029-17-CA
200 E MARTIN STREET
RIGHT-OF-WAY
MOORE SQUARE HISTORIC DISTRICT (HOD-G)

APPLICANT:
FIBER TECHNOLOGIES NETWORKS, LLC

Nature of Project:
Installation of 37' black steel utility pole with cell antenna and equipment; establish performance standards for future small cell COA applications.
INTRODUCTION TO THE APPLICATION

Historic District: MOORE SQUARE HISTORIC DISTRICT
Zoning: HOD-G
Nature of Project: 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

<table>
<thead>
<tr>
<th>Sections</th>
<th>Topic</th>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Public Rights-of-Way and Alleys</td>
<td>Installation of 37’ black steel utility pole with cell antenna and equipment</td>
</tr>
</tbody>
</table>

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.
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.

The location of the proposed pole is incorrect on the location maps page of the application packet.

It appears as though a 17 inch square section of brick would be removed for installation.

The closest utility pole on the same side of the street is a streetlight about 45 feet to the east.

According to City of Raleigh 2015 Pictometry data, the other poles in the vicinity are approximately 34 feet in height.

One fiberglass pole is shown. Fiberglass poles have not been approved in the historic districts.

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.

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.

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 larger 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 review) – 1 copy
☐ Major Work (COA Committee review) – 10 copies
☐ Additions Greater than 25% of Building Square Footage
☐ New Buildings
☐ Demo of Contributing Historic Resource
☐ All Other
☐ Post Approval Re-review of Conditions of Approval

Property Street Address: E Martin St

Historic District: MOORE SQUARE

Historic Property/I landmark name (if applicable):

Owner's Name: Raleigh, City of

Lot size: (width in feet) (depth in feet)

For applications that require review by the COA Committee (Major Work), provide addressed, stamped envelopes to owners of all properties within 100 feet (i.e. both sides, in front (across the street), and behind the property) not including the width of public streets or alleys (Label Creator).

<table>
<thead>
<tr>
<th>Property Address</th>
<th>Property Address</th>
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<tbody>
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</tbody>
</table>

For Office Use Only

Transaction #: 501827
File #: 029-17-CA
Fee: $29
Amount Paid: 1/27/16
Received Date: 1/27/16
Received By: CM
Amended: 4/17/17
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 Networks, L.L.C.
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: [Signature]
Richard Zajac, Permits Admin.

Will you be applying for rehabilitation tax credits for this project? □ Yes □ No

Did you consult with staff prior to filing the application? □ Yes □ No

Design Guidelines - Please cite the applicable sections of the design guidelines (www.rhdo.org).

<table>
<thead>
<tr>
<th>Section/Page</th>
<th>Topic</th>
<th>Brief Description of Work (attach additional sheets as needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1/8-9</td>
<td>Public Right of way and Alleys</td>
<td>Proposing to install one (1) new 45' black steel utility pole within the ROW along E Martin St. See attached drawings for additional detail.</td>
</tr>
</tbody>
</table>
**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________________**

<table>
<thead>
<tr>
<th>TO BE COMPLETED BY APPLICANT</th>
<th>TO BE COMPLETED BY CITY STAFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attach 8-1/2&quot; x 11&quot; or 11&quot; x 17&quot; sheets with written descriptions and drawings, photographs, and other graphic information necessary to completely describe the project. Use the checklist below to be sure your application is complete.</td>
<td>YES</td>
</tr>
<tr>
<td><strong>Minor Work (staff review) – 1 copy</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Major Work (COA Committee review) – 10 copies</strong></td>
<td></td>
</tr>
<tr>
<td>1. <strong>Written description.</strong> Describe clearly and in detail the nature of your project. Include exact dimensions for materials to be used (e.g. width of siding, window trim, etc.).</td>
<td></td>
</tr>
<tr>
<td>2. <strong>Description of materials</strong> (Provide samples, if appropriate)</td>
<td></td>
</tr>
<tr>
<td>3. <strong>Photographs</strong> of existing conditions are required. Minimum image size 4&quot; x 6&quot; as printed. Maximum 2 images per page.</td>
<td></td>
</tr>
<tr>
<td>4. <strong>Paint Schedule</strong> (if applicable)</td>
<td></td>
</tr>
<tr>
<td>5. <strong>Plot plan</strong> (if applicable). A plot plan showing relationship of buildings, additions, sidewalks, drives, trees, property lines, etc., must be provided if your project includes any addition, demolition, fences/walls, or other landscape work. Show accurate measurements. You may also use a copy of the survey you received when you bought your property. Revise the copy as needed to show existing conditions and your proposed work.</td>
<td></td>
</tr>
<tr>
<td>6. <strong>Drawings</strong> showing existing and proposed work</td>
<td></td>
</tr>
<tr>
<td>[ ] Plan drawings</td>
<td>YES</td>
</tr>
<tr>
<td>[ ] Elevation drawings showing the façade(s)</td>
<td></td>
</tr>
<tr>
<td>[ ] Dimensions shown on drawings and/or graphic scale (required)</td>
<td></td>
</tr>
<tr>
<td>[ ] 11&quot; x 17&quot; or 8-1/2&quot; x 11&quot; reductions of full-size drawings. If reduced size is so small as to be illegible, make 11&quot; x 17&quot; or 8-1/2&quot; x 11&quot; snap shots of individual drawings from the big sheet.</td>
<td></td>
</tr>
<tr>
<td>7. Stamped envelopes addressed to all property owners within 100 feet of property not counting the width of public streets and alleys (required for Major Work). Use the <strong>Label Creator</strong> to determine the addresses.</td>
<td></td>
</tr>
<tr>
<td>8. <strong>Fee</strong> (See Development Fee Schedule)</td>
<td></td>
</tr>
</tbody>
</table>
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,

[Signature]

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

LOCATION MAP
LAT: 35.77687°  LONG: -78.63641°
1" = 500'

NODE PLACEMENT
1" = 50'

P.FT. 1385

LOCATION MAP
LAT: 35.77687°  LONG: -78.63641°
1" = 500'

FIBERTECH SMALL CELL
LOCATION MAPS
NOTE:
PLACE NEW 30' BLACK STEEL FIBERTECH POLE #1385

PROPOSED PROFILE - REAR VIEW
LOOKING SOUTH TOWARDS E MARTIN ST

PROPOSED PROFILE - SIDE VIEW
LOOKING EAST FROM S BLOUNT ST

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

NEW YORK MANUFACTURING POLE-TOP MOUNTING BRACKET WITH ANTENNA SHROUD (SEE DETAIL)

NOTE:
PLACE NEW 30' BLACK STEEL FIBERTECH POLE #1385

FIBERTECH SMALL CELL PROPOSED

ANTENNA CABLES ROUTED WITHIN POLE

DECORATIVE POLE COLLAR

CAUTION SIGN (BOTH SIDES OF POLE)

VENTILATED EQUIPMENT ENCLOSURE WITH VENTED DOOR OPENINGS CONTAINING:
- ERICSSON PSU AC 02 SEE DETAIL
- ERICSSON mRRUS 12 REMOTE RADIO SEE DETAIL
- COYOTE DTC SEE DETAIL

NEW YORK MANUFACTURING POLE-TOP MOUNTING BRACKET WITH ANTENNA SHROUD (SEE DETAIL)

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

STREETLIGHT 33'-7"

SCALE IN FEET

0 6 0 6

Raleigh, NC
35.77681°, -78.63647°

34'-2"
EXISTING PHOTOGRAPHIC VIEW

PROPOSED PHOTOGRAPHIC SIMULATION

PROPOSED PHOTOGRAPHIC SIMULATION

RALEIGH, NC
35.77681°, -78.63647°
**FIBERTECH SMALL CELL POLE SIGNAGE/WIRING DIAGRAMS**

**WIRING OPTION 1 - RRUS12 AWS**

**POLE SIGNAGE**

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<tr>
<th>Color</th>
<th>TX</th>
<th>RX</th>
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<tr>
<td>Purple</td>
<td>1471</td>
<td>1491</td>
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<tr>
<td>Green</td>
<td>1511</td>
<td>1531</td>
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<tr>
<td>Orange</td>
<td>1551</td>
<td>1571</td>
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<td>Brown</td>
<td>1591</td>
<td>1611</td>
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**Host (H1)**

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<thead>
<tr>
<th>Color</th>
<th>TX</th>
<th>RX</th>
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<tbody>
<tr>
<td>SFP Label</td>
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**Remote (D1)**

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<tr>
<td>SFP Label</td>
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**SFP/CWDM COLOR CODING REFERENCE**

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<tr>
<th>Alarm A</th>
<th>Description</th>
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<tbody>
<tr>
<td>Yellow conductor</td>
<td>Primary</td>
</tr>
<tr>
<td>Green conductor</td>
<td>Ground</td>
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<tr>
<th>Alarm B</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Gray conductor</td>
<td>Neutral</td>
</tr>
<tr>
<td>Pink conductor</td>
<td>Hot</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Alarm C</th>
<th>Description</th>
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<tbody>
<tr>
<td>Blue conductor</td>
<td>Hot</td>
</tr>
<tr>
<td>Red conductor</td>
<td>Hot</td>
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<table>
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<th>Alarm D</th>
<th>Description</th>
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<tbody>
<tr>
<td>Black conductor</td>
<td>Neutral</td>
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<tr>
<td>Violet conductor</td>
<td>Ground</td>
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<th>Alarm E</th>
<th>Description</th>
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<tbody>
<tr>
<td>Gray-pink conductor</td>
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<tr>
<td>Red-blue conductor</td>
<td>Hot</td>
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<table>
<thead>
<tr>
<th>Alarm F</th>
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<tbody>
<tr>
<td>Brown conductor</td>
<td>Neutral</td>
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<tr>
<td>White conductor</td>
<td>Neutral</td>
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**ERICKSON mRRUS 12 82 (PCS) REMOTE RADIO**

**ERICKSON PSU AC 02**

**MAIN DISCONNECT AND GENERATOR XFER SWITCH 100/30A**

**GENERATOR WHEN REQUIRED**

**UTILITY METER**

**COAX SHIELD GROUNDS KITS**

**GROUND RODS CONSISTANT WITH NESC REQUIREMENTS 5/8”X8’ MIN. AND SET 6’ APART MIN.**

**CSS ANTENNA CYL-X7CAP-2-C**

**WIRING OPTIONS**

**ELECTRICAL DIAGRAM**

**TYPICAL GROUNDING DIAGRAM**

**NOT TO SCALE**
(4) 1" Ø x 48" GALV. STEEL
ASTM F1554 GRADE 55 ANCHOR BOLTS
w/HEAVY HEX NUTS & WASHERS
GALV. PER ASTM A153

17" BOLT CIRCLE

1" CHAMFER

9 TURNS OF #9 GALV. WIRE

A 3.5"

6" 4"

6.5"
CSS ANTENNA CYL-X7CAP-2-C SMALL CELL CANTENNA X-POL
698-896/1710-2170MHz
SIDE VIEW

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

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

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

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

RALEIGH, NC
35.77681°, -78.63647°
NEW YORK MANUFACTURING TOP POLE BRACKET
FOR CSS ANTENNA WITH SHROUD
CONCEPTUAL VIEW

3.75" X 1" SLOT FOR CSS ANTENNA

(6) 1.5" SLOTS FOR STRAPS

SHROUD

RALEIGH, NC
35.77681°, -78.63647°
Small Cell Solutions
Wood Solutions
Standard Wood Pole
Wood Communications Pole
Wood Pole With Rectifier
Wood Pole With Lightower Equipment Shroud

- **CSS ANTENNA CYL-X7CAP-2-C**
- **SMALL CELL ANTENNA X-POL**
- **X88-896/1710-2170MHz**

- **NEW YORK MANUFACTURING WOOD POLE ANTENNA SHROUD RAL-8002 (SEE DETAIL)**
- **NEW YORK MANUFACTURING POLE-TOP MOUNTING BRACKET (SEE DETAIL)**
- **PROPOSED SECONDARY POWER FEED HOA 25'-0''**
- **PROPOSED FIBERTECH FIBER HOA 21'-0''**
- **CAUTION SIGN (BOTH SIDES OF POLE)**

- **RADIO CAGE CONTAINING:**
  - **ERICSSON PEU AC 02**
  - **ERICSSON mRRUS 12**
  - **REMOTE RADIO**
  - **COYOTE DTC**

- **POWER CABLE PROTECTED BY NON-METALLIC FLEX CONDUIT**

- **Q01DM10030TR BR**
  - **100/30A MAIN DISCONNECT AND GENERATOR TRANSFER SWITCH (WITH NOTICE STICKER)**

- **ELECTRIC METER WITH SHROUD 100 AMP MIN.**
  - **(METER PLACED TO AVOID ALL PEDESTRIAN AND VEHICLE TRAFFIC PER FIBERTECH AND DOT AGREED REQUIREMENTS)**
Primary Power Wood Pole With Slim Cabinet
Composite Solutions
Fiberglass ePole
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

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# Decorative Steel Pole With Acorn Light and Equipment Base

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>ONLY INT. WM.</th>
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<tbody>
<tr>
<td>1</td>
<td>T.O. ANTENNA &amp; STRUCTURE HEIGHT</td>
<td>27'-0&quot;</td>
<td>27'0&quot;</td>
</tr>
<tr>
<td>2</td>
<td>T.O. ANTENNA MOUNT</td>
<td>27'-0&quot;</td>
<td>27'0&quot;</td>
</tr>
<tr>
<td>3</td>
<td>T.O. POLE</td>
<td>27'-0&quot;</td>
<td>27'0&quot;</td>
</tr>
<tr>
<td>4</td>
<td>T.O. TAPPED SHROUD</td>
<td>27'-0&quot;</td>
<td>27'0&quot;</td>
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**Pole Parts**

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<th>QTY</th>
<th>ONLY INT. WM.</th>
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<tr>
<td>5</td>
<td>T.O.@student</td>
<td>27'-0&quot;</td>
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**Antenna Parts**

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<th>ONLY INT. WM.</th>
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<tbody>
<tr>
<td>6</td>
<td>ANTS-01</td>
<td>27'-0&quot;</td>
<td>27'0&quot;</td>
</tr>
<tr>
<td>7</td>
<td>ANTS-02</td>
<td>27'-0&quot;</td>
<td>27'0&quot;</td>
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**Light Arm Parts**

<table>
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<th>DESCRIPTION</th>
<th>QTY</th>
<th>ONLY INT. WM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>LIGHT ARM</td>
<td>27'-0&quot;</td>
<td>27'0&quot;</td>
</tr>
</tbody>
</table>

**Decorative Steel Pole With Acorn Light and Equipment Base**

- **Item List**
  - **Item #**
  - **Description**
  - **QTY**
  - **Only Int. WM.**

©2015 Lightower Fiber Networks. All rights reserved.
Steel Pole With Lightower Equipment Shroud
Standard Steel Pole With Lightower Equipment Shroud
Steel Pole With Ground Cabinet

![Diagram of Steel Pole With Ground Cabinet]

- **Kathrein Dual Band 700 MHz X-Pol Omni Antenna**
- **New York Manufacturing Top Pole Mounting Bracket**
- **Caution Sign (both sides of pole)**
- **Notice Sign**
- **Charles (Cub) LT Switch (see detail)**
- **Connect grounding wire to existing grounding rod, if none exists, install ground rod consistent with NEC requirements**

**Cabinet Dimensions**
- 48” x 48” x 24”

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Steel Flag Pole
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
2. **Node 0057**
   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
3. **Node 0059**
   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
4. **Node 0062**
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
5. **Node 0060**
   - 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
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