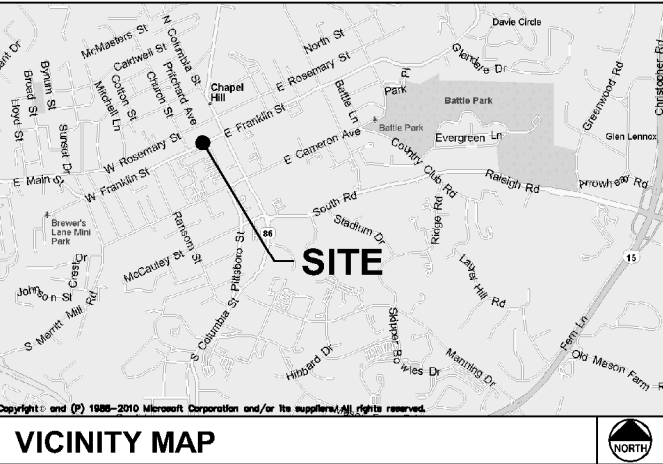


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FROM CHARLOTTE OFFICE:
1. Depart Research Dr toward NC-24 W / W WT Harris Blvd. 0.4 mi
2. Turn left onto NC-24 E / W WT Harris Blvd. 0.5 mi
3. Take ramp left for I-85 N. 75.2 mi
4. At exit 120A, take ramp right for US-70 East / US-29 North / I-85-BR North toward Greensboro. 11.9 mi
5. Keep straight onto I-85 N / I-40 E. 30.6 mi
6. Keep right onto I-40 E. 7.6 mi
7. At exit 266, take ramp right for NC-86 toward Chapel Hill. 0.3 mi
8. Bear right onto NC-86 S / Martin Luther King Jr Blvd. 4.0 mi
9. Turn right onto W Franklin St. 0.1 mi
10. Arrive at W Franklin St.

DRIVING DIRECTIONS



8921 RESEARCH DRIVE
CHARLOTTE, NC 28262

CARO SQUARE

SITE ADDRESS

140 W. FRANKLIN STREET
CHAPEL HILL, NC 27516
ORANGE COUNTY
LATITUDE: 35° 54' 46.1" N
LONGITUDE: 79° 03' 27.2" W

MUNICIPALITY:
TOWN OF CHAPEL HILL

STATE:
NORTH CAROLINA

TOWER TYPE:
EXISTING BUILDING ROOFTOP

BUILDING HEIGHT:
T/O ROOF PARAPET: 99'-4" (576.4' A.M.S.L)
HIGHEST APPURTENANCE: 108.7' AGL (586.0' A.M.SL)

NUMBER OF CARRIERS:
1 PROPOSED

USE:
ROOFTOP PLATFORM AND UNMANNED
TELECOMMUNICATIONS EQUIPMENT

CONSULTANT
KIMLEY-HORN AND ASSOCIATES, INC.
2 SUN COURT, SUITE 450
PEACHTREE CORNERS, GEORGIA 30092
PHONE: (678) 710-9394
ATTN.: DAVID FRANKLIN

PROJECT SUMMARY

DEVELOPER
VERIZON WIRELESS
8921 RESEARCH DRIVE
CHARLOTTE, NC 28262
PHONE: (704) 577-8785
ATTN: MICHAEL HAVEN

POWER COMPANY
DUKE ENERGY
PHONE: (800) 777-9898
ATTN.: CUSTOMER SERVICE

TELEPHONE COMPANY
AT&T
PHONE: (866) 620-6900
ATTN.: CUSTOMER SERVICE

PROPERTY OWNER
140 W FRANKLIN CONDOMINIUM ASSOCIATION
140 W. FRANKLIN STREET
CHAPEL HILL, NC 27516
PHONE: (919) 942-3381
ATTN.: KELLY LOBAS

CONTACTS

NOTE:
SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD
HAZARD AREA PER F.I.R.M. COMMUNITY PANEL
3710978800J DATED 02/02/2007.

SHEET	DESCRIPTION	REV.
T1	COVER SHEET	0
N1	GENERAL NOTES	0
C1	ROOFTOP LAYOUT PLAN	0
C2	PLATFORM LAYOUT PLAN	0
C3	CABLING AND ANTENNA DETAILS	0
C4	BUILDING ELEVATION	0

SHEET INDEX

TOWN OF CHAPEL HILL - DEVELOPMENT SERVICES
FIRST FLOOR, TOWN HALL
405 MARTIN LUTHER KING JR. BLVD.
CHAPEL HILL, NC 27514
PHONE: (919) 969-5072
ATTN.: PHIL MASON

PERMIT INFORMATION

verizon
8921 RESEARCH DRIVE
CHARLOTTE, NC 28262

PROJECT INFORMATION:
VERIZON NAME:
CARO SQUARE
140 W. FRANKLIN STREET
CHAPEL HILL, NC 27516
ORANGE COUNTY

CURRENT ISSUE DATE:
09/15/17

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REV.:	DATE:	ISSUED FOR:	BY:
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CONSULTANT:
Kimley»Horn
2 SUN COURT, SUITE 450
PEACHTREE CORNERS, GA 30092
PHONE: 770-825-0744
WWW.KIMLEY-HORN.COM
NC License F-0102

CONSULTANT:

DRAWN BY:CHK.:APV.:
KAGKRM DMF

LICENSER:

SHEET TITLE:
COVER SHEET

SHEET NUMBER:REVISION:
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1.00 GENERAL NOTES

- 1.01 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND OR REGULATIONS APPLICABLE TO THIS PROJECT.
- 1.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT MANAGER AND/OR ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH WORK. WHERE THERE IS A CONFLICT BETWEEN DRAWING AND VERIZON SPECIFICATIONS, THE VERIZON PROJECT ENGINEER SHOULD BE CONTACTED FOR CLARIFICATION.
- 1.03 ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/OR ENGINEER SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/OR ENGINEER.
- 1.04 CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH SITE CONDITIONS AS SHOWN ON THE ATTACHED SITE PLAN AND/OR SURVEY DRAWINGS.
- 1.05 ANTENNA CABLE AND CONDUIT RUNS SHOWN ON ROOF PLAN ARE DIAGRAMMATIC. CONTRACTOR/ INSTALLER SHALL COORDINATE ROUTING IN FIELD WITH PROPERTY OWNER AND VERIZON PRIOR TO CONSTRUCTION. CONTRACTOR TO OBTAIN (AND/ OR CONFIRM) ANTENNA MAKE AND MODEL INFORMATION FROM VERIZON WIRELESS CONSTRUCTION MANAGER.
- 1.06 CONTRACTOR TO VERIFY EXACT SIZE AND LOCATION OF EXISTING BUILDING COLUMNS (AND/ OR LOAD BEARING WALLS) IN LOCATION OF PROPOSED STRUCTURAL STEEL EQUIPMENT PLATFORM.
- 1.07 DIMENSIONS AND INFORMATION SHOWN RELATIVE TO EXISTING STRUCTURE AND CONDITIONS ARE GIVEN AS BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/ OR ENGINEER SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION TO DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/ OR ENGINEER.
- 1.08 CONTRACTOR TO VERIFY LOCATION OF EXISTING ROOF VENTS AND OTHER EXISTING PENETRATIONS WITH RESPECT TO THE PROPOSED EQUIPMENT PLATFORM. CONTACT THE ENGINEER IMMEDIATELY IF THERE IS A CONFLICT.
- 1.09 PROPOSED PLATFORM AND EQUIPMENT ON THE PLATFORM WILL NOT BE VISIBLE FROM STREET LEVEL.
- 1.10 INSTALLATION AND ROUTE OF CONDUIT FOR POWER AND TELCO ON THE ROOF SHALL BE APPROVED BY THE BUILDING OWNER.

2.00 GENERAL STRUCTURAL NOTES

- 2.01 DESIGN: 2012 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA AMENDMENTS.
- 2.02 STRUCTURAL STEEL W SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 GR. 50. TUBING SHALL CONFORM TO ASTM A-500 GR. B. PIPE SHALL CONFORM TO ASTM A53 GR. B. CHANNELS AND ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED.
- 2.03 ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATIONS FOR BUILDINGS, LATEST EDITION.
- 2.04 WELDING SHALL BE DONE BY AN AWS CERTIFIED WELDER AND IN COMPLIANCE WITH AWS D1.1 ALL WELDS SIZES SHALL BE THE MAXIMUM ALLOWED BY THE MATERIAL BEING WELDED WITH E70XX ELECTRODES.
- 2.05 UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE FULL DEPTH CONNECTIONS MADE WITH ¾” DIAMETER HIGH STRENGTH BOLTS (ASTM A325-X).
- 2.06 CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
- 2.07 HOT DIP GALVANIZE ALL STRUCTURAL STEEL, GRATING, HANDRAILS, AND HARDWARE. TOUCH UP ALL FIELD WELDS AND ABRADED AREAS WITH GALVANIZING PAINT. REPAIR OF ABRADED OR UNCOATED AREAS SHALL CONFORM TO THE LATEST VERSION OF ASTM A780-93A.
- 2.08 GALVANIZED STEEL SUBJECTED TO FIELD WELDING FOR STRUCTURAL CONNECTIONS SHALL BE PROPERLY PREPARED FOR A MINIMUM DISTANCE OF 1 INCH FROM THE WELD. APPROVED METHODS OF PREPARATION INCLUDE USING SUITABLE MASKING MATERIALS PRIOR TO GALVANIZING IN THE SHOP OR GRINDING THE COATING OFF IN THE FIELD. AFTER WELDING, APPLY EPOXY ZINC COATING SYSTEM SHERWIN-WILLIAMS AEROSOL ZINC CLAD 5 OR ENGINEER APPROVED EQUAL PER MANUFACTURER’S RECOMMENDATIONS.
- 2.09 CONTRACTOR / STEEL FABRICATOR SHALL VERIFY ALL DIMENSIONS, EXISTING COLUMN LOCATIONS, AND LOAD BEARING COLUMNS AS REQUIRED BEFORE FABRICATION OF ANY STEEL.
- 2.10 CONTRACTOR / STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANCE TO THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- 2.11 ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE. STRUCTURAL STEEL SHALL NOT BE FLAME CUT UNDER ANY CIRCUMSTANCES WITHOUT APPROVAL OF THE ENGINEER.
- 2.12 CONTRACTOR / STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES/TUBES AS REQUIRED TO PREVENT RAINWATER INTRUSION.
- 2.13 CONTRACTOR / STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER’S REVIEW PRIOR TO ANY STEEL FABRICATION. AT THE CONTRACTOR’S OPTION, FIELD SPLICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPLICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE ALL DETAILS FOR THE PROPOSED FIELD SPLICES.
- 2.14 AT THE CONTRACTORS OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS.
- 2.15 GRATING SHALL BE 1¼”X¾” MCNICHOLS (OR APPROVED EQUAL). GRATING TO BE ATTACHED TO THE STRUCTURAL STEEL PLATFORM FRAMING USING STANDARD GRATING CLIPS IN ACCORDANCE WITH GRATING MANUFACTURERS’ STANDARDS AND RECOMMENDATIONS.

3.00 ROOFING NOTES

- 3.01 ALL WORK RELATED TO CUTTING AND PATCHING OF EXISTING ROOFING WHICH ARE REQUIRED FOR THE PROPER PERFORMANCE OF THE WORK SHALL BE PERFORMED BY A LICENSED ROOFING CONTRACTOR APPROVED AS A "CERTIFIED APPLICATOR" BY THE ISSUER OF THE EXISTING ROOFING WARRANTY(S), PROVIDE PROOF OF LICENSE, AND CERTIFICATION. ALL ROOFING AND PENETRATIONS SHALL BE PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE NCRA ROOFING AND WATERPROOFING MANUAL.
- 3.02 THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL PROVISIONS OF THE EXISTING ROOF WARRANTY(S) TO ENSURE THAT ANY AND ALL WARRANTIES REMAIN IN EFFECT FOR THEIR FULL WRITTEN DURATION. THE CONTRACTOR SHALL PROVIDE EVIDENCE THAT THE ROOFING WARRANTY ISSUER HAS BEEN PROPERLY NOTIFIED OF THE PROPOSED WORK AND ALL PRE-CONSTRUCTION OR FOLLOW-UP INSPECTIONS REQUIRED BY THE WARRANTY ISSUER HAVE BEEN MADE.
- 3.03 THE CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION DURING DEMOLITION AND CUTTING OR PATCHING OF THE ROOF. DO NOT PERFORM ANY ROOFING UNDER CONDITIONS OF INCLEMENT WEATHER.
- 3.04 DO NOT APPLY ROOFING MEMBRANE TO DAMP DECK SURFACES. DO NOT EXPOSE MATERIALS VULNERABLE TO WATER OR SUN DAMAGE IN QUANTITIES GREATER THAN CAN BE WEATHERPROOFED THE SAME DAY.
- 3.05 PATCHING OF EXISTING ROOFING SHALL EXTEND 36” BEYOND AREA AFFECTED BY THE NEW WORK TO ENSURE ADEQUATE WATERTIGHT INTERFACE WITH EXISTING ROOFING. REPLACE EXISTING INSULATION WITH NEW INSULATION TO MATCH EXISTING IN TYPE, THICKNESS AND SLOPE. ALL NEW MATERIALS SHALL BE COMPATIBLE WITH EXISTING ROOFING AND SHALL BE OF SIMILAR ROOF SYSTEM TYPE.
- 3.06 ALL PENETRATIONS THROUGH EXISTING FLOORS, WALLS AND ROOF SLABS FOR ELECTRICAL CONDUITS, PIPES, ETC. REQUIRED AS PART OF THIS WORK SHALL BE PATCHED WITH UL APPROVED FIRE STOPPING CAULKING AS MANUFACTURED BY 3M (OR APPROVED EQUAL).



PROJECT INFORMATION:

VERIZON NAME:
CARO SQUARE

140 W. FRANKLIN STREET
CHAPEL HILL, NC 27516
ORANGE COUNTY

CURRENT ISSUE DATE:

09/15/17

ISSUED FOR:

ZONING

REV.:DATE:ISSUED FOR:BY:

0	09/15/17	ZONING	DMF

CONSULTANT:

Kimley»Horn

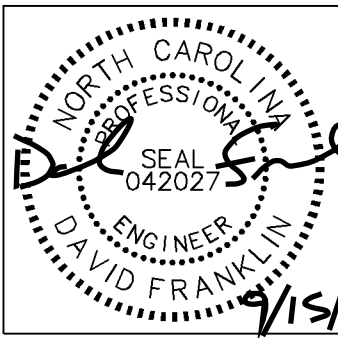
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NC License F-0102

CONSULTANT:

DRAWN BY:CHK.:APV.:

KAG	KRM	DMF
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LICENSER:



SHEET TITLE:

GENERAL
NOTES

SHEET NUMBER:REVISION:

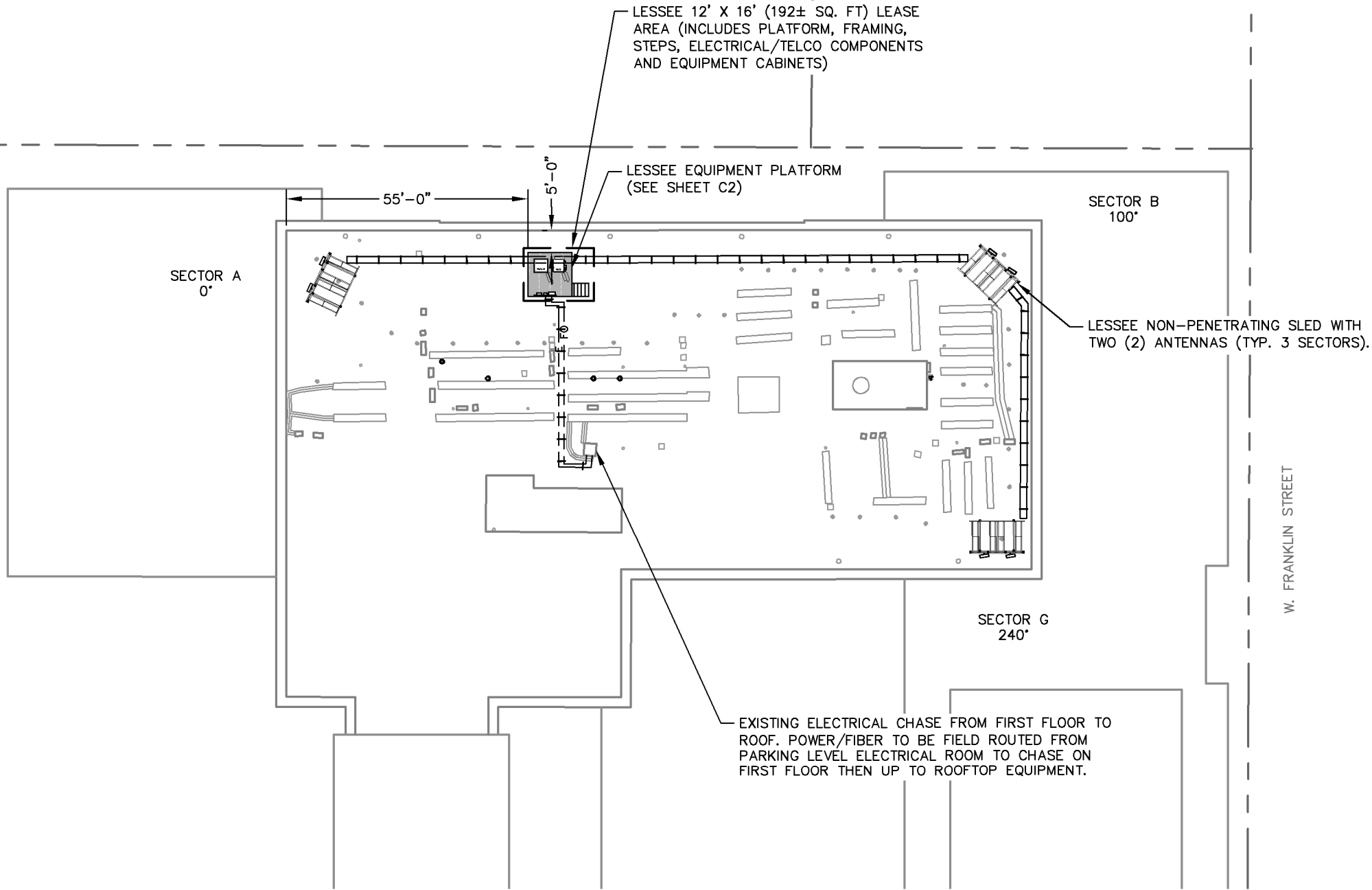
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WEST ROSEMARY STREET

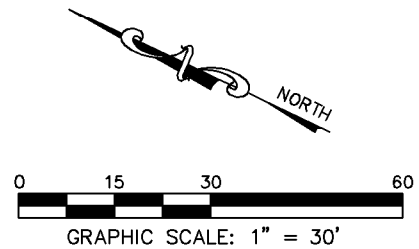


1 OVERALL SITE PLAN
C1 SCALE: 1" = 30'

SURVEY NOTE:

1. VERIZON WIRELESS STAFF SHALL COORDINATE WITH THE PROPERTY OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT ON THE ROOFTOP.

2. PROPOSED ROOFTOP LAYOUT BASED ON SURVEY PROVIDED BY DANIEL D. EVANS DATED 01/02/17 AND SITE VISIT ON 12/21/16.



verizon
8921 RESEARCH DRIVE
CHARLOTTE, NC 28262

PROJECT INFORMATION:

VERIZON NAME:
CARO SQUARE

140 W. FRANKLIN STREET
CHAPEL HILL, NC 27516
ORANGE COUNTY

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0	09/15/17	ZONING	DMF

CONSULTANT:

Kimley»Horn

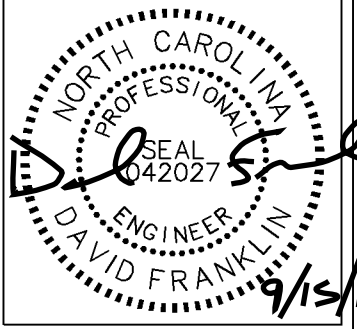
2 SUN COURT, SUITE 450
PEACHTREE CORNERS, GA 30092
PHONE: 770-825-0744
WWW.KIMLEY-HORN.COM
NC License F-0102

CONSULTANT:

DRAWN BY: CHK.: APV.:

KAG KRM DMF

LICENSER:



SHEET TITLE:

**ROOFTOP
LAYOUT PLAN**

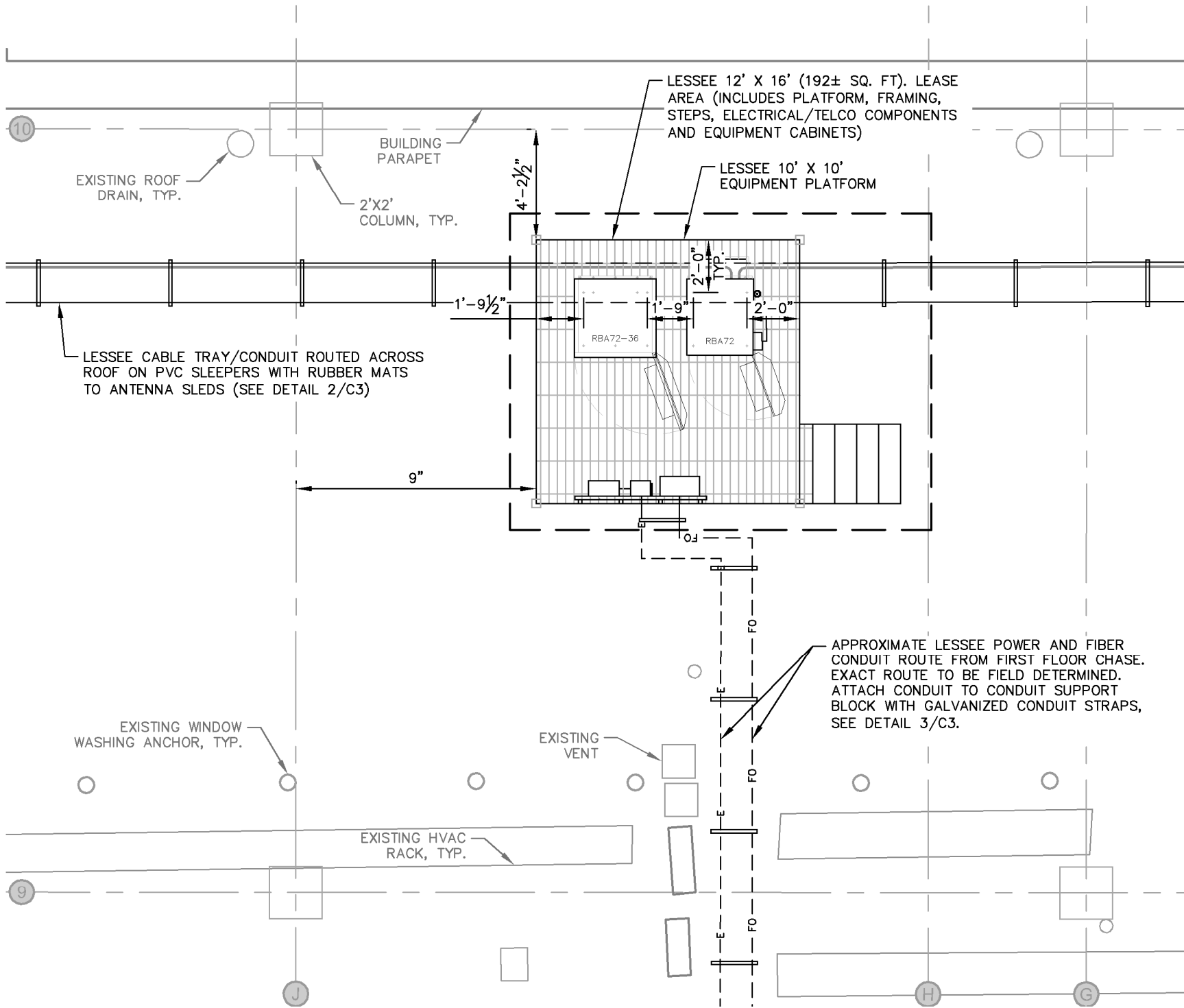
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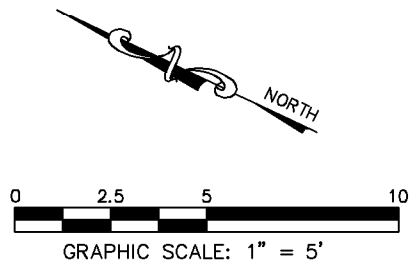
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C2 **EQUIPMENT LAYOUT PLAN**
SCALE: 1" = 5'

EQUIPMENT PAD NOTES:

1. REFER TO THE ROOFTOP LAYOUT PLAN ON SHEET C1 FOR EQUIPMENT PAD LOCATION AND ORIENTATION.

SITE NOTES:

1. VERIZON WIRELESS STAFF SHALL COORDINATE WITH THE PROPERTY OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT ON THE ROOFTOP.
2. PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY DANIEL D. EVANS DATED 11/29/16 AND SITE VISIT ON 12/21/16.
3. CONTRACTOR TO CONFIRM WITH VERIZON CONSTRUCTION MANAGER THAT THE EQUIPMENT SHOWN HAS BEEN ORDERED/SCHEDULED FOR DELIVERY TO THIS SITE.
4. THE BASIS OF EQUIPMENT DESIGN INCLUDES ONE (1) COMMSCOPE RBA72-36 BATTERY CABINET AND ONE (1) COMMSCOPE RBA72 RF CABINET.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND MODIFYING SCOPE OF WORK TO ACCOMMODATE ANY CHANGES IN THE EXACT EQUIPMENT PROCURED BY VERIZON WIRELESS. COORDINATE ANY CHANGES WITH VERIZON WIRELESS CONSTRUCTION MANAGER.



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Kimley»Horn

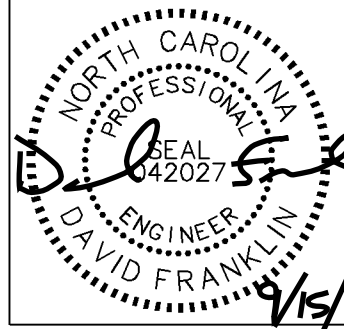
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CONSULTANT:

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LICENSER:



SHEET TITLE:

**EQUIPMENT
LAYOUT PLAN**

SHEET NUMBER: REVISION:

C2

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ANTENNA SECTOR	AZIMUTH IN DEGREES	MECHANICAL DOWN TILT	LICENSED FREQUENCY	ANTENNA* (QTY) MAKE/MODEL	REMOTE RADIO UNIT	COMPOSITION CABLES			TOTAL HYBRID
						LENGTH	QTY	COAX SIZE	
A1	0°	0°	850	(1) JMA WIRELESS/XBCAA00F860RT	(2) RRUS12-B5				3
A2	0°	0°	1900	SHARED W/ A1	RRUS32				
A3	0°	0°	2100	SHARED W/ A4	RRUS32				
A4	0°	0°	700	(1) JMA WIRELESS/XBCAA00F860RT	(2) RRUS12-B13				
B1	100°	0°	850	(1) JMA WIRELESS/MX08FIT845-02	(2) RRUS12-B5				
B2	100°	0°	1900	SHARED W/ B1	RRUS32				
B3	100°	0°	2100	SHARED W/ B4	RRUS32				
B4	100°	0°	700	(1) JMA WIRELESS/MX08FIT845-02	(2) RRUS12-B13				
G1	240°	0°	850	(1) JMA WIRELESS/MX08FIT845-02	(2) RRUS12-B5				
G2	240°	0°	1900	SHARED W/ G1	RRUS32				
G3	240°	0°	2100	SHARED W/ G4	RRUS32				
G4	240°	0°	700	(1) JMA WIRELESS/MX08FIT845-02	(2) RRUS12-B13				

1

C3

ANTENNA SCHEDULE

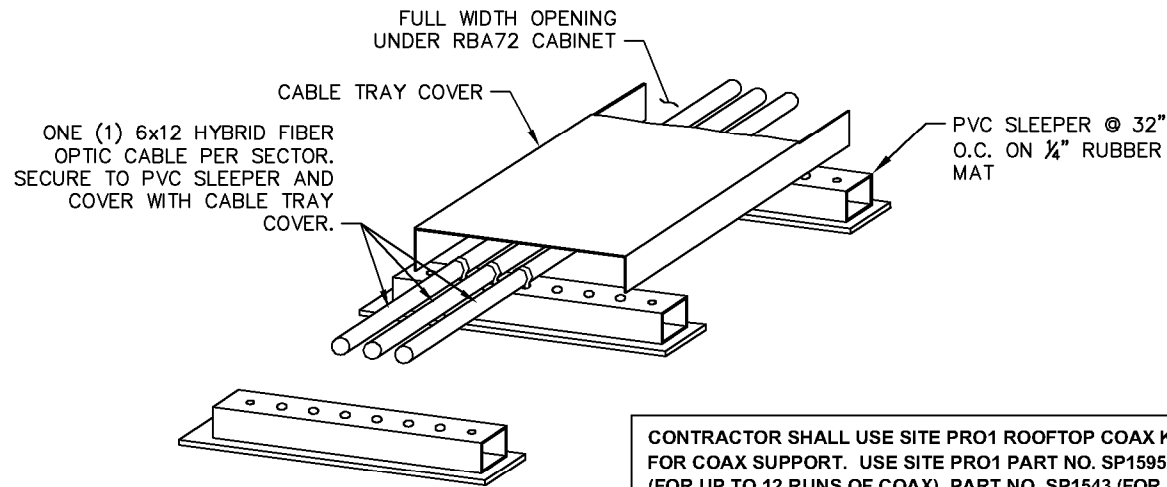
NO SCALE

ANTENNA NOTE:

- CONTRACTOR TO INSTALL ANY NECESSARY RF BARRIERS AS REQUIRED BY VERIZON WIRELESS PER FCC GUIDELINES TO MINIMIZE ACCESS/ EXPOSURE TO ANTENNAS.
- VERIFY WITH VERIZON WIRELESS PROJECT MANAGER PRIOR TO CONSTRUCTION.

NOTE:

CABLE TRAY COVERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION PROCEDURES AND INSTRUCTIONS FOR HIGH WIND CONDITIONS. THIS INCLUDES CONNECTOR TYPES AND SPACINGS.

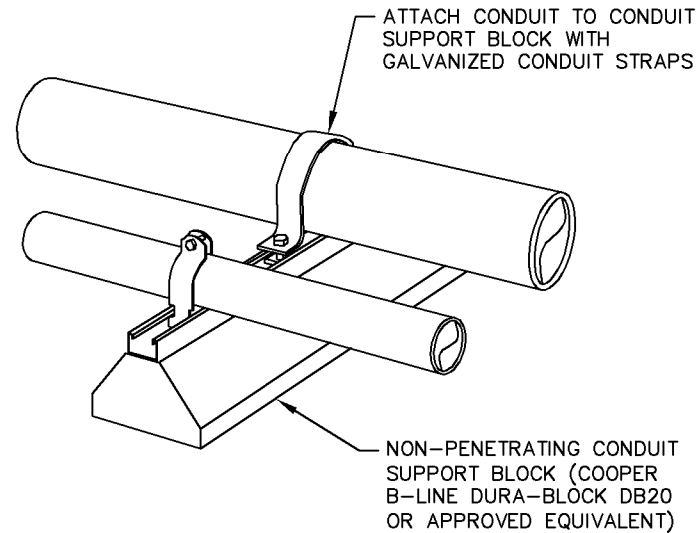


2

C3

CABLE SUPPORT ON ROOF

NO SCALE



3

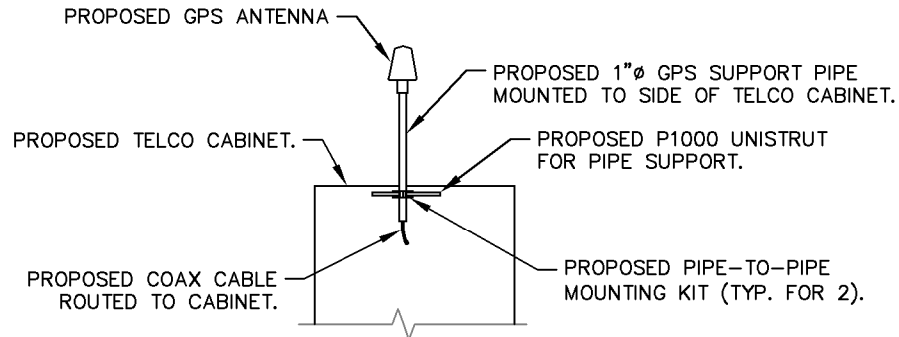
C3

ROOFTOP CONDUIT SUPPORT

NO SCALE

NOTES:

- CONTRACTOR TO SUPPLY ALL MATERIALS UNLESS OTHERWISE NOTED.
- GPS ANTENNA MUST BE IN A LOCATION TO BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF 4 SATELLITES.
- LOCATION OF ANTENNA MUST BE IN CLEAR VIEW OF THE SKY, WITHOUT ANY OBSTRUCTION OR BLOCKAGE EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.



4

C3

GPS ANTENNA ATTACHMENT DETAIL

NO SCALE

verizon

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CHARLOTTE, NC 28262

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CONSULTANT:

Kimley»Horn

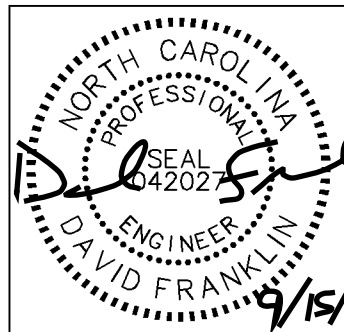
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CONSULTANT:

DRAWN BY: CHK.: APV.:

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LICENSER:



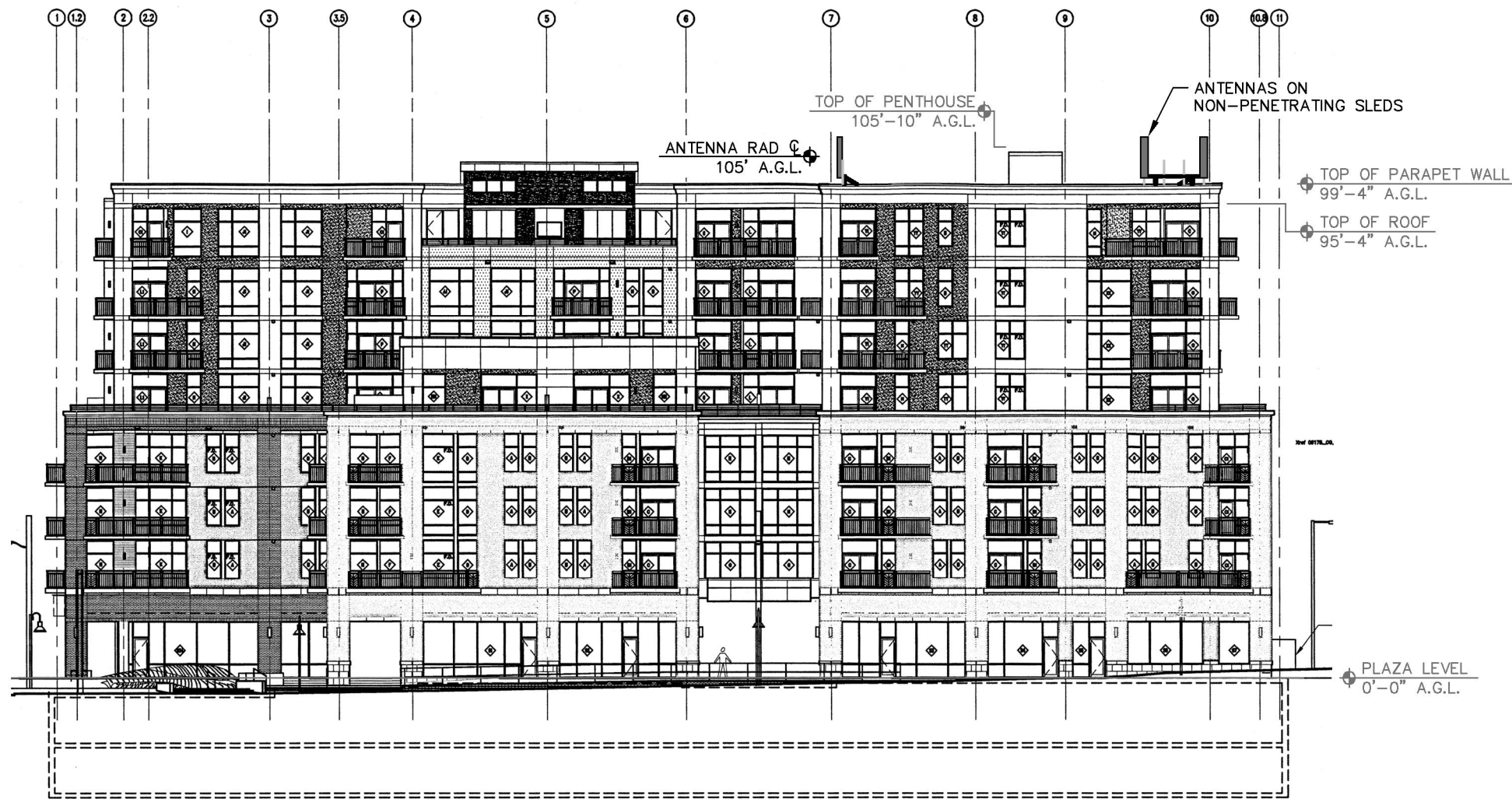
SHEET TITLE:

CABLING AND
ANTENNA DETAILS

SHEET NUMBER: REVISION:

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2
C4 **SOUTH ELEVATION**
NO SCALE

verizon

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CHARLOTTE, NC 28262

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0	09/15/17	ZONING	DMF

CONSULTANT:

Kimley»Horn

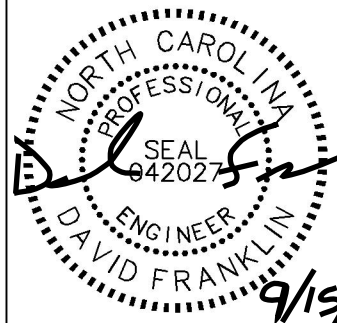
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PHONE: 770-825-0744
WWW.KIMLEY-HORN.COM
NC License F-0102

CONSULTANT:

DRAWN BY: CHK.: APV.:

KAG KRM DMF

LICENSER:



SHEET TITLE:

**BUILDING
ELEVATION**

SHEET NUMBER: REVISION:

C4

0

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