AGENDA REPORT

MEETING DATE:	November 16, 2026	Regular
DEPARTMENT:	City Manager	Steven Krokoff, City Manager Steven Krokoff Steven Krokoff (Nov 12, 2026 17:18:08 EST)
SECTION OF AGENDA:	New Business	November 16, 2026
AGENDA ITEM TITLE:	Consideration of an Addendum to the Purchase and Sale Agreement dated September 21, 2026, regarding the acquisition of the Verizon Place property regarding Tower Approvals.	
STATEMENT OF PURPOSE:	To approve the tower locations and satisfy the City's contractual tower-approval obligations, contingent upon closing and conveyance to the Development Authority of Milton, while establishing provisions for future access and utility/fiber easement relocation.	
FINANCIAL IMPACT:	The proposed temporary-location amendment leaves the $26,250,000 purchase price unchanged.	
RECOMMENDED ACTION:	Approve the addendum in the final form reviewed by the City Attorney and authorize the Mayor to execute it.	

EXECUTIVE SUMMARY:

The City's agreement to purchase approximately 51.32 acres at One, Two, and Three Verizon Place allows Verizon to maintain telecommunications service through retained antenna, access, and utility easements. Council's consideration includes a temporary facility and the proposed permanent tower, whose site area and access corridors must be incorporated into future property planning. The addendum satisfies the City's contractual tower-approval obligations, contingent upon closing and conveyance of the property to the Development Authority of Milton.

PURPOSE/BACKGROUND:

The purchase agreement requires the City to issue tower approvals that are available administratively at closing and to cooperate with Verizon in obtaining approvals issued by other authorities. It also establishes locations for the permanent and temporary facilities, with changes to those locations requiring a written amendment before the diligence approval date.

STAFF ANALYSIS:

During due diligence, Verizon requested that the temporary tower location as generally approved in the Purchase and Sale Agreement, be finalized approximately 315 feet east, closer to existing power and fiber connections Verizon advised that the final location will substantially shorten utility connections and avoid the ground disturbance associated with the original location, reducing the time needed to establish temporary service.

Exhibit H-2 depicts a proposed 99-foot-3-inch temporary, ballast-mounted monopole within a 25-foot by 25-foot fenced area, approximately 625 square feet, with a temporary easement of the same stated area. The compound includes a wireless equipment cabinet, equipment H-frame, temporary diesel generator, and chain-link gate (sheets C1 through C3).

The drawings locate the compound near the existing retention pond and existing transformer and fiber handhole. Power and fiber would run above ground in code-compliant protective conduit (sheets C2 and C3). The 625-square-foot compound should not be treated as the full area affected by installation, because the utility connections extend beyond it.

Permanent facility. The Verizon One DRAN relocation plans show a 115-foot monopine tower, 120 feet to the highest appurtenance, on the One Verizon Place parcel (tax parcel 22 544011140234). Sheet C2 labels an 85-foot by 50-foot "lease area," approximately 4,250 square feet, surrounding a gravel compound of approximately 1,560 square feet. This is separate from the temporary tower's 625-square-foot area.

Access and utilities. Sheets C1 and C2 show a 20-foot-wide access/utility easement from the existing Morris Road apron, a separate 10-foot-wide utility easement, and a 12-foot-wide paved approach to the compound. These corridors extend beyond the tower area and must remain compatible with future roads, parking, recreation improvements, and construction access.

Screening and equipment. Sheet C2 shows a 20-foot landscape buffer, with existing vegetation serving the north, east, and west sides and a planted strip along the south. The compound includes security fencing, a double gate, a 50-kW diesel generator, and space labeled for a future co-locator. These features warrant consideration of long-term visibility, noise, maintenance access, and potential additional use of the compound.

FINANCIAL IMPACT:

The addendum does not change the $26,250,000 purchase price. The purchase agreement's existing telecommunications obligations remain part of the transaction.

The location and timing of telecommunications facilities may affect demolition scheduling and future site development. If future development of the property requires relocation or modification of the access or utility/fiber easements, the developer of the land underlying the affected easement area will bear all associated costs. These costs include relocation of facilities, engineering, permitting, construction, restoration, and recording of replacement easements.

ALTERNATIVES CONSIDERED:

Council may approve the addendum, request revisions, or defer action. Any deferral must be evaluated against the purchase agreement's diligence deadline and tower-approval requirements.

LEGAL AND REGULATORY CONSIDERATIONS:

This action approves the addendum's telecommunications arrangements and satisfies the City's contractual tower-approval obligations, contingent upon closing and conveyance to the Development Authority of Milton. The preliminary status of the exhibits does not defer that contractual approval. Section 3(d) separately requires Sellers to comply with applicable federal and state requirements, including environmental review and permitting and erosion, sedimentation, and stormwater controls, and makes Sellers solely responsible for compliant installation and maintenance. Approval of a demolition contract and decisions concerning the property's final development program would be handled separately.

Exhibit H-2 is marked "Preliminary" and "Not for Construction." Its site information is reproduced from aerial imagery for illustrative purposes, and sheet C3 refers to tower and foundation specifications by others. The exhibit describes the proposed configuration; it does not establish that final engineering or permit review is complete.

For the permanent facility, sheet C3 reports zero square feet of encroachment into the depicted setbacks and shows the creek, 25-foot state waters buffer, 50-foot natural vegetation buffer, and 75-foot impervious setback. The plans' "lease area" label and easement widths should be reconciled with the controlling legal descriptions and executed instruments; the drawings alone do not establish easement duration. Section 3(b) requires the closing easement agreement to provide that Verizon and its successors and assigns reasonably cooperate with and consent to reasonable requests to relocate or modify the access and utility/fiber easements for future development. Replacement easements must provide substantially equivalent access, utility service, capacity, and functionality, with costs assigned to the subsequent developer as described above. This provision does not address relocation of the permanent tower itself.

The permanent site plan also depicts prospective mixed-use development, reconfigured parking, a pedestrian bridge, and stormwater facilities "by others." Those contextual features are not approvals of the City's future development program.

OPERATIONAL IMPACT:

The temporary facility is intended to maintain cellular service while existing rooftop equipment is relocated. Whether it is needed will depend in part on the final approach to retaining or demolishing the existing buildings and the feasibility of keeping the necessary equipment in operation. The permanent easement must also be accounted for in future planning of the property.

The above-ground utility routes and location near the retention pond should be checked against access, maintenance, drainage, demolition, and future construction needs. Staff should confirm the installation and removal schedule, site-restoration responsibilities, and responsibility for related costs in the controlling documents. The four-sheet exhibit does not establish those terms.

COMMUNITY/STAKEHOLDER IMPACT:

The temporary facility is intended to preserve cellular service during relocation of existing equipment. The nearly 100-foot tower and proposed diesel generator also warrant consideration of visibility, operating noise, and site security during final review.

STRATEGIC ALIGNMENT:

Aligns with Strategic Priority #2, Continue.smart.land.planning.to.keep.Milton.unique, and Strategic Priority #3, Acquire?manage?and.develop.public.land.and.resources.to.support.Milton's.high.quality.of.life, by supporting coordinated planning for future park, recreation, and economic development opportunities.

STAFF RECOMMENDATION:

Approve the addendum in the final form reviewed by the City Attorney and authorize the Mayor to execute it. Coordinate its execution with the diligence approval process and confirm the closing conveyance to the Development Authority of Milton and the required easement provisions so the applicable tower locations and approval obligations are established before the City proceeds beyond due diligence.

REVIEWS & APPROVALS:

Financial Review: Bernadette Harvill, Deputy City Manager – Bernadette Harvill
Bernadette Harvill (Nov 12, 2026 17:20:24 EST)
Legal Review: Jeff Strickland, Jarrard & Davis, LLP – November 12, 2026
Concurrent Review: Stacey Inglis, Deputy City Manager – Stacey Inglis
Stacey Inglis (Nov 12, 2026 17:21:52 EST)

ATTACHMENTS:

1. Addendum regarding Tower Approvals;
2. Exhibit H-1 Verizon One DRAN relocation plan set, including permanent site, access/utility, screening, and encroachment plans; applicable easement instruments and legal descriptions.
3. Exhibit H-2 temporary tower preliminary drawings (C1 through C4);

ADDENDUM TO
PURCHASE AND SALE AGREEMENT
REGARDING TOWER APPROVALS

THIS ADDENDUM TO PURCHASE AND SALE AGREEMENT REGARDING TOWER APPROVALS (this "***Addendum***") is made as of November 16, 2026, by and among **CELLCO PARTNERSHIP**, a Delaware general partnership ("***Cellco***"), **GTE WIRELESS LLC**, a Delaware limited liability company, successor by conversion to GTE Wireless Incorporated ("***GTE***"; Cellco and GTE are collectively referred to in this Amendment as "***Sellers***"), and **THE CITY OF MILTON**, a Georgia municipal corporation ("***Buyer***"). The Sellers and the Buyer may be referred to herein collectively as the "***Parties***" or individually as a "***Party***."

WITNESSETH THAT:

WHEREAS, Buyer and Sellers entered into that certain Purchase and Sale Agreement made as of September 21, 2026 (the *"**Contract**"*), with respect to certain real property located in Milton, Georgia, and being more particularly described in the Contract; and

WHEREAS, Buyer and Sellers desire to supplement the Contract as hereinafter set forth.

NOW, THEREFORE, for and in consideration of the mutual covenants contained herein, the sum of Ten Dollars ($10.00) and other good and valuable consideration, paid by each of the parties hereto to the other, the receipt and sufficiency of which are hereby acknowledged, Buyer and Sellers hereby agree as follows:

1. *Definitions*. Capitalized terms used herein and not otherwise defined herein shall have the meanings respectively ascribed to them in the Contract.

2. *Location of the Temporary Easement Area.* The Contract generally depicts the location of the Temporary Easement Area by reference to the sketch attached to the Antenna Easement as Exhibit "C." The Sellers and Buyer have since finalized and specifically identified the Temporary Easement Area, as depicted in the materials attached hereto as Exhibit "H-2." Accordingly, the final form of Antenna Easement executed by the Parties at Closing shall reflect the Temporary Easement Area as depicted in Exhibit "H-2."

3. *Tower Approvals*. Section 1(d)(iv) of the Contract states that Buyer shall cause each Tower Approval related to the Tower Location Easement Area, the Access Easement Area, the Utility and Fiber Easement Area, and the Temporary Easement Area (collectively, the Tower Approvals) for the construction and operation of antennas, related equipment and utilities and other improvements in accordance with the Antenna Easement, to be issued at Closing. The Sellers agree that the terms and conditions of this Addendum satisfies the Buyer's obligations related to the Tower Approvals under the Contract. The Tower Approvals are issued contingent upon the completion of the Closing of the Contract and whereby the Property is conveyed to the Development Authority of Milton (see City Code Sec. 8.4.5.B.2.a).

(a) *Tower Location Easement Area*. Attached hereto marked Exhibit "H-1" are preliminary design and construction plan documents related to the Tower Location Easement Area

and the proposed relocated permanent telecommunications facility and equipment necessary to operate the same. Modifications to the concrete base may be required following Sellers' completion of corresponding geotechnical surveying and other applicable site inspections.

(b) *Access Easement Area and the Utility and Fiber Easement Area*. The Access Easement Area and Utility and Fiber Easement Area, as defined and depicted in the Contract, may need to be modified or relocated in connection with future development of the surrounding properties. Accordingly, the Parties agree that the final form of Easement Agreement (see Contract, Exhibit C) will include provisions clarifying that Sellers, and their respective successors and assigns, will reasonably cooperate with and consent to reasonable requests for the relocation or modification of either easement area to accommodate such future development. Such relocated easements shall provide substantially equivalent access, utility service, capacity, and functionality as provided by the original easement areas. Any costs and expenses associated with such relocation or modification, including the relocation of any improvements, utilities, fiber lines, or other facilities installed within the applicable easement area, and including any required engineering, permitting, construction, restoration, and recording of replacement easements associated therewith, will be borne solely by the subsequent developer of the land underlying or beneath the applicable easement area.

(c) *Temporary Easement Area*. Attached hereto marked Exhibit "H-2" are preliminary design and construction plan documents related to the Temporary Easement Area and the proposed temporary telecommunications facility and equipment necessary to operate the same.

(d) *Compliance with Applicable Laws and Construction Requirements*. Sellers shall comply with all applicable federal and state laws, statutes, ordinances, codes, rules, regulations, permits, and requirements relating to the installation, construction, maintenance, and operation of the facilities. Such requirements shall include, without limitation: (i) all applicable environmental review, permitting, and compliance requirements under the National Environmental Policy Act ("NEPA") and any other applicable federal or state environmental laws and regulations, and (ii) implementation and maintenance of appropriate erosion, sedimentation, and stormwater control measures and other best management practices ("BMPs") relating to land disturbance and construction activities, including measures sufficient to prevent construction materials, sediment, debris, pollutants, or other deleterious substances from entering any state waters, wetlands, or other protected water resources. The Sellers shall be solely responsible for ensuring that the facilities are installed and maintained in compliance with all such requirements.

4. *Ratification*. Except as supplemented hereinabove, the Contract remains unmodified and is hereby ratified and confirmed for all purposes and in all respects.

5. *Counterparts*. This Addendum may be executed in multiple, telecopied counterparts, all of which shall constitute one and the same instrument.

6. *Entire Agreement.* The Contract, as supplemented by this Addendum, constitutes the entire agreement of the parties with respect to the subject matter thereof and fully supersedes any and all prior or contemporaneous written or oral agreements and understandings between the parties pertaining to such subject matter.

IN WITNESS WHEREOF, Sellers and Buyer have caused this Amendment to be executed as of the Amendment Effective Date.

SELLERS:

CELLCO:

CELLCO PARTNERSHIP,
a Delaware general partnership

By: _____
Name: _____
Title _____

GTE:

GTE WIRELESS LLC,
a Delaware limited liability company, successor by conversion to GTE Wireless Incorporated

By: _____
Name: _____
Title _____

BUYER:

THE CITY OF MILTON,
a Georgia municipal corporation

By: _____
Peyton Jamison, Mayor

Attest: _____
Tammy Lowit, City Clerk

EXHIBIT H-1

TOWER APPROVAL SUPPORT DOCUMENTATION

TOWER LOCATION EASEMENT AREA

(37-page document attached)

EXHIBIT H-2

TOWER APPROVAL SUPPORT DOCUMENTATION

TEMPORARY EASEMENT AREA

(4-page document attached)

verizon

10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GA 30022

VERIZON_ONE_DRAN_RELO

FUZE PROJECT ID: 17358573

MDG LOCATION ID: 5000970930

SITE ADDRESS (E-911 TBD)

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY
LATITUDE: 34° 05' 31.59" N
LONGITUDE: 84° 16' 06.30" W
TAX/PIN #: 22 544011140234
ZONING: T6

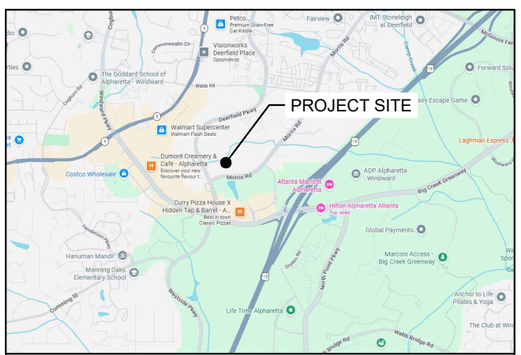
POLICE DEPARTMENT:
13690 HIGHWAY 9, BUILDING B
MILTON, GA 30004
PHONE: (678) 242-2570
ATTN: POLICE ADMINISTRATION

FIRE & RESCUE DEPARTMENT:
2006 HERITAGE WALK
MILTON, GA 30004
PHONE: (678) 242-2541
ATTN: FIRE ADMINISTRATION

BUILDING DEPARTMENT:
2006 HERITAGE WALK
MILTON, GA 30004
PHONE: (678) 242-2547
ATTN: GARY MULLINIX

PLANNING AND ZONING DEPARTMENT:
2006 HERITAGE WALK
MILTON, GA 30004
PHONE: (678) 242-2540
ATTN: ROBYN MACDONALD

PERMIT INFORMATION



VICINITY MAP

JURISDICTION:
CITY OF MILTON, GA

STATE:
GEORGIA

TOWER TYPE:
MONOPINE

TOWER HEIGHT:
115' (120' TO HIGHEST APPURTENANCE)

NUMBER OF CARRIERS:
0 EXISTING, 1 PROPOSED

USE:
PROPOSED TELECOMMUNICATIONS TOWER AND UNMANNED GROUND EQUIPMENT

FLOOD INFO:
SITE IS LOCATED WITHIN FEMA FLOOD MAP AREA 13121C0059F DATED 09/18/13 WITHIN FLOOD ZONE X.

PROJECT SUMMARY

DEVELOPER:
VERIZON WIRELESS
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GA 30022
PHONE: (954) 551-6310
ATTN: MARK BAESCH

PROPERTY OWNER:
CELLCO PARTNERSHIP
P.O. BOX 2549
ADDISON, TX 75001

A/E CONSULTANT:
KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: (470) 299-7052
ATTN: TREVOR NEWTON, P.E. (GA)

PROJECT CONTACTS

SHEET NO.	SHEET TITLE
T1	COVER SHEET
-	SITE SURVEY (SHEET 1 OF 6)
-	SITE SURVEY (SHEET 2 OF 6)
-	SITE SURVEY (SHEET 3 OF 6)
-	SITE SURVEY (SHEET 4 OF 6)
-	SITE SURVEY (SHEET 5 OF 6)
-	SITE SURVEY (SHEET 6 OF 6)
N1	GENERAL NOTES
C0	AERIAL PLAN VIEW
C1	OVERALL SITE PLAN
C2	SITE PLAN
C3	ENCROACHMENT PLAN
C4	EQUIPMENT PAD LAYOUT
C5	EQUIPMENT RACK DETAILS - FRONT
C6	EQUIPMENT RACK DETAILS - REAR
C7	CONCRETE PAD FOUNDATION DETAILS
C8	FENCE, GATE AND COMPOUND DETAILS
C9	GRADING AND EROSION CONTROL PLAN
C10	GROUND AND EROSION CONTROL DETAILS
C11	ACCESS ROAD DETAILS
C12	SITE SIGNAGE DETAILS
C13	SITE SIGNAGE DETAILS
C14	WAVEGUIDE BRIDGE DETAILS
C15	ANTENNA AND TOWER ELEVATION DETAILS
E1	ELECTRICAL NOTES
E2	OVERALL UTILITY ROUTING PLAN
E3	UTILITY ROUTING PLAN
E4	METER RACK DETAILS - FRONT
E4.1	METER RACK DETAILS - REAR
E5	ELECTRICAL SINGLE LINE DIAGRAM
E6	PANEL SCHEDULE
E7	ELECTRICAL DETAILS
E8	GROUNDING NOTES
E9	GROUNDING PLAN
E10	GROUNDING SINGLE LINE DIAGRAM
E11	GROUNDING DETAILS
E12	GROUNDING DETAILS

SHEET INDEX

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

REV: | DATE: | ISSUED FOR: | BY:

7			
6			
5			
4			
3			
2			
1			
0	08/12/26	CONSTRUCTION	TRN
A	07/16/26	PRELIMINARY	TRN

LICENSER:

GEORGIA REGISTERED
No. PE050297 PROFESSIONAL
TREVOR ROBERT NEWTON
ENGINEER

KHA PROJECT NUMBER:
013509546

DRAWN BY: JW | CHECKED BY: TRN

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
T1

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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K:\ATL_Wireless\000_Verizon_Sites\Macro New Build\Verizon_One_DRAN_Relo\CAD\GB\GA-GB.dwg ---- 08/12/26 3:54 PM by: Trevor.Newton

GENERAL NOTES:

1. This Survey is prepared exclusively to show site conditions and/or for use in support of instruments related to Leases and Easements as may be shown hereon. Any property boundary information shown hereon is a composite of information gathered from current or previous Surveys, Plat & Deed Description and/or Assessor's Tax Maps as may be referenced hereon. This Survey is not a Boundary Survey of any Tax Parcels or Deed Tracts, and does not create, combine, or divide any existing properties.
2. Survey shown hereon was performed under the supervision of a state-registered Land Surveyor and conforms to all applicable State Board Requirements.
3. Instruments Used: One or more of: Topcon Total Station, Topcon Hiperlite Plus GPS, Carlson Surveyor Data Collector, DJI UAV.
4. Where shown, improvements (utilities, buildings, trees, fences, etc.) are based on field Survey and/or aerial mapping.
5. Any Underground Utilities shown according to surface markings made by others, found at time of survey. Additional marked utilities outside the area covered by this survey map may be shown in provided CAD Files. Utility Markings may not be comprehensive, and conditions may change after the time of survey: this survey does not relieve design and construction personnel of the responsibility to determine the locations of underground utilities prior to land disturbance activities. See also 2021 ALTA Standards, page 10, "Note to clients...".
6. This Survey is presented in the format required by Clients. Clients are advised that Official Jurisdictions may require the Survey to be presented in another format with additional notes and certifications. In the event other formats, notes or certifications are requested by applicable jurisdictions, it is the responsibility of the Client to request same be prepared by Surveyor. Survey as published is not intended to be suitable for recording as a Subdivision Plat.
7. This survey may have been reduced or enlarged in size due to subsequent reproduction. This should be taken into consideration when obtaining scaled data.
8. Geographic Coordinates, if published, meet FAA Accuracy Code 1A, and are accurate to within ± 20 feet horizontally and to within ± 3 feet vertically, reference: FAA Order 8260.19K, Section 2-11-3 b.(1).
9. Any Flood Zone information presented hereon is according to current FEMA Flood Map information as may be referenced hereon. No Flood Elevation Survey of Certification performed.
10. This survey is not valid without the original signature seal of a State-Licensed Land Surveyor, and is not complete without the total of sheets as specified in Survey Title Blocks.
11. Unless indicated otherwise by reference to Record Instruments, any Lessee's Leases, Premises or Easements shown hereon are NOT YET OF RECORD and may be subject to change pending review and approval by Carrier, applicable jurisdictions and/or other involved parties.
12. Any Survey Markers placed as required by Standards of Practice and/or Client request represent the Leases and/or Easements as requested or designed by Clients at the time of this survey issue and may not reflect changes to site design which have not been communicated to Surveyor in the form of a Survey revision request. Surveyor shall not be liable for any circumstance arising as a result of revisions to Site Design (which may invalidate existing survey markers) occurring after the date of this Survey issue.

SURVEYOR'S CERTIFICATION

To: Verizon Wireless:
This Survey is a SPECIFIC PURPOSE SURVEY and does not subdivide or create any new Parcels, or make changes to real property boundaries. The recording information of the documents, maps, plats or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS OR COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore, the undersigned land surveyor certifies this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board for Professional Engineers and Land Surveyors as set forth in O.C.G.A Section 15-6-67.

GEORGIA REGISTERED No. LS003508 PROFESSIONAL LAND SURVEYOR TRAVIS LAMAR SHIELDS
04/23/26

Travis L. Shields
Georgia RLS No. LS003508
Georgia COA No. LSF001190

PROPOSED TOWER LOCATION DATA

Latitude:	NORTH:	34.092109°	34° 05' 31.59"
Longitude:	WEST:	84.268417°	84° 16' 06.30"
Ground Elev:	1057.2	FEET AMSL	(NAVD88)
Benchmark:	DM7831 GABN CORS ARP		

PARENT TAX PARCEL

CELLCO PARTNERSHIP
TAX PARCEL: 22 544011140234

NORTH ORIENTATION

GEORGIA WEST STATE PLANE COORDINATE SYSTEM
Based on GPS Survey relative to NGS CORS Network, NAD83 (2011)
ELEVATION DATUM: NAVD88, GEOID 12B
DATE OF SURVEY: 04-13-2026

Method: RTK (CORS); Confidence Level: 95%
Positional Accuracy: HZ ± 0.10'
EPOCH 2010.0000
Convergence: -0.05703361°; Combined Scale Factor: 0.99985520

FLOOD DATA

FEMA FLOOD MAP PANEL: 13121C0059F, Effective Date: 09-18-2013
Surveyed Area appears to lie within: ZONE X (Areas of Minimal Flood Hazard) & ZONE X (Areas subject to 0.2% Annual Chance Flood Hazard)

TITLE EXAMINATION:

Not available

ADDITIONAL NOTES

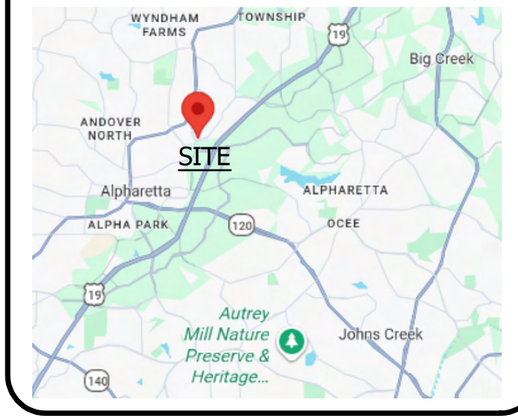
REFERENCE SURVEY: ALTA/NSPS SURVEY BY BOUNDARY ZONE, INC. DATED 02-08-2023. THIS SURVEY IS A COMPOSITE OF CURRENT FIELD SURVEY AND MATERIAL FROM SAID ALTA SURVEY AS FIELD-VERIFIED IN CURRENT FIELD SURVEY.

SURVEY ISSUE DATA

#	DETAILS	DATE	DRAWN	APP
0	Original Survey Issue	04-23-2026	NB	TLS

LOCATION MAP

NOT TO SCALE



SURVEY MAP LEGEND

- IRON ROD FOUND
- LIGHT POLE
- STORM JUNCTION BOX
- CATCH BASIN
- SITE BENCHMARK
- PROPOSED TOWER LOCATION

R/W	RIGHT-OF-WAY
C/L	CENTER LINE
AUF	ACCESS & UTILITY
ESMT	EASEMENT
P.O.C.	POINT OF COMMENCEMENT
P.O.B.	POINT OF BEGINNING
Sq Ft	SQUARE FEET

- PAVEMENT EDGE
- CURB LINE
- CHAINLINK FENCE
- DITCH
- 5' CONTOURS
- 1' CONTOURS
- STM — STORMWATER PIPE
- UGE — MARKED UG ELECTRICAL
- UGT — MARKED UG TELECOM
- WTR — MARKED WATER LINE
- FMS — FORCE MAIN SEWER LINE
- RW — PUBLIC R/W
- TAX PARCEL BOUNDARY
- TIE LINE
- PREMISES
- ACCESS/UTIL EASEMENTS

THE LAND CONSULTANTS LLC
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423·304·6722
GEORGIA COA NO. LSF001190

PREPARED FOR

verizon

VERIZON WIRELESS

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SPECIFIC PURPOSE SURVEY
VERIZON ONE DRAN_RELO

MDG Id: 5000970930
1 Verizon Place, Milton, GA 30004
2nd District, 2nd Section
Fulton County, Georgia

COVER SHEET

DWG#: 26128
ISSUE #: 0
ISSUE DATE: 04-23-2026
SEE SHEET #1

SHEET 1 OF 6

PROPERTY INFORMATION

PARENT TAX PARCEL

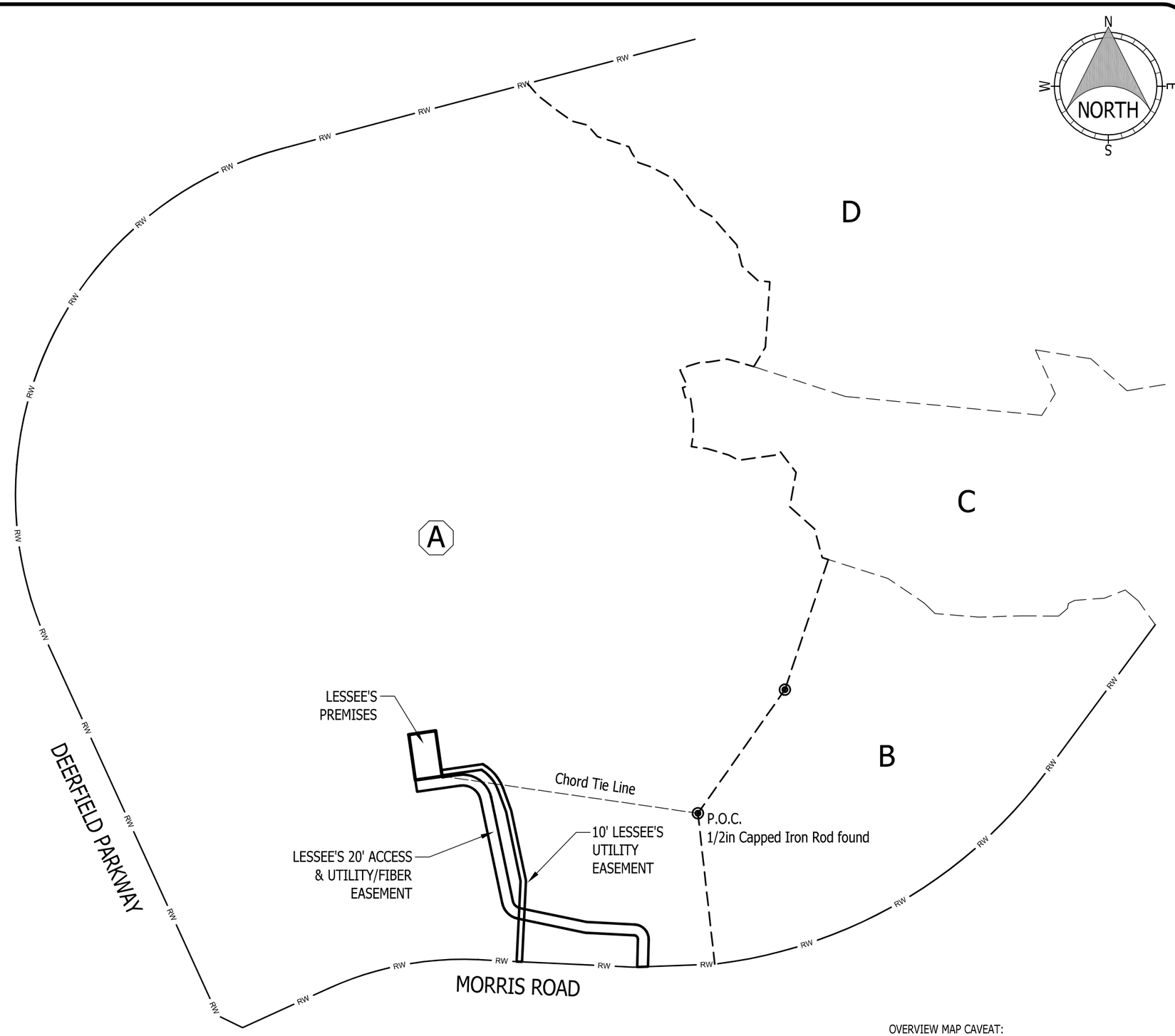
A. CELLCO PARTNERSHIP
TAX PARCEL: 22 544011140234
DEED BOOK 50153, PAGE 46

ADJOINING TAX PARCELS

B. VERIZON WIRELESS
TAX PARCEL: 22 544011150290
DEED NOT LISTED

C. DEERFIELD MASTER ASSOCIATION, INC
TAX PARCEL: 22 544011150282
DEED BOOK 43067, PAGE 694

D. YULIYA NOVIKOVA
TAX PARCEL: 22 544011150712
DEED BOOK 62176, PAGE 500
PLAT BOOK 374, PAGE 134-139



RW — PUBLIC R/W
VESTING LAND
ADJOINING TAX PARCEL
TIE LINE
LESSEE'S PREMISES
LESSEE'S EASEMENT(S)

APPROX SCALE: 1in = 200'

0 200' 400' 600'

OVERVIEW MAP CAVEAT:
OVERVIEW MAP IS NOT A SURVEY BUT A VICINITY / LOCATION MAP INTENDED ONLY TO SHOW SURVEYED PROPERTY IN RELATION TO SURROUNDING AREA. VESTING AND ADJOINING PARCEL BOUNDARIES ARE NOT INCLUDED IN OR CERTIFIED BY THIS SURVEY. BOUNDARY LINES ARE A COMPOSITE OF DEED, PLAT AND/OR TAX MAP INFORMATION
SEE SURVEY MAP FOR ALL MATTERS RELATED TO SITE SURVEY

THE LAND CONSULTANTS LLC
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423·304·6722
GEORGIA COA NO. LSF001190

PREPARED FOR

verizon

VERIZON WIRELESS

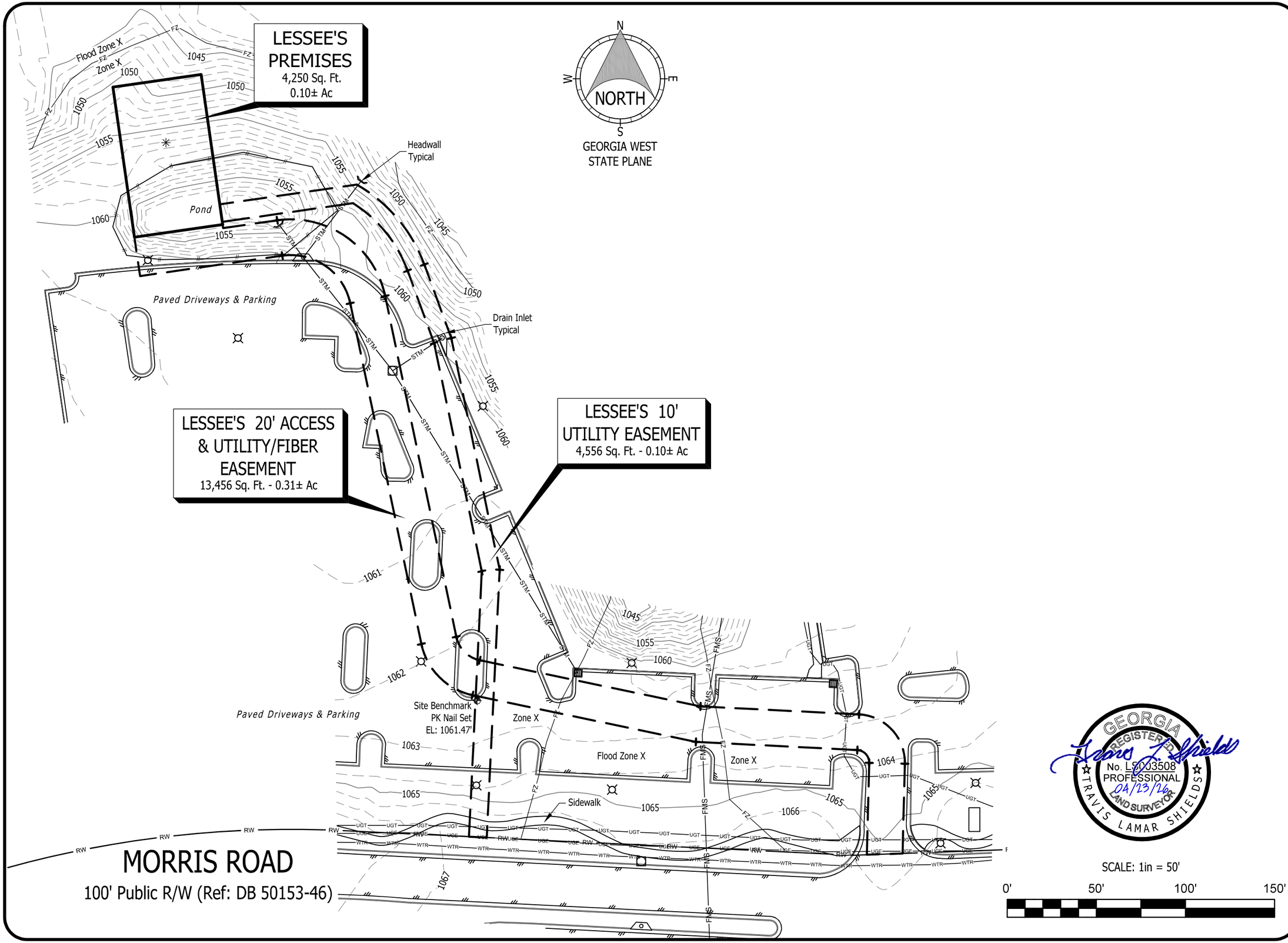
(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SPECIFIC PURPOSE SURVEY
VERIZON ONE DRAN_RELO

MDG Id: 5000970930
1 Verizon Place, Milton, GA 30004
2nd District, 2nd Section
Fulton County, Georgia

OVERVIEW MAP

DWG#: 26128
ISSUE #: 0
ISSUE DATE: 04-23-2026
SEE SHEET #1



GEORGIA
REGISTERED
No. LS003508
PROFESSIONAL
04/23/26
LAND SURVEYOR
TRAVIS LAMAR SHIELDS

THE LAND CONSULTANTS LLC
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423·304·6722
GEORGIA COA NO. LSF001190

PREPARED FOR

verizon

VERIZON WIRELESS

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SPECIFIC PURPOSE SURVEY
VERIZON ONE DRAN_RELO

MDG Id: 50009709300

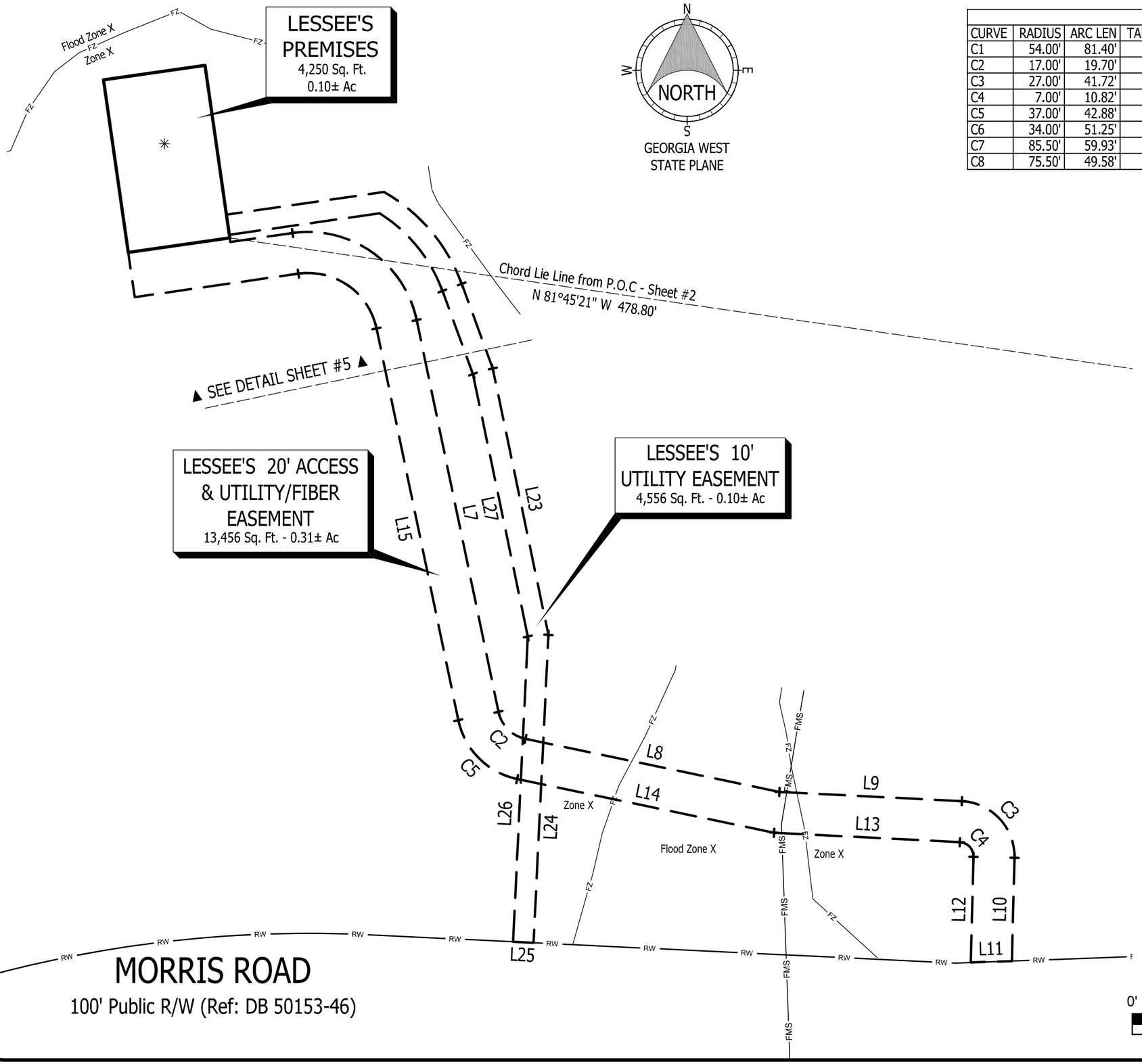
1 Verizon Place, Milton, GA 30004

2nd District, 2nd Section
Fulton County, Georgia

SITE SURVEY

DWG#: 26128
ISSUE #: 0
ISSUE DATE: 04-23-2026
SEE SHEET #1

SHEET 3 OF 6



CURVE DATA TABLE						
CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING	CHORD LEN
C1	54.00'	81.40'	50.68'	86°22'08"	S 54°59'05" E	73.91'
C2	17.00'	19.70'	11.12'	66°23'45"	S 44°59'54" E	18.62'
C3	27.00'	41.72'	26.32'	88°32'03"	S 42°49'30" E	37.69'
C4	7.00'	10.82'	6.82'	88°32'03"	N 42°49'30" W	9.77'
C5	37.00'	42.88'	24.21'	66°23'45"	N 44°59'54" W	40.52'
C6	34.00'	51.25'	31.91'	86°22'08"	N 54°59'05" W	46.54'
C7	85.50'	59.93'	31.25'	40°09'30"	S 40°13'35" E	58.71'
C8	75.50'	49.58'	25.72'	37°37'35"	N 38°57'38" W	48.70'

LINE DATA TABLE		
LINE	BEARING	DISTANCE
L1	S 81°49'51" W	50.00'
L2	N 08°08'42" W	85.00'
L3	N 81°49'51" E	50.00'
L4	S 08°08'42" E	85.00'
L5	S 08°10'09" E	2.00'
L6	N 81°49'51" E	30.64'
L7	S 11°48'01" E	195.20'
L8	S 78°11'46" E	126.50'
L9	S 87°05'31" E	89.10'
L10	S 01°26'32" W	50.32'
L11	S 87°55'58" W	20.04'
L12	N 01°26'32" E	51.54'
L13	N 87°05'31" W	90.66'
L14	N 78°11'46" W	128.05'
L15	N 11°48'01" W	195.20'
L16	S 81°49'51" W	80.61'
L17	N 08°15'46" W	22.00'
L18	N 81°49'51" E	50.00'
L19	N 08°03'52" W	1.50'
L20	N 08°10'09" W	10.00'
L21	N 81°49'51" E	77.64'
L22	S 20°08'50" E	43.93'
L23	S 11°48'01" E	132.72'
L24	S 02°45'29" W	150.33'
L25	N 87°14'31" W	10.00'
L26	N 02°45'29" E	149.05'
L27	N 11°48'01" W	130.71'
L28	N 20°08'50" W	43.20'
L29	S 81°49'51" W	74.09'

GEORGIA
REGISTERED
No. LS003508
PROFESSIONAL
04/23/26
LAND SURVEYOR
TRAVIS LAMAR SHIELDS

SCALE: 1in = 50'

0' 50' 100' 150'

THE LAND CONSULTANTS LLC
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423·304·6722
GEORGIA COA NO. LSF001190

PREPARED FOR

verizon

VERIZON WIRELESS

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SPECIFIC PURPOSE SURVEY
VERIZON ONE DRAN_RELO

MDG Id: 50009709300

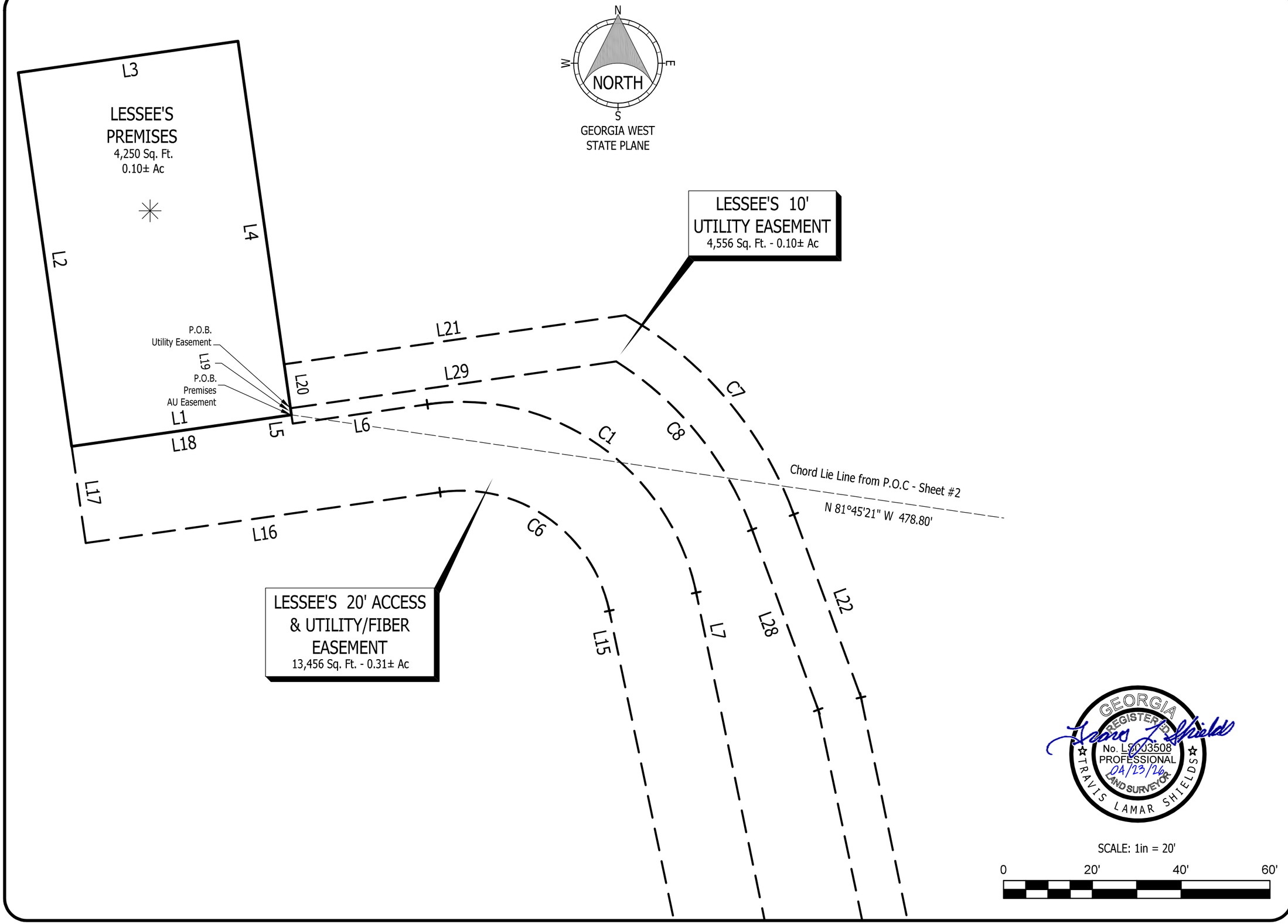
1 Verizon Place, Milton, GA 30004

2nd District, 2nd Section
Fulton County, Georgia

LESSEE'S BOUNDARIES

DWG#: 26128
ISSUE #: 0
ISSUE DATE: 04-23-2026
SEE SHEET #1

SHEET 4 OF 6



THE LAND CONSULTANTS LLC
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423·304·6722
GEORGIA COA NO. LSF001190

PREPARED FOR

verizon

VERIZON WIRELESS

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SPECIFIC PURPOSE SURVEY
VERIZON ONE DRAN_RELO

MDG Id: 5000970930

1 Verizon Place, Milton, GA 30004

2nd District, 2nd Section
Fulton County, Georgia

GEORGIA
REGISTERED
No. LS003508
PROFESSIONAL
04/23/26
LAND SURVEYOR
TRAVIS LAMAR SHIELDS

DETAIL

DWG#: 26128
ISSUE #: 0
ISSUE DATE: 04-23-2026
SEE SHEET #1

SHEET 5 OF 6

LESSEE'S PREMISES

All that tract or parcel of land lying and being in the Second District, Second Section, Fulton County, Georgia, and being a portion of the property of Cellco Partnership, of record in Deed Book 50153, Page 46, Clerk's Office, Fulton County, Georgia, and being more particularly described as follows:

COMMENCE at a one-half-inch Capped Iron Rod found at an Eastern Corner of aforesaid property;
Thence along a Chord Tie Line having a Bearing of N 81°45'21" W, a distance of 478.80 feet to the POINT OF BEGINNING;

Thence S 81°49'51" W, a distance of 50.00 feet;
Thence N 08°08'42" W, a distance of 85.00 feet;
Thence N 81°49'51" E, a distance of 50.00 feet;
Thence S 08°08'42" E, a distance of 85.00 feet to the POINT OF BEGINNING.

Said Premises contains 0.10 Acres (4,250 Square Feet), more or less.

LESSEE'S 10' UTILITY EASEMENT

LESSEE'S 10' UTILITY EASEMENT
All that tract or parcel of land lying and being in the Second District, Second Section, Fulton County, Georgia, and being a portion of the property of Cellco Partnership, of record in Deed Book 50153, Page 46, Clerk's Office, Fulton County, Georgia, and being more particularly described as follows:

COMMENCE at a one-half-inch Capped Iron Rod found at an Eastern Corner of aforesaid property;
Thence along a Chord Tie Line having a Bearing of N 81°45'21" W, a distance of 478.80 feet;
Thence N 08°03'52" W, a distance of 1.50 feet to the POINT OF BEGINNING;

Thence N 08°10'09" W, a distance of 10.00 feet;
Thence N 81°49'51" E, a distance of 77.64 feet;
Thence with a curve to the right with an arc length of 59.93 feet, with a radius of 85.50 feet, with a chord bearing of S 40°13'35" E, with a chord length of 58.71 feet;
Thence S 20°08'50" E, a distance of 43.93 feet;
Thence S 11°48'01" E, a distance of 132.72 feet;
Thence S 02°45'29" W, a distance of 150.33 feet to a point on the Northern Right-of-Way Line of Morris Road;
Thence N 87°14'31" W, along said Right-of-Way Line, a distance of 10.00 feet;
Thence N 02°45'29" E, leaving said Right-of-Way Line, a distance of 149.05 feet;
Thence N 11°48'01" W, a distance of 130.71 feet;
Thence N 20°08'50" W, a distance of 43.20 feet;
Thence with a curve to the left with an arc length of 49.58 feet, with a radius of 75.50 feet, with a chord bearing of N 38°57'38" W, with a chord length of 48.70 feet;
Thence S 81°49'51" W, a distance of 74.09 feet to the POINT OF BEGINNING.

Said Easement contains 0.10 Acres (4,556 Square Feet), more or less.

LESSEE'S 15' ACCESS & UTILITY/FIBER EASEMENT

All that tract or parcel of land lying and being in the Second District, Second Section, Fulton County, Georgia, and being a portion of the property of Cellco Partnership, of record in Deed Book 50153, Page 46, Clerk's Office, Fulton County, Georgia, and being more particularly described as follows:

COMMENCE at a one-half-inch Capped Iron Rod found at an Eastern Corner of aforesaid property;
Thence along a Chord Tie Line having a Bearing of N 81°45'21" W, a distance of 478.80 feet to the POINT OF BEGINNING;

Thence S 08°10'09" E, a distance of 2.00 feet;
Thence N 81°49'51" E, a distance of 30.64 feet;
Thence with a curve to the right with an arc length of 81.40 feet, with a radius of 54.00 feet, with a chord bearing of S 54°59'05" E, with a chord length of 73.91 feet;
Thence S 11°48'01" E, a distance of 195.20 feet;
Thence with a curve to the left with an arc length of 19.70 feet, with a radius of 17.00 feet, with a chord bearing of S 44°59'54" E, with a chord length of 18.62 feet;
Thence S 78°11'46" E, a distance of 126.50 feet;
Thence S 87°05'31" E, a distance of 89.10 feet;
Thence with a curve to the right with an arc length of 41.72 feet, with a radius of 27.00 feet, with a chord bearing of S 42°49'30" E, with a chord length of 37.69 feet;
Thence S 01°26'32" W, a distance of 50.32 feet to a point on the Northern Right-of-Way Line of Morris Road;
Thence S 87°55'58" W, along said Right-of-Way Line, a distance of 20.04 feet;
Thence N 01°26'32" E, leaving said Right-of-Way Line, a distance of 51.54 feet;
Thence with a curve to the left with an arc length of 10.82 feet, with a radius of 7.00 feet, with a chord bearing of N 42°49'30" W, with a chord length of 9.77 feet;
Thence N 87°05'31" W, a distance of 90.66 feet;
Thence N 78°11'46" W, a distance of 128.05 feet;
Thence with a curve to the right with an arc length of 42.88 feet, with a radius of 37.00 feet, with a chord bearing of N 44°59'54" W, with a chord length of 40.52 feet;
Thence N 11°48'01" W, a distance of 195.20 feet;
Thence with a curve to the left with an arc length of 51.25 feet, with a radius of 34.00 feet, with a chord bearing of N 54°59'05" W, with a chord length of 46.54 feet;
Thence S 81°49'51" W, a distance of 80.61 feet;
Thence N 08°15'46" W, a distance of 22.00 feet;
Thence N 81°49'51" E, a distance of 50.00 feet to the POINT OF BEGINNING.

Said Easement contains 0.31 Acres (13,456 Square Feet), more or less.

GEORGIA
REGISTERED
No. LS003508
PROFESSIONAL
04/23/26
LAND SURVEYOR
TRAVIS LAMAR SHIELDS

THE LAND CONSULTANTS LLC
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423·304·6722
GEORGIA COA No. LSF001190

PREPARED FOR

verizon

VERIZON WIRELESS

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SPECIFIC PURPOSE SURVEY
VERIZON ONE DRAN_RELO

MDG Id: 5000970930
1 Verizon Place, Milton, GA 30004
2nd District, 2nd Section
Fulton County, Georgia

DESCRIPTIONS

DWG#: 26128
ISSUE #: 0
ISSUE DATE: 04-23-2026
SEE SHEET #1

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 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 "GEORGIA 811" 48 HOURS IN ADVANCE OF PERFORMING ANY WORK BY CALLING THE TOLL FREE NUMBER (800) 282-7411 (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 C11.

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 MANAGER.

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 FIBERS FOR CONCRETE SHALL BE FIBERMESH 650, 100 PERCENT VIRGIN POLYPROPYLENE FIBRILLATED FIBERS, e3 PATENTED TECHNOLOGY PATENTED TECHNOLOGY, CONTAINING NO REPROCESSED OLEFIN MATERIALS. THE FIBERS SHALL CONFORM TO ASTM C1116 TYPE III AND MANUFACTURED SPECIFICALLY FOR THE SECONDARY REINFORCEMENT OF CONCRETE.

2.08 THE FIBERS SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED MANUFACTURING FACILITY. UNLESS OTHERWISE STATED, FIBERMESH 650 MACRO-SYNTHETIC FIBERS SHALL BE ADDED TO THE CONCRETE AT THE BATCHING PLANT AT THE RECOMMENDED APPLICATION RATE OF 3 LBS/YD^3 AND MIXED FOR A SUFFICIENT TIME (MINIMUM 5 MINUTES AT FULL MIXING SPEED) TO ENSURE UNIFORM DISTRIBUTION OF THE FIBERS THROUGHOUT THE CONCRETE. FIBROUS CONCRETE REINFORCEMENT SHALL BE MANUFACTURED BY FIBERMESH, 4019 INDUSTRY DRIVE, CHATTANOOGA, TN 37416 USA, TEL: 800 621-1273, WEBSITE: WWW.FIBERMESH.COM

2.09 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.

2.10 CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH ¾" x 45° CHAMFER, UNLESS OTHERWISE NOTED.

2.11 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.

2.12 TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02' OF ELEVATION REQUIRED.

2.13 TOP OF FOUNDATION FINISH TO BE LEVEL ±⅛" IN 10'.

2.14 TOP OF FOUNDATION TO HAVE MEDIUM BROOM FINISH.

2.15 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.

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

REV: | DATE: | ISSUED FOR: | BY:

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0	08/12/26	CONSTRUCTION	TRN
A	07/16/26	PRELIMINARY	TRN

LICENSER:

GEORGIA REGISTERED
No. PE050297
PROFESSIONAL
ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY: JW | CHECKED BY: TRN

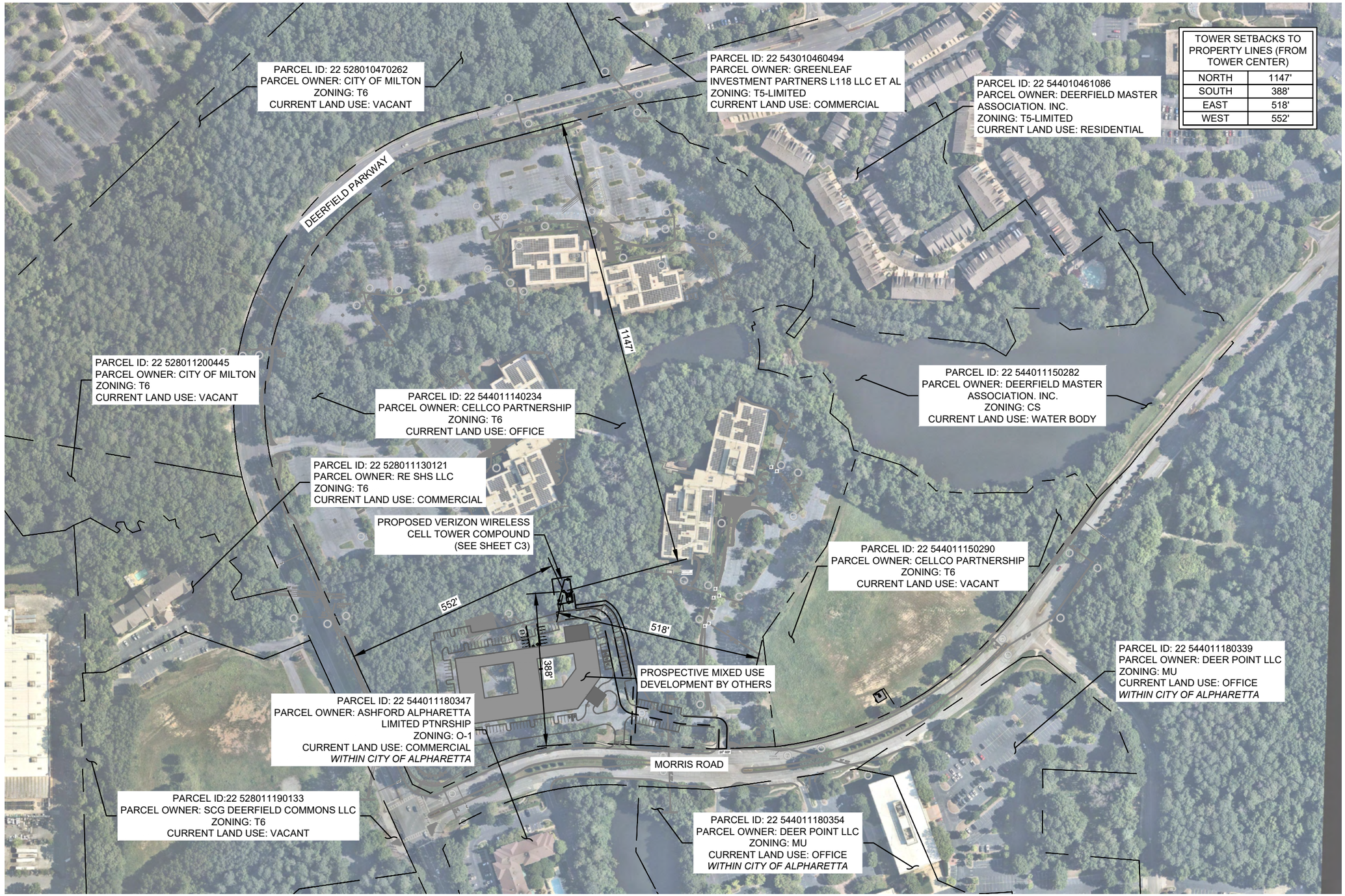
SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
N1

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NOTE:
1. INFORMATION SHOWN ABOVE WAS REPRODUCED FROM FULTON COUNTY GIS APPLICATIONS, A SURVEY PRODUCED BY BOUNDARY ZONE, INC. DATED 02/08/23, A SURVEY PRODUCED BY THE LAND CONSULTANTS, LLC. DATED 04/23/26 AND NEARMAP. IT IS PROVIDED HERE FOR ILLUSTRATIVE PURPOSES ONLY.

1 / C0 AERIAL PLAN VIEW

SCALE: 1" = 250'

NORTH

0 125 250 500

GRAPHIC SCALE: 1" = 250'

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verizon

10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

REV: | DATE: | ISSUED FOR: | BY:

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0	08/12/26	CONSTRUCTION	TRN
A	07/16/26	PRELIMINARY	TRN

LICENSER:

GEORGIA REGISTERED
No. PE050297
PROFESSIONAL
ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY:	CHECKED BY:
JW	TRN

SHEET TITLE:
AERIAL PLAN VIEW

SHEET NUMBER:
C0

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1/C1 OVERALL SITE PLAN

SCALE: 1" = 60'

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verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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LICENSER:

GEORGIA REGISTERED
No. PE050297
PROFESSIONAL ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

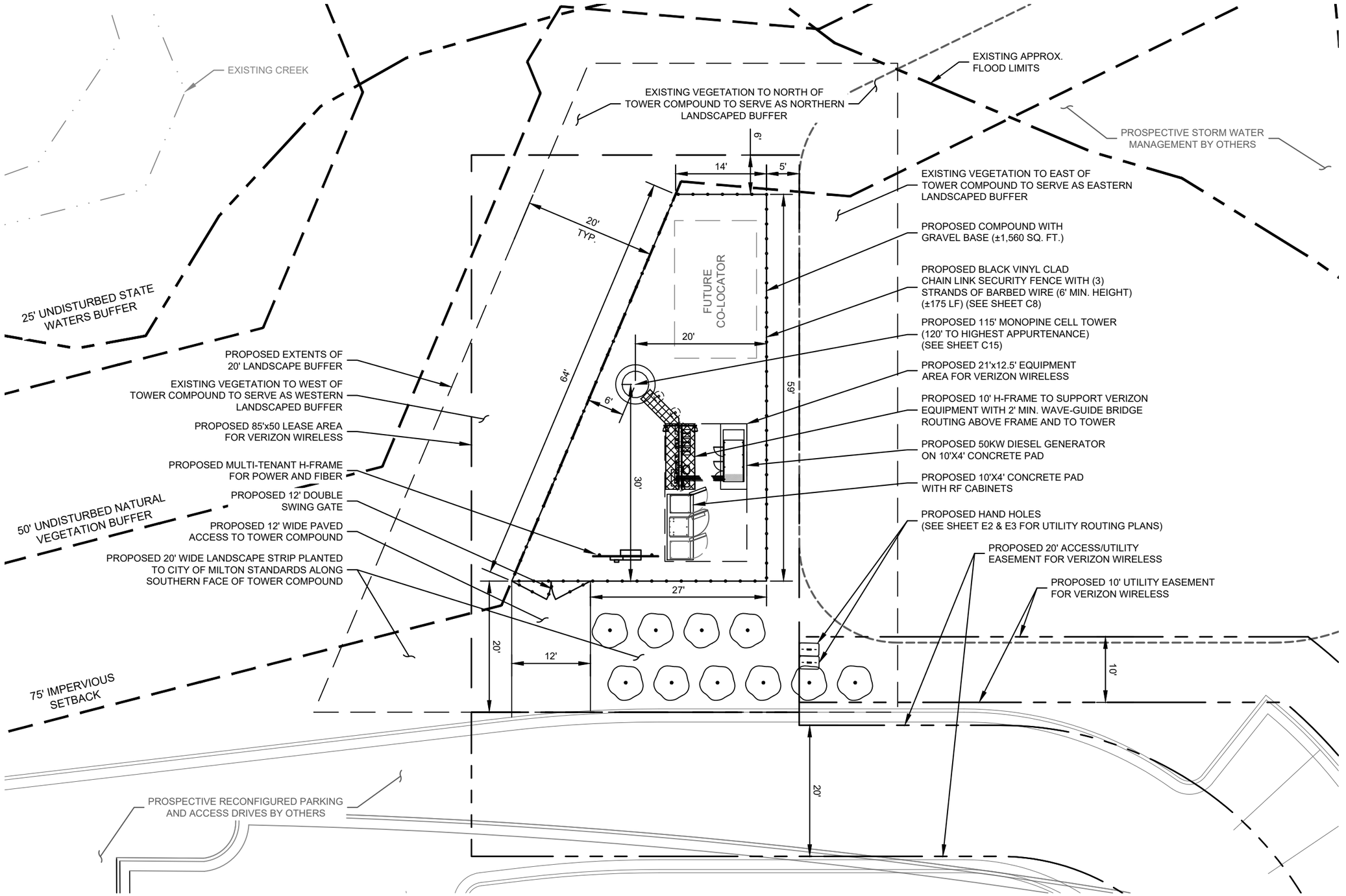
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SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C1

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1 / C2 SITE PLAN

SCALE: 1" = 15'

NOTE:
1. INFORMATION SHOWN ABOVE WAS REPRODUCED FROM FULTON COUNTY GIS APPLICATIONS, A SURVEY PRODUCED BY BOUNDARY ZONE, INC. DATED 02/08/23, A SURVEY PRODUCED BY THE LAND CONSULTANTS, LLC. DATED 04/23/26 AND NEARMAP. IT IS PROVIDED HERE FOR ILLUSTRATIVE PURPOSES ONLY.

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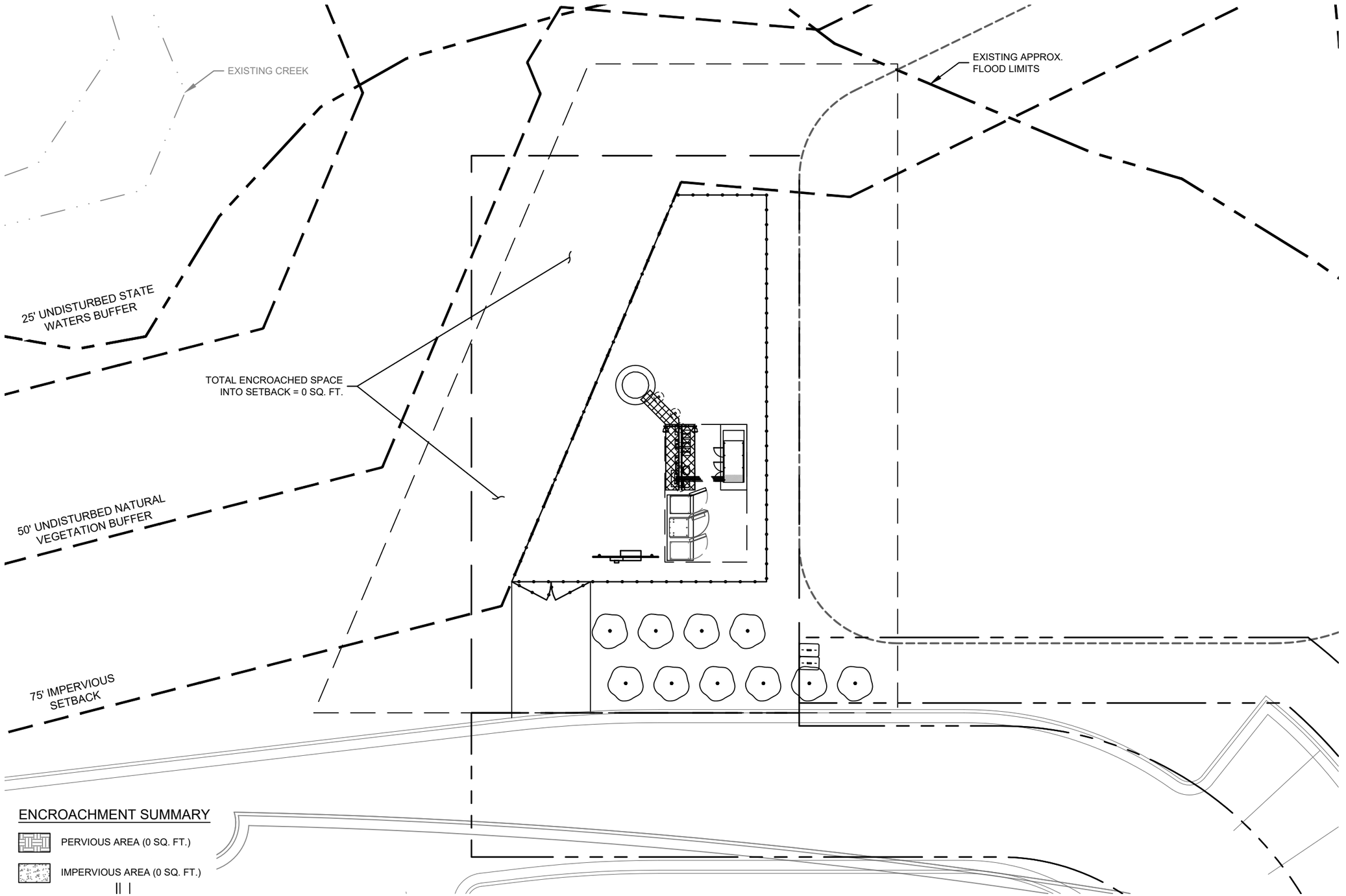
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ENCROACHMENT SUMMARY

PERVIOUS AREA (0 SQ. FT.)

IMPERVIOUS AREA (0 SQ. FT.)

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1 / C3 ENCROACHMENT PLAN

SCALE: 1" = 15'

NORTH

0 7.5 15 30

GRAPHIC SCALE: 1" = 15'

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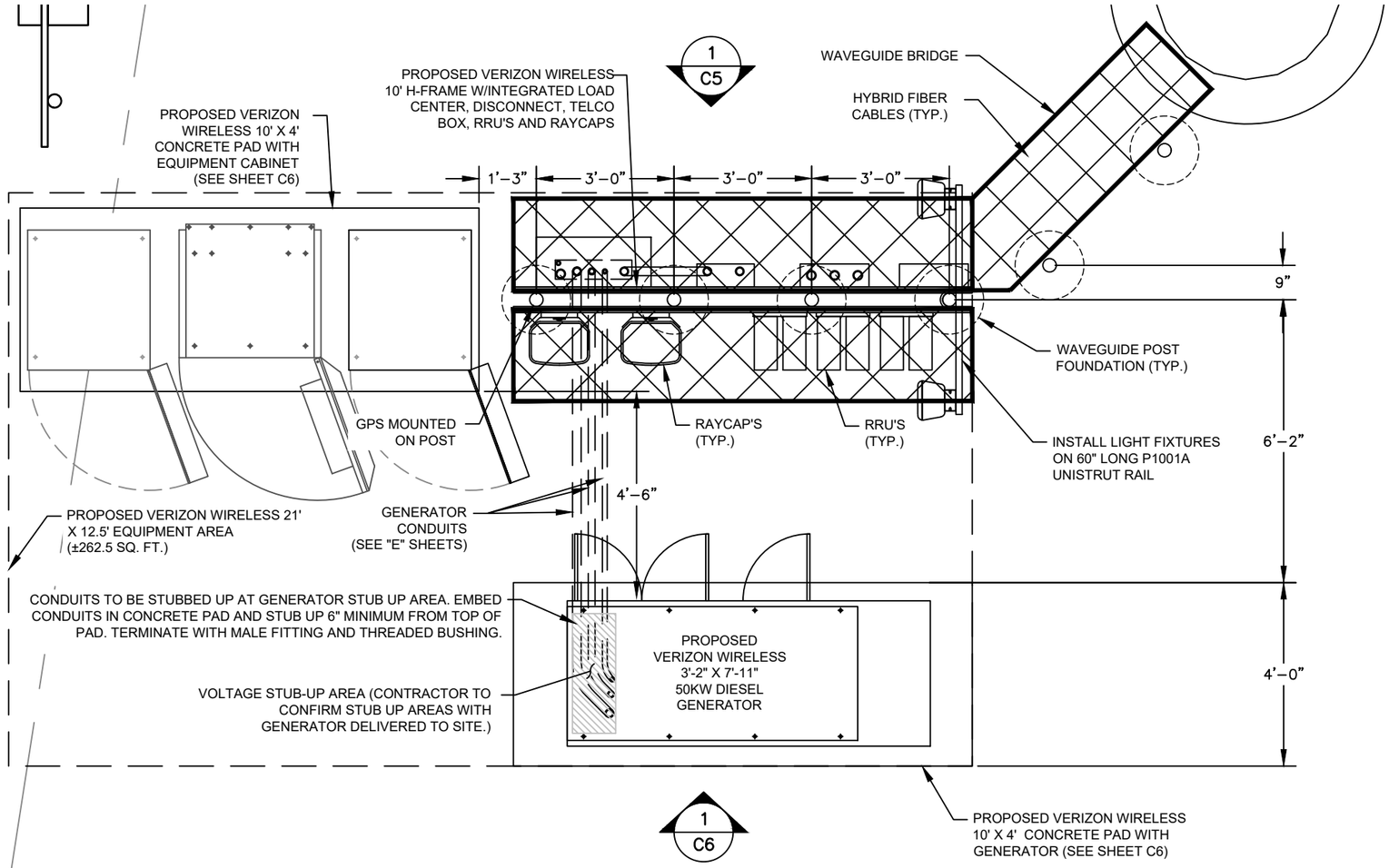
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1/C4 EQUIPMENT PAD LAYOUT

SCALE: 1" = 3'

EQUIPMENT PAD/ROUTING NOTES:

1. REFER TO THE SITE PLAN FOR EQUIPMENT PAD LOCATION AND ORIENTATION.
2. RUN 2" FLEX TELCO CONDUIT FROM BOTTOM OF TELCO BOX TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
3. RUN 2" FLEX POWER CONDUIT AND 1" FLEX ALARM CONDUIT FROM BOTTOM OF ILC TO SIDE OF RF CABINET WITH CHASE NIPPLES THROUGH FACTORY KNOCKOUTS.
4. RUN 2" FLEX FIBER CONDUIT FROM BOTTOM OF OVP TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
5. RUN (1) 1½" FLEX POWER CONDUIT FOR EVERY (6) RRU CIRCUITS FROM BOTTOM OF OVP TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
6. SUPPORT FLEX CONDUIT ON HORIZONTAL H-FRAME RAILS OR ON VERTICAL SITE STRUT SNT10 RAILS ADDED TO H-FRAME FOR CONDUIT/CABLE MANAGEMENT.
7. RUN HYBRID CABLE FOR TOWER MOUNTED RRU'S OVERHEAD ON TRAPEZE SUSPENDED FROM WAVE GUIDE BRIDGE. SWEEP DOWN ONTO H-FRAME RAILS, THEN LOOP UNDER OVP AND CONNECT TO BOTTOM OF OVP. ATTACH GROUND KITS TO HYBRID CABLE BEFORE LOOPING UNDER OVP, AND BOND TO TDSGA GROUND BAR AT BASE OF H-FRAME.
8. RUN COAX CABLE FOR GROUND MOUNTED RRU'S (IF USED) OVERHEAD ON TRAPEZE SUSPENDED FROM WAVE GUIDE BRIDGE. TERMINATE COAX ON ICE BRIDGE AND TRANSITION TO JUMPERS JUST BEFORE REACHING H-FRAME. ATTACH GROUND KITS TO COAX CABLE ON TOWER SIDE OF LAST ICE BRIDGE POST AND BOND TO TDSGA GROUND BAR NEAR TOP OF POST.
9. GPS ANTENNA TO BE MOUNTED TO STANDARD HEIGHT POST WITH EXTENDED MOUNTING PIPE, USING COMMSCOPE GPS-U MOUNTING KIT. MOUNT AS NEAR AS AS PRACTICAL TO RBA84 CABINET.
10. BOLT CABINETS AND GENERATOR TO SLAB USING FASTENERS SPECIFIED BY EQUIPMENT MANUFACTURER IN FACTORY PROVIDED MOUNTING HOLES.

NORTH

0 1.5 3 6

GRAPHIC SCALE: 1" = 3'

verizon

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ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
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SHEET TITLE:
EQUIPMENT PAD LAYOUT

SHEET NUMBER:
C4

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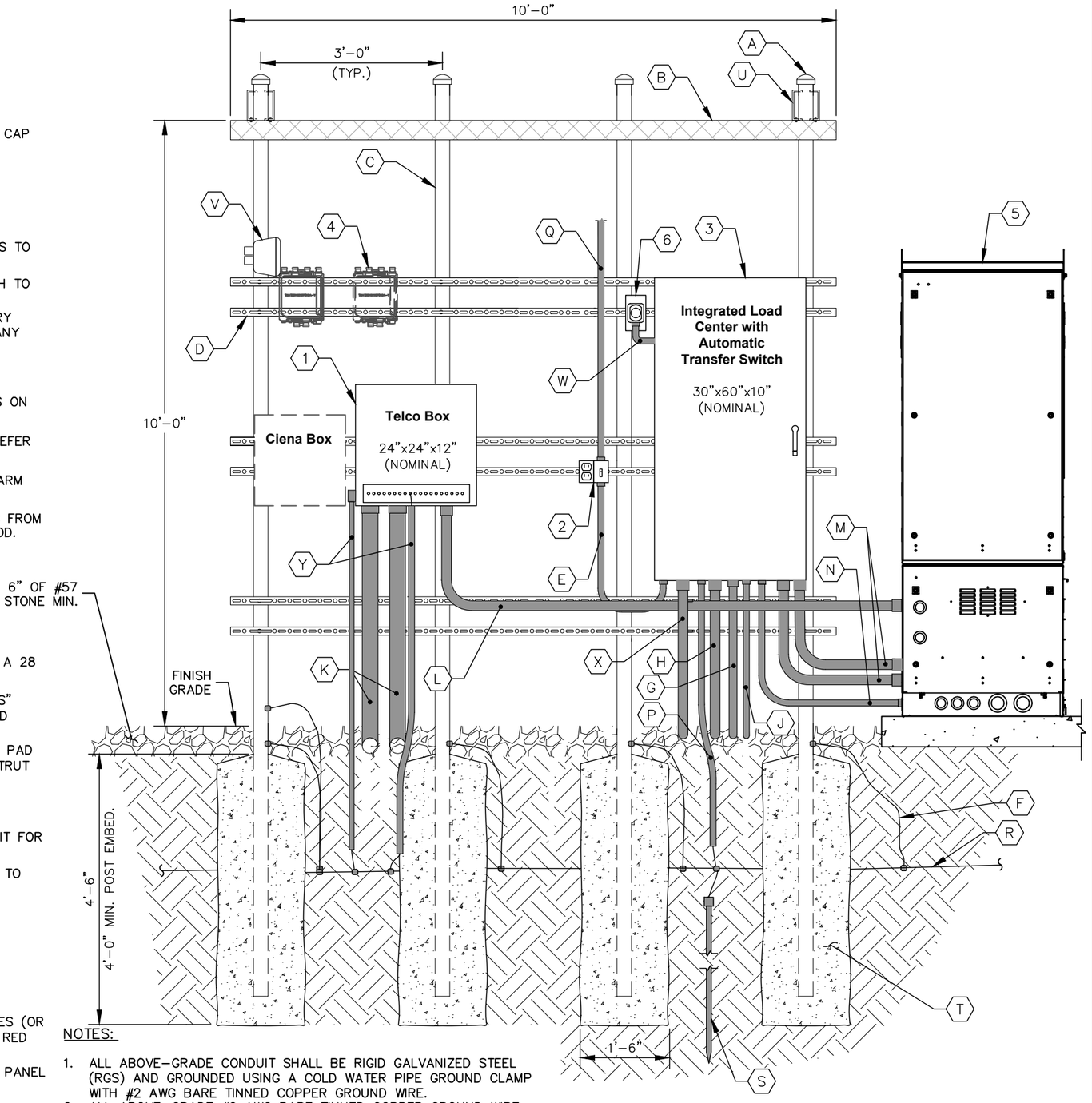
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KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- (A) GALVANIZED RIGID STEEL CAP, TYPICAL.
- (B) ICE BRIDGE, SEE CIVIL SHEETS FOR ADDITIONAL DETAILS.
- (C) 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- (D) 1⅝" X 1⅝" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- (E) 1" RGS CONDUIT FOR ROUTING POWER CONDUCTORS TO LIGHTS/DUPLEX OUTLET.
- (F) ONE (1) #2 AWG BARE SOLID TINNED COPPER BONDING CONDUCTOR (BC) FROM H-FRAME VERTICAL PIPE TO GROUND RING, EXOTHERMIC WELD BOTH ENDS.
- (G) 1" PVC CONDUIT FOR ROUTING GENERATOR CONTROL AND ALARM SIGNAL CABLES TO THE GENERATOR. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.
- (H) 2" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO THE GENERATOR. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.
- (J) 1" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO THE GENERATOR BATTERY CHARGER AND THE GENERATOR BLOCK HEATER. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.
- (K) (1) 2" PVC CONDUIT FOR LIT FIBER AND (1) 2" PVC CONDUIT FOR DARK FIBER. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.
- (L) 2" RGS CONDUIT FOR TELCO CABLES TO RF CABINET. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- (M) TWO (2) 2" RGS CONDUIT FOR ROUTING POWER CONDUCTORS TO RF CABINET. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- (N) 1" RGS CONDUIT FROM INTEGRATED LOAD CENTER (ILC) TO RF CABINET FOR ALARM SIGNAL CABLE. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- (P) ¾" PVC CONDUIT WITH ONE (1) – #2 AWG BARE TINNED COPPER GROUND LEAD FROM GROUNDING LUG IN ILC TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.
- (Q) 1" RGS CONDUIT FOR ROUTING POWER CONDUCTORS TO AREA LIGHTS.
- (R) GROUND RING (SEE "E" SHEETS).
- (S) GROUND ROD, EXOTHERMIC WELD TO GROUND RING (SEE "E" SHEETS).
- (T) CONCRETE FOUNDATION FOR H-FRAME VERTICAL PIPE. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AND INCLUDE FIBERMESH 650.
- (U) WB-K210-B15 HORSEHEAD SUPPORT BRACKET (SEE "WAVEGUIDE BRIDGE DETAILS" SHEET). THRU BOLTS REQUIRED FOR ATTACHMENT IN LIEU OF FACTORY PROVIDED U-BOLTS.
- (V) INSTALL LIGHT FIXTURES ON 60" LONG P1001A UNISTRUT RAIL (SEE "EQUIPMENT PAD LAYOUT" SHEET). ATTACH P1001A TO H-FRAME POST USING TWO (2) UB3 UNISTRUT CLAMPS. LIGHTS TO BE INSTALLED 7'-6" ABOVE GRADE.
- (W) 1" RGS CONDUIT FOR ROUTING POWER CONDUCTORS FROM THE ILC TO THE EMERGENCY GENERATOR STOP SWITCH.
- (X) 2" PVC CONDUIT FOR ROUTING FEEDERS TO THE METER. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.
- (Y) ½" PVC CONDUIT WITH ONE (1) – #2 AWG BARE TINNED COPPER GROUND LEAD TO EQUIPMENT GROUND RING. CAD-WELD. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.

KEY NOTES - ELECTRICAL EQUIPMENT

- (1) NEMA 3R ENCLOSURE TELCO BOX WITH HINGED FRONT PANEL, PVC, (24" X 24" X 12" NOMINAL).
- (2) 20 AMP GFCI DUPLEX RECEPTACLE AND TOGGLE SWITCH, ENERLITES HET06 SERIES (OR APPROVED EQUIVALENT) IN LOCKABLE NEMA 3R ENCLOSURE, 2 GANG BOX WITH RED DOT 2CKPM-W COVER.
- (3) 200 AMP, 120/240 VOLT, SE RATED INTEGRATED LOAD CENTER WITH 42 SPACE PANEL AND AUTOMATIC TRANSFER SWITCH (30" X 60" X 10" NOMINAL).
- (4) DIPLEXERS "AS NEEDED".
- (5) VERIZON RF CABINET-REAR VIEW.
- (6) EMERGENCY SHUTOFF SWITCH FOR GENERATOR MOUNTED ON 4' X 7' GALVANIZED J-BOX COVER PLATE.



NOTES:

1. ALL ABOVE-GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) AND GROUNDED USING A COLD WATER PIPE GROUND CLAMP WITH #2 AWG BARE TINNED COPPER GROUND WIRE.
2. ALL ABOVE-GRADE #2 AWG BARE TINNED COPPER GROUND WIRE SHALL BE ENCLOSED IN A MINIMUM 1/2" EMT CONDUIT AND CRIMPED EVERY 4" TO 6".
3. FOR CLARITY PURPOSES, THE FRONT ELEVATION OF THE "H" FRAME ONLY SHOWS EQUIPMENT AND CONDUIT ASSOCIATED WITH THE FRONT SIDE. SEE REAR SHEET FOR DETAILS ASSOCIATED WITH EQUIPMENT AND CONDUIT MOUNTED ON THE REAR SIDE OF THE "H" FRAME.

1 / C5 EQUIPMENT RACK DETAILS - FRONT

NOT TO SCALE

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:
SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:
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LICENSER:

GEORGIA REGISTERED No. PE050297 PROFESSIONAL ENGINEER TREVOR ROBERT NEWTON

KHA PROJECT NUMBER: 013509546

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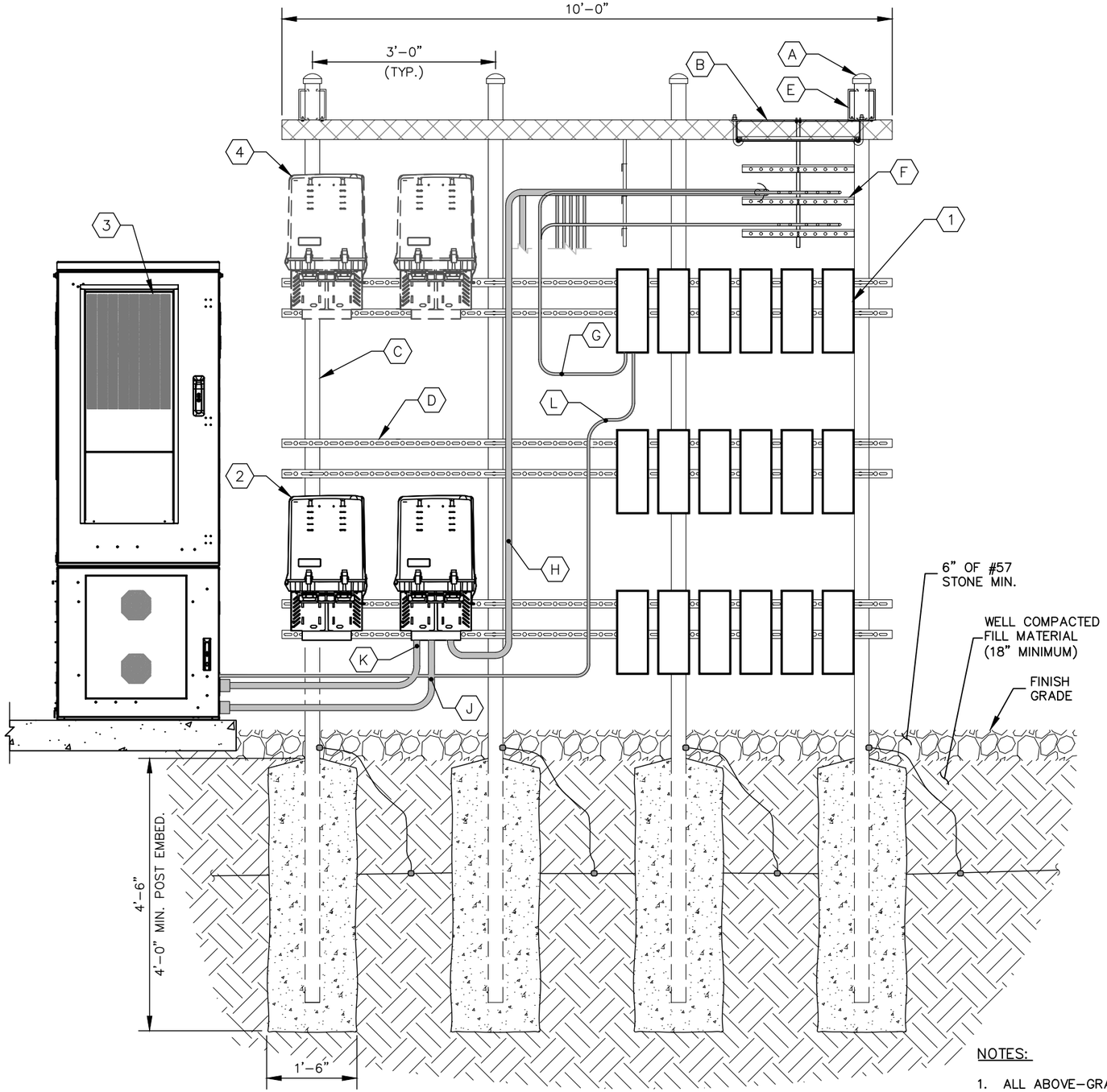
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1 / C6 EQUIPMENT RACK DETAILS - REAR

NOT TO SCALE

KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- (A) GALVANIZED RIGID STEEL CAP, TYPICAL.
- (B) ICE BRIDGE, SEE CIVIL SHEETS FOR ADDITIONAL DETAILS.
- (C) 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- (D) 1⅝" X 1⅝" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- (E) WB-K210-B15 HORSEHEAD SUPPORT BRACKET (SEE "WAVEGUIDE BRIDGE DETAILS" SHEET). THRU BOLTS REQUIRED FOR ATTACHMENT IN LIEU OF FACTORY PROVIDED U-BOLTS.
- (F) ICE BRIDGE RUNNING TOWARDS TOWER (SEE "EQUIPMENT PAD LAYOUT" SHEET).
- (G) COAX JUMPER CABLES INTO BOTTOM OF RRU'S, TYPICAL.
- (H) HYBRID CABLES RUNNING INTO BOTTOM OF RAYCAPS, TYPICAL (SEE NOTE 7 ON "EQUIPMENT PAD LAYOUT" SHEET).
- (J) 1½" POWER RGS CONDUIT RUNNING FROM BOTTOM OF RAYCAPS TO CABINET, TYPICAL (SEE "EQUIPMENT PAD LAYOUT" SHEET).
- (K) 2" FIBER RGS CONDUIT RUNNING FROM BOTTOM OF RAYCAPS TO CABINET, TYPICAL (SEE "EQUIPMENT PAD LAYOUT" SHEET).
- (L) FIBER/POWER JUMPER TO RRU (TYP. FOR EACH RRU).

KEY NOTES - ELECTRICAL EQUIPMENT

- (1) VERIZON RF RRU'S (MODEL, QUANTITY OF, AND CONFIGURATION DETERMINED BY RF DESIGN).
- (2) VERIZON RAYCAPS (MODEL, QUANTITY OF, AND CONFIGURATION DETERMINED BY RF DESIGN).
- (3) VERIZON RF CABINET-FRONT VIEW.
- (4) FUTURE VERIZON RAYCAPS.

NOTES:

1. ALL ABOVE-GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) AND GROUNDED USING A COLD WATER PIPE GROUND CLAMP WITH #2 AWG BARE TINNED COPPER GROUND WIRE.
2. ALL ABOVE-GRADE #2 AWG BARE TINNED COPPER GROUND WIRE SHALL BE ENCLOSED IN A MINIMUM 1/2" EMT CONDUIT AND CRIMPED EVERY 4" TO 6".
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KHA PROJECT NUMBER:
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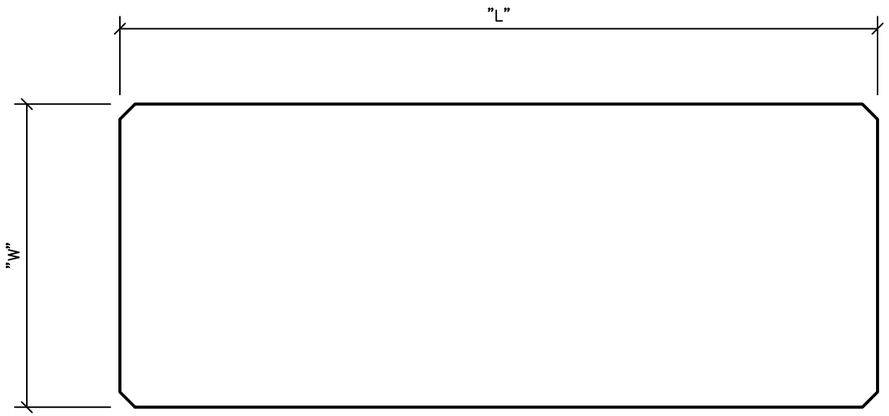
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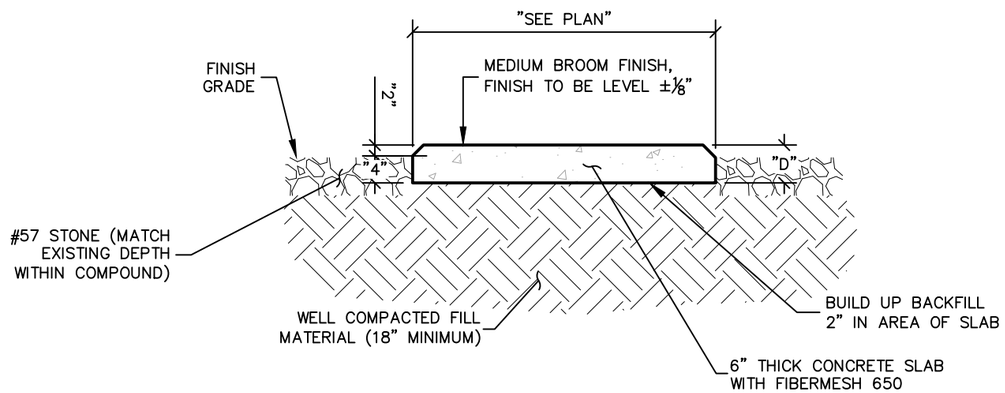
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CONCRETE PAD SCHEDULE				
PAD TYPE	"L"	"W"	"D"	REINFORCEMENT
EQUIPMENT PAD	10'–0"	4'–0"	6"	SEE DETAIL 2/C6
GENERATOR PAD	10'–0"	4'–0"	6"	SEE DETAIL 2/C6 AND NOTE 1 THIS SHEET



1 / C7 CONCRETE PAD PLAN

NOT TO SCALE



2 / C7 CONCRETE PAD FOUNDATION SECTION

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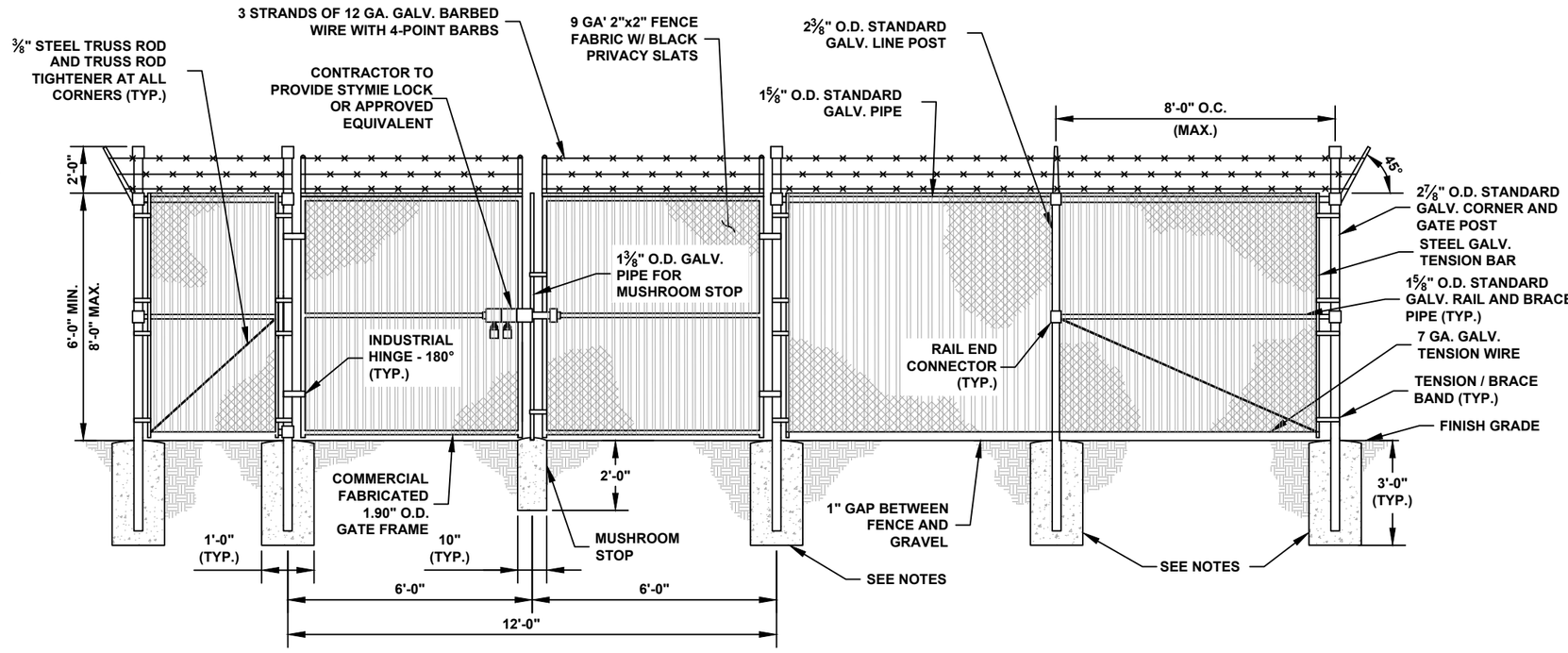
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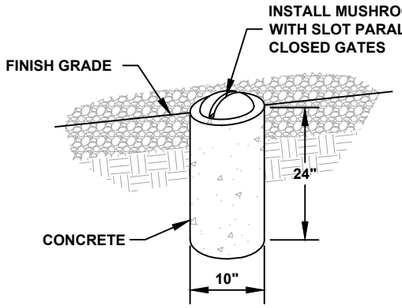
FENCE NOTES:

1. USE 3,000-PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
2. WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON-SHRINK GROUT.
3. ALL POSTS MUST BE PLUMB AND ALIGNED WITH ONE ANOTHER IN BOTH HORIZONTAL AND VERTICAL PLANES.
4. CORNERS AND GATEPOSTS FOR CHAIN LINK FENCES SHALL EXTEND ABOVE THE TOP STRAND OF BARBED WIRE TO PROVIDE TENSIONING FOR THE BARBED WIRE.
5. PROVIDE MIDRAILS AND BRACING AT ALL CORNER POSTS WHERE THE FENCE CHANGES DIRECTION BY MORE THAN 30 DEGREES.
6. THE GRADE OF THE SITE AND INSTALLATION OF THE FENCE SHALL PROVIDE FOR NO MORE THAN A 1" GAP BETWEEN THE BOTTOM OF THE FENCE MATERIAL AND FINISH GRADE.
7. CONTRACTOR SHALL PROVIDE HOLD OPEN DEVICES FOR ALL GATES AT THE SPECIFIED OPEN POSITIONS, DRIVEN PIPE TYPE RECEIVERS ARE NOT AUTHORIZED.
8. CONTRACTOR SHALL ALSO PROVIDE A MUSHROOM TYPE RECEIVER AT THE CLOSE POSITION.



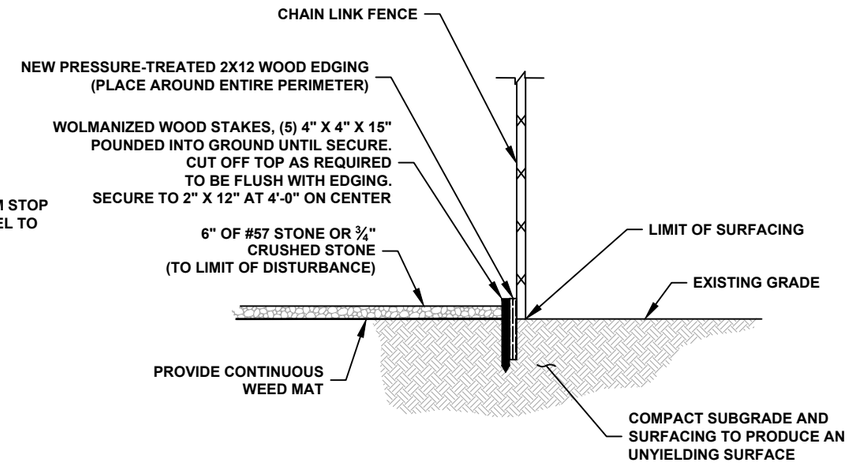
1 / C8 CHAIN LINK FENCE AND GATE ELEVATION

N.T.S.



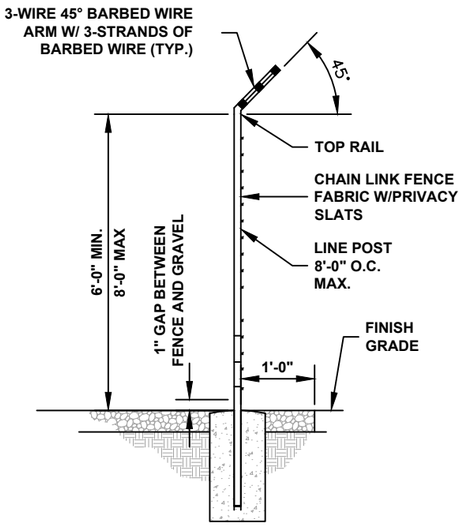
2 / C8 MUSHROOM STOP

N.T.S.



3 / C8 SITE COMPOUND SURFACE DETAIL

N.T.S.



4 / C8 SECTION AT FENCE

N.T.S.

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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LICENSER:

GEORGIA REGISTERED No. PE050297 PROFESSIONAL ENGINEER TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY:	CHECKED BY:
JW	TRN

SHEET TITLE:
FENCE, GATE AND COMPOUND DETAILS

SHEET NUMBER:
C8

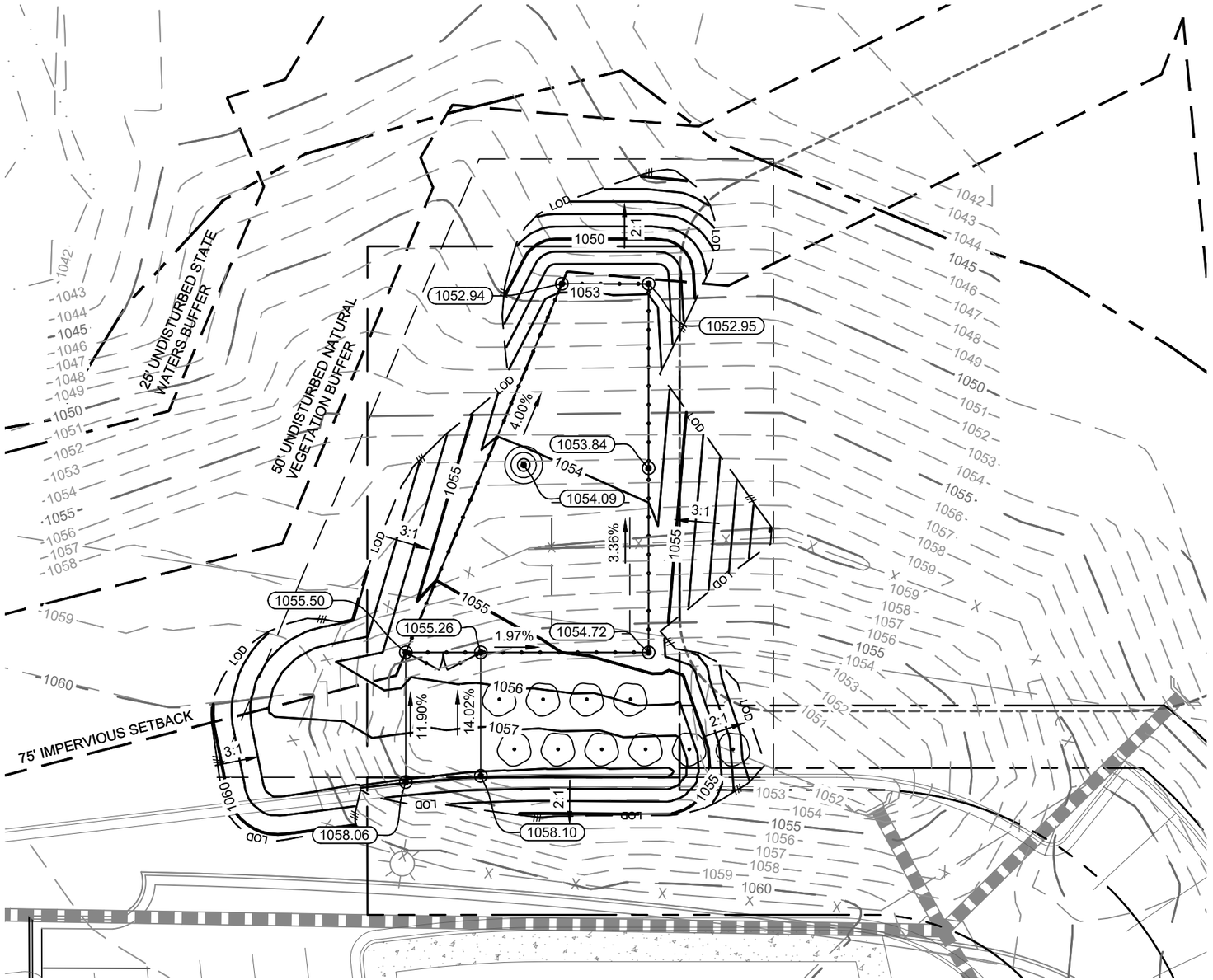
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NOTE:
CURRENT DESIGN ANTICIPATES APPROXIMATELY ±5,368 SQ. FT. (0.13 ACRES) OF CLEARING AND GRADING FOR THE PROPOSED PROJECT. IF ADDITIONAL CLEARING IS REQUIRED BEYOND WHAT IS SHOWN IN THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR PROJECT MANAGER.

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.
2. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
3. CONTRACTOR SHALL BLEND EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
4. 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.
5. FILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS.
6. UNDISTURBED AREAS WITHIN 30' INGRESS/EGRESS EASEMENT NOT NEEDED FOR UTILITY ROUTING TO BE LEFT UNDISTURBED.
7. GROUND WATER SHOULD BE REASONABLY EXPECTED. ANY DE-WATERING OR MOISTURE CONDITIONING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE INCLUDED IN THE CONTRACT PRICE.
8. SEED ALL DISTURBED AREAS NOT TOPPED WITH GRAVEL PER SEEDING SCHEDULE ON DETAIL ON SHEET C9.
9. MAXIMUM CUT SLOPE = 2H:1V UNLESS OTHERWISE NOTED.
10. MAXIMUM FILL SLOPE = 3H:1V UNLESS OTHERWISE NOTED.



LEGEND

EXISTING CONTOURS

PROPOSED CONTOURS

LOD/SILT FENCE — LOD —

TPF — TPF — TPF —

EXISTING SPOT ELEVATION x XXX

PROPOSED SPOT ELEVATION ● XXX

CUT/ FILL TABLE	
CUT VOLUME:	234.44 CU. YD.
FILL VOLUME:	265.58 CU. YD.
NET VOLUME:	31.13 CU. YD. (FILL)

1 / C9 GRADING & EROSION CONTROL PLAN

SCALE: 1" = 20'

NORTH

0 10 20 40

GRAPHIC SCALE: 1" = 20'

verizon

10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

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LICENSER:

GEORGIA REGISTERED No. PE050297 PROFESSIONAL ENGINEER TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY:	CHECKED BY:
JW	TRN

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
C9

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EROSION CONTROL NOTES:

1. EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE.
2. 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 OF.
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)	50

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 (lb/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

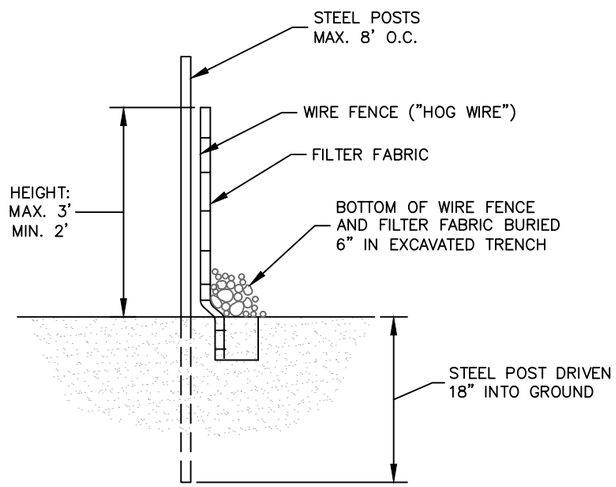
Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10–10–10 fertilizer.

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

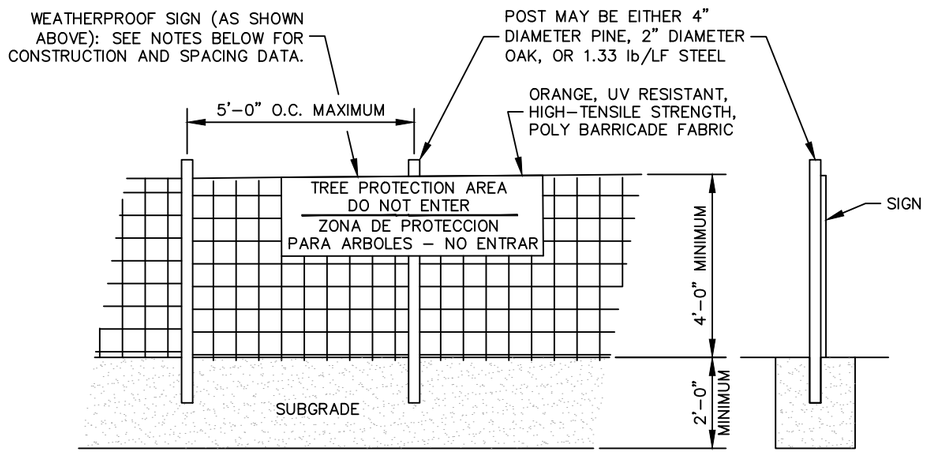
A minimum of 3 weeks is required for establishment. Inspect and repair mulch frequently. Refertilize the following Apr. with 50 lb/acre nitrogen.



SECTION

1 / C10 SEDIMENT FENCE (SILT FENCE)

NOT TO SCALE



NOTES
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.

2 / C10 TREE PROTECTION FENCE

NOT TO SCALE

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:
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MDG LOCATION ID: 5000970930
1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:
Kimley»Horn
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ALPHARETTA, GA 30009
PHONE: 770-619-4280
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LICENSER:

GEORGIA REGISTERED
No. PE050297
PROFESSIONAL
ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY:	CHECKED BY:
JW	TRN

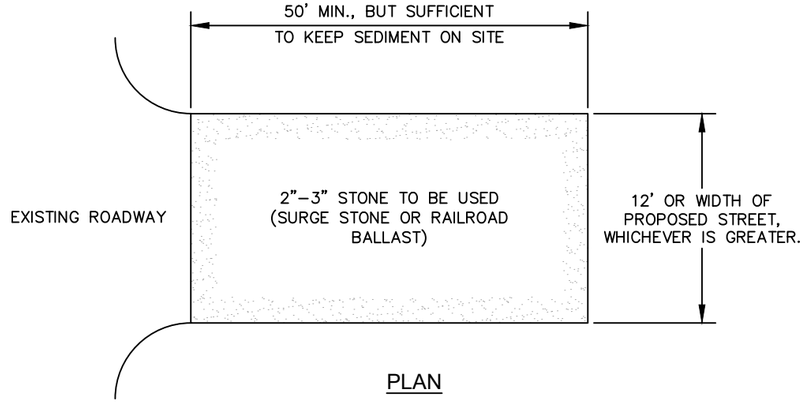
SHEET TITLE:
GROUND AND EROSION CONTROL DETAILS

SHEET NUMBER:
C10

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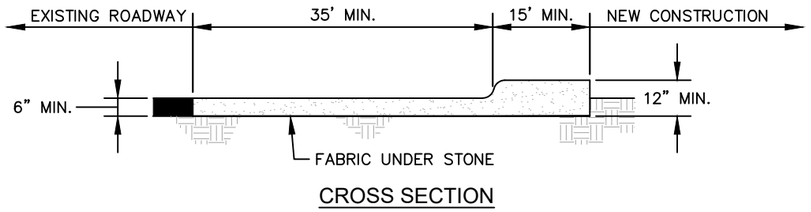
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PLAN

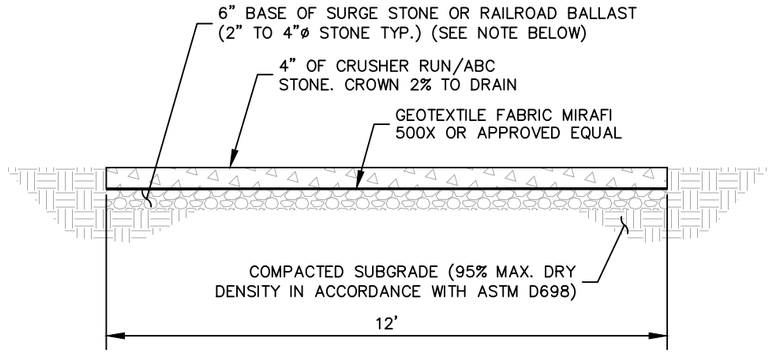
NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. IF A PROJECT CONTINUES 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.



CROSS SECTION

1 / C11 CONSTRUCTION ENTRANCE

NOT TO SCALE



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"ø STONE TYP.)

2 / C11 STANDARD ACCESS ROAD AND TURN-AROUND DETAIL

NOT TO SCALE

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

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MDG LOCATION ID: 5000970930

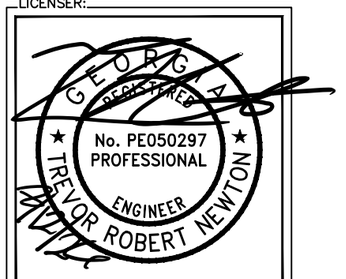
1 VERIZON PLACE
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LICENSER:



KHA PROJECT NUMBER: 013509546

DRAWN BY: JW | CHECKED BY: TRN

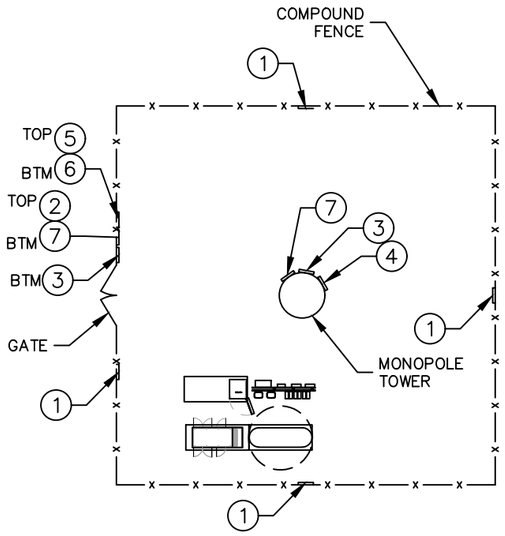
SHEET TITLE: ACCESS ROAD DETAILS

SHEET NUMBER: C11

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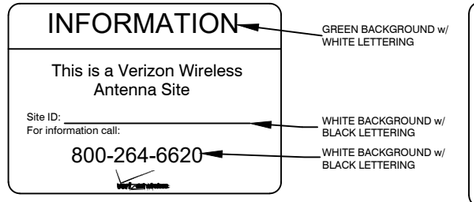
1 C12 SIGN PLACEMENT PLAN VIEW

NOT TO SCALE



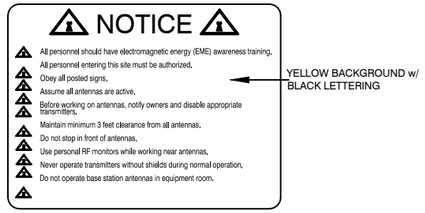
① NO-TRESPASSING SIGN

18" HIGH X 24" WIDE
(OPERATIONS PROVIDED)



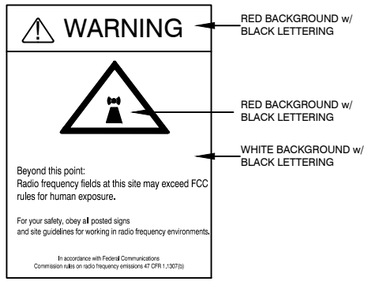
② VERIZON WIRELESS - SITE ID SIGN

15" HIGH X 23" WIDE
(OPERATIONS PROVIDED)



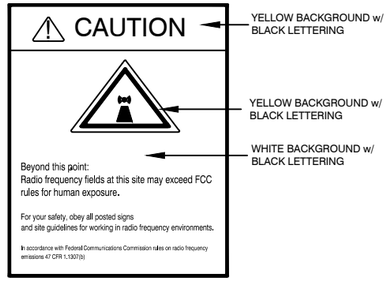
③ NOTICE-RFE SIGN

12" WIDE X 18" HIGH
(OPERATIONS PROVIDED)



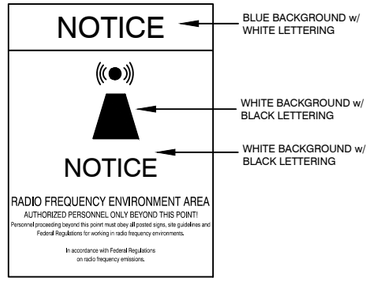
④ WARNING-RF SIGN (RED)

12" WIDE X 18" HIGH



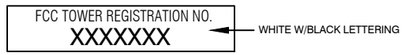
⑤ CAUTION-RF SIGN (YELLOW)

12" WIDE X 18" HIGH



⑥ NOTICE-RF SIGN (BLUE)

12" WIDE X 18" HIGH

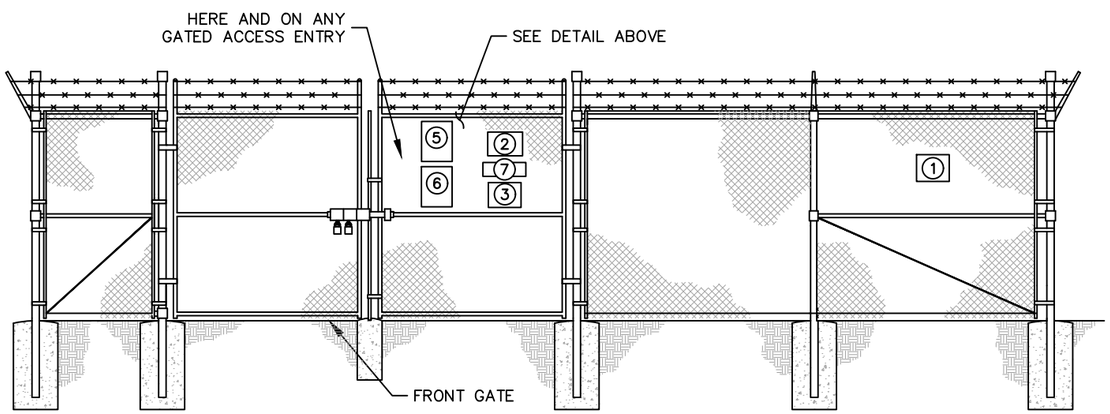


⑦ FCC REGISTRATION SIGN

20 WIDE X 4" HIGH

2 C12 TYPICAL SIGNS AND SPECIFICATIONS

NOT TO SCALE



3 C12 SIGN PLACEMENT FRONT GATE VIEW

NOT TO SCALE

SIGNAGE NOTES:

1. SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.

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DRAWN BY:	CHECKED BY:
JW	TRN

SHEET TITLE:
SITE SIGNAGE DETAILS

SHEET NUMBER:
C12

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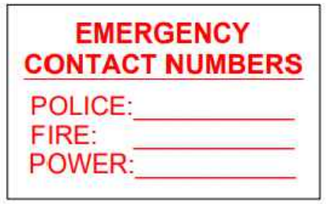
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① VZW EMERGENCY SIGN



② SAFETY ISSUE SIGN



③ EMERGENCY CONTACTS SIGN



④ A.T.S. WARNING SIGN



⑤ AUTHORIZED PERSONNEL ONLY SIGN



⑥ CHEMICAL SAFETY SIGN



⑦ DANGER-DIESEL FUEL SIGN



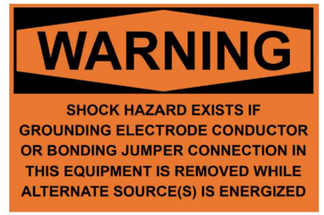
⑧ DANGER-BATTERIES SIGN



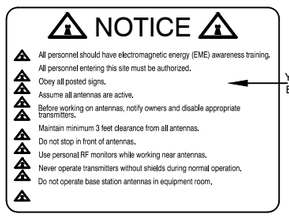
⑨ SUPPLY CAUTION SIGN



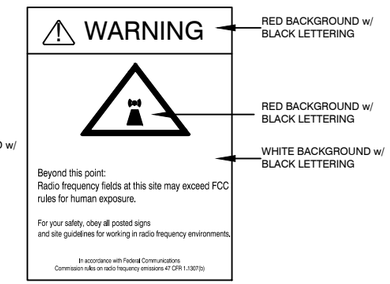
⑩ NOTICE-DISCONNECT SIGN



⑪ WARNING-SHOCK HAZARD SIGN



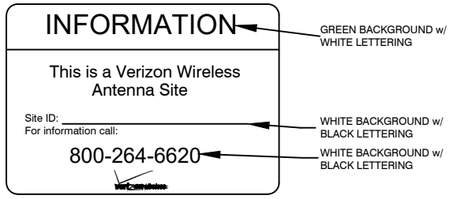
⑫ NOTICE-RFE SIGN



⑬ WARNING-RF SIGN (RED)

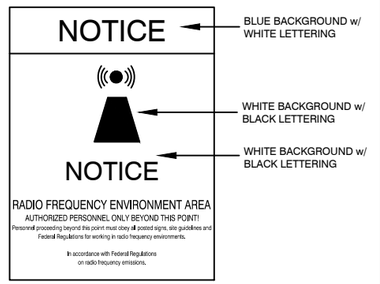


⑭ NO-TRESPASSING SIGN

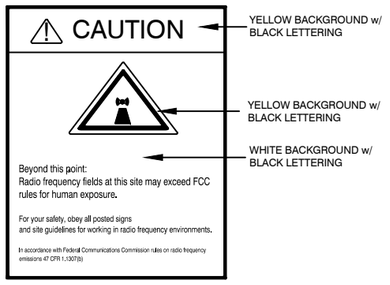


② VERIZON WIRELESS - SITE ID SIGN

15" HIGH X 23" WIDE
(OPERATIONS PROVIDED)



⑯ NOTICE-RF SIGN (BLUE)



⑰ CAUTION-RF SIGN (YELLOW)



⑱ FCC REGISTRATION SIGN

SIGNAGE NOTES:
1. SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
3. NOT ALL SIGNAGE SHOWN ABOVE MAY BE NECESSARY. PRIOR TO CONSTRUCTION, VERIFY WITH VERIZON CM WHICH SIGNAGE WILL BE REQUIRED FOR THIS BUILD

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

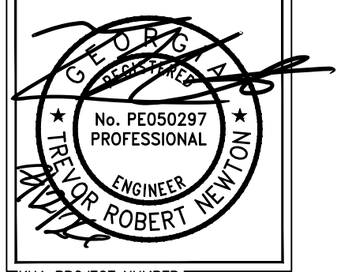
PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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KHA PROJECT NUMBER:
013509546

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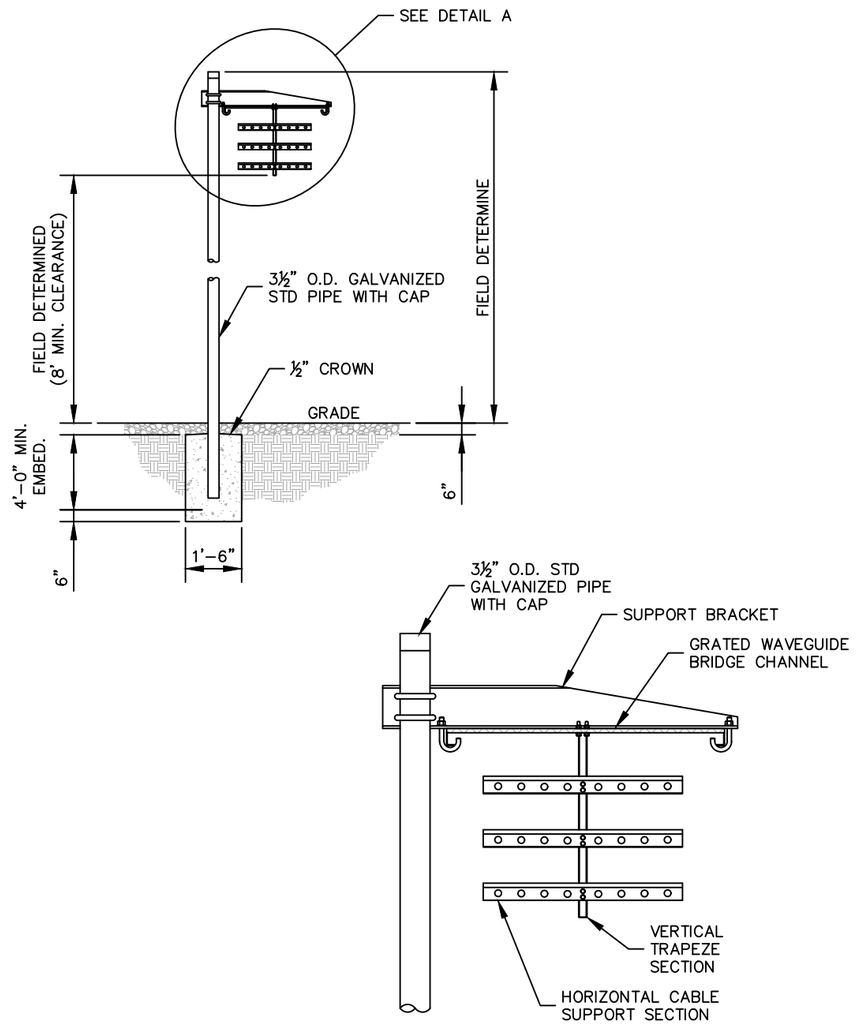
SHEET TITLE:
SITE SIGNAGE DETAILS

SHEET NUMBER:
C13

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DETAIL A

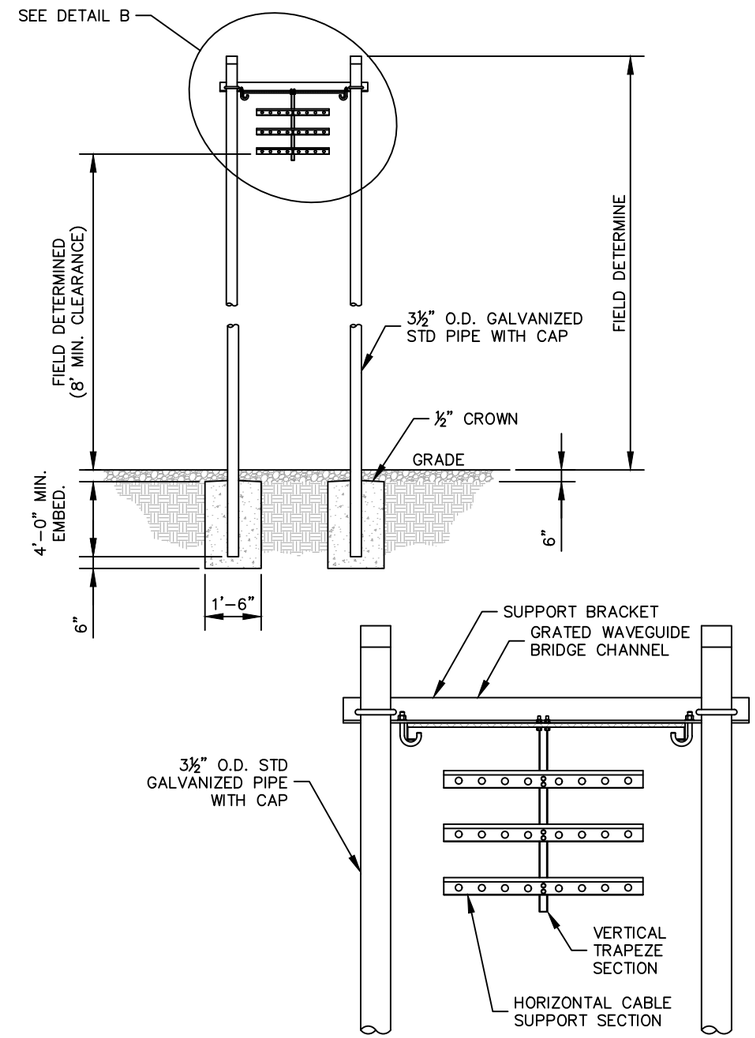
ANDREW 1 POST WAVEGUIDE BRIDGE KIT (PART #: WB-K210-B15, OR APPROVED EQUIVALENT)

NOTE:

1. ALL MATERIALS FURNISHED BY CONTRACTOR UNLESS OTHERWISE NOTED.

1 C14 WAVEGUIDE BRIDGE DETAIL

NOT TO SCALE



DETAIL B

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

NOTE:

1. ALL MATERIALS FURNISHED BY CONTRACTOR UNLESS OTHERWISE NOTED.

2 C14 WAVEGUIDE BRIDGE DETAIL (ALT DESIGN - 2 PIPE COLUMNS)

NOTE TO SCALE

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MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

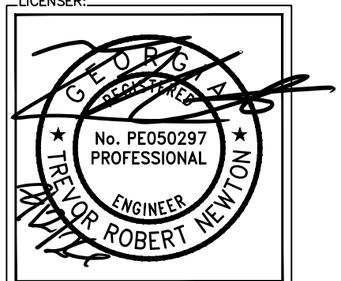
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KHA PROJECT NUMBER:
013509546

DRAWN BY: JW CHECKED BY: TRN

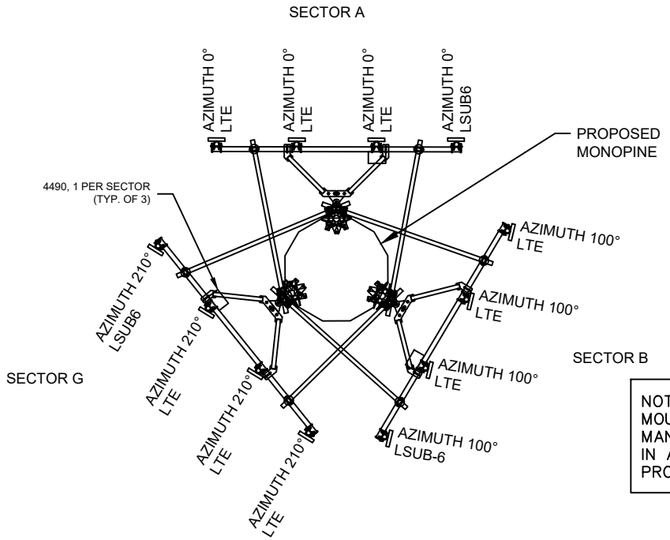
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WAVEGUIDE BRIDGE DETAILS

SHEET NUMBER:
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NOTE:
MOUNT MODEL TO BE SPECIFIED BY MOUNT MANUFACTURER AND SHALL BE SPECIFIED IN ACCORDANCE WITH NSTD_445 FOR THE PROPOSED RF LOADING.

1 / C15 ANTENNA ORIENTATION PLAN

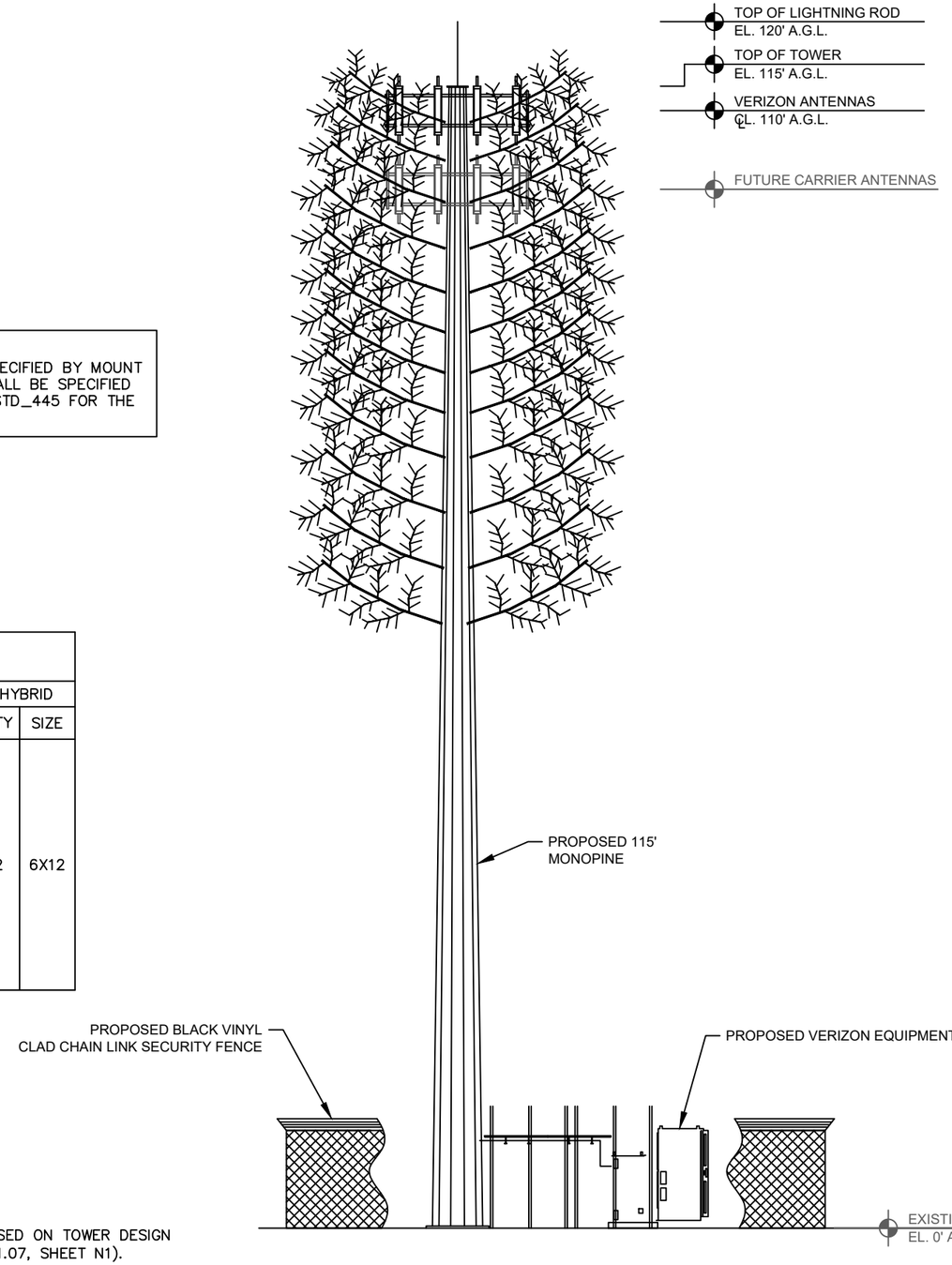
(NOT TO SCALE, FOR ILLUSTRATIVE PURPOSES ONLY, SEE STRUCTURAL ANALYSIS BY OTHERS TO CONFIRM ANTENNA MOUNT TYPE)

ANTENNA POSITION	AZIMUTH IN DEGREES	ANTENNA (QTY) MAKE/MODEL	REMOTE RADIO UNIT (QTY) MAKE/MODEL	RAYCAPS (QTY) MAKE/MODEL	HYBRID	
					QTY	SIZE
A1	0°	(1) ERICSSON/AIR3268	–	(1) RXXDC-6627-PF-48	2	6X12
A2	0°	(1) ERICSSON/AIR3283	–			
A3	0°	(1) JMA/MX08FRO860-B02E	(1) ERICSSON/4490			
A4	0°	(1) ERICSSON/AIR6419	–			
B1	100°	(1) ERICSSON/AIR3268	–			
B2	100°	(1) ERICSSON/AIR3283	–			
B3	100°	(1) JMA/MX08FRO860-B02E	(1) ERICSSON/4490			
B4	100°	(1) ERICSSON/AIR6419	–			
G1	210°	(1) ERICSSON/AIR3268	–			
G2	210°	(1) ERICSSON/AIR3283	–			
G3	210°	(1) JMA/MX08FRO860-B02E	(1) ERICSSON/4490			
G4	210°	(1) ERICSSON/AIR6419	–			

NOTES:
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.



2 / C15 MONOPINE TOWER ELEVATION

N.T.S.

NOTES:
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/FIBER 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.

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PROJECT INFORMATION:
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1 VERIZON PLACE
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DRAWN BY: JW | CHECKED BY: TRN

SHEET TITLE:
ANTENNA AND TOWER ELEVATION DETAILS

SHEET NUMBER:
C15

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ELECTRICAL NOTES

1.00 CODES, STANDARDS, & SPECIFICATIONS

1.01 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND LABOR RELATED DIRECTLY OR INDIRECTLY TO ALL ELECTRICAL WORK DOCUMENTED IN THESE DRAWINGS SHALL BE PROVIDED AND PERFORMED IN CONFORMANCE WITH ALL CURRENT GOVERNING CODES, STANDARDS, AND PROFESSIONAL STANDARD OF CARE TO INCLUDE THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), UNDERWRITERS LABORATORY (UL), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), AMERICAN STANDARDS ASSOCIATION (ASA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND THE NATIONAL ELECTRICAL CODE (NEC).

1.02 MATERIALS SHALL BE NEW AND SHALL CONFORM TO ALL APPLICABLE CURRENT GOVERNING STANDARDS ESTABLISHED FOR EACH ITEM BY ASTM, UL, NEMA, ASA, AND NFPA.

1.03 ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY, AND MUNICIPAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT GOVERNING STANDARDS AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND THE LOCAL UTILITY COMPANY.

1.04 ALL ELECTRICAL GROUNDING SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC.

1.05 CONTRACTOR SHALL MAINTAIN UL LISTED FIRE RATINGS AT ALL WALL PENETRATIONS.

1.06 CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 36" IN FRONT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC. MINIMUM CLEARANCE SHALL BE OBSERVED FOR BOTH THE FRONT AND THE REAR OF THE METER H-FRAME RACK AND THE EQUIPMENT H-FRAME RACK.

2.00 GENERAL

2.01 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES RELATED TO THE PROJECT AND SHALL DELIVER A COPY OF ALL PERMITS TO THE VERIZON REPRESENTATIVE.

2.02 CONTRACTOR SHALL SCHEDULE AND SHOULD ATTEND ALL INSPECTIONS REQUIRED BY THE JURISDICTION HAVING AUTHORITY.

2.03 CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC., FOR A COMPLETE WORKING ELECTRICAL INSTALLATION.

2.04 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

2.05 CONTRACTOR SHALL PROTECT ADJACENT EQUIPMENT AND FINISHES FROM DAMAGE AND SHALL REPAIR TO ORIGINAL CONDITION ANY ITEMS DAMAGED AS A RESULT OF THE WORK.

2.06 CONTRACTOR SHALL REPAIR ANY LANDSCAPING DISTURBED DURING CONSTRUCTION.

2.07 IF CONDUIT RUNS HAVE MORE THAN THREE (3) CONSECUTIVE 90 DEGREE TURNS, THE CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED BY NEC.

2.08 CONTRACTOR SHALL INDICATE THE LOCATION OF ALL CAPPED UNDERGROUND SPARE CONDUIT ON THE RECORD DRAWINGS SUBMITTED TO THE OWNER.

2.09 CONTRACTOR SHALL COORDINATE EXACT ROUTING OF CONDUIT WITH OWNER. ALL CONDUIT SHALL BE ROUTED WITHIN 3 FEET, EITHER SIDE, OF PERIMETER FENCING.

3.00 MATERIALS

3.01 ALL EQUIPMENT AND MATERIALS SHOWN SHALL BE CONSIDERED NEW UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

3.02 FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED BY VERIZON.

3.03 CONTRACTOR SHALL PROVIDE AN UPDATED PANELBOARD DIRECTORY FOR THE PANEL FROM WHICH THE NEW VERIZON EQUIPMENT CIRCUIT WILL BE CONNECTED. CONTRACTOR SHALL SUBMIT UPDATED DIRECTORY IN A PLASTIC COVER TO THE BUILDING OWNER FOR APPROVAL PRIOR TO INSTALLATION.

3.04 CONTRACTOR SHALL FIELD DETERMINE ACTUAL CONDUIT ROUTING AND SHALL OBTAIN APPROVAL FROM THE TOWER OWNER OF THE PROPOSED ROUTING PRIOR TO CONDUIT INSTALLATION.

3.05 ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION AND ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES CELSIUS.

3.06 ALL NEUTRAL CONDUCTORS SHALL HAVE WHITE INSULATION. ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT PERMITTED.

3.07 CONTRACTOR SHALL SEAL ALL CONDUITS ENTERING AN ENCLOSURE WITH CONDUIT SEALANT THAT IS COMPATIBLE WITH THE INSULATION OF THE CONDUCTORS IN THE CONDUIT.

3.08 CONDUIT RUNS SHALL HAVE A CONTINUOUS DOWNWARD SLOPE AWAY FROM ALL EQUIPMENT TO PREVENT WATER INFILTRATION.

3.09 ALL CONDUIT SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON THE PLANS. WHEN CONDUIT IS ROUTED UNDER A ROADWAY, SCHEDULE 80 PVC CONDUIT SHALL BE UTILIZED. MANUFACTURED BEND RADII SHALL BE PER NEC.

3.10 CONTRACTOR SHALL PROVIDE TWO (2) 200 POUND TEST POLYETHYLENE PULL CORDS IN ALL CONDUITS AND ALL INNERDUCTS. PULL CORDS SHALL BE SECURED AT EACH END OF CONDUIT RUNS. ALL SPARE CONDUIT ENDS SHALL BE CAPPED WITH MANUFACTURED PVC FITTINGS.

3.11 CONTRACTOR SHALL BOND EACH METALLIC CONDUIT ENTERING A METALLIC ENCLOSURE WITH A #8 MIN AWG INSULATED COPPER BONDING JUMPER PER NEC. CONTRACTOR SHALL BOND ALL ELECTRICAL EQUIPMENT TO THE H-FRAME RACK ON WHICH EQUIPMENT IS MOUNTED WITH #8 MIN AWG INSULATED COPPER BONDING JUMPERS PER NEC.

3.12 CONTRACTOR SHALL IDENTIFY THE END OF ALL SPARE UNDERGROUND CONDUITS AND PROVIDE AND INSTALL 90 DEGREE ELBOWS WITH VERTICAL CONDUIT EXTENSIONS TO EXTEND 3" ABOVE FINISHED CRUSHED AGGREGATE GRADE. CONTRACTOR SHALL TERMINATE CONDUITS WITH MANUFACTURED CONDUIT CAPS THAT THE CONTRACTOR HAS PAINTED ORANGE.

3.13 CONTRACTOR SHALL PROVIDE AND INSTALL AN ENGRAVED PHENOLIC PLATE ON THE FRONT OF THE INTEGRATED LOAD CENTER. THE WORDING ON THE PLATE SHALL READ AS FOLLOWS: "MAXIMUM DRAW OF ALL RECTIFIERS AND EQUIPMENT ON THE LOAD CENTER CANNOT EXCEED 50kW. IF ADDITIONAL POWER IS REQUIRED, THE EXISTING 50kW GENERATOR MUST BE REPLACED."

4.00 PRE-CONSTRUCTION COORDINATION

4.01 CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND NOTE EXISTING CONDITIONS THAT MIGHT AFFECT THEIR WORK. ALL SUCH CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID.

4.02 THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

4.03 CONTRACTOR SHALL VERIFY, PRIOR TO ROUGH-IN, THAT SITE CONDITIONS ALLOW FOR THE PLACEMENT OF THE ELECTRICAL EQUIPMENT AS SHOWN ON THE PLANS.

4.04 CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY REGARDING THE EXACT LOCATION OF THE TRANSFORMER, ALL METERING REQUIREMENTS, AND CONDUIT ROUTING BETWEEN TRANSFORMER AND METER.

4.05 CONTRACTOR SHALL COORDINATE WITH LOCAL TELCO UTILITY REGARDING THE EXACT LOCATION OF THE TELCO SERVICE ENTRY POINT.

4.06 CONTRACTOR SHALL COORDINATE WITH AUTHORITY HAVING JURISDICTION REGARDING LOCAL FROST LINE REQUIREMENTS FOR RACEWAY MATERIAL SELECTION AND INSTALLATION.

4.07 CONTRACTOR SHALL PERFORM AN ARC FLASH ANALYSIS AT THE INTEGRATED LOAD CENTER AND PROVIDE ARC FLASH LABEL PER NEC.

4.08 ALL CIRCUIT BREAKERS AND EQUIPMENT SHALL HAVE A MINIMUM AIC RATING OF 10,000 AMPS. IF THE RATING OF THE UTILITY TRANSFORMER PROVIDING THE ELECTRICAL SERVICE IS GREATER THAN 75 kVA, THE CONTRACTOR SHALL PERFORM A SHORT CIRCUIT ANALYSIS TO DETERMINE THE REQUIRED AIC RATING FOR THE CIRCUIT BREAKERS AND EQUIPMENT. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT (AFC) 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.

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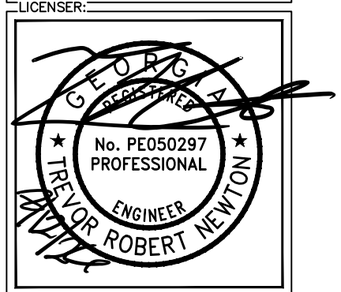
PROJECT INFORMATION:
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1 VERIZON PLACE
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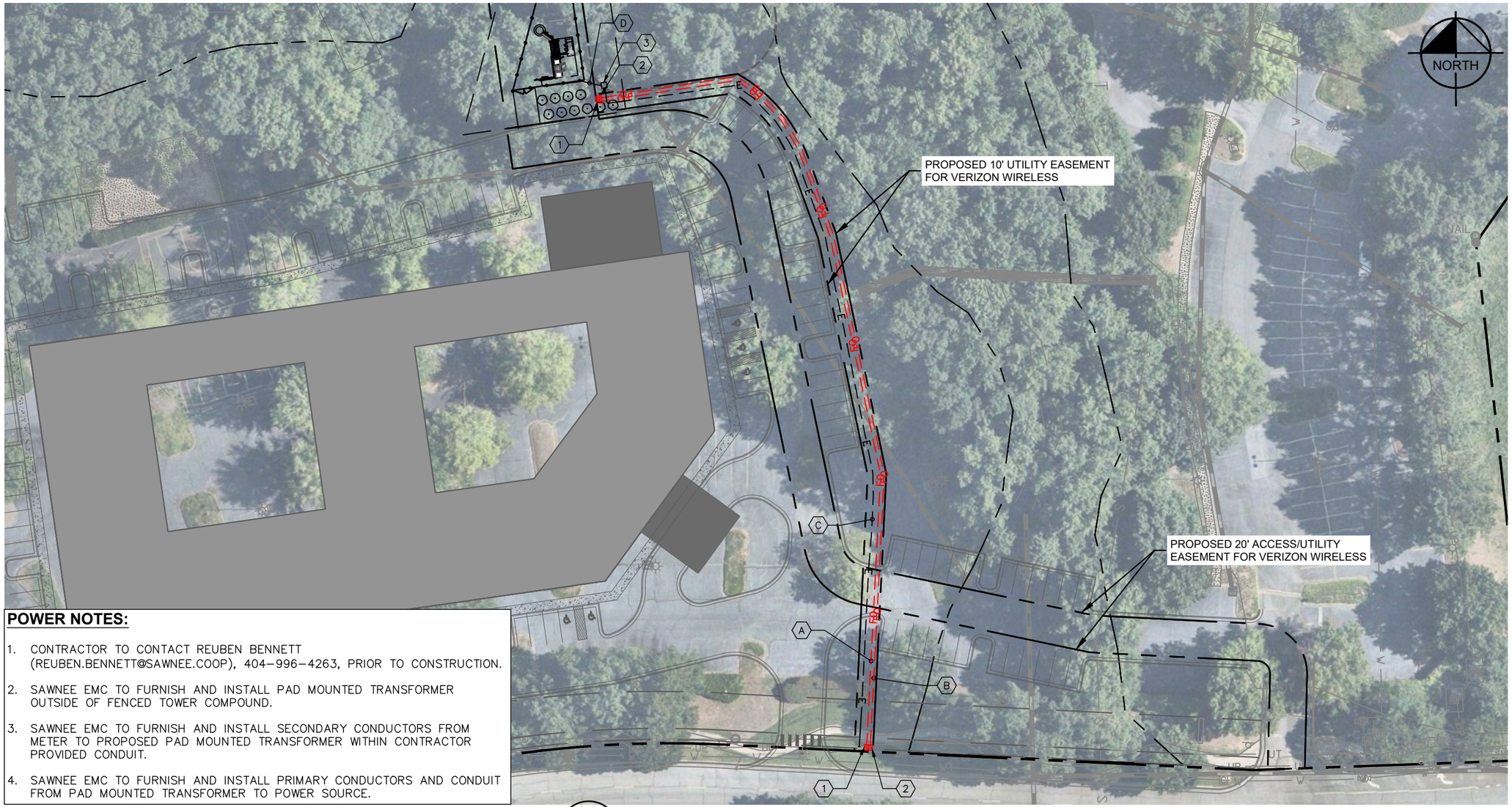
SHEET TITLE: ELECTRICAL NOTES

SHEET NUMBER: E1

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POWER NOTES:

1. CONTRACTOR TO CONTACT REUBEN BENNETT (REUBEN.BENNETT@SAWNEE.COOP), 404-996-4263, PRIOR TO CONSTRUCTION.
2. SAWNEE EMC TO FURNISH AND INSTALL PAD MOUNTED TRANSFORMER OUTSIDE OF FENCED TOWER COMPOUND.
3. SAWNEE EMC TO FURNISH AND INSTALL SECONDARY CONDUCTORS FROM METER TO PROPOSED PAD MOUNTED TRANSFORMER WITHIN CONTRACTOR PROVIDED CONDUIT.
4. SAWNEE EMC TO FURNISH AND INSTALL PRIMARY CONDUCTORS AND CONDUIT FROM PAD MOUNTED TRANSFORMER TO POWER SOURCE.

KEY NOTES - CONDUIT, CONDUCTORS, & MISC.

(A) PROPOSED LIT FIBER CONDUIT ROUTE (±455 LF) WITH (1) 2" CONDUIT FOR FIBER CABLES WITH MULE TAPE AND TRACER WIRE INSTALLED FROM THE ROW TO THE UTILITY H-FRAME. FINAL ROUTE TO BE CONFIRMED PRIOR TO CONDUIT INSTALLATION.

(B) PROPOSED DARK FIBER CONDUIT ROUTE (±455 LF) WITH (1) 2" CONDUIT FOR FIBER CABLES WITH MULE TAPE AND TRACER WIRE INSTALLED FROM THE ROW TO DARK FIBER HH OUTSIDE COMPOUND. FINAL ROUTE TO BE CONFIRMED PRIOR TO CONDUIT INSTALLATION.

(C) PROPOSED PRIMARY POWER ROUTE (±453 LF) (CONDUCTORS AND CONDUIT FURNISHED AND INSTALLED BY SAWNEE EMC)

(D) PROPOSED SECONDARY POWER ROUTE (±35 LF) (CONDUCTORS FURNISHED AND INSTALLED BY SAWNEE EMC, CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR)

1 / E2 OVERALL UTILITY ROUTING PLAN

SCALE: 1" = 60'

0 30 60 120

GRAPHIC SCALE: 1" = 60'

KEY NOTES - ELECTRICAL EQUIPMENT

(1) TRAFFIC RATED TELCO VAULT LABELED FOR LIT FIBER. (SPACED EVERY 400', AT MAJOR TRANSITION) (SEE NOTE 4.05 ON SHEET E1)

(2) TRAFFIC RATED TELCO VAULT LABELED FOR DARK FIBER. (SPACED EVERY 400', AT MAJOR TRANSITION) (SEE NOTE 4.05 ON SHEET E1)

(3) PROPOSED PAD MOUNTED TRANSFORMER FURNISHED AND INSTALLED BY SAWNEE EMC.

NOTES:

GENERAL CONTRACTOR IS TO CONFIRM WITH VERIZON CONSTRUCTION MANAGER WHETHER INSTALLATION OF THE TWO (2) 2" CONDUITS WILL BE PART OF THE INITIAL CONSTRUCTION.

PROPOSED VERIZON TELCO VAULTS AT RIGHT OF WAY LOCATED APPROXIMATELY 34° 5' 27.76"N, 84° 16' 4.28"W BASED ON GOOGLE EARTH IMAGERY.

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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A	07/16/26	PRELIMINARY	TRN

LICENSER:

GEORGIA REGISTERED No. PE050297 PROFESSIONAL ENGINEER TREVOR ROBERT NEWTON

KHA PROJECT NUMBER: 013509546

DRAWN BY: JW | CHECKED BY: TRN

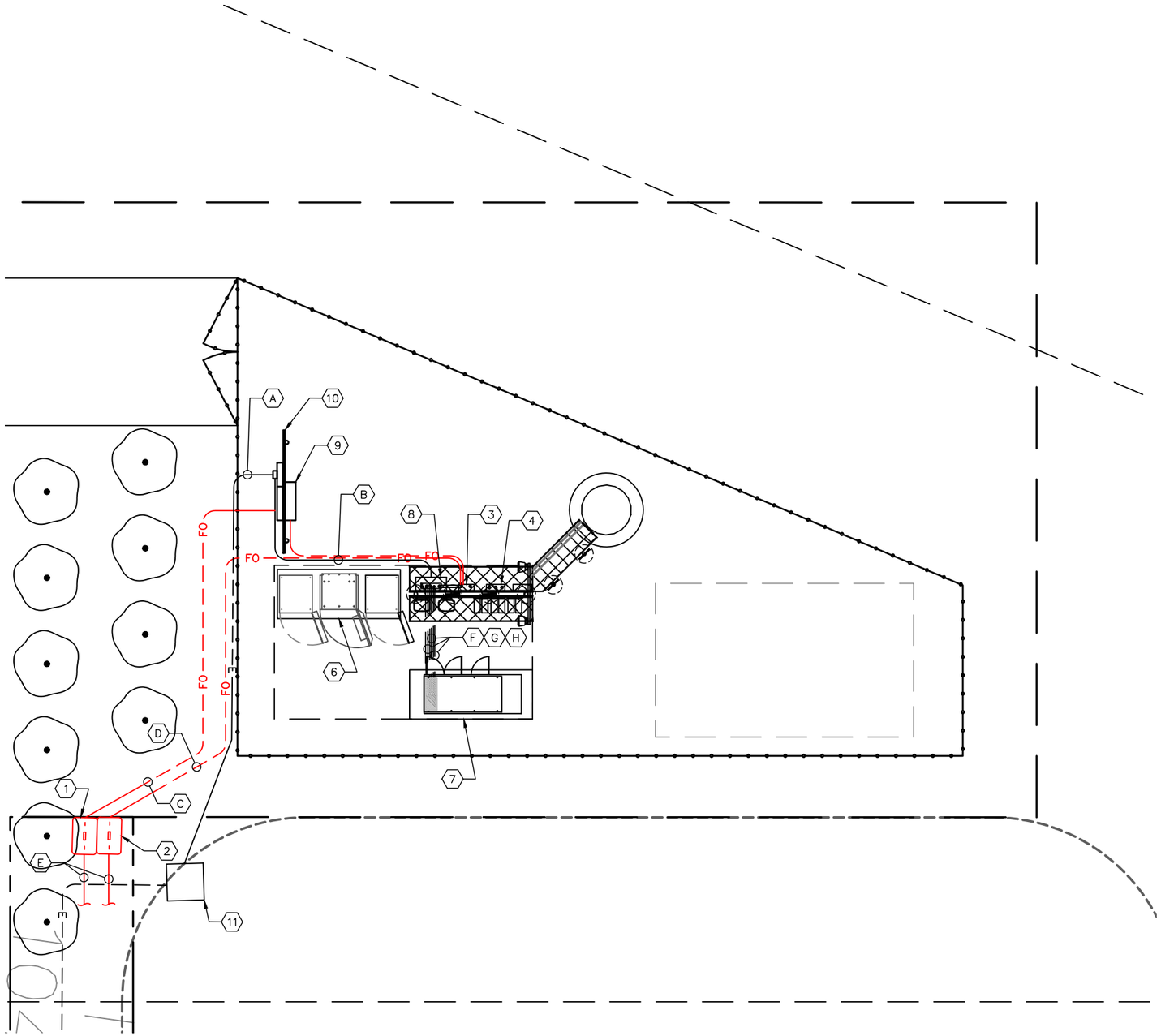
SHEET TITLE: OVERALL UTILITY ROUTING PLAN

SHEET NUMBER: E2

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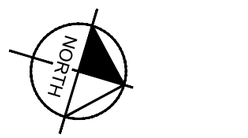
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1 / E3 UTILITY ROUTING PLAN

SCALE: 1" = 10'



0 5 10 20

GRAPHIC SCALE: 1" = 10'

KEY NOTES - ELECTRICAL EQUIPMENT

1. LIT FIBER HANDHOLE. GENERAL CONTRACTOR TO VERIFY EXISTENCE PRIOR TO CONSTRUCTION.
2. TRAFFIC RATED TELCO VAULT LABELED FOR DARK FIBER LOCATED OUTSIDE FENCE NEAR VERIZON EQUIPMENT AREA..
3. TELCO BOX (SEE SHEETS C3 & C4).
4. CIENA UNIT, IF NEEDED (SEE SHEETS C3 & C4).
5. KEYNOTE NOT USED.
6. VERIZON CONCRETE EQUIPMENT PAD (SEE SHEET C6).
7. VERIZON CONCRETE GENERATOR PAD (SEE SHEET C6).
8. INTEGRATED LOAD CENTER (SEE SHEETS C3 & C4).
9. 36" X 36" X 12" MULTI TENANT NEMA CABINET. (SEE SHEET E4.1)
10. UTILITY METER H-FRAME. (SEE SHEET E4)
11. PROPOSED PAD MOUNTED TRANFORMER FURNISHED AND INSTALLED BY SAWNEE EMC. LOCATION SHOWN IS APPROXIMATE. VERIFY FINAL LOCATION WITH LOCAL UTILITY PRIOR TO CONSTRUCTION.

KEY NOTES - CONDUIT, CONDUCTORS, & MISC.

A. (2) 4" PVC POWER CONDUITS FURNISHED AND INSTALLED BY CONTRACTOR FOR INCOMING SERVICE LATERALS PROVIDED BY LOCAL UTILITY (±35 LF)

B. 2" PVC POWER CONDUIT FROM PROPOSED METER RACK TO EQUIPMENT RACK. (SEE TRENCH DETAIL 2/E7)

C. PROPOSED LIT FIBER CONDUIT ROUTE (±50 LF) WITH (1) 2" CONDUIT FOR FIBER CABLES WITH MULE TAPE AND TRACER WIRE INSTALLED FROM THE UTILITY H-FRAME TO VERIZON H-FRAME. FINAL ROUTE TO BE CONFIRMED PRIOR TO CONDUIT INSTALLATION.

D. PROPOSED DARK FIBER CONDUIT ROUTE (±50 LF) WITH (1) 2" CONDUIT FOR FIBER CABLES WITH MULE TAPE AND TRACER WIRE INSTALLED FROM THE DARK FIBER HH OUTSIDE FENCE TO VERIZON H-FRAME. FINAL ROUTE TO BE CONFIRMED PRIOR TO CONDUIT INSTALLATION.

E. ONE (1) 2" PVC CONDUIT WITH MULE TAPE AND TRACER WIRE FOR LIT AND DARK FIBER, RESPECTIVELY. (SEE TRENCH DETAIL 2/E7 AND SHEET E2).

F. 2" PVC CONDUIT FOR ROUTING POWER CONDUCTOR TO THE GENERATOR. (SEE TRENCH DETAIL 2/E7).

G. 1" PVC CONDUIT FOR ROUTING GENERATOR CONTROL AND ALARM SIGNAL CABLES TO THE GENERATOR (SEE TRENCH DETAIL 2/E7).

H. 1" PVC CONDUIT FOR ROUTING POWER CONDUCTOR TO THE GENERATOR BATTERY CHARGER AND THE GENERATOR BLOCK HEATER (SEE TRENCH DETAIL 2/E7).

NOTES:

GENERAL CONTRACTOR IS TO CONFIRM WITH VERIZON CONSTRUCTION MANAGER WHETHER INSTALLATION OF LIT AND DARK FIBER INFRASTRUCTURE WILL BE PART OF THE INITIAL CONSTRUCTION.

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

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MDG LOCATION ID: 5000970930

1 VERIZON PLACE
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FULTON COUNTY

PLANS PREPARED BY:

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GEORGIA REGISTERED
No. PE050297
PROFESSIONAL
ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY:	CHECKED BY:
JW	TRN

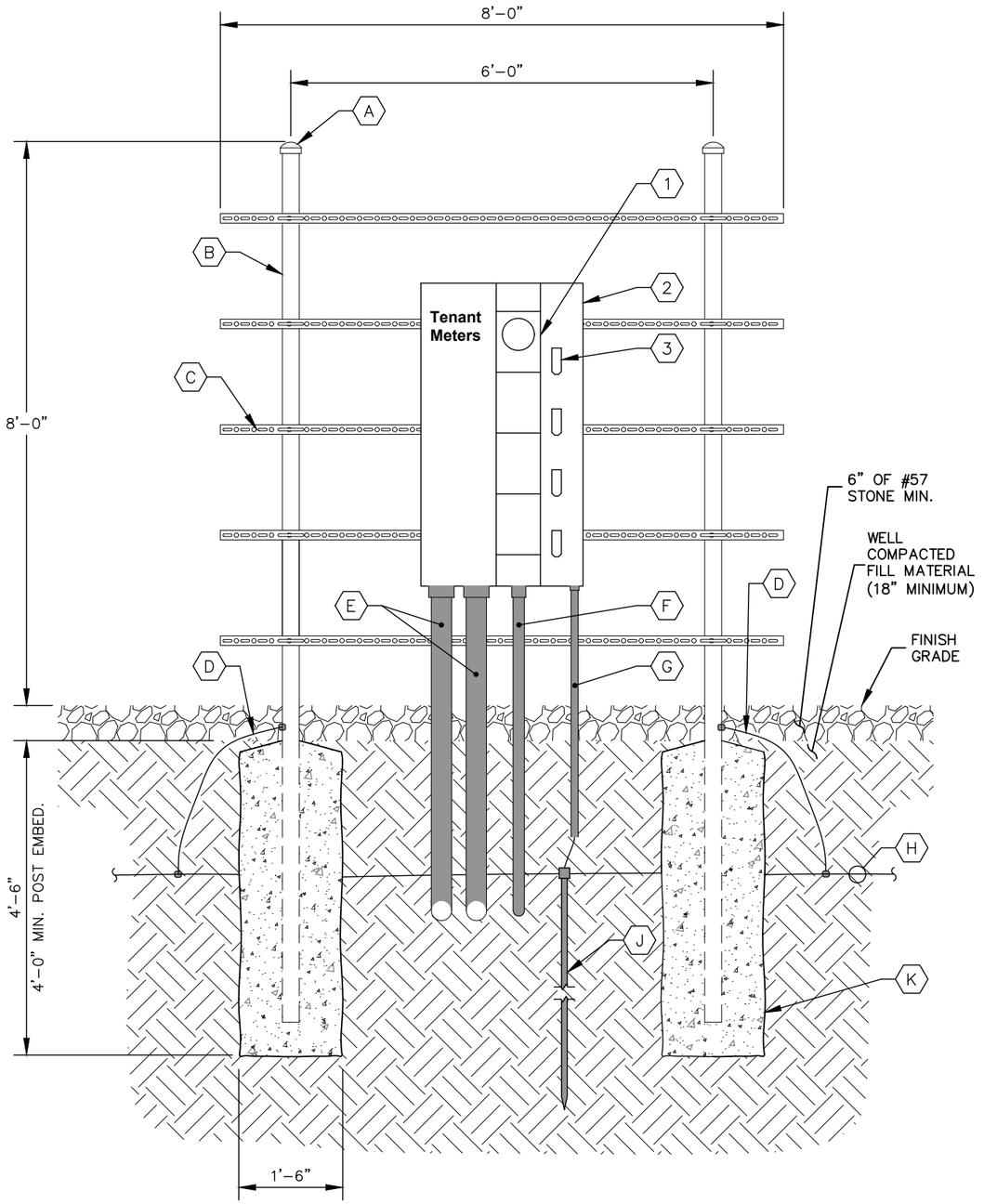
SHEET TITLE:
UTILITY ROUTING PLAN

SHEET NUMBER:
E3

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1 / E4 METER RACK DETAILS

NOT TO SCALE

KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- (A) GALVANIZED RIGID STEEL CAP, TYPICAL.
- (B) 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- (C) 1⅝" x 1⅝" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000 OR APPROVED EQUIVALENT) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- (D) ONE (1) #2 AWG BARE SOLID TINNED COPPER BONDING CONDUCTORS (BC) FROM H–FRAME VERTICAL PIPE TO GROUND RING, EXOTHERMIC WELD BOTH ENDS.
- (E) 4" PVC CONDUIT FOR INCOMING SERVICE LATERALS FROM LOCAL UTILITY, TYPICAL OF 2. SWITCH TO RGS CONDUIT FOR ANY ABOVE–GRADE ROUTING.
- (F) 2" PVC CONDUIT FOR ROUTING FEEDERS TO THE ILC. SWITCH TO RGS CONDUIT FOR ANY ABOVE–GRADE ROUTING.
- (G) ¾" PVC CONDUIT WITH ONE (1) – 2/0 BARE STRANDED TINNED COPPER GROUNDING ELECTRODE CONDUCTOR (GEC) FROM GROUNDING LUG TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD. SWITCH TO RGS CONDUIT FOR ANY ABOVE–GRADE ROUTING.
- (H) GROUND RING (SEE DETAIL 1/E9).
- (J) GROUND ROD, EXOTHERMIC WELD TO GROUND RING. (SEE DETAIL 1/E9 & 2/E11).
- (K) CONCRETE FOUNDATION FOR H–FRAME VERTICAL PIPE. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AND INCLUDE FIBERMESH 300–3E.

KEY NOTES - ELECTRICAL EQUIPMENT

- (1) 200 AMP METER SOCKET IN NEMA 3R ENCLOSURE, TYPICAL OF 4. ONLY TOP SOCKET WILL RECEIVE METER UNDER THIS CONTRACT.
- (2) 800 AMP, 22KAIC, 4 GANG, SERVICE ENTRANCE RATED METER CENTER IN NEMA 3R ENCLOSURE. BOND TO RACK PER NEC.
- (3) 200 AMP, 2 POLE (22KAIC) DISCONNECT CIRCUIT BREAKER FOR TOP METER ONLY. CONTRACTOR SHALL MOUNT THE METER CENTER SUCH THAT THE TOP CIRCUIT BREAKER IS NO MORE THAN 6' ABOVE GRADE.

NOTES:

1. ALL ABOVE–GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) AND GROUNDED USING A COLD WATER PIPE GROUND CLAMP WITH #2 AWG BARE TINNED COPPER GROUND WIRE.
2. ALL ABOVE–GRADE #2 AWG BARE TINNED COPPER GROUND WIRE SHALL BE ENCLOSED IN A MINIMUM 1/2" EMT CONDUIT AND CRIMPED EVERY 4" TO 6".
3. FOR CLARITY PURPOSES, THE FRONT ELEVATION OF THE "H" FRAME ONLY SHOWS EQUIPMENT AND CONDUIT ASSOCIATED WITH THE FRONT SIDE. SEE SHEET E4.1 FOR DETAILS ASSOCIATED WITH EQUIPMENT AND CONDUIT MOUNTED ON THE REAR SIDE OF THE "H" FRAME.

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

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KHA PROJECT NUMBER:
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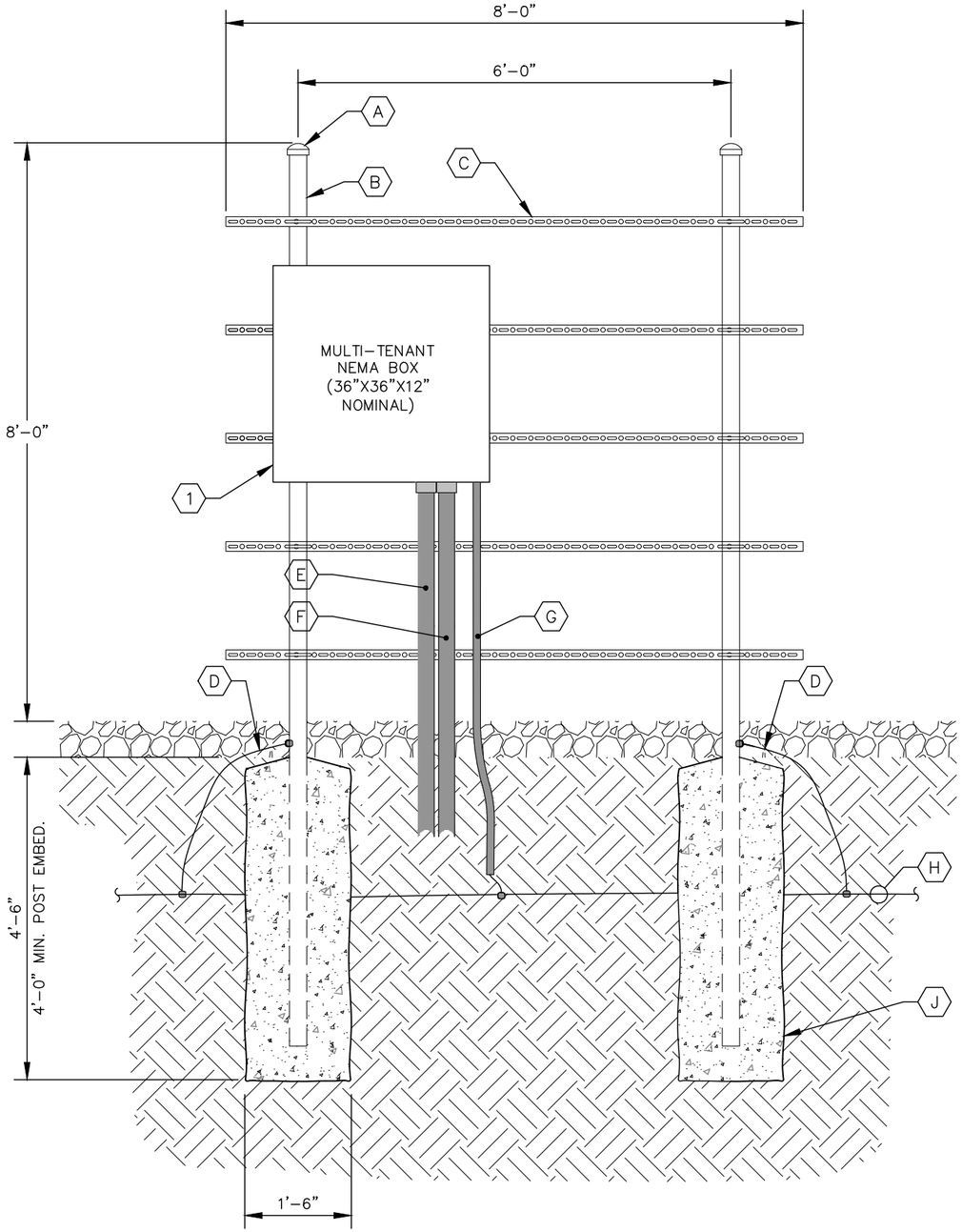
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METER RACK DETAILS - FRONT

SHEET NUMBER:
E4

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1 E4.1 METER RACK DETAILS

NOT TO SCALE

KEY NOTES - CONDUIT, CONDUCTORS, & MISC

(A) GALVANIZED RIGID STEEL CAP, TYPICAL.

(B) 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.

(C) 1⅝" x 1⅝" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000 OR APPROVED EQUIVALENT) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.

(D) ONE (1) #2 AWG BARE SOLID TINNED COPPER BONDING CONDUCTORS (BC) FROM H-FRAME VERTICAL PIPE TO GROUND RING, EXOTHERMIC WELD BOTH ENDS.

(E) (1) 2" PVC CONDUIT FOR INCOMING LIT FIBER FROM PUBLIC RIGHT OF WAY. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.

(F) (1) 2" PVC CONDUIT FOR OUTGOING LIT FIBER TO VERIZON H-FRAME. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.

(G) ½" PVC CONDUIT WITH ONE (1) – #2 AWG BARE TINNED COPPER GROUND LEAD TO EQUIPMENT GROUND RING. CAD-WELD. SWITCH TO RGS CONDUIT FOR ANY ABOVE-GRADE ROUTING.

(H) GROUND RING (SEE SHEETS E8 & E9).

(J) CONCRETE FOUNDATION FOR H-FRAME VERTICAL PIPE. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AND INCLUDE FIBERMESH 650-3E.

KEY NOTES - ELECTRICAL EQUIPMENT

(1) 36" x 36" x 12" MULTI-TENANT NEMA BOX.

NOTES:

1. ALL ABOVE-GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) AND GROUNDED USING A COLD WATER PIPE GROUND CLAMP WITH #2 AWG BARE TINNED COPPER GROUND WIRE.
2. ALL ABOVE-GRADE #2 AWG BARE TINNED COPPER GROUND WIRE SHALL BE ENCLOSED IN A MINIMUM 1/2" EMT CONDUIT AND CRIMPED EVERY 4" TO 6".
3. FOR CLARITY PURPOSES, THE REAR ELEVATION OF THE "H" FRAME ONLY SHOWS EQUIPMENT AND CONDUIT ASSOCIATED WITH THE REAR SIDE. SEE SHEET E4.0 FOR DETAILS ASSOCIATED WITH EQUIPMENT AND CONDUIT MOUNTED ON THE FRONT SIDE OF THE "H" FRAME.

verizon
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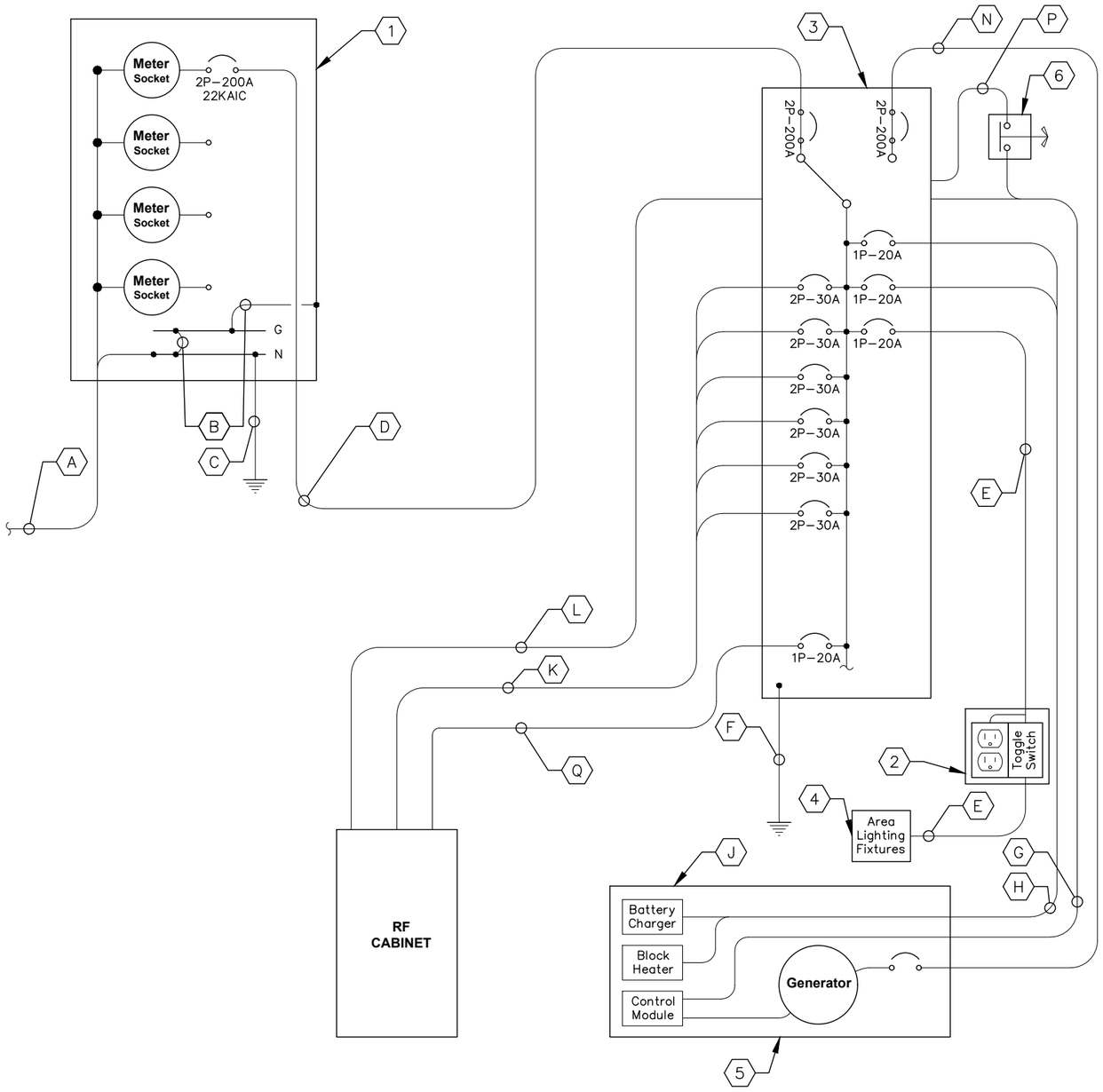
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METER RACK DETAILS - REAR

SHEET NUMBER:
E4.1

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REQUIRED SIGNAGE PER NEC 702 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 stand-by generator to start. To remove power entirely from the equipment, the generator must be turned OFF using emergency stop switch."

REQUIRED SIGNAGE PER NEC 702 AT SERVICE DISCONNECT & INTEGRATED LOAD CENTER

"NOTE: Emergency power is supplied by a stand-by generator located behind Verizon equipment rack."

1 / E5 ELECTRICAL SINGLE LINE DIAGRAM

NOT TO SCALE

KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- (A) TWO (2) 4" CONDUITS BY CONTRACTOR FOR INCOMING SERVICE LATERALS BY LOCAL UTILITY FOR 800 AMP, 120/240 VOLT SINGLE PHASE SERVICE.
- (B) BOND GROUND BUS TO NEUTRAL BUS AND GROUND BUS TO ENCLOSURE WITH 2/0 BONDING JUMPERS.
- (C) ONE (1) 2/0 BARE STRANDED TINNED COPPER GEC TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD.
- (D) THREE (3) 3/0 CONDUCTORS AND ONE (1) #6 AWG GROUND IN 2" CONDUIT.
- (E) TWO (2) #12 AWG CONDUCTORS AND ONE (1) #12 AWG GROUND IN 1" CONDUIT.
- (F) ONE (1) #2 BARE TINNED COPPER FROM GROUNDING LUG IN ILC TO GROUND ROD, EXOTHERMIC WELD TO GROUND ROD.
- (G) AUTOMATIC TRANSFER SWITCH ALARM AND GENERATOR CONTROL CABLES IN 1" CONDUIT.
- (H) FOUR (4) #12 CONDUCTORS AND ONE (1) #12 AWG GROUND IN 1" CONDUIT.
- (J) THE GENERATOR, WHEN UTILIZING A TWO POLE ATS WITH A SOLID NEUTRAL, IS NOT A SEPARATELY DERIVED SYSTEM. THEREFORE, DO NOT BOND THE NEUTRAL TO THE GROUND AT THE GENERATOR.
- (K) TWELVE (12) #10 AWG THHN CONDUCTORS AND THREE (3) #10 AWG EG IN 2" CONDUIT.
- (L) ALARM CABLES IN 1" CONDUIT.
- (M) KEYNOTE NOT USED.
- (N) THREE (3) 3/0 AWG CONDUCTORS AND ONE (1) #4 AWG EG IN 2" CONDUIT. VERIFY GENERATOR BREAKER DOES NOT EXCEED 200 AMPS.
- (P) 1" CONDUIT FOR ROUTING POWER CONDUCTORS FROM THE ILC TO THE EMERGENCY GENERATOR STOP SWITCH.
- (Q) TWO (2) #10 THHN CONDUCTORS AND ONE (1) #10 AWG FOR CABINET MOUNTED GFI OUTLET IN ONE 2" CONDUIT.

KEY NOTES - ELECTRICAL EQUIPMENT

1. FURNISH AND INSTALL 800 AMP, 3–WIRE, SINGLE PHASE, 120/240 VOLT, 22KAIC, FOUR–SPACE MULTI–GANG METER CENTER WITH 200 AMP RATED METER SOCKETS IN NEMA 3R ENCLOSURE, SE RATED. CONTRACTOR SHALL FURNISH AND INSTALL 200 AMP CIRCUIT BREAKER AT METER BASE IF NOT ALREADY EXISTING.
2. 20 AMP GFCI DUPLEX OUTLET RECEPTACLE AND TOGGLE SWITCH, ENERLITES HET06 SERIES (OR APPROVED EQUIVALENT) IN LOCKABLE NEMA 3R ENCLOSURE.
3. 200 AMP, 120/240 VOLT, SE RATED ILC WITH 42 SPACE PANEL AND AUTOMATIC TRANSFER SWITCH. ALL CIRCUIT BREAKERS SHALL BE RATED 10KAIC MINIMUM. ILC IS FURNISHED BY VZW AND INSTALLED BY GENERAL CONTRACTOR.
4. FURNISH AND INSTALL TWO (2) AREA LIGHTS, (LITHONIA HFR–250M–TA120–DNA–LP1), (OR APPROVED EQUIVALENT).
5. 50 KW DIESEL GENERATOR, CONTRACTOR SHALL COORDINATE SPECIFIC GENERATOR CONFIGURATION WITH OWNER AND INSTALL THE GENERATOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. GENERATOR BREAKER SIZED AND PROVIDED BY GENERATOR MANUFACTURER.
6. EMERGENCY GENERATOR STOP SWITCH IN NEMA 3R ENCLOSURE WILL BE FURNISHED BY VERIZON AND INSTALLED BY GC.

verizon

10300 OLD ALABAMA ROAD CONNECTOR
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1 VERIZON PLACE
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PLANS PREPARED BY:

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LICENSER:

GEORGIA REGISTERED No. PE050297 PROFESSIONAL ENGINEER TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY: JW | CHECKED BY: TRN

SHEET TITLE:
ELECTRICAL SINGLE LINE DIAGRAM

SHEET NUMBER:
E5

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VERIZON WIRELESS PANEL

Voltage: 240/120 Volts
Phase, Wires: Single Phase, 3 Wire
Mounting Type: Surface
Enclosure Type: NEMA 3R

MCB Size: 200 A
AIC Rating: 10,000 Amps min
Bus Rating: 200 A
Neurtal Rating: 100%

Load Served	Load (kVA) A	Load (kVA) B	Circuit Bkr Size	Ckt Nbr	Phase A	Phase B	Ckt Nbr	Circuit Bkr Size	Load (kVA) A	Load (kVA) B	Load Served
Rectifier #1	2.88		2P-30	1	*		2	2P-30	2.88		Rectifier #2
		2.88		3		*	4			2.88	
Rectifier #3	2.88		2P-30	5	*		6	2P-30	2.88		Rectifier #4
		2.88		7		*	8			2.88	
Rectifier #5	2.88		2P-30	9	*		10	2P-30	2.88		Rectifier #6
		2.88		11		*	12			2.88	
Spare Rectifier #7	0.00		2P-30	13	*		14	2P-30	0.00		Spare Rectifier #8
		0.00		15		*	16			0.00	
Area/Lights/GFCI	0.58		1P-20	17	*		18	1P-20	0.18		Cab Duplex Outlet
Gen. Block Heater		1.50	1P-20	19		*	20	---		0.00	Space
Gen. Battery Charger	0.30		1P-20	21	*		22	---	0.00		Space
Space		0.00	---	23		*	24	---		0.00	Space
Space	0.00		---	25	*		26	---	0.00		Space
TVSS (Internal to ILC)		0.00	2P-30	27		*	28	---		0.00	Space
	0.00			29	*		30	---	0.00		Space
Sub-Total (kVA)	9.52	10.14							8.82	8.64	**Sub-Total (kVA)**

	A	B	
	18.34	18.78	
	37.12		**Total Connected (kVA)**

LOAD SUMMARY

Load Description	Connected Load (kVA) A	Connected Load (kVA) B	Demand Factor	Demand Load (kVA) A	Demand Load (kVA) B	
Rectifiers/Equipment	17.28	17.28	1.00	17.28	17.28	
Largest Motor	0.00	0.00	1.25	0.00	0.00	
All Other Motors	0.00	0.00	1.00	0.00	0.00	
Lighting	0.40	0.00	1.25	0.50	0.00	
Duplex Receptacles	0.36	0.00	1.25	0.45	0.00	
Total Miscellaneous	0.30	1.50	1.25	0.80	1.88	
Total Power per Phase				19.03	19.16	kVA
Total Demand Current per Phase				158.58	159.63	Amps
Total Demand Power				38.19		kVA
***Generator Load**				37.51		kVA

*Note: Circuit Load and Demand Factor Provided By Verizon Wireless.

1 / E6 PANEL SCHEDULE

NOT TO SCALE

verizon
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PROFESSIONAL
ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY: JW | CHECKED BY: TRN

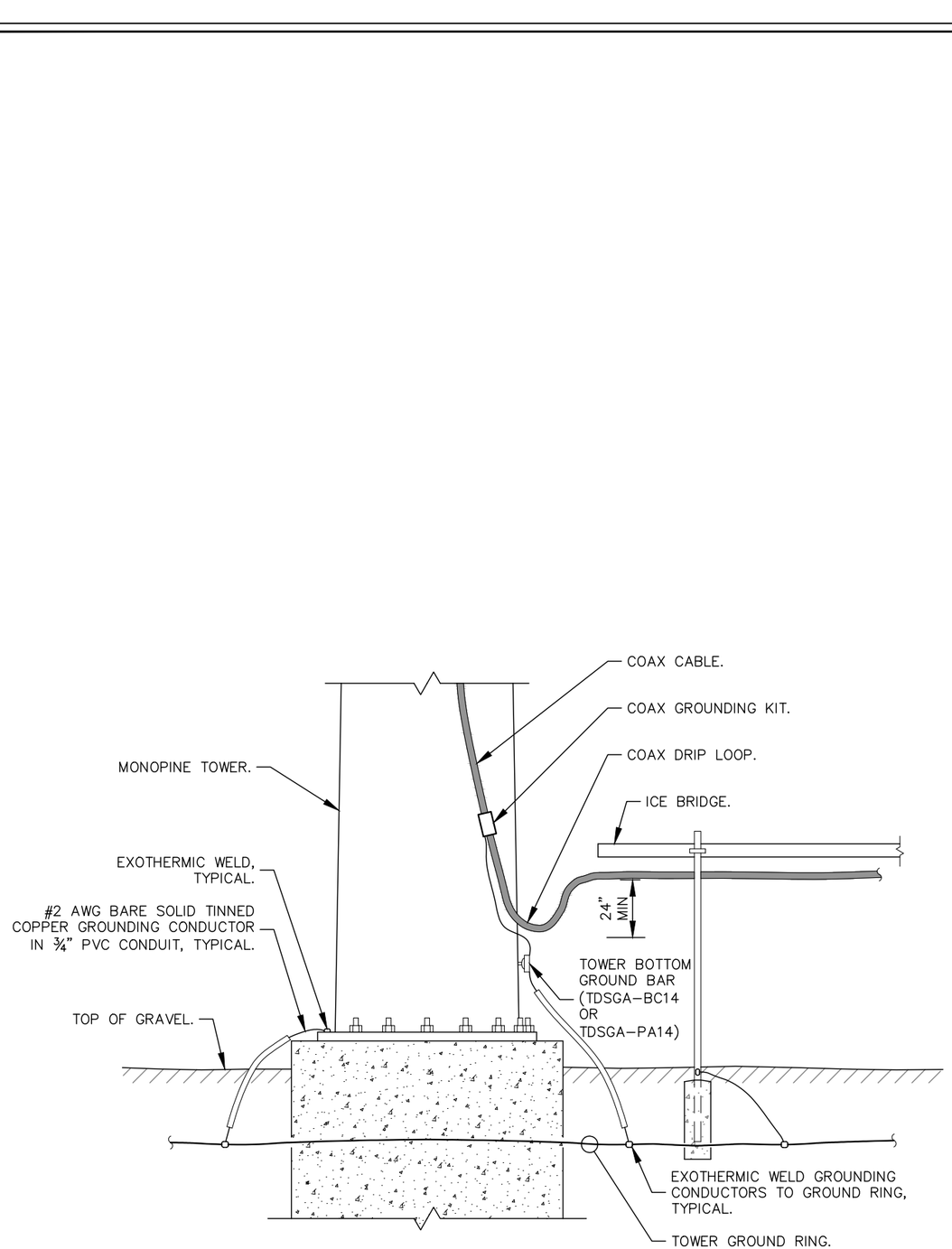
SHEET TITLE:
PANEL SCHEDULE

SHEET NUMBER:
E6

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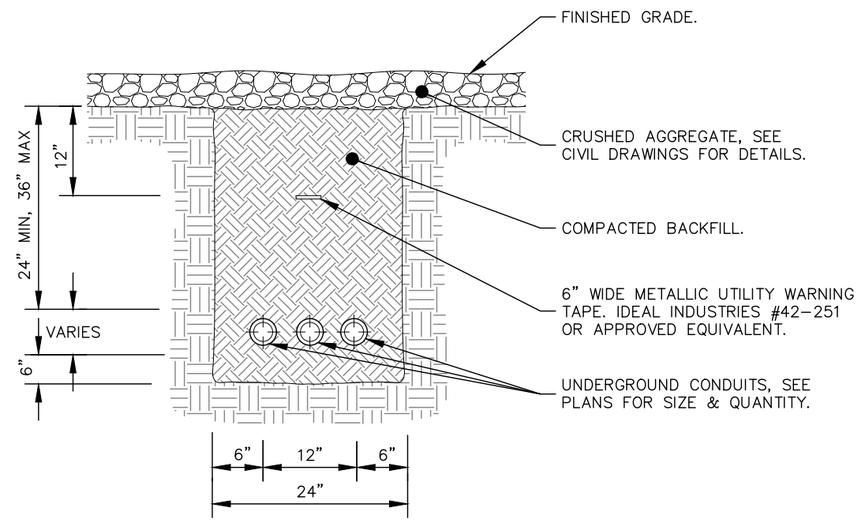
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1 / E7 DRIP LOOP DETAIL

NOT TO SCALE



NOTES:
1. IF GROUND SURFACE IS OTHER THAN NEWLY GRAVELED AREA. CONTRACTOR IS TO RESTORE TO ORIGINAL CONDITION.
2. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
3. PROVIDE SCHEDULE 40 OR SCHEDULE 80 PVC CONDUIT & ELBOWS AT STUB UP LOCATIONS (I.E. POLES, EQUIPMENT, ETC.)
4. PROVIDE SCHEDULE 80 PVC CONDUIT BELOW PARKING LOTS AND ROADWAYS.

2 / E7 TYPICAL TRENCH DETAIL

NOT TO SCALE

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
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A	07/16/26	PRELIMINARY	TRN

LICENSER:

GEORGIA REGISTERED
No. PE050297
PROFESSIONAL
ENGINEER
TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY: JW | CHECKED BY: TRN

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E7

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GROUNDING NOTES

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 AREA 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 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. WHERE SPREAD TOWER FOOTING WOULD PREVENT GROUND RODS FROM BEING DRIVEN INTO SOIL ADJACENT TO TOWER, PROVIDE VERTICAL 1" DIAMETER PVC SLEEVES EMBEDDED IN FOOTING TO ALLOW INSTALLATION OF GROUND RODS.

4. EQUIPMENT GROUND RING AND TOWER GROUND RING SHALL BE BONDED TOGETHER WITH TWO #2 STC GROUND LEADS, TYPICALLY ONE ON EACH SIDE OF ICE BRIDGE.

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 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. EQUIPMENT AREA GROUND RING AND CONNECTING GROUND LEADS [BETWEEN EQUIPMENT AREA AND TOWER GROUND RINGS] MAY BE USED AS PART OF THE RADIAL GOING TO THE FENCE CORNER POST CLOSEST TO THE EQUIPMENT AREA.

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 CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO ALL CONNECTIONS. APPLY ZINC RICH PAINT (COLD GALV.) TO ALL EXOTHERMIC WELDS, AND TO ANY METAL EXPOSED BY CLEANING, STRIPPING, GRINDING, CUTTING OR DRILLING.

9. ALL GROUNDING CONDUCTORS ABOVE GRADE SHALL BE RUN IN 3/4" FLEXIBLE 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.

10A. AT GUYED AND SELF SUPPORT TOWERS MOUNT TDSGA-PA14 TOWER BOTTOM GROUND BAR ON DEDICATED POST DIRECTLY BELOW COAX CABLES COMING OFF TOWER. POST TO BE 3.5" OD GALVANIZED SCHEDULE 40 PIPE WITH GALVANIZED PIPE CAP. TOP OF POST TO BE 78" ABOVE GRADE. EMBED POST 30" MINIMUM IN 12" DIAMETER BY 36" DEEP MINIMUM CONCRETE FOOTING WITH TOP OF FOOTING 6" BELOW GRADE. IF TOWER FOUNDATION OBSTRUCTS AUGERED FOOTING, USE POST WITH 10" SQUARE GALVANIZED STEEL FLANGE PLATE WELDED TO BOTTOM AND BOLT FLANGE TO TOP OF CONCRETE TOWER FOOTING.

10B. AT MONOPOLE TOWERS CLAMP TDSGA-BC14 TOWER BOTTOM GROUND BAR DIRECTLY TO TOWER. IF RUNNING COAX INSIDE MONOPOLE, CLAMP ONTO BOTTOM LIP OF EXIT PORT. IF BANDING COAX TO OUTSIDE OF TOWER, CLAMP ONTO STEEL ANGLE WHICH IS BANDED TO TOWER. BOND TDSGA-BC14 TO TOWER GROUND RING WITH TWO #2 STC LEADS LUGGED TO GROUND BAR AND EXOTHERMICALLY WELDED TO GROUND RING.

11. AT EQUIPMENT AREA, INSTALL TDSGA-PA14 EXTERIOR GROUND BAR (THRU-BOLTED STYLE) AT BASE OF (2) INTERIOR H-FRAME POSTS AND AT TOP OF ICE BRIDGE POST WHICH IS NEAREST TO (BUT CLOSER TO TOWER THAN) THE COAX CABLE TERMINATION. MOUNT GROUND BAR TO H-FRAME POSTS AT 6" ABOVE GRAVEL AND TO ICE BRIDGE POST AT 6FT ABOVE GRAVEL.

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. ICE BRIDGE SECTIONS ABOVE H-FRAME SHALL BE BONDED TO EACH OTHER WITH JUMPERS AT EACH END – THIS ASSEMBLY WILL BE CONSIDERED AS A SINGLE ICE BRIDGE SECTION FOR GROUNDING PURPOSES.

13. BOND EACH ICE BRIDGE POST, H-FRAME POST OR DEDICATED GROUNDING POST TO BURIED GROUNDING SYSTEM WITH #2 STC LEAD EXOTHERMICALLY WELDED TO POST BELOW TOP OF GRAVEL AND EXOTHERMICALLY WELDED TO GROUND RING. EACH POST TO HAVE SEPARATE GROUND LEAD DIRECTLY TO GROUND RING – DO NOT DAISY CHAIN POSTS TOGETHER.

14. BOND EACH RF CABINET TO EQUIPMENT GROUND RING WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR LUGGED TO CABINET BODY AND EXOTHERMICALLY WELDED TO GROUND RING. LUG TO CABINET BODY USING LOCATION AT WHICH STUDS ON CABINET CHASSIS HAVE DIRECT GROUND WIRE CONNECTION TO CABINET INTERNAL GROUND BAR. RUN CONDUIT AND CONDUCTOR ACROSS BACK OF CABINET (DO NOT RUN TOWARDS NEAREST CORNER OF CABINET AND THEN BEND GROUND WIRE SHARPLY), ACROSS CONCRETE PAD BELOW CABLE LADDER, THEN DOWN INTO GRAVEL AREA.

15. BOND EACH BATTERY CABINET TO GROUND RING 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.

16. 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 TAKE SHORTEST PATH ACROSS CONCRETE PAD TO GRAVEL AREA, THEN CONTINUE TO GROUND RING.

17. WHERE PROPANE TANK IS INSTALLED TO FUEL GENERATOR, BOND PROPANE TANK TO GROUND RING WITH A SINGLE #2 STC CLAMPED TO FILLER PIPE OF PROPANE TANK AND EXOTHERMICALLY WELDED TO GROUND RING. GROUND LEAD SHOULD RUN TO TANK SUPPORT AND TAKE SHORTEST PATH ACROSS CONCRETE PAD TO GRAVEL AREA, THEN CONTINUE TO GROUND RING. IF PROPANE TANK FUEL LINE IS METALLIC AND CROSSES EQUIPMENT GROUND RING, BOND FUEL LINE TO EQUIPMENT GROUND RING WHERE THE TWO LINES CROSS WITH A SINGLE #2 STC CLAMPED TO FUEL LINE AND EXOTHERMICALLY WELDED TO GROUND RING.

18. BOND GPS ANTENNA and GPS ANTENNA MOUNT TO TSDGA GROUND BAR AT BOTTOM OF H-FRAME POST WITH #2 GREEN INSULATED STRANDED GROUND WIRE.

19. 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.

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

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

22. ANY METAL FENCE POST WITHIN 6FT OF A GROUNDED METAL OBJECT SHALL BE BONDED TO THE NEAREST GROUND RING. ANY METAL FENCE WITHIN 6FT OF A GROUND RING SHALL HAVE THE LINE POSTS BONDED TO THE GROUND RING AT 20FT MAXIMUM INTERVALS AS MEASURED ALONG THE LENGTH OF THE FENCE.

23. WHERE GROUND BASED RRU'S, RAYCAP OVP'S OR DIPLEXERS ARE INSTALLED AT THE EQUIPMENT AREA, BOND EACH COMPONENT TO NEAREST TDSGA GROUND BAR BELOW THE COMPONENT WITH #2 GREEN INSULATED STRANDED GROUND WIRE. SINGLE HOLE LUG OR RING TYPE CONNECTOR IS SUITABLE FOR CONNECTION TO GROUNDING STUD ON EACH COMPONENT.

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.

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

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1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

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11720 AMBER PARK DRIVE, SUITE 600
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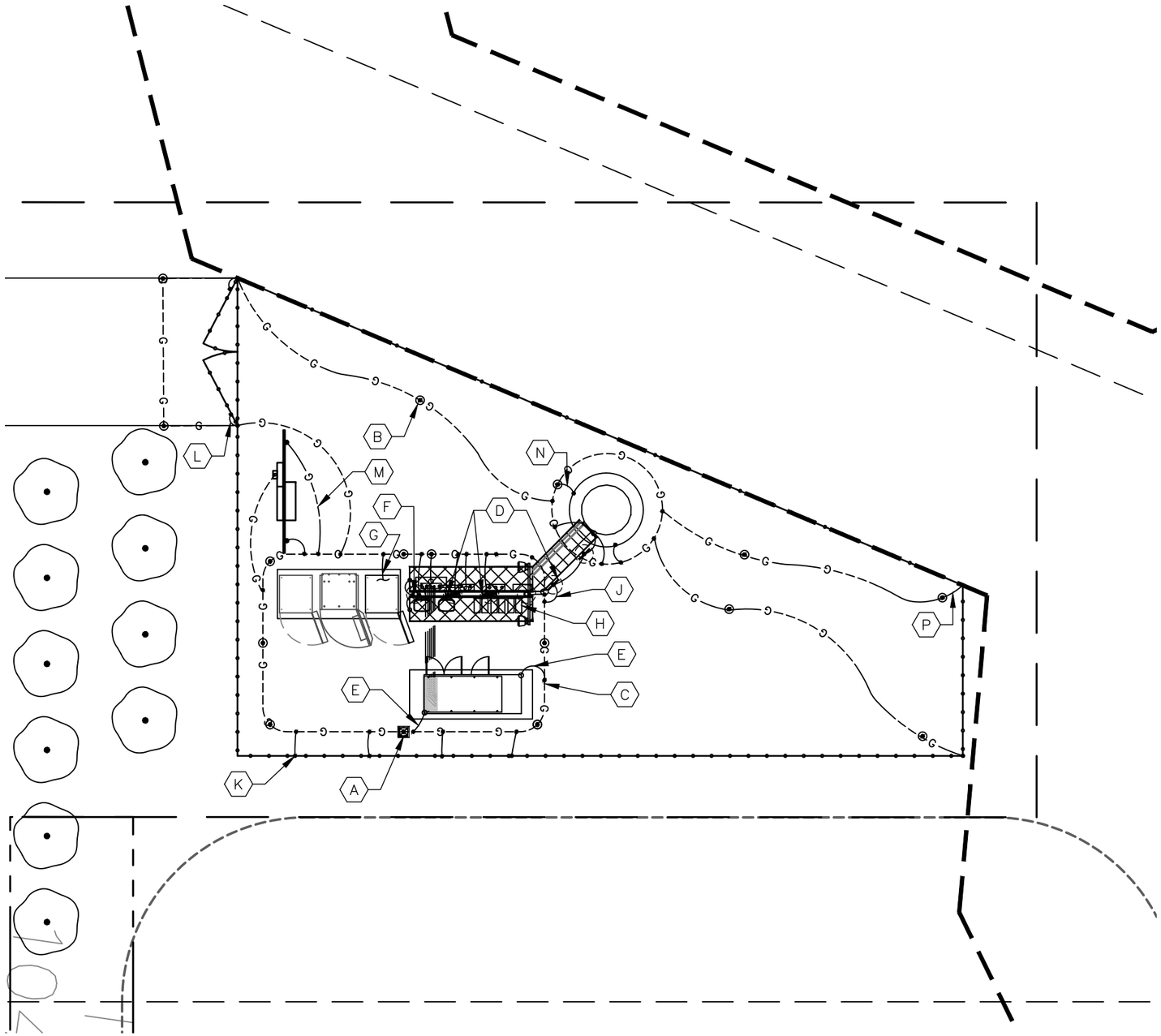
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GROUNDING NOTES

SHEET NUMBER:
E8

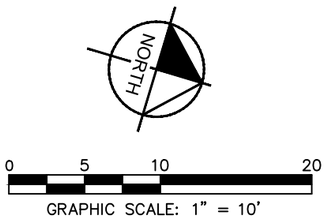
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1 / E9 GROUNDING PLAN
SCALE: 1" = 10'



KEY NOTES - GROUNDING EQUIPMENT

- (A) GROUND ROD TEST WELL (SEE DETAIL 1/E11).
- (B) GROUND ROD, TYPICAL (SEE DETAIL 2/E11 AND NOTES 2 AND 3 ON E8).
- (C) TOWER AND EQUIPMENT GROUND RING (SEE NOTES 1, 3, 4, 5, 6 AND 7 ON E8).
- (D) TDSGA–PA14 OR TDSGA–BC14 WHERE APPLICABLE (SEE NOTES 10 AND 11 ON E8).
- (E) GENERATOR GROUNDING (SEE NOTE 16 ON E8).
- (F) GPS ANTENNA GROUNDING (SEE NOTE 18 ON E8).
- (G) RF CABINET GROUNDING (SEE NOTE 14 ON E8).
- (H) RRU'S AND OVP'S GROUNDING (SEE NOTE 23 ON E8).
- (J) ICE BRIDGE POST BOND TO GROUND RING, TYPICAL (SEE NOTES 12 AND 13 ON E8).
- (K) FENCE POST GROUNDING, TYPICAL. (SEE NOTE 22 ON E8).
- (L) GATE GROUNDING, TYPICAL. (SEE NOTES 19, 20 & 21 ON E8).
- (M) UTILITY H–FRAME GROUNDING, TYPICAL. (SEE SHEET E4 AND NOTE 13 ON E8).
- (N) TOWER GROUNDING, TYPICAL. (SEE NOTES 5, 6 & 25 ON E8).
- (P) GROUND RADIALS, TYPICAL (SEE NOTE 6 ON E8).
- (Q) REFER TO SHEETS E8, E10, E11 & E12 FOR GROUNDING NOTES, DETAILS, AND SPECIFICATIONS.

LEGEND:

- GROUND RING
- GROUND ROD EXOTHERMICALLY WELDED TO GROUND RING
- EXOTHERMIC WELD
- GROUND ROD TEST WELL (SEE DETAIL 1/E11)
- MECHANICAL CONNECTION

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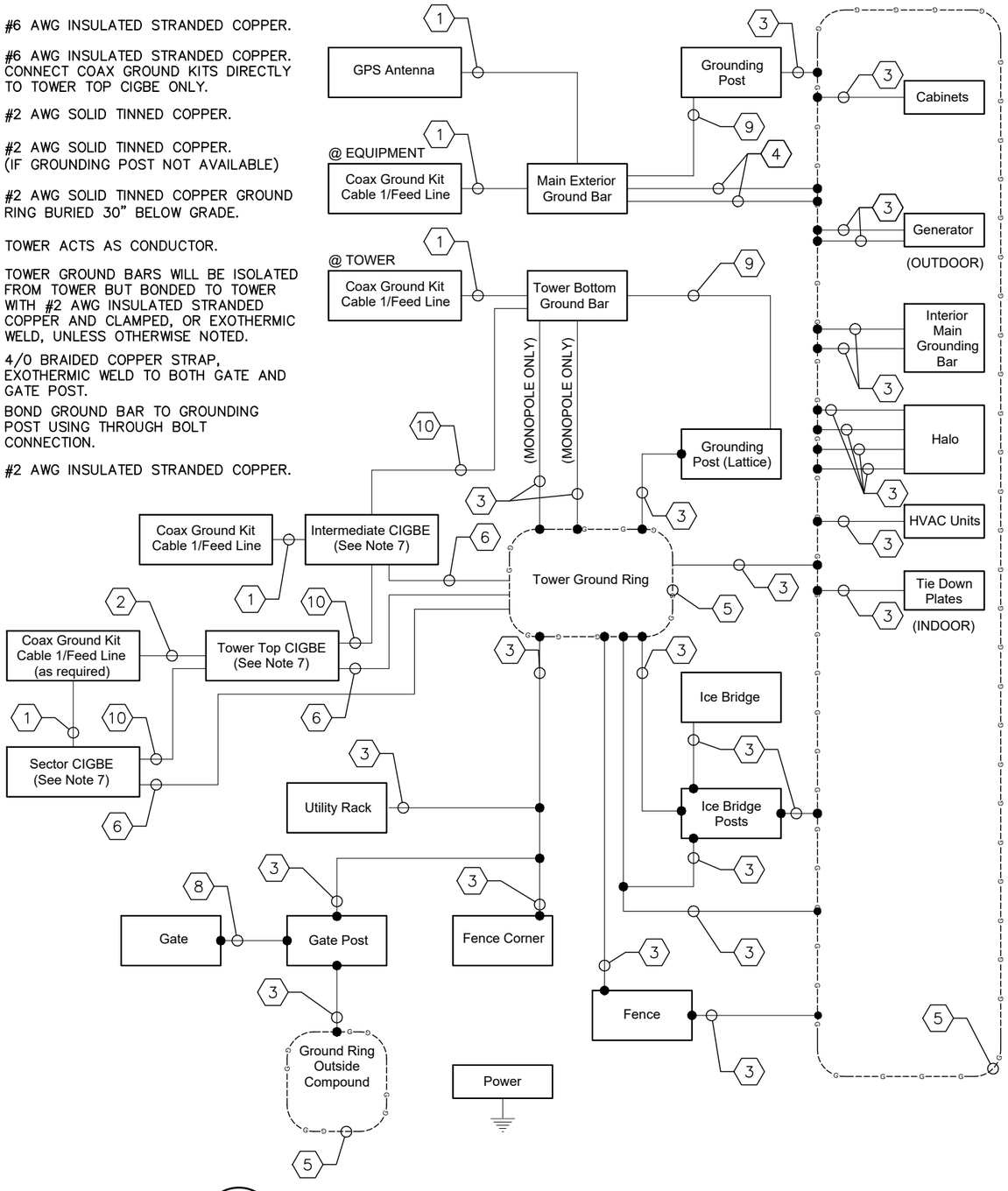
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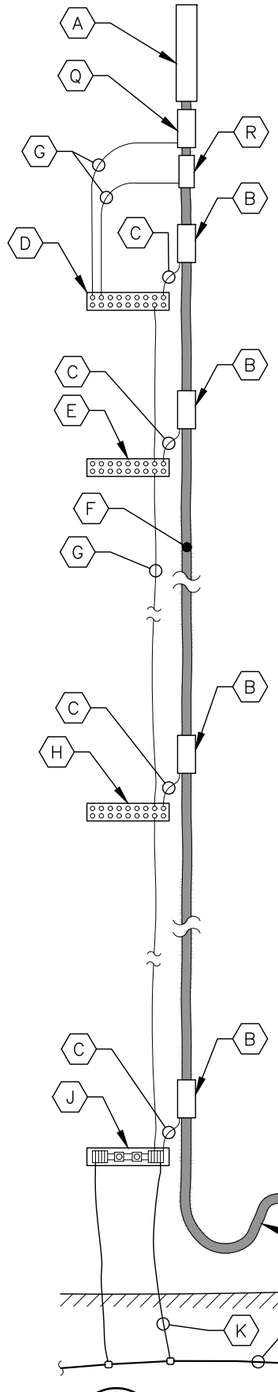
KEY NOTES - ELECTRICAL EQUIPMENT

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

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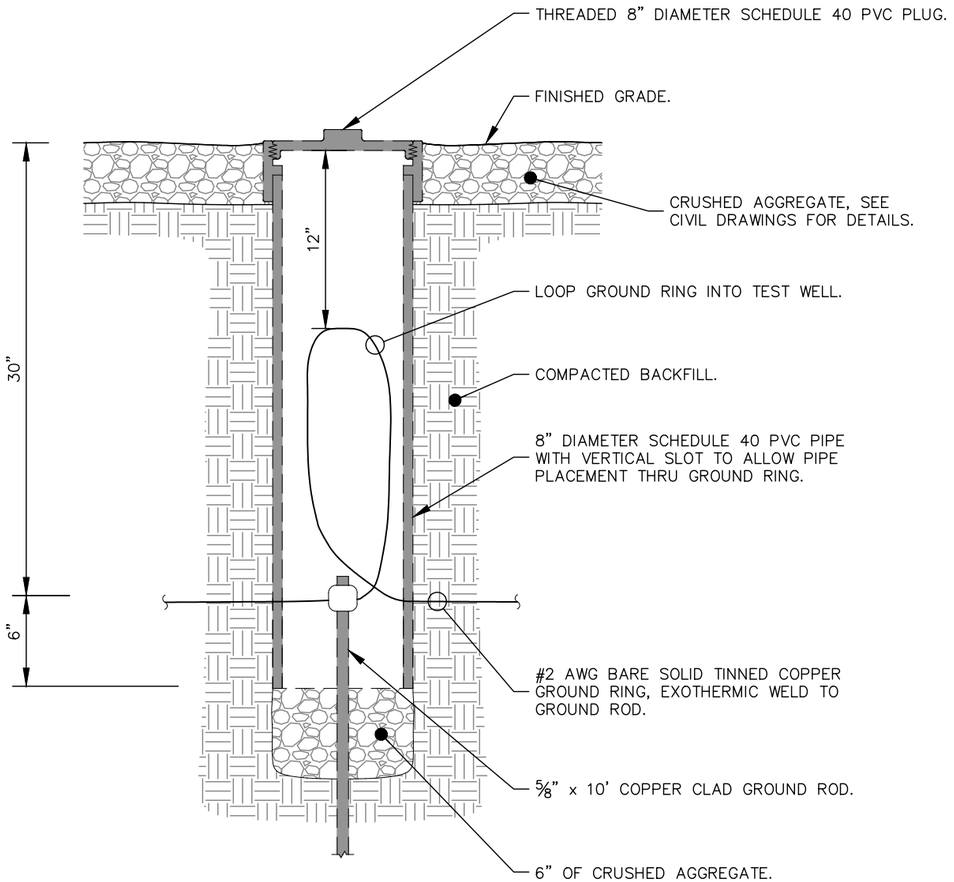
SHEET TITLE: GROUNDING SINGLE LINE DIAGRAM

SHEET NUMBER: E10

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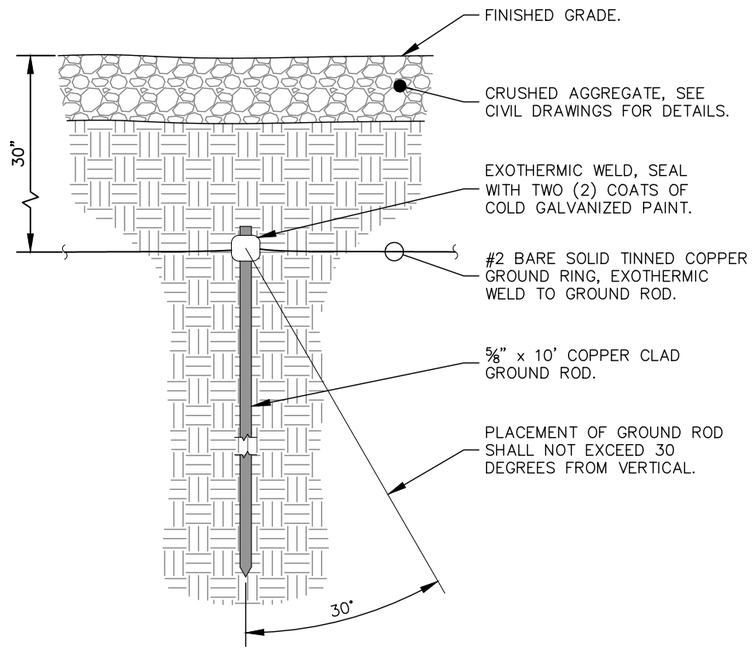
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1 E11 GROUND ROD TEST WELL DETAIL

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2 E11 GROUND ROD INSTALLATION DETAIL

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PROJECT INFORMATION:

SITE NAME:
VERIZON_ONE_DRAN_RELO
MDG LOCATION ID: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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0	08/12/26	CONSTRUCTION	TRN
A	07/16/26	PRELIMINARY	TRN

LICENSER:

GEORGIA REGISTERED No. PE050297 PROFESSIONAL ENGINEER TREVOR ROBERT NEWTON

KHA PROJECT NUMBER:
013509546

DRAWN BY:	CHECKED BY:
JW	TRN

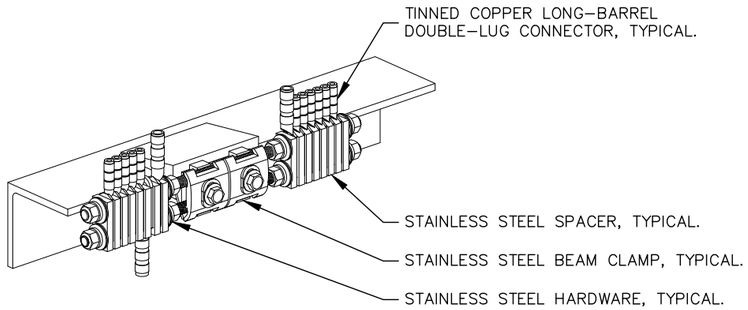
SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
E11

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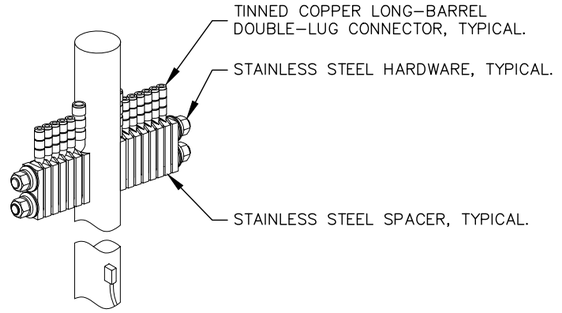
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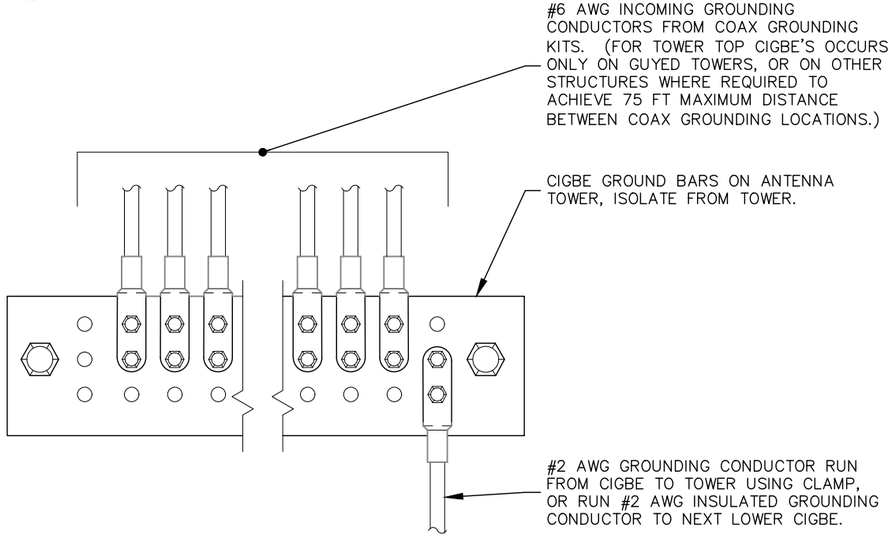
1 E12 BAR NONE GROUNDED BEAM CLAMP (TDSGA-BC14)

NOT TO SCALE



2 E12 BAR NONE POST MOUNTED (TDSGA-PA14)

NOT TO SCALE



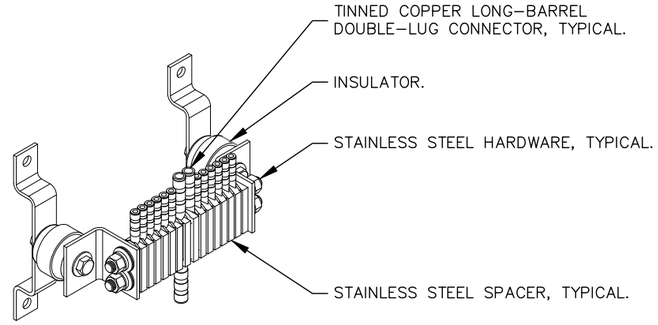
3 E12 ANTENNA GROUND WIRE INSTALLATION DETAIL

NOT TO SCALE

NOTES:

1. ALL CIGBE GROUND BARS ON TOWER ARE TO BE ERICO TDSGA. TYPICALLY USE TDSGA-WB17 ISOLATED FROM UNISTRUT BRACKET.

2. IF CIGBE CANNOT BE CONNECTED TO TOWER WITH #2 AWG GROUNDING CONDUCTOR, VIA CLAMP OR EXOTHERMIC WELD, THEN RUN #2 AWG BLACK GROUND LEAD FROM CIGBE DOWN TO NEXT LOWER CIGBE. SECURE GROUND LEAD WITH NON-METALIC TIES AT SAME SPACING AS COAX SUPPORTS.



4 E12 BAR NONE INSULATED (TDSGA-WB17)

NOT TO SCALE

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

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PROFESSIONAL
ENGINEER
TREVOR ROBERT NEWTON

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SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

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1 / C1 OVERALL PARCEL PLAN

SCALE: 1" = 100'

NORTH

0 50 100 200

GRAPHIC SCALE: 1" = 100'

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

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VERIZON ONE DRAN TOW
MDG LOCATION ID.: 5000970930

1 VERIZON PLACE
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FULTON COUNTY

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KHA PROJECT NUMBER:
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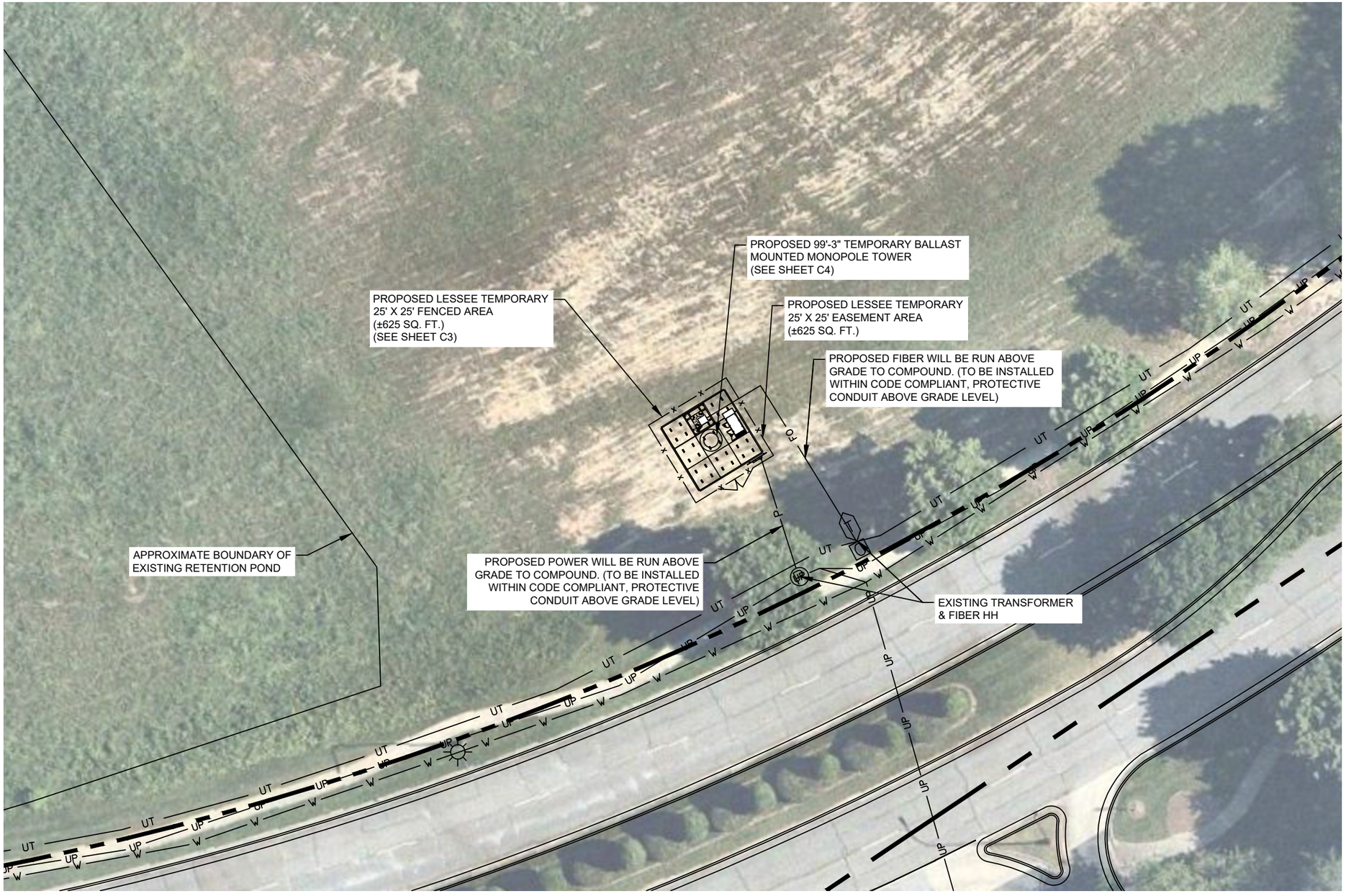
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OVERALL PARCEL PLAN

SHEET NUMBER:
C1

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1/C2 OVERALL SITE PLAN

SCALE: 1" = 30'

NORTH

0 15 30 60

GRAPHIC SCALE: 1" = 30'

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:
VERIZON ONE DRAN TOW
MDG LOCATION ID.: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

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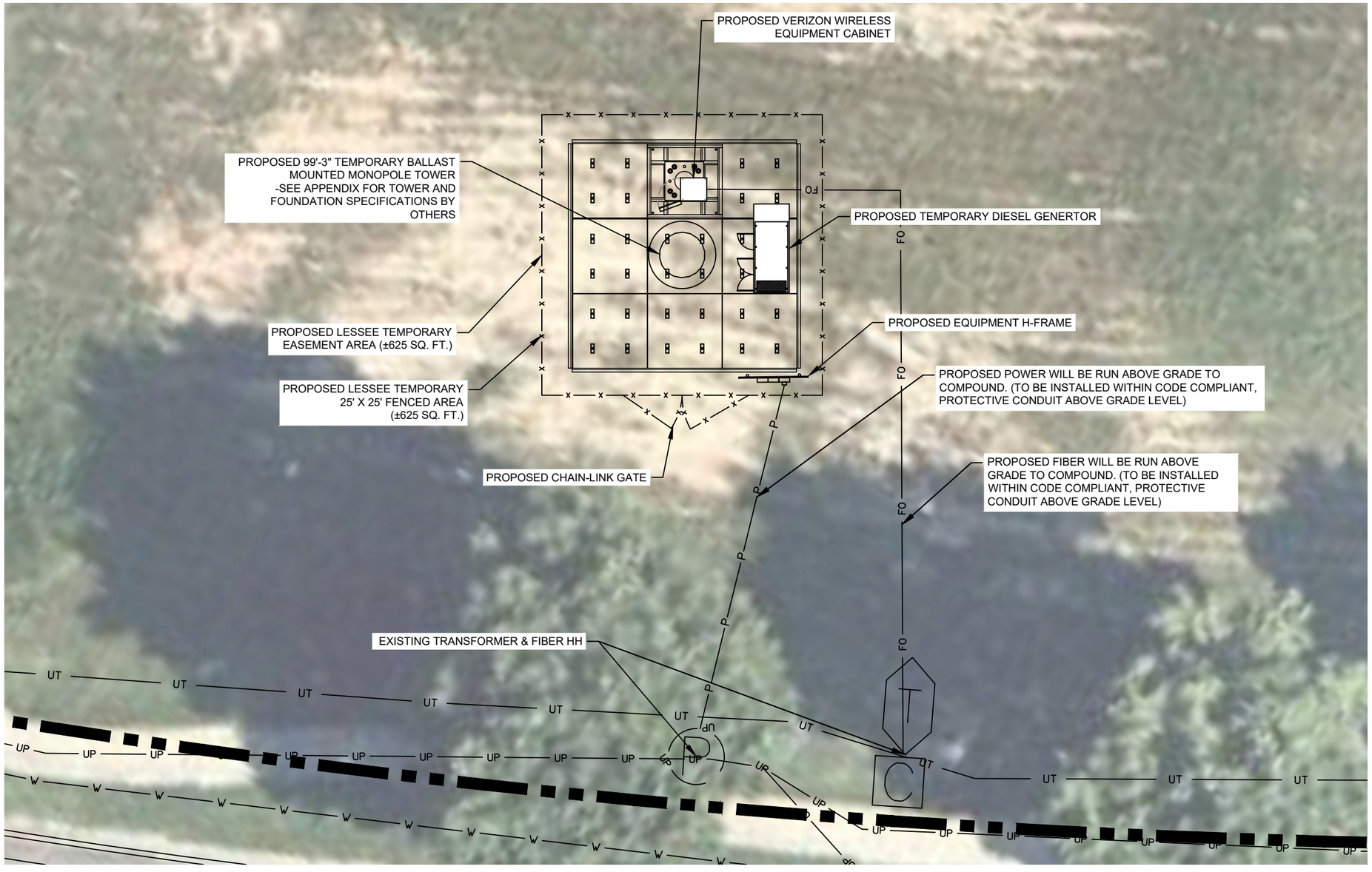
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OVERALL SITE PLAN

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1 / C3 SITE PLAN

SCALE: 1" = 10'

NORTH

0 5 10 20

GRAPHIC SCALE: 1" = 10'

verizon

10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

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VERIZON ONE DRAN TOW
MDG LOCATION ID.: 5000970930

1 VERIZON PLACE
MILTON, GA 30004
FULTON COUNTY

PLANS PREPARED BY:

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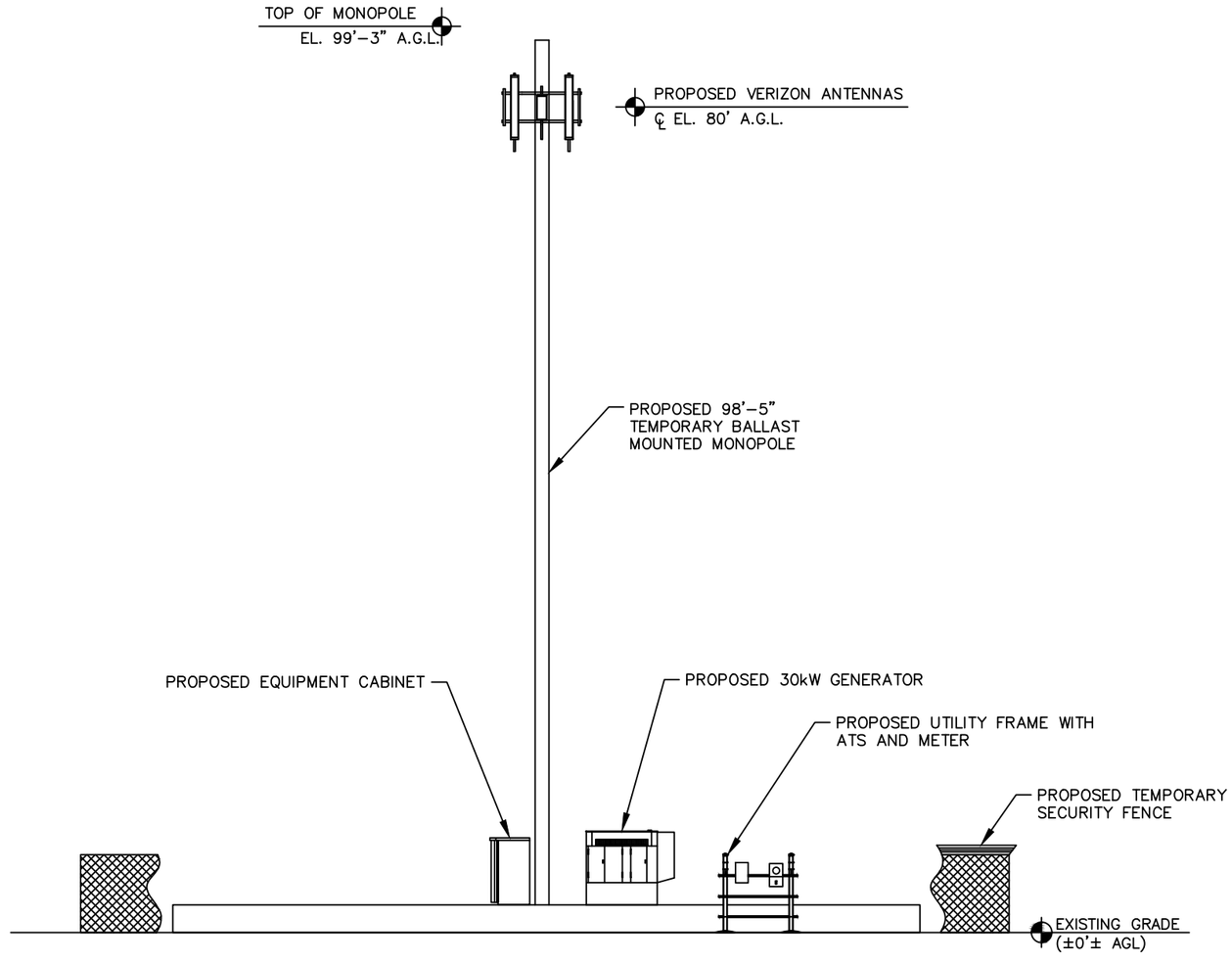
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SITE PLAN

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1 / C4 TEMPORARY TOWER ELEVATION

NOT TO SCALE

NOTES:

1. ALL PROPOSED ATTACHMENTS TO TOWER BASED ON STRUCTURAL ANALYSIS BY OTHERS.
2. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
3. PROPOSED ANTENNAS WILL BE LIGHT GRAY IN COLOR
4. REFER TO STRUCTURAL ANALYSIS (BY OTHERS) FOR THE TOWER, FOUNDATION, AND SUPPORTING SOIL CALCULATIONS.

NOTE:
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.

verizon
10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

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MDG LOCATION ID.: 5000970930

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SHEET TITLE:
TEMPORARY TOWER ELEVATION

SHEET NUMBER:
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