Certificate of Appropriateness Placard
for Raleigh Historic Resources

400 NEW BERN AVENUE ROW
Address
OAKWOOD
Historic District

Historic Property
034-18-MW
Certificate Number
03-07-2018
Date of Issue
09-07-2018
Expiration Date

Project Description:

- Attach small cell antenna equipment to existing wood utility pole

This seal must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the Inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature, ___________________________
Raleigh Historic Development Commission

Pending the resolution of appeals, commencement of work is at your own risk.
Raleigh Historic Development Commission –
Certificate of Appropriateness (COA) Application

For Office Use Only

Transaction # 544038
File # D34-18-MW
Fee $29.00
Amount Paid $29.00
Received Date 6 FEB 2018
Received By S.W.S

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 40c 1/2 New Bern Ave.

Historic District Oakwood

Historic Property/Landmark name (if applicable) N/A

Owner’s Name NCDO Public ROW of New Bern Ave.

Lot size N/A (width in feet) N/A (depth in feet) N/A

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).
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  Mobilitie, LLC.

Mailing Address  3475 Piedmont Rd. NE Suite 1000

City  Atlanta  State  GA  Zip Code  30305

Date  2/6/18  Daytime Phone  919-604-2736

Email Address  mhicks@mobilitie.com

Applicant Signature

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

Office Use Only

Type of Work  87

Design Guidelines - Please cite the applicable sections of the design guidelines (www.rhdc.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></td>
<td></td>
<td>Attachment of small cell antenna equipment upon an existing utility pole owned by Duke Energy.</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 9/7/18. 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 3/7/18

<table>
<thead>
<tr>
<th>TO BE COMPLETED BY APPLICANT</th>
<th>YES</th>
<th>N/A</th>
<th>TO BE COMPLETED BY CITY STAFF</th>
<th>YES</th>
<th>NO</th>
<th>N/A</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>
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<td>Minor Work (staff review) – 1 copy</td>
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<tr>
<td>Major Work (COA Committee review) – 10 copies</td>
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<td>1. Written description. 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>
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<td>2. Description of materials. (Provide samples, if appropriate)</td>
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<td>3. Photographs of existing conditions are required. Minimum image size 4” x 6” as printed. Maximum 2 images per page.</td>
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<td>4. Paint Schedule (if applicable)</td>
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<td>5. Plot plan (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>
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<td>6. Drawings showing existing and proposed work</td>
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<tr>
<td>□ Plan drawings</td>
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<td>□ Elevation drawings showing the façade(s)</td>
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<td>□ Dimensions shown on drawings and/or graphic scale (required)</td>
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<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>
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<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 Label Creator to determine the addresses.</td>
<td></td>
<td>X</td>
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<td>8. Fee (See Development Fee Schedule)</td>
<td>X</td>
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</tbody>
</table>
February 6, 2018

Tania Georgiou Tully
Planner II
PO Box 590
Raleigh, NC 27602

RE: MOBILITIE, LLC'S SMALL CELL ANTENNA ATTACHMENT UPON AN EXISTING UTILITY POLE
400 1/2 NEW BERN AVE. MINOR COA APPLICATION & ELECTRICAL INSPECTIONS TRANSACTION #
543244

Dear Tania: Thank you for your time a long time ago looking at this candidate with me. You determined that this candidate falls within Oakwood Historic District. The existing pole is located within the NCDOT ROW.

Specifically, Mobilitie is deploying infrastructure to form a network that will provide high-speed, high-capacity bandwidth and mobile connectivity to service the residents, businesses and visitors of Raleigh.

SMALL CELLS SITES

Mobilitie’s Small Cell Sites involves the installation of small, low-powered wireless facilities, consisting of a transmit-receive antenna that communicates with wireless devices, a wireless backhaul antenna that connects the facility to the carrier’s core network, and compact radio equipment mounted on either new or existing utility or light poles. These Small Cells add coverage and capacity to the existing wireless networks, and are designed to blend with existing infrastructure. Enclosed is one (1) set of construction drawings which includes elevations detailing the specifics of the pole, antenna, and other ancillary equipment along with the Site Plan and Cover Sheet depicting the actual location of the candidate.

REQUEST FOR APPROVAL

Mobilitie respectfully requests that the staff review and approve the Minor Certificate of Appropriateness (COA) for the enclosed application. The application consists of attaching small cell wireless antenna and electric upon an existing wooden utility pole owned by Duke Energy. Mobilitie values both the staff and board(s) input to the proposal, and will work closely throughout the permitting and construction process. Please do not hesitate to contact me at 919-604-2736 or mhicks@mobilitie.com if you may need any additional information. Thank you for your attention to this matter.
Respectfully submitted,

Michael Hicks
Permitting Manager

Schedule of Enclosure:

Construction Drawings (1 copies)
COA Application
Compact Disc
Copy of Receipt for Payment of Application Fee
SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER:
9NCB000830C/RA90XS077C

LATITUDE/LONGITUDE:
35.780104/-78.633047

CROSS STREET:
NEW BERN AVE & S BLOODWORTH ST
CITY, STATE, ZIP:
RALEIGH, NC 27601

NOTE:
GENERAL CONTRACTOR IS REQUIRED TO CROSS CHECK COORDINATES, EXHIBIT PHOTO, AERIAL PHOTO AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND. CONCERNS OR QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO ASSIGNED MOBILETIE CO.

GENERAL NOTES
THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OF EFFECT ON DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEEDED.

SITE INFORMATION
SITE ID: 9NCB000830C
CASCADE ID: RA90XS077C
LATITUDE: 35.780104
LONGITUDE: -78.633047
CROSS STREET: NEW BERN AVE & S BLOODWORTH ST
CITY, STATE, ZIP: RALEIGH, NC 27601
COUNTY: WAKE COUNTY
JURISDICTION: RALEIGH CITY
PROPERTY OWNER: PUBLIC RIGHT-OF-WAY
APPLICANT: MOBILETIE, LLC
3475 PRINCE ROAD NE, SUITE 1000
ATLANTA, GEORGIA 30305
PHONE: (312) 638-5460

ENGINEER
KMB DESIGN GROUP, LLC
1800 ROUTE 34, SUITE 209
WALL, NJ 07719
FOR QUESTIONS EMAIL: DESIGN@KMBDG.COM
TEL: (732) 392-9352 FAX: (732) 392-9360 www.KMBDG.com

DO NOT SCALE DRAWINGS
CONTRACTORS SHALL VERIFY ALL PLANS, (E) DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION
END USER PROPOSES TO INSTALL EQUIPMENT ON AN EXISTING WOOD POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:
— INSTALL PROPOSED BACKHAUL TRANSPORT EQUIPMENT ON AN EXISTING WOOD UTILITY POLE

CODES
2009 INTERNATIONAL BUILDING CODE
NATIONAL ELECTRICAL SAFETY CODE
1V/6A-222.5-2 OR LATEST EDITION LOCAL BUILDING/PLANNING CODE

DRAWING INDEX
SHEET NO. SHEET TITLE
T-1 TITLE SHEET
SP-1 EXHIBIT PHOTO & SITE PLAN
EV-1 ELEVATIONS
EV-2 ELEVATIONS
PL-1 PLUMBING & Riser DIAGRAM
EQ-1 EQUIPMENT DETAILS
EQ-2 EQUIPMENT DETAILS
E-1 ELECTRICAL DETAILS
G-1 GROUNDING DETAILS
TC-1 VEHICULAR TRAFFIC CONTROL PLAN
TC-2 PEDESTRIAN TRAFFIC CONTROL PLAN
GM-1 GENERAL NOTES
GM-2 GENERAL NOTES
GM-3 GENERAL NOTES

MAP DATA © 2016 GOOGLE
1. All hardware shall be stainless steel.
2. All cables shall be secured to pole every 35' or less.
3. Lightning rods shall be included as required.

NOTES:

EXISTING SIDE VIEW

(T) POLE EMBEDMENT

GRADE

EXISTING DIRT GROUND

NEW SIDE VIEW

(C) POLE EMBEDMENT

GRADE

EXISTING DIRT GROUND

SHEET TITLE

POLE ELEVATIONS

SHEET NUMBER

EV-1

SCALE: 1" = 6'

(E) POLE ELEVATIONS

T' OF (E) POLE = ± 35'-0"

(c) STREET LIGHT

(n) WEATHER HEAD FOR NEW OVERHEAD UTILITY

(c) UTILITY LINES (TV, etc.)

(n) CLASS 3 OR CLASS 4 WOOD POLE

(T) POLE EMBEDMENT

GRADE

EXISTING DIRT GROUND

NOTES

REFERENCES TO STRUCTURAL ANALYSIS REPORT (ANOTHER SEPARATE DOCUMENT) FOR ADDITIONAL STRUCTURAL INFORMATION.
EXISTING BACK VIEW

EXISTING DIRT GROUND

NOTES:
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
2. ALL CABLES SHALL BE SECURED TO POLE EVERY 36" OR LESS.
3. LIGHTNING RODS SHALL BE INCLUDED AS REQUIRED.

NEW BACK VIEW

(E) POLE ELEVATIONS

SCALE: 1" = 1'

1. T/F OF (E) POLE = ± 35'-0"
2. T/F OF (H) ANTENNA = ± 35'-0"
3. B/F OF (H) ANTENNA = ± 35'-10"
4. T/F OF (E) POLE = ± 35'-0"

(E) POLE EMBLEM

NOTES:
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
2. ALL CABLES SHALL BE SECURED TO POLE EVERY 36" OR LESS.
3. LIGHTNING RODS SHALL BE INCLUDED AS REQUIRED.
ANTENNA (SUPPLIED BY MOBITILE)

(2) 1/2" 50 OHM COAXIAL CABLE
(SUPPLIED BY MOBITILE)

CAT-5E ETHERNET LINK

PROVIDE SERVICE GROUNDING AND BONDING PER NEC 250.24

POWER LINE PER CODE W/ 1/8" AND GND
(SUPPLIED BY MOBITILE)

RAYCAP OR TRANSSECTOR AC DISTRIBUTION PANEL, 20A
MCB, 22 KAC (MIN), (RATED NEMA 3R), INCLUDE
7A CB FOR PRI OR (2) 5A CB FOR MV RADIO

POWER LINE PER CODE W/ 1/8" AND GND
(SUPPLIED BY MOBITILE)

POLE MOUNTED ELECTRICAL SERVICE DISCONNECT
(OC TO PROVIDE DISCONNECT AFTER CONFIRMING
MODEL & MFG W/ UTILITY CO)

POWER LINE PER CODE W/ 1/8" AND GND
(SUPPLIED BY MOBITILE)

POLE MOUNTED ELECTRICAL SERVICE METER, 100 AMPS
120/240 VOLT, 1 PHASE (OC TO PROVIDE METER BASE
AFTER CONFIRMING MODEL & MFG W/ UTILITY CO)

POWER SERVICE LINE IN PER LOCAL
REQUIREMENTS

M

ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

LOAD CALCULATIONS

SCALE: NOT TO SCALE
1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRMS PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.

2. EXTEND CHANNELIZING DEVICES INTO SHOULDER WHERE APPLICABLE.

3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING, DISTANCE SUCH AS DOWNSIDES OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING JURISDICTION. NIGHT-TIME WORK IS PROHIBITED UNLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL AUTHORITY HAVING JURISDICTION.

4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.

5. MAINTAIN A MINIMUM LANE WIDTH OF 12'.

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**TABLE 1**

<table>
<thead>
<tr>
<th>POSTED SPEED (MPH)</th>
<th>DISTANCE BETWEEN SIGNS (A)</th>
<th>TAPE B</th>
<th>TAPE C</th>
<th>BUFFER</th>
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<tbody>
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**NOTES:**

A) DISTANCES IN FEET UNLESS OTHERWISE NOTED.
B) CONTRACTOR TO VERIFY ALL SPEED LIMIT.
C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR DISTANCES.
D) ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION. SEE NOTE 1, SHEET TC-2.
E) TAPE LONGER SHOWN BASED ON 12' LANE WIDTH. SEE NOTE 18, SHEET TC-2.
TRAFFIC CONTROL GENERAL NOTES

1. All temporary traffic control signage, layouts, and procedures shall comply with local jurisdictional requirements and Manual of Uniform Traffic Control Devices (MUTCD), latest edition, wherever more stringent.

2. Prior to any road construction, traffic control signs and devices shall be in place.

3. Traffic control devices for lane closures including signs, cones, barricades, etc. shall be placed as shown on plans. Signs shall not be placed without actual lane closures and shall be immediately removed upon removal of the closures.

4. Selection, placement, maintenance, and protection of traffic, pedestrians, and workers shall be in accordance with the Manual of Uniform Traffic Control Devices (MUTCD). “Temporary Traffic Control,” and local jurisdictional requirements unless otherwise noted in the plans and specifications, and shall be approved by the appropriate highway authority having jurisdiction.

5. Advance warning signs, distances, and taper lengths may be extended to adjust for reduced visibility due to horizontal, and vertical curvature of the roadway and for actual traffic speeds if in excess of posted speed limits.

6. Tapers shall be located to maximize the visibility of their total length.

7. Conventional or non-operating signal indications on the (C) traffic signal systems shall be bagged or covered.

8. All (C) road signs, pavement markings and/or permanent pavement reflectors which contact with the (C) traffic control, plan shall be covered, removed, or relocated. All traffic control devices shall be restored to match pre-construction condition after completion of work.

9. Contractor shall contact local authority having jurisdiction and provide additional “flagman” or police supervision, if required.

10. All excavated areas within or adjacent to the roadway shall be backfilled and placed on a minimum 3:1:1 slope, prior to end of each work day. Other excavated areas within the clear zone are to be either bagged or covered. Excavated areas should also be set temporarily in place to shield vehicular and pedestrian traffic.

11. Where dictated by local conditions, the contractor shall make provisions for maintaining pedestrian and worker crossing locations in accordance with all applicable codes and OSHA requirements.

12. Construction zone speed limit if reduced from posted limits shall be in accordance with MUTCD and will be determined by the authority having jurisdiction.

13. There shall be no workers, equipment, or other vehicles in the buffer space or the roll ahead space.

14. Driveways and/or side streets entering the roadway after the first advance warning sign shall be provided with at least one WO-1 sign (road work ahead) as a minimum.

15. Cones may be substituted for drums and installed upon the approval of the authority having jurisdiction provided they comply with MUTCD.

16. The spacing between cones, tubular markers, vertical panels, drums, and barricades should not exceed a distance of 30 feet equal to the speed limit in mph when used for tangent channelization, and a distance of 6 feet equal to 2.0 times the speed limit in mph when used for tangent channelization.

17. When channelization devices have the potential of leading vehicular traffic out of the intended vehicular traffic space, the channelization devices should be extended a distance of feet of 2.0 times the speed limit in mph beyond the downstream end of the transition area.

18. Taper lengths are calculated as follows:
   - L = W/S6 (40 MPH and higher) or L = W/S4 (over 40 MPH), where W = offset width (ft), S = traffic speed (mph).

TYPICAL PEDESTRIAN / WORKER SAFETY PLAN

SCALE: NOT TO SCALE

PROJECT NO. 9993008500
DRAWN BY: RC
CHECKED BY: SB

RAI 930577C
RALEIGH, NC 27601
EXISTING 35'-0" WOOD POLE

RAI 9308007
RALEIGH, NC 27601
EXISTING 35'-0" WOOD POLE

PEDESTRIAN TRAFFIC CONTROL PLAN

SHEET NUMBER TC-2
GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST ADOPTED EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.


3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE (N) WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FEATURES AND DIMENSIONS AND SHALL BE COMPLETELY AWARE OF THE WORK TO BE PERFORMED. PROBLEMS OR DISCUSSIONS SHOWN ON THE BOUNDING DOCUMENT OR CONTRACT DOCUMENTS SHOWN ON THE DRAWINGS AS DOCUMENTED IN THE BOUNDING DOCUMENT AND CONTRACT DOCUMENTS, THAT ARE NOT CLEARLY SHOWN ON THE DRAWINGS OR DOCUMENTS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE PRIOR TO THE COMMENCEMENT OF WORK. ALL WORK NOT DOCUMENTED IN THE BOUNDING DOCUMENT OR CONTRACT DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COSTS INCURRED THEREON SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ALL ITEMS, ITEMS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM SUBJECT ONLY TO OWNER-SUPPLIED ITEMS. CONTRACTOR SHALL PROVIDE ALL ITEMS REQUIRED FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

5. PLANS ARE NOT TO BE SCALD. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCORPORATE ALTERNATE SOLUTIONS WHERE APPROPRIATE AND UNLESS OTHERWISE NOTED TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. CONTRACTOR IS REQUIRED TO PROVIDE AND INSTALL MATERIALS WHICH WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE:

   a) TRANSMITTER
   b) UHF ANTENNA AND MOUNTING BRACKETS, GPS UNIT AND KU BACKBONE
   c) UHF COAX AND HANDERS
   d) INTEGRATED LOAD CENTER

6. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED. CLEARANCE. THEREFORE, IF CRITICAL, FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, CONDITIONS OR DESIGN INTENT, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER OR MOBILITIE PRIOR TO THE COMMENCEMENT OF WORK.

7. DETAILS PROVIDED ARE FOR THE PURPOSE OF SHOWING DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO FIT JOB DIMENSIONS OR SITE CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

8. CONTRACTOR SHALL PAY FOR ANY APPLICABLE PERMITS, FEES, INSPECTIONS AND TESTING NOT REQUIRED TO OBTAIN PERMITS OR REQUIRED TO ORDER MATERIALS AND THE COMMENCEMENT OF WORK.

9. THE TERM PROVIDE'S USED IN CONTRACT DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.

10. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING ALSO, THE REQUIREMENTS TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

11. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING ACCEPTED INDUSTRY-STANDARD STANDARDS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA IN ADVANCE AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.

13. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE MOBILITIE CM AND SCHEDULE THEIR ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RIGID EQUIPMENT, ANEMOMETERS AND ANY OTHER PORTIONS OF THE WORK.

15. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE NOTED. CONTRACTOR SHALL PAY FOR ANY COSTS INCURRED TO COMPLY WITH THE SPECIFICATIONS. THE INSTALLATION SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMISSION OF THE COMPLETED INSTALLATION. THE CONTRACTOR WILL BE REQUIRED TO SIGN THE COMPLETED INSTALLATION.

16. CONTRACTOR SHALL MAKE NECESSARY PROMISES TO PROTECT (C) SURFACES, EQUIPMENT, IMPROVEMENTS, PIPELINE, ETC. AND IMMEDIATE REMEDY, TO NEW CONSTRUCTION, ANY DAMAGE THAT OCCURS DURING CONSTRUCTION AT THE TRUE COST OF THE CONTRACTOR.

17. IN DRILLING HOLES, OR CORING INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS AND GALLERIES, THE DRILLS MAY BE ACCOMPANIED AS NEEDED. ALL PENETRATIONS THROUGH CONCRETE SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL ITEMS REQUIRING PROTECTION FROM THE CONTRACTOR USING APPROPRIATE METHODS AND EQUIPMENT PRIOR TO ANY DRILLING OR CORING OPERATIONS IN (C) CONCRETE.

18. CONTRACTOR SHALL REPAIR, TO NEW CONDITION, ALL (C) WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.

19. CONTRACTOR SHALL SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR MATERIALS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS AND SYSTEMS THAT MEET OR EXCEED THE RATING OF THE ASSEMBLY IN WHICH THE NEW PENETRATION IS PLACED.

20. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBAGE. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE FRESHERS IN CLEAN CONDITION AND FREE FROM PARTS, COST, OR MATTER OF ANY NATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.

21. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

22. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO (C) SITE DURING CONSTRUCTION. ENSUER CONSTRUCTION MEASURES. WHEN REQUIRED DURING CONSTRUCTION, SHALL BE IN COMPLIANCE WITH JURISDICTIONS OF STATE AND LOCAL GUIDELINES FOR ENSUER AND SEGMENT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ANY ENSUER CONSTRUCTION, MEASURES, RECORDS-KEEPING MONITORING, AND REPORTING TO THE OWNER AND LOCAL AUTHORITY REQUIREMENTS.

23. ALL CONSTRUCTION WORK IS TO ACHIEVE TO APPLICANTS' INTEGRATED CONSTRUCTION STANDARDS UNLESS STATE OR LOCAL CODES ACCOUNT FOR WORK.

24. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PROVIDE THE CONSTRUCTION IN ACCORDANCE PER STATE BUILDING STANDARDS CODE AND STATE REQUIREMENTS FOR SPECIAL PERMITS. PERMITS FOR SPECIAL PERMITS NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHERE THE FINISHED JOB WILL NOT COMPLY WITH THE LOCAL CODE REQUIREMENTS, A SPECIAL PERMIT WILL BE REQUIRED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT INFORMATION FOR THE WORK. A CHANGE ORDER FOR THAT CODE SHALL BE SUBMITTED TO THE MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK.

25. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR THE PROTECTION AGAINST COST AND DAMAGE TO ANY AND ALL PROPERTY ARISING FROM THE WORK.

26. CONTRACTOR SHALL GUARANTEE ANY AND ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE. ANY CORRECTIVE WORK MUST BE COMPLETED AT THE TRUE COST OF THE CONTRACTOR.

27. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY AND ALL ELECTRICAL WORK INDUCED TO ANY AND ALL CONSTRUCTION WORK. ENSUER ALL WORK SHALL BE IN ACCORDANCE WITH ALL AND ANY APPLICABLE SPECIFICATIONS OF MANUFACTURERS ENCOURAGED BY COMPLIANCE WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DEFICIENCIES AS SOON AS POSSIBLE, AFTER THE WORK IS COMPLETED, NOTIFY THE OWNER OF ANY DEFICIENCIES, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE ANMOMETER CM HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
1. All hardware shall be 3-16 stainless steel, including lock washers. Conduit shall be Schedule 40, black or white, with an anti-oxidant compound as specified, before mating. All hardware shall be stainless steel, 3/8-inch diameter or sized to match components or log size.

2. For ground bond to steel only, insert a cadmium flat washer between lug and steel, coat all surfaces with an anti-oxidant compound before mating.

3. All steel conduit shall be bonded at both ends with grounding bushings.

4. All electrical and grounding at the pole site shall comply with the National Electrical Code (NEC), National Fire Protection Association (NFPA) 780 (latest edition), and manufacturer.

5. All details are shown in general terms. Actual grounding installation and construction may vary due to site specific conditions.

6. Ground all antenna bases, frames, cable runs, and other metallic components using #6 ground wires. Follow antenna and BTS manufacturer's practices for grounding requirements.

7. All ground connections shall be #6 AWG. Unless otherwise noted, use solid copper, black jacketed wire on non-metallic poles and solid tinned copper, #2 (20-gauge) wire on wood poles. Black wires will use a single stripe of green electrical tape 1/2" of the connection points to identify as grounding wires.

8. NOTIFY ARCHITECT/ENGINEER if there are any difficulties installing grounding system due to site soil conditions.

9. All horizontally run grounding conduits shall be installed a minimum of 48" below grade in trenches, unless otherwise noted. Back fill shall be compacted as required by architect/engineer.

10. All ground conductors shall be run as straight and short as possible, with a minimum 12" bending radius not less than 60 degrees.

11. Acceptable connections for grounding system shall be:
   a. Burned, hy-grade U.L. listed connectors for outdoor use or as approved by project engineer.
   b. Welded, exothermic welds (welded connections).
   c. One (1) or (2) holes tinned copper compression (long barrel).

12. All crimped connections shall be embossed manufacturer's mark visible at the crimp (resulting from use of proper crimping devices) and weather-proofed with heat shrink.

13. All conduit hardware shall be type 3-16 stainless steel (not attracted to magnets).

14. Electrical service equipment grounding shall comply with NEC, ARTICLE 250, Section 250-80, and all (1) and new grounding electrodes. New grounding electrode shall include but not limited to ground rings.

TESTING AND EQUIPMENT: TURN UP REQUIREMENTS:

1. RF cable, data cable, radio equipment and back haul equipment testing will comply with current industry standards and by those standards of the equipment manufacturer or specified to the contractor prior to testing.

2. Contractor will use the appropriate calibrated testing equipment in the testing of RF cable, data cable, radio equipment and back haul equipment that meet industry standards of the manufacturer or those standards specified to the contractor prior to testing.

3. Contractor to verify and record all test results and provide these results within the final close out package.

4. All personnel involved in the testing of RF cable, data cable, radio equipment and back haul equipment will be required to have been trained and or certified in the proper testing of RF cable, data cable, radio equipment and back haul equipment.

5. All test results shall be time stamped, recorded and presented prior to energizing and turn up of any equipment.

6. GPS equipment (when required) is not to be tested or attached to any cab during testing, doing so will damage the GPS unit.

7. Prior to testing if the contractor has any questions about the testing procedures they are to call and obtain assistance from a qualified designated testing representative.

8. Equipment is not to be energized until all testing has been completed, approved and the appropriate authority has been notified and given approval to energize the equipment.

SITE WORK NOTES:

1. Do not excavate or disturb beyond the property lines or lease lines, unless otherwise noted.

2. Size, location and type of any underground utilities or improvements shall be accurately noted and placed on as-built drawings by general contractor and issued to architect/engineer at completion of project.

3. All (3) utilities, facilities, conditions and their dimensions shown on plans have been plotted from available records. The engineer and architect shall verify the accuracy and completeness of the information shown on the plans of the manner of hidden or removed. The contractor shall be responsible for determining exact location of all (3) utilities and facilities prior to start of construction. Contractor to obtain start from each utility company detailed information relative to working schedules and methods of removing or adjusting (3) utilities.

4. Contractor shall verify all (3) utilities both horizontally and vertically prior to start of construction. Any discrepancies or doubts as to the interpretation of plans shall be immediately reported to the architect/engineer or mobility for resolution and instruction, and no further work shall be performed until the discrepancy is checked and corrected to the satisfaction of the contractor. Failure to secure such instruction means contractor will have worked at their own risk and cost. Contractor to notify utility locate not right, such as B1, for utility locations a minimum of 48" away from the center of construction.

5. All new and (3) utility structures on site and in areas to be disturbed by construction shall be adjusted to finish elevations prior to final inspection of work. Any cost related to adjusting (3) structures shall be borne solely by the contractor.

6. Grading of the site work area is to be smooth and continuous in slope and is to feather into (3) grades at the grading limits.

7. All temporary excavations for the installation of foundations, utilities, etc. shall be properly laid back or braced in accordance with correct occupational safety and health administration (OSHA) requirements.

8. It is a violation of the act for any contractor to request or receive prior to the date of sign-off, a copy of any material or equipment specification or drawing issued by the architect or engineer that is not shown on the plans. A copy of each material or equipment specification or drawing issued by the architect or engineer and not shown on the plans is to be immediately returned to the architect or engineer.

9. Any changes from the plans and specifications shall require written approval of the architect or engineer. This change order form must be completed and signed by the architect or engineer and then submitted to the contractor prior to the start of construction.

10. No change in the plans and specifications shall be made or noted by the contractor, architect or engineer without written approval by the architect or engineer.
SITE WORK NOTES CONTD

8. STRUCTURAL SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY, UNLESS OTHERWISE NOTED.

9. NEW GRDES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.

10. ALL FILLS SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.

11. ANY FILLS PLACED ON (E) SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCH'D INTO THE (E) SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.

12. CONTRACTOR SHALL CLEAN ENTIRE SITE BEFORE CONSTRUCTION SUCH THAT NO DEBRIS OR DEBRIS PILES THAT WILL BE LEFT ON THE SITES. IF ANY OTHER DEPOSITS WILL BE LEFT ON THE SITES, ALL MACHINERY USED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.

13. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.

14. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH THE COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES. ROADWAYS AND WALKWAYS SHALL BE EROSION AND SEDIMENTATION CONTROLS BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.

3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEEPAGE, FILL, CONTROL FENCING AND PROTECTIVE MEASURES AS REQUIRED BY THE LOCAL JURISDICTION WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.

4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ACCURATE MEASUREMENTS FOR CONSTRUCTING EROSION. ADDITIONAL LANDSUPPORT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.

5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SEEP AND EROSION CONTROL MEASURES MAINTAINED ON THE SITE. ALL EXCESS WATER FROM THE SITE HYDRAULICALLY CONNECTION TO ADJACENT PROPERTY AS A MESS OF DRAINAGE WILL BE CROSSED AT THE CONTRACTOR'S EXPENSE.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEEP CONTROLS MEASURES INCLUDING SEEPAGE REMOVAL AS NECESSARY.

7. CLEARING OF VEGETATION AND TREES REMOVAL SHALL BE ONLY AS PERMITTED AND AS NECESSARY, AND IN THE WORKER, ONLY TREE NEEDED FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.

8. SEEDING AND MULCHING AND/OR SEEDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.

9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCELERATION OF SOIL AND SILT IN STREAM AND DRAINAGE LEAVING UNSTABLE CONDITIONS.

10. IN ANY AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, SOILS, Russian, AND/OR OTHER DISTURBANCES FROM EMBANKMENTS AND/or OTHER DETERMINED MATERIALS OF SIZE, E.g., LARGE, COST, OR ALLOWED MATERIALS, OR ALKALI OR OTHER OCCURRENCE materials.

11. IN AREAS WHICH (E) GRAVEL SURFACING IS REMOVED OR DISTRUDED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVELS, SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTED AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CONCRACTIONS AND WAVES.

13. (E) GRAVEL SURFACING MAY NOT BE REUSED.

14. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTED AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE PROPERLY COMPACTED AND SMOOTHED. GRAVEL SURFACING MATERIALS THAT ARE APPROVED FOR USE IN THE SUB GRADE OR IN ANY AREA THAT IS SUBJECT TO COMPACTED OR APPROVED SELECTED MATERIAL. GRAVEL SUBGRADE MATERIAL SHALL NOT BE USED FOR FILLING DEFORMATIONS IN THE SUB GRADE.

15. PROJECT (E) GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS MAY OPERATE, USE PLANNING MATERIALS OR OTHER APPROPRIATE PROFILES DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO (E) GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS.

16. DAMAGE TO (E) STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.

17. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. THOSE TOPSOIL AND UNDISTURBED MATERIALS SHALL BE APPROVED BY GOVERNMENT AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.