

APPLICATION FOR A CERTIFICATE OF APPROPRIATENESS – STAFF REPORT

029-17-CA200 E MARTIN STREET RIGHT-OF-WAYApplicant:FIBER TECHNOLOGIES NETWORKS, LLCReceived:4/17/2017Submission date + 90 days:7/16/20171) 5/25/20172)3)

INTRODUCTION TO THE APPLICATION

<u>Historic District</u>: MOORE SQUARE HISTORIC DISTRICT <u>Zoning</u>: HOD-G <u>Nature of Project</u>: Installation of 37' black steel utility pole with cell antenna and equipment; establish performance standards for future small cell COA applications

APPLICABLE SECTIONS OF GUIDELINES and DESCRIPTION OF PROJECT

SectionsTopicDescription of Work2.1Public Rights-of-
Way and AlleysInstallation of 37' black steel utility pole with cell antenna and
equipment

STAFF REPORT

Based on the information contained in the application and staff's evaluation:

- A. Installation of 37' black steel utility pole with cell antenna and equipment is not incongruous in concept according to *Guidelines* 2.1.10; however installation of a cellular antenna and scale of the base **may be** incongruous according to *Guidelines* 2.1.10 and the following suggested facts:
- 1* The proposal is for a 34 feet tall black metal streetlight pole with a cylindrical antenna on top that increases the height to 37 feet.
- 2* The pole will sit on a black metal ventilated based containing the associated equipment; wires will be inside the pole. The base is approximately 2 foot 4 inches square and a maximum of 4 foot 2 inches tall. A decorative pole base is proposed on top of the equipment base.
- 3* The pole proposes to include a decorative bracket and streetlight. These are not the same as what is already installed in the district.

- 4* The pole is proposed to be located in the brick right-of-way between two street trees adjacent to the front façades of 200 and 208 E Martin Street. A photographic simulation of the proposal is included in the application.
- 5* The location of the proposed pole is incorrect on the location maps page of the application packet.
- 6* It appears as though a 17 inch square section of brick would be removed for installation.
- 7* The closest utility pole on the same side of the street is a streetlight about 45 feet to the east.
- 8* According to City of Raleigh 2015 Pictometry data, the other poles in the vicinity are approximately 34 feet in height.
- 9* One fiberglass pole is shown. Fiberglass poles have not been approved in the historic districts.
- 10* Thirteen examples of other steel pole configurations were provided. They range in maximum height from 27 feet 6 inches and 38 feet 8 inches and vary in color, amount of external equipment, antenna shape, base size, presence of light fixtures, and equipment shrouds.
- 11* Photographs, locations, and directions to installations in Raleigh were provided:
 approximately 205 W Lenoir Street, 1500 Varsity Drive, 2109 Avent Ferry Road, 2621
 Hillsborough Street, Pullen Road. Examples in Holly Springs, Wake Forest, and High Point were also provided.
- 12* On the planning page (p. 8) of Public Rights-of-Way and Alleys section of the *Guidelines* it states that "Public right-of-way features such as trees, streetlights, benches, ground cover, sidewalk paving patterns, curbs, and gutters contribute to a district's character, as do necessary transportation and communication features, such as utility lines and poles, transformers, traffic signs, vending machines, transit stops, and parking booths. Consequently, maintaining the distinctive visual ambiance of a district requires attention to its streets and alleys and their features. Right-of-way characteristics vary from district to district; some vary within districts."

Pending the committee's determination regarding the scale of the base of the pole, staff

suggests that the committee approve the application, with the following conditions:

1. That the streetlight arm and fixture not be installed.

Additionally, staff suggests that the performance standards for consideration when reviewing future similar applications be deferred and brought back to the June meeting. The following are offered for discussion.

- That the pole be constructed of the same material and be the same color as the nearby utility poles or streetlight poles.
- That the diameter of the pole similar to nearby utility poles or streetlight poles.
- That there not be another cell antenna pole on the same block.
- That the new pole be placed at least 45 feet from an existing utility pole on the same side of the street.
- That the height of the new pole plus antenna be no more than 3 feet taller than the existing poles.
- That the antenna be similar in color to the pole.
- That exposed equipment be covered with a shroud the same color as the pole?
- That on metal poles, the size of the equipment base be no large than ##?

Raleigh Historic Development Commission – Certificate of Appropriateness (COA) Application



DEVELOPMENT SERVICES DEPARTMENT Development Services Customer Service Center One Exchange Plaza 1 Exchange Plaza, Suite 400 Raleigh, North Carolina 27601 Phone 919-996-2495 eFax 919-996-1831



Minor Work (staff rev Major Work (COA Co Additions Greate New Buildings Demo of Contrib All Other	iew) – <mark>1 copy</mark> mmittee review) – <mark>10 copies</mark> er than 25% of Building Square Footage uting Historic Resource iew of Conditions of Approval	For Office Use Only Transaction # 50/827 File # 029-11-CA Fee 929 Amount Paid Received Date 727/16 Received By 64
Property Street Address E Ma	rtin St	
Historic District MUDRE	SQUARE 2/17/17	
Historic Property/Landmark nam	e (if applicable)	
owner's NameRaleigh, City	r of	
Lot size	(width in feet)	(depth in feet)
For applications that require revi of all properties within 100 feet (i of public streets or alleys (<u>Label (</u>	ew by the COA Committee (Major Work), .e. both sides, in front (across the street <u>Creator</u>).	provide addressed, stamped envelopes to owners , and behind the property) not including the width
Property Ad	dress	Property Address

I understand that all applications that require review by the commission's Certificate of Appropriateness Committee must be submitted by 4:00 p.m. on the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Type or print the following:		
Applicant Fiber Technologies Netwo		
Mailing Address 300 Meridian Centre		
city Rochester	State New York	Zip Code 14618
Date 1/25/2017	Daytime Phone 585-445-5896	
Email Address rzajac@lightower.com		
Applicant Signature	Richard Zajac, Pern	nits Admin.
Will you be applying for rehabilitation tax credits	for this project? 🗌 Yes 🔳 No Tyr	Office Use Only be of Work <u>50 62</u>
Did you consult with staff prior to filing the applie	cation? 🗌 Yes 🔳 No	

E C	Design Guidelines - Please cite the a	applicable sections of the design guidelines (<u>www.rhdc.org</u>).
Section/Page	Торіс	Brief Description of Work (attach additional sheets as needed)
2.1/8-9	Public Right of way and Alleys	Proposing to install one (1) new 45' black steel utility pole within the ROW along E Martin St. See attached drawings for additional detail.

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Minor Work Approval (office use only)

Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until _______. Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.

Signature (City of Raleigh) ____

Date

TO BE COMPLETED BY APPLICANT			TO BE COMPLETED BY CITY STAFF				
			YES	N/A	YES	NO	N/A
Attach and oth below to <u>Minor V</u> Major V	8-1/2" x 11" er graphic in o be sure you <u>Vork</u> (staff r Vork (COA (or 11" x 17" sheets with written descriptions and drawings, photographs, formation necessary to completely describe the project. Use the checklist ur application is complete. review) – 1 copy Committee review) – 10 copies			/		
1.	Written de Include ex etc.)	escription. Describe clearly and in detail the nature of your project. act dimensions for materials to be used (e.g. width of siding, window trim,			~		
2.	Descriptio	on of materials (Provide samples, if appropriate)			1		
3.	Photograp Maximum 2	ohs of existing conditions are required. Minimum image size 4" x 6" as printed. 2 images per page.			/		
4.	Paint Sch	edule (if applicable)					\checkmark
5.	Plot plan (sidewalks, any additio measurem bought you your propo	(if applicable). A plot plan showing relationship of buildings, additions, drives, trees, property lines, etc., must be provided if your project includes on, demolition, fences/walls, or other landscape work. Show accurate ents. You may also use a copy of the survey you received when you ar property. Revise the copy as needed to show existing conditions and used work.			/		
6.	Drawings	showing existing and proposed work					North Contraction
12	D D D D S ir	Plan drawings Elevation drawings showing the façade(s) Dimensions shown on drawings and/or graphic scale (required) 1" x 17" or 8-1/2" x 11" reductions of full-size drawings. If reduced size is o small as to be illegible, make 11" x 17" or 8-1/2" x 11" snap shots of ndividual drawings from the big sheet.			/		
7.	Stamped e counting th the <u>Label C</u>	envelopes addressed to all property owners within 100 feet of property not ne width of public streets and alleys (required for Major Work). Use <u>Creator</u> to determine the addresses.					/
8.	Fee (<mark>See D</mark>	Development Fee Schedule)			/		

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phone 585-697-5100 fax 585-442-8845 300 Meridian Centre Rochester, NY 14618

April 14th, 2017

Raleigh Historic Development Commission Development Services Customer Service Center Attn: Tania Tully / Melissa Robb One Exchange Plaza, Suite 400 Raleigh, North Carolina 27601

RE: Certificate of Appropriateness Applications (Major Work COA) – Transaction #'s 502424 and 501827 (Fibertech reference #'s Node 0314, Node 0315).

Dear Ms. Tully,

Enclosed you will find the following items:

- 10 copies of site plans for the proposed pole installation along E Martin St (transaction #501827, our file #Node0314).
- 10 copies of site plans for the proposed pole installation along E Lane St (transaction #502424, our file #Node0315).
- 10 copies of "Small Cell Solutions" a guide to the many options/flexibility we have in constructing small cells
- Empty #10 envelopes, pre-stamped + addressed for each location
- Check #30009674 in the amount of \$118 (processing fee for Node0314)
- Check #30009675 in the amount of \$118 (processing fee for Node0315)

Should you have any questions or require additional information in order for this to be added to the May 25th meeting agenda, please do not hesitate to contact me.

Sincerely,

Richard Zajac Permits Admin. Fiber Technologies Networks, L.L.C. 300 Meridian Centre, Suite 200 Rochester, NY 14618 585-445-5896 rzajac@lightower.com



SMALL CELL PROPOSED NODE SC-NC 0314 LOCATION RALEIGH, NC



1" = 500'

1" = 50'

AM ST	
PAKH	

LOCATION: RALEIGH, NORTH CAROLINA 35.77687°, -78.63641° POLE OWINER: FIBERTECH NOTES:	
PREPARED FOR:	•
SYNERGET Innovative Thinking: Engineered Solut 21 OXFORD RD MANSFIELD, MA 02048 www.ucseng.com 1-508-337-7 FIBERTECH SMALL CELL LOCATION MAPS	7 600
REVISIONS REV DESCRIPTION 1 UPDATE TO POLE BASE CABINET & ADDED STREETLIGHT 3,	DATE /30/17
SCALE: AS NOTED ISSUE DATE: 05/05/16 INDEX NAME: SC-NC 0314	







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SHEET #: 3 OF 8





point may exceed FCC limits for the general public Please use disconnect switch or contact the Fibertech NOC (800-497-5578) for disconnect instructions In accordance with FCC rules 47 CFR 1.1307(b)

POLE SIGNAGE

	Host (B	1)		Remote (D1)			
Color	ТХ	RX	Technologies	Color	ТХ	RX	
		SFP Label				SFP Label	
Purple	1471	1491	1900 PCS LTE	Gray	1491	1471	
Green	1511	1531	850 CDMA	Blue	1531	1511	
Orange	1551	1571	700 LTE	Yellow	1571	1551	
Brown	1591	1611	2100 AWS LTE	Red	1611	1591	

SFP/CWDM COLOR CODING REFERENCE



ERICSSON mRRUS 12 B2 (PCS)

2-#14 THHN AWG

ERICSSON RRUS 12

REMOTE RADIO

REMOTE RADIO

ERICSSON PSU AC 02





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CSS ANTENNA CYL-X7CAP-2-C SMALL CELL CANTENNA X-POL 698-896/1710-2170MHz BOTTOM VIEW







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Small Cell Solutions

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Nick Rusin





Wood Solutions



Standard Wood Pole









Wood Communications Pole







Wood Pole With Rectifier













Primary Power Wood Pole With Slim Cabinet













Composite Solutions











Steel Solutions



Standard Steel Pole







Steel Pole With Slim Cabinet









Steel Pole With Slim Cabinet





Steel Pole With Slim Cabinet







Steel Pole With Rectifier







Joint-Use Steel Pole With Lightower Equipment Shroud











Steel Pole With Equipment Base



Decorative Steel Pole With Equipment Base





lightower

Decorative Steel Pole With Acorn Light and Equipment Base



4	PART#	DESCRIPTION	QTY.	GALV.
1	-	POLE PARTS	14	1 miles
	16033-34	7GA. x 8.097" TD x 9" BD x 10'-11 3/4" A36, 12 FLAT FLUTE TAPERED POLE	1	271
	16033-32	7GA. x 7" TD x 10" BD x 5'-7 1/4" A36, 12 FLAT FLUTE TAPERED POLE WLDMNT	1	102
	15423-12	11GA.x6"x12" A569, PORT COVER	2	2.6
	95220-H	24"Ø x 2"-4 3/4" DECORATIVE BASE SHROUD	2	171
		LIGHT ARM PARTS		11.2
	ARWSO-2S	DBL ACORN W/O LUMINAIRES	1	870
	10,000,000	ANTENNA MOUNTS PARTS		012000
	PL-1649	16" TD x 10 58" 8D x 2-0 7/8" TALL TAPERED SHROUD	2	5.3
	WA-968	3/8*x11 5/8* O.D. A36, TOP CAP WLDMNT	1	7
ļ	15412-12	11GA.x1*x5 5/8* A589, FORMED BRACKET	2	0.2
1	PL-1879	1/4*x4 3/8*x5* A36, ANTENNA ADAPTER	1	0.6
		CONDUIT PARTS / FACTORY INSTALLED PARTS		
1	15423-3	11GA.x7*x1'-6 3/8" A569, FORMED PLATE	1	4.1
1	1.25C93	1.66" O.D. x .140"w x 7'-9 15/16" PVC, CONDUIT	1	3.1
1		HARDWARE	0.1	1
	PL-718	1/4"x2"x6" COPPER, BUS BAR	3	0.8
	10900	1"Ø x 3 1/2" A325 BOLT/NUT/LW, GALV.	4	1.7
1	40061	1"Ø F436 HARDENED FLAT WASHER, GALV.	8	0.1
1	70013F	1/2*Ø x 2* FULLY THO/D BOLT/NUT/LW, S.S.	3	0.2
1	70282	1/2*/2 x 1 1/2* BUTTON-HD SCKT CAP SCREW, S.S.	3	0.01
1	44005	1/21Ø FLAT WASHER, NYLON	6	0.01
1	40024	1/2*Ø FLAT WASHER, S.S.	6	0.04
1	52001	1/2*Ø A563-DH JAM NUT, GALV.	3	0.04
1	70120	3/81/2 x 1 1/2" BOLT/NUT/LW, S.S.	2	0.1
	70428	3/8"Ø x 1 1/4" COUNTERSUNK SCKT HD SCREW, S.S.	3	0.01
	71110	3/81/0 x 1" BOLT, S.S.	3	0.05
1	91137	3/8*8 x 1* ROUND HEAD SLOTTED NYLON SCREW	6	0.01
	70222	3/810 x 3/4" SS FLGD BUTTON-HD SCKT CAP SCRW	2	0.01
1	71017	3/810 x 5/8" BOLT, S.S.	6	0.04
1	71102	3/8*Ø x 1/2* BOLT, S.S.	4	0.03
	90060	3/8" STANDOFF INSULATOR (559640)	6	0.1
	43010	3/8*Ø LOCK WASHER, S.S.	16	0.01
	51995	3/810 JAM NUT, S.S.	3	0.02
1	56000	3/8*Ø HEAVY HEX NUT, S.S.	3	0.03
1	70217	1/4*Ø x 1* SS FLGD BUTTON-HD SCKT CAP SCRW	14	0.02
1	55500	1/4-20 U-STYLE SPEED NUT	14	0.02
		TOTAL GAL	VWT	2102

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Steel Pole With Lightower Equipment Shroud







Standard Steel Pole With Lightower Equipment Shroud

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Steel Flag Pole





Date: 05/05/2017
To: City of Raleigh
From: George Sipek, Fibertech
Subject: List of Fibertech wireless sites in Raleigh and other cities in NC

Raleigh, NC Sites

1. Node 0019

Go to intersection of S McDowell Street and W Lenoir Street Head W on W Lenoir Street for 56 feet Pole is on S side of W Lenoir Street This is a new metal Fibertech pole with a recently added equipment shroud design for aesthetics Site completed: April 2016



Go to intersection of Avent Ferry Road and Varsity Drive Head NW on Varsity Drive for 102 feet Pole is on NE side of Varsity Drive This was one of the very first Duke (Joint-Use) metal street light replacement poles installed in NC Equipment shroud design Site completed: April 2017



Go to intersection of Western Blvd and Avent Ferry Road Head SW on Avent Ferry Road for 125 feet Pole is on NW side of Avent Ferry Road Fibertech equipment was placed on a newly placed (replacement) Duke wood street light pole Note: The original pole (now shorter in height) will be removed by Duke Minimal radio design (no shroud) Site completed: September 2016



Southwest corner of Hillsborough Street and Gardner Street intersection Used City of Raleigh LED street light and placed LED light on new Fibertech metal pole Minimal radio design (no shroud) Site completed: April 2016



Go to intersection of Western Blvd and Pullen Road Head N on Pullen Road for 342 feet Pole is on W side of Pullen Road (across from Pullen Park) Fibertech equipment placed on new wood pole Radio design (no shroud) Site completed: September 2016



Holly Springs, NC Site

6. Node 0237

Go to intersection of Holly Springs Road and Sunset Lake Road Head SE on Sunset Lake Road for 441 feet (in front of PNC Bank) Pole is on SW side of Sunset Lake Road Fibertech equipment placed on new wood pole Minimal radio design (no shroud) Site completed: April 2017



Wake Forest, NC Site

7. Node 0265 – Wake Forest

Go to intersection of S Main Street and Alberbury Commons Court Head NW on S Main Street for 30 feet Pole is on SE side of S Main Street Fibertech equipment placed on very first Composite/FRP pole placed in NC as requested by city Equipment shroud design Site completed: April 2017



High Point, NC Site

8. Node 0031

Go to intersection of N Elm Street and W Broad Avenue Head N on N Elm Street for 60 feet Pole is on E side of N Elm Street Fibertech equipment placed on very first Stealth pole placed in NC as requested by city Equipment shroud design Site completed: March 2017

