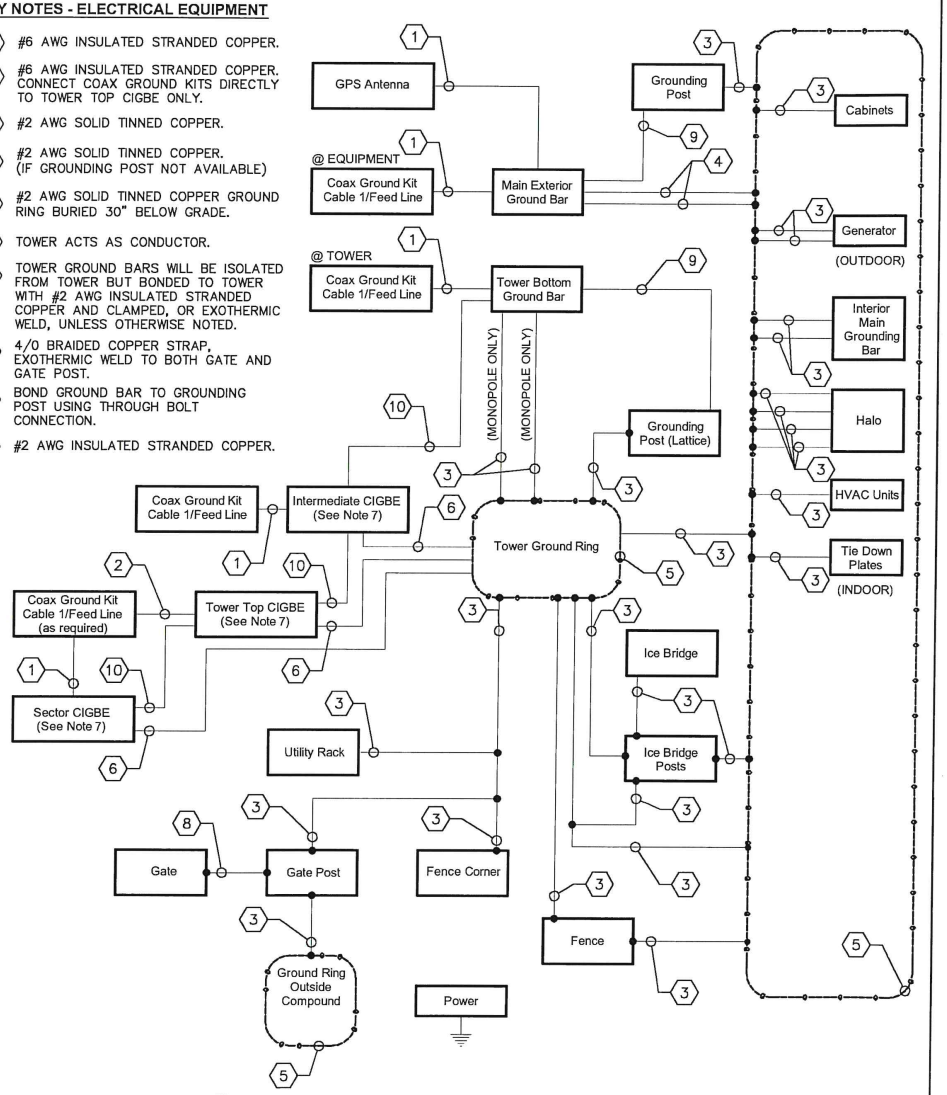
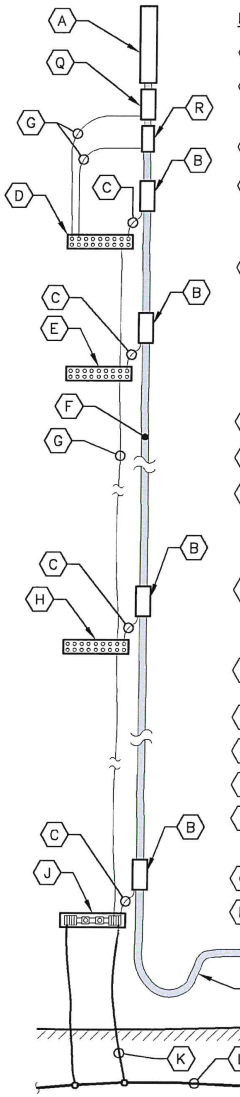
KEY NOTES - ELECTRICAL EQUIPMENT

1. #6 AWG INSULATED STRANDED COPPER.
2. #6 AWG INSULATED STRANDED COPPER. CONNECT COAX GROUND KITS DIRECTLY TO TOWER TOP CIGBE ONLY.
3. #2 AWG SOLID TINNED COPPER.
4. #2 AWG SOLID TINNED COPPER. (IF GROUNDING POST NOT AVAILABLE)
5. #2 AWG SOLID TINNED COPPER GROUND RING BURIED 30" BELOW GRADE.
6. TOWER ACTS AS CONDUCTOR.
7. TOWER GROUND BARS WILL BE ISOLATED FROM TOWER BUT BONDED TO TOWER WITH #2 AWG INSULATED STRANDED COPPER AND CLAMPED, OR EXOTHERMIC WELD, UNLESS OTHERWISE NOTED.
8. 4/0 BRAIDED COPPER STRAP, EXOTHERMIC WELD TO BOTH GATE AND GATE POST.
9. BOND GROUND BAR TO GROUNDING POST USING THROUGH BOLT CONNECTION.
10. #2 AWG INSULATED STRANDED COPPER.



1 E10 GROUNDING SINGLE LINE DIAGRAM
NOT TO SCALE



KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- A PROPOSED ANTENNA.
- B COAX OR HYBRID CABLE GROUNDING KIT, TYPICAL. GROUNDING KITS ARE REQUIRED EVERY 75 FT MAXIMUM EXCEPT WHERE COAX IS CONCEALED INSIDE MONOPOLE OR OTHER INACCESSIBLE SPACE.
- C #6 AWG INSULATED GROUNDING CONDUCTOR FROM COAX GROUND KIT TO TOWER GROUND BAR, TYPICAL.
- D SECTOR CIGBE GROUND BAR, PROVIDE ONE PER SECTOR NEXT TO ANTENNAS (OPTIONAL ON GUYED TOWERS) AND ISOLATED FROM TOWER. BOND TO TOWER OR SECTOR FRAME WITH #2 AWG SOLID TINNED COPPER AND APPROVED CLAMP. (SEE NOTE P BELOW)
- E TOWER TOP CIGBE GROUND BAR MOUNTED TO TOWER WHERE COAX CABLES LEAVE VERTICAL WAVE GUIDE SUPPORT OR COMMON CABLE TRAY. TYPICALLY OCCURS ON GUY TOWERS (IN LIEU OF SECTOR CIGBE'S), ROOFTOPS, OR ON WATER TANKS (THRU-BOLTED TO MESSENGER PIPE) IN ORDER TO MAINTAIN 75 FEET MAXIMUM DISTANCE BETWEEN COAX GROUND KITS. ISOLATE CIGBE FROM TOWER AND BOND TO TOWER WITH #2 AWG BARE SOLID TINNED COPPER AND APPROVED CLAMP. (SEE NOTE P BELOW)
- F COAX OR HYBRID CABLE.
- G #2 AWG INSULATED, STRANDED COPPER. (SEE NOTE P BELOW)
- H INTERMEDIATE CIGBE GROUND BAR MOUNTED TO TOWER BELOW AND WITHIN 3 FEET OF COAX GROUND KITS AND ISOLATED FROM TOWER (THRU-BOLTED TO MESSENGER PIPE ON WATER TANKS). BOND TO TOWER WITH #2 AWG BARE SOLID TINNED COPPER AND APPROVED CLAMP. (SEE NOTE P BELOW)
- J TOWER BOTTOM GROUND BAR TDSGA-PA14 ON DEDICATED STEEL POST WHERE POSSIBLE; OTHERWISE TDSGA-BC14 CLAMPED DIRECTLY TO TOWERS STEEL (THRU-BOLTED TO MESSENGER PIPE ON WATER TANKS).
- K #2 AWG BARE STRANDED TINNED COPPER GROUNDING CONDUCTOR WHEN USING TDSGA-BC14. TYPICAL TWO CONNECTIONS TO GROUND RING.
- L #2 AWG SOLID TINNED COPPER TOWER GROUND RING.
- M DRIP LOOP.
- N TO SHELTER/RF CABINETS.
- P IF UNABLE TO CLAMP #2 AWG BARE SOLID TINNED COPPER TO METAL STRUCTURE, THEN RUN #2 AWG INSULATED STRANDED TINNED COPPER FROM CIGBE TO NEXT LOWEST CIGBE.
- Q PROPOSED RRU AND DIPLEXER (IF USED).
- R PROPOSED RAYCAP.

2 E10 COAX-TOWER GROUNDING SCHEMATIC
NOT TO SCALE

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verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:
SITE NAME:
OLD STATE ROAD
SITE No.: 502591
FUZE PROJECT#: 15525785
GOOD HOPE CIRCLE
NAYLOR, GA 31641
LOWNDES COUNTY

PLANS PREPARED BY:
Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-818-4280
WWW.KIMLEY-HORN.COM

REV:	DATE:	ISSUED FOR:	BY:
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0	06/16/20	CONSTRUCTION	CCH
A	06/12/20	PRELIMINARY	CCH

LICENSER:
GEORGIA REGISTERED No. PE042571 PROFESSIONAL ENGINEER CORBIN C HARDY
6/12/20

KHA PROJECT NUMBER:
013509094

DRAWN BY:	CHECKED BY:
TDM	WCE

SHEET TITLE:
GROUNDING SINGLE LINE DIAGRAM

SHEET NUMBER:
E10