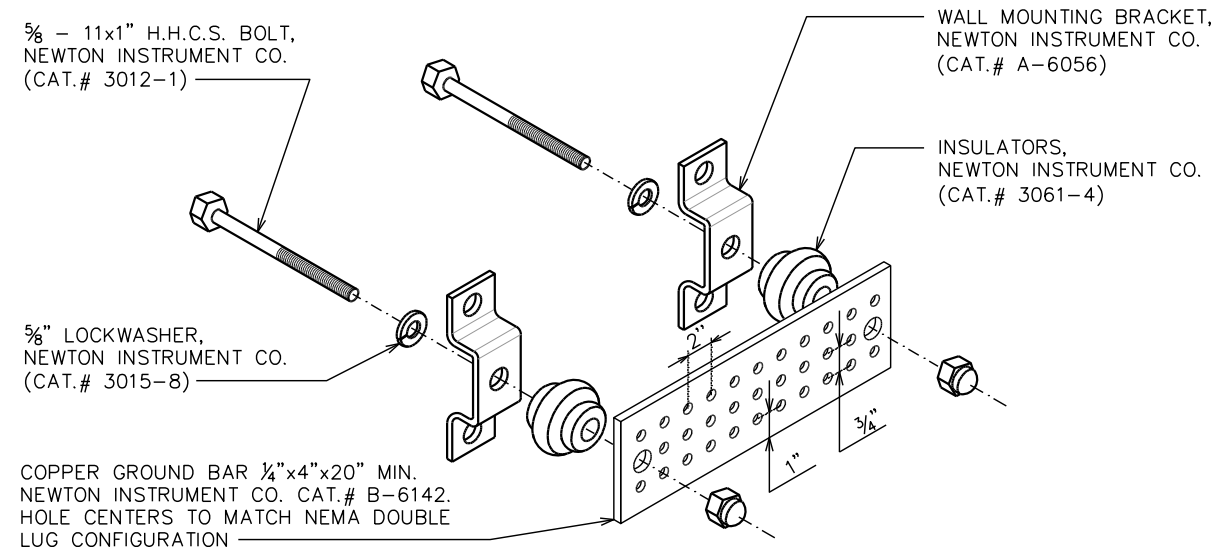
SIDE VIEW

NOTE:

MINIMUM SPACING OF 12" BETWEEN ALL CADWELDS

CADWELD GROUNDING DETAIL

SCALE: N.T.S.

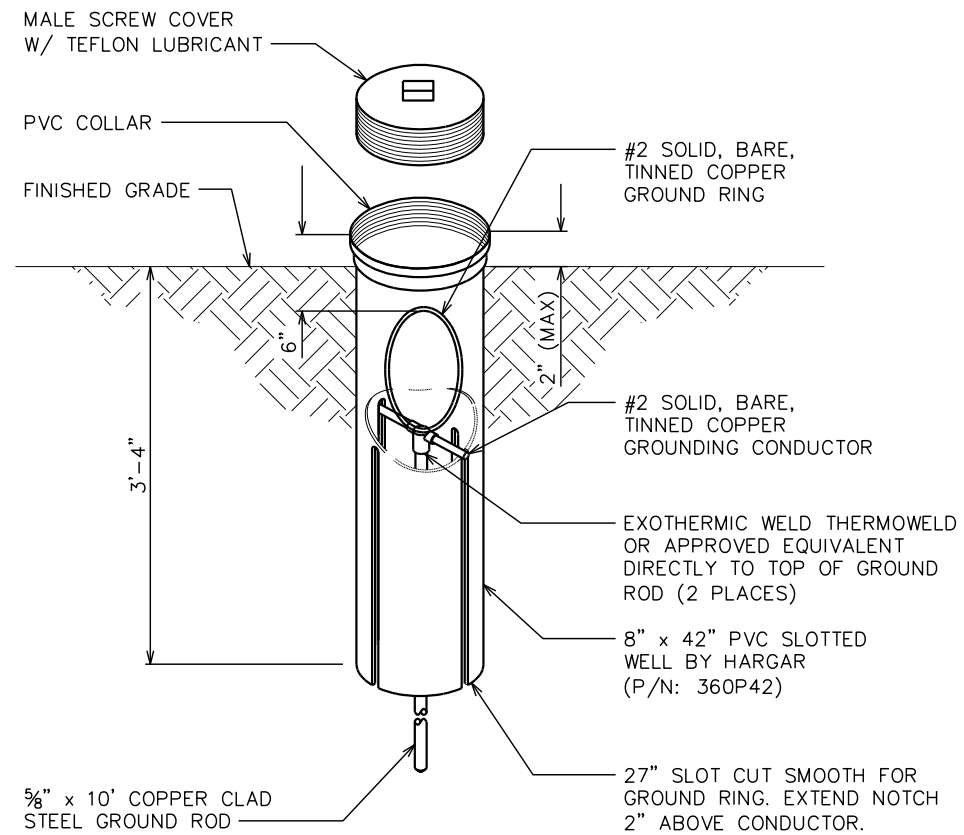


NOTE:

GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED AS WELL AS PROVIDE 50% SPARE CAPACITY

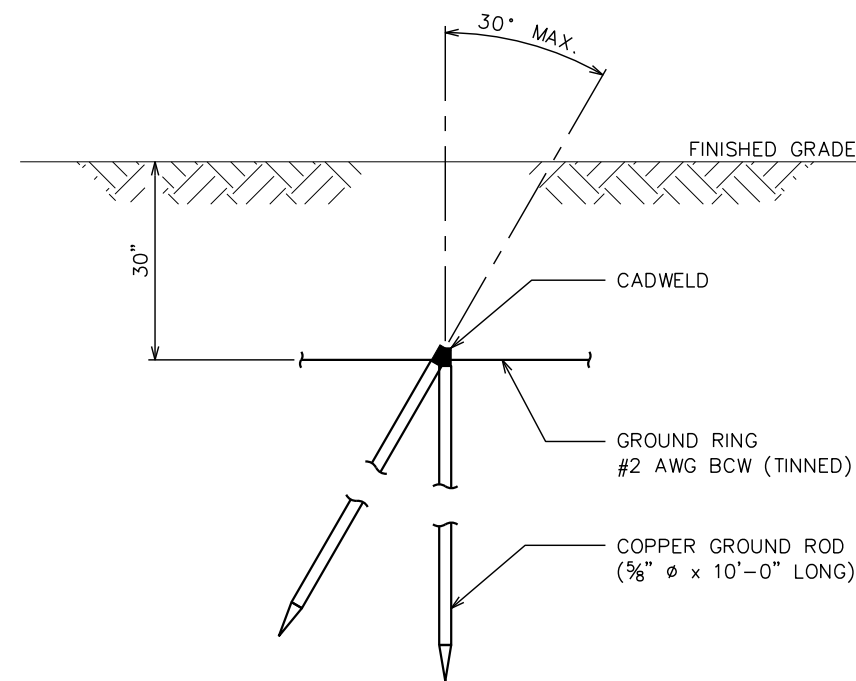
STANDARD GROUND BAR DETAIL

SCALE: N.T.S.



GROUND ROD WITH INSPECTION WELL DETAIL

SCALE: N.T.S.



COPPER-CLAD STEEL GROUND ROD DETAIL

SCALE: N.T.S.

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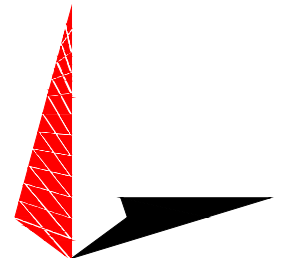


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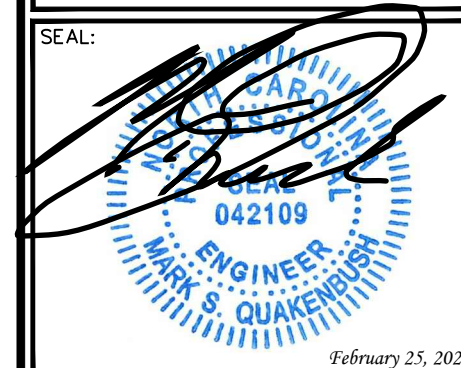
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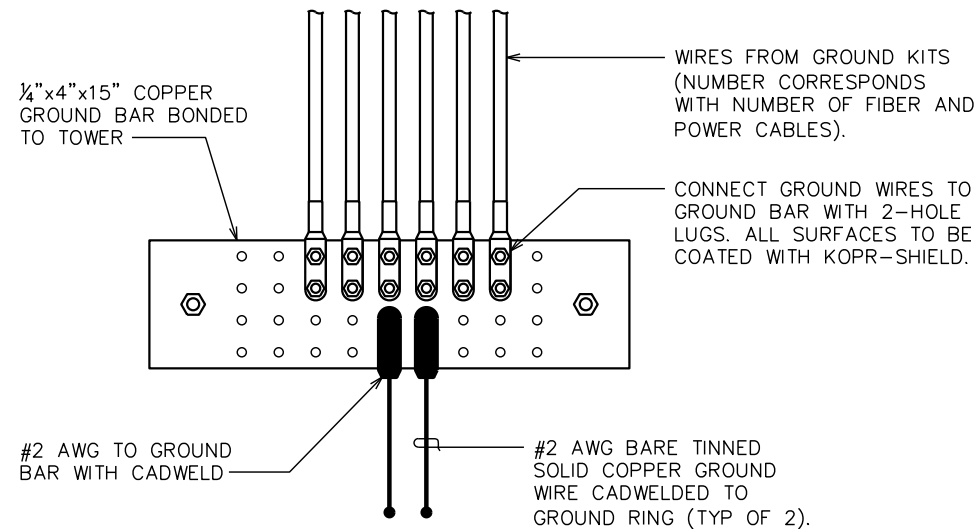
GROUNDING DETAILS I

SHEET NUMBER: REVISION:

E-5

5

TEP#: 62631.454479



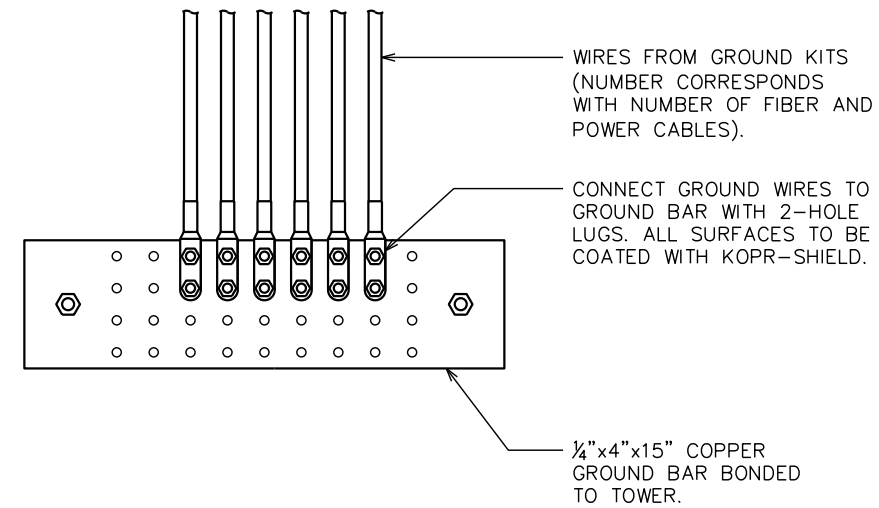
END VIEW

LOWER GROUND BAR

SCALE: N.T.S.

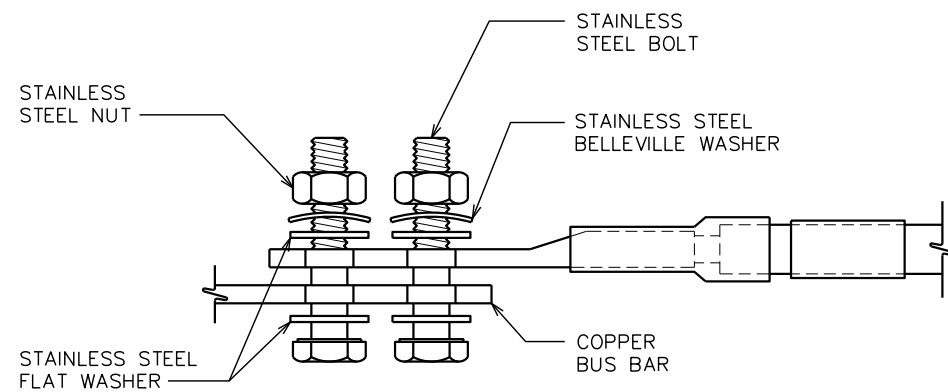
NOTE:

THE CONTRACTOR SHALL UTILIZE AN INTERMEDIATE GROUND BAR FOR ANTENNA RAD CENTERS OVER 200'.



UPPER / INTERMEDIATE GROUND BAR

SCALE: N.T.S.

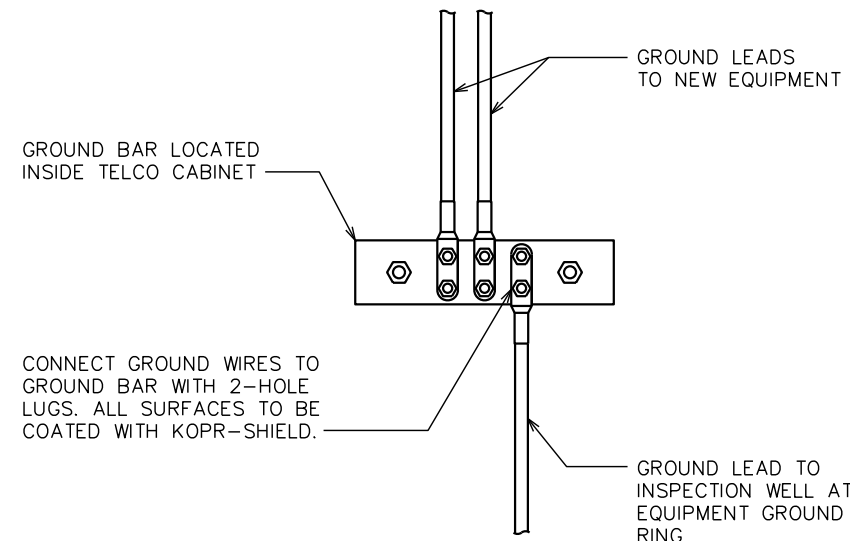


NOTES:

1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL, INCLUDING THE BELLEVILLE WASHERS. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY; INSERT A DRAGON TOOTH WASHER BETWEEN THE LUG AND STEEL. COAT ALL SURFACES WITH KOPR-SHIELD.

LUG DETAIL

SCALE: N.T.S.



GROUND BAR IN TELCO CABINET

SCALE: N.T.S.

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PLANS PREPARED FOR:



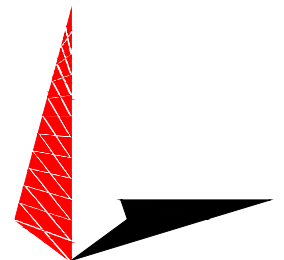
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SHEET TITLE:

**GROUNDING
DETAILS II**

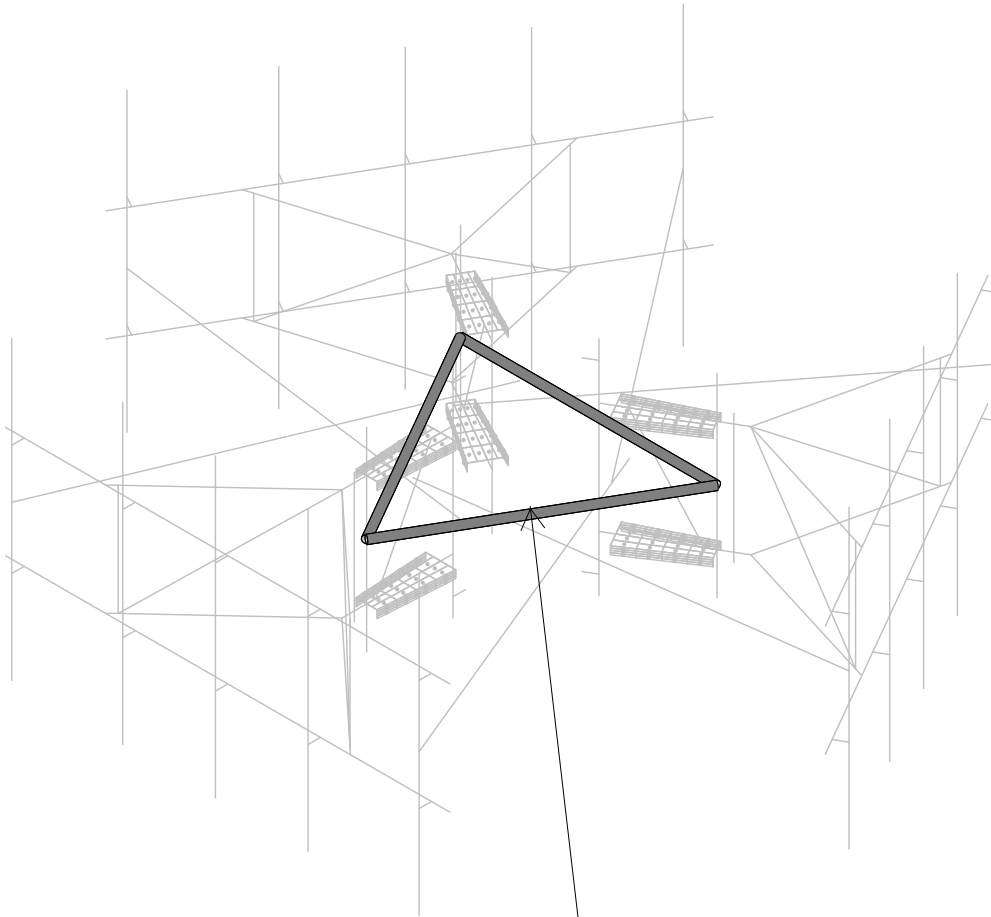
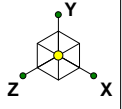
SHEET NUMBER:

E-6

REVISION:

5

TEP#: 62631.454479



PROPOSED 84" LONG (F.V.) x 2.0"
STD (2.38" O.D.) PIPES
CONNECTING THE STANDOFF
VERTICALS AND INSTALLED AT
THE MIDPOINT BETWEEN
STANDOFF ARMS USING
COMMSCOPE CROSSOVER
PLATES P/N: XP-2040
(CONMAT: N/A)
(3 TOTAL, 1 PER SECTOR)

AT&T

SMW

368-323

Proposed Design

Jan 18, 2021 at 4:20 PM

368-323_Full.r3d

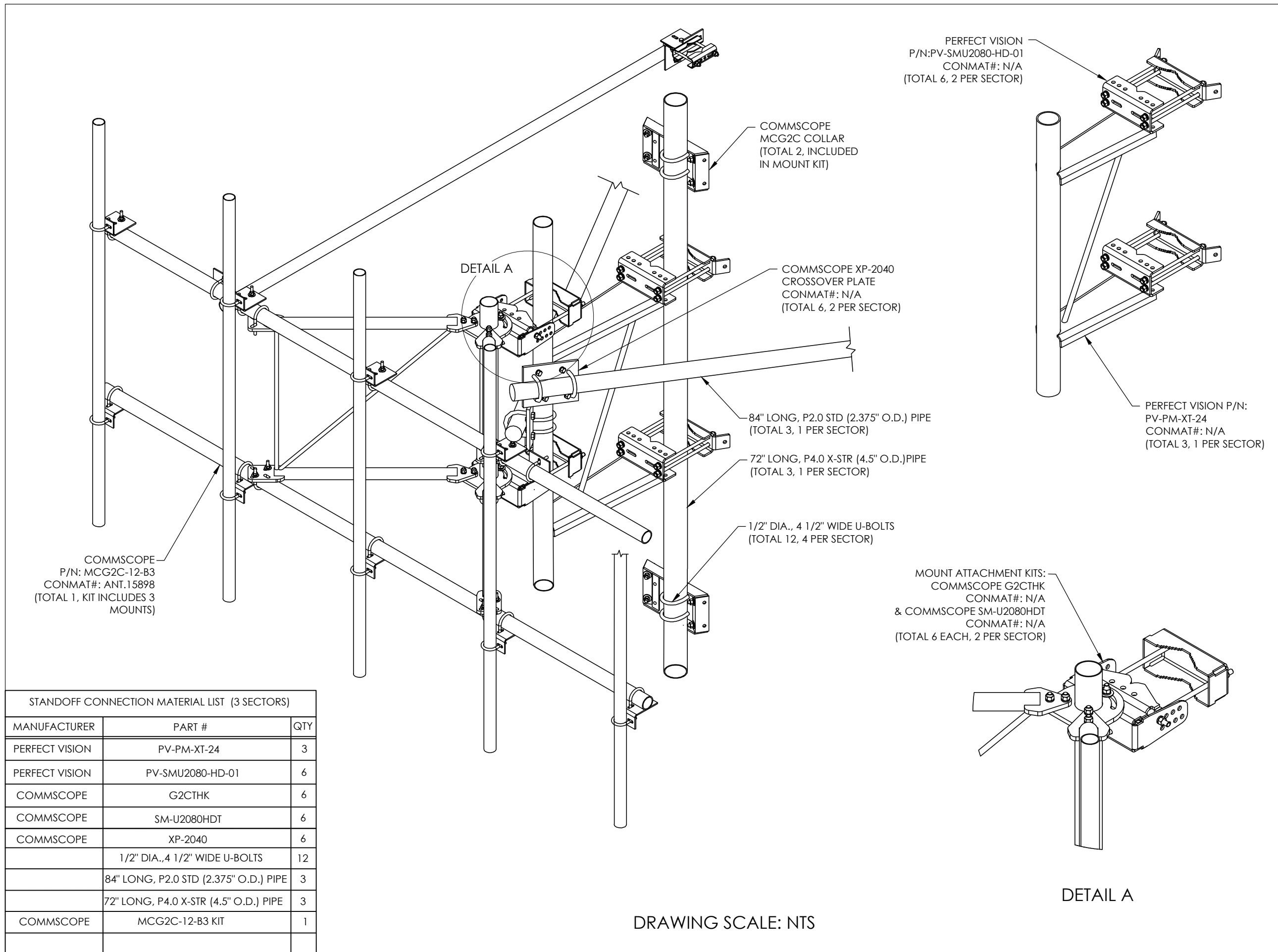
REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
0	08/17/20	CONSTRUCTION	KJT
1	09/22/20	BRACKET KITS ADDED	KJT
2	09/28/20	CONSTRUCTION	KJT

NOT FOR CONSTRUCTIONS UNLESS LABELED AS CONSTRUCTION SET

368-323
 CONNECTION
 DETAILS

S-1



STANDOFF CONNECTION MATERIAL LIST (3 SECTORS)		
MANUFACTURER	PART #	QTY
PERFECT VISION	PV-PM-XT-24	3
PERFECT VISION	PV-SMU2080-HD-01	6
COMMSCOPE	G2CTHK	6
COMMSCOPE	SM-U2080HDT	6
COMMSCOPE	XP-2040	6
	1/2" DIA., 4 1/2" WIDE U-BOLTS	12
	84" LONG, P2.0 STD (2.375" O.D.) PIPE	3
	72" LONG, P4.0 X-STR (4.5" O.D.) PIPE	3
COMMSCOPE	MCG2C-12-B3 KIT	1

DRAWING SCALE: NTS

DETAIL A

XP-2040



Crossover Plate, joins 2-3/8 in to 4-1/2 in OD round members

Product Classification

Product Type Clamp plate

General Specifications

Mounting Crossover plate

Tower Taper Non-tapered

Dimensions

Height 127 mm | 5 in

Width 254 mm | 10 in

Length 304.8 mm | 12 in

Mounting Diameter, maximum 88.9 mm | 3.5 in

Mounting Diameter, minimum 60.96 mm | 2.4 in

Material Specifications

Material Type Hot dip galvanized steel

Packaging and Weights

Included Plates | U-bolts

Packaging quantity 1

Weight, net 5 kg | 11.023 lb

Regulatory Compliance/Certifications

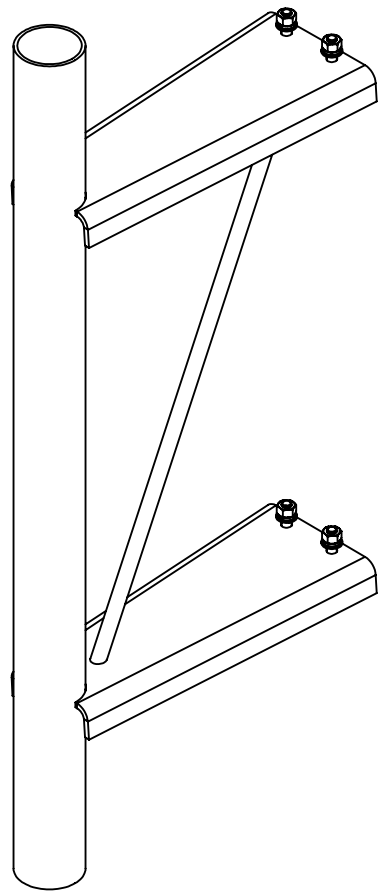
Agency

ISO 9001:2015

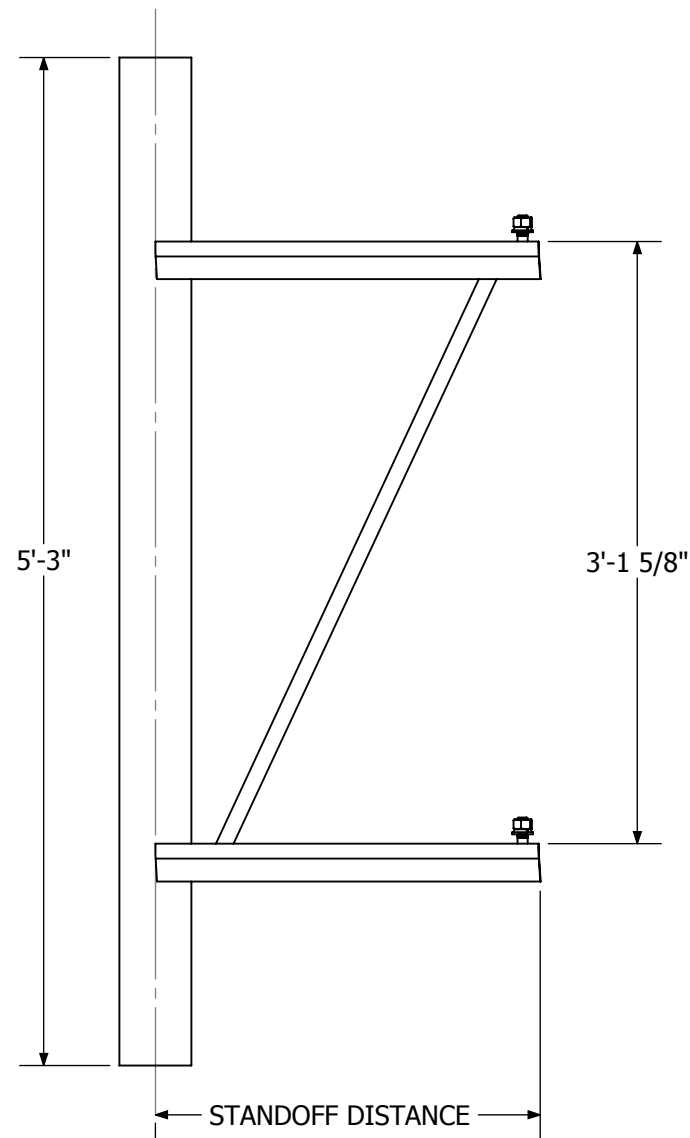
Classification

Designed, manufactured and/or distributed under this quality management system

PV-PM-XT

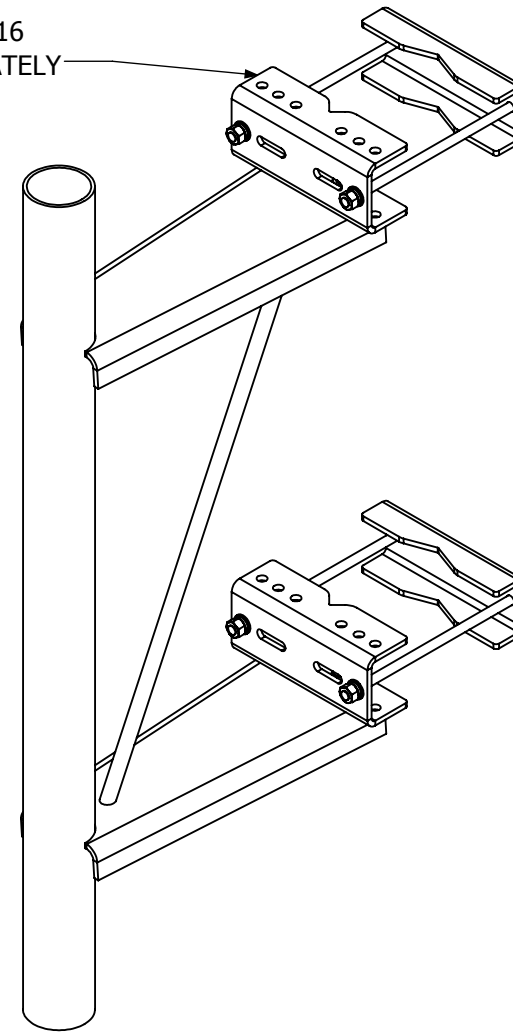


PV-PM-XT-##
PIPE MOUNT STANDOFF
WEIGHT: SEE TABLE 1



PLAN VIEW

PV-SMU2080
OR
PV-SMU2016
SOLD SEPARATELY



PIPE MOUNT STANDOFF WITH LEG ATTACHMENT BRACKETS

TABLE 1: STANDOFF CONFIGURATIONS		
PART NUMBER	STANDOFF DISTANCE	WEIGHT
PV-PM-XT-24	24"	125.2 LBS
PV-PM-XT-36	36"	156.1 LBS



16101 La Grande Dr.
Little Rock, AR 72223
(630)-201-4012

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REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHK	APD
5					
4					
3					
2					
1					
0	10/2/15	INITIAL RELEASE	DJN	AM	SS

SITE INFORMATION:

DESIGN TYPE:

PIPE MOUNT
STANDOFF

SHEET TITLE:

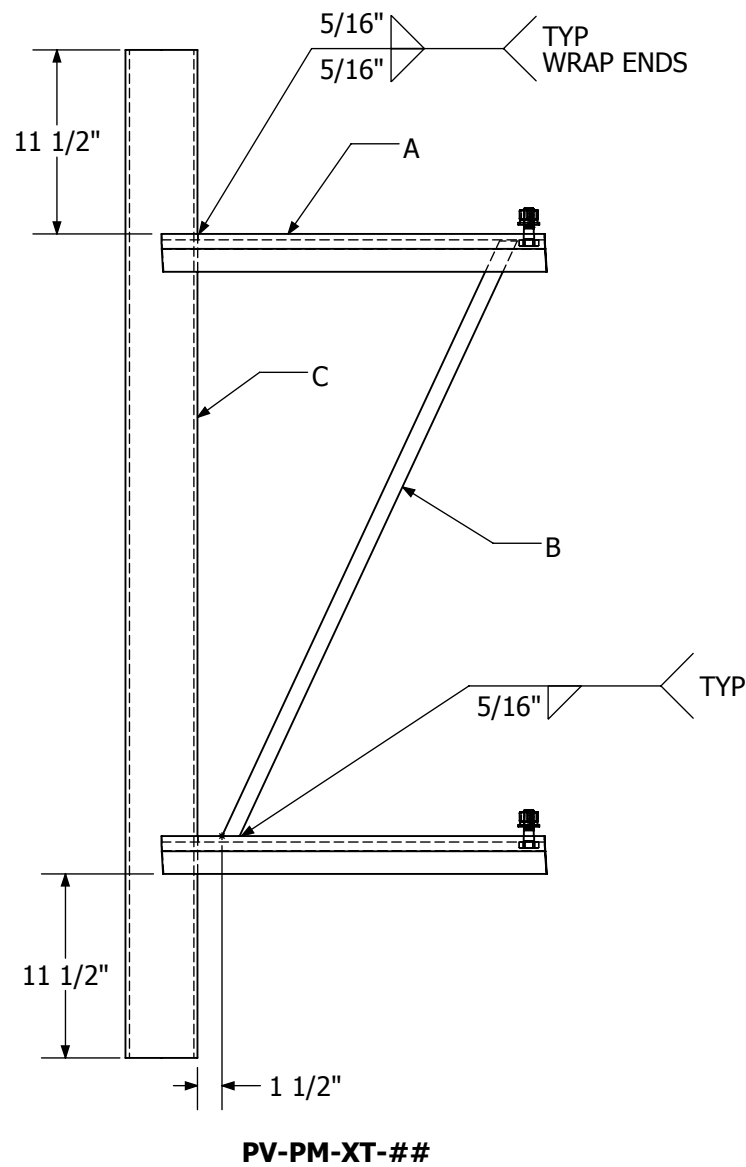
ENGINEERING DETAIL

SHEET TITLE:

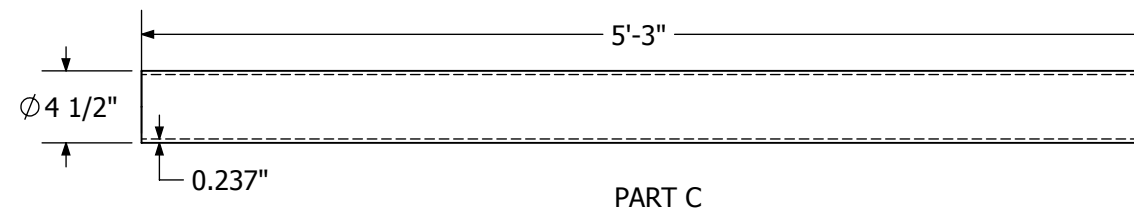
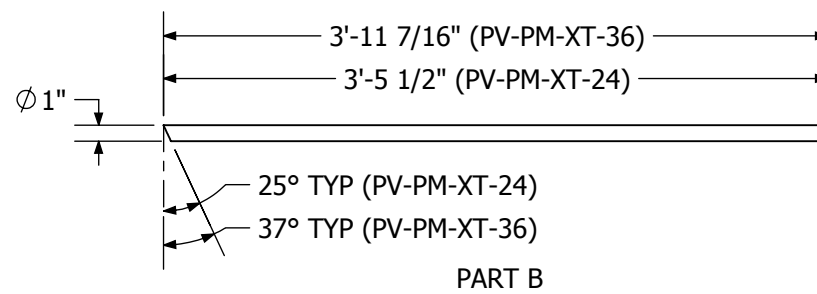
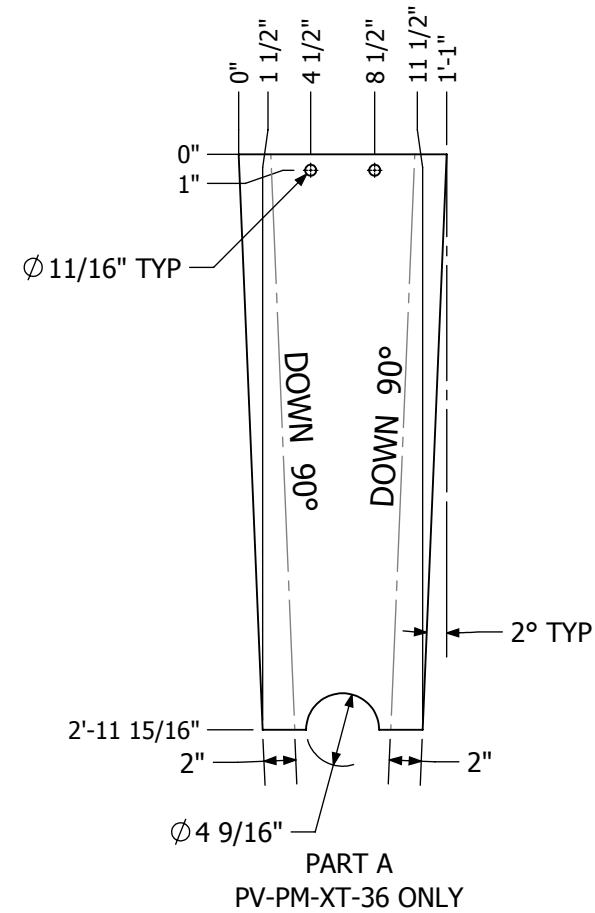
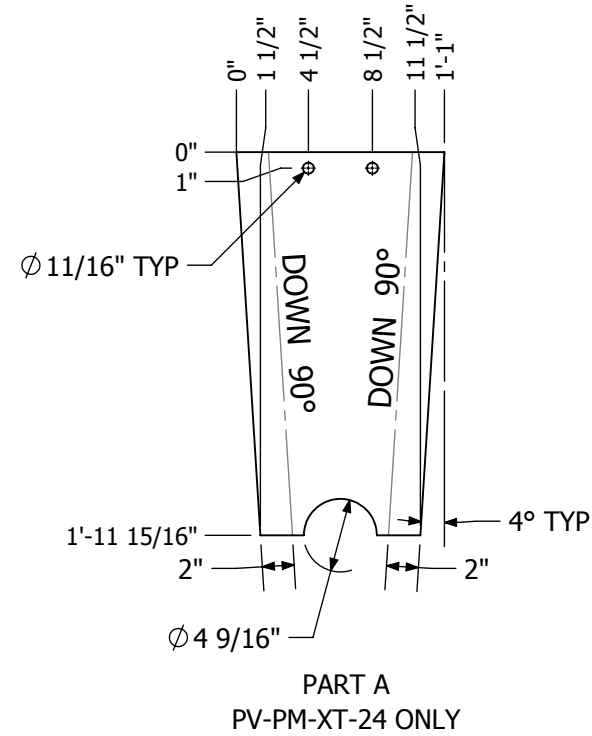
REVISION:

E-1

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PV-PM-XT



SCALE: 1:12

PART	SHAPE	LENGTH	GRADE	NOTES
A	PL 3/8		A36	BENT - BEND RADIUS 9/16"
B	Ø1 SR	3' 5 1/2"	A36	PV-PM-XT-24 ONLY
B	Ø1 SR	3' 11 7/16"	A36	PV-PM-XT-36 ONLY
C	NPS 4 SCH 40	5'3"	A500-C	



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REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHK	APD
5				SS	
4				AM	
3				DJN	
2					
1					
0	10/2/15	INITIAL RELEASE			

SITE INFORMATION:

DESIGN TYPE:

PIPE MOUNT
STANDOFF

SHEET TITLE:

ENGINEERING DETAIL

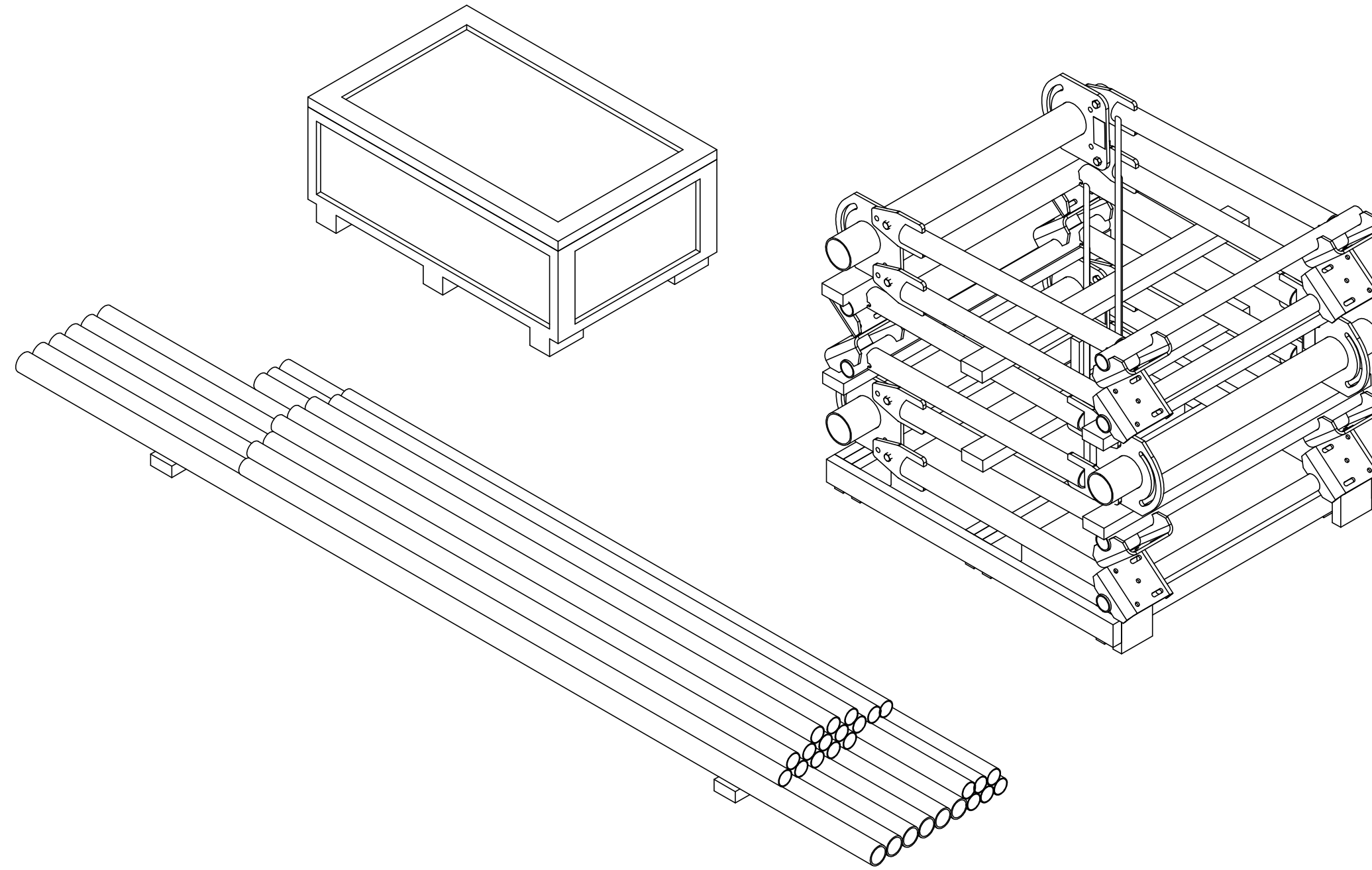
SHEET TITLE:

REVISION:

E-2

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REVISIONS				
REV.	ECN	DESCRIPTION	BY	DATE
A	8000015465	INITIAL RELEASE	DRR	08/03/16
B	8000015912	ADDED MCG2C BASE KITS	DRR	08/31/16
C	8000016253	ADDED DIAGONAL BRACES	DRR	01/17/17
D	8000024655	ADJUSTED WEIGHT OF MCG23PK AND ALL TOTALS	DRR	07/12/17
E	8000026272	UPDATE SERIES TABLE	RJC	09/26/17
F	8000026805	UPDATED TABLE WITH NEW PIPE BUNDLES	RJC	10/24/17



THREE SECTOR KIT SHOWN

PART NO.	DESCRIPTION	FRAME KIT	HARDWARE KIT	PIPE BUNDLE	TOTAL WEIGHT
MCG2C-10M-B	SINGLE SECTOR FRAME MONOPOLE KIT, 10' 8" FACE, NO ANTENNA HARDWARE	SFG2CPK	MCG2CHKB	SFG2CPB	1005.6 LBS
MCG2C-10M-B3	TRIPLE SECTOR FRAME MONOPOLE KIT, 10' 8" FACE, NO ANTENNA HARDWARE	SFG2CPK3	MCG2CHKB3	SFG2CPB3	1982.5 LBS
MCG2C-10M-12-96	TRIPLE SECTOR FRAME MONOPOLE KIT, 10' 8" FACE, (12) 96" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	MCG23HD10M12126SB	2415.4 LBS
MCG2C-10M-12-126	TRIPLE SECTOR FRAME MONOPOLE KIT, 10' 8" FACE, (12) 126" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	MCG23HD10M12126SB	2432.1 LBS
MCG2C-10M-15-96	TRIPLE SECTOR FRAME MONOPOLE KIT, 10' 8" FACE, (15) 96" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	SFG2CSB3	2484.6 LBS
MCG2C-10M-15-126	TRIPLE SECTOR FRAME MONOPOLE KIT, 10' 8" FACE, (15) 126" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	MCG2C10M15126PB	2382.9 LBS
MCG2C-12-B	SINGLE SECTOR FRAME MONOPOLE KIT, 12' 8" FACE, NO ANTENNA HARDWARE	SFG2CPK	MCG2CHKB	SFG2CPB	1003.8 LBS
MCG2C-12-B3	TRIPLE SECTOR FRAME MONOPOLE KIT, 12' 8" FACE, NO ANTENNA HARDWARE	SFG2CPK3	MCG2CHKB3	SFG2CPB3	1982.5 LBS
MCG2C-12M-12-96	TRIPLE SECTOR FRAME MONOPOLE KIT, 12' 8" FACE, (12) 96" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	MCG23HD12M12126SB	2484.6 LBS
MCG2C-12M-12-126	TRIPLE SECTOR FRAME MONOPOLE KIT, 12' 8" FACE, (12) 126" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	MCG23HD12M12126SB	2501.2 LBS
MCG2C-12M-15-96	TRIPLE SECTOR FRAME MONOPOLE KIT, 12' 8" FACE, (15) 96" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	SFG2CSB3	2484.6 LBS
MCG2C-12M-15-126	TRIPLE SECTOR FRAME MONOPOLE KIT, 12' 8" FACE, (15) 126" ANTENNA PIPES	SFG2CPK3	MCG2CHK3	MCG2C12M15126PB	2426.5 LBS

COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES: 0 PLACE $X \pm .25$ 2 PLACE $.XX \pm .06$
1 PLACE $.X \pm .12$ ANGLES $\pm 2^\circ$

SAP MATERIAL MASTER: **MCG2C Series**

FINISH: **GALV A123** MATERIAL: **A36, A500**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS INTERPRET PER ISO STANDARDS HANDBOOK TECHNICAL DRAWINGS VOLUMES 1 & 2, THIRD EDITION (2002)	NAME	DATE	TITLE				
	CE DRR	07/03/16	MCG2C SERIES DRAWING				
	RW						
	AD		SCALE	DOCUMENT NO.			
	RE TP	07/03/16	1:16	MCG2C Series			
ECN 8000015465		SIZE	WORK AREA	MODEL	DRAWING	SHEET	
C		VERSION	STATUS	REVISION	VERSION	STATUS	REVISION
							F

1 OF 6

1.0 ALL METRIC DIMENSIONS ARE IN BRACKETS.
2.0 FITS MONOPOLES 12"-50" OD.

DENSITY	0.12	lbs/in ³
MASS	--	lbs
VOLUME	6010.20	in ³
SURFACE AREA		in ²
HEIGHT		
LENGTH		
WIDTH		

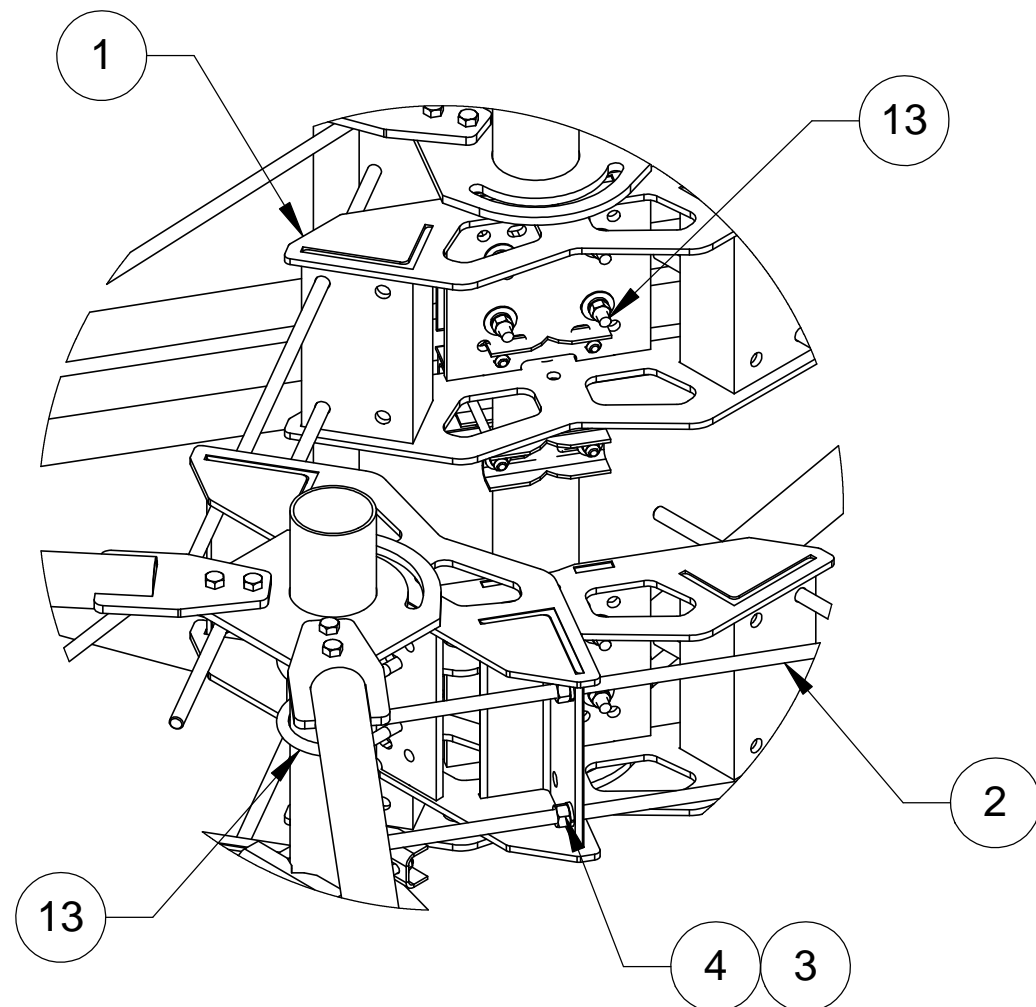
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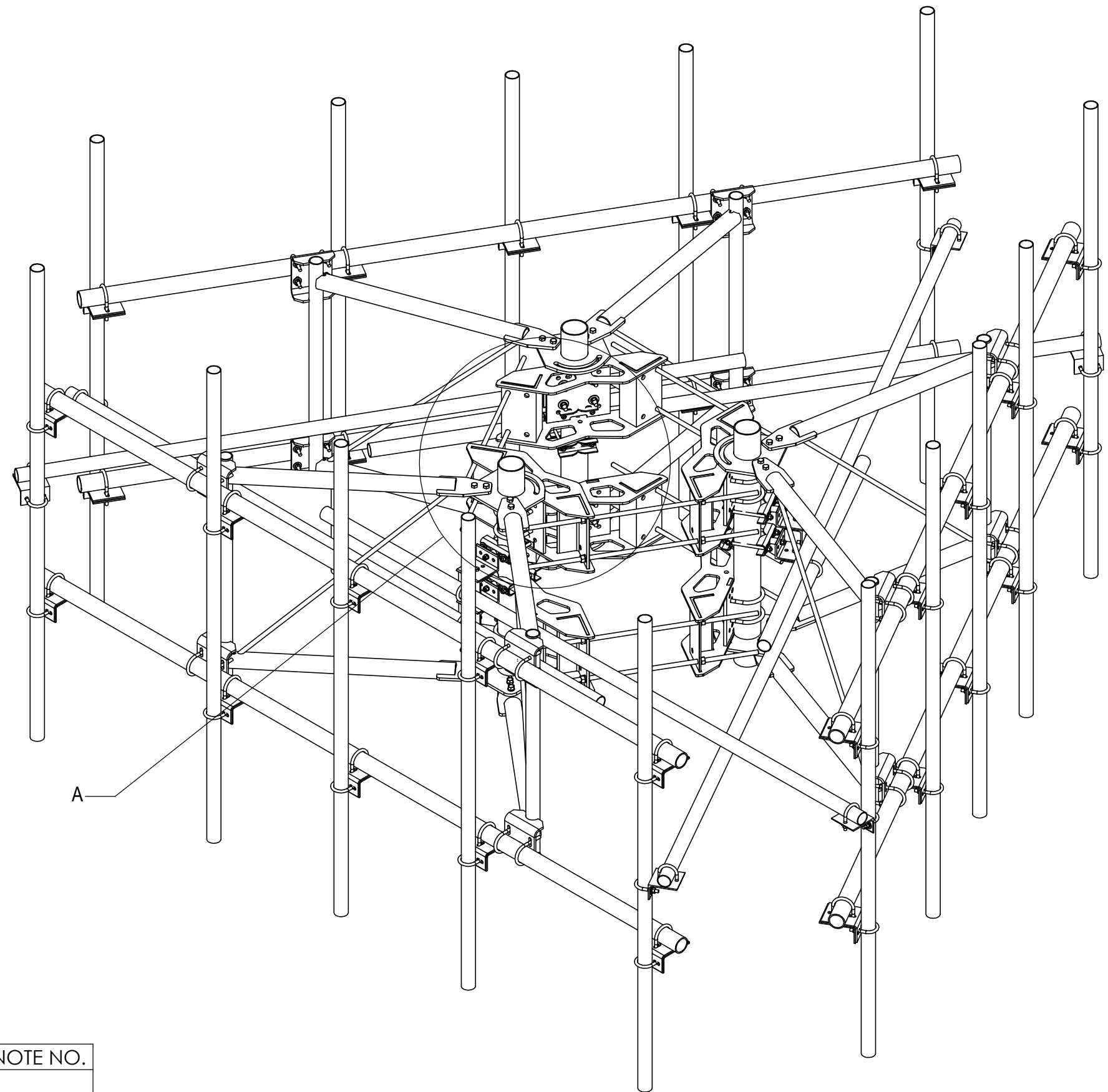
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NOTES:



DETAIL A
SCALE 1 : 10



ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT	NOTE NO.
1	RM1550301	15"-50" 3 SECTOR RM WLDMNT	6	66.12 LBS	
2	MT38440	3/4" X 40" GALV THREADED ROD GRADE B7	12	4.98 LBS	
3	GWL-06	3/4" GALV LOCK WASHER	24	0.04 LBS	
4	GN-06	3/4" GALV HEX NUT	24	0.15 LBS	
5	GUB-4240	1/2" X 2-1/2" X 4" GALV U-BOLT	16	0.56 LBS	
6	XA2020.01	CROSS OVER ANGLE	6	2.65 LBS	
7	OS15034	3/4" X 1-1/2" OFFSET COLLAR	2	0.14 LBS	
8	SAB01	FORMED CLAMP	4	1.35 LBS	
9	MT-379-8	1/2" X 8" GALV THREADED ROD	4	0.44 LBS	
10	GWL-04	1/2" GALV LOCK WASHER	8	0.01 LBS	
11	GN-04	1/2" GALV HEX NUT	8	0.04 LBS	
12	GWF-04	1/2" GALV FLAT WASHER	8	0.03 LBS	
13	GUB-5456	5/8" X 4-5/8" X 6 1/2" GALV U-BOLT	4	1.42 LBS	
14	XAU01	Angle BRK	20	3.28 LBS	
15	GUB-4352	1/2" X 3" X 5-1/4" GALV U-BOLT	18	0.71 LBS	
16	GB-05225	5/8" X 2-1/4" GALV BOLT KIT	4	0.28 LBS	
17	GB-04125	1/2" X 1-1/4" GALV BOLT KIT	2	0.12 LBS	
18	GB-04265	1/2" X 2-3/4" GALV BOLT KIT	2	0.20 LBS	

COMMSCOPE, INC. OF NORTH CAROLINA				
TITLE MCG2C SERIES DRAWING				
SIZE C	SCALE 1:20	DOCUMENT NO. MCG2C Series		
DRAWING		VERSION	STATUS	SHEET 2 OF 6
			F	

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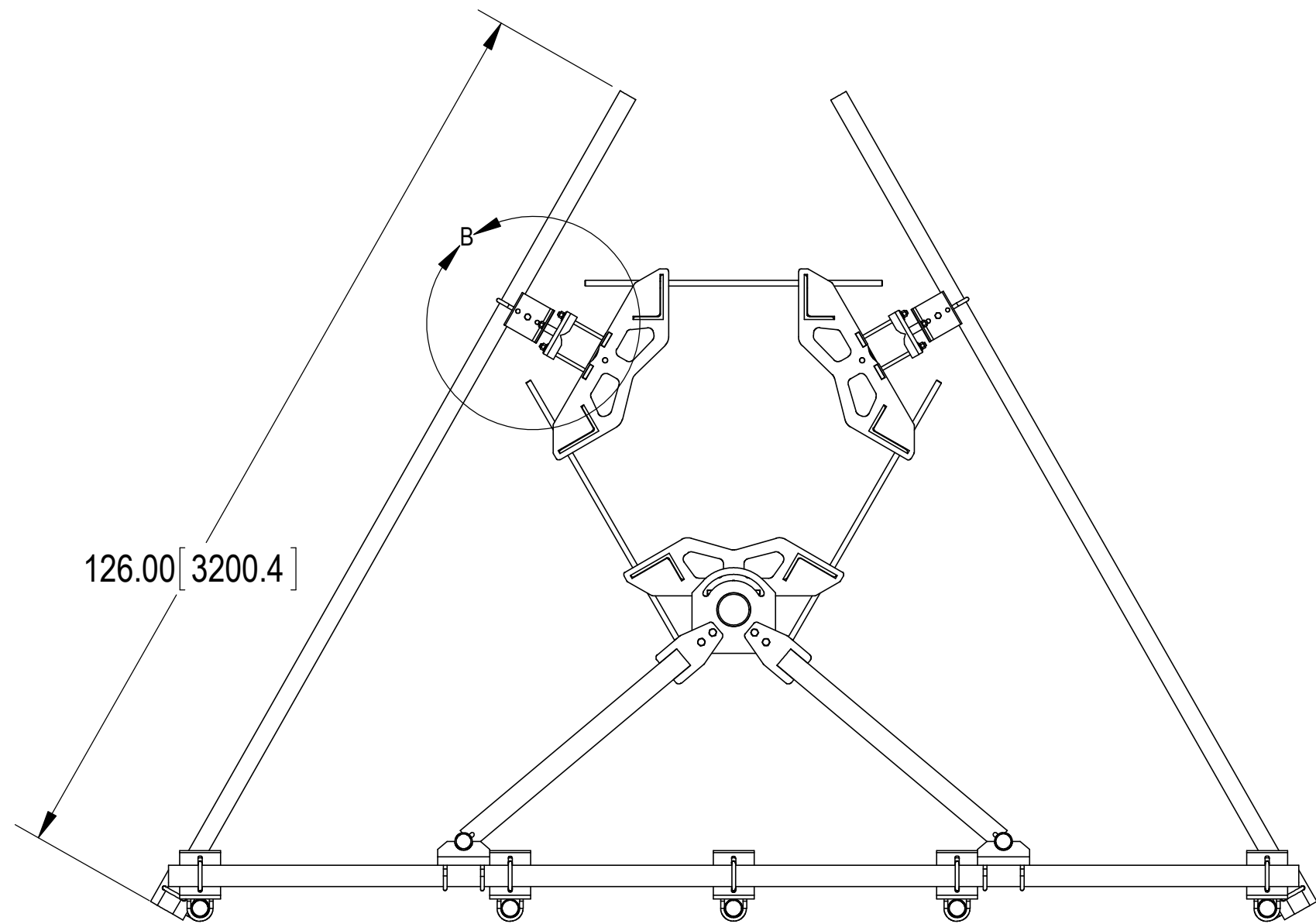
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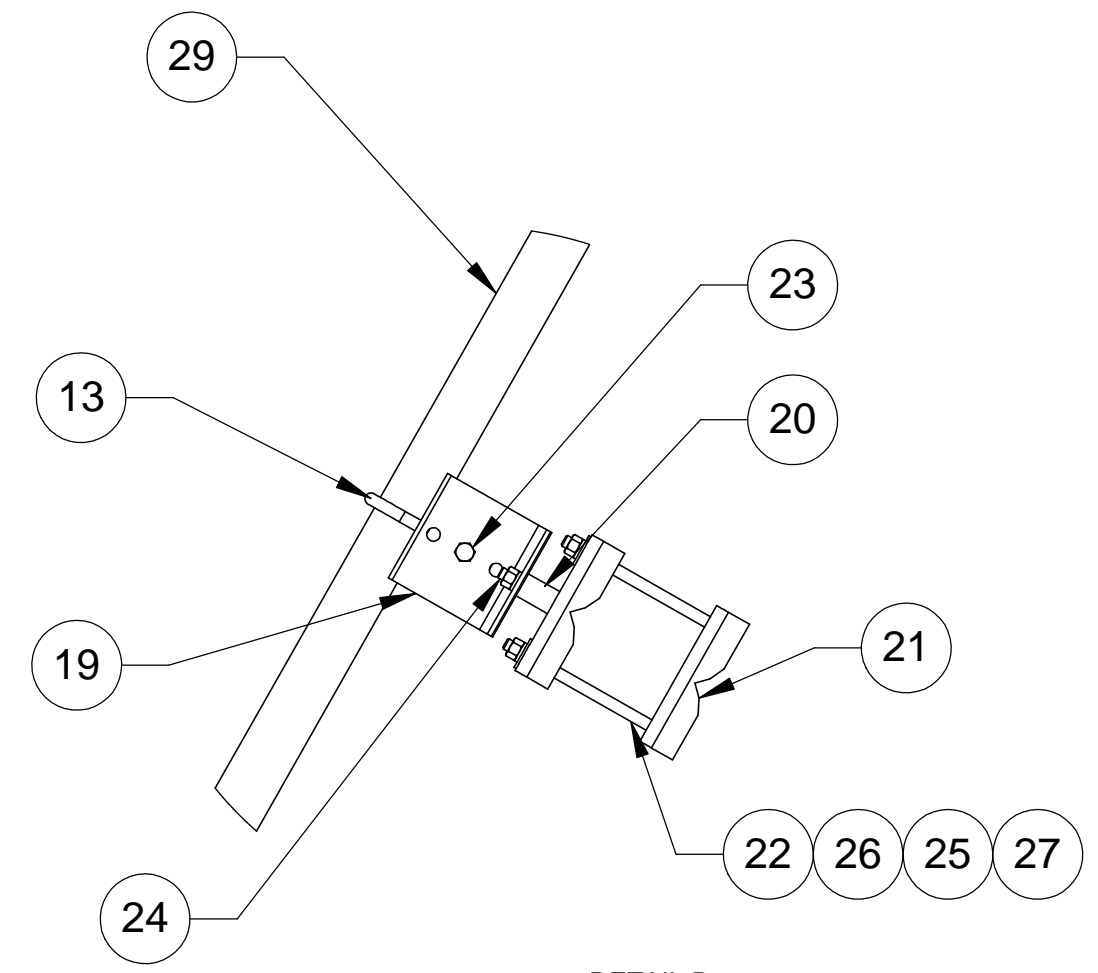
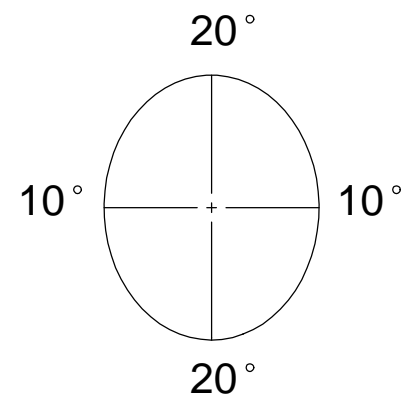
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NOTES:

1.0 ALL METRIC DIMENSIONS ARE IN BRACKETS.

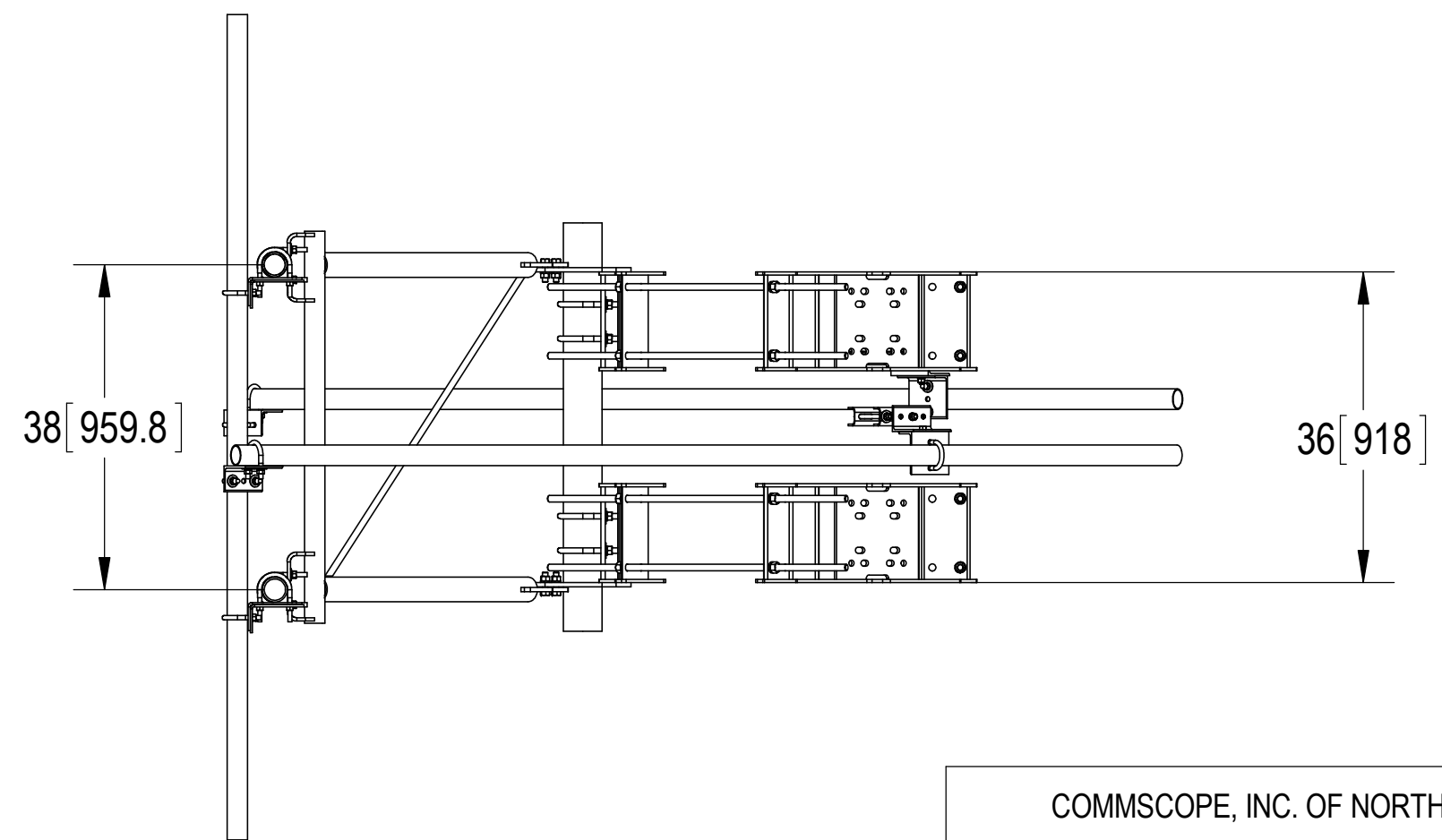
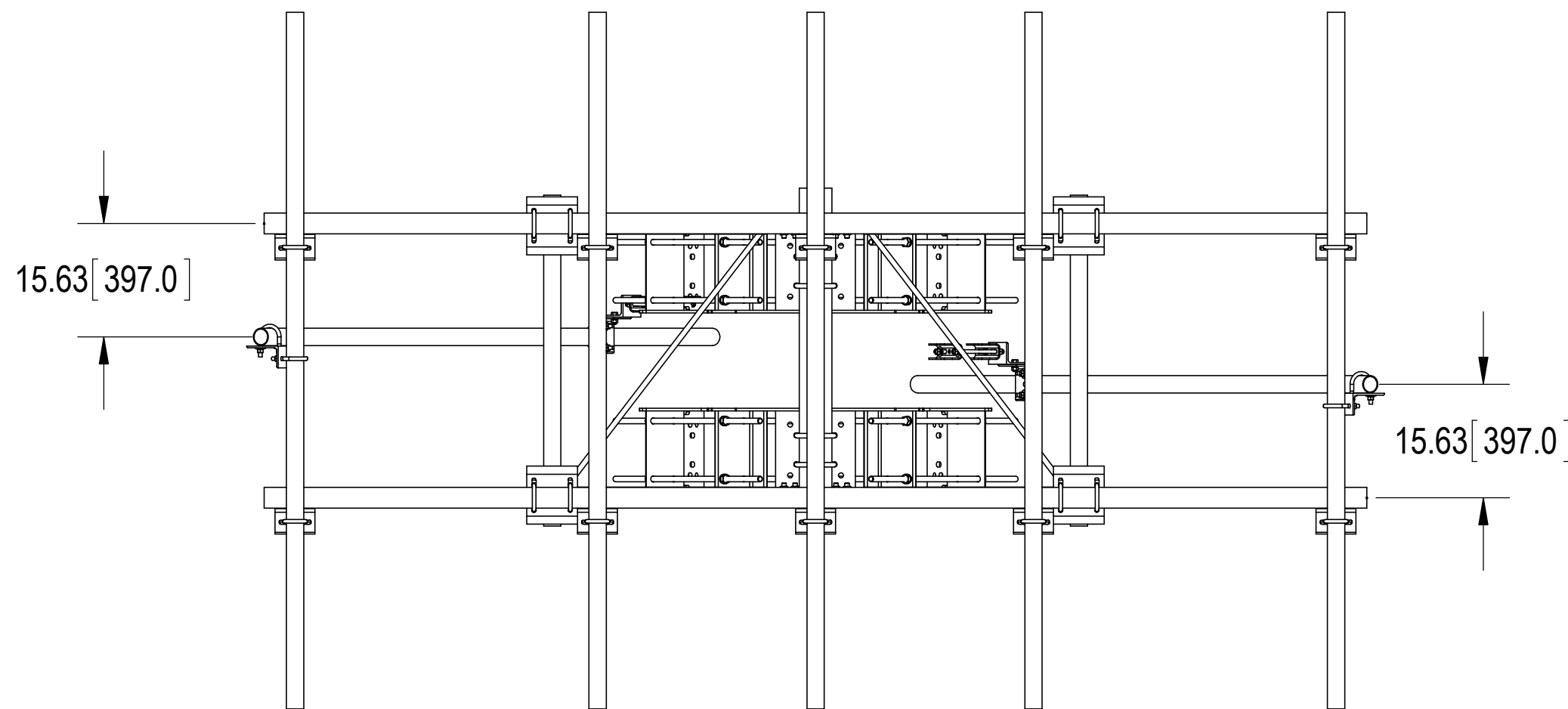


ALLOWABLE TIEBACK ANGLE



DETAIL B
SCALE 1:8

SOME ITEMS OMITTED FOR CLARITY



DIAGONALS MUST BE INSTALLED AS SHOWN

COMMSCOPE, INC. OF NORTH CAROLINA

TITLE				
MCG2C SERIES DRAWING				
SIZE	SCALE	DOCUMENT NO.		
C	1:20	MCG2C Series		
		DRAWING		SHEET
		VERSION	STATUS	REVISION
				F
				3 OF 6

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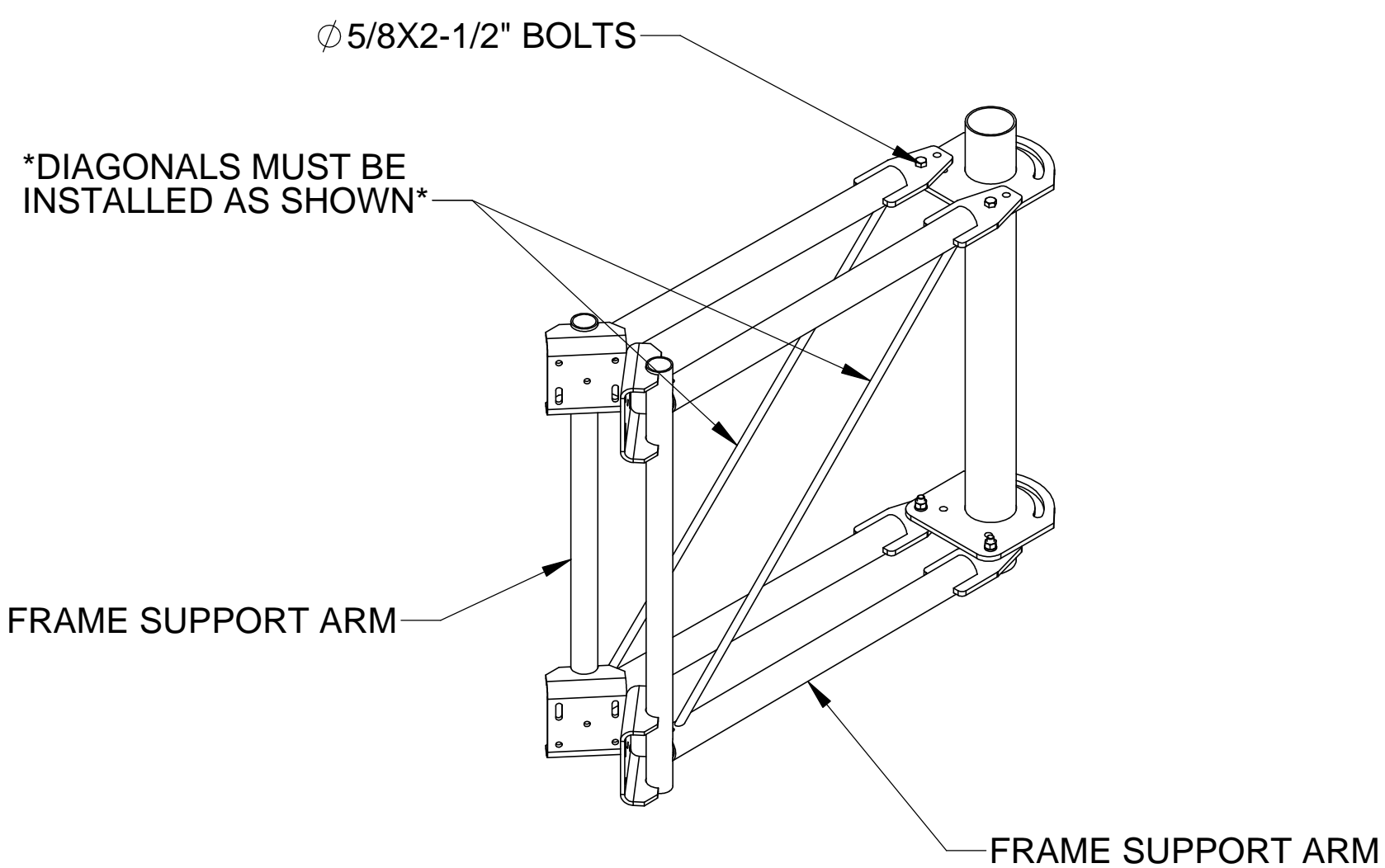
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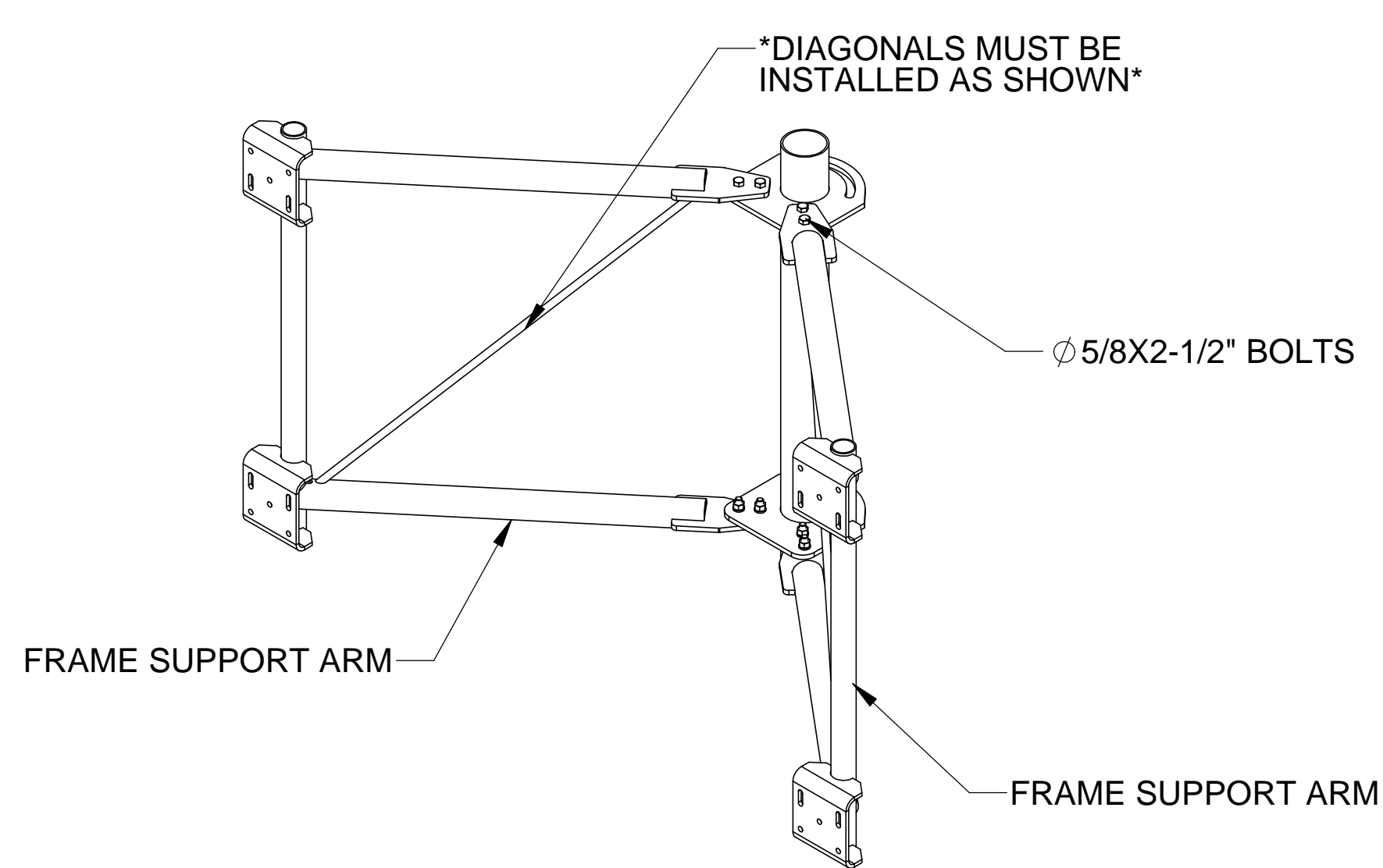
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STEP 1: LOOSEN ϕ 5/8 HARDWARE TO OPEN FRAME SUPPORT ARMS.



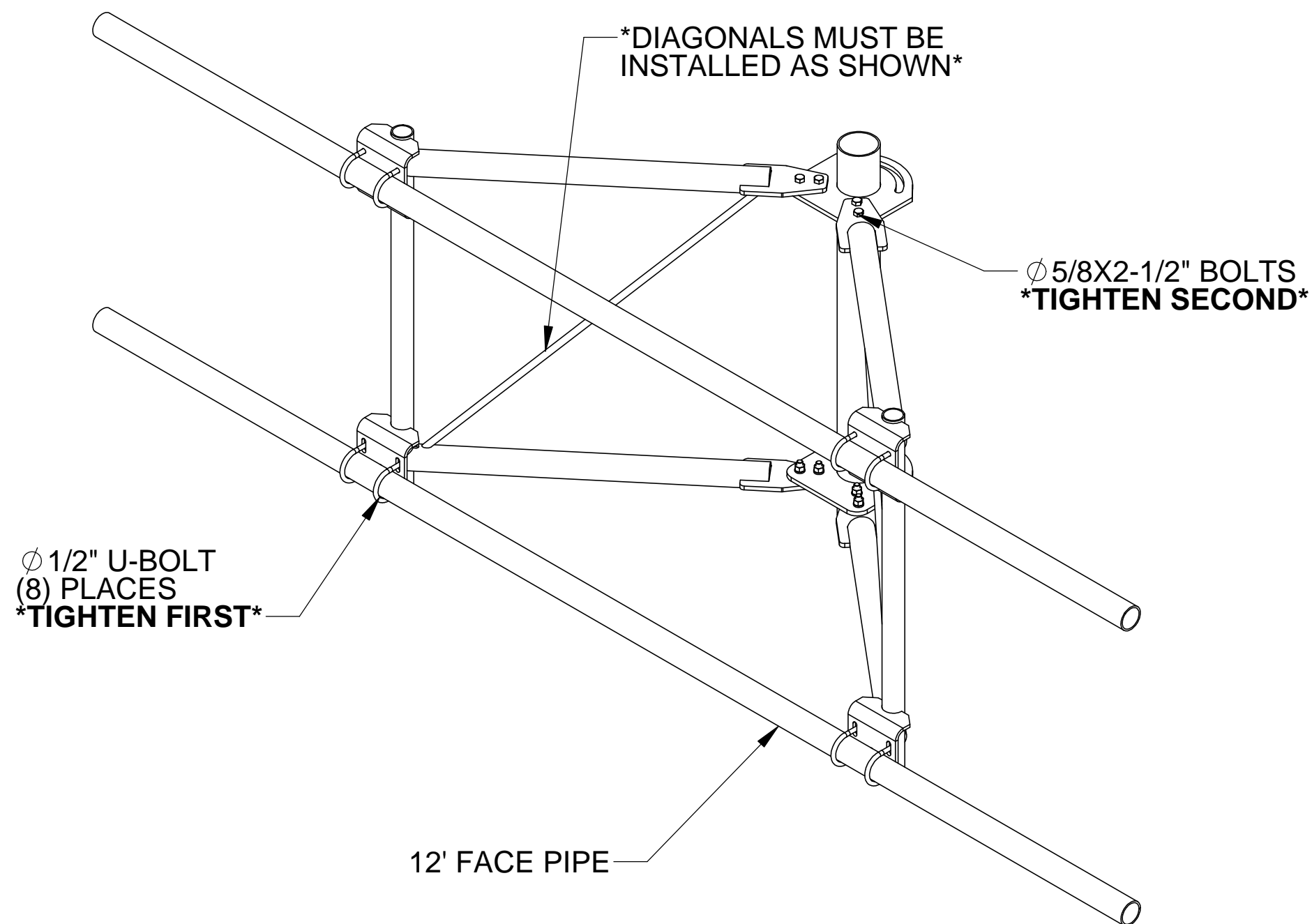
STEP 2: OPEN FRAME SUPPORT ARMS AND INSTALL (4) ϕ 5/8 X 2-1/4\"

***DO NOT TIGHTEN ϕ 5/8\"**

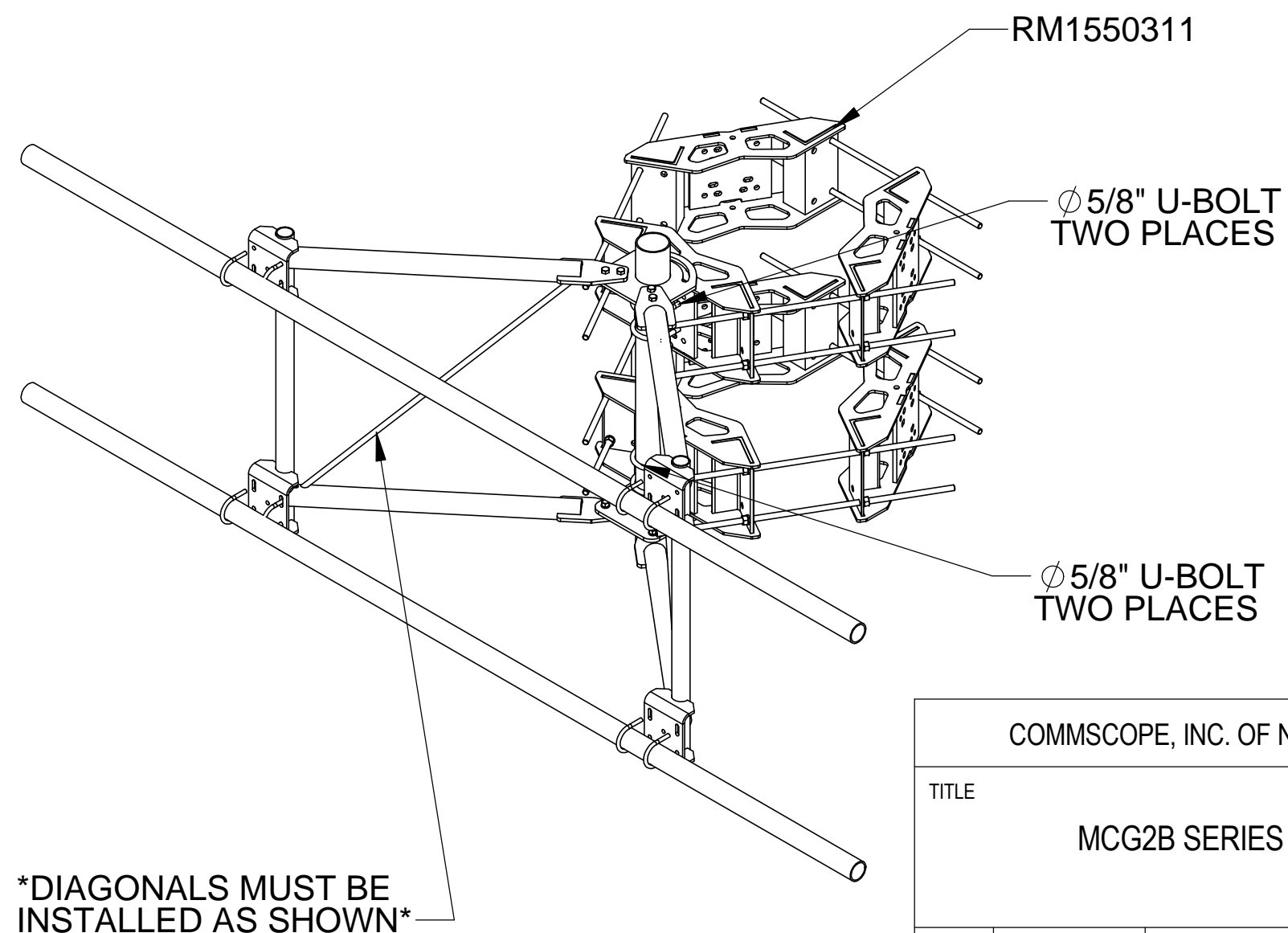


STEP 3: INSTALL FACE PIPES AND ϕ 1/2\"

***TIGHTEN U-BOLTS FIRST AND ϕ 5/8\"**

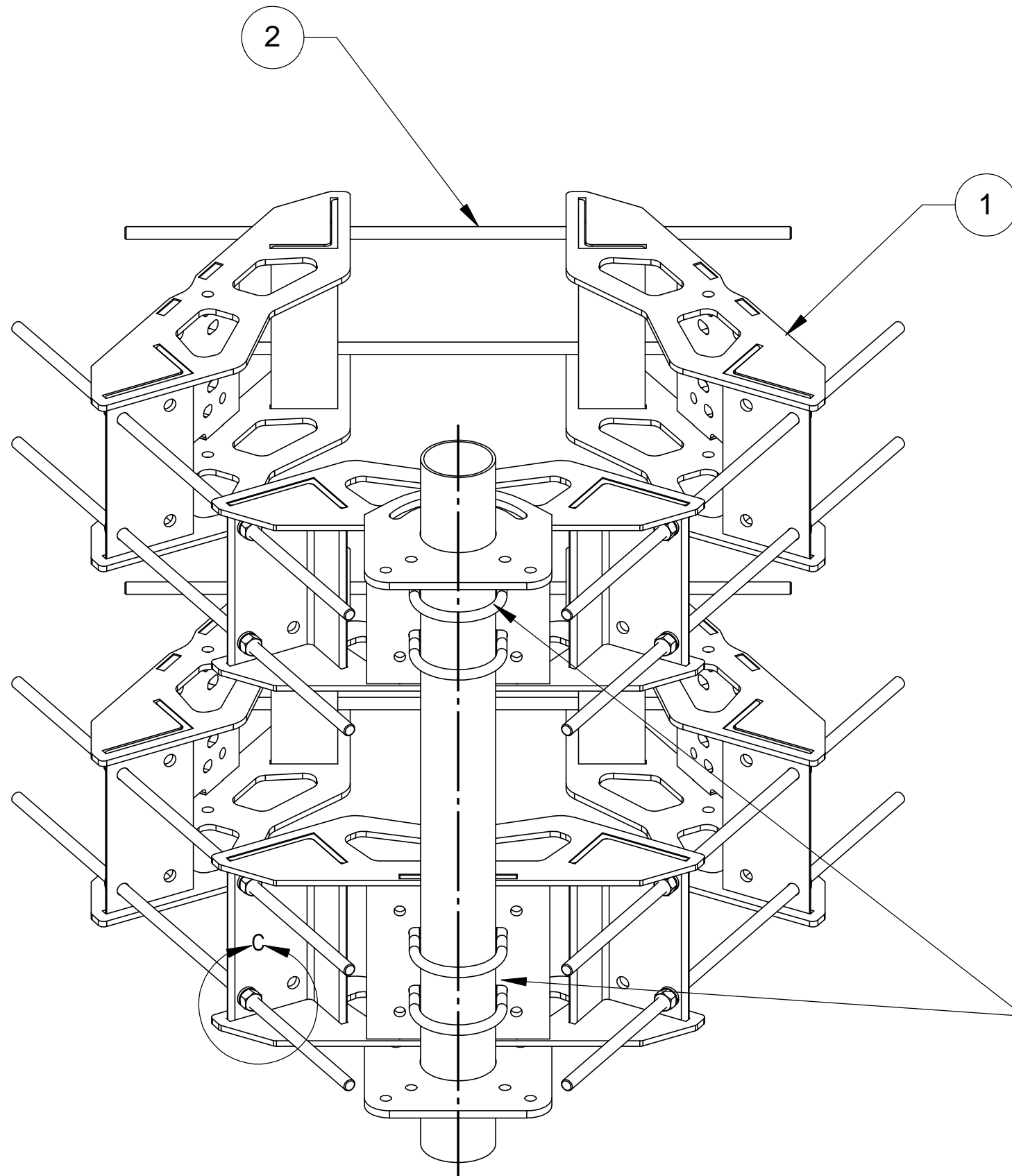


STEP 4: ASSEMBLE FRAME(S) TO RINGMOUNT

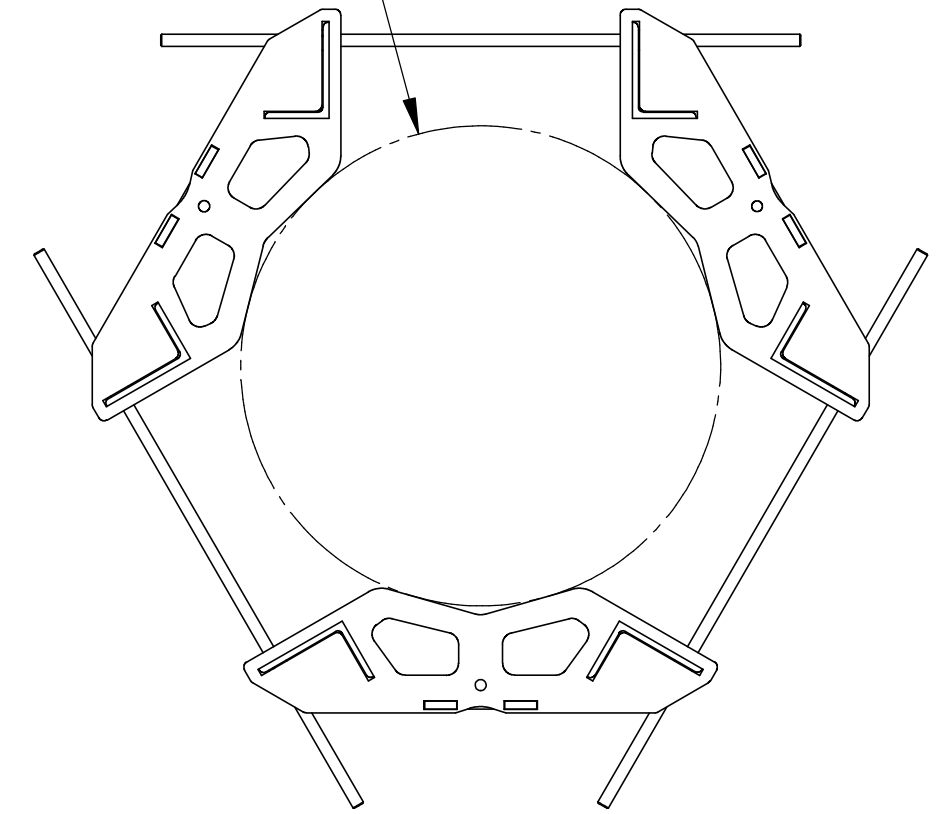


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DRAWING		VERSION	STATUS	REVISION
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				SHEET 4 OF 6

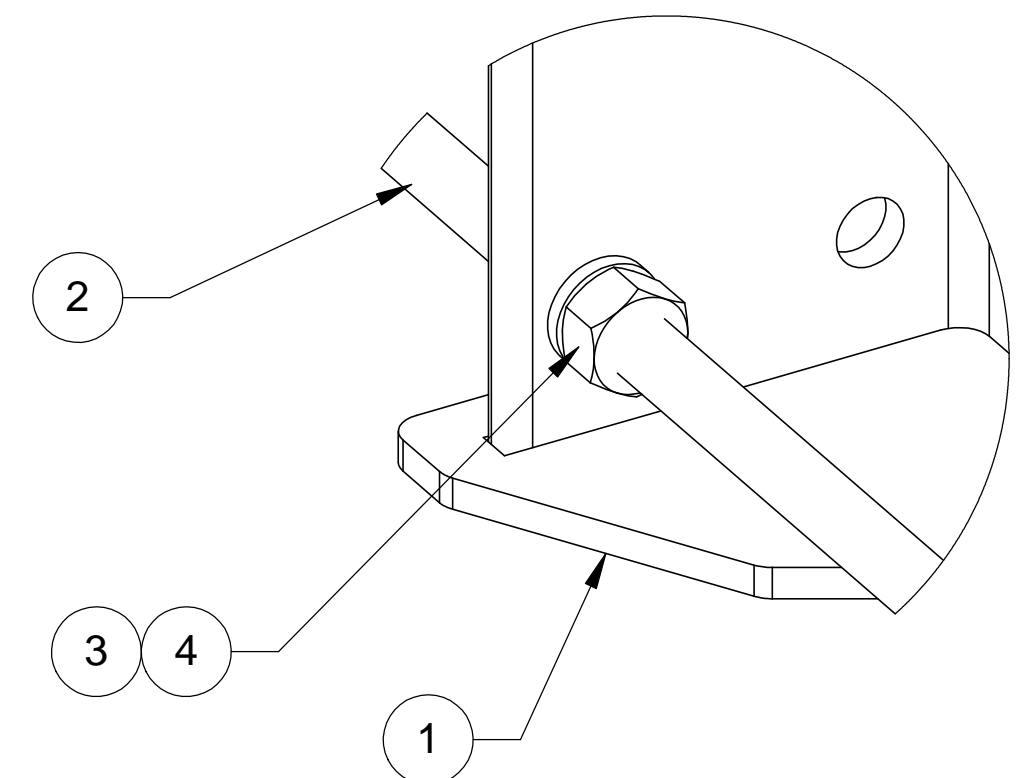
NOTES:



FITS MONOPOLES ϕ 50 [1270.00]
15 [381.00]



RINGMOUNT SECTOR CENTERLINE
MUST VERTICALLY ALIGN TO ALLOW
SECTOR FRAME SPINE PROPER MOUNTING



DETAIL C
SCALE 1:2

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT	NOTE NO.
1	RM1550301	15"-50" 3 SECTOR RM WLDMNT	6	66.12 LBS	
2	MT38440	3/4" X 40" GALV THREADED ROD GRADE B7	12	4.98 LBS	
3	GWL-06	3/4" GALV LOCK WASHER	24	0.04 LBS	
4	GN-06	3/4" GALV HEX NUT	24	0.15 LBS	
10	SFG2367L	SECTOR FRAME ARM LEFT WELDMENT	1	81.38 LBS	
11	SFG2367R	SECTOR FRAME ARM RIGHT WELDMENT	1	81.38 LBS	

COMMSCOPE, INC. OF NORTH CAROLINA				
TITLE MCG2C SERIES DRAWING				
SIZE C	SCALE 1:8	DOCUMENT NO. MCG2C Series		
DRAWING		VERSION	STATUS	REVISION
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				SHEET 5 OF 6

4

3

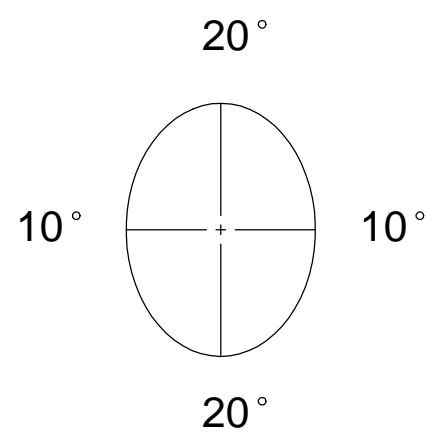
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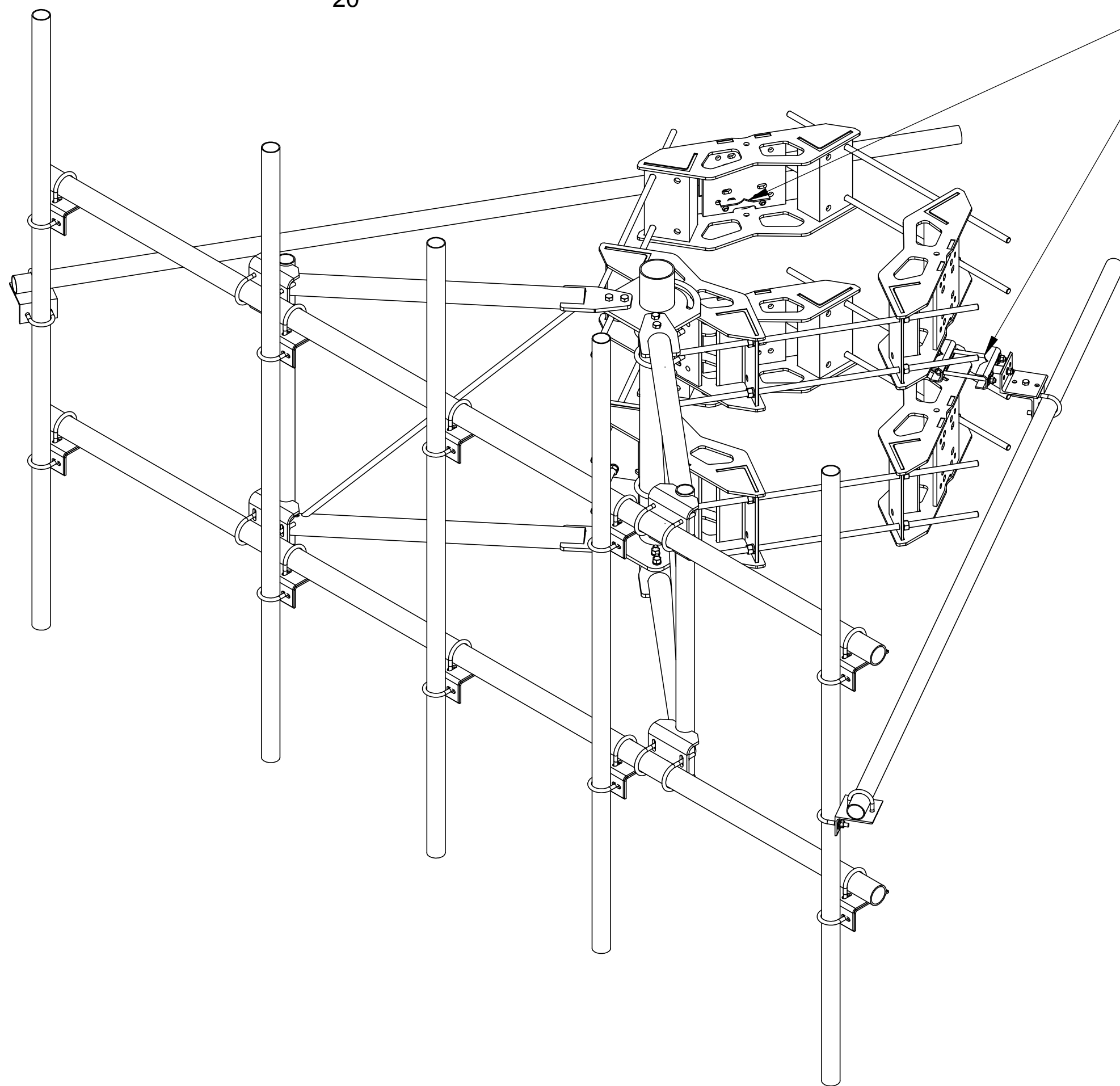
NOTES:

ALLOWABLE TIEBACK ANGLE

±20 DEGREES VERTICAL
±10 DEGREES HORIZONTAL



TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED IN THE TIEBACK ANGLE RANGE DETAIL, UNLESS APPROVED BY THE ENGINEER OF RECORD.



DIAGONALS MUST BE INSTALLED AS SHOWN

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TITLE MCG2C SERIES DRAWING				
SIZE C	SCALE 1:14	DOCUMENT NO. MCG2C SERIES		
DRAWING		VERSION	STATUS	REVISION
				F
				SHEET 6 OF 6

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1