# verizon<sup>v</sup>

8921 RESEARCH DRIVE CHARLOTTE, NC 28262

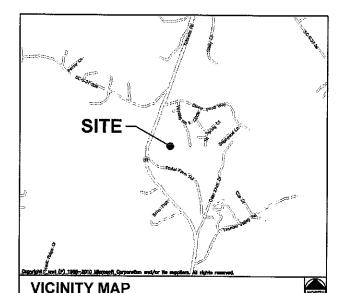
### SITTON

### SITE ADDRESS

PRATER FARM ROAD **SENECA, SC 28676** OCONEE COUNTY

LATITUDE: 34° 36' 45.442" N LONGITUDE: 82° 58' 49.489" W

TAX/PIN #: 2910002012 **ZONING: UNZONED** 



FROM CHARLOTTE OFFICE: START OUT GOING SOUTHWEST ON RESEARCH DRIVE TOWARDS HARRIS BLVD, FOR 0.4 MI: TURN LEFT ONTO W. WT HARRIS BLVD. / NC-24-E, FOR 0.3 MI; TURN RIGHT AND MERGE ON I-85 S. 140.3 MI; TAKE EXIT 11 AND TURN RIGHT ON SC-24 W. 10.0 MI; SLIGHT RIGHT ON CROSS ROADS DR. 0.5 MI; MERGE ON SC-59 N. 0.8 MI; TURN RIGHT ON PRATER FARM RD. 0.1 MI; DESTINATION ON THE LEFT.

**DRIVING DIRECTIONS** 

MUNICIPALITY: OCONEE COUNTY

STATE: SOUTH CAROLINA

**TOWER TYPE:** MONOPOLE TOWER

**TOWER HEIGHT:** 165' (174' TO HIGHEST APPURTENANCE)

**NUMBER OF CARRIERS:** 0 EXISTING, 1 PROPOSED

USE:

PROPOSED TELECOMMUNICATIONS TOWER AND UNMANNED EQUIPMENT

CONSULTANT

KIMLEY-HORN AND ASSOCIATES, INC. 2 SUN COURT, SUITE 450 PEACHTREE CORNERS, GEORGIA 30092 PHONE: (678) 533-3928 ATTN.: KEITH MARKLAND

PROJECT SUMMARY

**DEVELOPER** VERIZON WIRELESS 8921 RESEARCH DRIVE **CHARLOTTE, NC 28262** 

PHONE: (704) 577-8785 ATTN: MICHAEL HAVEN

POWER COMPANY DUKE POWER

PHONE: (800) 777-9898 ATTN.: CUSTOMER SERVICE

**TELEPHONE COMPANY** AT&T

PHONE: (336) 286-6000 ATTN.: CUSTOMER SERVICE

PROPERTY OR TOWER OWNER KENNETH EARL PRATER 8541 FREENY VALLEY ROAD CADDO, OK 74729 PHONE: (864) 972-9377 ATTN.: DONALD PRATER

**CONTACTS** 

SHEET	DESCRIPTION	REV.
T1	COVER SHEET	3
	SITE SURVEY (SHEET 1 OF 3)	4
	SITE SURVEY (SHEET 2 OF 3)	4
	SITE SURVEY (SHEET 3 OF 3)	4
N1	GENERAL NOTES	0
C1	OVERALL SITE PLAN	2
C2	SITE PLAN	2
C3	EQUIPMENT PAD LAYOUT	1
C4	<b>EQUIPMENT PAD FOUNDATION SECTION DETAILS</b>	1
C5	<b>EQUIPMENT PAD FOUNDATION SECTION DETAILS</b>	1
C6	FENCE, GATE, AND COMPOUND DETAILS	1
C7	GRADING AND EROSION CONTROL PLAN 1 OF 2	1
C8	GRADING AND EROSION CONTROL PLAN 2 OF 2	-1
C9	GRADING AND EROSION CONTROL DETAILS	1
C10	ACCESS ROAD DETAILS	1
C11	SITE SIGNAGE DETAILS	1
C12	WAVEGUIDE BRIDGE DETAILS	1
C13	ANTENNA AND TOWER ELEVATION DETAILS	2
L1	LANDSCAPING PLAN AND NOTES	0
EO	NOTES AND SPECIFICATIONS	1
E1	BASIC SERVICE ROUTING PLAN	1
E2	GROUNDING PLAN	1
E3	SINGLE-LINE DIAGRAM	1
E4	ELECTRICAL DETAILS	1
E5	ELECTRICAL DETAILS	1
E6	ELECTRICAL DETAILS	1
E7	GROUNDING DETAILS	1
E8	ELECTRICAL DETAILS	1
E9	ELECTRICAL DETAILS	1
E10	ELECTRICAL DETAILS	1
SHE	ET INDEX	

OCONEE COUNTY COMMUNITY DEVELOPMENT DEPT.

415 PINE ST.

ATTN.: ZONING

WALHALLA, SC 29691

PHONE: (864) 638-4218

PERMIT INFORMATION

PROJECT INFORMATION: **VERIZON NAME: SITTON VERIZON No.: TBD** PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

CURRENT ISSUE DATE:

8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA

02/16/17

CONSTRUCTION

REV.:=DATE:====SSUED FOR:= 0 11/04/14 CONSTRUCTION WCE 1 08/01/16 CONSTRUCTION WCE 2 10/21/16 CONSTRUCTION WCE 3 02/16/17 CONSTRUCTION WCE

# **Kimley Morn**

2 SUN COURT, SUITE 450
PEACHTREE CORNERS, GA 30092
PHONE: 770-825-0744
WWW.KIMLEY-HORN.COM
SC License C00166

CONSULTANT:



DRAWN BY: CHK .: = KRM

LICENSER: =

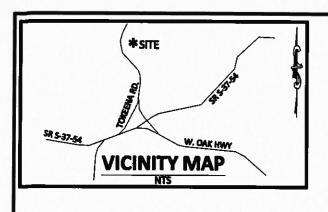
SHEET TILE:

**COVER** SHEET

SHEET NUMBER:

018985125

REVISION:



#### **LEGEND**

- b
- 4
- **IRON PIPE SET** ◉
- **COMPUTED POINT** 8



- 0 **IRON PIPE FOUND**
- **AXEL FOUND**

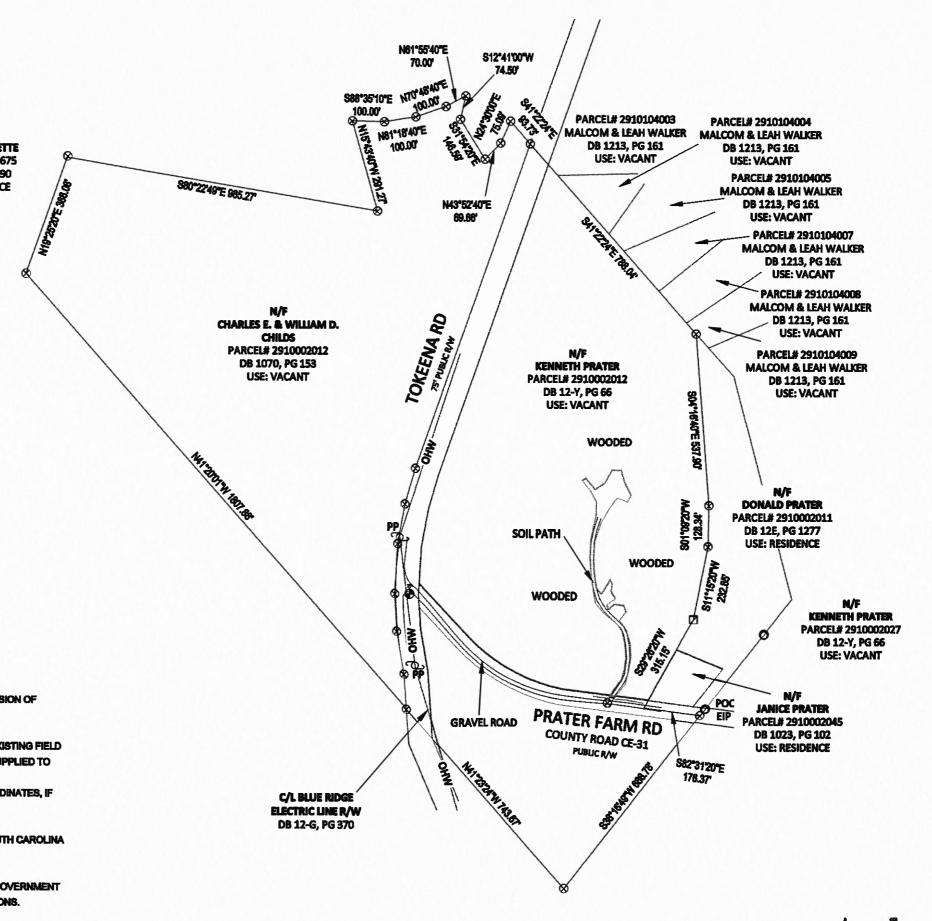
# **RONNIE BURNETTE** PIN 381007694675 DB 1730, PG 690 **USE: RESIDENCE**

### **GENERAL NOTES**

6.03,

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- 1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF JEFFREY L. BATEMAN, PLS.
- 2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
- 3. THIS IS NOT A BOUNDARY SURVEY, PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT
- 4. VERTICAL DATUM IS ASSUMED. THE LATITUDE, LONGITUDE AND STATE PLANE COORDINATES, IF SHOWN, ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (NAD83).
- 5. FIELD EQUIPMENT USED: TOPCON TOTAL STATION, EPOCH 35.
- 6. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
- 7. PROPERTY OWNER: KENNETH EARL PRATER
- 8. THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
- 9. ALL EQUIPMENT AND IMPROVEMENTS ARE LOCATED WITHIN THE LEASE AREA.
- 10. THE PROPERTY LIES IN ZONE "X", PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE PANEL 0430, RATE MAP 45073C0430C, DATED: SEPTEMBER 11, 2009.





an Civil Survey Co, PC 200 N Main St, Holly Springs, NC 27540 Phone: 919.677.1080 Page 919.677.1081 NCSLS PRIM & C-2579





DRAWN BY: JCH CHECKED BY: JLB DRAWING DATE::00/29/2014



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	DESCRIPTION	Issue Final Survey	Revise 30° lessee language	11/24/14 Address Title comments	12/10/14 Issue Final Survey		
REVISIONS	DATE	11/04/14	11/12/14	11/24/14	12/10/14		
REV	NO.	٦.	2.	ı,	4.		

SITTON SITE# 303546 PRATER FARM ROAD **SENECA, SC, 29678** OCONEE COUNTY

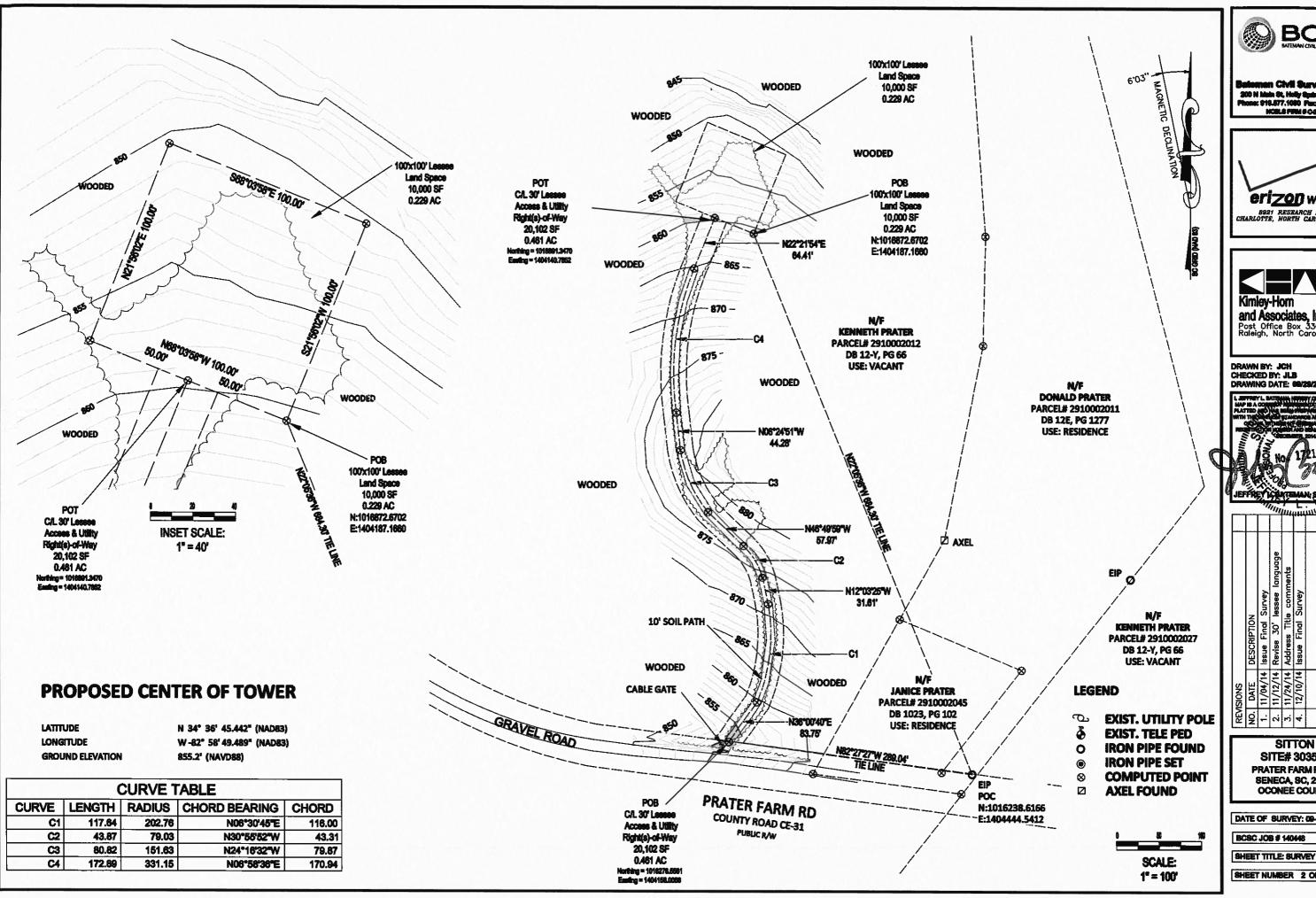
DATE OF SURVEY: 09-18-2014

BCSC JOB # 140448

SHEET TITLE: SURVEY

SCALE: 1" = 300"

SHEET NUMBER 1 OF 3





Bateman Civil Survey Co, PC 300 N Main St, Holly Springs, NC 27540 Phone: \$10.577,1000 Fax: \$19.577,1001 NCBLB FIRM # C2378





DRAWN BY: JCH CHECKED BY: JLB DRAWING DATE: 69/29/2014



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	DESCRIPTION	11/04/14 Issue Final Survey	11/12/14 Revise 30' lessee language	11/24/14 Address Title comments	12/10/14 Issue Final Survey		
REVISIONS	DATE	11/04/14	11/12/14	11/24/14	12/10/14		
REV	ġ	-:	7	ы	4.		

SITTON SITE# 303546 PRATER FARM ROAD SENECA, SC, 29678 OCONEE COUNTY

DATE OF SURVEY: 09-18-2014

BCSC JOB # 140448

SHEET NUMBER 2 OF 3

#### C/L 30' LESSEE ACCESS & UTILITY RIGHT(S)-OF-WAY DESCRIPTION

All that certain parcel of land, situated in Seneca, Oconee County, South Carolina, being on the lands of Kenneth Prater as described in DB 12-Y, PG 66, Oconee County Records, and being more particularly described as follows:

Commencing at the SouthEastern property corner of Donald Prater and NorthEastern property corner of Kenneth Prater, Oconee County Records. said corner also being on the Northern Right-of-Way of Prater Farm Road having State Plane Coordinates N:1016238.6166, E:1404444.5412, thence N82°27'27"W, 289.04' to a point, said point being the Point of Beginning of the C/L 30' Lessee Access & Utility Right(s)-of-Way, said point having State Plane Coordinates N:1016276.5561 and E:1404158.0056; thence N36°00'40"E, 83.75' to a point of curvature; thence along a curve to the Left having a radius of 202.76', a length of 117.64', a chord of N06°30'45"E, 116.00' to a point; thence N12°03'25"W, 31.61' to a point of curvature; thence along a curve to the Left having a radius of 79.03', a length of 43.87', a chord of N30°55'52"W, 43.31' to a point: thence N46°49'59"W, 57.97' to a point of curvature; thence along a curve to the Right having a radius of 151.63', a length of 80.82', a chord of N24°16'32"W, 79.87' to a point; thence N06°24'51"W, 44.28' to a point of curvature; thence along a curve to the Right having a radius of 331.15', a length of 172.89', a chord of N06°58'36"E, 170.94' to a point; thence N22°21'54"E, 64.41' to a point; said point being the Point of Terminus of the C/L 30' Lessee Access & Utility Right(s)-of-Way having State Plane Coordinates N 1016891.3470. E 1404140.7852 Said C/L 30' Lessee Access & Utility Right(s)-of-Way contains 20,102 square feet more or less.

#### **LESSEE LAND SPACE DESCRIPTION**

All that certain parcel of land, situated in Seneca, Oconee County, South Carolina, being on the lands of Kenneth Prater as described In DB 12-Y, PG 66, Oconee County Records, and being more particularly described as follows:

Commencing at the SouthEastern property corner of Donald Prater and NorthEastern property corner of Kenneth Prater, Oconee County Records, said corner also being on the Northern Right-of-Way of Prater Farm Road having State Plane Coordinates N:1016238.6166, E:1404444.5412, thence N22°05'36"W, 684.30' to a point, the Point of Beginning of the Lessee Land Space: thence N68°03'58"W, 100.00' to a point; thence N21°56'02"E, 100.00' to a point; thence S68°03'58"E, 100.00' to a point; thence S21°56'02"W. 100.00' to a point: said point being the Point of Beginning of the Lessee Land Space. Said Lessee Land Space contains 10,000 square feet, more or less.

D: VERIZON WIRELESS

- 1. Taxes calendar year:2013 Amount: \$324.01 annually Parcel ID #: 291-00-02-012 Paid through: 2013 Assessment: \$1,370.00 (total = land and improvements, if any) (Does Not Affect Vertzon Wireless' Land Space or Rights of Way)
- 2. Plat recorded in Deed Book 40, Page 04. (As shown on Survey)
- 3. Electric Line Right-of-Way Easement In favor of: Blue Ridge Electric Cooperative, Inc. Recorded on: 08/08/1979 Recorded In: Deed Book 12-G, Page 370 (Does Not Affect Vertzon Wireless' Land Space or Rights of Way)



on Civil Survey Co, PC 200 N Mets St. Holly Springs, NC 27540 Phone: 919.577.1000 Parc 919.577,1001 HOBLE PIRM # 0-2275





DRAWN BY: JCH CHECKED BY: JLB DRAWING DATE: 09/29/2014



	DESCRIPTION Issue Final S Revise 30' I Address Title Issue Final S	11/04/14   Issue Final Survey   12/10/14   Issue Final Survey   3. 11/24/14   Address Title comments   4. 12/10/14   Issue Final Survey   12/10/14   Issue F
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SITTON SITE# 303546 PRATER FARM ROAD SENECA, SC, 29678 OCONEE COUNTY

DATE OF SURVEY: 09-18-2014

BC8C JOB # 140448

SHEET TITLE: SURVEY

SHEET NUMBER 3 OF 3

FIDELITY NATIONAL TITLE INSURANCE COMPANY

#### 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. MODIFICÁTION 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 WAVEGUIDE BRIDGE AND EQUIPMENT CABINETS ARE SHOWN FOR REFERENCE ONLY. REFER TO SEPARATE DRAWINGS FOR SPECIFIC INFORMATION.
- 1.06 ALL FINISHED GRADES SHALL SLOPE MINIMUM 1/4 IN./FT. AWAY FROM EQUIPMENT IN ALL DIRECTIONS. CONTRACTOR SHALL SLOPE SWALES AS REQUIRED ALONG EXISTING TERRAIN TO DRAIN AWAY FROM COMPOUND AND ACCESS DRIVE.
- 1.07 THE PROPOSED TOWER AND TOWER FOUNDATIONS WERE DESIGNED BY OTHERS. TOWER INFORMATION PROVIDED ON THESE PLANS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. NOTIFY ENGINEER OR PROJECT MANAGER OF ANY CONFLICTS OR DISCREPANCIES. CONTRACTOR TO OBTAIN COPY OF TOWER DESIGN DRAWINGS, IF AVAILABLE, FROM VERIZON PROJECT MANAGER TO CONFIRM COAX ROUTING AND ANTENNA MOUNT INFORMATION.
- 1.08 THE CONTRACTOR SHALL PROVIDE ADEQUATE EXCAVATION SLOPING, SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- 1.09 UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE EXISTING ACCESS ROAD AND COMPOUND GRAVEL AREAS. ANY NEW FILL MATERIALS SHALL BE COMPACTED.
- 1.10 THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND SHALL REQUEST A VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF THEIR UNDERGROUND UTILITIES AND WHERE THEY MAY POSSIBLY CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS AS SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT WILL BE REQUIRED TO NOTIFY "SOUTH CAROLINA 811" 72 HOURS IN ADVANCE OF PERFORMING ANY WORK BY CALLING THE TOLL FREE NUMBER (888) 721-7877 (OR 811). ANY UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER.
- 1.11 CONTRACTOR TO PROVIDE DUMPSTER AND PORTABLE TOILET FACILITY DURING CONSTRUCTION.
- 1.12 CONTRACTOR TO PROVIDE STYMIE LOCK OR EQUIVALENT AS APPROVED BY VERIZON PROJECT MANAGER.
- 1.13 CONTRACTOR TO PROVIDE ANY NECESSARY SIGNAGE PER VERIZON PROJECT MANAGER'S INSTRUCTIONS. SEE DETAIL ON SHEET C10.

#### 2.00 EQUIPMENT FOUNDATION NOTES

- 2.01 FOUNDATIONS ARE DESIGNED FOR A PRESUMPTIVE ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. CONTRACTOR SHALL VERIFY SOIL CONDITIONS AND BEARING CAPACITY PRIOR TO CONSTRUCTION.
- 2.02 EXCAVATE A MINIMUM 18" BELOW PROPOSED EQUIPMENT FOUNDATIONS OF EXPANSIVE, ORGANIC, UNCONSOLIDATED OR OTHERWISE UNACCEPTABLE MATERIAL AND REPLACE WITH WELL-COMPACTED MATERIAL ACCEPTABLE TO VERIZON.
- 2.03 CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION, COORDINATE ALL RELOCATIONS WITH THE PROPERTY OWNER.
- 2.04 CONTRACTOR TO CUT/FILL EXISTING COMPOUND SUBSOIL TO PROVIDE AN AREA AS LEVEL AS POSSIBLE FOR THE EQUIPMENT FOUNDATIONS. ALL FILL AREAS ARE TO BE FILLED WITH SUITABLE MATERIALS, FILL MATERIALS ARE TO BE PLACED, COMPACTED, AND TESTED IN MAXIMUM LAYERS OF 8". COMPACTION OF ALL FILL MATERIAL SHALL ACHIEVE 95 PERCENT OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D 698. ALL TESTS MUST MEET THE MINIMUM SPECIFIED SOIL BEARING CAPACITY. COMPACTION TESTING IS BY THE GEOTECHNICAL TESTING COMPANY DESIGNATED FOR THE PROJECT. SCHEDULING AND COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, REPORTS OF ALL TESTING ARE TO BE PROMPTLY DELIVERED OR FAXED TO THE VERIZON WIRELESS PROJECT
- 2.05 CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION TO ACI-318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- 2.06 CONCRETE SHALL HAVE A SLUMP BETWEEN 3" AND 6".
- 2.07 REINFORCING BARS SHALL CONFORM TO THE LATEST REVISION OF ASTM-A615 GRADE 60 SPECIFICATIONS AND BE DETAILED IN ACCORDANCE WITH THE LATEST REVISION TO ACI-318.
- 2.08 AT THE REQUEST OF THE VERIZON WIRELESS PROJECT MANAGER. TEST CYLINDERS SHALL BE MOLDED AND LABORATORY CURED IN ACCORDANCE WITH ASTM C31. THREE CYLINDERS SHALL BE TAKEN FOR EACH DAY'S CONCRETE PLACEMENT. CYLINDERS SHALL BE TESTED IN ACCORDANCE WITH THE LATEST REVISION TO ASTM C39.
- 2.09 CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 34" x 45° CHAMFER, UNLESS OTHERWISE NOTED.
- 2.10 CONCRETE FORMWORK IS TO BE STRIPPED WITHIN 48 HOURS. VIBRATION OF THE CONCRETE MUST ASSURE THAT HONEYCOMBING WILL BE AT A MINIMUM. MECHANICAL VIBRATION OF ALL CONCRETE IS REQUIRED UNLESS OTHERWISE DIRECTED BY VERIZON WIRELESS' PROJECT MANAGER. ABOVE GRADE CONCRETE IS TO BE RUBBED AND PATCHED TO ASSURE SMOOTH FINISH AT TIME OF FORMS REMOVAL, CONTRACTOR SHALL PROVIDE A BROOM FINISH ON THE TOP SURFACE OF THE EQUIPMENT FOUNDATION UNLESS OTHERWISE DIRECTED BY VERIZON WIRELESS' PROJECT MANAGER.
- 2.11 TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02' OF ELEVATION REQUIRED.
- 2.12 TOP OF FOUNDATION FINISH TO BE LEVEL ±1/2" IN 10'.
- 2.13 TOP OF FOUNDATION TO HAVE MEDIUM BROOM FINISH.
- 2.14 CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY PLACEMENT OF EQUIPMENT AND LOCATION OF CONDUIT FOR MANUFACTURER'S AND VENDORS SPECIFICATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION OF ALL UTILITIES.



8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

PROJECT INFORMATION:

**VERIZON NAME: SITTON** VERIZON No.: TBD

> PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

=CURRENT ISSUE DATE:=

08/01/16

TISSUED FOR:

CONSTRUCTION

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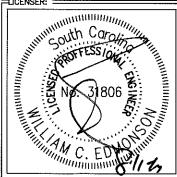
**Kimley Horn** 

2 SUN COURT, SUITE 450 PEACHTREE CORNERS, GA 30092 PHONE: 770-825-0744 WWW.KIMLEY-HORN.COM SC License C00166

=CONSULTANT:=

TH CARO KIMLEY-HOR AND ASSOCIATES, NO.C00166

=DRAWN BY:==CHK.:= KBB KRM WCE =LICENSER: =



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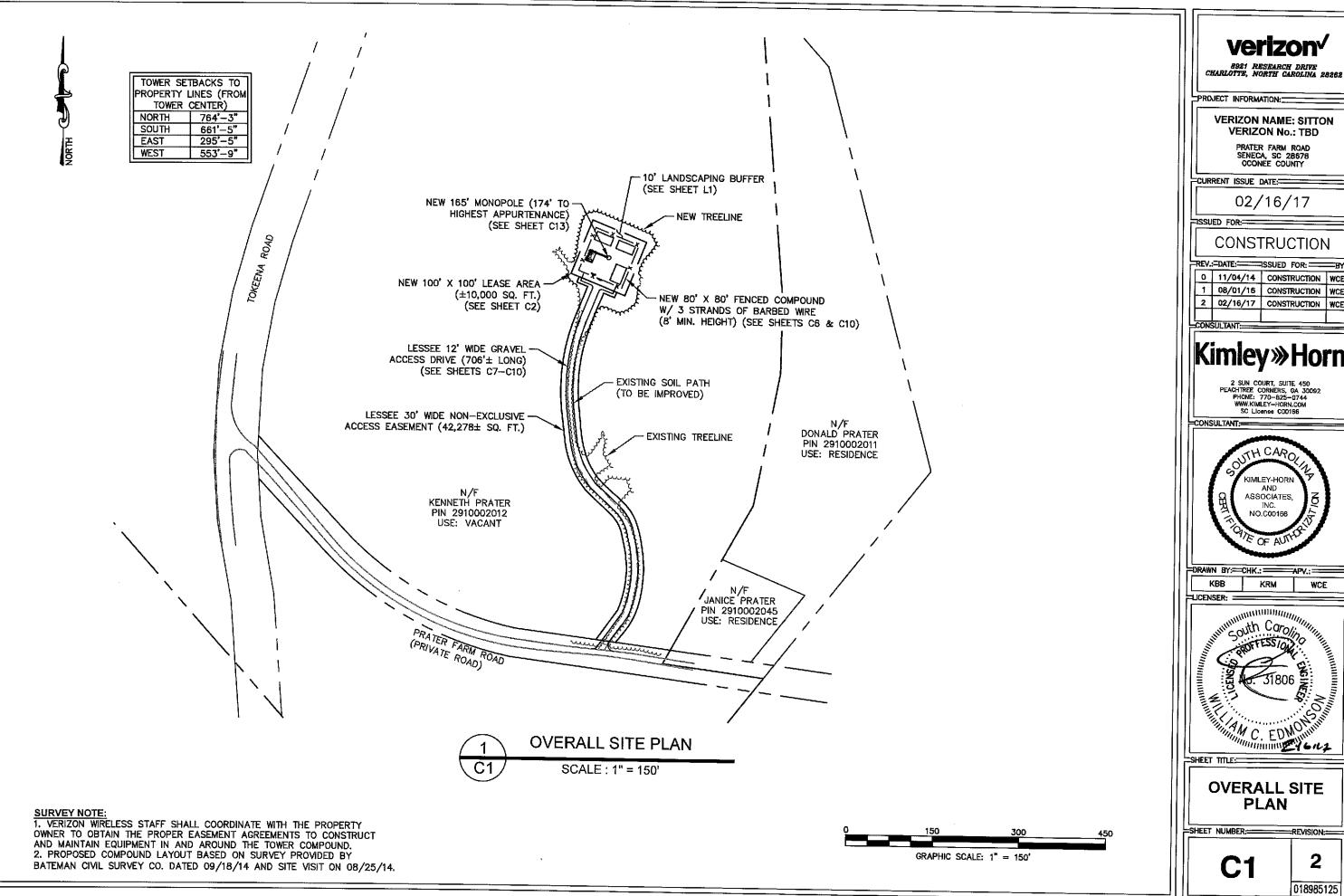
**GENERAL** NOTES

SHEET NUMBER:

018985125

REVISION:

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verizon

**VERIZON NAME: SITTON VERIZON No.: TBD** 

PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

02/16/17

CONSTRUCTION

REV.:=DATE:====SSUED FOR:= 0 11/04/14 CONSTRUCTION WCE 1 08/01/16 CONSTRUCTION WCE 2 02/16/17 CONSTRUCTION WCE

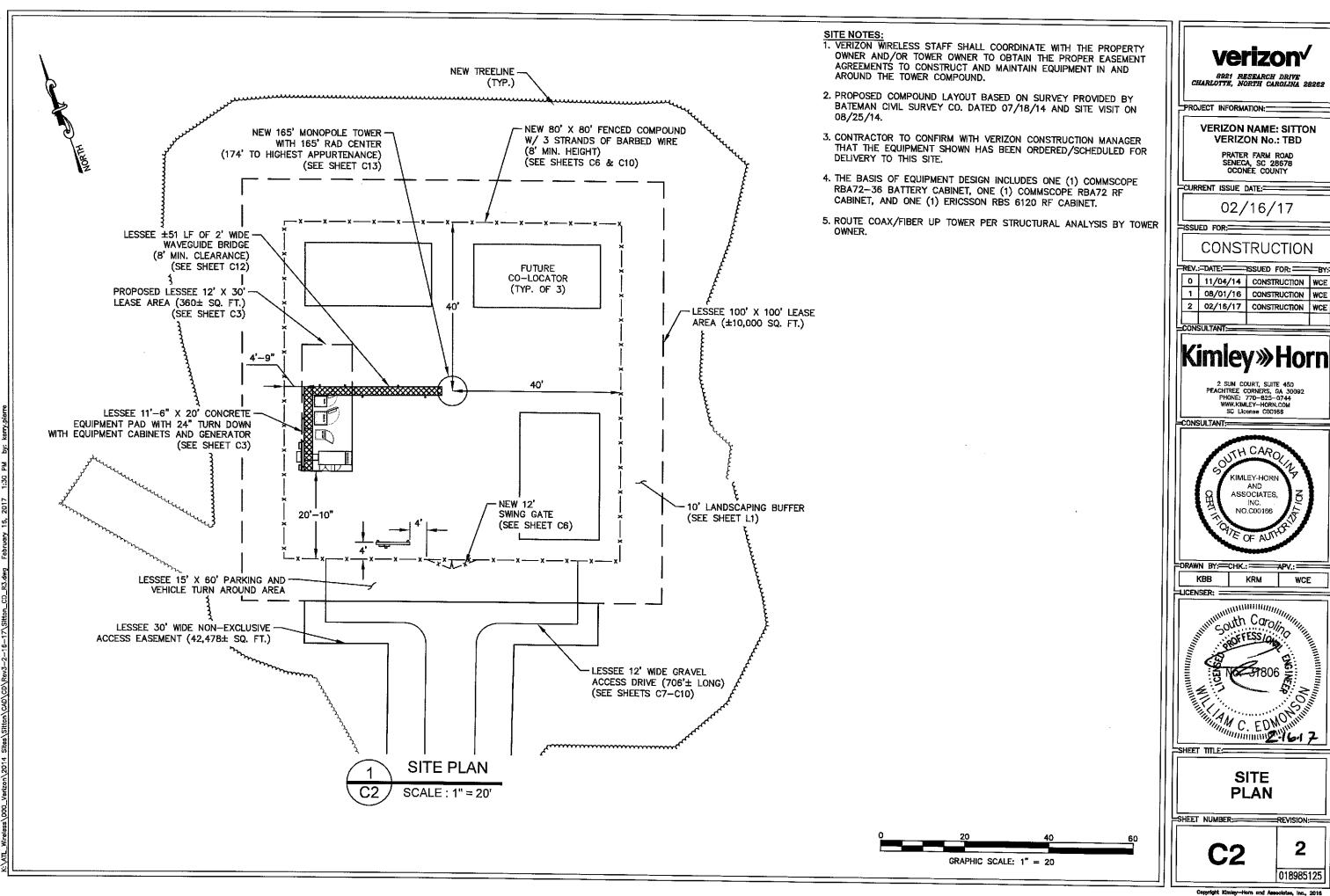
### Kimley»Horn

2 SUN COURT, SUITE 450
PEACHTREE CORNERS, GA 30092
PHONE: 770-825-0744
WWW.KIMLEY-HORN.COM
SC License C00166





**OVERALL SITE PLAN** 



verizon

**VERIZON No.: TBD** 

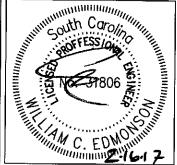
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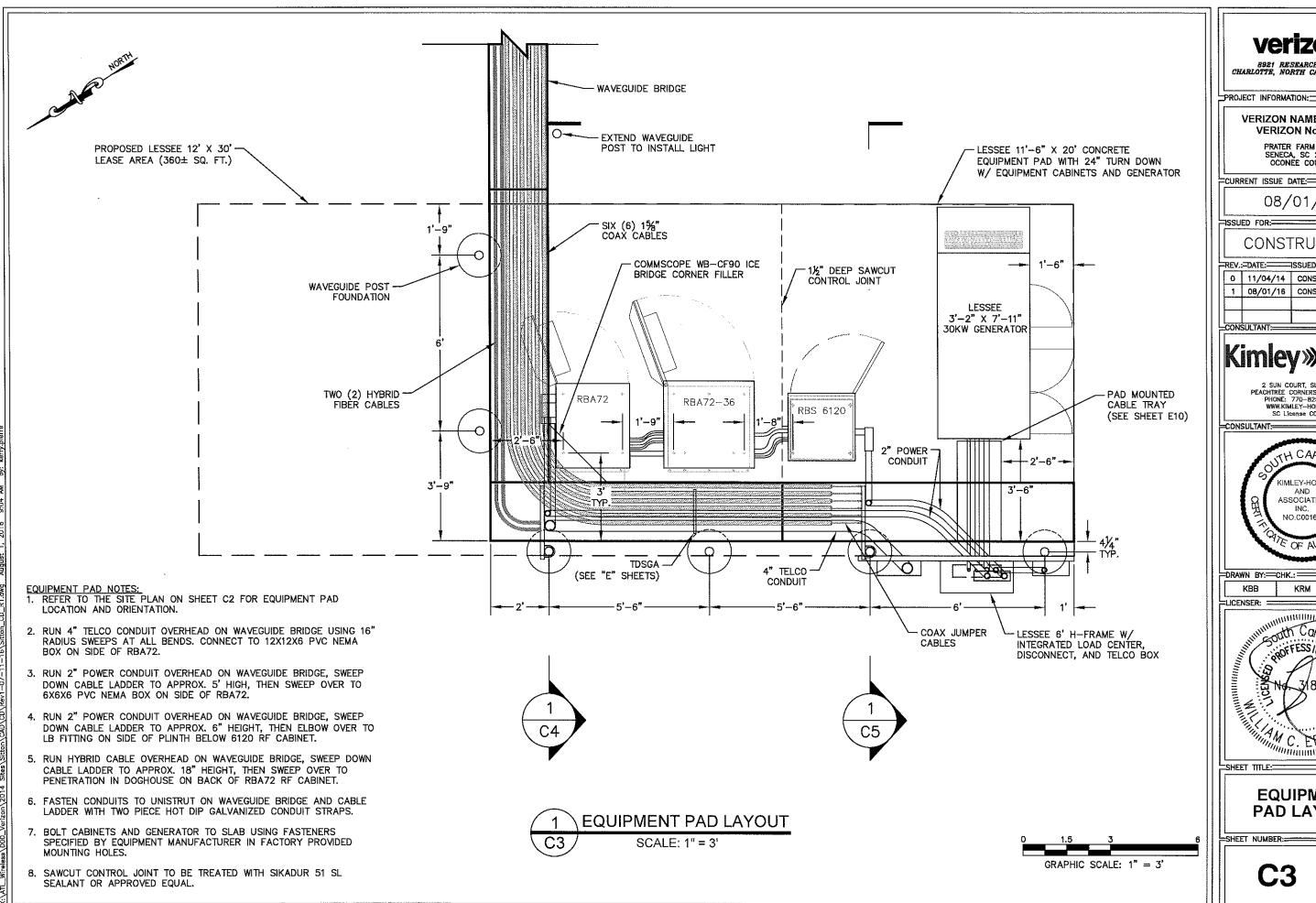
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### **Kimley Morn**



WCE





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8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

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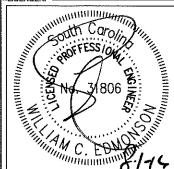
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### **Kimley** » Horn

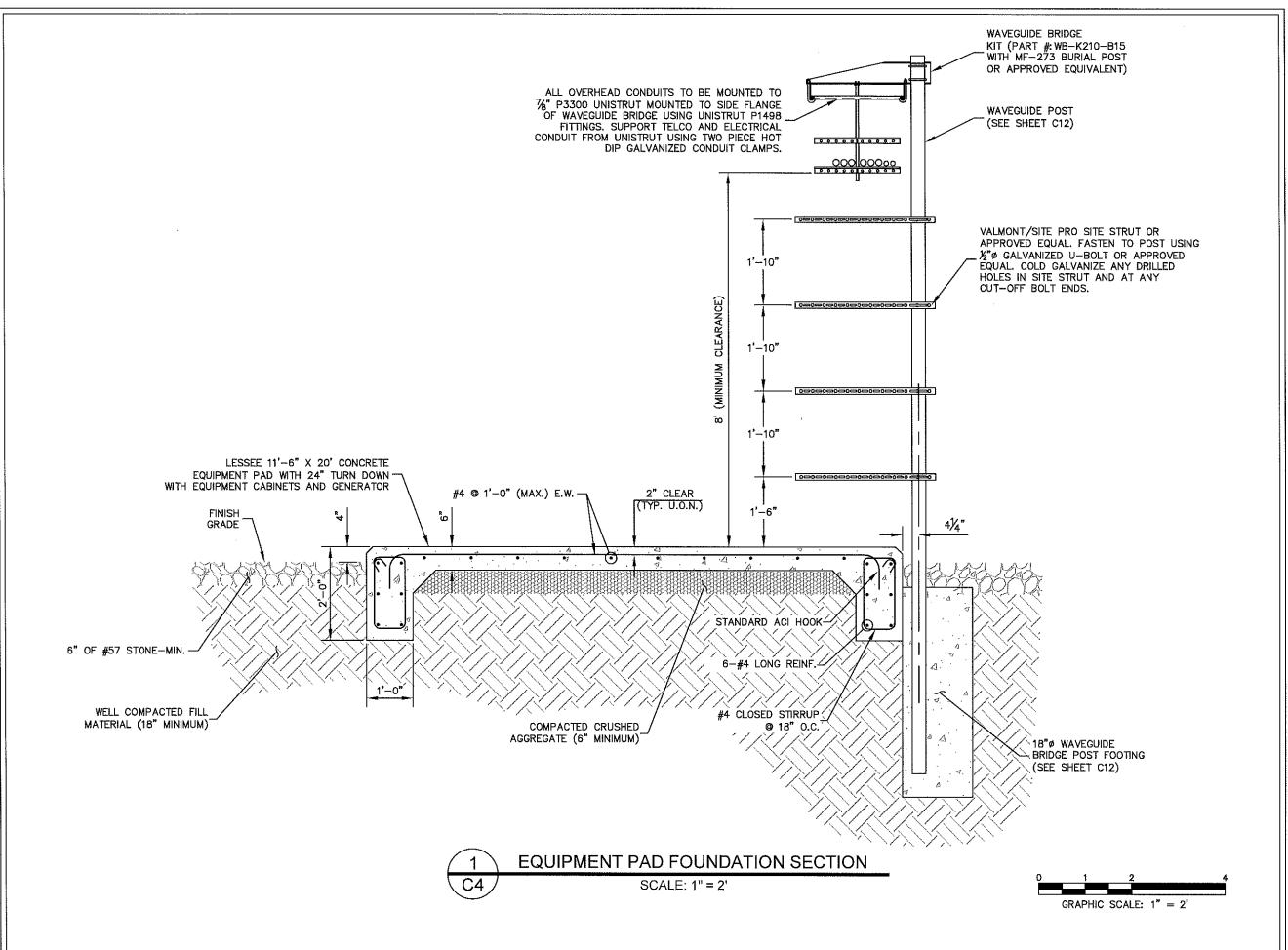
2 SUN COURT, SUITE 450
PEACHTREE CORNERS, GA 30092
PHONE: 770-825-0744
WWW.KIMLEY-HORN.COM
SC License C00166

KIMLEY-HOR AND ASSOCIATES, NO.C00166

=DRAWN BY:==CHK.:= KRM WCE



**EQUIPMENT** PAD LAYOUT





8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

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CONSULTANT

### Kimley»Horn

2 SUN COURT, SUITE 450 PEACHTREE CORNERS, GA 30092 PHONE: 770-825-0744 WWW.KIMLEY-HORN.COM SC License C00166

CONSULTANT:=



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EQUIPMENT
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SECTION DETAILS

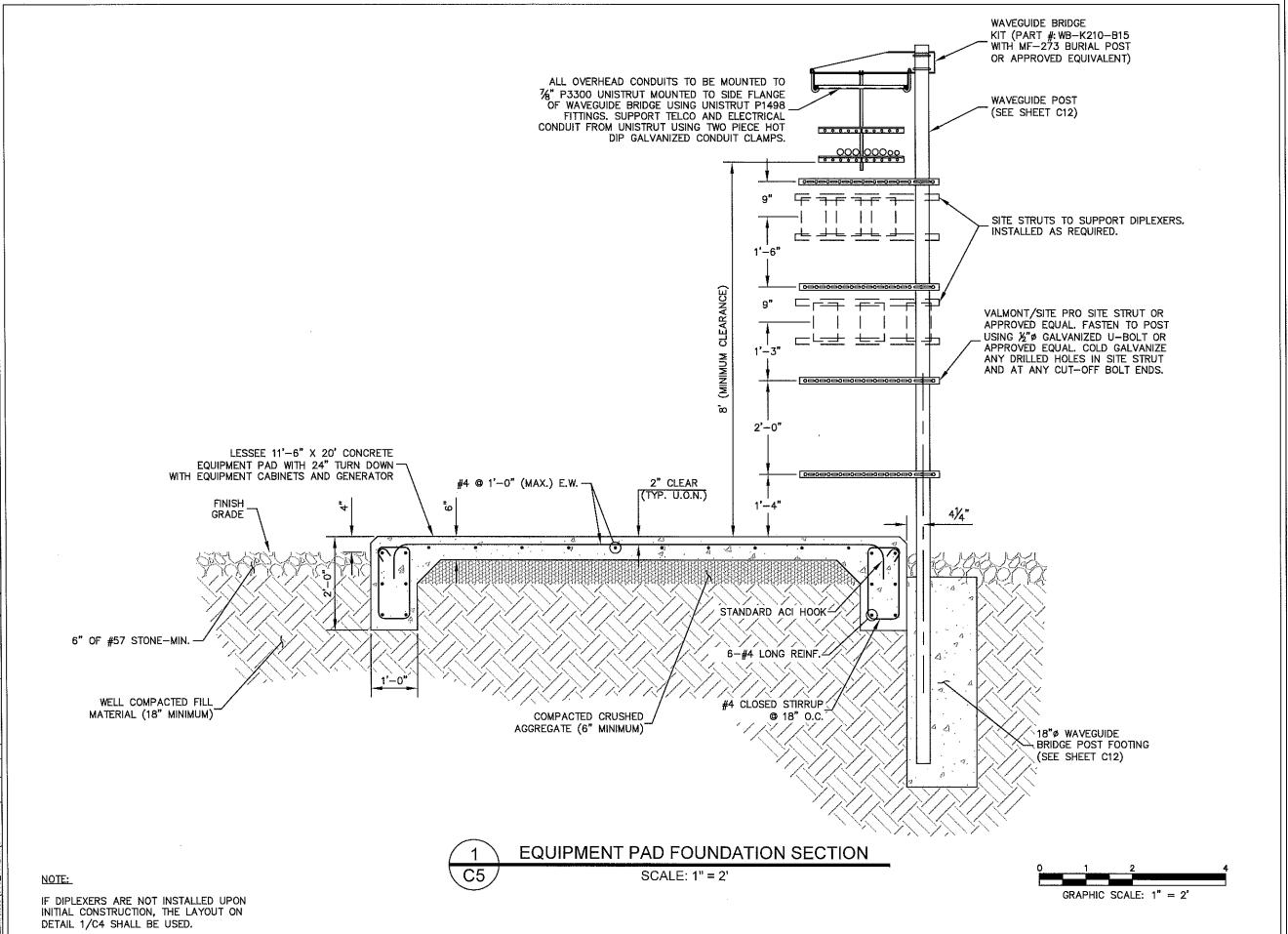
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8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28282

PROJECT INFORMATION:

**VERIZON NAME: SITTON VERIZON No.: TBD** 

PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

CURRENT ISSUE DATE:

SSUED FOR:

08/01/16

CONSTRUCTION

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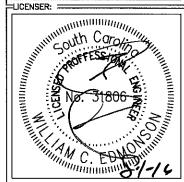
### Kimley»Horn

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PHONE: 770-825-0744
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SG License C00166

=CONSULTANT:==



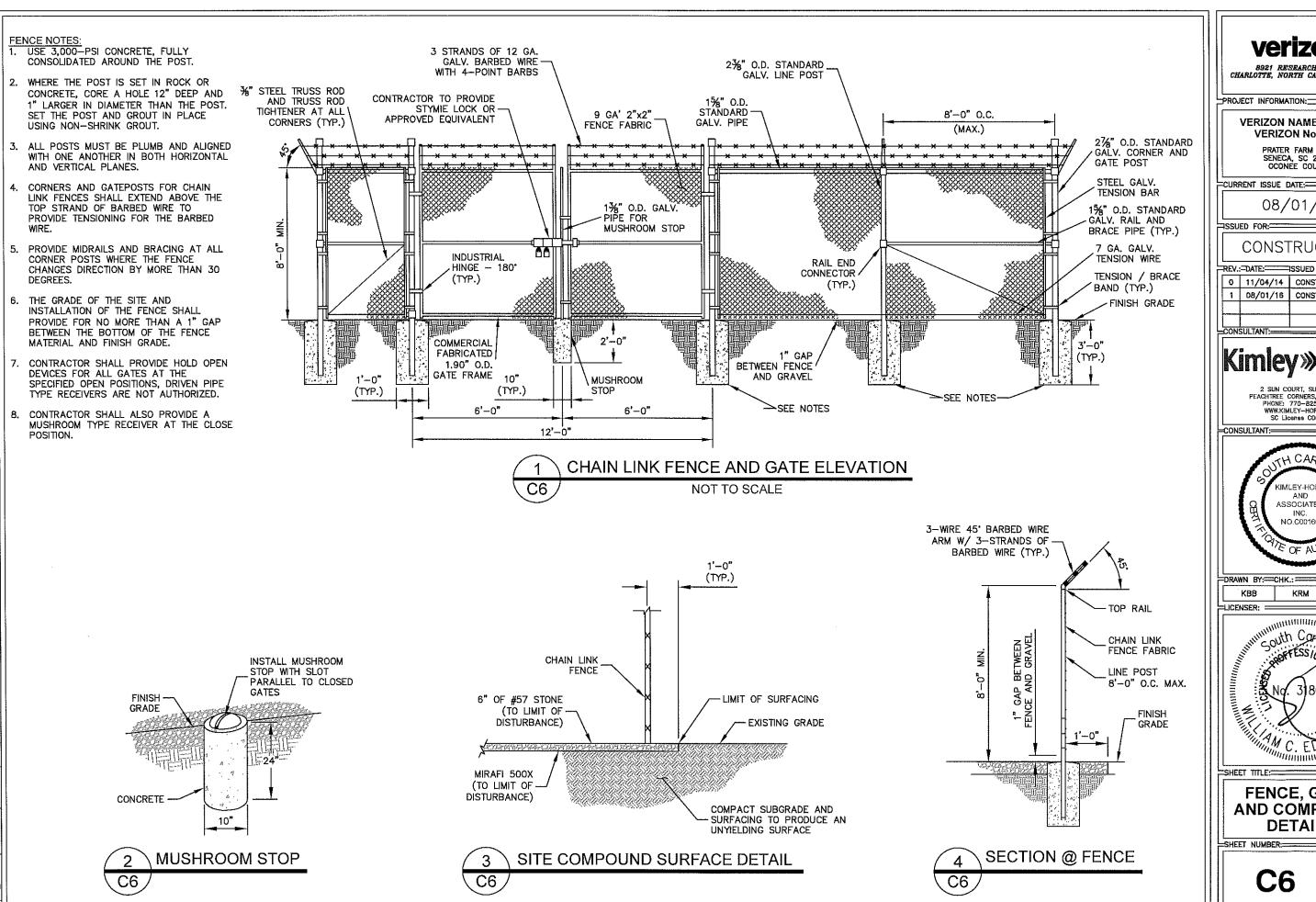
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SHEET TITLE:

**EQUIPMENT** PAD FOUDATION **SECTION DETAILS** 

SHEET NUMBER:====REVISION:==



verizon<sup>v</sup> 8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

**VERIZON NAME: SITTON VERIZON No.: TBD** 

SENECA, SC 28678 OCONEE COUNTY

=CURRENT ISSUE DATE:==

08/01/16

CONSTRUCTION

REV.:=DATE:=== 0 11/04/14 CONSTRUCTION WCE 1 08/01/16 CONSTRUCTION WCE

Kimley»Horn

2 SUN COURT, SUITE 450 PEACHTREE CORNERS, GA 30092 PHONE: 770-825-0744

CONSULTANT:= KIMLEY-HORI AND ASSOCIATES, NO.C00166

DRAWN BY: CHK.: APV.; KBB KRM WCE LICENSER: = South Carolly

FENCE, GATE, AND COMPOUND DETAILS

SHEET NUMBER: =REVISION:

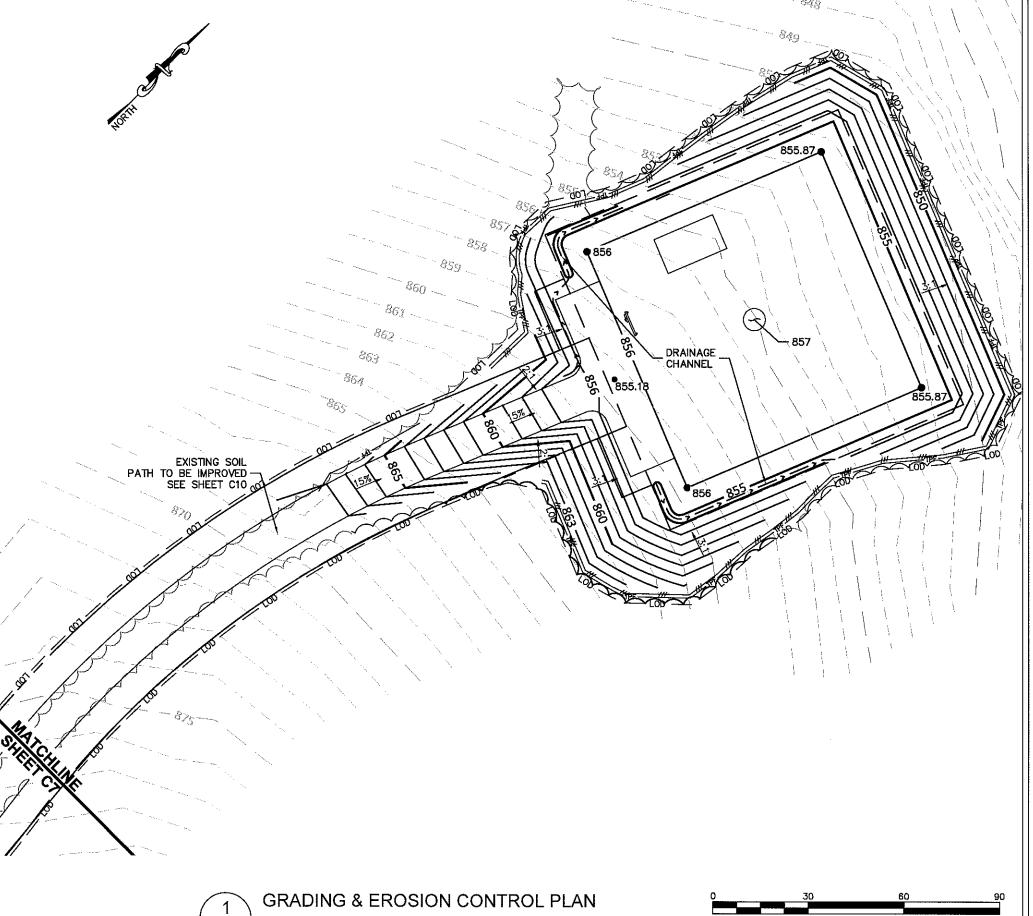
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NOTE: CURRENT DESIGN ANTICIPATES APPROXIMATELY 39,272± SQ. FT. (0.90 ACRES) OF CLEARING AND GRADING FOR THE PROPOSED PROJECT. IF ADDITIONAL CLEARING IS REQUIRED BEYOND WHAT IS SHOWN IN THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR PROJECT MANAGER, IF DURING THE BID WALK OR CONSTRUCTION IT IS DETERMINED THAT MORE THAN (1) ACRE OF LAND IS TO BE DISTURBED FOR CONSTRUCTION AN EROSION AND SEDIMENTATION CONTROL PLAN MUST BE FILED 30 DAYS PRIOR TO CONSTRUCTION.

- GRADING NOTES:
  1. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEERS SPECIFICATIONS. FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
  CONTRACTOR SHALL BLEND EARTHWORK
- SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- PORTIONS OF THE SITE NOT SPECIFICALLY MENTIONED WITHIN THE GEOTECHNICAL REPORT SHALL BE COMPACTED TO 95 PERCENT OF THE MATERIALS MAXIMUM DRY DENSITY WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- FILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS.
- UNDISTURBED AREAS WITHIN 30' INGRESS/EGRESS EASEMENT NOT NEEDED FOR UTILITY ROUTING TO BE LEFT UNDISTURBED.



### verizon

8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28282

PROJECT INFORMATION:

**VERIZON NAME: SITTON VERIZON No.: TBD** 

PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

CURRENT ISSUE DATE:

08/01/16

#### CONSTRUCTION

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CONSULTANT

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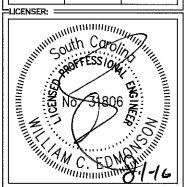
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CONSULTANT:=



DRAWN BY: CHK .: APV .: KRM KBB WCE



SHEET TITLE:

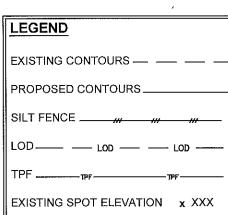
#### **GRADING & EROSION CONTROL** PLAN 1 OF 2

=SHEET NUMBER:=

GRAPHIC SCALE: 1" = 30'

018985125

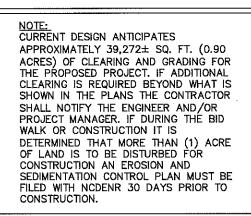
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PROPOSED SPOT ELEVATION ● XXX

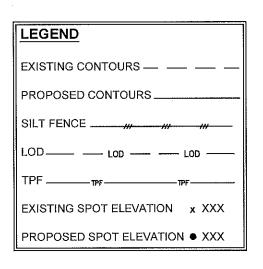


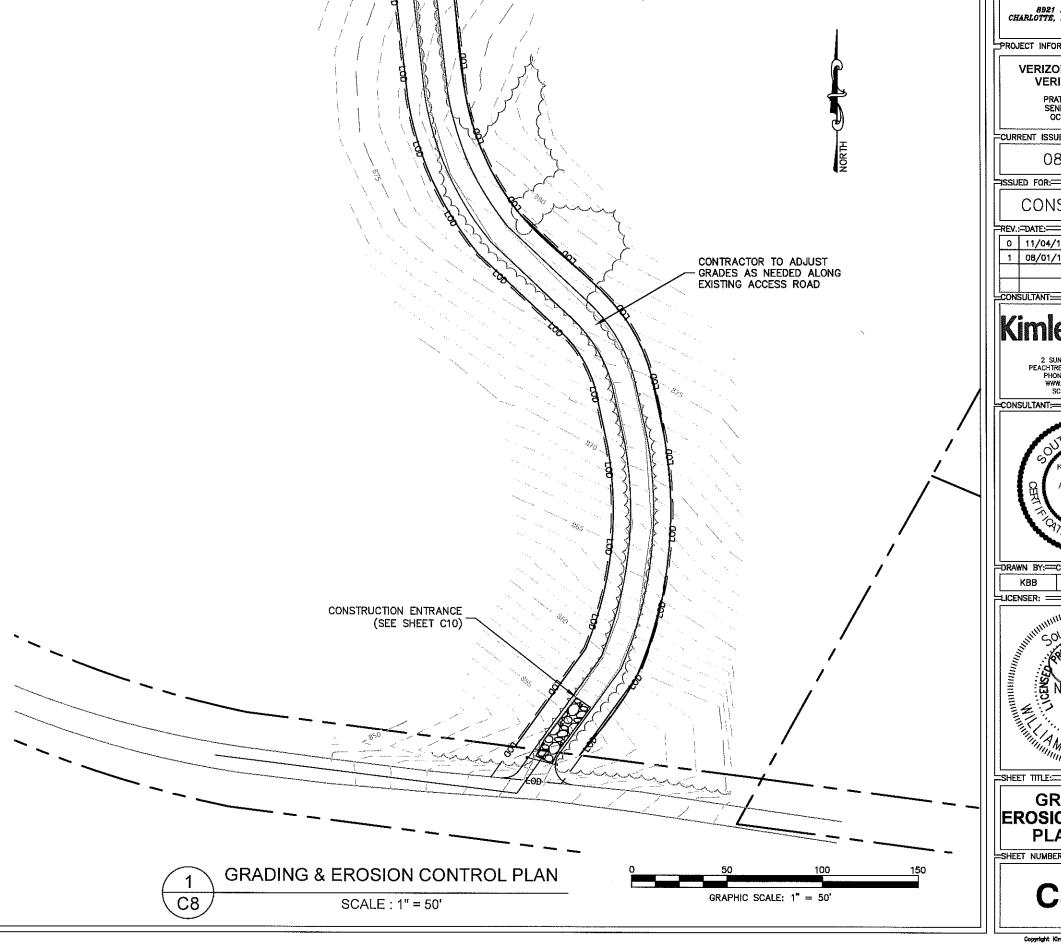
SCALE: 1" = 30'



#### **GRADING NOTES:**

- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEERS SPECIFICATIONS. FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
- 3. CONTRACTOR SHALL BLEND EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- PORTIONS OF THE SITE NOT SPECIFICALLY MENTIONED WITHIN THE GEOTECHNICAL REPORT SHALL BE COMPACTED TO 95 PERCENT OF THE MATERIALS MAXIMUM DRY DENSITY WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- FILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS.
- UNDISTURBED AREAS WITHIN 30' INGRESS/EGRESS EASEMENT NOT NEEDED FOR UTILITY ROUTING TO BE LEFT UNDISTURBED.





SHEET CO MATCHLIN

### verizon<sup>v</sup>

8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28282

PROJECT INFORMATION:

**VERIZON NAME: SITTON** VERIZON No.: TBD

PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

-CURRENT ISSUE DATE:----

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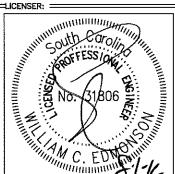
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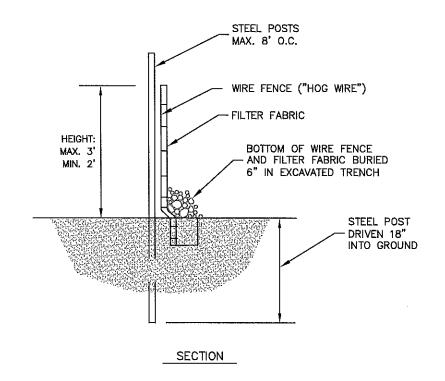


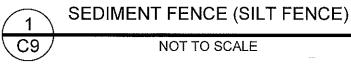
**GRADING & EROSION CONTROL** PLAN 2 OF 2

=SHEET NUMBER:====

#### **EROSION CONTROL NOTES:**

- EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE.
   ALL EXCAVATED SOILS NOT NEEDED
- ALL EXCAVATED SOILS NOT NEEDED ON SITE FOR BACKFILL OPERATIONS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE TAKEN OFF SITE AND LEGALLY DISPOSED
- 3. SOIL REMAINING ON SITE SHALL HAVE SILT FENCE TIGHTLY PLACED AROUND THE ENTIRE CIRCUMFERENCE OF THE PILE.
- 4. PROVIDE EROSION CONTROLS AS NECESSARY TO PREVENT EXISTING SOILS FROM DRAINING OFF SITE OR INTO EXISTING DRAINAGE STRUCTURES.
- 5. ERECTION OF EROSION CONTROLS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL EROSION CONTROL REGULATIONS.





### SEEDING SCHEDULE FOR WINTER / SPRING CONSTRUCTION ACTIVITIES

#### SEEDING MIXTURE

Species Rate (lb/acre)
Rye (grain) 120
Annual lespedeza (Kobe in

Piedmont and Coastal Plain, Korean in Mountains)

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

#### **SEEDING DATES**

Mountains—Above 2500 ft: Feb 15 — May 15
Below 2500 ft.: feb. 1 — May 1
Piedmont—Jan. 1 — May 1
Coastal Plain—Dec. 1 — Apr. 15

#### SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

#### MULCH

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

#### MAINTENANCE

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

### SEEDING SCHEDULE FOR SUMMER CONSTRUCTION ACTIVITIES

#### SEEDING MIXTURE

Species Rate (ib/acre)
Common Bermudagrass 40-80 (1-2 lb/1,000

sq. ft.)

#### SEEDING DATES

Coastal Plain—Apr. 1 — July Piedmont—Apr. 15 — June 30

#### SOIL AMENDMENTS

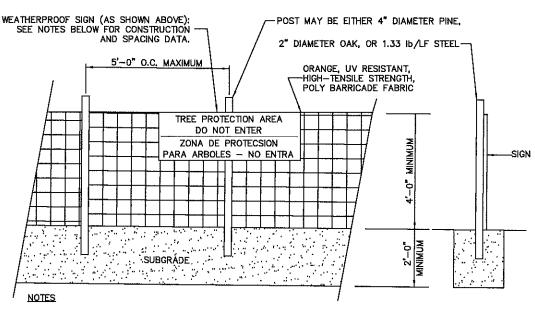
Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer.

#### MULCH

Use jute, excelsior matting, or other effective channel lining material to cover the bottom of channels and ditches. The lining should extend above the highest calculated depth of flow. On channel side slopes above this height, and in drainages not requiring temporary lining, apply 4,000 lb/acre grain straw and anchor straw by stapling netting over the top.

#### MAINTENANCE

A minimum of 3 weeks is required for establishment. Inspect and repair mulch frequently. Refertilize the following Apr. with 50 lb/acre nitrogen.



INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR SITE INSPECTION. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BASED ON ACTUAL FIELD CONDITIONS.

TREE PROTECTION FENCE

NOT TO SCALE

### verizon/

8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

PROJECT INFORMATION:

VERIZON NAME: SITTON VERIZON No.: TBD

> PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

CURRENT ISSUE DATE:

08/01/16

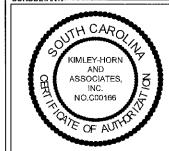
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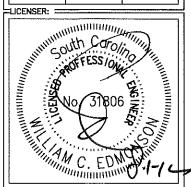
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CONSULTANT:=



DRAWN BY: CHK.: APV.: KBB KRM WCE



SHEET TITLE:

GRADING & EROSION CONTROL DETAILS

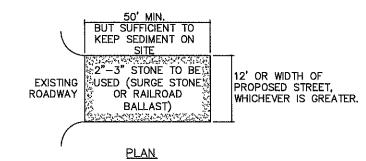
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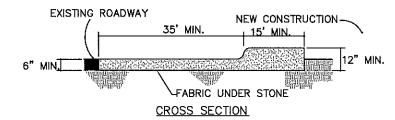
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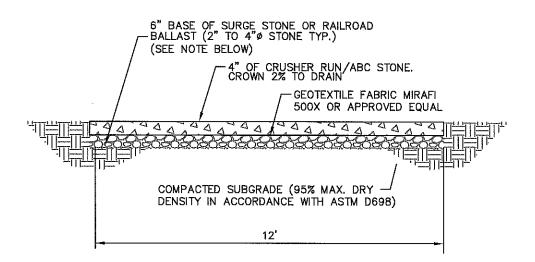
PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.

2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVEL-ING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.

3. IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.







NOTE:

IF DETERMINED NECESSARY DURING GRADING AND CONSTRUCTION OF THE ACCESS ROAD BY THE VERIZON WIRELESS PROJECT MANAGER, THE CONTRACTOR SHALL INSTALL 6" BASE OF SURGE STONE OR RAILROAD BALLAST (2" TO 4" STONE TYP.)





8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28282

PROJECT INFORMATION:

**VERIZON NAME: SITTON** VERIZON No.: TBD

PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

CURRENT ISSUE DATE:---

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-CONSULTANT:-



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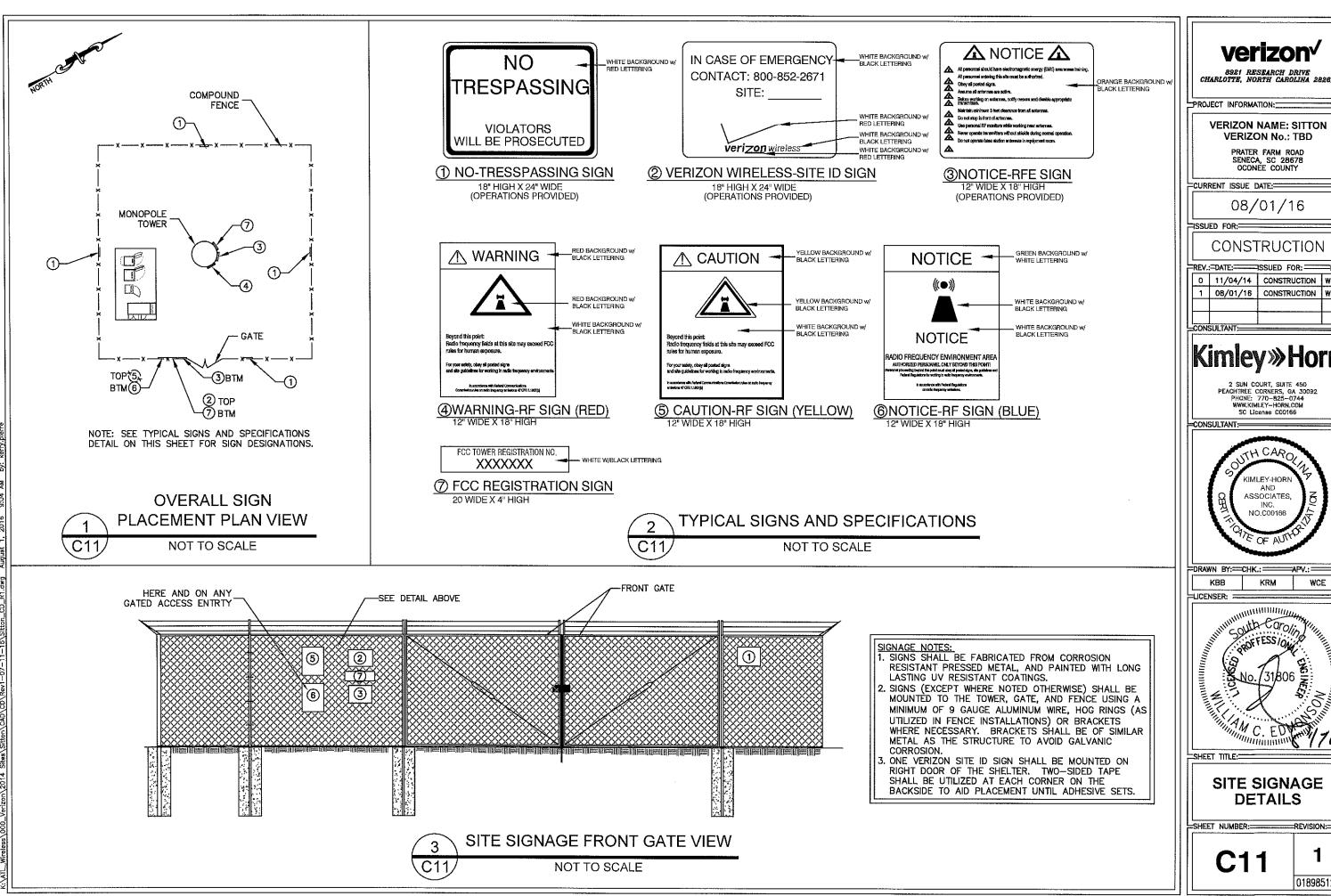
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**ACCESS ROAD DETAILS** 

SHEET NUMBER:=

018985125

===REVISION:=



verizon<sup>v</sup>

**VERIZON NAME: SITTON** 

VERIZON No.: TBD PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

CURRENT ISSUE DATE:

08/01/16

CONSTRUCTION REV.:=DATE:=====SSUED FOR;=

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## **Kimley** »Horn

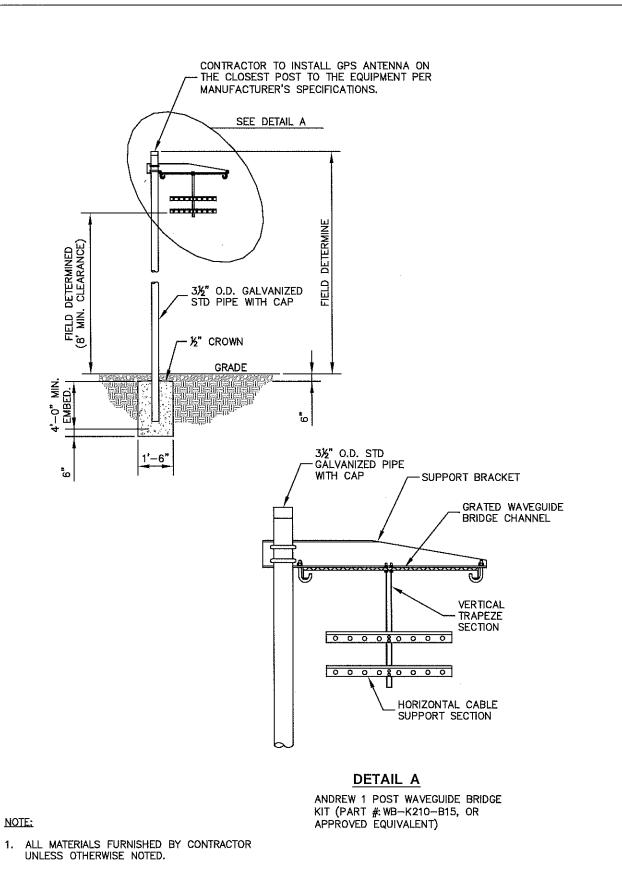
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TORAWN BY: CHK.: APV.: KRM

=LICENSER: ===

SITE SIGNAGE **DETAILS** 



WAVEGUIDE BRIDGE DETAIL

NOT TO SCALE

CONTRACTOR TO INSTALL GPS ANTENNA ON -THE CLOSEST POST TO THE EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS. SEE DETAIL B 3½" O.D. GALVANIZED STD PIPE WITH CAP - ½" CROWN 1'-6" SUPPORT BRACKET GRATED WAVEGUIDE BRIDGE CHANNEL 3½" O.D. STD GALVANIZED PIPE TRAPEZE WITH CAP SECTION 000080000 000080000 HORIZONTAL CABLE SUPPORT SECTION

NOTE:

 ALL MATERIALS FURNISHED BY CONTRACTOR UNLESS OTHERWISE NOTED. DETAIL B

ANDREW 2 POST WAVEGUIDE BRIDGE
KIT (PART #: WB-K410-B15, OR
APPROVED EQUIVALENT)

WAVEGUIDE BRIDGE DETAIL (ALTERNATIVE DESIGN WITH 2 PIPE COLUMNS)

(C12)

NOT TO SCALE

PROJECT INFORMATION:

VERIZON NAME: SITTON

VERIZON No.: TBD

PRATER FARM ROAD
SENECA, SC 28678
OCONEE COUNTY

verizon<sup>v</sup>

CURRENT ISSUE DATE:=

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ISSUED FOR:

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# Kimley»Horn

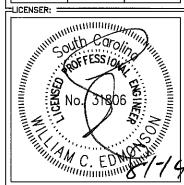
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SC License C00166

CONSULTANT:

CONSU

DRAWN BY:-CHK.: APV.:

KBB KRM WCE



SHEET TILE

WAVEGUIDE BRIDGE DETAILS

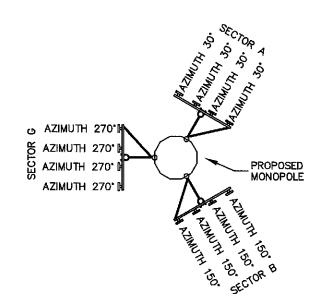
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**ANTENNA ORIENTATION PLAN** 

(NOT TO SCALE, FOR ILLUSTRATIVE PURPOSES ONLY, SEE STRUCTURAL ANALYSIS BY OTHERS TO CONFIRM ANTENNA MOUNT TYPE)

ANITENINA	AZIMUTH	MECHANICAL	LIOTHETE	ANTENNA*		co	MPOSI	TION CABL	ES.
	IN DEGREES	DOWN TILT	LICENSED FREQUENCY	(QTY) MAKE/MODEL	REMOTE RADIO UNIT	LENGTH		COAX	TOTAL
	DEGREES					LENGIA	QTY	SIZE	HYBRID
	30*	0*	850	_	-	404'±	-	_	
SECTOR	30°	0.	1900	(0) ANDREW/SBNHH-1D65C	RRUS32	404'±	_	-	
A	30.	0,	2100	(0) ANDREW/SBNHH-1D65C	RRUS32	404'±	_	_	
	30°	0,	700	(2) ANDREW/SBNHH-1D65C	RRUSB13/A2	404'±	2	1-5/8"ø	
	1501	0,	850	-		404'±	_		1
SECTOR	150*	0.	1900	(0) ANDREW/SBNHH-1D65C	RRUS32	404'±		_	1 .
B	1501	0.	2100	(0) ANDREW/SBNHH-1D65C	RRUS32	404'±		_	2
	150	0.	700	(2) ANDREW/SBNHH-1D65C	RRUSB13/A2	404'±	2	1-5/8"ø	1
	270*	0,	850	-	-	404'±	-	_	
SECTOR	270*	0.	1900	(0) ANDREW/SBNHH-1D65C	RRUS32	404'±	_	_	
G	270*	0.	2100	(0) ANDREW/SBNHH-1D65C	RRUS32	404'±	-	<del> </del>	
	270°	0.	700	(2) ANDREW/SBNHH-1D65C	RRUSB13/A2	404'±	2	1-5/8"ø	1

\* CONTRACTOR TO INSTALL ANY RAYCAP BOXES AS NECESSARY. FOR TOWER DESIGN, ANALYSIS, OR LEASING PURPOSES, SIX (6) FUTURE 1%" COAX CABLES SHALL BE CONSIDERED. VERIFY WITH VERIZON WIRELESS PROJECT MANAGER PRIOR TO CONSTRUCTION.

1. ALL INFORMATION ON THIS PAGE IS PROVIDED BY VERIZON WIRELESS AND/OR OTHERS AND IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR SHALL CONTACT THE VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION FOR ALL DETAILED ANTENNA, AND COAX CABLE INFORMATION.

2. REFER TO STRUCTURAL ANALYSIS BY TOWER OWNER FOR ANALYSIS OF PROPOSED TOWER.

3. IT IS UNDERSTOOD THAT KIMLEY-HORN MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, FINDINGS, DESIGNS. RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE RELATING TO THE STRUCTURAL ADEQUACY OF THE PROPOSED TOWER OR ATTACHMENT OF ANTENNAS OR OTHER APPURTENANCES.

LINK SECURITY FENCE

PROPOSED CHAIN

MONOPOLE TOWER ELEVATION - NORTHEAST VIEW (FACING SOUTHWEST)

C13

1. ALL PROPOSED ATTACHMENTS TO TOWER BASED ON TOWER DESIGN DRAWINGS BY OTHERS (SEE GENERAL NOTE 1.07, SHEET N1).

- 2. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
- 3. COAX CABLE LENGTHS ARE APPROXIMATE. CONTRACTOR TO VERIFY CORRECT LENGTH IN FIELD AT TIME OF CONSTRUCTION.
- 4. PROPOSED TOWER WILL BE GALVANIZED STEEL-GRAY IN COLOR.
- 5. PROPOSED ANTENNAS WILL BE LIGHT GRAY IN COLOR.

TOP OF LIGHTNING ROD EL,174' A.G.L.

PROPOSED LESSEE ANTENNAS

© EL.165' A.G.L.

PROPOSED 165' MONOPOLE TOWER

PROJECT INFORMATION: **VERIZON NAME: SITTON** 

> **VERIZON No.: TBD** PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

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8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

CURRENT ISSUE DATE:

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CONSULTANT:=



DRAWN BY:--CHK.:---KBB KRM WCE

LICENSER: =

LESSEE 11'-6" X 20' CONCRETE EQUIPMENT PAD WITH 24" TURNDOWN

W/EQUIPMENT CABINETS AND

**GÉNERATOR** 

**FOR** ILLUSTRATIVE **PURPOSES ONLY-**NO SIGNATURE **REQUIRED** 

SHEET TITLE:

**ANTENNA AND** TOWER ELEVATION **DETAILS** 

SHEET NUMBER:

018985125

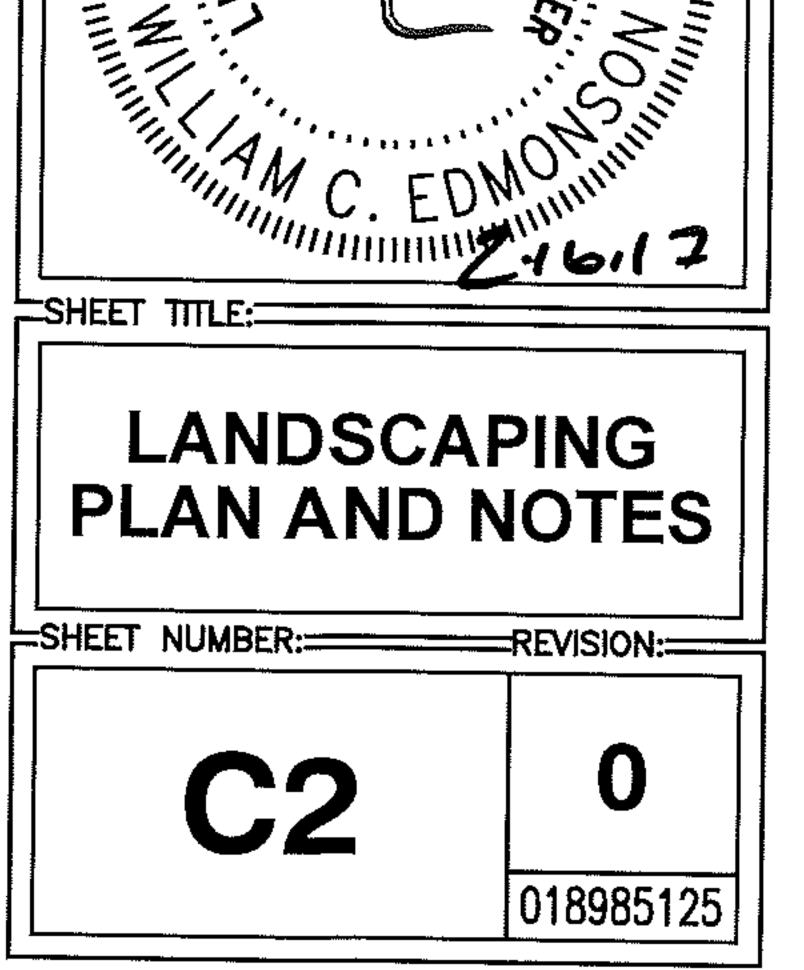
NOTES:

TOP OF TOWER

EL.165' A.G.L.

NOT TO SCALE

ECIF	FICATION	
ОТ	CALIPER/ SIZE	SPACING
&B	5/8"	5' O.C.
&B	1 3/4"	SEE PLAN



#### **BASIC SERVICE ROUTING NOTES AND SPECIFICATIONS:**

- ALL ELECTRICAL WORK SHALL COMPLY WITH NEC. STATE, AND LOCAL CODES. ALL ELECTRICAL DEVICES, MATERIALS, AND SERVICE EQUIPMENT SHALL BE LABEL-LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
- CONTRACTOR SHALL OBTAIN OWNER/TENANT SPECIFICATIONS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER/TENANT SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC UTILITY FOR THE EXACT TRANSFORMER LOCATION, METERING REQUIREMENTS, AND SERVICE ROUTING. CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR THE EXACT TELEPHONE REQUIREMENTS AND SERVICE ROUTING
- PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10,000 AMPS.
- CONTRACTOR TO PROVIDE 200 LB TEST POLYETHYLENE PULL CORDS SECURELY FASTENED AT EACH END OF POWER AND TELCO CONDUIT INCLUDING INNERDUCTS PROVIDE CAPS ON ENDS OF UNUSED CONDUIT.
- CONTRACTOR TO PROVIDE A REBAR MARKER WITH AT LEAST 2 FEET EXPOSED ABOVE GRADE AND PAINTED BRIGHT ORANGE TO INDICATE LOCATION OF CONDUIT CAPPED BELOW GRADE.
- PRIOR TO TRENCHING CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR AT CONTRACTOR'S EXPENSE ANY DAMAGE TO EXISTING UTILITIES.
- CONTRACTOR TO VERIFY EXACT ROUTING OF POWER AND TELCO CONDUIT WITH LOCAL UTILITIES AND OWNER/TENANT, ENSURE ALL CONDUIT STUB-UPS ACCOMMODATE EQUIPMENT REQUIREMENTS.
- UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE, USE SCHEDULE 80 PVC CONDUIT UNDER ROADS AND IN AREAS ABOVE GRADE THAT EXPOSED AND SUBJECT TO DAMAGE. MANUFACTURED BENDS SHALL HAVE A MINIMUM RADIUS OF 24 INCHES.
- 10. CONDUIT RUNS SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE EQUIPMENT TO ALLOW WATER TO FLOW AWAY FROM THE EQUIPMENT AND SHELTER, EXCAVATE TRENCHES ALONG STRAIGHT LINES PRIOR TO INSTALLING CONDUIT TO ACCOMMODATE ADJUSTING THE ELEVATION, AS NEEDED.
- 11. CONDUIT ENTERING EQUIPMENT SHALL BE SEALED WITH A SEALANT THAT IS IDENTIFIED FOR USE WITH THE CABLE/CONDUCTOR INSULATION, SHIELDING, ETC.
- 12. THE OWNER SHALL FURNISH AND THE CONTRACTOR SHALL INSTALL ADDITIONAL SIGNAGE TO BE LOCATED AT THE COMPOUND FENCE. CONTRACTOR SHALL COORDINATE WITH OWNER/TENANT CONSTRUCTION MANAGER FOR PLACEMENT OF SIGNAGE
- 13. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE LANDSCAPING AREA
- CONTRACTOR ENSURE A MINIMUM 3' WORKING CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT PER NEC.
- 15. THE CONTRACTOR SHALL ADD ENGRAVED PHENOLIC LABEL TO THE FRONT OF PANEL 'PP1' THAT READS, MAXIMUM DRAW OF ALL RECTIFIERS PLUS ALL ANCILLARY EQUIPMENT SHALL NOT EXCEED 30KW. IF MORE THAN 30KW OF POWER IS REQUIRED, THE EXISTING 30KW GENERATOR WILL NEED TO BE UPGRADED.
- 16. CONTRACTOR TO PROVIDE PULL BOXES AS NEEDED TO ENSURE NO GREATER THAN 360 DEGREES OF BENDS BETWEEN PULL POINTS IN CONDUIT RUNS.
- 17. CONTRACTOR COORDINATE WITH LOCAL UTILITY COMPANY FOR SERVICE TO THIS POINT.
- 18. COORDINATE EXACT ROUTING, INSIDE OR OUTSIDE FENCE, WITH OWNER/TENANT CONSTRUCTION MANAGER. ROUTE CONDUIT WITHIN 3' OF FENCE.
- 19. CONDUITS SHOULD BE ROUTED OVERHEAD ON ICE BRIDGE EXCEPT GENERATOR CONDUITS RUN ON CABLE TRAY MOUNTED TO CONCRETE PAD.

#### **GROUNDING NOTES AND SPECIFICATIONS:**

- 1. THE GROUND RING SHALL CONSIST OF #2 AWG BARE SOLID TINNED COPPER (STC) CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 30" BELOW FINISHED GRADE (OR BELOW FROST LINE). LOCATE 24" MINIMUM AND 36" MAXIMUM FROM EQUIPMENT PAD AND FROM TOWER FOUNDATION, ALL CONNECTIONS SHALL BE MADE USING A PARALLEL TYPE EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.
- 2. INSTALL GROUND RODS AS SHOWN AND AS REQUIRED. GROUND RODS TO BE COPPER CLAD STEEL, 5/8" DIAMETER AND 10FT IN LENGTH, SPACING BETWEEN GROUND RODS SHALL BE 10FT MINIMUM AND 15FT MAXIMUM. TOP OF GROUND ROD TO BE 30" MINIMUM BELOW GRADE (OR BELOW FROST LINE). BOND TOP OF GROUND ROD TO GROUND WIRE WITH EXOTHERMIC WELD, DO NOT EXOTHERMICALLY WELD ANYTHING TO GROUND ROD EXCEPT GROUND WIRE WHICH PASSES OVER TOP OF GROUND ROD (CLAMPED CONNECTIONS TO GROUND ROD PER TOWER MANUFACTURERS DETAILS ARE ACCEPTABLE).
- 3. EQUIPMENT GROUND RING SHALL HAVE A MINIMUM OF 4 GROUND RODS, INSTALLED AT THE CORNERS OF THE GROUND RING PLUS ADDITIONAL RODS AS 17. BOND EACH COMMSCOPE RBA72-36 BATTERY CABINET TO GROUND RING REQUIRED TO COMPLY WITH THE SPACING REQUIREMENTS. TOWER GROUND RING SHALL HAVE A MINIMUM OF 3 GROUND RODS, EXCEPT USE 4 RODS AT A MONOPOLE TOWER.
- 4. EQUIPMENT GROUND RING AND TOWER GROUND RING SHALL BE BONDED TOGETHER WITH TWO #2 STC GROUND LEADS, TYPICALLY ONE ON EACH SIDE
- 5. BOND TOWER TO TOWER GROUND RING AT THREE LOCATIONS WITH #2 STC GROUND LEAD, SELF SUPPORT TOWERS SHALL HAVE EACH LEG BONDED TO GROUND RING, MONOPOLES AND GUYED TOWERS SHALL HAVE GROUND LEADS. AREA, THEN CONTINUE TO GROUND RING. EQUALLY SPACED AROUND TOWER. EXOTHERMICALLY WELD GROUND LEADS TO TOP OF BASE PLATES, OR ATTACH TO TOWER USING TOWER MANUFACTURER PROVIDED DETAIL.
- 6. PROVIDE #2 STC RADIALS FROM THE TOWER GROUND RING TO EACH FENCE CORNER POST, RADIALS SHALL HAVE GROUND RODS AS PER THE REQUIRED SPACING, THE GROUND ROD AT THE END OF EACH RADIAL SHALL BE 24" MAXIMUM FROM FENCE CORNER POST.
- 7. MINIMUM BEND RADIUS FOR #2 AWG GROUND WIRE IS 12", EXCEPT USE 24" FOR TOWER GROUND RINGS AND EQUIPMENT PAD GROUND RINGS.
- 8. GROUND ALL EXTERIOR EXPOSED METAL OBJECTS. USE TWO HOLE LUGS FOR CONNECTION TO FLAT METAL SURFACES, USE ONLY STAINLESS STEEL HARDWARE ON ALL MECHANICAL CONNECTIONS. CLEAN ALL SURFACES (AND STRIP PAINTED SURFACES) TO BARE BRIGHT METAL PRIOR TO MAKING GROUND POST CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO ALL CONNECTIONS, APPLY ZINC RICH PAINT (COLD GALV.) TO ALL EXOTHERMIC WELDS, AND TO ANY METAL 23. ANY FENCE POST WITHIN 6FT OF A GROUNDED METAL OBJECT SHALL BE EXPOSED BY CLEANING, STRIPPING, GRINDING, CUTTING OR DRILLING.
- PVC CONDUIT, CONDUIT SHALL BEGIN WITHIN 3/4" OF ABOVE GROUND CONNECTION POINT, SHALL EXTEND 24" BELOW GRADE MINIMUM, AND SHALL BE FILLED WITH SEALANT AT ABOVE GROUND CONNECTION POINT, SECURE CONDUIT EVERY 24" ON VERTICAL RUNS AND EVERY 36" ELSEWHERE WITH NON-METALLIC TIES.
- 10. WHERE POSSIBLE, MOUNT TDSGA-PA14 TOWER BOTTOM GROUND BAR ON DEDICATED POST BELOW COAX CABLES COMING OFF TOWER. WHERE INSTALLATION OF POST WOULD PUT TOWER BOTTOM GROUND BAR TOO FAR FROM COAX GROUND KITS, CLAMP TDSGA-BC14 TOWER BOTTOM GROUND BAR DIRECTLY TO TOWER STEEL (USUALLY OCCURS ON MONOPOLE TOWERS) AND BOND TO TOWER GROUND RING WITH TWO #2 STC LEADS LUGGED TO GROUND BAR AND EXOTHERMICALLY WELDED TO GROUND RING.
- 11, AT EQUIPMENT PAD, SUSPEND TDSGA-WB17 EXTERIOR GROUND BAR FROM ICE BRIDGE AND ISOLATE FROM ICE BRIDGE. BOND GROUND BAR TO EQUIPMENT GROUND RING WITH TWO #2 STC LEADS LUGGED TO GROUND BAR AND EXOTHERMICALLY WELDED TO GROUND RING. RUN LEADS DOWN NEAREST ICE BRIDGE POST AND SECURE TO POST WITH NON-METALLIC TIES EVERY 24 INCHES
- 12. ALL ICE BRIDGE SECTIONS ARE TO BE JUMPERED TOGETHER WITH #2 WIRE. EITHER BARE TINNED COPPER OR GREEN INSULATED STRANDED. ICE BRIDGE SHALL BE GROUNDED AT EACH END WITH #2 STC WIRE LUGGED TO ICE BRIDGE AND EXOTHERMICALLY WELDED TO UPPER PORTION OF NEAREST ICE BRIDGE POST
- 13. BOND EACH ICE BRIDGE POST TO GROUND RING WITH #2 STC LEAD. EXOTHERMICALLY WELD #2 TO ICE BRIDGE POST BELOW TOP OF GRAVEL, EACH POST TO HAVE SEPARATE GROUND LEAD - DO NOT DAISY CHAIN POSTS TOGETHER

14. BOND EACH H-FRAME POST TO NEAREST PORTION OF GROUND SYSTEM WITH #2 STC LEAD. EXOTHERMICALLY WELD #2 TO H-FRAME POST BELOW TOP OF GRAVEL

15. BOND SURFACE MOUNTED CABLE TRAY TO GROUND RING WITH #2 STC LEAD LUGGED TO SIDE OF GRIP STRUT CABLE TRAY COVER AND EXOTHERMICALLY WELDED TO GROUND RING

16. BOND EACH COMMSCOPE RBA72 CABINET AND EACH ERICSSON 6120 CABINET TO GROUND RING WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR LUGGED TO CABINET GROUND BAR AND EXOTHERMICALLY WELDED TO GROUND RING, RUN GROUND LEAD IN FLEX CONDUIT ACROSS CONCRETE PAD BELOW CABLE LADDER, THEN DOWN INTO GRAVEL AREA. CONNECT FLEX CONDUIT TO CABINET AT FACTORY KNOCKOUT (RBA72) OR PLINTH COVER PLATE (6120) WITH POSITIVE MECHANICAL FLEXIBLE CONDUIT

WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR LUGGED TO CABINET BODY AND EXOTHERMICALLY WELDED TO GROUND RING, RUN GROUND LEAD IN FLEX CONDUIT ALONG BACK OF RBA72 CABINET, ACROSS CONCRETE PAD BELOW CABLE LADDER. THEN DOWN INTO GRAVEL AREA, CONNECT TWO HOLE LUG TO BACK OF CABINET AT FACTORY PROVIDED GROUNDING STUDS.

18. BOND GENERATOR TO GROUND RING WITH #2 STC AT TWO DIAGONALLY OPPOSITE LOCATIONS BY DRILLING AND BOLTING TWO HOLE LUG TO FINS ON GENERATOR BASE STRUCTURE. GROUND LEADS SHOULD RUN ALONG BASE OF GENERATOR AND TAKE SHORTEST PATH ACROSS CONCRETE PAD TO GRAVEL

19. BOND GPS ANTENNA and GPS ANTENNA MOUNT TO TSDGA GROUND BAR ON ICE BRIDGE WITH #2 GREEN INSULATED STRANDED GROUND WIRE.

20. PROVIDE TWO GROUND RODS OUTSIDE GATES OF COMPOUND, DISTANCE BETWEEN GROUND RODS SHALL MATCH WIDTH OF GATE OPENING, AND DISTANCE FROM FENCE SHALL MATCH LENGTH OF LONGEST INDIVIDUAL GATE LEAF. BOND GATE POSTS TOGETHER WITH #2 STC LEAD WHICH RUNS PAST AND CONNECTS TO GROUND RODS OUTSIDE GATES.

21. BOND EACH GATE POST WITH #2 STC TO NEAREST PORTION OF GROUNDING SYSTEM INSIDE COMPOUND.

22. BOND EACH GATE TO GATE POST WITH FLEXIBLE INSULATED OR BRAIDED #4/0 COPPER STRAP. EXOTHERMICALLY WELD STRAP TO BOTH GATE AND GATE

BONDED TO THE NEAREST GROUND RING, ANY FENCE WITHIN 6FT OF A GROUND RING SHALL HAVE THE LINE POSTS BONDED TO THE GROUND RING AT 20FT 9. ALL GROUNDING CONDUCTORS ABOVE GRADE SHALL BE RUN IN 3/4" FLEXIBLE MAXIMUM INTERVALS AS MEASURED ALONG THE LENGTH OF THE FENCE.

> 24. NOTIFY VZW CM TO INSPECT GROUND RING BEFORE BACKFILLING CONTRACTOR SHALL HIRE A 3RD PARTY TO PERFORM AN IEEE81 FALL OF POTENTIAL METHOD GROUND TEST, MAXIMUM ALLOWABLE RESISTANCE TO GROUND IS 5 OHMS. PROVIDE ADDITIONAL GROUND SYSTEM COMPONENTS AS REQUIRED TO ACHIEVE THIS VALUE.

> 25. REFER TO TOWER GROUNDING DIAGRAM AND NOTES FOR GROUND SYSTEM REQUIREMENTS ON THE TOWER.

26. GROUNDING OF ALL ELECTRICAL EQUIPMENT SHALL BE AS PER NEC. MUNICIPAL AND UTILITY COMPANY REQUIREMENTS.

> TH CAROLANA Consulting Group, P.A. CO2379

8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

ROJECT INFORMATION:

**VERIZON NAME: SITTON** VERIZON No.: TBD

> SENECA, SC 28678 OCONEE COUNTY

URRENT ISSUE DATE:

ISSUED FOR:

7/29/16

CONSTRUCTION

REV.:= DATE:===== ISSUED FOR: ====== I 11/6/14 CONSTRUCTION 7/29/16 CONSTRUCTION

# **Kimley** »Horn

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ACG PROJECT NO.: 2014 477

DRAWN BY: == CHK.: == = APV · CAR NAC CCH

ICENSER: No.31981 Will William Hills

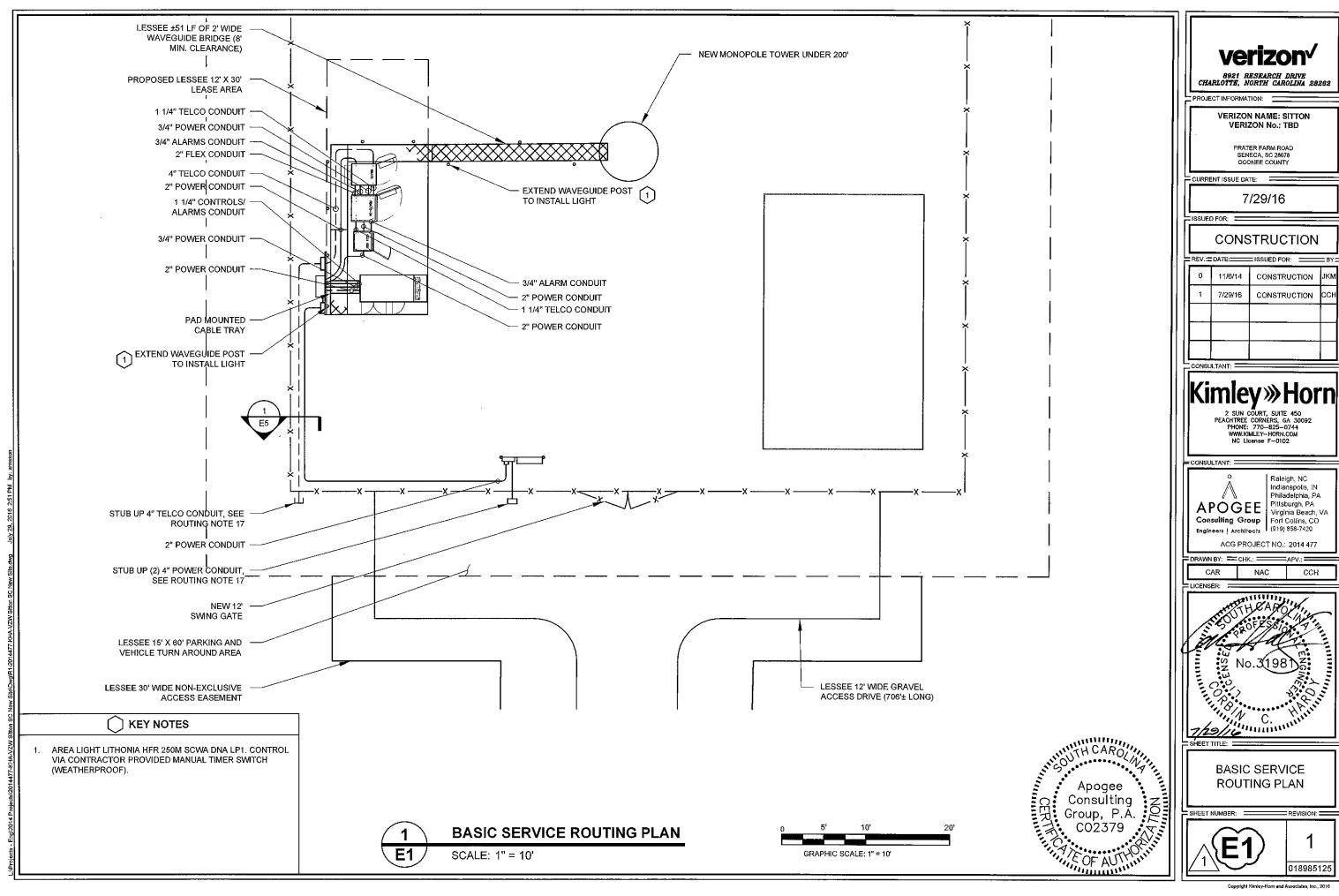
> NOTES AND **SPECIFICATIONS**

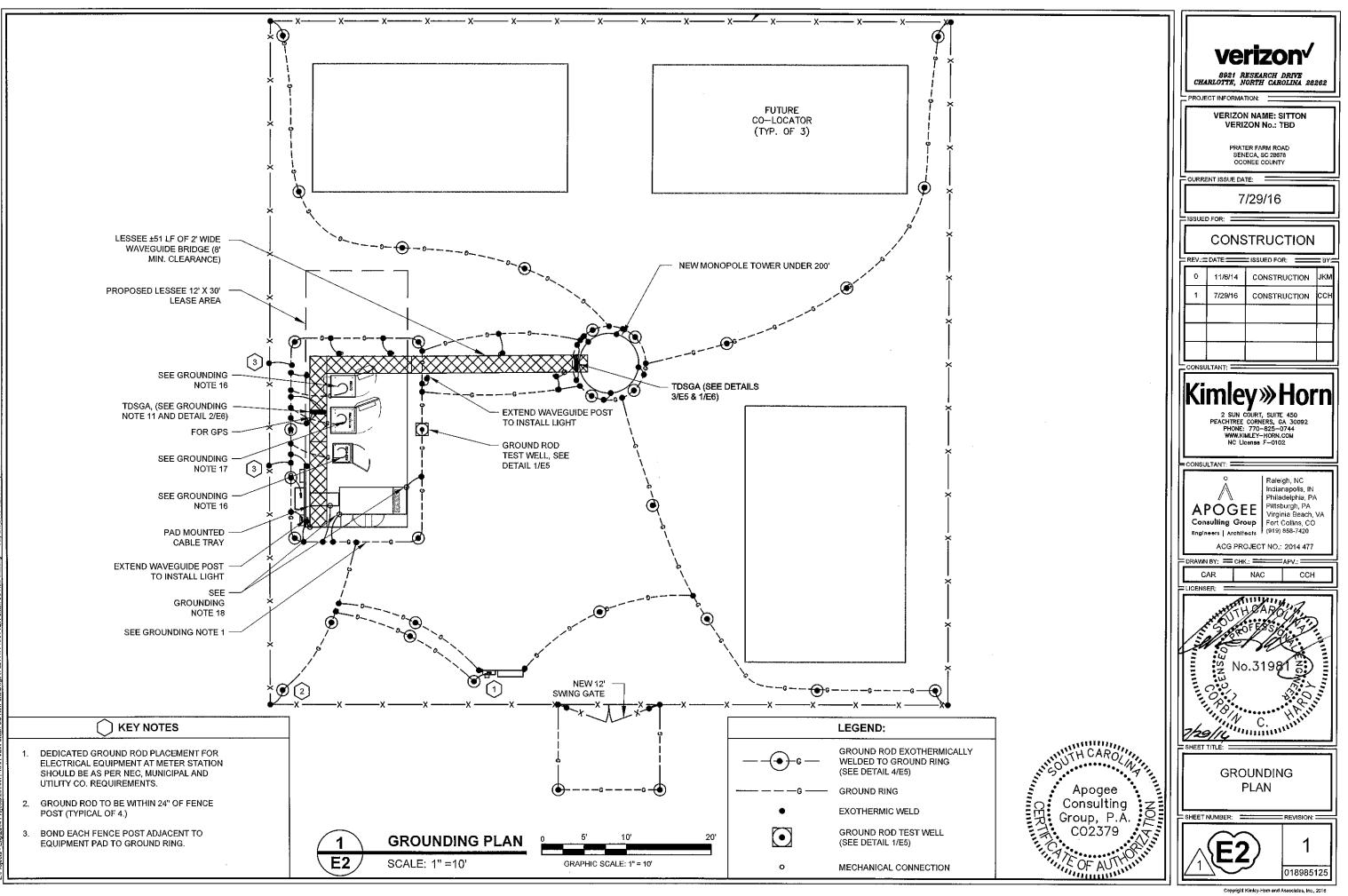
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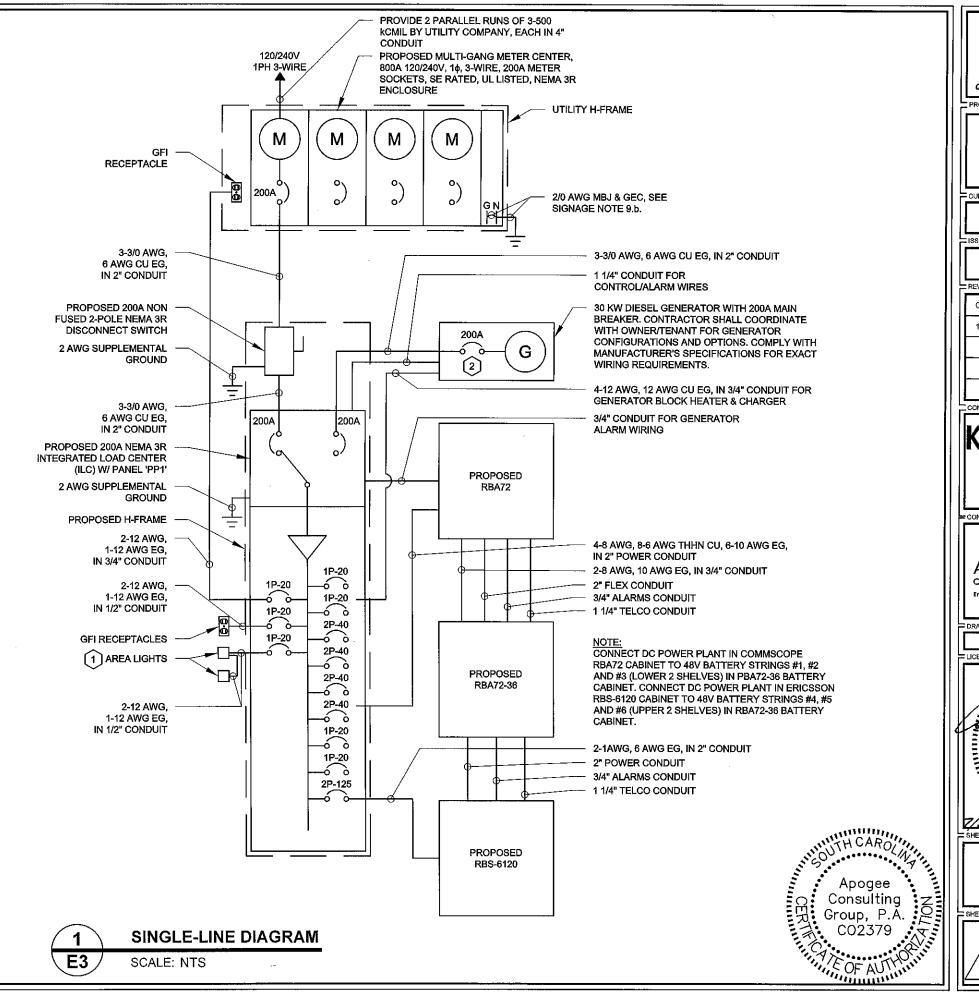
#### SINGLE-LINE NOTES AND SPECIFICATIONS:

- ELECTRIC UTILITY WILL PROVIDE METER AND INCOMING SERVICE LATERAL CONDUCTORS.
- ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE, AND LOCAL CODES.
- 3. CONTRACTOR SHALL OBTAIN OWNER/TENANT EQUIPMENT DRAWINGS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER/TENANT SPECIFICATIONS AND REQUIREMENTS THAT MAY BE ADDRESSED IN THE EQUIPMENT DRAWINGS.
- 4. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10.000 AMPS.
- 5. THE GROUNDED SERVICE CONDUCTOR (NEUTRAL CONDUCTOR) SHALL BE GROUNDED AT THE SERVICE DISCONNECTIONLY
- ALL POWER CIRCUITS SHALL USE COPPER CONDUCTORS WITH THHN/THWN INSULATION. ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES C.
- 7. CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFI) TYPE RECEPTACLES.
- 8. CONTRACTOR SHALL ENSURE ALL NEUTRAL CONDUCTORS HAVE WHITE INSULATION AND EQUIPMENT GROUND CONDUCTORS HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT ALL OWED.
- 9. PER NEC ART. 702 PROVIDE SIGNAGE AS FOLLOWS: 9.a. AT PANEL PP1 AND DISCONNECT: "EMERGENCY POWER IS SUPPLIED BY STAND-BY GENERATOR LOCATED ON OTHER SIDE OF PAD."
- 9.b. AT SERVICE DISCONNECT:

WARNING - SHOCK HAZARD EXISTS IF GROUNDING
ELECTRODE CONDUCTOR OR BONDING JUMPER
CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE
ALTERNATE SOURCE(S) IS ENERGIZED. OPENING THE
EQUIPMENT DISCONNECT WILL CAUSE THE EMERGENCY
GENERATOR TO START. TO REMOVE POWER ENTIRELY
FROM THE EQUIPMENT, THE GENERATOR MUST BE TURNED
OFF AND THE GENERATOR BREAKER MUST BE OPEN

#### KEY NOTES

- AREA LIGHT LITHONIA HER 250M SCWA DNA LP1. CONTROL VIA CONTRACTOR PROVIDED MANUAL TIMER SWITCH (WEATHERPROOF)
- 2. THE GENERATOR USED IN CONJUNCTION WITH A 2-POLE AUTOMATIC TRANSFER SWITCH WITH A SOLD NEUTRAL IS NOT A SEPARATELY DERIVED SYSTEM. AS SUCH, DO NOT BOND THE NEUTRAL TO GROUND AT THE GENERATOR.



verizon/

8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

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> PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

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CONCLUTANT

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CONSULTANT:

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Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO (919) 858-7420

ACG PROJECT NO.: 2014 477

 DRAWN BY:
 CHK.:
 APV.:

 CAR
 NAC
 CCH

No. 31981 Z

SINGLE-LINE DIAGRAM

SHEET NUMBER: REVISION:



LOAD SERVED		/A / Phase	J 0, (,	СКТ	NEUTRAL	CKT	СКТ		/A / Phase	LOA	D SERVE	D
OF U. D. O. O. C. U.S. A. T. C. D.	A	В	BRKR	NO	A B	NO	BRKR	Α	Α			
GEN BLOCK HEATER	0.50		1P-20	1		2	2P-40	2.84		RBA 72		
AREA LIGHTS		0.60	1P-20	3		4			2.84			
GFCI RECEPTACLE	0.18		1P-20	5		6	2P-40	2,84		RBA 72		
GFCI RECEPTACLE		0.18	1P-20	7		8	<del> </del>		2.84	 		
GEN CHARGER	0.10		1P-20	9		10	2P-40	2.84		-RBA 72		
SPARE		0.00	1P-20	11		12			2.84			
SPARE	0.00		1P-20	13	ļ	14	2P-40	0.00		RBA 72 (FUTUR	E)	
SPARE		0.00	1P-20	15		16			0,00	NBA 72 (LOTOICE)		
SPARE	0.00		1P-20	17		18	1P-20	0.18		GFCI RECEPTA		
SPARE	_	0.00	1P-20	19		20	1P-20		0.18	GFCI RECEPTA	CLE	
SPARE	0.00		1P-20	21		22	2P-125	3.95		RBS 6120 (3 PSU's)		
SPARE		0,00	1P-20	23		24	ZF-123		3.95	1103 0120 (3 F	10 5)	
SPARE	0.00		1P-20	25		26	1P-20	0.00		SPARE		
SPARE		0.00	1P-20	27		28	1P-20		0.00	SPARE		
SPARE	0.00		1P-20	29		30	1P-20	0.00		SPARE		
SPARE		0.00	1P-20	31		32	1P-20		0.00	SPARE		
SPARE	0.00		1P-20	33		34	1P-20	0.00		SPARE		
SPARE		0.00	1P-20	35		36	1P-20		0.00	SPARE		
SPARE	0.00		1P-20	37		38	1P-20	0.00		SPARE		
TVSS	0.00		00 2P-30	39		40	1P-20		0.00	SPARE		
1433	0.00		21-50	41		42	1P-20	0.00		SPARE		
SUB TOTAL	0.78	0.78						12.65	12.65	SUB TOTAL		
								13.43	13.43	TOTAL		
C/B TEMP. 75 C. RATING 120 240 V 1 PH 3 V		V <u>1</u> PH <u>3</u> W	LOAD TYPE			CONNEC	TED KVA	NEC DEM	DEMAI	ND KVA		
MOUNTING SURFACE, NEMA 3R							F E.	Α	В	FACTOR	Α	В
ISOLATED GROUND BUS	NO_				ERAL LIGH			0.00	0.60	125%	0.00	0.75
MAIN CIRCUIT BREAKER	NO			GENERAL USE RECEPT					≤10 KVA@100%	0.36	0.36	
SERVICE ENTR. RATED	NO	l			ORS AND		LARGEST	0.36 3.95	0.36 3.95	>10KVA@50% 125%	0.00 4.94	0.00 4.94
MINIMUM AIC (K AMPS) 22 MCB RATING MLO					IPMENT		ALL OTHERS	9.12	8.52	100%	9.12	8.52
BUS RATING 200A					RIOR LIGH		ALL OTHERS	0.00	0.00	125%	0.00	0.00
NEUTRAL RATING 100%					CATED RE		-	0.00	0.00	100%	0.00	0.00
				SIGN				0.00	0.00	125%	0.00	0.00
				FIXE	LEC. SPA	CE HE	AT	0.00	0.00	100%	0.00	0.00
				TOTAL KVA PER PHASE 13.43 13.43 14.42				14.57				
				TOTAL DEMAND AMPERES PER PHASE 120					121			
` <u> </u>					PANEL / FEEDER (TOTAL KVA)					28.99		
(TOTAL KVA) X 1000 = TOTAL AMPS						20.99						
PANEL 'PP1' (PROPOSED ILC)				VOLTS				121				
MILL III (I NOI OOLD ILO)							-					121



**PANEL SCHEDULE** 

SCALE: NTS

Apogee
Consulting
Group, P.A.
CO2379
COF AUTHORITICATION



8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

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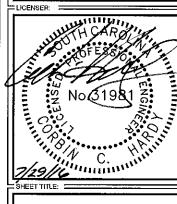
CONSULTANT:



Raleigh, NC

ACG PROJECT NO.: 2014 477

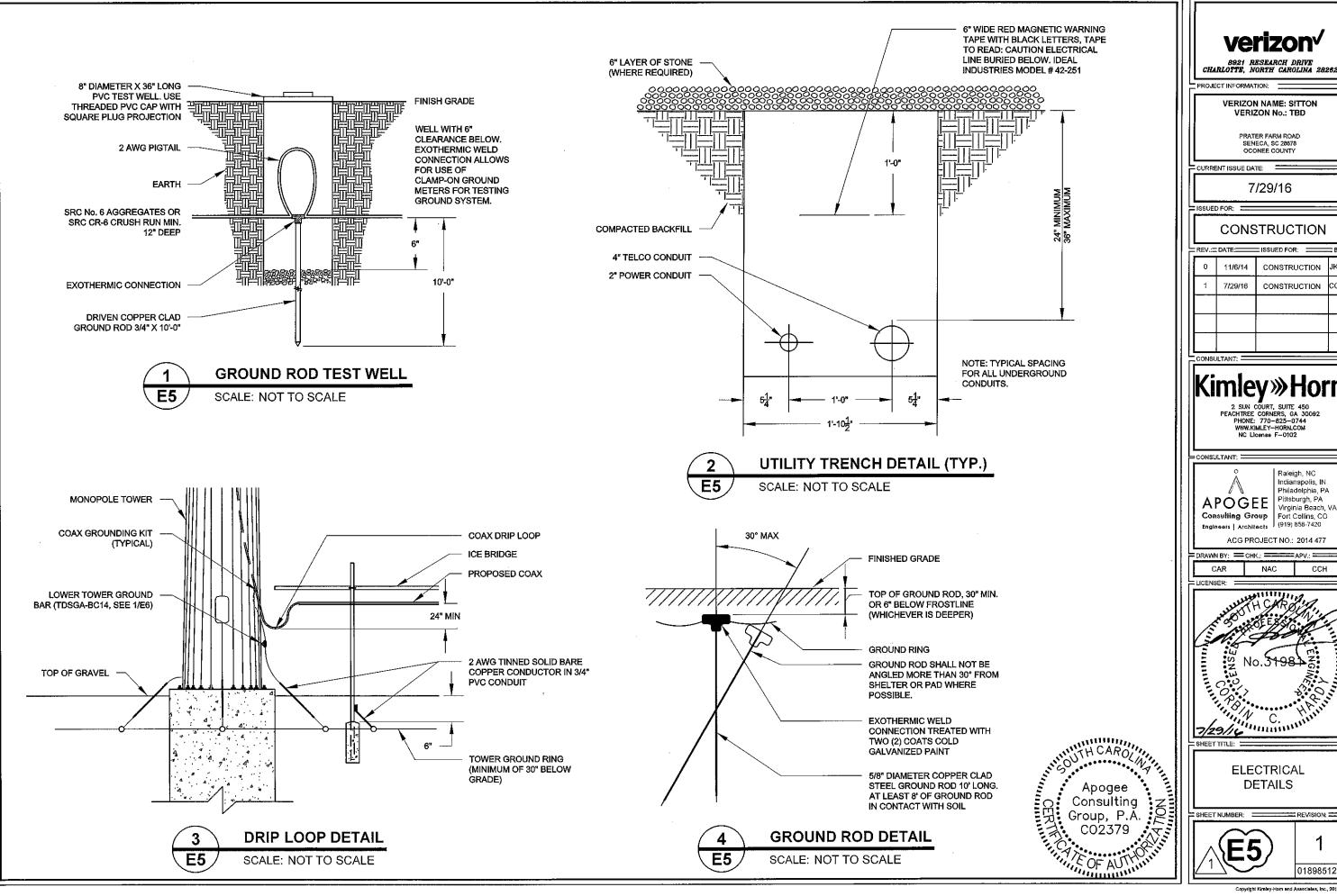
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**ELECTRICAL DETAILS** 

SHEET NUMBER: REVISION:





8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28282

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> PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

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Raleigh, NC Indianapolis, IN Philadelphia, PA

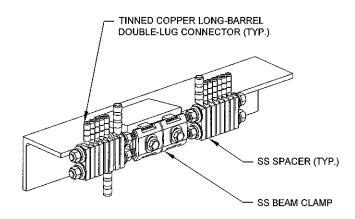
ACG PROJECT NO.: 2014 477

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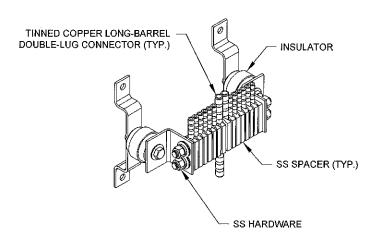
**ELECTRICAL DETAILS** 





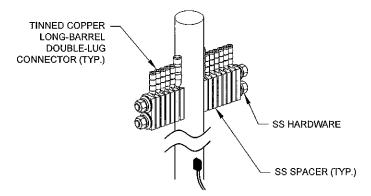
**BAR NONE GROUNDED BEAM CLAMP** 

TDSGA-BC14 GROUND BAR E6 SCALE: NTS



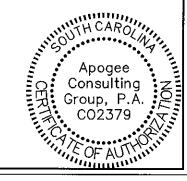
**BAR NONE INSULATED** 

**TDSGA-WB17 GROUND BAR** E6 SCALE: NTS



**BAR NONE POST MOUNTED** 

**TDSGA-PA14 GROUND BAR** SCALE: NTS





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# **Kimley Morn**

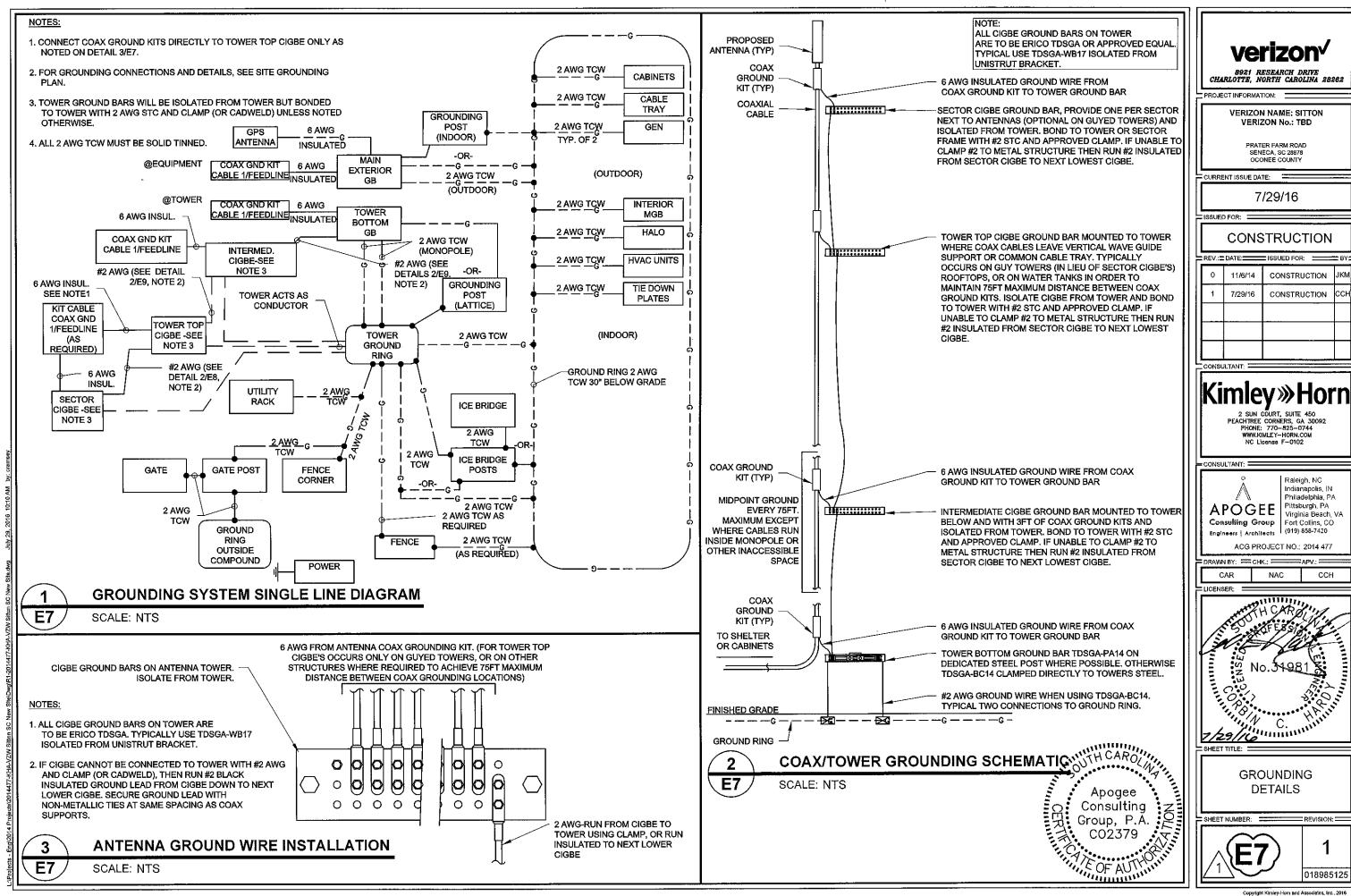
= CONSULTANT: =

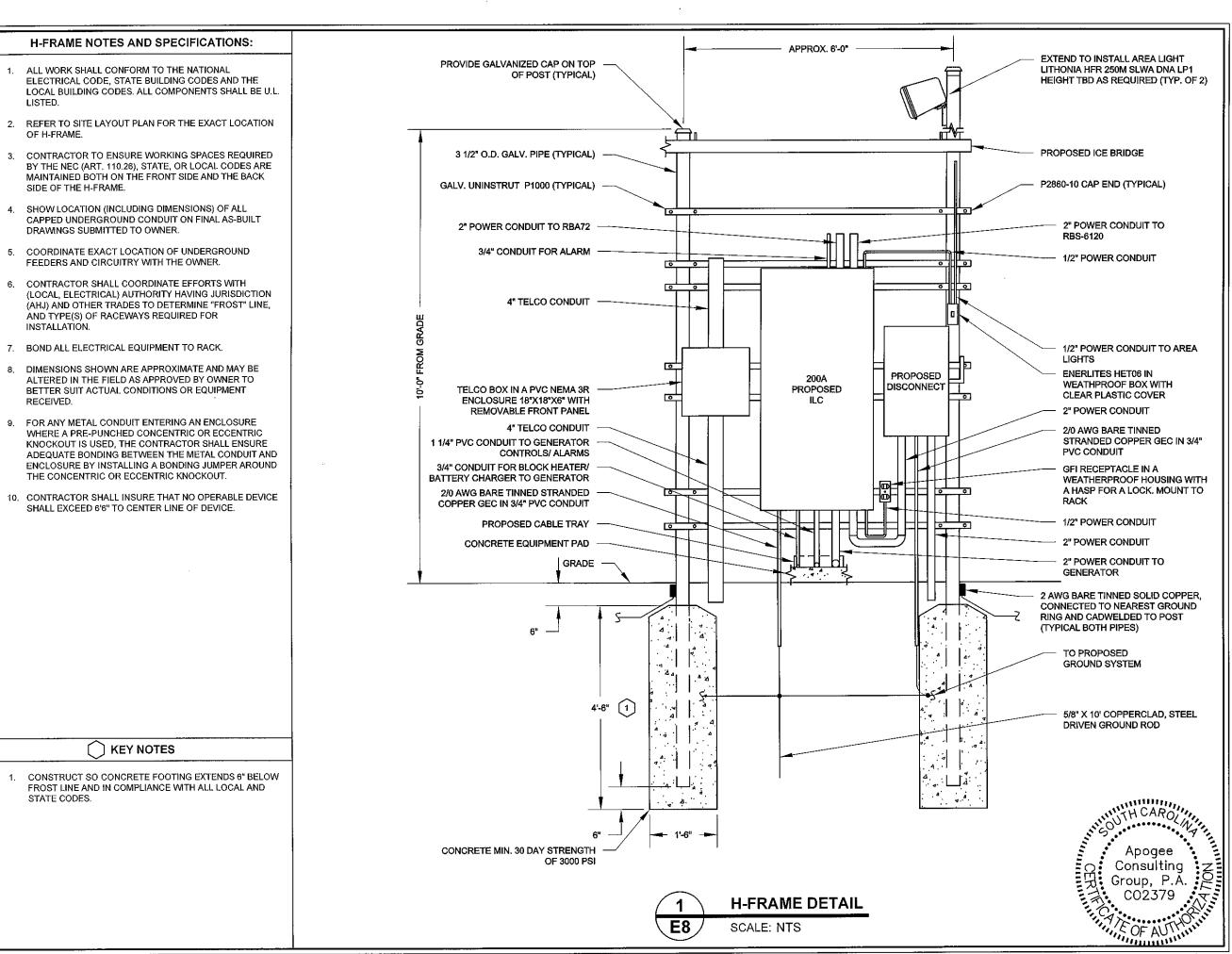
Indianapolis, IN Philadelphia, PA APOGEE Pittsburgo, FO Virginia Beach, VA Fort Collins, CO Engineers | Architects (919) 858-7420

ACG PROJECT NO.: 2014 477

**ELECTRICAL** DETAILS

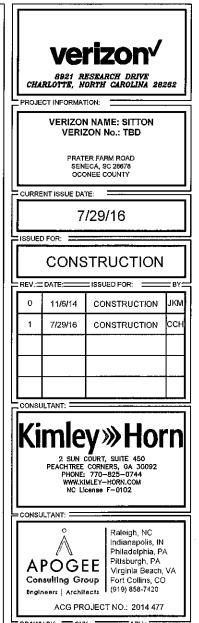
SHEET NUMBER:





**E8** 

SCALE: NTS



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**ELECTRICAL** DETAILS

SHEET NUMBER:

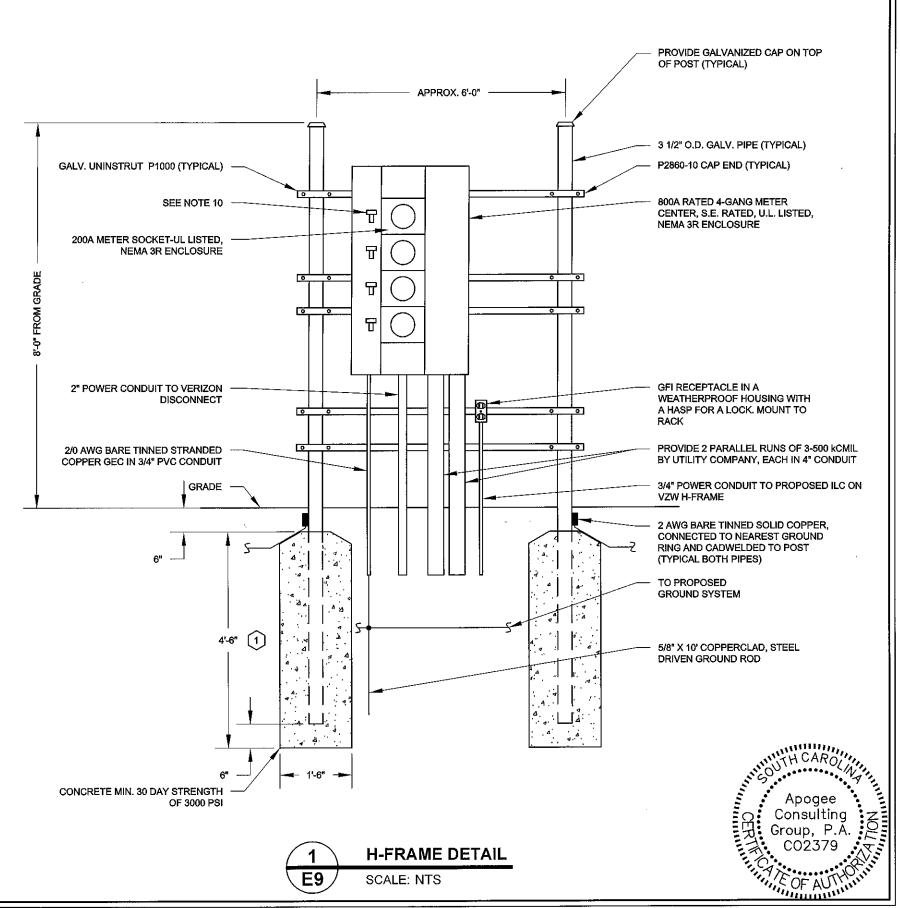
REVISION:

#### H-FRAME NOTES AND SPECIFICATIONS:

- ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, STATE BUILDING CODES AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L.
- REFER TO SITE LAYOUT PLAN FOR THE EXACT LOCATION OF H-FRAME.
- CONTRACTOR TO ENSURE WORKING SPACES REQUIRED BY THE NEC (ART. 110.26), STATE, OR LOCAL CODES ARE MAINTAINED BOTH ON THE FRONT SIDE AND THE BACK SIDE OF THE H-FRAME
- SHOW LOCATION (INCLUDING DIMENSIONS) OF ALL CAPPED UNDERGROUND CONDUIT ON FINAL AS-BUILT DRAWINGS SUBMITTED TO OWNER.
- COORDINATE EXACT LOCATION OF UNDERGROUND FEEDERS AND CIRCUITRY WITH THE OWNER.
- CONTRACTOR SHALL COORDINATE EFFORTS WITH (LOCAL, ELECTRICAL) AUTHORITY HAVING JURISDICTION (AHJ) AND OTHER TRADES TO DETERMINE "FROST" LINE, AND TYPE(S) OF RACEWAYS REQUIRED FOR INSTALLATION.
- 7. BOND ALL ELECTRICAL EQUIPMENT TO RACK.
- DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ALTERED IN THE FIELD AS APPROVED BY OWNER TO BETTER SUIT ACTUAL CONDITIONS OR EQUIPMENT
- FOR ANY METAL CONDUIT ENTERING AN ENCLOSURE WHERE A PRE-PUNCHED CONCENTRIC OR ECCENTRIC KNOCKOUT IS USED, THE CONTRACTOR SHALL ENSURE ADEQUATE BONDING BETWEEN THE METAL CONDUIT AND ENCLOSURE BY INSTALLING A BONDING JUMPER AROUND THE CONCENTRIC OR ECCENTRIC KNOCKOUT.
- 10. CONTRACTOR SHALL INSURE THAT NO OPERABLE DEVICE SHALL EXCEED 6'6" TO CENTER LINE OF DEVICE.



CONSTRUCT SO CONCRETE FOOTING EXTENDS 6" BELOW FROST LINE AND IN COMPLIANCE WITH ALL LOCAL AND STATE CODES.





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ISSUED FOR:

#### CONSTRUCTION

11/6/14 CONSTRUCTION 7/29/16 CONSTRUCTION

CONSULTANT:

### **Kimley** »Horn

PEACHTREE CORNERS, GA 30 PHONE: 770-825-0744 WWW.KIMLEY-HORN.COM

ONSULTANT:



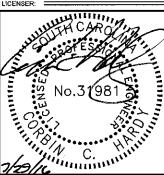
Engineers | Architects

Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO 919) 858-7420

ACG PROJECT NO.: 2014 477

DRAWN BY: CHK.: APV.:

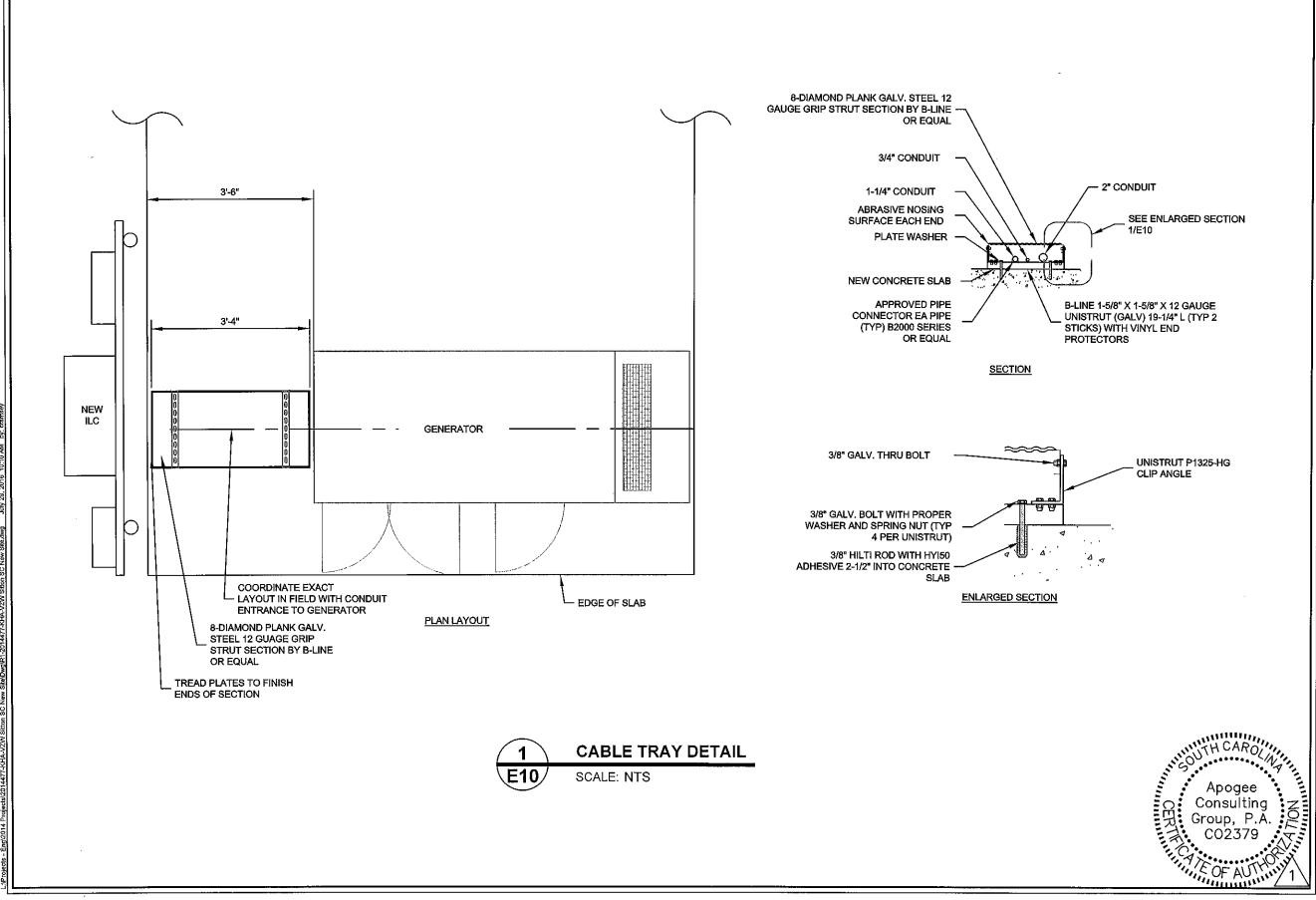
NAC CCH



**ELECTRICAL** DETAILS

SHEET NUMBER:

= REVISION: ===





6921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28282

ROJECT INFORMATION:

VERIZON NAME: SITTON VERIZON No.: TBD

> PRATER FARM ROAD SENECA, SC 28678 OCONEE COUNTY

CURRENT ISSUE DATE:

7/29/16

ISSUED FOR:

CONSTRUCTION

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:

APOGE

APOGEE
Consulting Group
Engineers | Architects

Philadelphia, PA
Pittsburgh, PA
Virginia Beach, VA
Fort Collins, CO
(919) 858-7420

Raleigh, NC

Indianapolis, IN

ACG PROJECT NO.: 2014 477

DRAWN BY: CHK.: APV.: CCH

No.34981

ELECTRICAL DETAILS

SHEET NUMBER: REVISION:

**E10** 

opyright Kimley-Horn and Associates, Inc., 2016

**Network Operations** 



Verizon Wireless 8921 Research Drive Charlotte, North Carolina 28262 Phone 704 510-8500

February 3, 2017

Greg Gordos, Senior Planner
Oconee County Community Development Department
Planning and Zoning Division
415 South Pine Street
Walhalla, SC 29691

Re: Proposed Verizon Wireless Telecommunications Tower on Prater Farm

Road

Tax/Pin R2910002012

Verizon Site Name: SITTON

To whom it may concern:

I am providing this Letter to comply with Zoning Code Section 32-133 (b). Verizon Wireless engineers have determined that the Verizon Wireless network requires that the tower that we are referring as "SITTON." be located within a certain portion of Oconee County.

Verizon Wireless had done a review of said area to locate any existing sites that could serve as an alternative to constructing a new tower. After doing a thorough review of the search area, Verizon Wireless was not able to locate any existing cell towers or buildings that are of adequate height to provide a co-location option for these antennas (165'). Verizon's evaluation included reviewing the possibility of co-locating on existing towers or structures, including electric utility company transmission line towers; and/or reconstruction of, or new construction within the footprints of existing electric utility company transmission line towers;

Also, we inquired and were informed by Oconee County that there were no sites near this proposed site that were preselected in the county-wide communication tower site study.

Very truly yours,
M.chel Lane

Michael Haven

Verizon Wireless Manager

RE/ Regulatory



### 9221 Lyndon B. Johnson Freeway, #204, Dallas, TX 75243 ★ PHONE 972-231-8893 ★ FAX 1-866-364-8375 www.allprocqi.com ★ e-mail: info@allprocqi.com

February 3, 2017

Oconee County Community Development 415 S Pine St. Walhalla, South Carolina 29691

**Ref:** Site Name –Sitton– 165' Monopole Tower

ACGI# 17-0670

Jurisdiction: Oconee County, SC

Site Address: Prater Farm Road, Seneca, SC 28676 Scope of Work: Engineering Specification Letter

Applicable Code:

IBC 2015 & ASCE 7–10, ANSI/TIA-222-G, Risk Category II, International Fire Code, 2015 edition Wind Speed: IBC2015(115 mph ultimate wind speed), ANSI/TIA-222-G (Equivalent 89 mph

nominal wind speed ), Exposure "C"

This letter is provided in reference to the above mentioned site for the following specifications:

- The purpose of this tower is to support telecommunication antenna equipment for cellular coverage of the affected area.
- 2. Above reference tower to be designed to meet or exceed industry standards defined by ANSI/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas" (ANSI/TIA-222-G Standard).
- The total height of tower is 165' with highest appurtenance to 174'. All site location data to be re-verified by survey.
- 4. Above reference tower shall be constructed and contain only equipment meeting standards of the Federal Communication Commission (FCC) regulations; and comply with all other applicable federal, state, and local regulations.
- 5. The power density of the above reference site shall not exceed federally approved levels, or American National Standards Institute (ANSI) standards, whichever provides for stricter requirements. The tower shall be designed and constructed meeting the requirements of International Fire Code, 2015 edition.
- 6. The tower must be designed and certified by an Engineer to be structurally sound and as a minimum in conformance with the adopted Building code. This tower to be designed using the following minimum wind speed criteria as defined by ANSI/TIA-222-G for Oconee County, SC:
  - 89 mph 3-second-gust nominal wind speed with no ice.
  - ii) 30 mph 3-second-gust wind speed with 0.75" ice.

The "3-second-gust wind speed refers to a wind measured at 33 ft. above the ground. Equations in ANSI/TIA-222-G Standard take into account that the wind speed escalates with the increasing height of the tower.

If you have any other questions or concerns regarding our recommendations, please contact us.

Sincerely,

Jingcheng Li, EIT

02/03/2017



Approved by:

Joji M. George, P.E SC PE # 26840

#### REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



#### **Federal Communications Commission**

#### **Wireless Telecommunications Bureau**

#### RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022

<b>Call Sign</b> WPUD533	File Number
<b>Radio</b>	Service
CW - PCS	Broadband

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 02-06-2008	Effective Date 11-01-2016	Expiration Date 12-29-2017	Print Date	
Market Number BTA016	Chan	nel Block	Sub-Market Designator	
		t Name son, SC		
<b>1st Build-out Date</b> 12-29-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date	

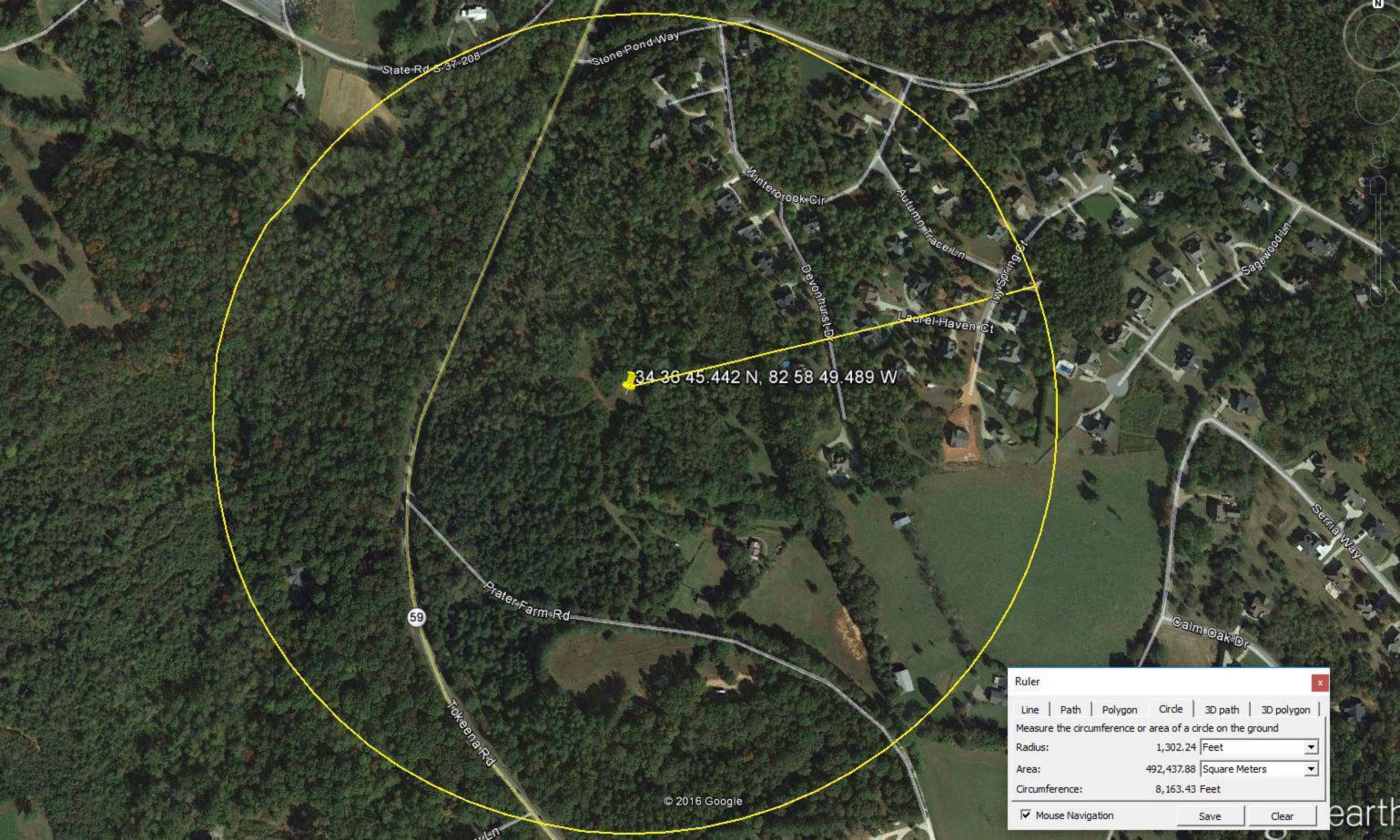
#### Waivers/Conditions:

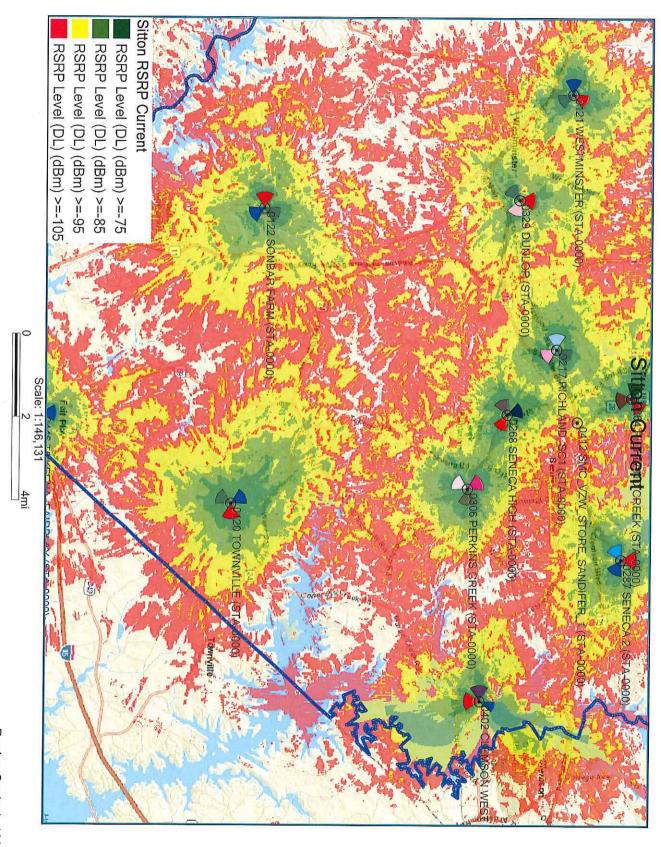
**NONE** 

#### **Conditions:**

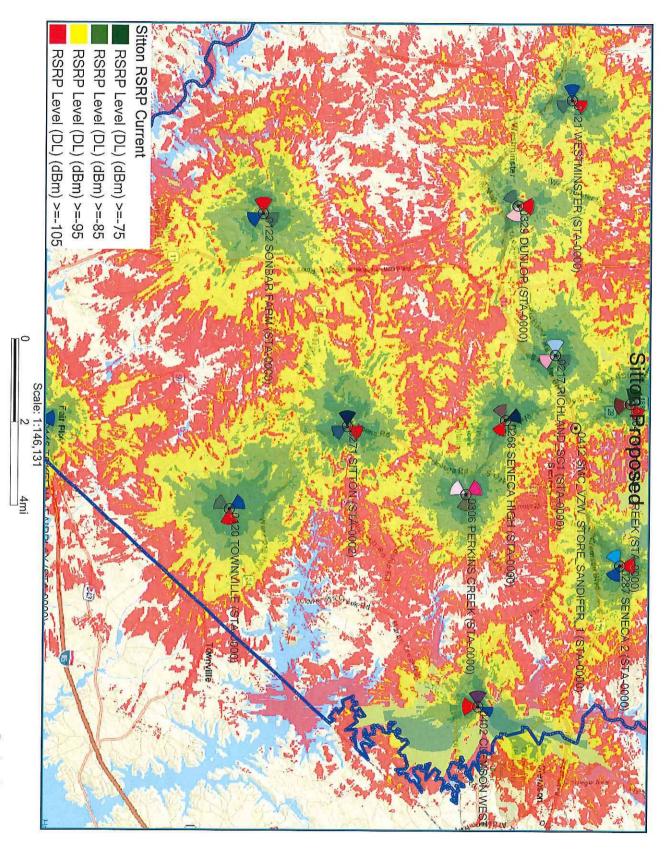
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.





Design Scale 1: 100,000



Design Scale 1: 100,000



February 20, 2017

Mr. Keith Markland Kimley-Horn and Associates, Inc. 10 Roswell Street #210 Alpharetta, GA 30009

Re: Sitton Site

Gould Digital Imaging 165' Balloon Test Report

My name is Michael Gould, and I am owner and operator of Gould Digital Imaging. Kimley-Horn and Associates hired Gould Digital Imaging to perform various aspects of photographic imaging work in connection with the development of Verizon Wireless' telecommunications services network in the Seneca, SC metropolitan area.

I have over eighteen years' experience working specifically with telecommunications companies including T-Mobile, Inc., AT&T Wireless, Verizon Wireless, Nextel, Alltel, Cricket, Sprint PCS, COMPASS Technology Services, Inc., Crown Castle International, Vertical Bridge, and American Tower Corporation in preparing photographic simulations of telecommunications towers. I have a Bachelors Degree in Art from St. Mary's College of Maryland; over twenty years of professional experience in the field of digital photographic enhancement and I have produced approximately 6,000 photographic simulations for Verizon Wireless, AT&T, T-Mobile, Inc., American Tower Corp., and other telecommunications services companies.

Kimley-Horn and Associates hired Gould Digital Imaging to perform a "165 foot Balloon Test" at Verizon Wireless' Sitton site on Prater Farm Road, in Seneca, SC. A balloon test is a visual reference of how tall a proposed structure would appear if constructed. A ten foot long red blimp shaped helium balloon is filled and raised above the proposed site on a measured line to the height of the proposed structure and anchored to the ground at the proposed site.

At approximately 10:45am on Tuesday, February 13<sup>th</sup>, 2017, the balloon was raised to a height of 165 feet to the bottom of the blimp and anchored at the center of the leased area. The wind was relatively calm and the balloon was flying directly above its anchor throughout the entire test. The balloon was left aloft until 11:30am.

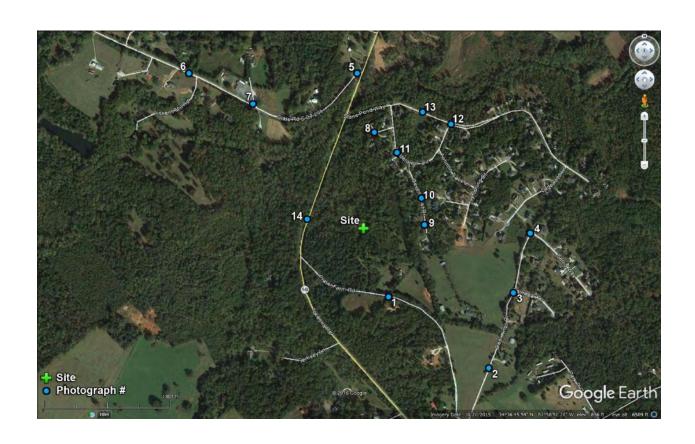
I drove around the surrounding "area of affect" and took photographs from several adjoining properties and other points of potential visual impact. I deployed the use of a hand held GPS unit that indicated the bearing and distance I was from the balloon as I canvassed the area for any possible views of the balloon.

This report includes a site photography map denoting the location of the proposed tower and the locations of all photographs that were taken of the site as well as copies of the photographs.

In my professional opinion, these photographs reflect to a reasonable certainty the anticipated projection of the height of the tower if constructed at the Sitton site. If you need any additional information, please do not hesitate to call me at (770) 617-2958 or e-mail at michael@goulddigitalimaging.com.

Sincerely,

**Gould Digital Imaging**Michael D. Gould/Owner









































## CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY) 02/01/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).							
PRODUCER	CONTACT NAME:						
Aon Risk Services Northeast, Inc. New York NY Office	PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): (800) 363-010	5					
New York NY 10038-3551 USA	E-MAIL ADDRESS:						
	INSURER(S) AFFORDING COVERAGE	NAIC#					
INSURED	INSURER A: National Union Fire Ins Co of Pittsburgh	19445					
Verizon Wireless, LLC	INSURER B:						
1095 Avenue of the Americas New York NY 10036 USA	INSURER C:						
	INSURER D:						
	INSURER E:						
	INSURER F:						
COVERAGES CERTIFICATE NUMBER: 5700654322	01 <b>REVISION NUMBER</b> :						
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HA' INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORD	OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO V	HICH THIS					
EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAV		- ,					

INSR LTR		TYPE OF INSURANCE	ADDL INSD	SUBR WVD		POLICY EFF (MM/DD/YYYY)	(MM/DD/YYYY)	LIMITS	•
Α	Х	COMMERCIAL GENERAL LIABILITY			GL3796651	06/30/2016			\$1,000,000
		CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
	Х	XCU Included						MED EXP (Any one person)	\$10,000
								PERSONAL & ADV INJURY	\$1,000,000
	GEI	N'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$1,000,000
	Χ	POLICY PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$1,000,000
		OTHER:							
	AU1	TOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	
		ANY AUTO						BODILY INJURY ( Per person)	
	OWNED SCHEDULED							BODILY INJURY (Per accident)	
		AUTOS ONLY AUTOS HIRED AUTOS NON-OWNED						PROPERTY DAMAGE	
		ONLY AUTOS ONLY						(Per accident)	
		UMBRELLA LIAB OCCUR						EACH OCCURRENCE	
		EXCESS LIAB CLAIMS-MADE						AGGREGATE	
		DED RETENTION							
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)							PER OTH- STATUTE ER	
			N/A					E.L. EACH ACCIDENT	
							E.L. DISEASE-EA EMPLOYEE		
	If y	es, describe under SCRIPTION OF OPERATIONS below						E.L. DISEASE-POLICY LIMIT	
DESC	DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)								

RE: Verizon New Build Site "Sitton", PS Location #303546. Oconee County is included as an Additional Insured with respect to the General Liability policy.

CERTIFICATE HOLDER	
--------------------	--

Oconee County Community Development Planning & Zoning Division 415 S. Pine St. Walhalla SC 29691 USA

SHOULD ANY OF	THE ABOVE	DESCRIBED	POLICIES BE	CANCELLED	BEFORE	THE
EXPIRATION DATE	THEREOF, NO	OTICE WILL B	E DELIVERED	IN ACCORDAN	NCE WITH	THE
POLICY PROVISION:	S.					

AUTHORIZED REPRESENTATIVE

**CANCELLATION** 

Aon Prish Services Northeast, Ind



Inspired ideas.
Integrated real estate solutions.

April 4, 2017

Board of Zoning Appeals Oconee County Community Development 415 S. Pine Street Walhalla, SC 29691

RE: Hartwell Village / Requested Variance for Internal Side Setbacks

Hartwell Village is a proposed commercial/mixed use project at the intersection of Highway 123 (Clemson Boulevard) and SC 93 (Pendleton Road). The property has a zoning classification of Control Free District (CFD) and has been subdivided into 8 lots and may be further subdivided as necessary to complete the development of the project. Commercial developments, specifically shopping centers are typically subdivided to allow for separate ownerships, phasing of the development and/or to meet financing conditions. In many cases a shopping center appears as one property but is actually subdivided into several parcels with private agreements addressing the common development and operation of the center creating a center with a unified appearance and operation.

We are requesting a variance from the 5 foot side setbacks contained within the CFD to allow a zero setback for internal lot lines. The zero setback on the internal lot lines will allow for the shopping center to be developed as a unified project without separation between buildings due solely to side setbacks. A zero side setback is fairly common within a shopping center or Unified Commercial Development. The requirement for a setback between buildings within the center would create a condition that will restrict the ability to develop the shopping center appropriately and utilize the property by requiring a 10 foot separation between buildings on separate lots. We believe the approval of the variance is consistent with other shopping centers within Oconee County and does not create a detriment to the public good or damage adjacent properties within the area. Lastly, the approval of this variance request will not change any of the allowed uses on the property.

I have attached the current subdivision of the property and the approved site plan for reference. In order to phase the project, lot 2 will be further subdivided to allow the phasing of the project. The areas in red and yellow on the attached site plan will be constructed as the first phase of the center (including all necessary parking and access roads). The granting of the variance will allow for the future construction of buildings

adjacent to the initial phase and to meet the requirements for financing the project in phases.

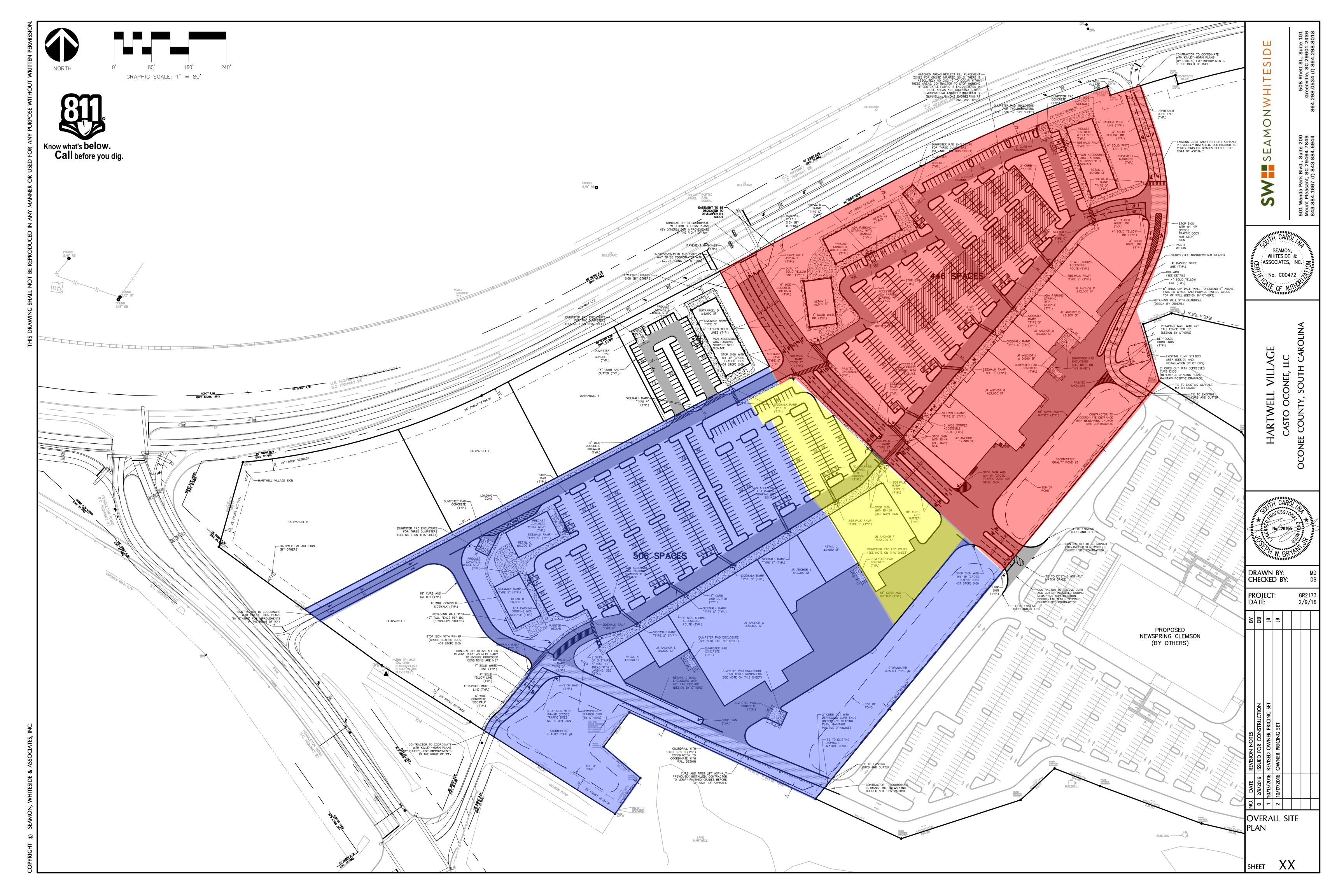
We respectfully request your approval of the requested variance to allow zero setback for internal lot lines at Hartwell Village.

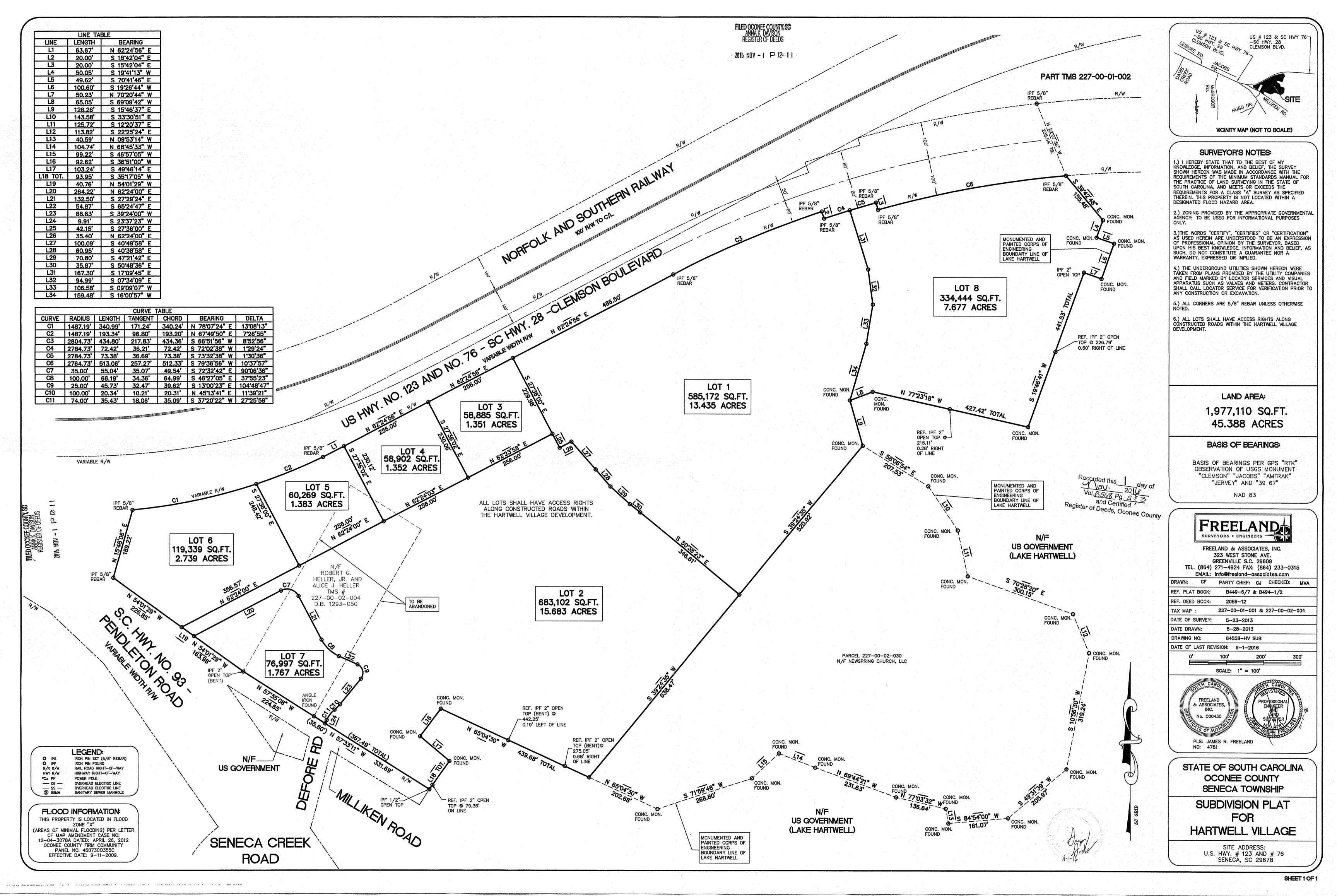
I VUMMAN

Thomas Lowell

Vice President of Construction and Development

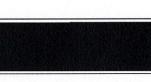
**CASTO** 





144"

24"













MONSTER ORANGE PANTONE 757BC C: 7.77 M: 71.07 Y: 96.73 K: 0.43

\*LOGO COLORS NEED VERIFIED.

D

QUANTITY (2) 108"H x 144"W double sided internally illuminated cabinet with painted and embossed pan formed faces and 3" retainers mounted to 66"H x 144"W x 24" deep stone base by



MONSTER ORANGE
CLOSEST MATCH PANTONE 567C
C:84.54
M:46.56
Y: 82.83
K: 55.35

3184 Wade Hampton Blvd. Taylors, SC 28687
FAX: 864-244-9877 PHONE: 864-244-0040 www.StClairSigns.com

CLIENT: Monster Self Storage

\_NOT TO SCALE

EMAIL:

PHONE:

SALESMAN: BRYAN

ELF STORAGE

647-9020

DATE: 4.6.17 DESIGNER: BRIANNA

receipt of your signed and date \*\*Production will proceed upon approval\*\*\*\*

quantities, sizes, colors, spelling, and overall concept(s) contained in your will apply. production begins will be your layout. Any corrections made after responsibility and additional charges It is your responsibility to verify

\*PLEASE NOTE\*

St. Clair Signs is happy to provide one Any revisions thereafter are subject to complimentary sign layout revision. complimentary sign layout and one graphic design fees at a rate of \$85.00 per hour.

## NOTES:

SALES APPROVAL:

CLIENT APPROVAL:



PMS 7578 C PMS 567 C - CLOSEST MATCH COLOR:

YES: 8

**VECTOR NEEDED?** 

= SQFT

DATE:

DATE: