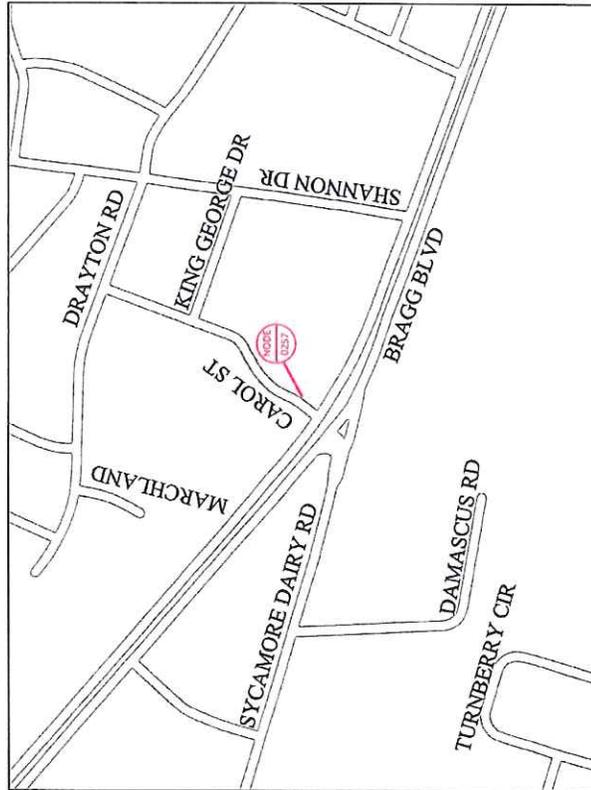
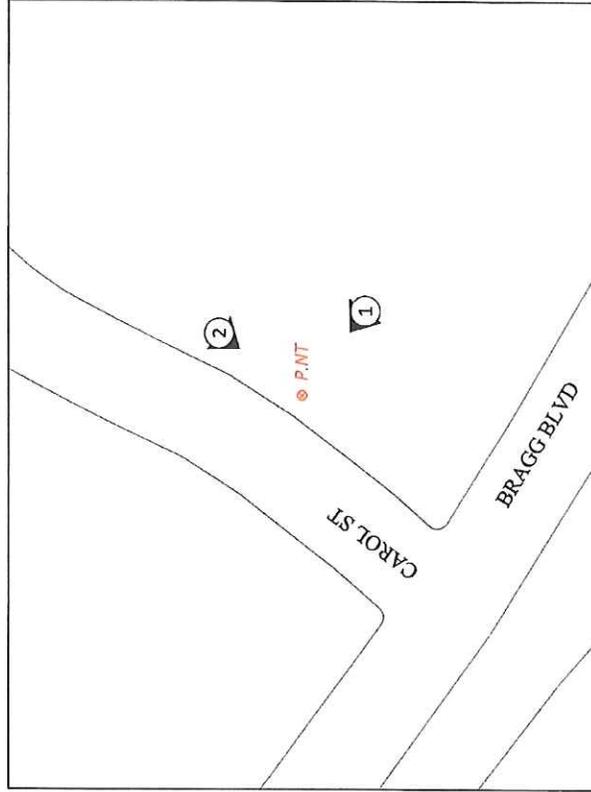




SMALL CELL
 PROPOSED NODE SC-NC 0257 LOCATION
 FAYETTEVILLE, NC



LOCATION MAP
 LAT: 35.07843° LONG: -78.93893°
 1" = 500'



NODE PLACEMENT
 1" = 50'



Paul G. Jones
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 SEAL
 036434
 PAUL G. JONES
 11/19/2017

LOCATION:
 FAYETTEVILLE, NORTH CAROLINA
 35.07843° -78.93893°

PROJECT OWNER:
 FIBERTECH

NOTES:

PREPARED FOR:



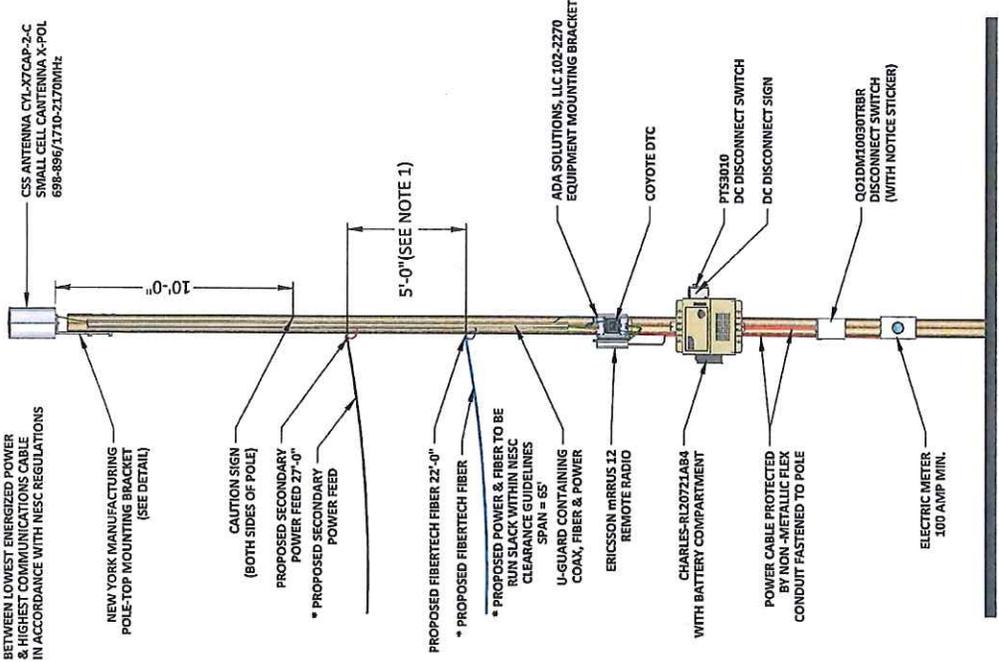
PREPARED BY:
UC/SYNERGETIC
 21 OXFORD RD
 MARKFIELD, MA 01464
 WWW.UCSYNERGETIC.COM
 5-208-337-7620

FIBERTECH SMALL CELL
 LOCATION MAPS

NO.	REVISIONS	DATE
1	ISSUED TO PROJECT CLIENT	11/19/17

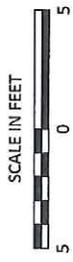
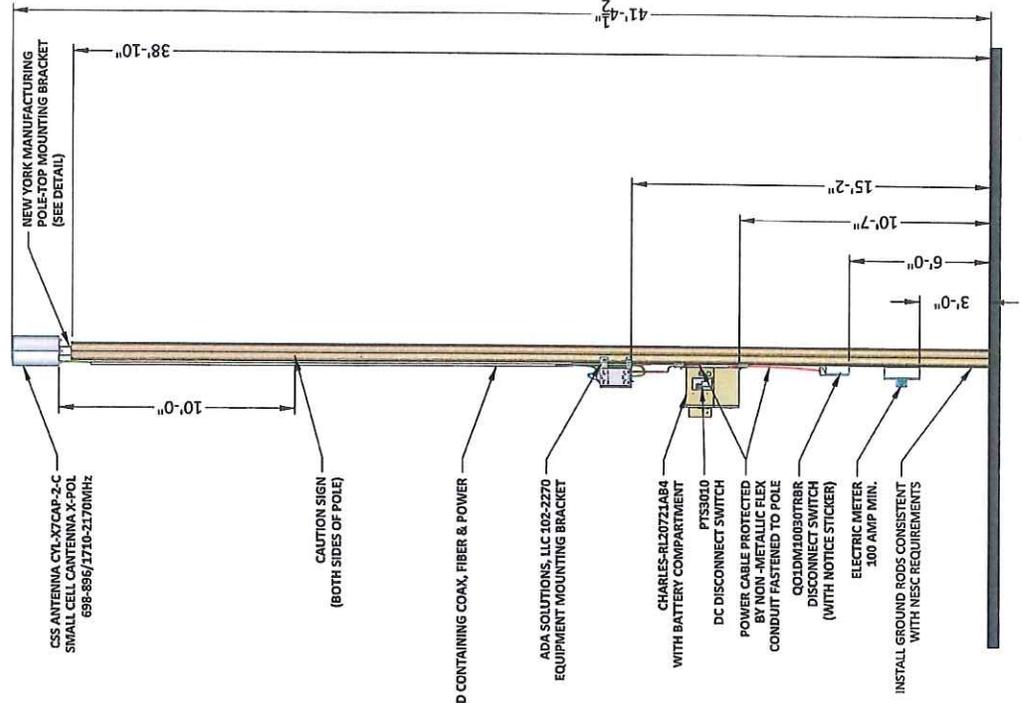
DATE PLOTTED:	11/19/17
SCALE:	AS SHOWN
PROJECT:	FIBERTECH
DRAWN BY:	SCHEIDT
CHECKED BY:	SCHEIDT
DATE:	11/19/17
SHEET:	1 OF 24

NOTE 1:
40' MIN. WORKER SAFETY ZONE
BETWEEN LOWEST ENERGIZED POWER
& HIGHEST COMMUNICATIONS CABLE
IN ACCORDANCE WITH NESC REGULATIONS

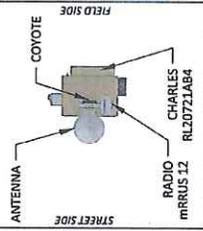


1 PROPOSED PROFILE - REAR VIEW
LOOKING NORTHWEST TOWARDS CAROL ST

NOTE:
EXISTING 38' AGL (45' CL-3) FIBERTECH POLE



2 PROPOSED PROFILE - SIDE VIEW
LOOKING SOUTHWEST TOWARDS BRAGG BLVD



PROPOSED TOP VIEW
DIMENSIONS AND EQUIPMENT
NOT SHOWN FOR CLARITY

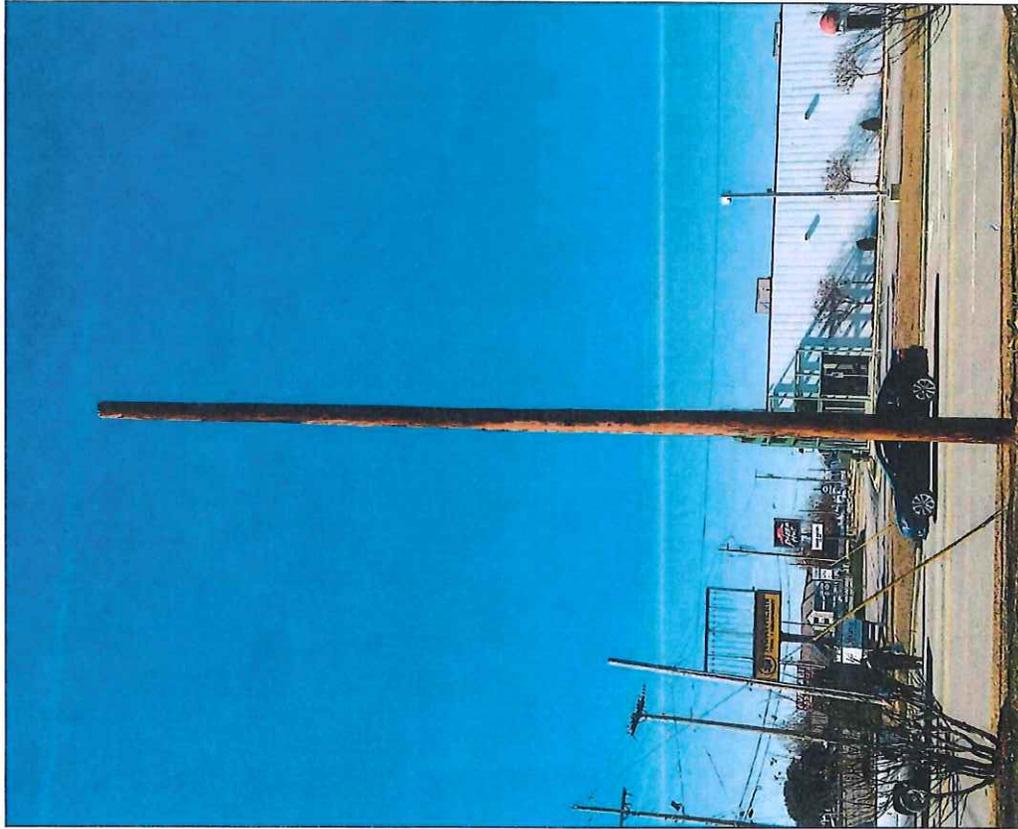
LOCATION: FAYETTEVILLE, NC
35.07945°-76.93953°
POLE OWNER: FIBERTECH
NOTES:

PREPARED BY: **Fibertech**
UC/SYNERGETIC
 21 OXFORD RD
 MANASSAS, VA 20108
 WWW.UC-SYNERGETIC.COM 703.337-7600

FIBERTECH SMALL CELL
PROPOSED

REV	DESCRIPTION	DATE
1	ISSUED FOR SELECT AN/POL/CT	04/20/21

DATE: 04/20/21
 WORK NAME: 15-04-0172
 SHEET NO. 4 OF 14



EXISTING PHOTOGRAPHIC VIEW



PROPOSED PHOTOGRAPHIC SIMULATION

LOCATION: FAYETTEVILLE, NC
 35.07843° -78.93893°
 POLE OWNER: FIBERTECH
 NOTES:

PREPARED FOR:
Fibertech
 PREPARED BY:
UC/SYNERGETIC
 21 OXFORD RD
 NASHVILLE, TN 37214
 www.ucsynergetic.com

FIBERTECH SMALL CELL
 PHOTOSIM

REV	DESCRIPTION	DATE
01	REVISED TO REFLECT IMPROVEMENT	04/27/21

DRAWN BY: SMYTH, JAC
 SCALE: N/A
 DATE: 04/27/21
 PROJECT NAME: 5C-14C-0337
 SHEET # 5 OF 14

CAUTION

Transmitting Antennas
Radio Frequency fields beyond this point MAY EXCEED the FCC Occupational limit.
Please use a disconnect switch or contact the Project Manager for placement of disconnect switch.
Charles Industries, LLC (603) 431-1571 for disconnect switch info.
In accordance with FCC rules 47 CFR 1.1307(b).

NOTICE

Radio frequency fields beyond this point may exceed FCC limits for the general public.
Please use a disconnect switch or contact the Project Manager (603) 431-1571 for disconnect switch information.
In accordance with FCC rules 47 CFR 1.1307(b).

DC DISCONNECT SWITCH

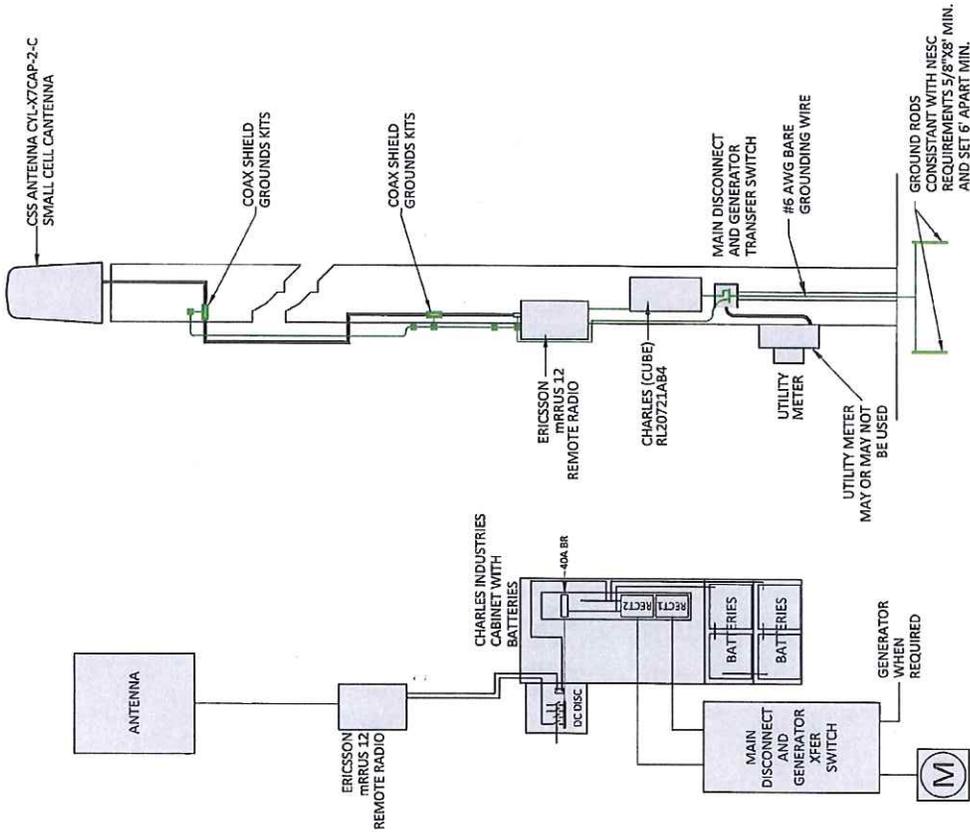
POLE SIGNAGE
NOT TO SCALE

Host (B1)		Remote (D1)	
Color	RX Label	Technologies	Color
Purple	1471	1900 PCS LTE	Gray
Green	1531	850 CDMA	Blue
Orange	1551	700 LTE	Yellow
Brown	1591	2100 AWS LTE	Red
			1611
			1591

SFP/CWDM

COLOR CODING REFERENCE

CHARLES CABINET	TERMINAL	FROM ERICSSON RADIO	ALARM
VIOLET	1	YELLOW	BATTERY DISCHARGE
RED	2	GREEN	COMMERCIAL POWER FAIL
GREEN	3	PINK	DOOR ALARM
BLACK	4	GREY	MULTIPLIER RECTIFIER FAIL
ORANGE	5	RED	RECTIFIER FAIL
WHITE	6	BLUE	
YELLOW	7	VIOLET	
WHITE	8	BLACK	
GREY	9	VIOLET W/BLUE	
ORANGE	10	RED W/BLUE	
BLUE	11	BROWN	
BROWN	12	WHITE	



ELECTRICAL DIAGRAM
NOT TO SCALE

TYPICAL GROUNDING DIAGRAM
NOT TO SCALE

GROUND RODS CONSISTANT WITH NESC REQUIREMENTS 5/8" X 8' MIN. AND SET 6' APART MIN.

UTILITY METER MAY OR MAY NOT BE USED

MAIN DISCONNECT AND GENERATOR TRANSFER SWITCH

Fibertech

PREPARED BY: UC/SYNERGETIC
21 DIXFORD RD
MIDDLETOWN, NH 03055
www.fibertech.com
1-800-337-7600

PROJECT: FIBERTECH SMALL CELL POLE SIGNAGE & WIRING DIAGRAM

DATE: _____
SUBJECT: _____

REV. NO. DESCRIPTION

DATE: _____
BY: _____
CHECKED BY: _____
APPROVED BY: _____

DRAWN BY: _____
SCALE: _____
DATE: _____
MODE NAME: _____
SHEET # 6 OF 24

6

COUNTY: FAYETTEVILLE, NC

NOTES:

PREPARED FOR:

3.6.2 Connecting External Alarm Cable to External Equipment

Connect the external alarm cable to the external equipment, using the following cable data:

Alarm A

- Yellow conductor
- Green conductor

Alarm B

- Grey conductor
- Pink conductor

Alarm C

- Blue conductor
- Red conductor

Alarm D

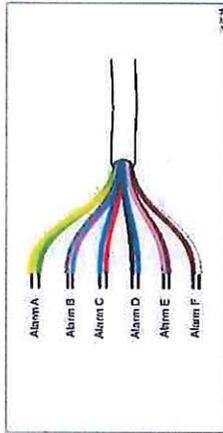
- Black conductor
- Violet conductor

Alarm E

- Grey-pink conductor
- Red-blue conductor

Alarm F

- Brown conductor
- White conductor



WIRING OPTION 1 - RRUS12 AWS

NOT TO SCALE

LOCATION: FAYETTEVILLE, NC

NOTE:

PREPARED FOR:



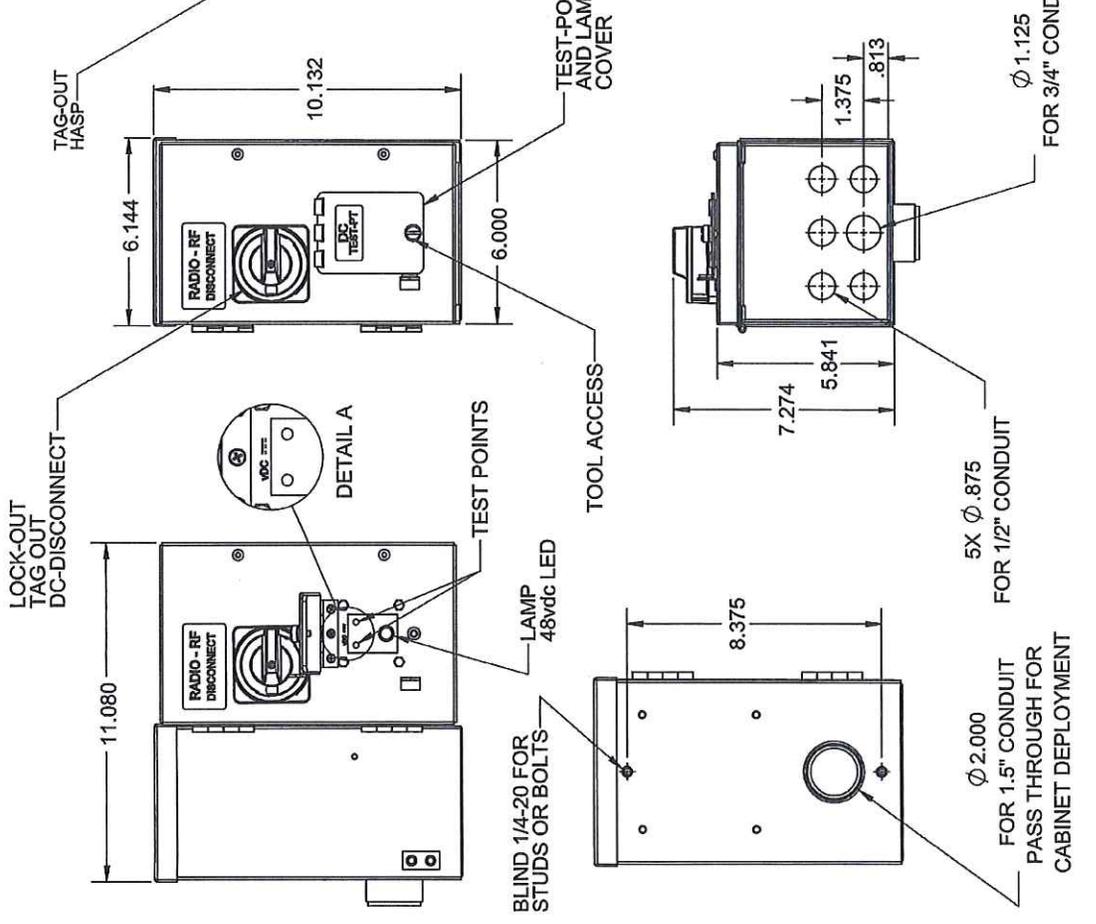
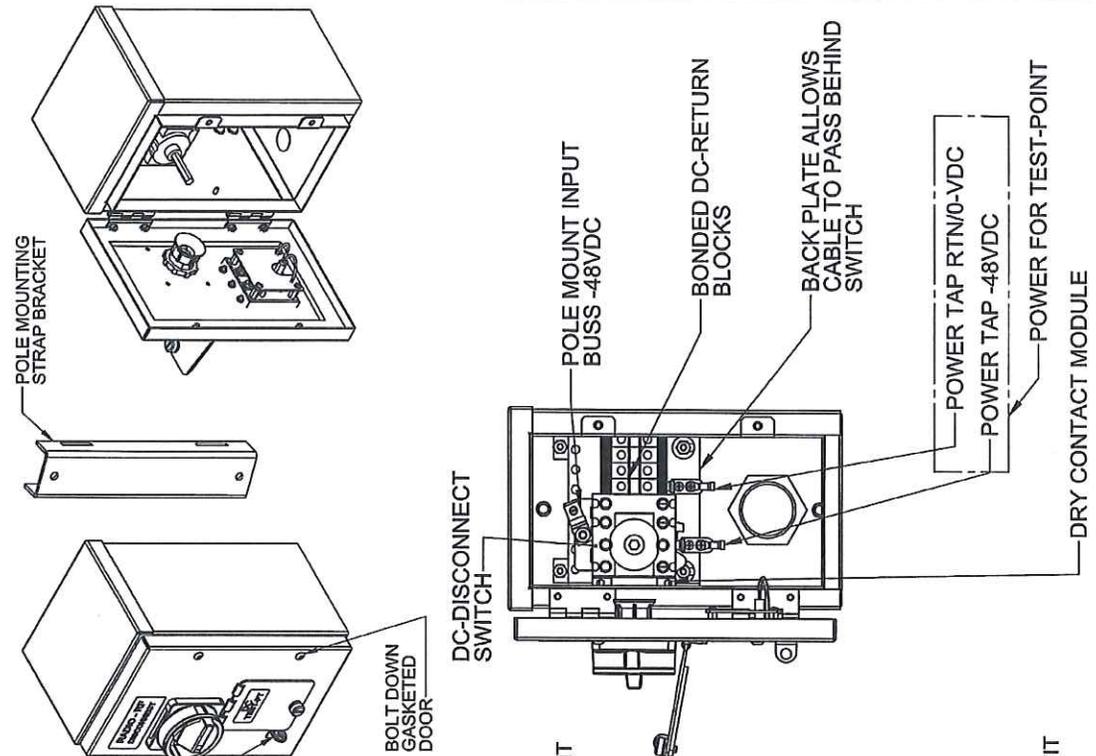
PREPARED BY:

UC/SYNERGETIC
 21 OXFORD RD
 MARYFIELD, VA USA
 www.ucfib.com 540-337-7600

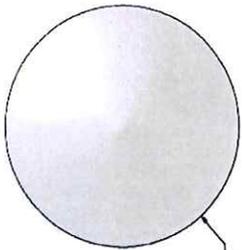
FIBERTECH SMALL CELL
 RADIO WIRING

REVISIONS	
REV	DESCRIPTION
01	ISSUED TO FIELD FOR INSTALLATION

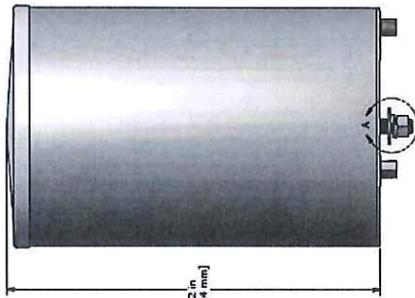
DATE: 03/15/2018	7
DRAWN BY: J. J. H.	
CHECKED BY: J. J. H.	
PROJECT: 15-000000	
SHEET: 7 OF 14	



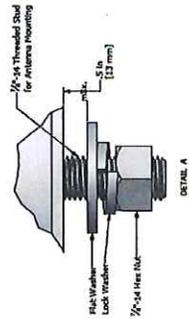
ALUMINUM CONSTRUCTION
 NOTES: UNLESS OTHERWISE SPECIFIED.



15.1 in [384 mm]



24.2 in [614 mm]

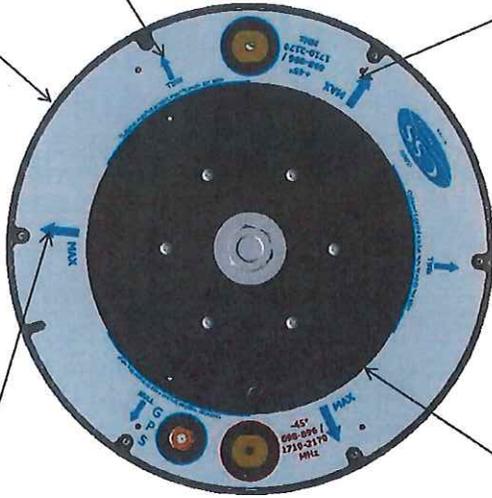


DETAIL A

Max Labels point to the direction of maximum signal strength

15.1" [384 mm] dia

Null Labels point to the direction of minimum signal strength



Drain Holes (multiple places)
(Avoid any obstructions to drain holes)

Mounting brackets must stay inside 10" [254 mm] circle

CSS ANTENNA CYL-X7CAP-2-C SMALL CELL CELL ANTENNA X-POL

698-896/1710-2170MHZ

SIDE VIEW

CSS ANTENNA CYL-X7CAP-2-C SMALL CELL CELL ANTENNA X-POL

698-896/1710-2170MHZ

BOTTOM VIEW

DESIGNED BY: FAYETTEVILLE, NC

NOTES:

PREPARED FOR:



PREPARED BY:

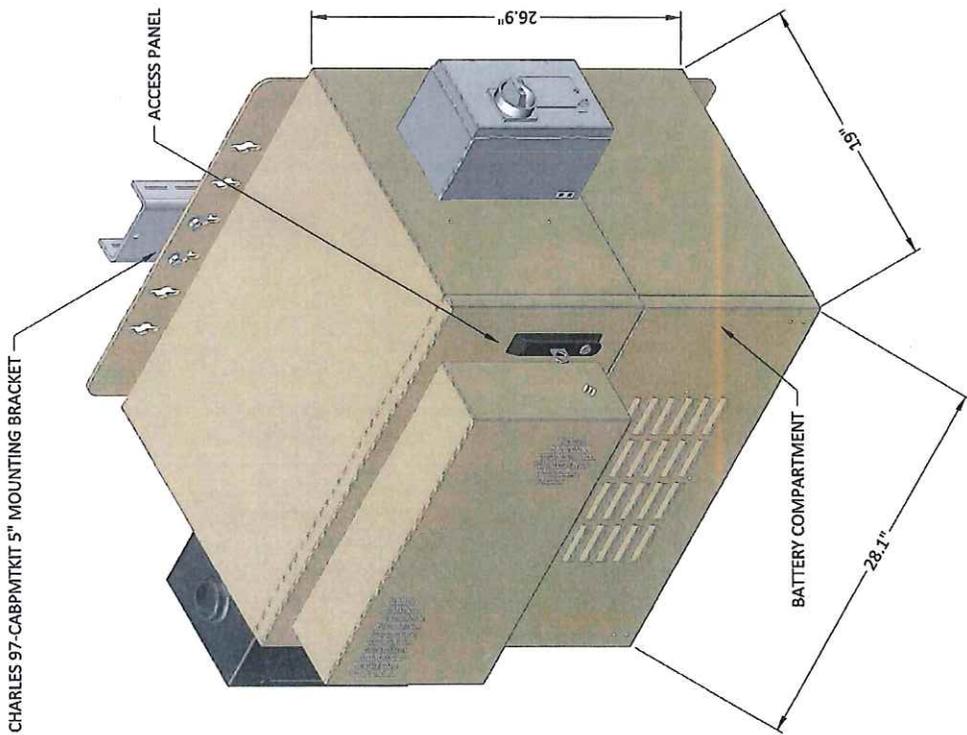
UC/SYNERGETIC
 21 OXFORD RD
 MARY WELLS, MD 21114
 www.ucsynerg.com 410-582-3377-7600

FIBERTECH SMALL CELL
 CSS CYL-X7CAP-2-C
 ANTENNA DETAIL

REV	DESCRIPTION	DATE
01	ISSUED FOR ELECTRICAL SET	06/20/17

DRAWN BY: JAS	9
SCALE: NTS	
USER: NTS, 07/26/16	
PROJECT NAME: 16-04-0000	

SHEET: 9 OF 14



CHARLES 97-CABPMTKIT 5" MOUNTING BRACKET

ACCESS PANEL

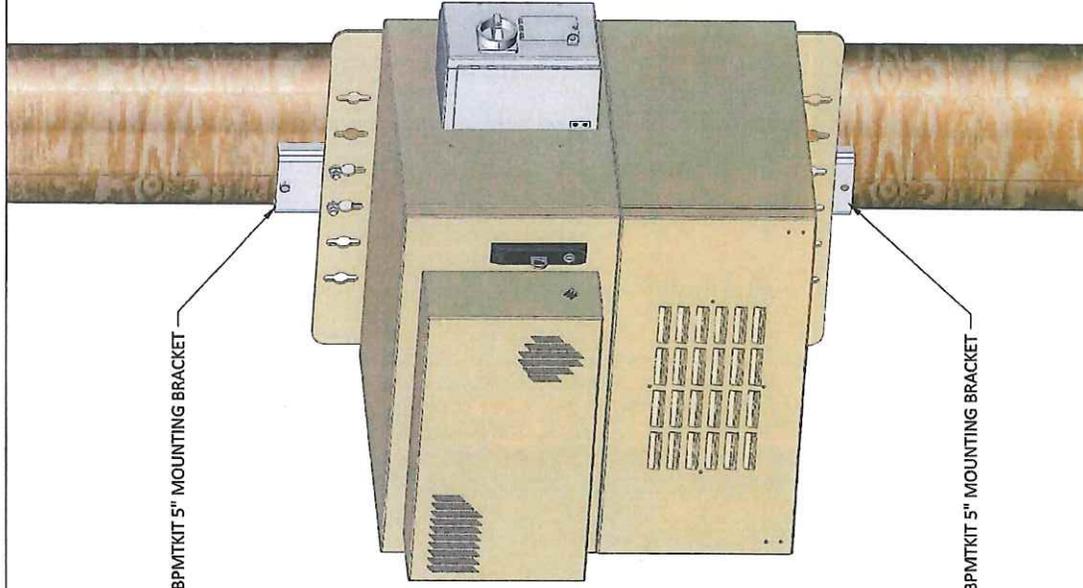
26.9"

15"

BATTERY COMPARTMENT

28.1"

CHARLES UNIVERSAL BROADBAND ENCLOSURE (CUBE) RL20721AB4
ISOMETRIC VIEW



CHARLES 97-CABPMTKIT 5" MOUNTING BRACKET

CHARLES 97-CABPMTKIT 5" MOUNTING BRACKET

CHARLES UNIVERSAL BROADBAND ENCLOSURE (CUBE) RL20721AB4
WITH MOUNTING BRACKETS
CONCEPTUAL VIEW

LOCATION: FAYETTEVILLE, NC

NOTES:

PREPARED FOR:

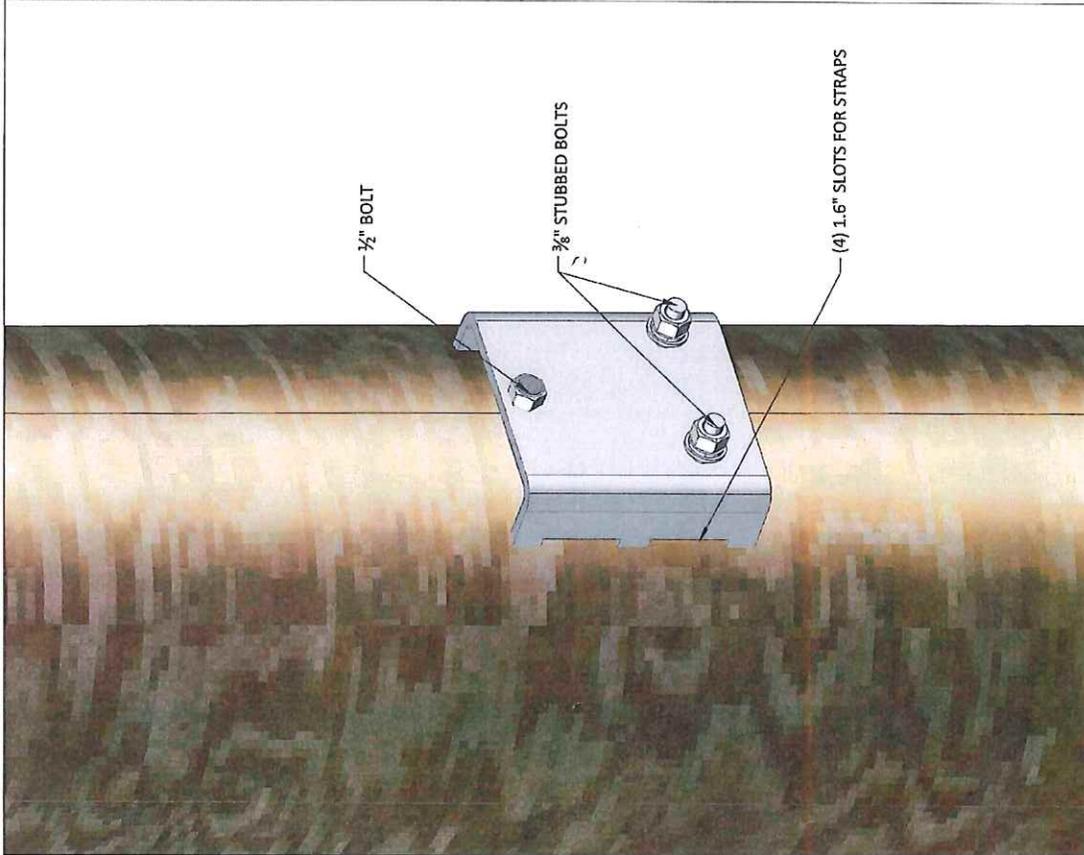


PREPARED BY:
UC/SYNERGETIC
21 OXFORD RD
MANASSAS, VA 20108
www.fibertech.com 703.337.7600

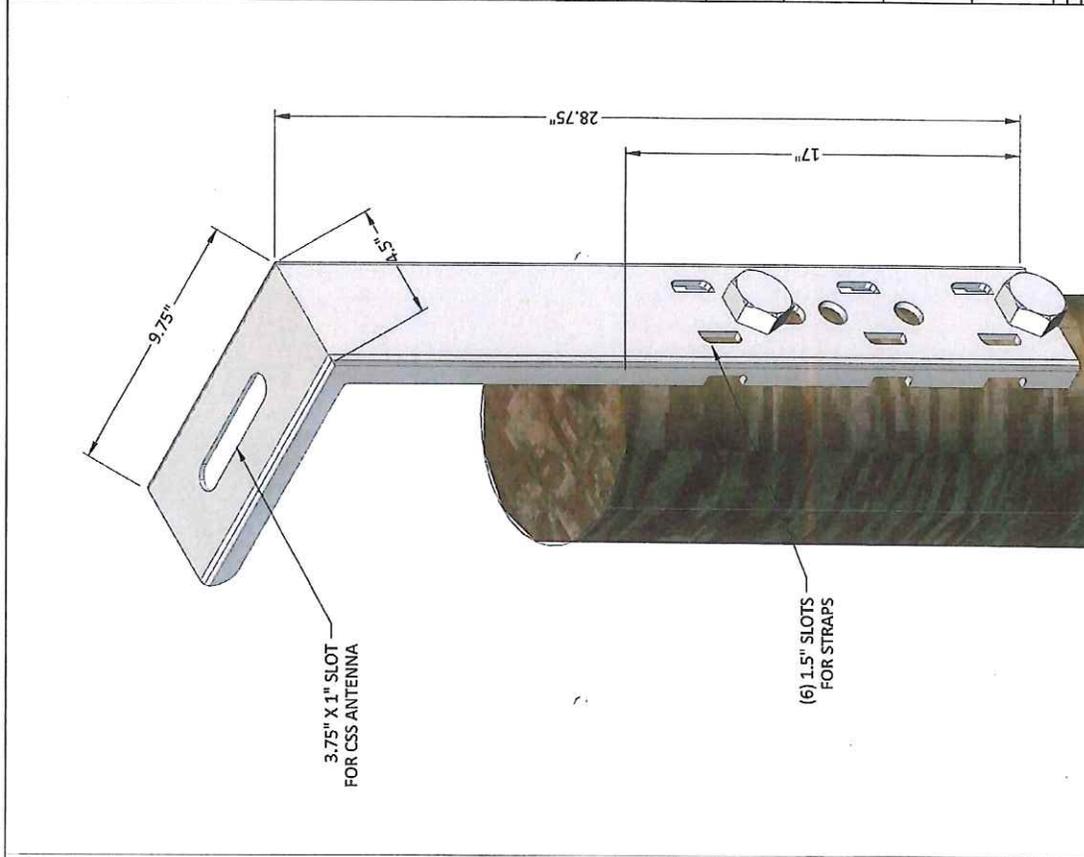
FIBERTECH SMALL CELL
CHARLES (CUBE)
RL20721AB4

REV	DESCRIPTION	DATE
01	ISSUED TO PROJECT MANAGER	04/20/21

QUANTITY	UNIT



CHARLES MOUNTING BRACKET (97-CABPMTKIT 5" U-BRACKET)
CONCEPTUAL VIEW



NEW YORK MANUFACTURING TOP POLE BRACKET
FOR CSS ANTENNA
CONCEPTUAL VIEW

LOCATION: FAYETTEVILLE, NC

NOTES:

PREPARED FOR:



UC/SYNERGETIC
Fiber optic Thinking. Advanced Solutions.
15000 WOODBURN ROAD
MILLSVILLE, VA 22088
www.ucspg.com 1-800-337-7600

MOUNTING BRACKET
DETAILS

REV	REVISIONS	DATE
01	ISSUED TO REFLECT CURRENT LIST	04/20/20
DRAWN BY: [blank]		
CHECKED BY: [blank]		
APPROVED BY: [blank]		
PROJECT NAME: [blank]		
SHEET NO. 13 OF 14		

