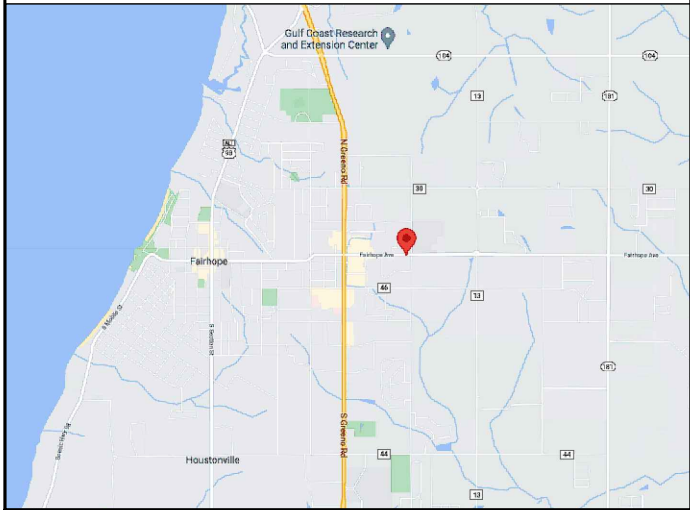
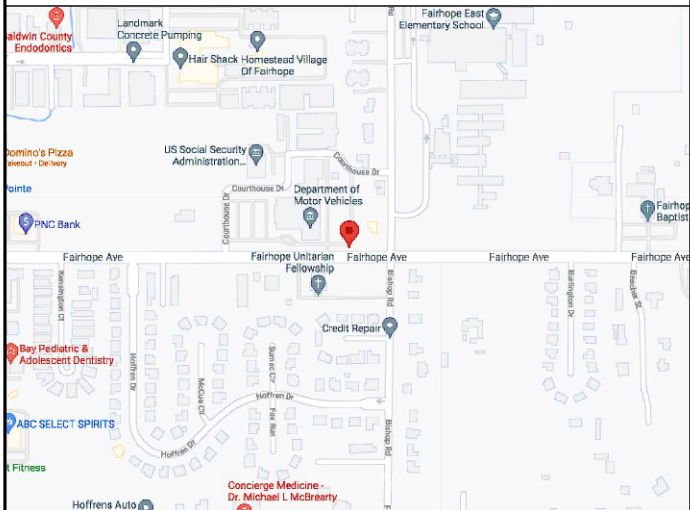


LOCATION MAP



VICINITY MAP



SCOPE OF WORK

INSTALL AT&T CRAN EQUIPMENT ON A NEW METAL UTILITY POLE.

DEPARTMENT	NAME / SIGNATURE	DATE
STRUCTURE OWNER		
AT&T PM		
AT&T EE		
AT&T RF		
ANSCO PM		
ANSCO CM		

POLYGON NAME:

AMOES

STRUCTURE NUMBER:

33

FA LOCATION CODE:

14833068

PTN:

2651A0L3S1

PAGE ID:

MRALM034206

PREPARED FOR:



AT&T

PROJECT MANAGER:



ANSCO & ASSOCIATES, LLC.
SPECIALIZED TELECOMMUNICATIONS SERVICES

PREPARED BY:



1000 HOLCOMB WOODS PKWY
SUITE 210
ROSWELL, GA 30076
678-280-2325

PROJECT INFORMATION

ADDRESS: ADJ 8477 FAIRHOPE AVE
FAIRHOPE, AL 36532

LATITUDE: 30.523796°

LONGITUDE: -87.878251°

JURISDICTION: BALDWIN COUNTY

ZONING: PUD

STRUCTURE OWNER: CITY OF FAIRHOPE

APPLICANT: AT&T

1876 DATA DRIVE
HOOVER, AL 35244

PROJECT MANAGER: ANSCO & ASSOCIATES, LLC
5250 TRIANGLE PKWY NW
NORCROSS, GA 30092

ENGINEER: PM&A
1001 HOLCOMB WOODS PKWY STE. 210
ROSWELL, GA 30077
PATRICK MARSHALL, P.E.
678-280-2326

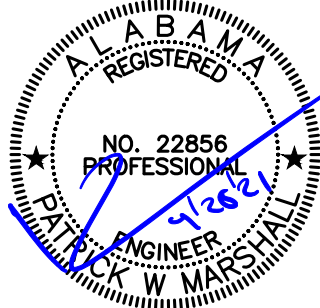
DRAWING INDEX

- T-1 TITLE SHEET & PROJECT INFORMATION
- C-1 PROPOSED SITE PLAN
- C-2 POLE ELEVATIONS & DETAILS
- C-3 EQUIPMENT SPECIFICATIONS
- C-4 EQUIPMENT SPECIFICATIONS
- C-5 GROUNDING DETAILS



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PREPARED FOR:



PREPARED BY:



POLYGON NAME:

AMOES

STRUCTURE NUMBER:

33

STRUCTURE OWNER:

CITY OF
FAIRHOPE

STRUCTURE ADDRESS:

ADJ 8477 FAIRHOPE
AVE

STRUCTURE COORDINATES:

LAT: 30.523796°

LONG: -87.878251°

DESIGN REVISIONS:

NO.	DATE	REVISIONS
1	4/26/21	REVISED LOCATION & EQUIPMENT
0	2/14/11	ISSUED FOR CONSTRUCTION

PREPARED BY:

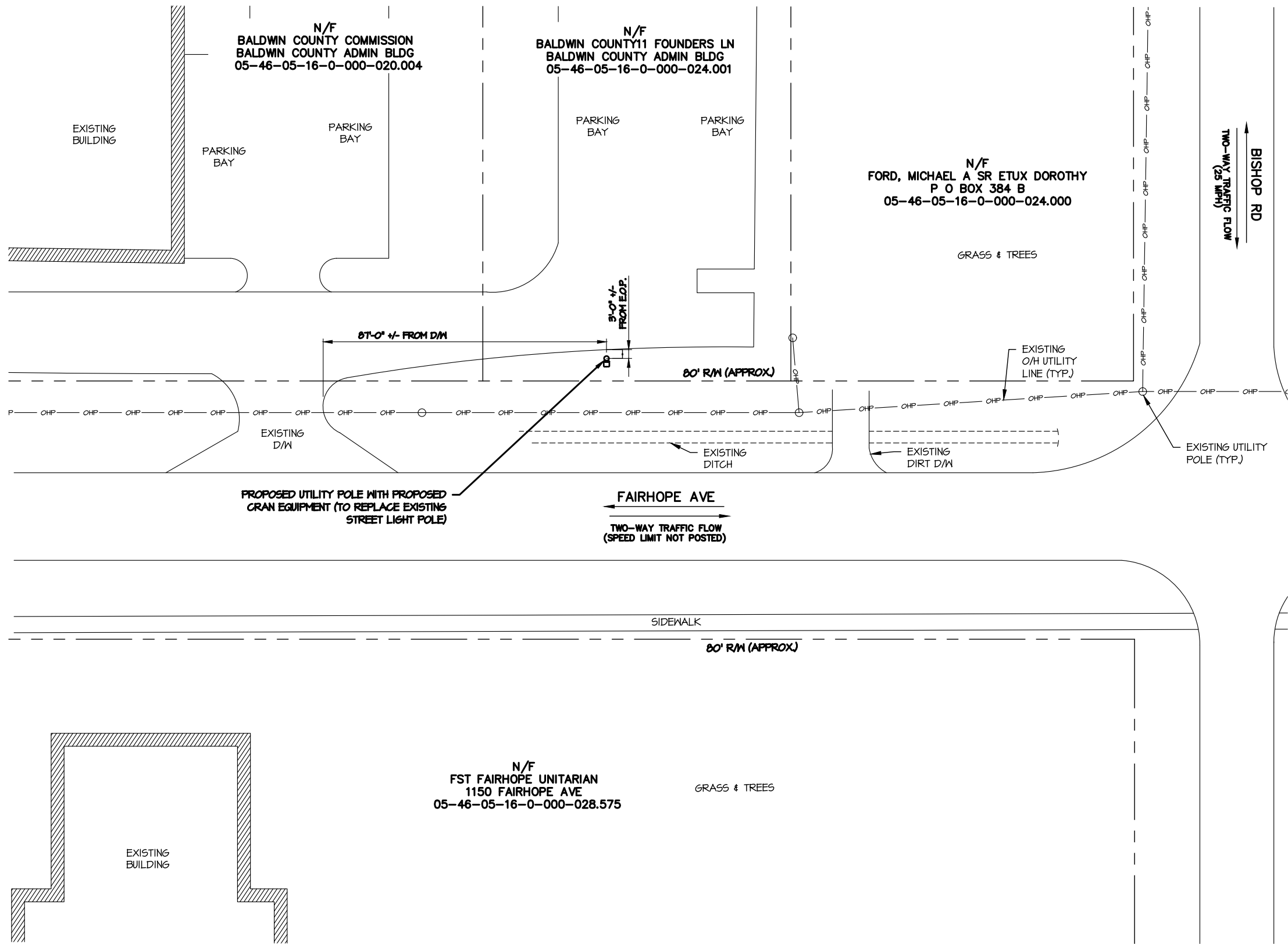
APPROVED BY: P. MARSHALL
DESIGNED BY: A. RABENDA
DRAWN BY: A. RABENDA
PROJECT #: ACA19-077

SHEET NAME:

TITLE SHEET & PROJECT
INFORMATION

SHEET NUMBER:

T-1



- NOTE:**
- SITE PLAN DEVELOPED FROM AERIAL PHOTO. CONTRACTOR TO VERIFY FIELD CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTION.
 - ROW INFORMATION SHOWN IS BASED ON JURISDICTION'S GIS DATA.
 - CONTRACTOR MUST RESTORE ALL DISTURBED SURFACES AFFECTED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS.
 - CONTRACTOR WILL CALL 811 FOR UNDERGROUND LOCATES PRIOR TO EXCAVATION

UTILITY LEGEND:

— W —	WATERLINE
— G —	GAS LINE
— P —	BURIED POWER
— TC —	BURIED TRAFFIC CA
— TV —	BURIED CATV
— T —	BURIED TELCO / FIBER



POLYGON NAME
AMOE

STRUCTURE NUMBER
33

STRUCTURE OWNER
CITY OF FAIRHOPE

STRUCTURE ADDRESS
ADJ 8477 FAIRHOPE AVE

STRUCTURE COORDINATES
LAT: **30.523796°**
LONG: **-87.878251°**

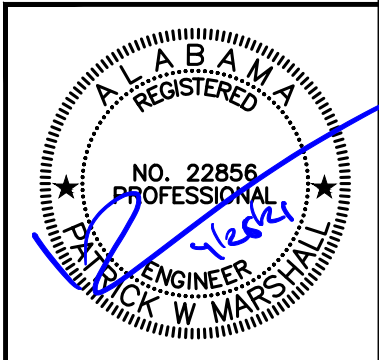
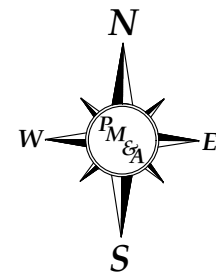
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0	2/19/11	ISSUED FOR CONSTRUCTION

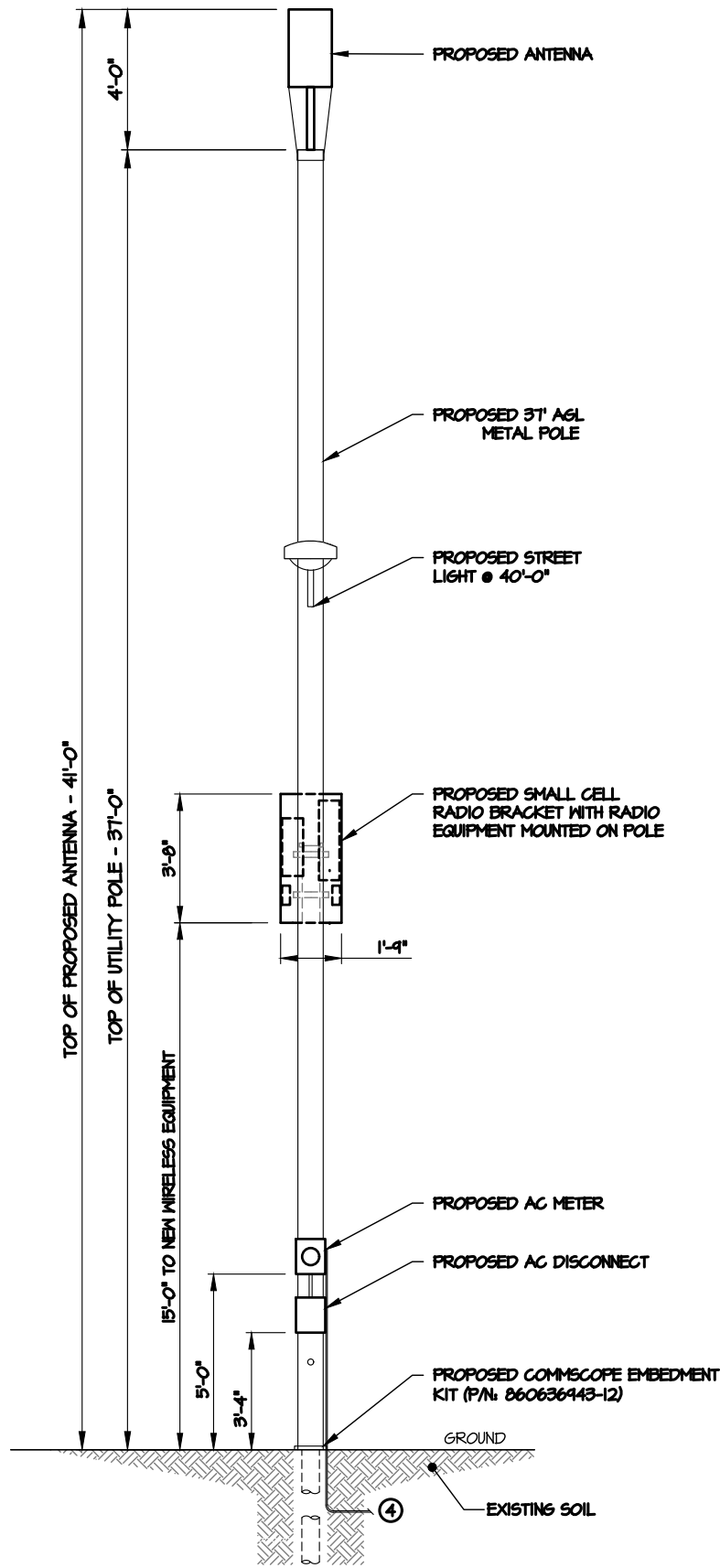
PREPARED BY:
APPROVED BY: **P. MARSHALL**
DESIGNED BY: **A. RABENDA**
DRAWN BY: **A. RABENDA**
PROJECT #: **ACA19-077**

SHEET NAME
PROPOSED SITE PLAN

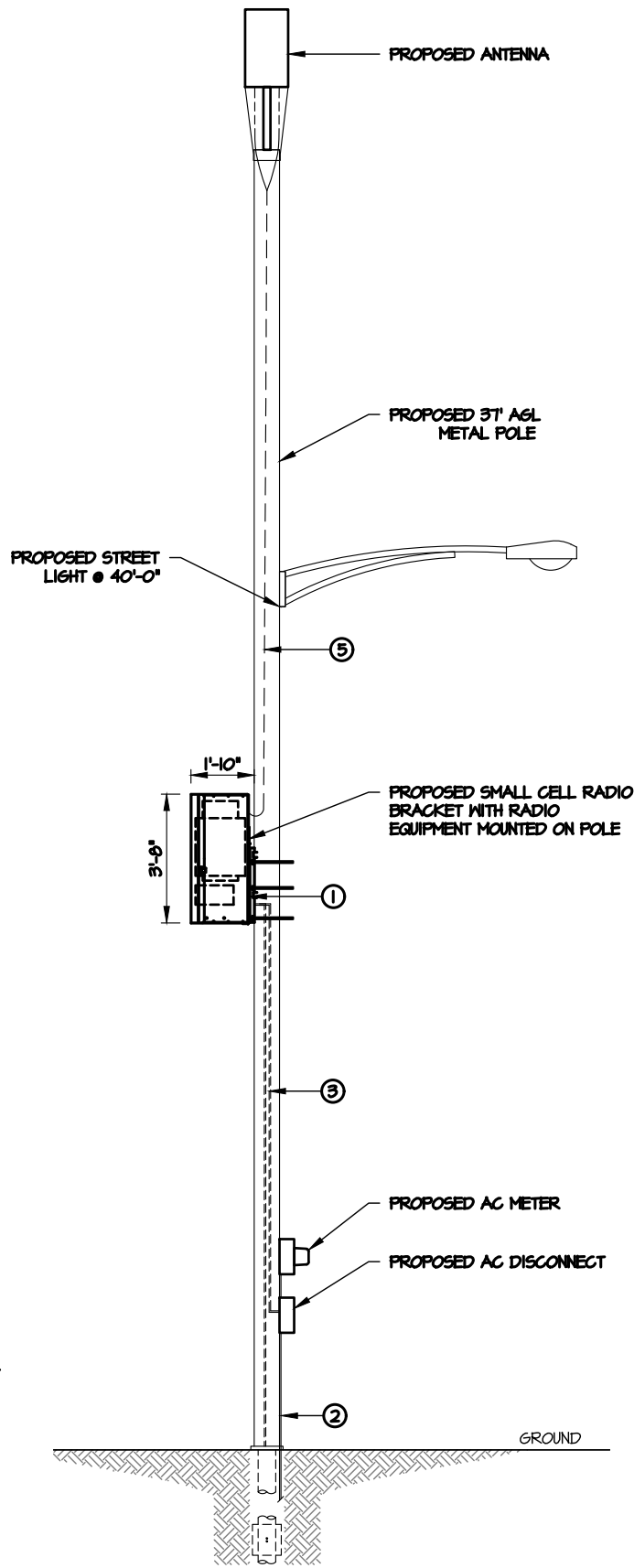
SHEET NUMBER
C-1



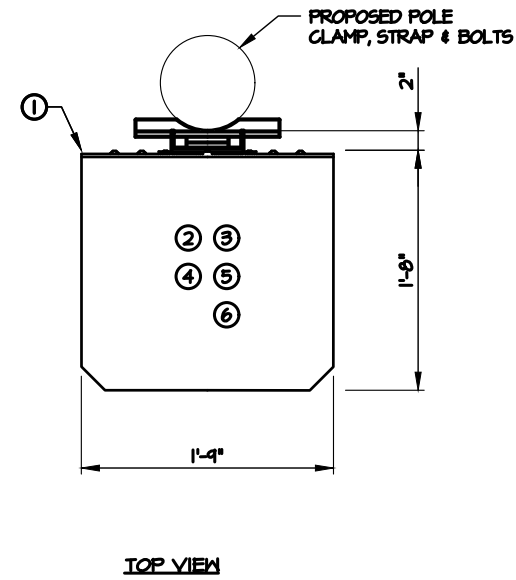
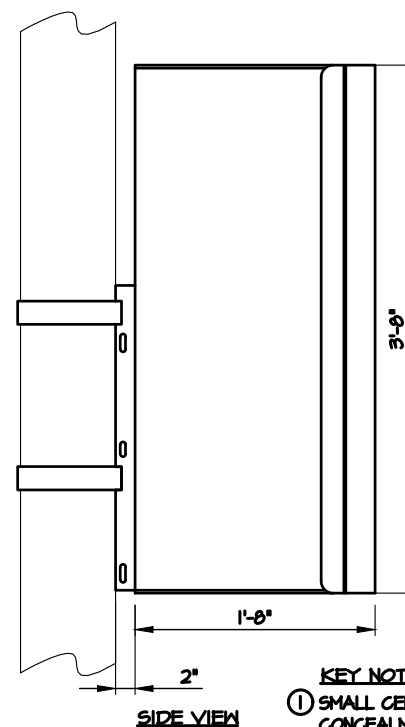
PROPOSED SITE PLAN
NOT TO SCALE



POLE ELEVATION (FRONT)
NOT TO SCALE



POLE ELEVATION (LEFT SIDE)
NOT TO SCALE



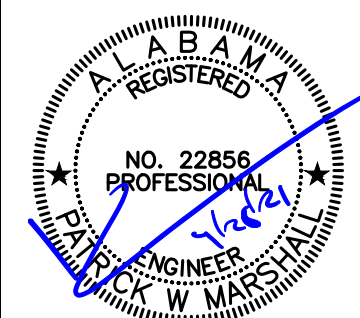
- KEY NOTES**
- ① SMALL CELL COMMSCOPE SSC-160231600 MICRO RADIO CONCEALMENT ENCLOSURE (21"W X 44"H X 20"D / 110 LBS)
 - ② ERICSSON 4449 (TYP 1) (13.19"W X 17.9"H X 9.44"D)
 - ③ ERICSSON 4415 (TYP 1) (13.19"W X 14.96"H X 5.39"D / 46 LBS)
 - ④ ERICSSON PSU AC 02 (TYP 1) (12.99"W X 2.68"H X 7.04"D / 11.64 LBS)
 - ⑤ ERICSSON PSU AC 08 (TYP 1) (10.79"W X 2.72"H X 7.09"D / 11.46 LBS)
 - ⑥ AC LOAD CENTER (TYP 1) (10.43"W X 9.38"H X 6.94"D / 7.00 LBS)

OVERALL DIMENSIONS: 1'-5 1/2" X 1'-11" X 1'-7 1/2"
OVERALL WEIGHT: 236.1 LBS

CRAN ENCLOSURE CONFIGURATION
SCALE: 1" = 2'-0"

- KEY NOTES**
- ① PROPOSED RAYCAP AC LOAD CENTER INSTALLED WITHIN RADIO ENCLOSURE
 - ② 1/2" UV RESISTANT SCH. 80 PVC CONDUIT FOR AC POWER SERVICE TO METER & DISCONNECT.
 - ③ 3/4" NON-METALLIC FLEX CONDUIT FOR AC SERVICE FROM DISCONNECT TO RRUs (TYP.).
 - ④ 2-1/2" UV RESISTANT SCH. 80 PVC CONDUIT FOR ALL COMMUNICATION CABLES. THE RISER SHALL HAVE A MINIMUM OF 2" SEPARATION FROM ANY THRU BOLT, METALLIC HARDWARE OR ELECTRICAL CONDUCTOR.

- NOTES:**
- FIBER TRANSPORT DELIVERY CABLE WILL BE BURIED TO THE POLE BY OTHERS AND ROUTED EXTERNALLY ALONG THE POLE.
 - POWER TRANSPORT DELIVERY CABLE WILL BE BURIED TO THE POLE BY OTHERS AND ROUTED EXTERNALLY ALONG THE POLE.
 - CONTRACTOR WILL COORDINATE POWER AND FIBER SERVICE REQUIREMENTS AND INSTALLATIONS WITH UTILITY COMPANIES.
 - ALL CABLING/JUMPERS/COAX BETWEEN RADIOS, EQUIPMENT AND ANTENNA WILL BE ROUTED EXTERNALLY ALONG THE POLE.
 - CONTRACTOR WILL INSTALL #6 GROUND WIRE AND GROUND ROD FOR POWER COMPANY.



PREPARED BY:
PM&A
P. MARSHALL
& ASSOCIATES

POLYGON NAME:
AMOE

STRUCTURE NUMBER:
33

STRUCTURE OWNER:
CITY OF FAIRHOPE

STRUCTURE ADDRESS:
ADJ 8477 FAIRHOPE AVE

STRUCTURE COORDINATES:
LAT: **30.523796°**
LONG: **-87.878251°**

DESIGN REVISIONS		
NO.	DATE	REVISIONS
1	4/26/21	REVISED LOCATION & EQUIPMENT
0	2/14/19	ISSUED FOR CONSTRUCTION

PREPARED BY:
APPROVED BY: **P. MARSHALL**
DESIGNED BY: **A. RABENDA**
DRAWN BY: **A. RABENDA**
PROJECT #: **ACA19-071**

SHEET NAME:
POLE ELEVATIONS & DETAILS

SHEET NUMBER:
C-2



2' 14-Port Pseudo Omni Canister Antenna [698-896, 1695-2690, 3550-3700 and 5150-5925 MHz]

GQ2414-06790

Description:

- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells
- 4x ports for Low Band 698-896 MHz
- 4x ports for AWS/PCS/WCS Band 1695-2690 MHz
- 4x ports for CBRS Band 3550-3700 MHz
- 2x ports for U-NII Band 5150-5925 MHz



*Compliant to 780033 D02 General U-NII Test Procedures New Rules v0104c. The antenna meets current U-NII 1 requirements for gain and upper side-lobe performance. Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E

Electrical Specifications							
Frequency Band [MHz]	698-896		1695-2180	2305-2360	2496-2690	3550-3700	5150-5925
Input Connector Type	4x 4.3-10(F)		4x 4.3-10(F)		4x 4.3-10(F)		2x 4.3-10(F)
Isolation (min.)			20 dB				
VSWR (max.) / RFL (min.)			1.5:1 / 14.0 dB				
Impedance			50 Ω				
Polarization			Dual slant 45° (x45°)				
Horizontal Beamwidth			Omni (360°)				
Vertical Beamwidth	68.7°	22.3°	19.0°	16.8°	23.2°	21.7°	
Gain (max.)	4.9 dBi	8.6 dBi	9.7 dBi	8.8 dBi	7.7 dBi	5.0 dBi	
Gain (avg.)	3.3 dBi	7.9 dBi	8.3 dBi	8.2 dBi	7.2 dBi	3.8 dBi	
Down tilt			0° Fixed				
Max Power / Port			100 Watts		50 Watts		1 Watt
PIM @ 2x43 dBm			<-153 dBc		N/A		N/A

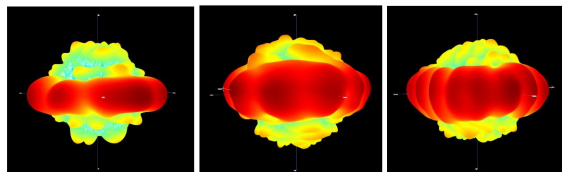
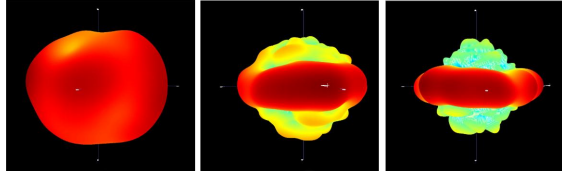
Mechanical Specifications	
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	30.9 lbs (14 kg)
Antenna Diameter	14.7" (374 mm)
Antenna Height	24.5" (622 mm)
Radome Material	ASA
Radome Color	Gray, Brown, Black, 3M™ Conceal Film
Ingress Protection	Outdoor (IP65)
Wind Survival Rating	150 mph (241 km/h)

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3D Antenna Patterns



824 MHz 2140 MHz 2325 MHz 2675 MHz 3650 MHz 5150 MHz

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ANTENNA SPECIFICATIONS

COMMSCOPE

Standard 10" Pole

860649813-XXX
Available in 8 Standard heights

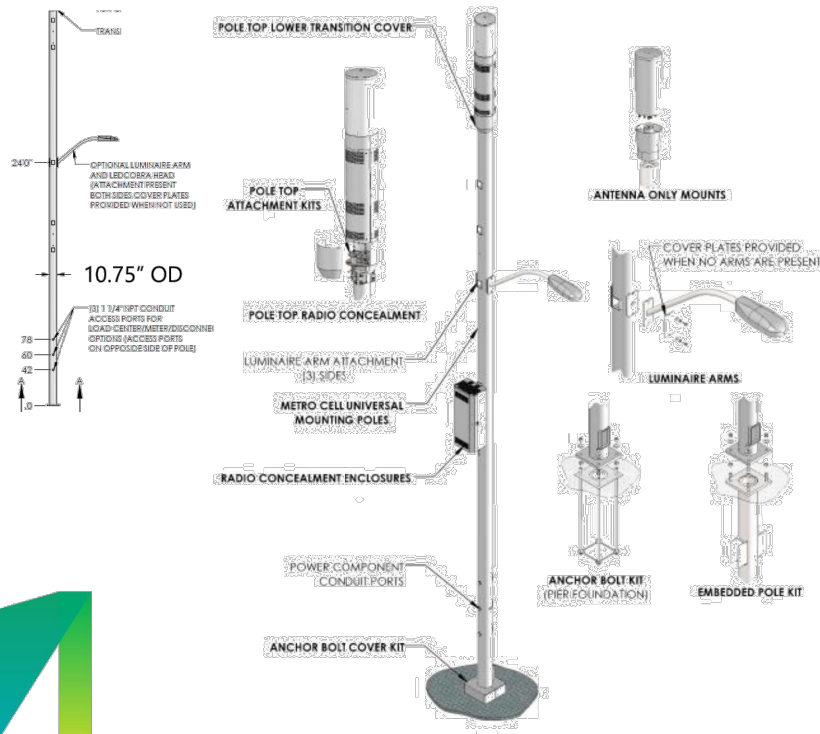
- 860649813-X22 Not luminaire capable
- 860649813-X25 Not luminaire capable
- 860649813-X27 Three Lum Mounts, 24'
- 860649813-X28 Three Lum Mounts, 24'
- 860649813-X30 Three Lum Mounts, 24'
- 860649813-X32 Three Lum Mounts, 24'
- 860649813-X37 Two Lum Mounts, 24'
- 860649813-X40 Two Lum Mounts, 24'

**X" determines color

Available in 9 Standard colors

- 0 Galvanized
- 1 Light Grey RAL 7035
- 2 Green RAL 6005
- 3 Black RAL 9005
- 4 Brown RAL 8014
- 5 Beige Grey RAL 7006
- 9 Metallic Silver
- W Pure White RAL 9010
- C Faux Concrete

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POLE SPECIFICATIONS

DATA SHEET

AC Disconnect with Integrated Surge Protection for Small Cell Radio Heads

RSCAC-1333-P-240-A • RSCAC-1333-PS-240-A • RSCAC-1333-PH-240-A

powered by
Strikesorb

The RSCAC-1333-P-240 is a Suitable for Use as Service Equipment (SUSE) without condition AC Disconnect with integrated surge protection. It is designed to provide robust overvoltage surge protection for the AC power circuits for today's small cell radio systems. It employs patented Strikesorb® 30-A-2CHV modules capable of withstanding direct surge currents up to 5kA (10/350µs) and induced surge currents up to 60kA (8/20µs). The RSCAC-1333 series provides dual (Line 1 to Neutral) (Line 2 to Neutral) protection for ten AC circuits.



Features

- 60A main breaker Suitable for Use as Service Equipment (SUSE) without condition per UL and NEC
- Four duplex branch breakers (2) 15A, (2) 20A are included
- 120/240VAC split phase configuration
- Employs the Strikesorb 30-A-2CHV Surge Protective Device (SPD)
- The Strikesorb 30-A-2CHV is a Class I SPD, certified by VDE per the IEC 61643-11 standard as suitable for installation in areas where induced lightning exposure is expected
- Strikesorb 30-A-2CHV is able to withstand direct surge currents up to 5kA (10/350µs) and induced surge currents of up to 60kA (8/20µs)
- Provides low let through / clamping voltage - as it does not employ spark gaps or other switching elements
- Strikesorb offers unique protection levels for wireless and small cell applications
- Comes with two compression fittings that can be replaced with 1.5" NPT conduit fittings
- Provides (Line 1 to Neutral, Line 2 to Neutral) protection for 120/240VAC split phase systems
- Compatible with double pole breakers
- Patent pending design
- Pole mount bracket facilitates mounting up to 4" diameter pole using existing clamps. Can also be banded to any diameter pole. Center mount holes (5/8") for center pole mount

Benefits

- Offers unique maintenance free protection
- IP68 / NEMA 6&6P rated enclosure, allowing for installation in harsh environments
- Lightweight design allows easy installation
- Up to ten circuits for individual power control and over current protection of up to ten small cell radio heads



Bracket Included
Raycap

www.raycap.com

Strikesorb is a registered trademark of Raycap.
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G002-01-489 181031

RAYCAP SPECIFICATIONS



PREPARED BY:

PM&A
P. MARSHALL
& ASSOCIATES

POLYGON NAME

AMOE

STRUCTURE NUMBER

33

STRUCTURE OWNER

CITY OF FAIRHOPE

STRUCTURE ADDRESS

**ADJ 8477 FAIRHOPE
AVE**

STRUCTURE COORDINATES

LAT: **30.523796°**

LONG: **-87.878251°**

DESIGN REVISIONS

NO.	DATE	REVISIONS
1	4/26/21	REVISED LOCATION & EQUIPMENT
0	2/14/1	ISSUED FOR CONSTRUCTION

NO.	DATE	REVISIONS
1	4/26/21	REVISED LOCATION & EQUIPMENT
0	2/14/1	ISSUED FOR CONSTRUCTION

PREPARED BY:

APPROVED BY: **P. MARSHALL**
DESIGNED BY: **A. RABENDA**
DRAWN BY: **A. RABENDA**
PROJECT #: **ACA14-077**

SHEET NAME

EQUIPMENT SPECIFICATIONS

SHEET NUMBER

C-3

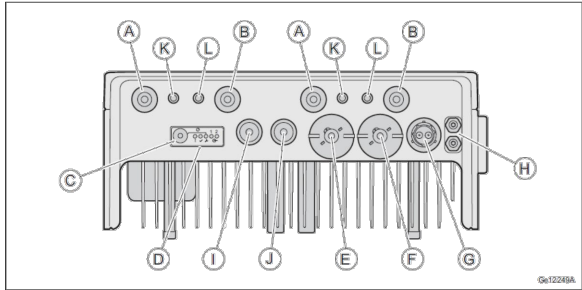
RRUS 4415 B25

- › B25
 - TX = 1930 – 1995 MHz
 - RX = 1850 – 1915 MHz
- › CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. **Install 1 SFP and connect 1 fiber pair to the RRUS 4415 during initial install.**
- › Only use Ericsson supplied and approved SFPs RDH10265/25
- › 2 external alarm inputs
- › Max wind load @ 50m/sec = 260N
- › Breaker size = 20A, DC Power Consumption = 670 W (for dimensioning)
- › 200mm horizontal separation required for side by side mounting
- › 200mm separation required from antenna backplane to radio
- › 400mm vertical outdoor/indoor separation required between 2 radios
- › 500mm vertical separation below antenna
- › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter is required for 2-wire connection
 - Shielded DC cable is required
- › Ground cable size = 2AWG
- › Dimensions (incl. handles, feet and sunshield, w/o fan unit)
 - Height: 14.96" (380 mm)
 - Width: 13.19" (335 mm)
 - Depth: 5.39" (137 mm)
- › Weight, excl. mounting hardware = 46 lbs (21 kg)



RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 2

RRUS 4415 B25 CONNECTION INTERFACES



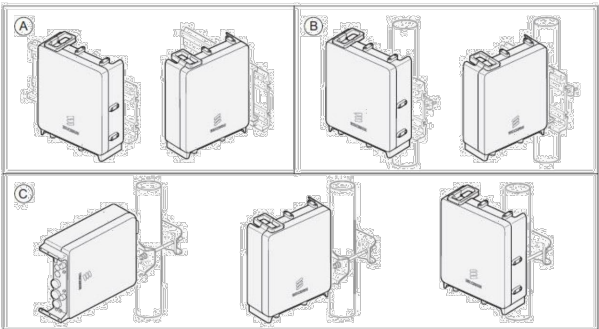
Position	Description	Marking
A	Antenna A	A12
B	Antenna B	B12
C	Maintenance button	—
D	Optical indicators	! 10m 10m 2
E	Optical cable 1	Opt-1
F	Optical cable 2	Opt-2

Position	Description	Marking
G	–48V DC power supply	POWER
H	Grounding	—
I	External alarm and fan unit power supply and control	—
J	ALD (used for a RET unit for example)	ALD
K	TX monitor A	A10
L	TX monitor B	B10

CPRI, RET/AISG port, and ALD port caps have lanyards attached to the radio. DC and RF ports have protective caps to be removed when DC, RF connected to radio.

RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 3

RRUS 4415 MOUNTING OPTIONS



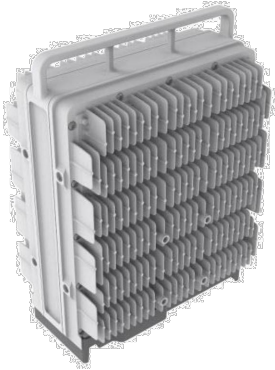
RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 4

RRUS 4415

RADIO SPECIFICATIONS

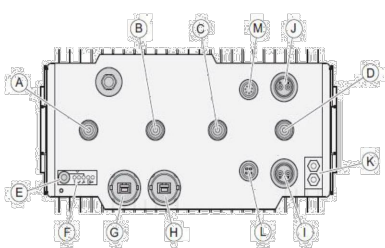
RRUS 4449 B5, B12

- › B5, B12
 - B5 TX = 869 – 894 MHz, B12 TX = 729 – 746 MHz
 - B5 RX = 824 – 849 MHz, B12 RX = 699 – 716 MHz
 - Both frequency bands are combined to transmit/receive out the same RF connectors.
- › CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. **Install 2 SFP7s and connect 2 fiber pair to the RRUS 4449 during initial install.** 2nd CPRI is reserved for 5G NR deployment later. Do not connect SFP7 to DUL20.
- › Only use Ericsson supplied and approved SFP7s RDH10265/25.
 - Install 2 SFP RDH10265 for CPRI length 1.4 km – 10 km
 - Install SFP7 (pair): RDH102701 and RDH102702 (bi-directional SFP7 for CPRI length > 10 km)
- › 2 external alarm inputs
- › Max wind load @ 50m/sec = 260 N
- › Breaker size = 2x25A, DC Power Consumption = 1440 W (for dimensioning). **Both power connections must be connected and operational for the radio to operate.**
- › 40mm horizontal separation required for side by side mounting
- › 200mm separation required from antenna backplane to radio
- › 400mm vertical outdoor/indoor separation required between 2 radios
- › 500mm vertical separation below antenna
- › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter is required for 2-wire connection
 - Shielded DC cable is required
- › Ground cable size = 2AWG
- › Dimensions (incl. handles, feet and sunshield, w/o fan unit)
 - Height: 17.9" (455 mm)
 - Width: 13.19" (335 mm)
 - Depth: 9.44" (240 mm)
- › Weight, excl. mounting hardware = 71 lbs (32 kg)



RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 2

RRUS 4449 B5,12 CONNECTION INTERFACES

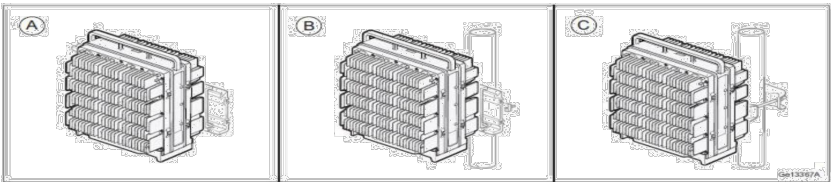


Position	Description	Marking	Connector Type	Cable Types
A	Antenna A	A12	4.3-10 connector	—
B	Antenna B	B12	—	—
C	Antenna C	C12	—	—
D	Antenna D	D12	—	—
E	Maintenance button	—	—	—
F	Optical indicators	! 10m 10m 2	—	—
G	Optical cable 1	Opt-1	LC DCR SFP7 with support for FIBERX2	—
H	Optical cable 2	Opt-2	—	—
I	–48V DC power supply	POWER	Power connector	—
J	Grounding	—	2 x 60 mm	—
K	External alarm and control	ALC	Mini-CRS connector, 14 pin	—
L	ALD (used for a RET unit for example)	ALD	Mini-CRS connector, 8 pin	—

CPRI, RET/AISG port, and ALD port caps have lanyards attached to the radio. DC and RF ports have protective caps to be removed when DC, RF connected to radio.

RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 3

RRUS 4449 MOUNTING OPTIONS



Installation Method	Description
A	Wall installation
B	Pole installation
C	Pole installation with single pole clamp

RRUS 32 Datasheet for Turf Vendors | Commercial in confidence | Rev A | 2016-01-21 | Page 4

RRUS 4449

The PSU is required for the AC power input option. The PSU converts RRUS input main power 100 - 250 V AC to -48 V DC and is installed on the back of the RRUS. Figure 8 shows the PSU.

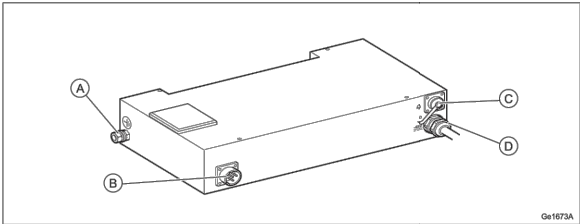


Figure 8 PSU AC 02

Table 12 PSU AC 02 Connection Interfaces

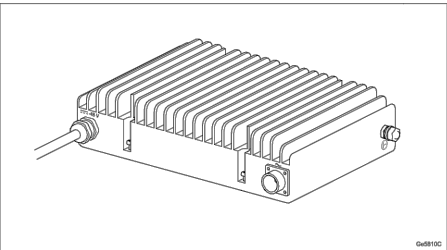
Position	Interface
A	Grounding interface
B	AC power interface
C	Interface for future use
D	DC power interface

PSU DESCRIPTION

MANUFACTURER: ERICSSON
MODEL: PSU AC 02
HEIGHT: 2.68 IN
WIDTH: 12.99 IN
DEPTH: 7.04 IN
WEIGHT: 11.64 LBS

PSU SPECIFICATIONS

- PSU AC 08 (100–250 V AC)



2.6

PSU AC 08

The PSU AC 08 converts AC power to –48 V DC power.

Figure 4 shows the block diagram of the PSU AC 08.

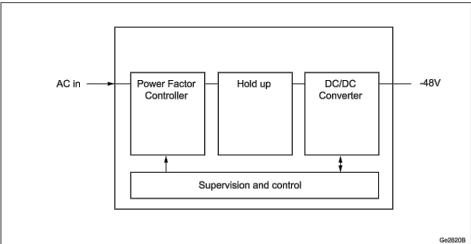


Figure 4 PSU AC 08 Block Diagram

4.4

PSU AC 08

Table 6 lists details for the external interfaces of PSU AC 08.

Table 6 PSU AC 08 Interfaces

Marking	Description	Location
~	AC In	Front
- 48 V	DC Out	Front
⊕	Grounding interface	Right-hand side

PSU SPECIFICATIONS

PREPARED FOR:



PREPARED BY:



POLYGON NAME:

AMOES

STRUCTURE NUMBER:

33

STRUCTURE OWNER:

CITY OF FAIRHOPE

STRUCTURE ADDRESS:

ADJ 847T FAIRHOPE AVE

STRUCTURE COORDINATES:

LAT: 30.523796°

LONG: -87.878251°

DESIGN REVISIONS:

NO.	DATE	REVISIONS
1	4/26/21	REVISED LOCATION & EQUIPMENT
0	2/19/11	ISSUED FOR CONSTRUCTION
NO.	DATE	REVISIONS

PREPARED BY:

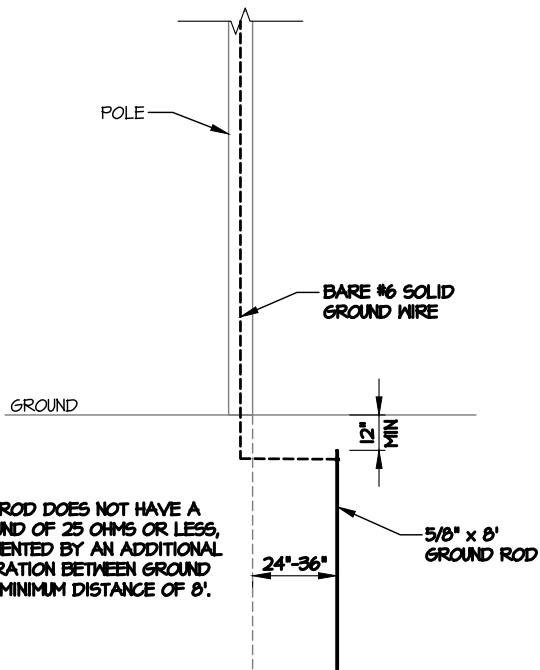
APPROVED BY: P. MARSHALL
DESIGNED BY: A. RABENDA
DRAWN BY: A. RABENDA
PROJECT #: ACA19-07T

SHEET NAME:

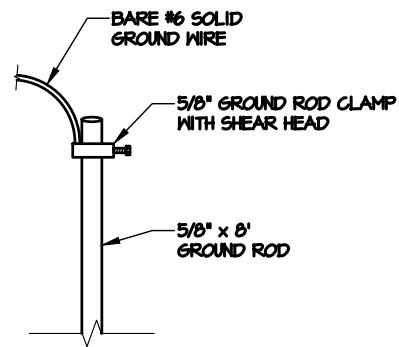
EQUIPMENT SPECIFICATIONS

SHEET NUMBER:

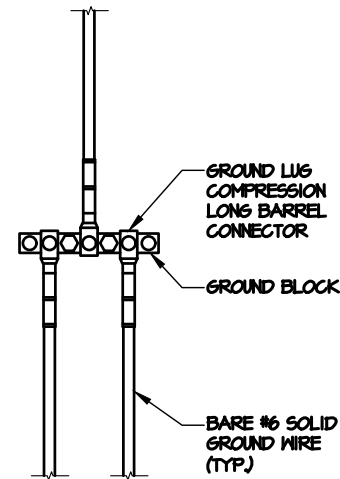
C-4



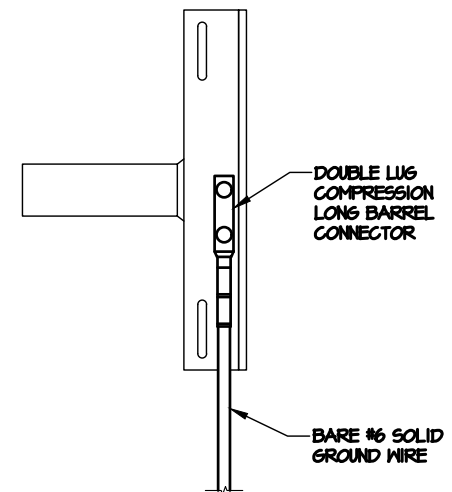
GROUND ROD DETAILS



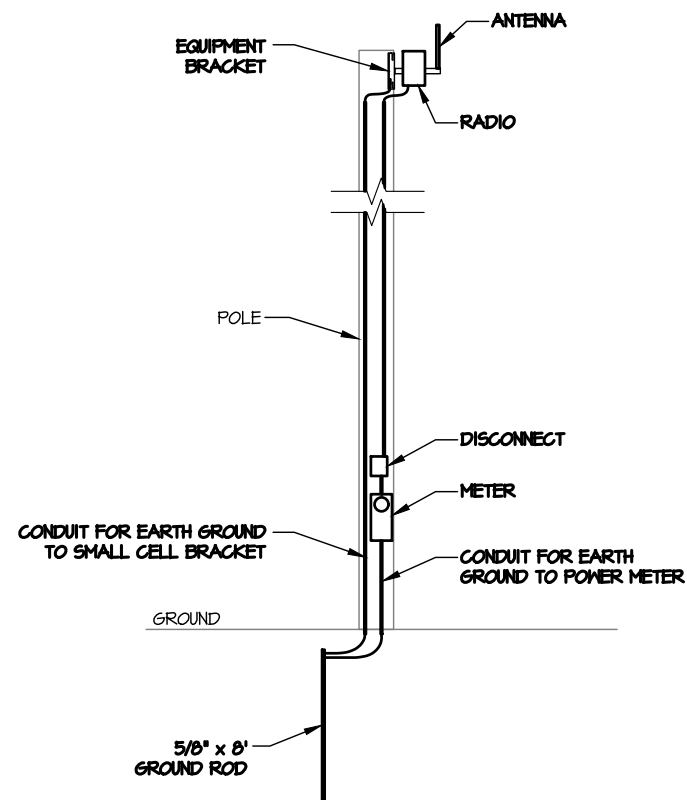
CONNECTION TO GROUND ROD



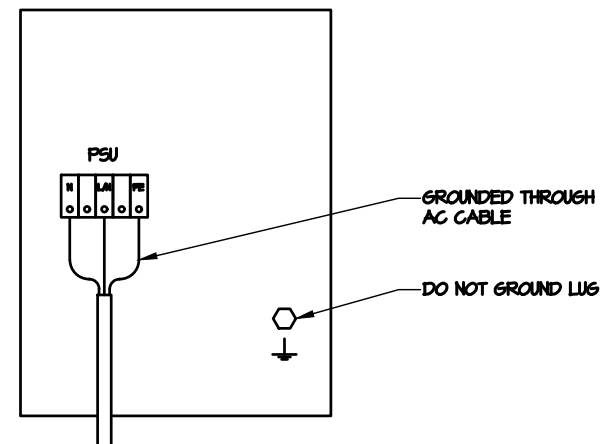
MULTIPLE GROUND CONNECTIONS



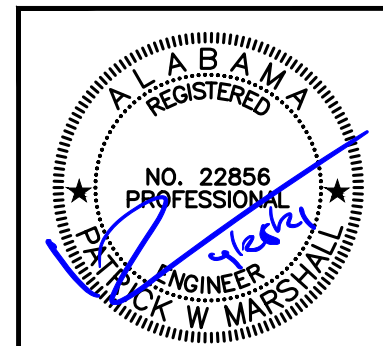
CONNECTION TO EQUIPMENT BRACKET



GROUNDING SCHEMATIC



ERICSSON AC GROUNDING



POLYGON NAME
AMOE

STRUCTURE NUMBER
33

STRUCTURE OWNER
CITY OF FAIRHOPE

STRUCTURE ADDRESS
ADJ 8477 FAIRHOPE AVE

STRUCTURE COORDINATES
LAT: 30.523796°
LONG: -87.878251°

DESIGN REVISIONS		
NO.	DATE	REVISIONS
1	4/26/21	REVISED LOCATION & EQUIPMENT
0	2/19/19	ISSUED FOR CONSTRUCTION

PREPARED BY
APPROVED BY: P. MARSHALL
DESIGNED BY: A. RABENDA
DRAWN BY: A. RABENDA
PROJECT #: ACA19-077

SHEET NAME
GROUNDING DETAILS

SHEET NUMBER
C-5