

# POND FORK

## Propagation Maps

**Victor G Mata**

**RF Design Engineer**

**February 13<sup>th</sup> 2024**

**\*Not for public distribution**



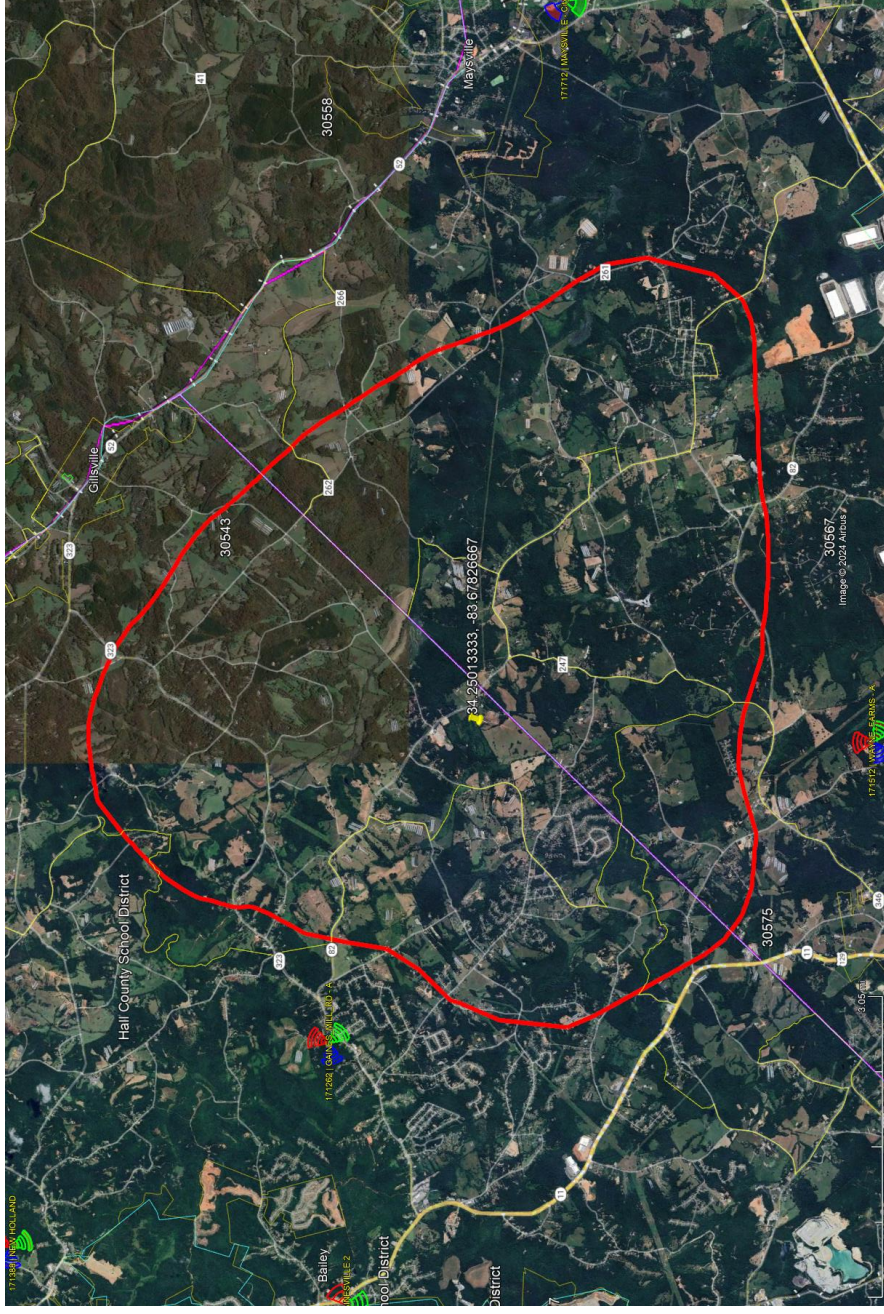
# Search Area & Coverage Objective

**VZ Proposed Location**  
34.2501333, -83.6782667

4410 Holly Springs Road,  
Gillsville, GA 30543

## Objective

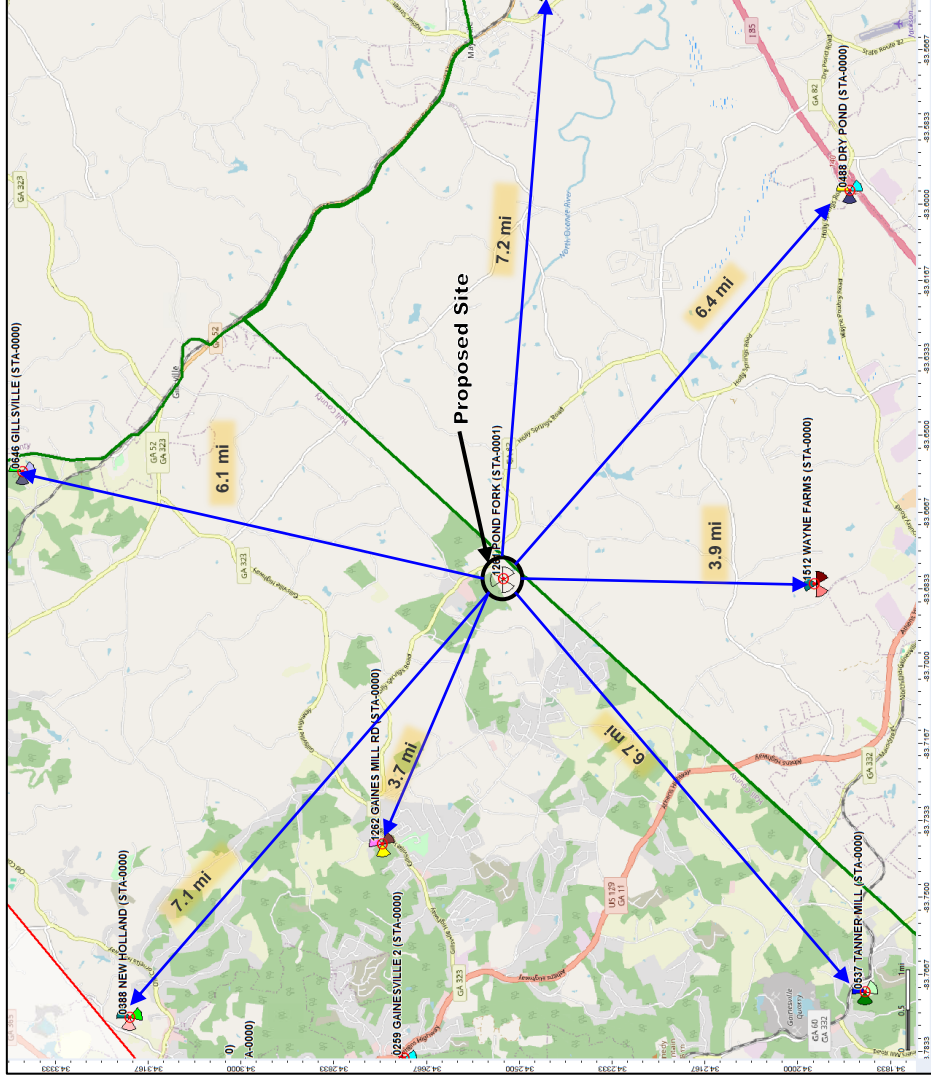
Service improvements are targeted within the red polygon. Current coverage in this area is mostly limited to vehicular or outdoor usage. Indoor-coverage is marginal. The proposed site will allow Verizon to improve the reliability of service to businesses and customers residing along GA State Route 82 N (Holly Springs Rd), Harmony Church Rd, 3 Bridges Rd, Bryant Quarter Rd, GA State Route 323 (Gillsville Hwy) & other streets within the desired service area.



# Distance of proposed site to existing VZ neighboring sites

**VZ Proposed Location**  
34.2501333, -83.6782667

4410 Holly Springs Road,  
Gillsville, GA 30543

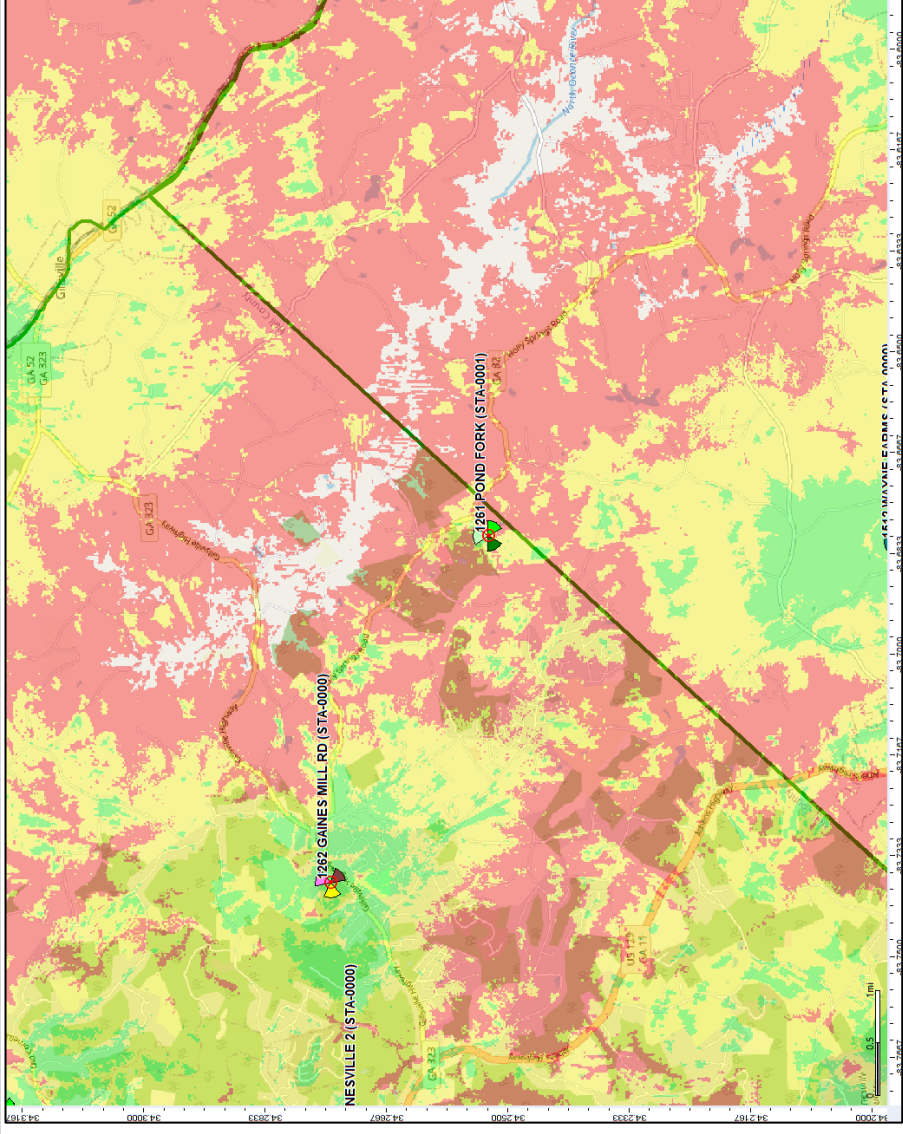




# Current Coverage Prediction

**Legend**

- Green = Best Coverage
- Yellow = Good Coverage
- Red = Fair Coverage



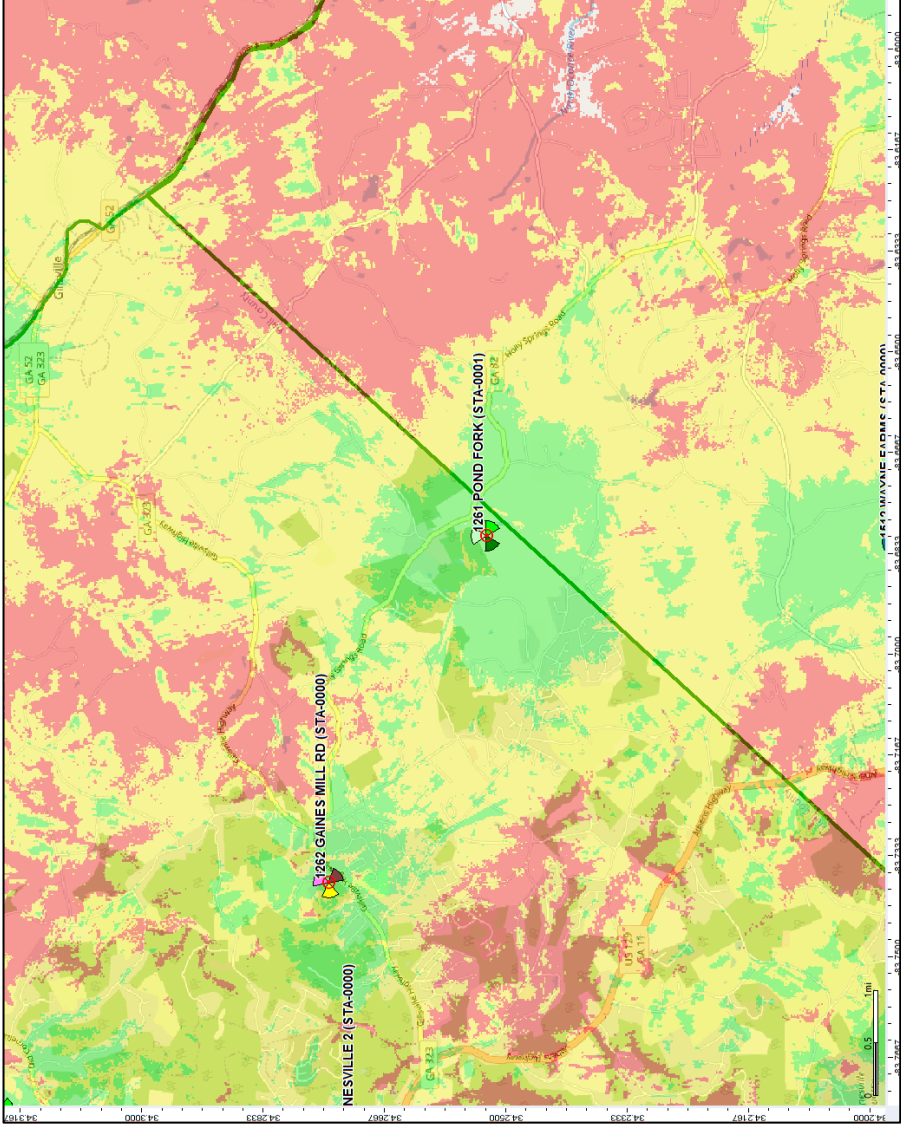
Verizon confidential and proprietary. Unauthorized disclosure, reproduction or other use prohibited.



# Coverage Prediction with site at VZ proposed location (250' CL)

## Legend

- Green = Best Coverage
- Yellow = Good Coverage
- Red = Fair Coverage



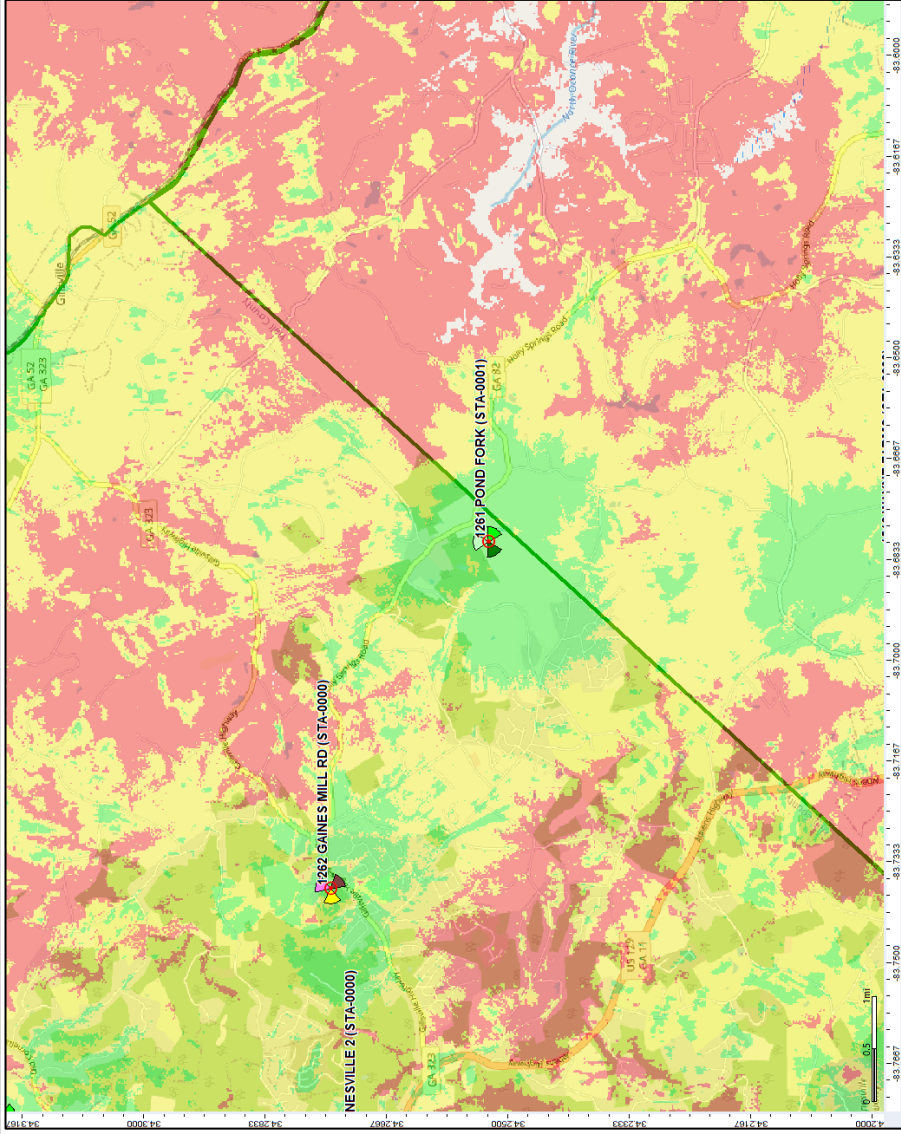
# Coverage Prediction with site at VZ proposed location (190' CL)

**Legend**

- Green = Best Coverage
- Yellow = Good Coverage
- Red = Fair Coverage

There is significant deterioration in coverage when compared to the previous slide, especially along GA State Route 323, Holy Springs Rd, Bob Bryant Rd and Cobb Griffin Rd.

A centerline of 250' is the ideal height to place antennas to provide adequate coverage with in the desired service area.



# Verizon Legal Disclaimer

*These maps are not a guarantee of coverage and may contain areas with no service. These maps reflect a depiction of predicted and approximate wireless coverage of the network and is intended to provide a relative comparison of coverage. The depictions of coverage do not guarantee service availability as there are many factors that can influence coverage and service availability. These factors vary from location to location and change over time. The coverage areas may include locations with limited or no coverage. Even within a coverage area shown, there are many factors, including but not limited to, usage volumes, service outages, customer's equipment, terrain, proximity to buildings, foliage, and weather that may impact service ("Factors"). The representations of "fair", "good" and "best" are qualitative representations of relative wireless outdoor signal strength at the network facilities level. Generally, calls can be made and received within all three categories, however, these Factors will likely have greater impact in areas of "fair" coverage. You can only make and receive calls when digital service is available. [When digital service is not available your device will not operate or be able to make 911 calls.]*







10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

**PROJECT INFORMATION:**

**SITE NAME:**  
POND FORK  
**SITE No.:** 581347  
**FUZE PROJECT #:** 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

**PLANS PREPARED BY:**



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	03/06/24	CONSTRUCTION	DRC
2	01/26/22	CONSTRUCTION	DRC
1	08/31/21	CONSTRUCTION	DRC
0	05/18/21	CONSTRUCTION	DRC
A	04/29/21	PRELIMINARY	DRC

**LICENSER:**



**KHA PROJECT NUMBER:**

013509266

**DRAWN BY:**

TDM

**CHECKED BY:**

TRN

**SHEET TITLE:**

COVER SHEET

**SHEET NUMBER:**

T1

# verizon

10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GA 30022

POND FORK

SITE #: 581347

FUZE PROJECT ID: 16350691

**SITE ADDRESS (E-911 TBD)**

4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY  
LATITUDE: 34° 15' 00.39" N  
LONGITUDE: 83° 40' 41.94" W  
TAX/PIN #: 15002 000061

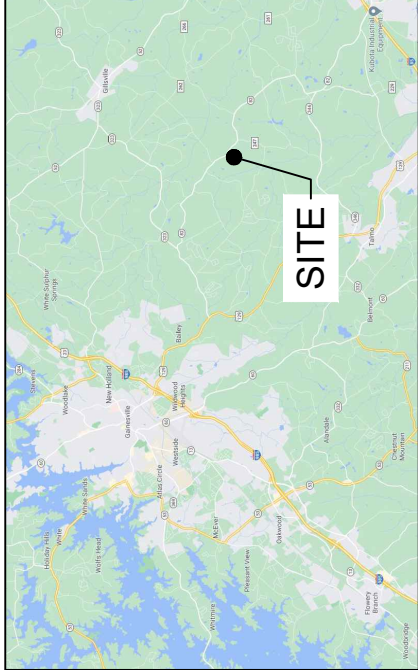
ZONING: AR-IV (AGRICULTURAL-RESIDENTIAL-IV DISTRICT)

**HALL COUNTY SHERIFF DEPARTMENT**

2859 BROWNS BRIDGE ROAD  
GAINESVILLE, GA 30504  
PHONE: (770) 531-6900  
ATTN.: CUSTOMER SERVICE

**HALL COUNTY FIRE DEPARTMENT**

470 CRESCENT DRIVE  
GAINESVILLE, GA 30501  
PHONE: (770) 531-6838  
ATTN.: CUSTOMER SERVICE



**VICINITY MAP**

FROM ALPHARETTA OFFICE: HEAD NORTH 381 FT; TURN RIGHT TOWARD OLD ALABAMA RD CON 82 FT; TURN LEFT AT THE 1ST CROSS STREET ONTO OLD ALABAMA RD CON 0.3 MI; TURN RIGHT ONTO MANSSELL RD 0.5 MI; USE THE LEFT 2 LANES TO TURN LEFT ONTO HAYNES BRIDGE RD 0.5 MI; CONTINUE STRAIGHT TO STAY ON HAYNES BRIDGE RD 0.4 MI; USE THE RIGHT LANE TO TAKE THE RAMP ONTO GA-400 N/US-19 N 0.5 MI; MERGE ONTO GA-400 N/US-19 N 11.7 MI; TAKE THE GA-20 E EXIT TOWARD BUFORD 0.2 MI; KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR STATE HWY 20 E AND MERGE ONTO GA-20 E/STATE HWY 20 E/BUFORD HWY 0.2 MI; MERGE ONTO GA-20 E/STATE HWY 20 E/BUFORD HWY 328 FT; KEEP RIGHT TO CONTINUE ON GA-20 E 8.9 MI; USE THE LEFT 2 LANES TO TURN LEFT ONTO PEACHTREE INDUSTRIAL BLVD 3.7 MI; CONTINUE ONTO MCEVER RD 1.0 MI; TURN RIGHT ONTO GA-347 E/FRIENDSHIP RD/LANIER ISLANDS PKWY 1.5 MI; TURN LEFT TO MERGE ONTO I-985 N 0.3 MI; MERGE ONTO I-985 N 12.8 MI; TAKE EXIT 22 TO MERGE ONTO US-129 S 3.3 MI; TURN LEFT ONTO GA-323 E 2.5 MI; SLIGHT RIGHT ONTO GA-82 S 3.8 MI. THE DESTINATION WILL BE ON THE RIGHT.

**DRIVING DIRECTIONS**

**JURISDICTION:**  
HALL COUNTY

**STATE:**  
GEORGIA

**TOWER TYPE:**  
SELF SUPPORT TOWER

**TOWER HEIGHT:**  
255' (265' TO HIGHEST APPURTENANCE)

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

**USE:**  
PROPOSED TELECOMMUNICATIONS TOWER AND UNMANNED EQUIPMENT

**FLOOD INFO**  
SITE IS LOCATED WITHIN FEMA FLOOD MAP AREA 13139C0225F DATED 09/29/2006 WITHIN FLOOD ZONE X.

**PROJECT SUMMARY**

**DEVELOPER**

VERIZON WIRELESS  
10300 OLD ALABAMA RD CON.  
ALPHARETTA, GA 30022  
PHONE: (678) 277-3612  
ATTN: MATT HARTLEY

**POWER COMPANY**  
JACKSON EMC  
PHONE: (770) 536-2415  
ATTN.: LUKE PARKER

**PROPERTY OWNER**  
LAZY L LAND AND CATTLE COMPANY, LLC  
3292 THOMPSON BRIDGE ROAD  
GAINESVILLE, GA 30506  
PHONE: (770) 530-8414  
ATTN.: MARK LINKESH

**CONSULTANT**  
KIMLEY-HORN AND ASSOCIATES, INC.  
11720 AMBER PARK DRIVE, SUITE 600  
ALPHARETTA, GA 30009  
PHONE: (678) 274-5032  
ATTN.: DAVID COUSINS, P.E.

**CONTACTS**

SHEET NO.	SHEET TITLE
T1	COVER SHEET
--	SITE SURVEY (SHEET 1 OF 7)
--	SITE SURVEY (SHEET 2 OF 7)
--	SITE SURVEY (SHEET 3 OF 7)
--	SITE SURVEY (SHEET 4 OF 7)
--	SITE SURVEY (SHEET 5 OF 7)
--	SITE SURVEY (SHEET 6 OF 7)
--	SITE SURVEY (SHEET 7 OF 7)
N1	GENERAL NOTES
C0	OVERALL PARCEL PLAN
C1	OVERALL SITE PLAN
C2	SITE PLAN
C3	EQUIPMENT PAD LAYOUT
C4	EQUIPMENT RACK DETAIL - FRONT
C5	EQUIPMENT RACK DETAIL - REAR
C6	CONCRETE PAD FOUNDATION DETAILS
C7	FENCE, GATE AND COMPOUND DETAILS
C8	GRADING AND EROSION CONTROL PLAN
C8.1	GRADING AND EROSION CONTROL PLAN
C8.2	GRADING AND EROSION CONTROL PLAN
C9	GRADING AND EROSION CONTROL DETAILS
C10	ACCESS ROAD DETAILS
C11	SITE SIGNAGE DETAILS
C12	WAVEGUIDE BRIDGE DETAILS
C13	ANTENNA AND TOWER ELEVATION DETAILS
L1	LANDSCAPING PLAN
E1	ELECTRICAL NOTES
E2	UTILITY SERVICE ROUTING PLAN
E3	OVERALL 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	

**HALL COUNTY PLANNING & DEVELOPMENT**  
2875 BROWNS BRIDGE ROAD, 3RD FLOOR  
GAINESVILLE, GA 30504  
PHONE: 770) 531-6809  
ATTN.: CUSTOMER SERVICE

**PERMIT INFORMATION**

## 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: this survey does not relieve design and construction personnel of the responsibility to determine the locations of underground utilities prior to land disturbance activities.
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 (are accurate to within  $\pm 20$  feet horizontally and to within  $\pm 3$  feet vertically).
9. Any Flood Zone information presented hereon is according to current FEMA Flood Map information as may be referenced hereon. No Flood Elevation Survey or Certification performed. This survey is not valid without the original signature and the original seal of a State-Licensed Land Surveyor, and is not complete without the total of sheets as specified in Survey Title Blocks.

## SURVEYOR'S CERTIFICATION:

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.



Surveyed by Thomas A. Dobson  
Georgia RLS No. 2205  
Georgia COA No. LSF001190

## PROPOSED TOWER LOCATION DATA

Latitude: NORTH: 34.250132° 34° 15' 00.48"  
Longitude: WEST: 83.678267° 83° 40' 41.76"  
Ground Elev: 915.5 FEET AMSL (NAVD88)  
Benchmark: DM7831 GABN

## PARENT TAX PARCEL

LAZY L LAND AND CATTLE COMPANY, LLC  
TAX PARCEL: 15002 000061  
SEE SHEET #2

## 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: 02-04-2021  
Method: RTK (CORS); Confidence Level: 95%  
Positional Accuracy: HZ  $\pm 0.10'$   
EPOCH 2010.00000

## FLOOD DATA

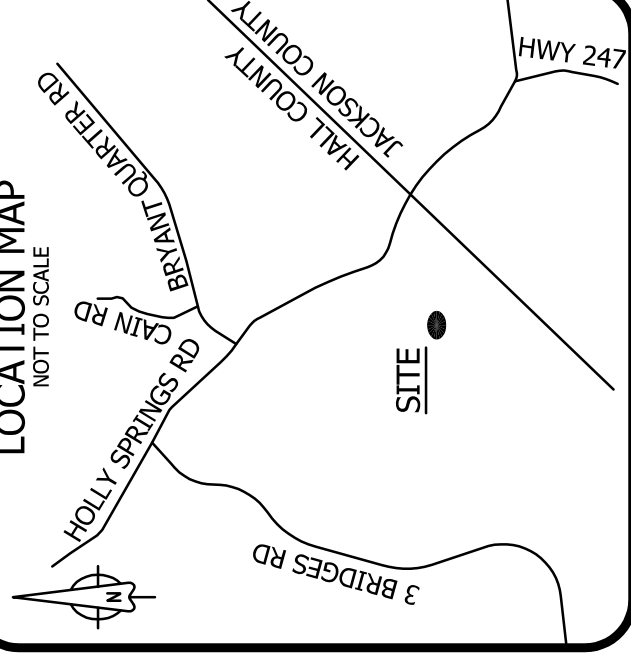
FEMA FLOOD MAP PANEL: 13139C0225F, Effective Date: 09-29-2006  
Surveyed Area appears to lie within: ZONE X (Areas of Minimal Flood Hazard)  
(Other portions of Parent Tax Parcel appear to lie within Special Flood Hazard Areas, shown where applicable per available FEMA information)

## TITLE EXAMINATION:

See Sheet #7

## LOCATION MAP

NOT TO SCALE

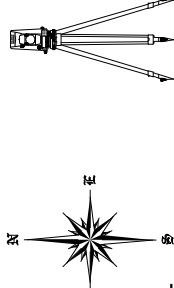


## LEGEND

●	IRON ROD FOUND
○	UTILITY POLE
└	GUY ANCHOR
□	TELECOM JUNCTION
◆	SITE BENCHMARK
*	PROPOSED TOWER CENTER
R/W	RIGHT-OF-WAY
AUF	ACCESS/UTILITY/FIBER
P.O.C.	POINT OF COMMENCEMENT
P.O.B.	POINT OF BEGINNING
ESMT	EASEMENT
Sq Ft	SQUARE FEET
———	PAVEMENT EDGE
———	UNPAVED ROAD EDGE
———	OVERHEAD UTILITY LINES
———	FENCE
———	DITCH
———	STORMWATER PIPE
———	5' CONTOURS
———	1' CONTOURS
———	PUBLIC R/W
———	TAX PARCEL LINE
———	FEMA ZONE BOUNDARY
———	LESSEE'S EASEMENT
———	LESSEE'S PREMISES

## SURVEY RELEASE DATA

#	DETAILS	DATE	DRAWN	APP
0	Original Survey Issue	02-10-2021	DLH	TAD
1	Title Examination	02-16-2021	DLH	TAD
2	Additional Title Exam	03-16-2021	NB	TAD



THE  
LAND CONSULTANTS  
LLC  
5449 Highway #41  
Jasper, TN 37347  
(423) 304-6722  
Georgia C.O.A. No. LSF001190

PREPARED FOR

**verizon**

VERIZON WIRELESS

## SPECIAL PURPOSE SURVEY

SITE NAME:

**POND FORK**

Location Code: 581347

Holly Springs Road, Gillsville, GA 30543

Tadmore District, 268 G.M.D.  
Hall County, Georgia

DWG#: 21011  
ISSUE #: 2  
ISSUE DATE: 03-16-2021  
SEE SHEET #1

**COVER SHEET**

SHEET 1 OF 7



## PROPERTY INFORMATION

### PARENT TAX PARCEL

- A. LAZY L LAND AND CATTLE COMPANY, LLC.  
TAX PARCEL: 15002 000061  
DEED BOOK 8192, PAGE 384  
PLAT BOOK 876, PAGE 244

NOTE: Parent "Tax Parcel" is a portion of a contiguous extent of land conveyed to LAZY L LAND AND CATTLE COMPANY, LLC. by a deed record as Deed 8182-384 (Hall County), Deed 83H-004A (Jackson County), and of record on a Plat recorded as Plat 876-244 (Hall County), Plat 71-722 (Jackson County). The property is divided into three "TAX PARCELS":

- A. TAX PARCEL: 15002 000061 (HALL COUNTY)
- B. TAX PARCEL: 15002 000007 (HALL COUNTY)
- C. TAX PARCEL: 098 004A (JACKSON COUNTY)

"Setbacks" may apply as measured from "Tax Parcel" Lines, as decided by jurisdictions having authority, not addressed herein.

### ADJOINING TAX PARCELS (HALL COUNTY)

- D. LAZY L LAND AND CATTLE COMPANY, LLC.  
TAX PARCEL: 15002 00007A  
DEED BOOK 8394, PAGE 647

- E. GREGORY L. GENSEL, JR.  
TAX PARCEL: 15002 000050  
DEED BOOK 6729, PAGE 27  
PLAT BOOK 676, PAGE 97B

- F. JACK LATTIMER  
TAX PARCEL: 15002 000027  
DEED BOOK 1509, PAGE 99

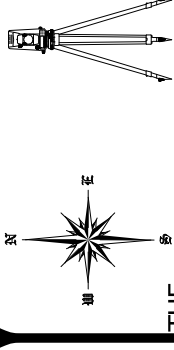
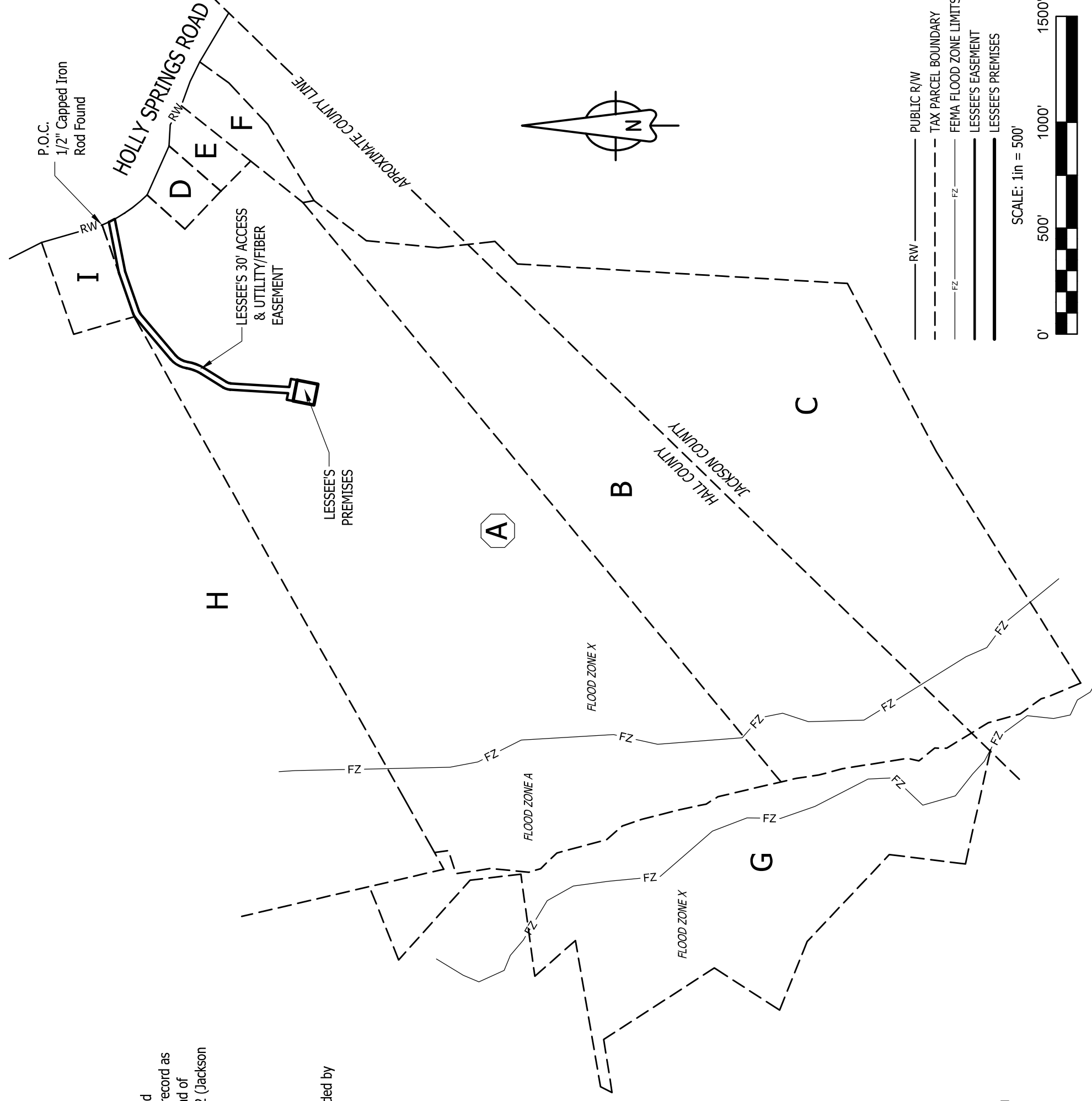
- G. JOSE A. ARTEAGA  
TAX PARCEL: 15011 000073  
DEED BOOK 7174, PAGE 110  
PLAT BOOK 107, PAGE 155

- H. HOLLY PIG FARM ...  
TAX PARCEL: 15002 000008  
DEED BOOK 7664, PAGE 11  
PLAT BOOK 72, PAGE 200

- I. JOHN W. LIPSCOMB, JR. ...  
TAX PARCEL: 15002 000008A  
DEED BOOK 1692, PAGE 91

#### VICINITY/LOCATION MAP CAVEAT:

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.



THE  
LAND CONSULTANTS  
LLC  
5449 Highway #41  
Jasper, TN 37347  
(423) 304-6722  
Georgia C.O.A. No. LSF001190

PREPARED FOR

**verizon**

VERIZON WIRELESS

## SPECIAL PURPOSE SURVEY

SITE NAME:

**POND FORK**

Location Code: 581347

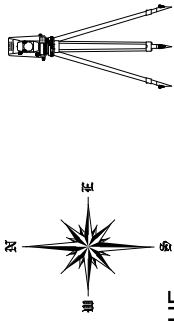
Holly Springs Road, Gillsville, GA 30543

Tadmire District, 268 G.M.D.  
Hall County, Georgia

DWG#: 21011  
ISSUE #: 2  
ISSUE DATE: 03-16-2021  
SEE SHEET #1

## OVERVIEW

SHEET 2 OF 7



THE  
LAND CONSULTANTS  
LLC  
5449 Highway #41  
Jasper, TN 37347  
(423) 304-6722  
Georgia C.O.A. No. LSF001190

PREPARED FOR



VERIZON WIRELESS

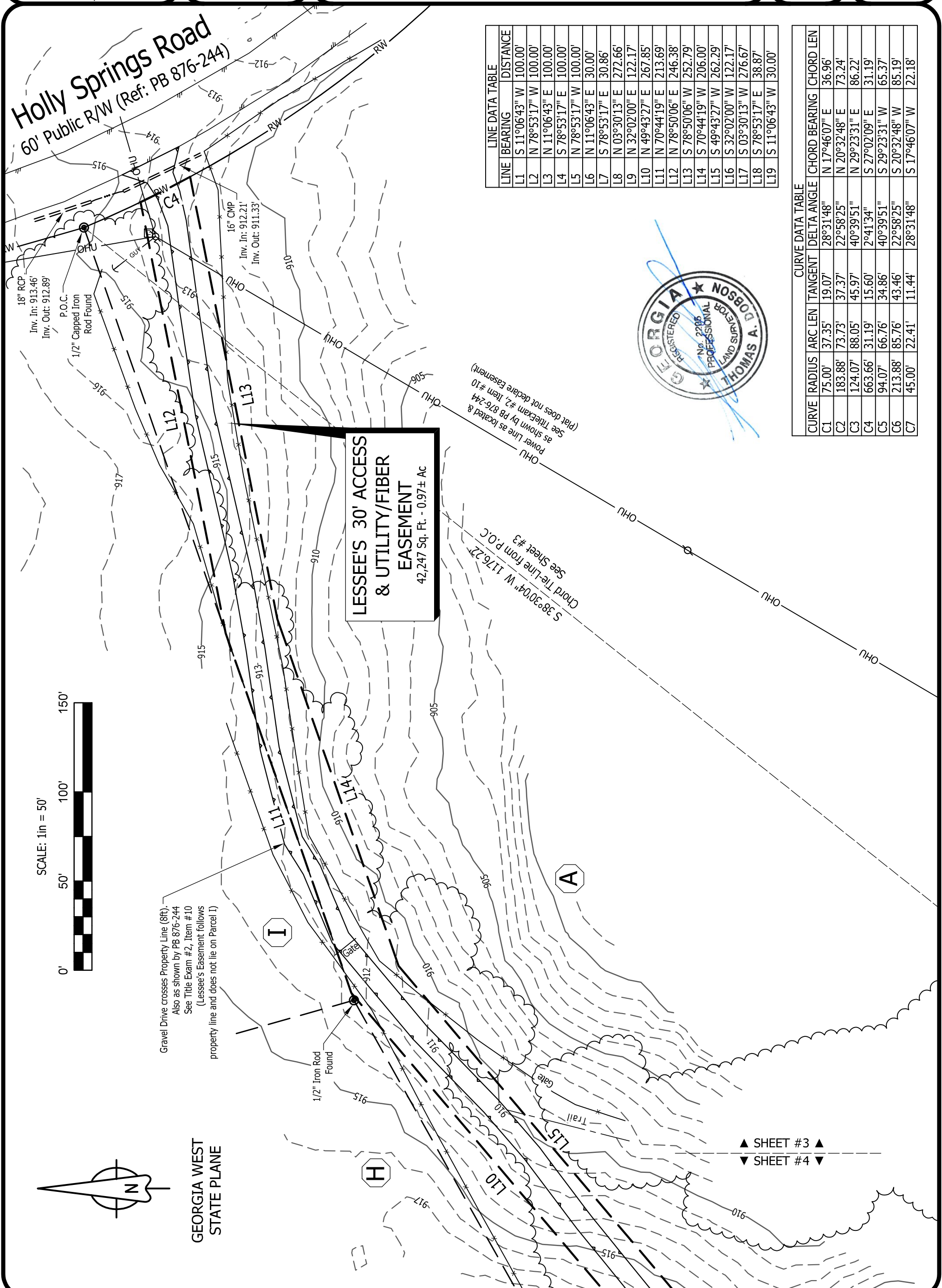
SITE NAME:  
**POND FORK**  
SPECIAL PURPOSE SURVEY  
Location Code: 581347  
Holly Springs Road, Gillsville, GA 30543  
Tadmore District, 268 G.M.D.  
Hall County, Georgia

DWG#: 21011  
ISSUE #: 2  
ISSUE DATE: 03-16-2021  
SEE SHEET #1

**SITE SURVEY**

SHEET 3 OF 7

Holly Springs Road  
60' Public R/W (Ref: PB 876-244)



LINE	BEARING	DISTANCE
L1	S 11°06'43" W	100.00'
L2	N 78°53'17" W	100.00'
L3	N 11°06'43" E	100.00'
L4	S 78°53'17" E	100.00'
L5	N 78°53'17" W	100.00'
L6	N 11°06'43" E	30.00'
L7	S 78°53'17" E	30.86'
L8	N 03°30'13" E	272.66'
L9	N 32°02'00" E	122.17'
L10	N 49°43'27" E	267.85'
L11	N 70°44'19" E	213.69'
L12	N 78°50'06" E	246.38'
L13	S 78°50'06" W	252.79'
L14	S 70°44'19" W	206.00'
L15	S 49°43'27" W	262.29'
L16	S 32°02'00" W	122.17'
L17	S 03°30'13" W	276.67'
L18	S 78°53'17" E	38.87'
L19	S 11°06'43" W	30.00'

CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING	CHORD LEN
C1	75.00'	37.35'	19.07'	28°31'48"	N 17°46'07" E	36.96'
C2	183.88'	73.73'	37.37'	22°58'25"	N 20°32'48" E	73.24'
C3	124.07'	88.05'	45.97'	40°39'51"	N 29°23'31" E	86.22'
C4	663.66'	31.19'	15.60'	2°41'34"	S 27°02'09" E	31.19'
C5	94.07'	66.76'	34.86'	40°39'51"	S 29°23'31" W	65.37'
C6	213.88'	85.76'	43.46'	22°58'25"	S 20°32'48" W	85.19'
C7	45.00'	22.41'	11.44'	28°31'48"	S 17°46'07" W	22.18'



**LESSEE'S 30' ACCESS  
& UTILITY/FIBER  
EASEMENT**  
42,247 Sq. Ft. - 0.97± Ac

OHU Line as located & shown by PB 876-244 (See Title Exam #2, Item #10 (Plat does not declare Easement))

OHU 506

OHU 910

OHU 915

OHU 916

OHU 917

OHU 918

OHU 919

OHU 920

OHU 921

OHU 922

OHU 923

OHU 924

OHU 925

OHU 926

OHU 927

OHU 928

OHU 929

OHU 930

OHU 931

OHU 932

OHU 933

OHU 934

OHU 935

OHU 936

OHU 937

OHU 938

OHU 939

OHU 940

OHU 941

OHU 942

OHU 943

OHU 944

OHU 945

OHU 946

OHU 947

OHU 948

OHU 949

OHU 950

OHU 951

OHU 952

OHU 953

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OHU 967

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OHU 969

OHU 970

OHU 971

OHU 972

OHU 973

OHU 974

OHU 975

OHU 976

OHU 977

OHU 978

OHU 979

OHU 980

OHU 981

OHU 982

OHU 983

OHU 984

OHU 985

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OHU 990

OHU 991

OHU 992

OHU 993

OHU 994

OHU 995

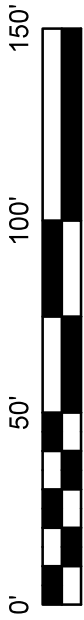
OHU 996

OHU 997

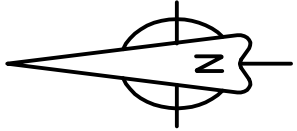
OHU 998

OHU 999

OHU 1000



SCALE: 1in = 50'



GEORGIA WEST  
STATE PLANE

Gravel Drive crosses Property Line (8ft.)  
Also as shown by PB 876-244  
See Title Exam #2, Item #10  
(Lessee's Easement follows  
property line and does not lie on Parcel 1)

1/2" Iron Rod Found

16" CMP  
Inv. In: 912.21'  
Inv. Out: 911.33'

18" RCP  
Inv. In: 913.46'  
Inv. Out: 912.89'

P.O.C.  
1/2" Capped Iron Rod Found

A

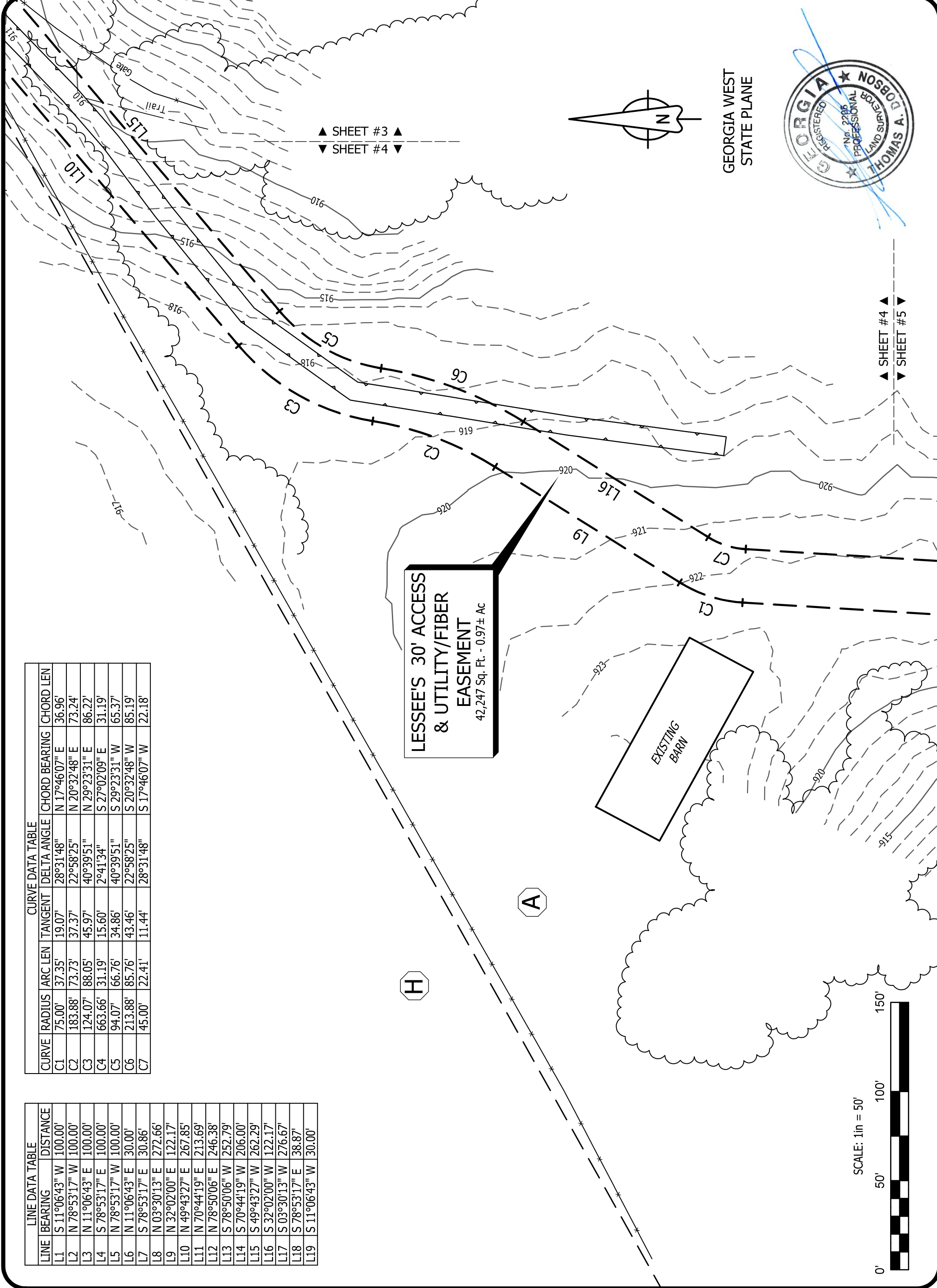
H

I

▲ SHEET #3 ▲  
▼ SHEET #4 ▼

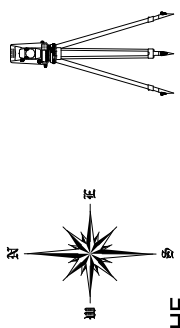
LINE	BEARING	DISTANCE
L1	S 11°06'43" W	100.00'
L2	N 78°53'17" W	100.00'
L3	N 11°06'43" E	100.00'
L4	S 78°53'17" E	100.00'
L5	N 78°53'17" W	100.00'
L6	N 11°06'43" E	30.00'
L7	S 78°53'17" E	30.86'
L8	N 03°30'13" E	272.66'
L9	N 32°02'00" E	122.17'
L10	N 49°43'27" E	267.85'
L11	N 70°44'19" E	213.69'
L12	N 78°50'06" E	246.38'
L13	S 78°50'06" W	252.79'
L14	S 70°44'19" W	206.00'
L15	S 49°43'27" W	262.29'
L16	S 32°02'00" W	122.17'
L17	S 03°30'13" W	276.67'
L18	S 78°53'17" E	38.87'
L19	S 11°06'43" W	30.00'

CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING	CHORD LEN
C1	75.00'	37.35'	19.07'	28°31'48"	N 17°46'07" E	36.96'
C2	183.88'	73.73'	37.37'	22°58'25"	N 20°32'48" E	73.24'
C3	124.07'	88.05'	45.97'	40°39'51"	N 29°23'31" E	86.22'
C4	663.66'	31.19'	15.60'	2°41'34"	S 27°02'09" E	31.19'
C5	94.07'	66.76'	34.86'	40°39'51"	S 29°23'31" W	65.37'
C6	213.88'	85.76'	43.46'	22°58'25"	S 20°32'48" W	85.19'
C7	45.00'	22.41'	11.44'	28°31'48"	S 17°46'07" W	22.18'



▲ SHEET #3 ▲  
▼ SHEET #4 ▼

▲ SHEET #4 ▲  
▼ SHEET #5 ▼



THE  
**LAND CONSULTANTS**  
LLC  
5449 Highway #41  
Jasper, TN 37347  
(423) 304-6722  
Georgia C.O.A. No. LSF001190

PREPARED FOR  
**verizon**  
VERIZON WIRELESS

**SPECIAL PURPOSE SURVEY**  
**POND FORK**  
SITE NAME:  
Location Code: 581347  
Holly Springs Road, Gillsville, GA 30543  
Tadmore District, 268 G.M.D.  
Hall County, Georgia

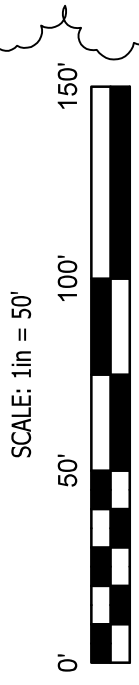


DWG#: 21011  
ISSUE #: 2  
ISSUE DATE: 03-16-2021  
SEE SHEET #1

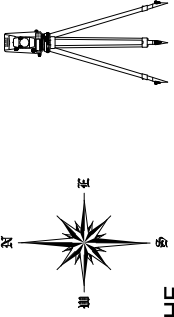
**SITE SURVEY**

SHEET 4 OF 7

GEORGIA WEST  
STATE PLANE







THE  
**LAND CONSULTANTS**  
 LLC  
 5449 Highway #41  
 Jasper, TN 37347  
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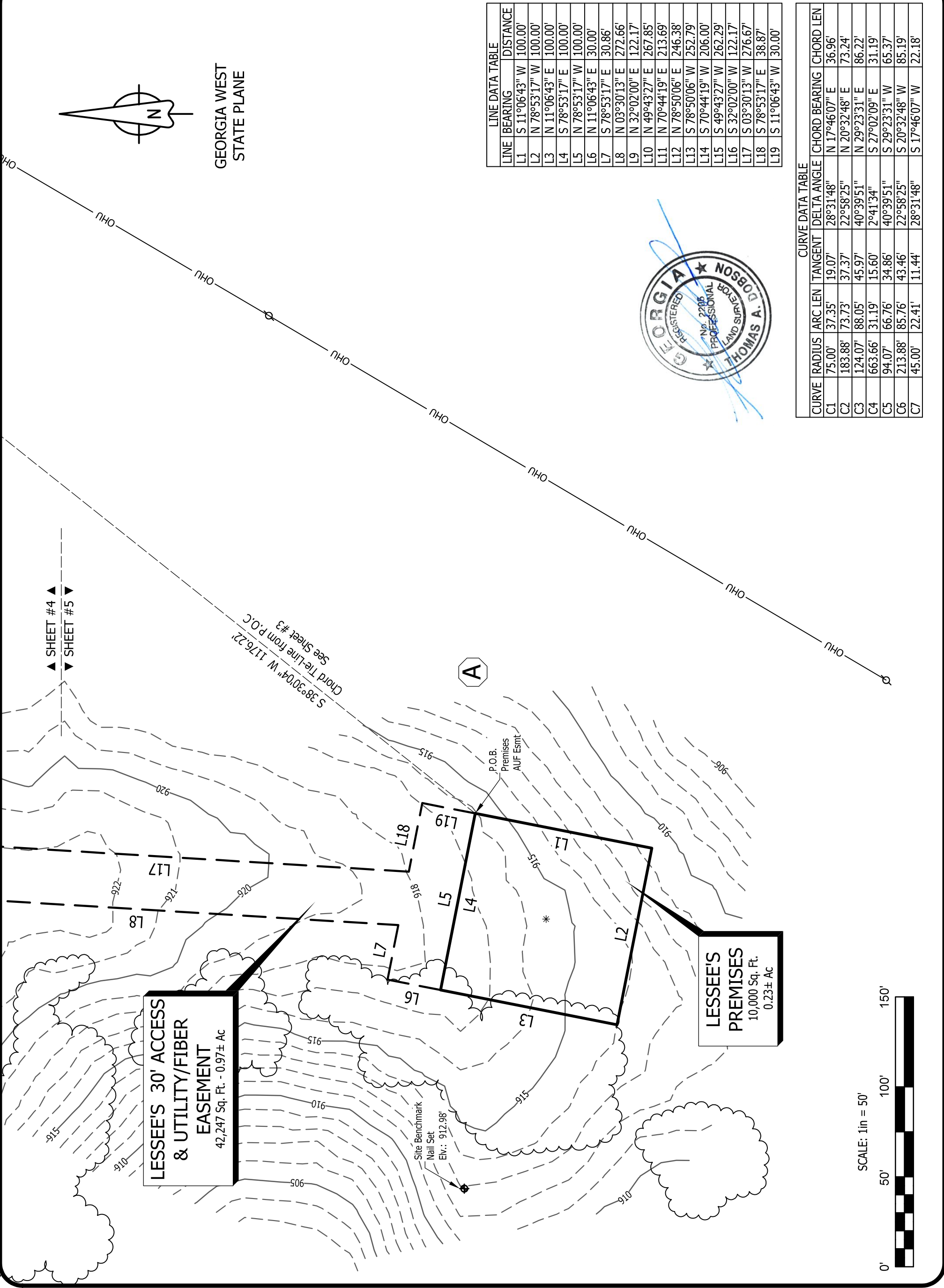
VERIZON WIRELESS

**SPECIAL PURPOSE SURVEY**  
 SITE NAME:  
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 Holly Springs Road, Gillsville, GA 30543  
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 Hall County, Georgia

DWG#: 21011  
 ISSUE #: 2  
 ISSUE DATE: 03-16-2021  
 SEE SHEET #1

**SITE SURVEY**

SHEET 5 OF 7



LINE DATA TABLE	
LINE	DISTANCE
L1	100.00'
L2	100.00'
L3	100.00'
L4	100.00'
L5	100.00'
L6	30.00'
L7	30.86'
L8	272.66'
L9	122.17'
L10	267.85'
L11	213.69'
L12	246.38'
L13	252.79'
L14	206.00'
L15	262.29'
L16	122.17'
L17	276.67'
L18	38.87'
L19	30.00'

CURVE DATA TABLE						
CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING	CHORD LEN
C1	75.00'	37.35'	19.07'	28°31'48"	N 17°46'07" E	36.96'
C2	183.88'	73.73'	37.37'	22°58'25"	N 20°32'48" E	73.24'
C3	124.07'	88.05'	45.97'	40°39'51"	N 29°23'31" E	86.22'
C4	663.66'	31.19'	15.60'	2°41'34"	S 27°02'09" E	31.19'
C5	94.07'	66.76'	34.86'	40°39'51"	S 29°23'31" W	65.37'
C6	213.88'	85.76'	43.46'	22°58'25"	S 20°32'48" W	85.19'
C7	45.00'	22.41'	11.44'	28°31'48"	S 17°46'07" W	22.18'



## LESSEE'S PREMISES

All that Tract or Parcel of land lying and being in the Tadmore District, 268 G.M.D., Hall County, Georgia, and being a part of the lands owned by Lazy L Land and Cattle Company, LLC., of record in Deed Book 8192, Page 384, Plat Book 876, Page 244, Clerk's Office, Hall County, Georgia, and being more particularly described as follows:

COMMENCE at a one-half-inch Capped Iron Rod Found on the Southwestern Right-of-Way of Holly Springs Road, at the most Northern Corner of aforesaid Property;

Thence along a Chord Tie Line having a Bearing of N 38°30'04" E, a distance of 1,176.22 feet to the POINT OF BEGINNING;

Thence S 11°06'43" W, a distance of 100.00 feet;

Thence N 78°53'17" W, a distance of 100.00 feet;

Thence N 11°06'43" E, a distance of 100.00 feet;

Thence S 78°53'17" E, a distance of 100.00 feet to the POINT OF BEGINNING.

Said tract contains 0.23 Acres (10,000 Square Feet), more or less.

## LESSEE'S 30' ACCESS & UTILITY/FIBER EASEMENT

All that Tract or Parcel of land lying and being in the Tadmore District, 268 G.M.D., Hall County, Georgia, and being a part of the lands owned by Lazy L Land and Cattle Company, LLC., of record in Deed Book 8192, Page 384, Plat Book 876, Page 244, Clerk's Office, Hall County, Georgia, and being more particularly described as follows:

COMMENCE at a one-half-inch Capped Iron Rod Found on the Southwestern

Right-of-Way of Holly Springs Road, at the most Northern Corner of aforesaid Property;

Thence along a Chord Tie Line having a Bearing of N 38°30'04" E, a distance of 1,176.22 feet to the POINT OF BEGINNING;

Thence N 78°53'17" W, a distance of 100.00 feet;

Thence N 11°06'43" E, a distance of 30.00 feet;

Thence S 78°53'17" E, a distance of 30.86 feet;

Thence N 03°30'13" E, a distance of 272.66 feet;

Thence with a curve to the right with an arc length of 37.35 feet, with a radius of 75.00 feet, with a chord bearing of N 17°46'07" E, with a chord length of 36.96 feet;

Thence N 32°02'00" E, a distance of 122.17 feet;

Thence with a curve to the left with an arc length of 73.73 feet, with a radius of 183.88 feet, with a chord bearing of N 20°32'48" E, with a chord length of 73.24 feet;

Thence with a curve to the right with an arc length of 88.05 feet, with a radius of 124.07

feet, with a chord bearing of N 29°23'31" E, with a chord length of 86.22 feet;

Thence N 49°43'27" E, a distance of 267.85 feet;

Thence N 70°44'19" E, a distance of 213.69 feet;

Thence N 78°50'06" E, a distance of 246.38 feet to a point on aforesaid Right-of-Way Line;

Thence along said Right-of-Way Line and with a curve to the left with an arc length of 31.19 feet, with a radius of 663.66 feet, with a chord bearing of S 27°02'09" E, with a chord length of 31.19 feet;

Thence S 78°50'06" W, leaving said Right-of-Way Line, a distance of 252.79 feet;

Thence S 70°44'19" W, a distance of 206.00 feet;

Thence S 49°43'27" W, a distance of 262.29 feet;

Thence with a curve to the left with an arc length of 66.76 feet, with a radius of 94.07 feet, with a chord bearing of S 29°23'31" W, with a chord length of 65.37 feet;

Thence with a curve to the right with an arc length of 85.76 feet, with a radius of 213.88

feet, with a chord bearing of S 20°32'48" W, with a chord length of 85.19 feet;

Thence S 32°02'00" W, a distance of 122.17 feet;

Thence with a curve to the left with an arc length of 22.41 feet, with a radius of 45.00 feet, with a chord bearing of S 17°46'07" W, with a chord length of 22.18 feet;

Thence S 03°30'13" W, a distance of 276.67 feet;

Thence S 78°53'17" E, a distance of 38.87 feet;

Thence S 11°06'43" W, a distance of 30.00 feet to the POINT OF BEGINNING.

Said Easement contains 0.97 Acres (42,247 Square Feet), more or less.

## TITLE EXAMINATION

(Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/NSPS 2016 requirements, Section 6. C. ii., and is limited to determination of the location [within subject Tax Parcel(s)] described by Title Items. Items are mapped hereon only when adequately described of record and are within Survey Area. "Blanket" denotes items applicable to the entire Parcel (not subject to separate mapping). Surveyor may note where ambiguous or inexact descriptions might warrant a review by Title Attorney to establish "intent" or other matters, which are not addressed by Survey.

Reference: Report of Title, prepared by U.S. Title Solutions, File No. 67406-GA2102-5034, Issued 03-05-2021, Schedule B:

Item 1: Taxes, not addressed herein.

Item 2: Mortgages: Deed 8192-388: Applies to Parent Tax Parcel. Blanket.

Item 3, 4: No instruments listed.

Item 5: Writ, Deed 480-659: Deed contains no Land Descriptions.

Item 6, 7: No instruments Listed.

Item 8: Plat Book 852-141: Previous Plat of the vesting lands (Tax Parcels A, B & C hereon). Shows no relevant matters, but a new version of the plat was record, see Item 10 below.

Item 9: Boundary Line Agreement, Deed 5887-483: Agreement between former owners, parties agree that the Northwest Line of Parent Tax Parcel is as shown on previous Plat PB 876-141, ans is related to the Southwest Line of Parcel A. No influence on Lessee's Premises or Easement. Note: This survey is not a Boundary Survey of the Vesting Lands, and does not address the current location of the Southwest Line of Parcel A, which appears to have been modified again by Survey in Plat (see Item 10).

Item 10: Plat Book 876, Page 244: Current Plat of Parent Tax Parcel: Plat shows: Power line crossing property: Shown hereon within Survey Area, crosses Lessee's Easement. (Plat does not declare Easement for same).

Flood Hazard Zone, SW portion of Parcel, not located on Lessee's Premises or Easement.

Ponds, no easements declared, not located on Lessee's Premises or Easement.

Plat shows portion of gravel drive which lies partly upon adjacent Parcel 1. Shown hereon. This survey does not address the significance of this item as a possible encroachment onto adjoining property: Lessee's Easement follows property line and does not lie on Parcels other than Parcel A.

Note: See Item 8 and 9 above. The current conveyance deed to present owner conveys the property relative to Plat 876-244.

Item 11: Current Use Assessment, Deed 8279-748: Applies to Parent Tax Parcel, Blanket.

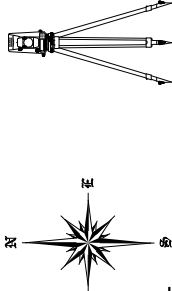
## TITLE EXAMINATION DESCRIPTION OF PARENT TAX PARCEL

TITLE TO SAID ESTATE OR INTEREST IN THE LAND DESCRIBED OR REFERRED TO IN THIS REPORT IS AT THE EFFECTIVE DATE HEREOF VESTED IN: Lazy L Land and Cattle Company, LLC, a Georgia Limited Liability Company.

### SOURCE OF TITLE:

Limited Warranty Deed made by HOLCIM (US) Inc. as successor by merger to Lafarge Building Materials, Inc., a Delaware Corporation dated Dec 13, 2018 recorded on Dec 13, 2018 in Deed Book 8192, Page 384.

All that tract or parcel of land lying and being in Tadmore District, G.M.D. 268 Hall County, Georgia, and Millers District, G.M.D. 455 Jackson County, Georgia, and consisting of 203.006 acres, as shown on a survey for Lazy L land and Cattle, LLC dated November 12, 2018, prepared by EarthPro Land Surveying, Joseph K. Wood, Georgia Registered Land Surveyor No. 2932, recorded in Plat Book 876, page 244, Hall County, Georgia records and Plat Book 71, page 722, Jackson County, Georgia Records. Said Plat and the records thereof are incorporated herein by reference for a more complete description of said property.



THE

**LAND CONSULTANTS**

5449 Highway #41  
Jasper, TN 37347

(423) 304-6722

Georgia C.O.A. No. LSF001190

LLC

PREPARED FOR

**verizon**

VERIZON WIRELESS

**SPECIAL PURPOSE SURVEY**

SITE NAME:

**POND FORK**

Location Code: 581347

Holly Springs Road, Gillsville, GA 30543

Tadmore District, 268 G.M.D.  
Hall County, Georgia

DWG#: 21011  
ISSUE #: 2  
ISSUE DATE: 03-16-2021  
SEE SHEET #1

**DESCRIPTIONS**

SHEET 6 OF 7



## TITLE EXAMINATION #1

(Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/NSPS 2016 requirements, Section 6. C. ii., and is limited to determination of the location [within subject Tax Parcel(s)] described by Title Items. Items are mapped hereon only when adequately described of record and are within Survey Area. "Blanket" denotes items applicable to the entire Parcel (not subject to separate mapping). Surveyor may note where ambiguous or inexact descriptions might warrant a review by Title Attorney to establish "intent" or other matters, which are not addressed by Survey.

Reference: Report of Title, prepared by U.S. Title Solutions, File No. 66810-GA2012-5034 (Pond Fork), Issued 01-04-2021, Schedule B:

Item 1: Taxes, not addressed herein.

Item 2: Mortgages: Deed 8192-388: Applies to Parent Tax Parcel. Blanket.

Item 3, 4: No instruments listed.

Item 5: Writ, Deed 480-659: Deed contains no Land Descriptions.

Item 6: Current Use Assessment, Deed 8279-746: Applies to Tax Parcel "B" hereon. No influence on Lessee's Premises or Easement.

Item 7: Easement, Deed 324-256:

Item 8: Easement, Deed 338-128:

Easements for channel improvement, Lipscomb Creek. Granted from former owner. Creeks cross the Parent Tax Parcel, including that now known as East Fork Pond Fork. Deeds refer to a map that is not included: exact intended locations cannot be determined. Relationship to Parent Tax Parcel cannot be determined. No such creeks located in or near Lessee's Premises or Easement.

Item 9: Quit Claim Deed 5885-315: Deed may be related to Parent Tax Parcel according to Deed Chain information. Deed conveys a property described by reference to Deeds which were not included with Title Examination. Relationship, if any to current Parent Tax Parcel, can not be determined. (Instrument does not list any Easements, Rights-of-Way or Servitudes).

Item 10: Judgment, Deed 535-303: Relates to "5.425 Acres of land in Clermont District", not otherwise described. Relationship, if any to current Parent Tax Parcel, can not be determined.

Item 11: Boundary Line Agreement, Deed 5887-483: See Title Exam #2, Item 9

Item 12: Plat Book 876-244: See Title Exam #2, Item 10.

## TITLE EXAMINATION DESCRIPTION OF PARENT TAX PARCEL

TITLE TO SAID ESTATE OR INTEREST IN THE LAND DESCRIBED OR REFERRED TO IN THIS REPORT IS AT THE EFFECTIVE DATE HEREOF VESTED IN: Lazy L Land and Cattle Company, LLC, a Georgia Limited Liability Company.

### SOURCE OF TITLE:

Limited Warranty Deed made by HOLCIM (US) Inc. as successor by merger to Lafarge Building Materials, Inc., a Delaware Corporation dated Dec 13, 2018 recorded on Dec 13, 2018 in Deed Book 8192, Page 384.

## NOTE:

Both Title Exams call for the same vesting Deed, only the second Exam quotes the actual record Description per Deed (see left).

## TITLE EXAMINATION #2

(Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/NSPS 2016 requirements, Section 6. C. ii., and is limited to determination of the location [within subject Tax Parcel(s)] described by Title Items. Items are mapped hereon only when adequately described of record and are within Survey Area. "Blanket" denotes items applicable to the entire Parcel (not subject to separate mapping). Surveyor may note where ambiguous or inexact descriptions might warrant a review by Title Attorney to establish "intent" or other matters, which are not addressed by Survey.

Reference: Report of Title, prepared by U.S. Title Solutions, File No. 67406-GA2102-5034, (Pond Fork Access"), Issued 03-05-2021, Schedule B:

Item 1: Taxes, not addressed herein.

Item 2: Mortgages: Deed 8192-388: Applies to Parent Tax Parcel. Blanket.

Item 3, 4: No instruments listed.

Item 5: Writ, Deed 480-659: Deed contains no Land Descriptions.

Item 6, 7: No instruments Listed.

Item 8: Plat Book 852-141: Previous Plat of the vesting lands (Tax Parcels A, B & C hereon). Shows no relevant matters, but a new version of the plat was record, see Item 10 below.

Item 9: Boundary Line Agreement, Deed 5887-483: Agreement between former owners, parties agree that the Northwest Line of Parent Tax Parcel is as shown on previous Plat PB 876-141, ans is related to the Southwest Line of Parcel A. No influence on Lessee's Premises or Easement. Note: This survey is not a Boundary Survey of the Vesting Lands, and does not address the current location of the Southwest Line of Parcel A, which appears to have been modified again by Survey in Plat (see Item 10).

Item 10: Plat Book 876, Page 244: Current Plat of Parent Tax Parcel: Plat shows: Power line crossing property: Shown hereon within Survey Area, crosses Lessee's Easement. (Plat does not declare Easement for same).

Flood Hazard Zone, SW portion of Parcel, not located on Lessee's Premises or Easement.

Ponds, no easements declared, not located on Lessee's Premises or Easement.

Plat shows portion of gravel drive which lies partly upon adjacent Parcel I. Shown hereon. This survey does not address the significance of this item as a possible encroachment onto adjoining property: Lessee's Easement follows property line and does not lie on Parcels other than Parcel A.

Note: See Item 8 and 9 above. The current conveyance deed to present owner conveys the property relative to Plat 876-244.

Item 11: Current Use Assessment, Deed 8279-748: Applies to Parent Tax Parcel, Blanket.

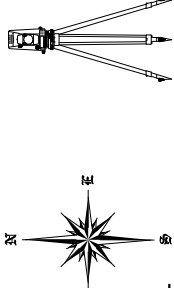
## TITLE EXAMINATION DESCRIPTION OF PARENT TAX PARCEL

TITLE TO SAID ESTATE OR INTEREST IN THE LAND DESCRIBED OR REFERRED TO IN THIS REPORT IS AT THE EFFECTIVE DATE HEREOF VESTED IN: Lazy L Land and Cattle Company, LLC, a Georgia Limited Liability Company.

### SOURCE OF TITLE:

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PREPARED FOR

**verizon**

VERIZON WIRELESS

SPECIAL PURPOSE SURVEY

SITE NAME:

**POND FORK**

Location Code: 581347

Holly Springs Road, Gillsville, GA 30543

Tadmore District, 268 G.M.D.  
Hall County, Georgia

DWG#: 21011  
ISSUE #: 2  
ISSUE DATE: 03-16-2021  
SEE SHEET #1

**DESCRIPTIONS**

SHEET 7 OF 7



**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 STYME 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' 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 3/4" 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 ±1/8" 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.

**USE SUBJECT TO COUNTY COMMISSION APPROVAL JANUARY 13, 2022**

- CONDITIONS OF APPROVAL**
- 1. THE PROPOSED TOWER SHALL BE LOCATED AS SHOWN ON THE SITE PLAN AND AS DESCRIBED IN THE NARRATIVE THAT WAS SUBMITTED.
  - 2. THE APPLICANT SHALL NOTIFY THE COUNTY OF ANY CONSTRUCTION, TOWER, OR SITE MODIFICATIONS THAT WOULD BE DIFFERENT FROM WHAT IS SUBMITTED FOR CONSIDERATION. OF PARTICULAR INTEREST TO THE COUNTY ARE CHANGES IN HEIGHT, STRUCTURE, TOWER LIGHTING, AND GROUND FACILITIES THAT WOULD HAVE ANY IMPACT ON THE SITES ABILITY TO SUPPORT OTHER USERS OR AFFECT THE SURROUNDING NEIGHBORHOOD.
  - 3. THE APPLICANT SHALL PROVIDE TOWER AND FOUNDATION DESIGN PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
  - 4. THE HEIGHT OF THE TOWER AND ALL APPURTENANCES, INCLUDING LIGHTNING RODS, SHALL BE LIMITED TO 265 FEET AS SHOWN ON THE PROPOSED CONSTRUCTION DRAWINGS.
  - 5. ALL PLANS AND PLATS CREATED FOR THIS DEVELOPMENT SHALL REFERENCE THE CONDITIONS OF ZONING APPROVAL.



10300 OLD ALABAMA ROAD, CONNECTOR  
ALPHARETTA, GEORGIA 30022

**PROJECT INFORMATION:**

**SITE NAME:**  
POND FORK  
**SITE No.:** 581347  
**FUZE PROJECT #:** 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

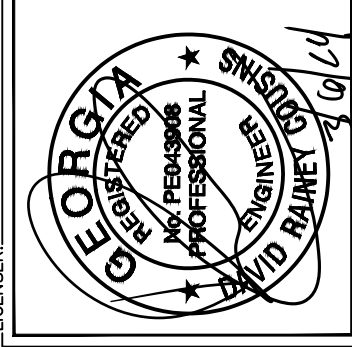
**PLANS PREPARED BY:**



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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3	03/06/24	CONSTRUCTION DRC
2	01/26/22	CONSTRUCTION DRC
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0	05/18/21	CONSTRUCTION DRC
A	04/29/21	PRELIMINARY DRC



**KHA PROJECT NUMBER:**

013509266

**DRAWN BY:**

TDM

**CHECKED BY:**

TRN

**SHEET TITLE:**

GENERAL NOTES

**SHEET NUMBER:**

N1



10300 OLD ALABAMA ROAD, CONNECTOR  
ALPHARETTA, GEORGIA 30022

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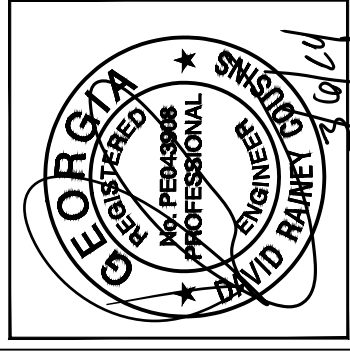
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DRAWN BY: CHECKED BY:

TDM TRN

SHEET TITLE:

OVERALL PARCEL  
PLAN

SHEET NUMBER:

C0

TOWER SETBACKS TO PROPERTY LINES (FROM TOWER CENTER)	
NORTH	530'-7"
SOUTH	564'-0"
EAST	971'-0"
WEST	2253'-11"

LAZY LAND AND CATTLE COMPANY, LLC.  
TAX PARCEL: 15002 000007A  
DEED BOOK 8394, PAGE 647  
ZONING: AR-IV

GREGORY L. GENSEL, JR.  
TAX PARCEL: 15002 0000050  
DEED BOOK 6729, PAGE 27  
PLAT BOOK 676, PAGE 97B  
ZONING: AR-IV

JACK LATIMER  
TAX PARCEL: 15002 0000027  
DEED BOOK 1509, PAGE 99  
ZONING: AR-IV

ADJACENT RESIDENTIAL STRUCTURE (TYP)

HOLLY SPRINGS RD  
(GA-82 N)

PROPOSED LESSEE 30' WIDE ACCESS & UTILITY/FIBER EASEMENT

JOSE A. ARTEAGA  
TAX PARCEL: 15011 0000008  
DEED BOOK 7174, PAGE 11  
PLAT BOOK 107, PAGE 155  
ZONING: AR-IV

PROPOSED LESSEE 100' X 100' PREMISES (±10,000 SQ. FT.) (SEE SHEET C1)

LAZY L LAND AND CATTLE COMPANY, LLC.  
TAX PARCEL: 15002 0000061  
DEED BOOK 8192, PAGE 384  
PLAT BOOK 876, PAGE 244  
ZONING: AR-IV

PROPOSED 255' SELF-SUPPORT TOWER WITH LESSEE 250' RAD CENTER (265' TO HIGHEST APPURTENANCE) (SEE SHEET C13)

LAZY L LAND AND CATTLE COMPANY, LLC.  
TAX PARCEL: 15002 0000007  
DEED BOOK 876, PAGE 384  
PLAT BOOK 876, PAGE 244  
ZONING: AR-IV

LAZY L LAND AND CATTLE COMPANY, LLC.  
TAX PARCEL: 098 0041A  
DEED BOOK 8192, PAGE 384  
PLAT BOOK 876, PAGE 244  
ZONING: AR-IV

**TOWER SETBACK NOTE:**  
PER SECTION OF 17.410.40. E. SETBACKS 1. TELECOMMUNICATIONS TOWERS WITHIN THE AR-III OR AR-IV ZONING DISTRICTS SHALL BE SET BACK A MINIMUM OF TWO TOWER LENGTHS FROM THE BASE OF THE TOWER TO ALL PROPERTY LINES. REQUIRED TOWER SETBACK FROM ALL PROPERTY LINES: 530' (265' X 2)  
3. ALL TELECOMMUNICATIONS TOWERS SHALL BE SET BACK FROM ANY RESIDENTIAL STRUCTURE EITHER A MINIMUM OF FOUR TOWER LENGTHS FROM THE BASE OF THE TOWER OR 500 FEET FROM THE BASE OF THE TOWER, WHICHEVER IS GREATER. 1,060' (265' X 4)

**SURVEY NOTE:**

1. VERIZON WIRELESS STAFF SHALL COORDINATE WITH THE PROPERTY OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT IN AND AROUND THE TOWER COMPOUND.
2. PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY THE LAND CONSULTANTS, LLC DATED 03/16/21 AND SITE VISIT ON 02/04/21.



1 OVERALL PARCEL PLAN  
C0 SCALE: 1" = 500'





10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

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HALL COUNTY

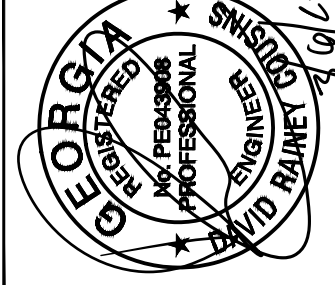
PLANS PREPARED BY:

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KHA PROJECT NUMBER:

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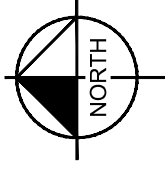
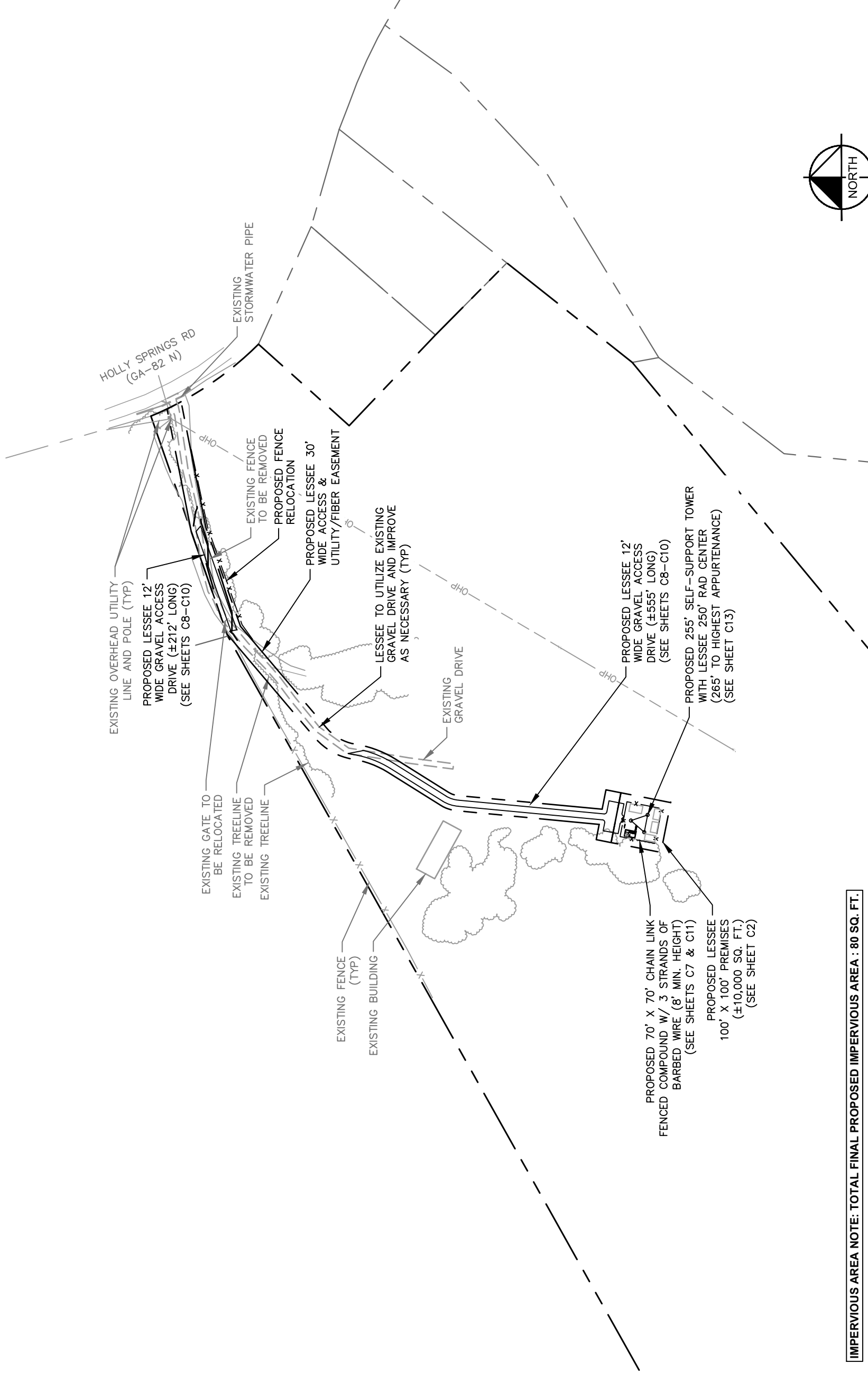
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SHEET TITLE:

OVERALL SITE  
PLAN

SHEET NUMBER:

C1



GRAPHIC SCALE: 1" = 200'

1 OVERALL SITE PLAN

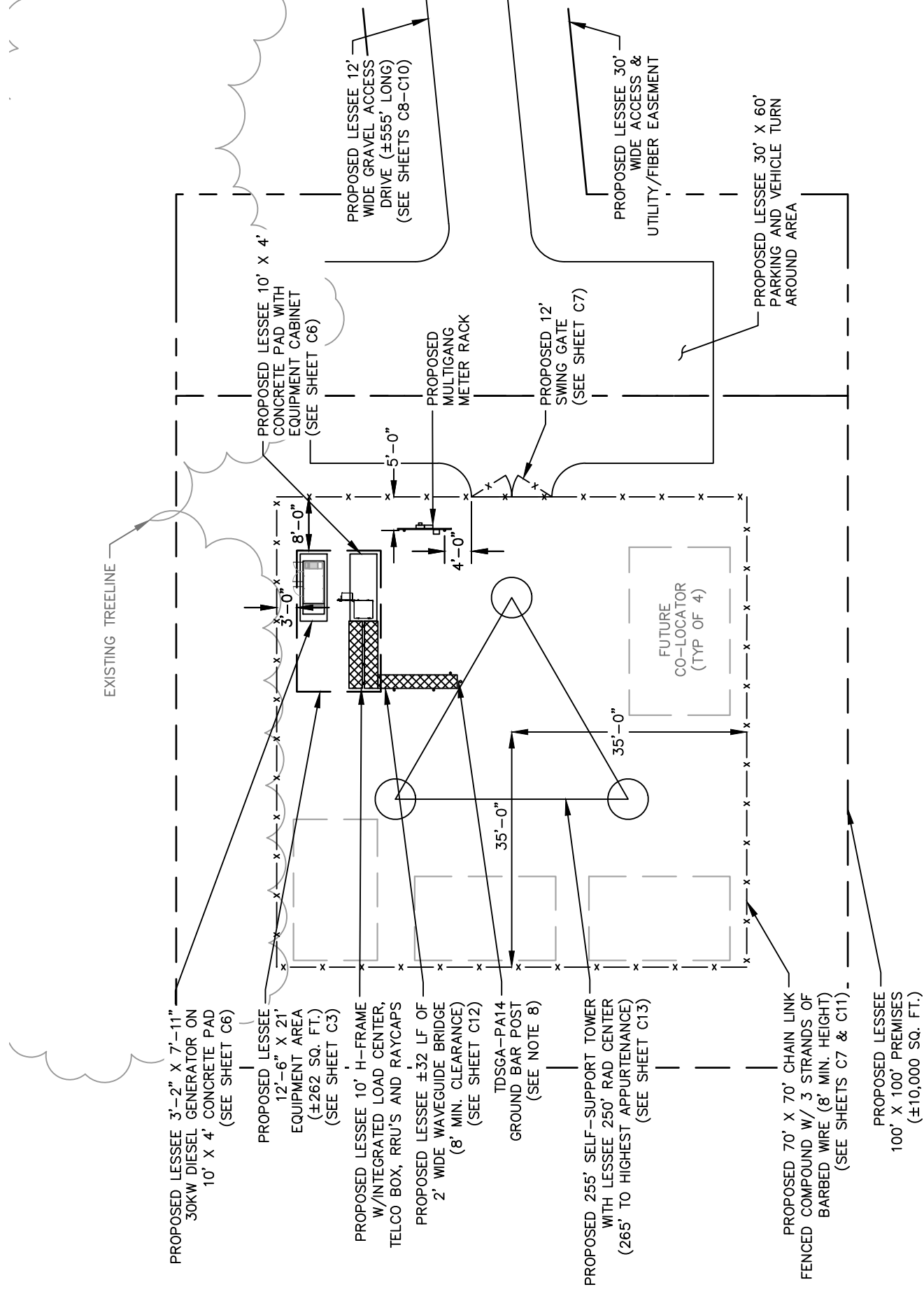
SCALE: 1" = 200'

IMPERVIOUS AREA NOTE: TOTAL FINAL PROPOSED IMPERVIOUS AREA : 80 SQ. FT.

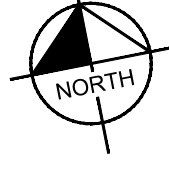
SURVEY NOTE:

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2. PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY THE LAND CONSULTANTS, LLC DATED 03/16/21 AND SITE VISIT ON 02/04/21.

**NOTE:**  
EXISTING NATURAL VEGETATION TO BE MAINTAINED AS A BUFFER ALONG WESTERLY SIDE OF COMPOUND.



1 SITE PLAN  
C2 SCALE: 1" = 20'



**SITE NOTES:**

1. VERIZON WIRELESS STAFF SHALL COORDINATE WITH THE PROPERTY OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT IN AND AROUND THE TOWER COMPOUND.
2. PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY THE LAND CONSULTANTS, LLC DATED 03/16/21 AND SITE VISIT ON 02/04/21.
3. CONTRACTOR TO CONFIRM WITH VERIZON CONSTRUCTION MANAGER THAT THE EQUIPMENT SHOWN HAS BEEN ORDERED/SCHEDULED FOR DELIVERY TO THIS SITE.
4. THE BASIS OF EQUIPMENT DESIGN INCLUDES ONE (1) RF CABINET, ONE (1) FUTURE BATTERY CABINET, AND ONE (1) FUTURE EXPANSION CABINET.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND MODIFYING SCOPE OF WORK TO ACCOMMODATE ANY CHANGES IN THE EXACT EQUIPMENT PROCURED BY VERIZON WIRELESS. COORDINATE ANY CHANGES WITH VERIZON WIRELESS CONSTRUCTION MANAGER.
6. ROUTE COAX/FIBER UP TOWER PER STRUCTURAL ANALYSIS BY TOWER OWNER.
7. TOWER DIMENSIONS SHOWN ON THIS PLAN ARE FOR TOWER CENTER LOCATION. CONTRACTOR TO OBTAIN COPY OF TOWER ERECTION DRAWINGS FROM VERIZON CONSTRUCTION MANAGER PRIOR TO DRILLING TOWER FOUNDATIONS. CASSIONS AND TOWER SHOWN ON THIS PLAN ARE ILLUSTRATIVE, SEE DESIGN DRAWING BY OTHERS. DO NOT SCALE.
8. INSTALL 3/2" O.D. GALVANIZED STEEL POST FOR TDSGA-PA14 GROUND BAR. POST TO EXTEND 78" ABOVE GRADE AND SHALL BE EMBEDDED IN A 12"Ø CONCRETE FOOTING A MINIMUM OF 36". FOOTING SHALL EXTEND A MINIMUM OF 42" BELOW GRADE.
9. PER SECTION OF 17.410.40. F. PROVISIONS FOR CO-LOCATION. 3. ALL NEW TOWER INSTALLATIONS OF OVER 150 FEET IN HEIGHT SHALL PROVIDE ANTENNA AND SUPPORT SPACE FOR AT LEAST FIVE (5) CARRIERS.



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SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

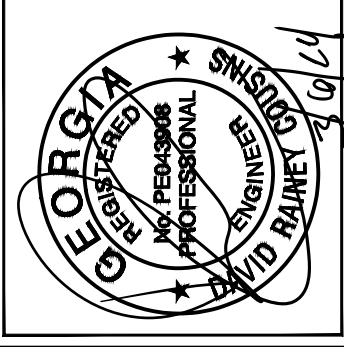
PLANS PREPARED BY:



REV. DATE. ISSUED FOR. BY:

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LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

TDM

CHECKED BY:

TRN

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C2



PROJECT INFORMATION:

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SITE No.: 581347  
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GILLSVILLE, GA 30543  
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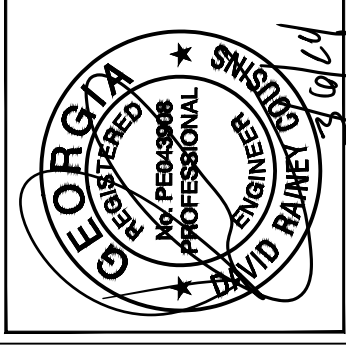
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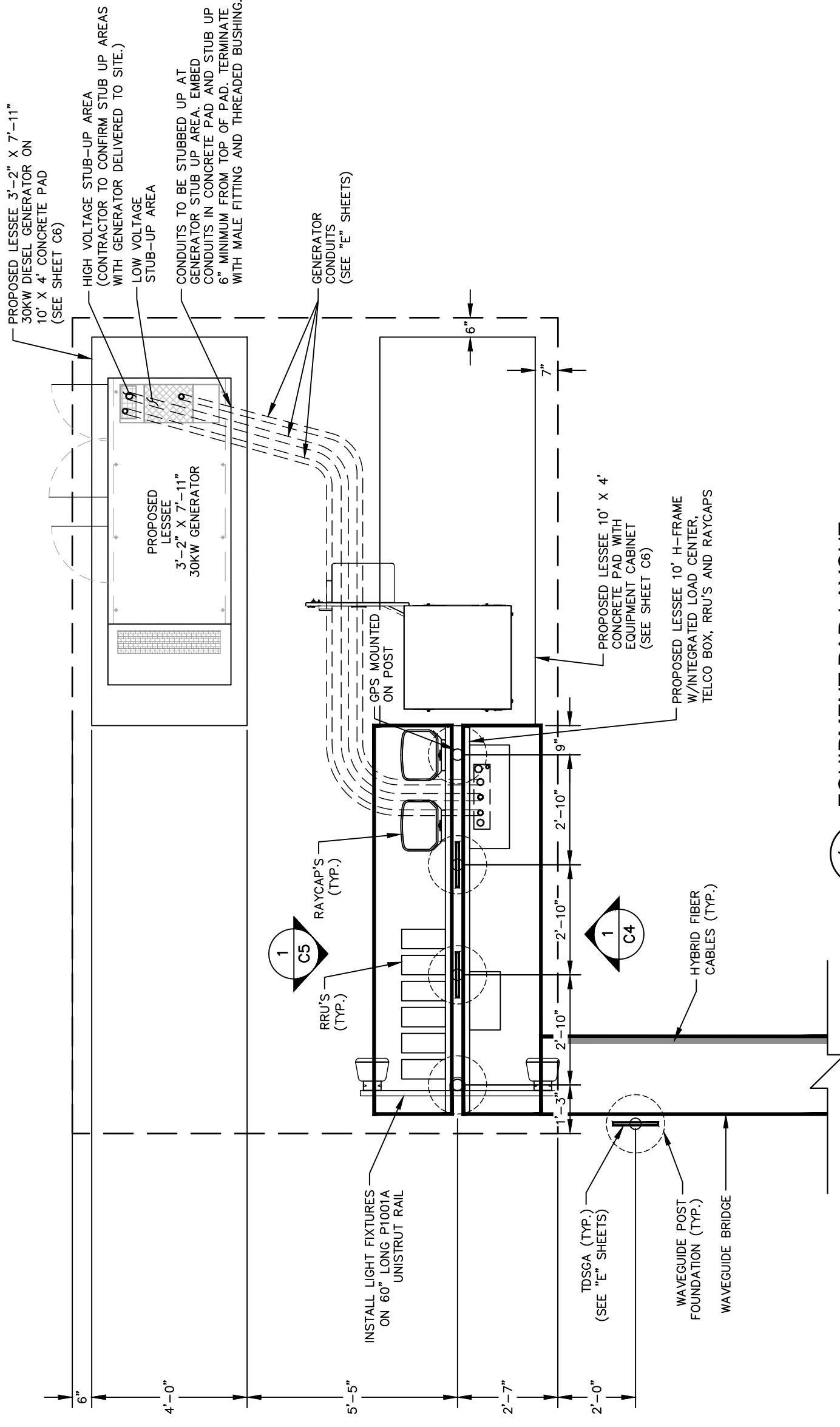
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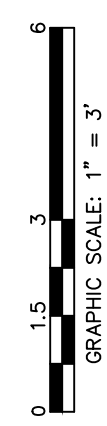
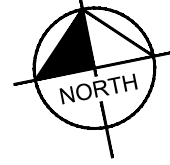
**EQUIPMENT PAD  
LAYOUT**

SHEET NUMBER:

C3



**1 EQUIPMENT PAD LAYOUT**  
SCALE: 1" = 3'



EQUIPMENT PAD/ROUTING NOTES:

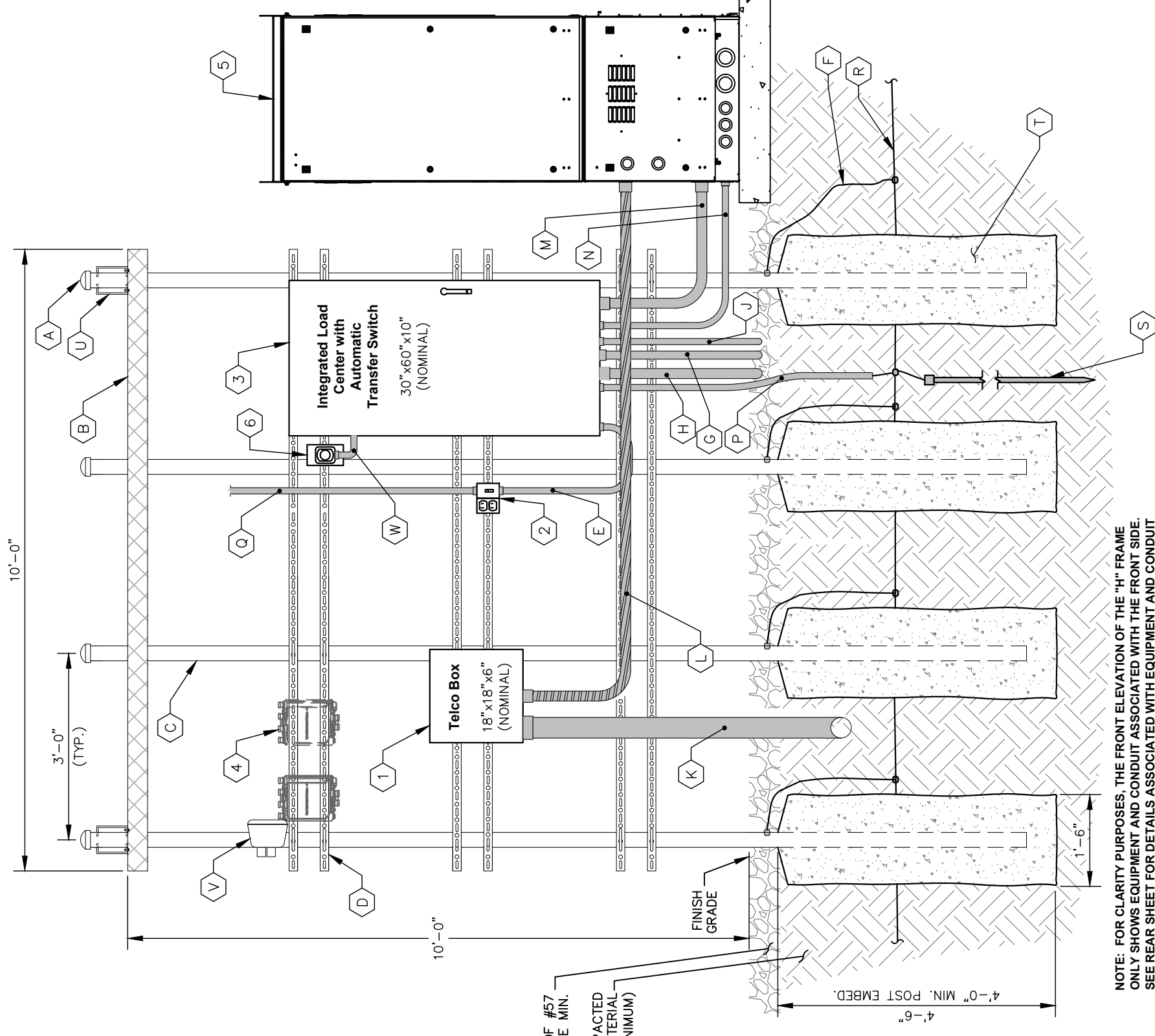
- REFER TO THE SITE PLAN FOR EQUIPMENT PAD LOCATION AND ORIENTATION.
- RUN 2" FLEX TELCO CONDUIT FROM BOTTOM OF TELCO BOX TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
- RUN 2" FLEX POWER CONDUIT AND 1" FLEX ALARM CONDUIT FROM BOTTOM OF ILC TO SIDE OF RF CABINET WITH CHASE NIPPLES THROUGH FACTORY KNOCKOUTS.
- RUN 2" FLEX FIBER CONDUIT FROM BOTTOM OF OVP TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
- RUN (1) 1/2" FLEX POWER CONDUIT FOR EVERY (6) RRU CIRCUITS FROM BOTTOM OF OVP TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
- SUPPORT FLEX CONDUIT ON HORIZONTAL H-FRAME RAILS OR ON VERTICAL SITE STRUT SNT10 RAILS ADDED TO H-FRAME FOR CONDUIT/CABLE MANAGEMENT.
- 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.
- 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.
- 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.
- BOLT CABINETS AND GENERATOR TO SLAB USING FASTENERS SPECIFIED BY EQUIPMENT MANUFACTURER IN FACTORY PROVIDED MOUNTING HOLES.

### 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 1½" X 1½" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- E 1" PVC 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.
- H 2" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO THE GENERATOR.
- J 1" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO THE GENERATOR BATTERY CHARGER AND THE GENERATOR BLOCK HEATER.
- K 4" PVC TELCO CONDUIT, WITH TWO (2) PULL ROPES.
- L 2" FLEX CONDUIT FOR TELCO CABLES TO RF CABINET. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- M 2" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO RF CABINET. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- N 1" PVC 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.
- Q 1" PVC 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" PVC CONDUIT FOR ROUTING POWER CONDUCTORS FROM THE ILC TO THE EMERGENCY GENERATOR STOP SWITCH.

### KEY NOTES - ELECTRICAL EQUIPMENT

- 1 NEMA 3R ENCLOSURE TELCO BOX WITH REMOVABLE FRONT PANEL, PVC, (18" X 18" X 6" NOMINAL).
- 2 20 AMP GFCI DUPLEX RECEPTACLE AND TIMER 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, 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.



NOTE: 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 EQUIPMENT RACK DETAILS - FRONT

C4 NOT TO SCALE



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 HALL COUNTY

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

7	ISSUED FOR:	BY:
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3	03/06/24	CONSTRUCTION DRC
2	01/26/22	CONSTRUCTION DRC
1	08/31/21	CONSTRUCTION DRC
0	05/18/21	CONSTRUCTION DRC
A	04/29/21	PRELIMINARY DRC

LICENSER:  
 REGISTERED PROFESSIONAL ENGINEER  
 DAVID RAJNEY  
 No. PED43906  
 STATE OF GEORGIA

KHA PROJECT NUMBER:  
 013509266  
 DRAWN BY: TDM  
 CHECKED BY: TRN  
 SHEET TITLE:  
 EQUIPMENT RACK  
 DETAIL - FRONT  
 SHEET NUMBER:  
 C4

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

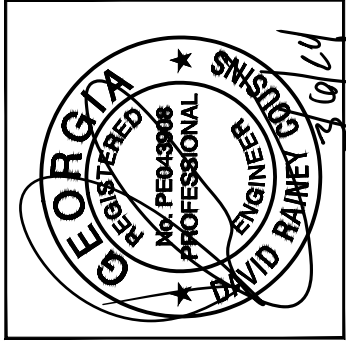
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LICENSER:



KHA PROJECT NUMBER: 013509266

DRAWN BY: TDM

CHECKED BY: TRN

SHEET TITLE:

EQUIPMENT RACK  
DETAIL - REAR

SHEET NUMBER:

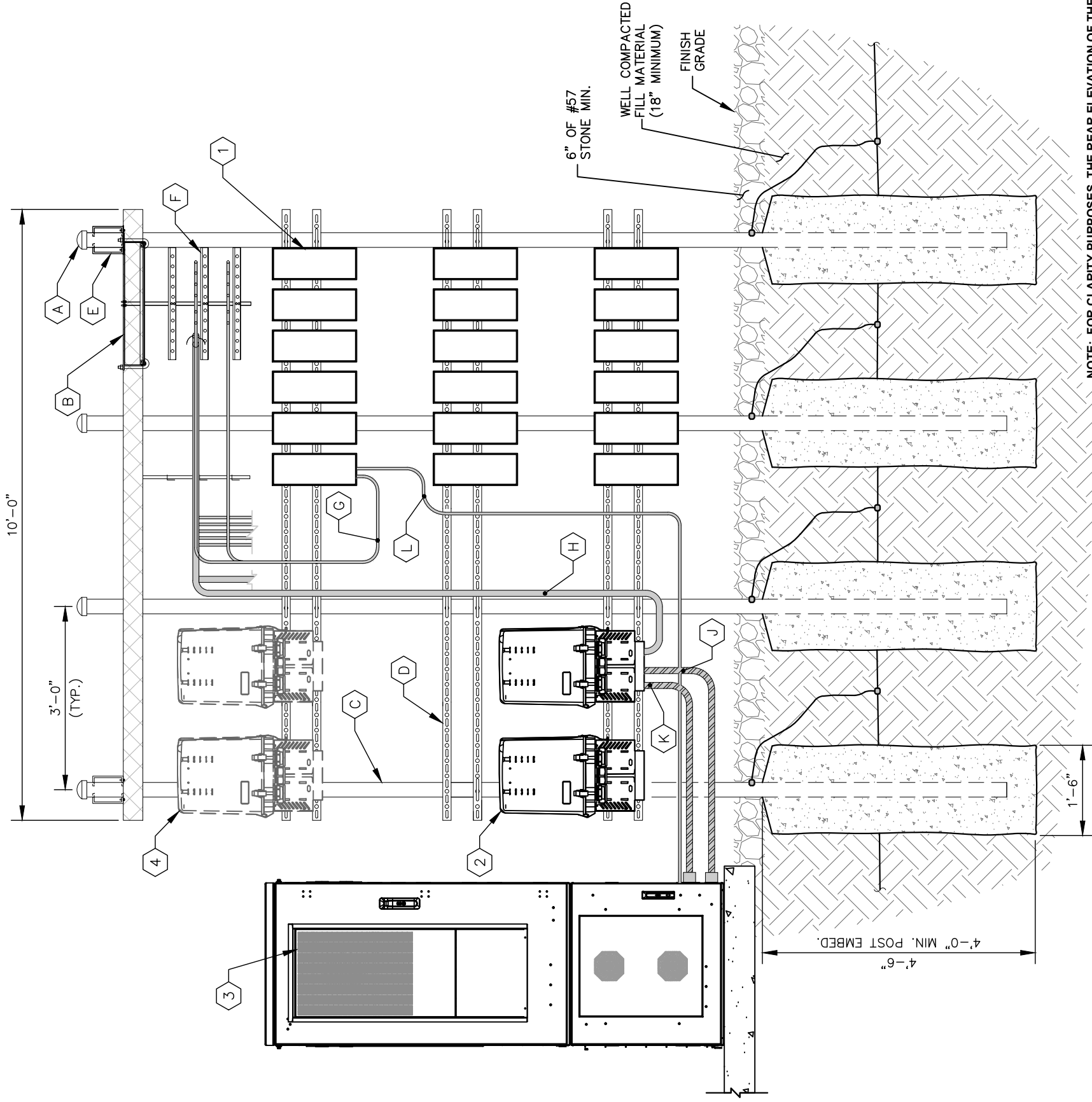
C5

**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 1½" X 1½" 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 FLEX CONDUIT RUNNING FROM BOTTOM OF RAYCAPS TO CABINET, TYPICAL (SEE "EQUIPMENT PAD LAYOUT" SHEET).
- K 2" FIBER FLEX 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.



NOTE: FOR CLARITY PURPOSES, THE REAR ELEVATION OF THE "H" FRAME ONLY SHOWS EQUIPMENT AND CONDUIT ASSOCIATED WITH THE REAR SIDE. SEE FRONT SHEET FOR DETAILS ASSOCIATED WITH EQUIPMENT AND CONDUIT MOUNTED ON THE FRONT SIDE OF THE "H" FRAME.

**1 EQUIPMENT RACK DETAILS - REAR**

NOT TO SCALE

C5



10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

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HALL COUNTY

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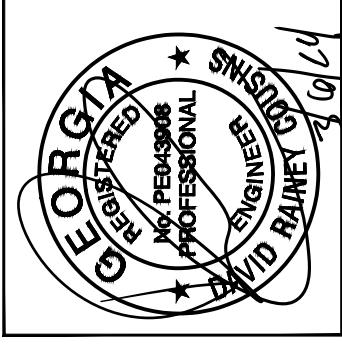


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LICENSER:



KHA PROJECT NUMBER:

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DRAWN BY:

TDM

CHECKED BY:

TRN

SHEET TITLE:

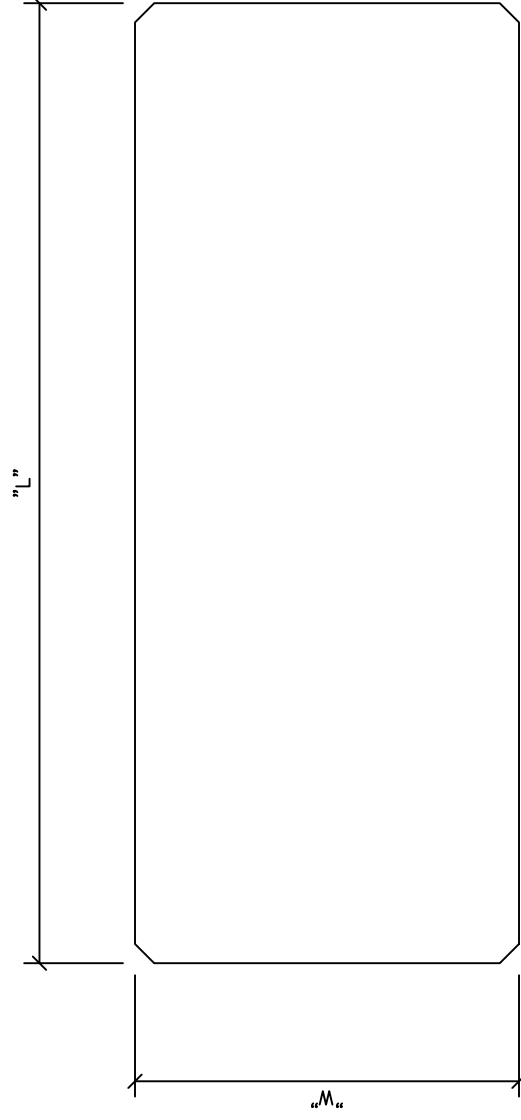
CONCRETE PAD  
FOUNDATION  
DETAILS

SHEET NUMBER:

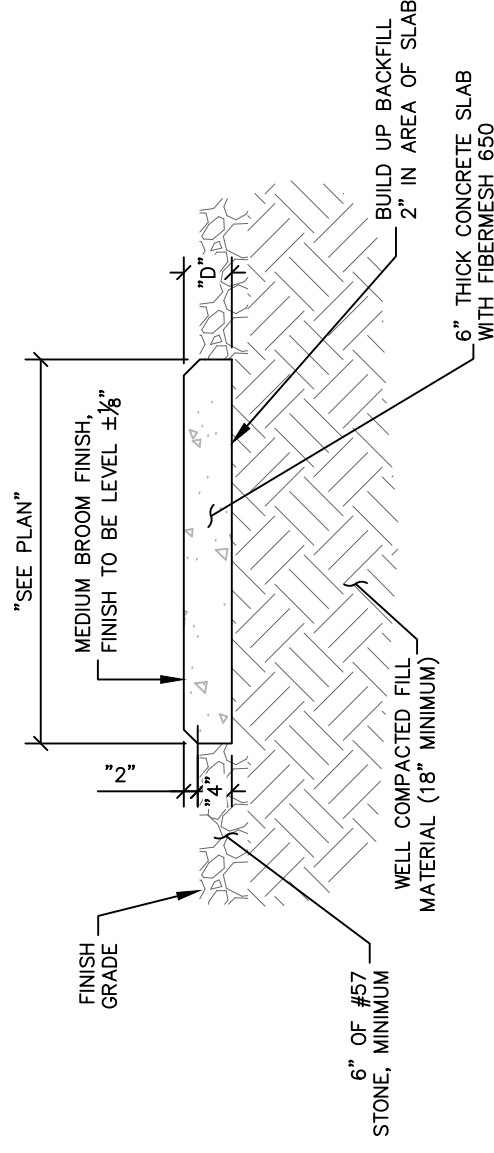
C6

CONCRETE PAD SCHEDULE

PAD TYPE	"L"	"W"	"D"	REINFORCEMENT
EQUIPMENT PAD	10'-0"	4'-0"	6"	SEE DETAIL 2/C6
GENERATOR PAD	8'-0"	3'-6"	6"	SEE DETAIL 2/C6



1 CONCRETE PAD PLAN  
C6 NOT TO SCALE



2 CONCRETE PAD FOUNDATION SECTION  
C6 NOT TO SCALE



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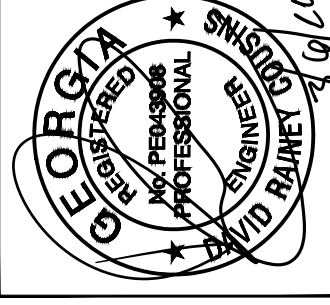
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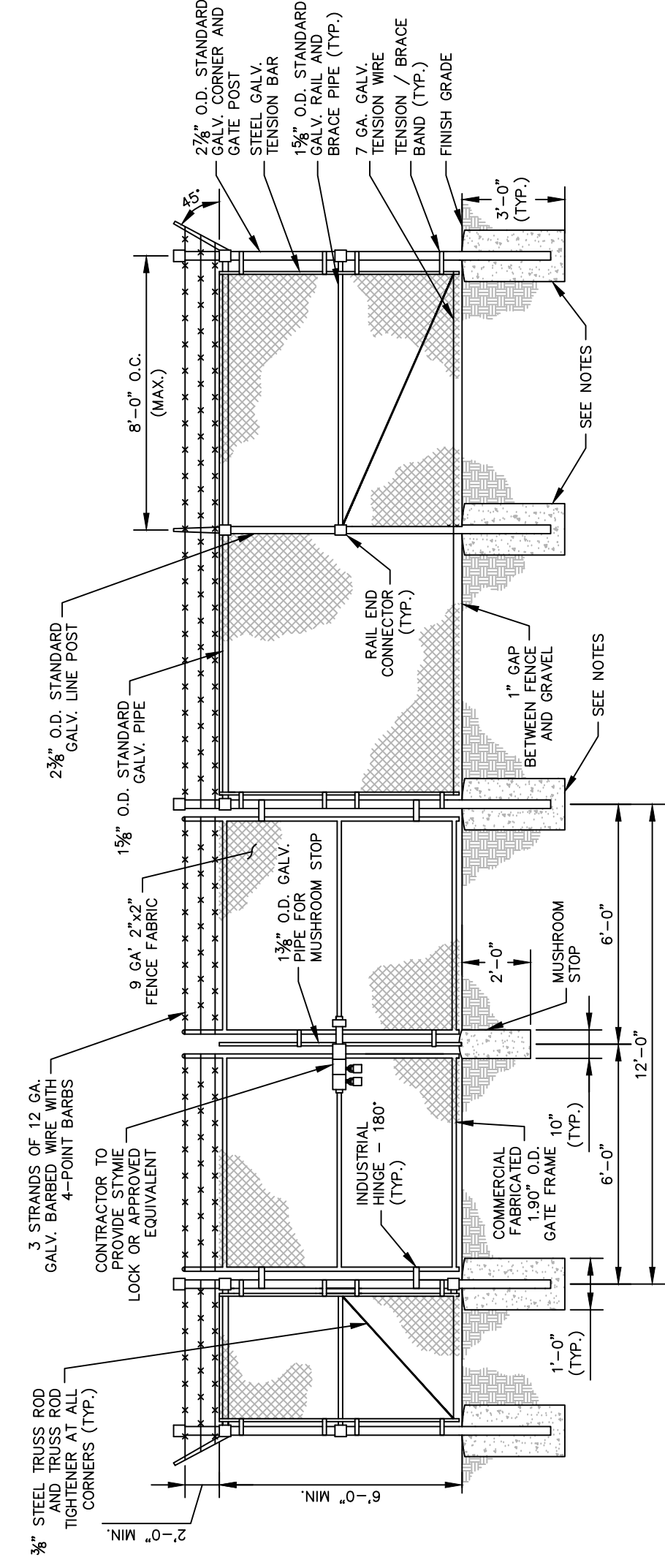
TDM TRN

SHEET TITLE:

FENCE, GATE AND  
COMPOUND  
DETAILS

SHEET NUMBER:

C7

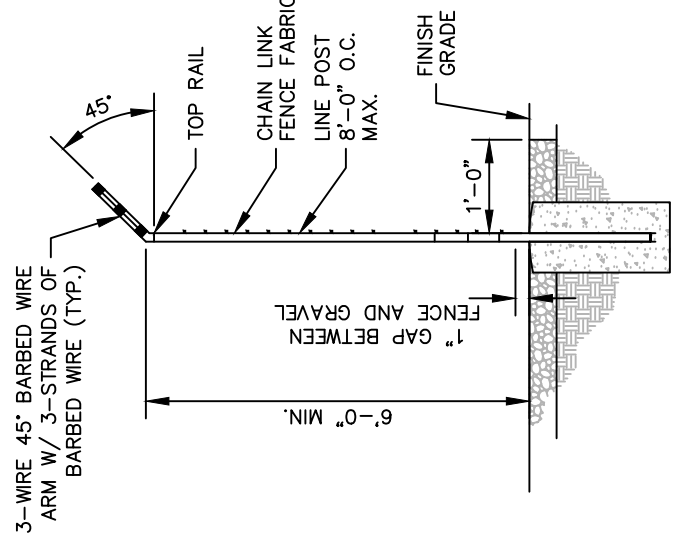


- FENCE NOTES:**
- USE 3,000-PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
  - WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON-SHRINK GROUT.
  - ALL POSTS MUST BE PLUMB AND ALIGNED WITH ONE ANOTHER IN BOTH HORIZONTAL AND VERTICAL PLANES.
  - CORNERS AND GATEPOSTS FOR CHAIN LINK FENCES SHALL EXTEND ABOVE THE TOP STRAND OF BARBED WIRE TO PROVIDE TENSIONING FOR THE BARBED WIRE.
  - PROVIDE MIDRAILS AND BRACING AT ALL CORNER POSTS WHERE THE FENCE CHANGES DIRECTION BY MORE THAN 30 DEGREES.
  - 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.
  - CONTRACTOR SHALL PROVIDE HOLD OPEN DEVICES FOR ALL GATES AT THE SPECIFIED OPEN POSITIONS, DRIVEN PIPE TYPE RECEIVERS ARE NOT AUTHORIZED.
  - CONTRACTOR SHALL ALSO PROVIDE A MUSHROOM TYPE RECEIVER AT THE CLOSE POSITION.

**1 CHAIN LINK FENCE AND GATE ELEVATION**

NOT TO SCALE

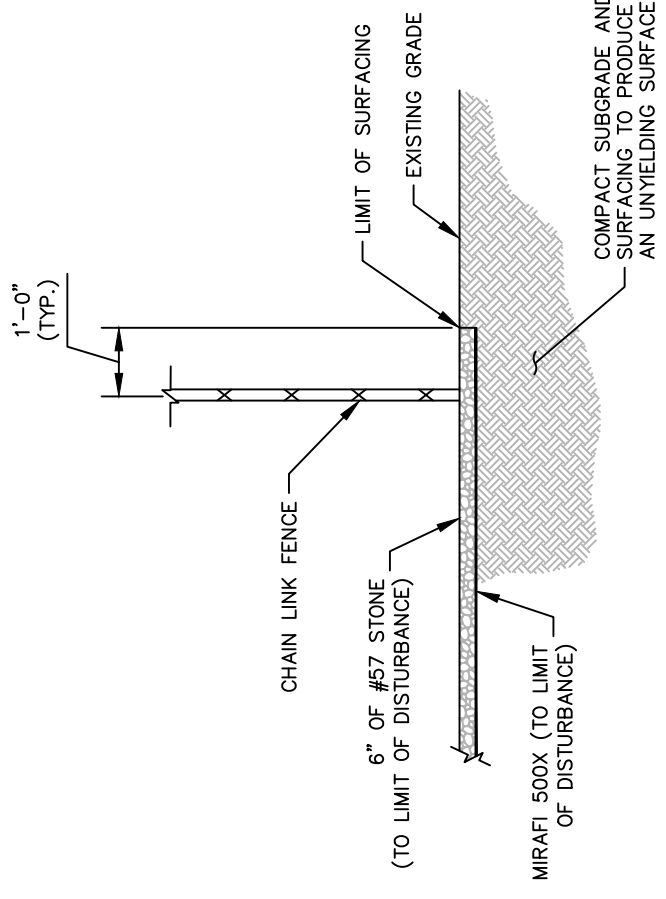
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**4 SECTION AT FENCE**

NOT TO SCALE

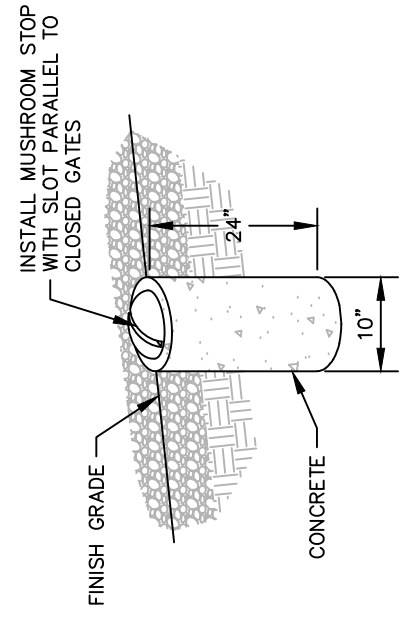
C7



**3 SITE COMPOUND SURFACE DETAIL**

NOT TO SCALE

C7



**2 MUSHROOM STOP**

NOT TO SCALE

C7



10300 OLD ALABAMA ROAD, CONNECTOR  
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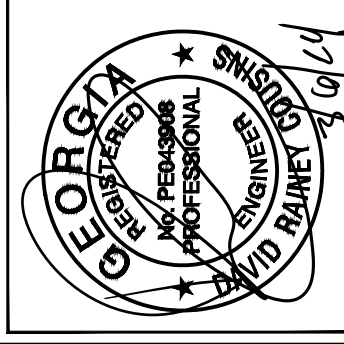


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TDM

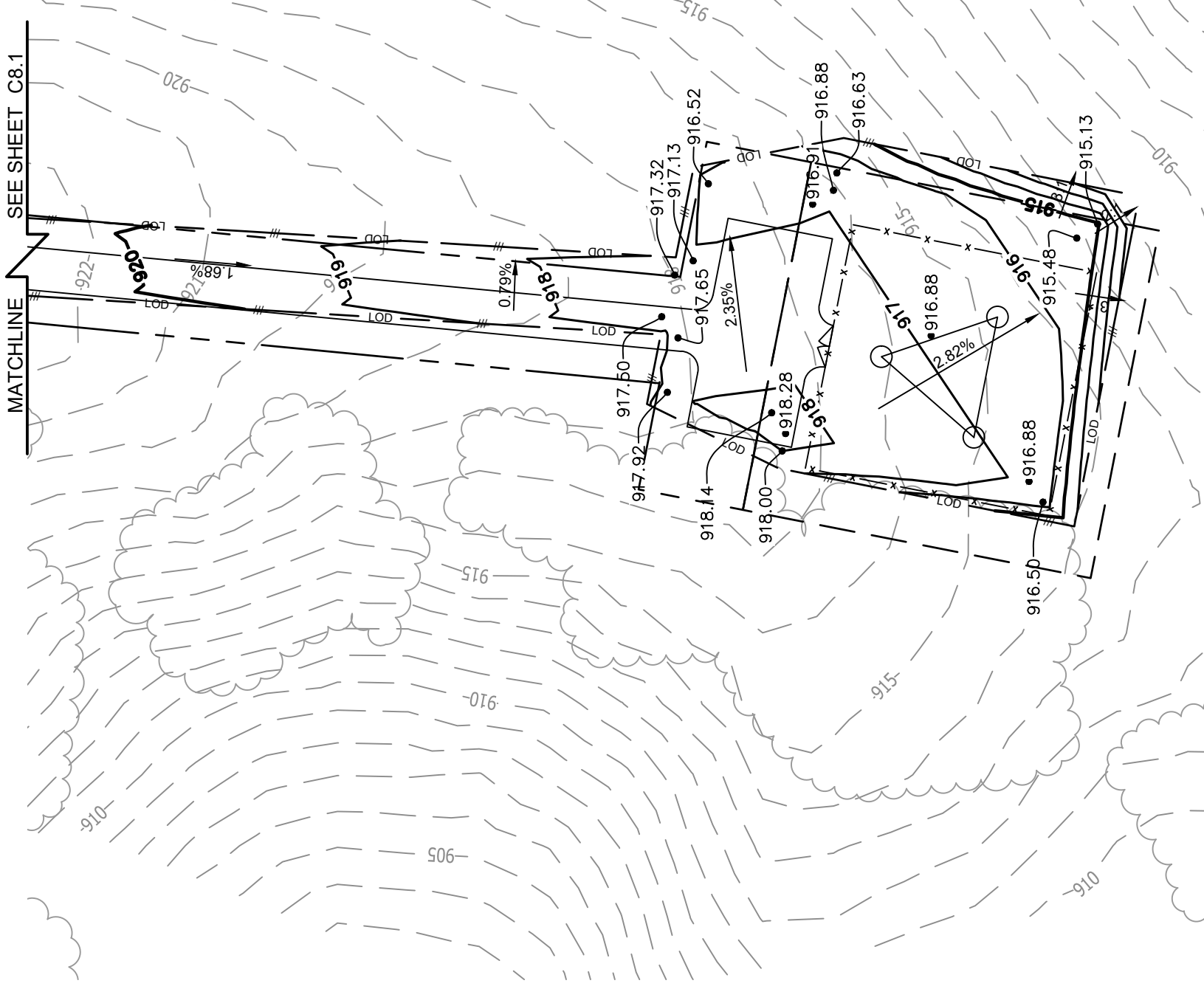
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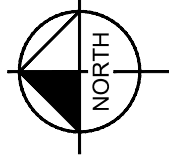
**GRADING AND  
EROSION  
CONTROL PLAN**

SHEET NUMBER:

C8



**1 GRADING & EROSION CONTROL PLAN**  
SCALE: 1" = 40'



**NOTE:**

CURRENT DESIGN ANTICIPATES APPROXIMATELY 28,564± SQ. FT. (0.66 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. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES. CONTRACTOR SHALL BLEND EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
2. 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.
3. FILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS.
4. UNDISTURBED AREAS WITHIN 30' INGRESS/EGRESS EASEMENT NOT NEEDED FOR UTILITY ROUTING TO BE LEFT UNDISTURBED.
5. 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.
6. SEED ALL DISTURBED AREAS NOT TOPPED WITH GRAVEL PER SEEDING SCHEDULE ON DETAIL ON SHEET C9.
7. MAXIMUM CUT SLOPE = 2H:1V UNLESS OTHERWISE NOTED.
8. MAXIMUM FILL SLOPE = 3H:1V UNLESS OTHERWISE NOTED.

**LEGEND**

- EXISTING CONTOURS ————
- PROPOSED CONTOURS ————
- LOD/SILT FENCE ——— LOD ——— TPF
- EXISTING SPOT ELEVATION x
- PROPOSED SPOT ELEVATION •

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10300 OLD ALABAMA ROAD, CONNECTOR  
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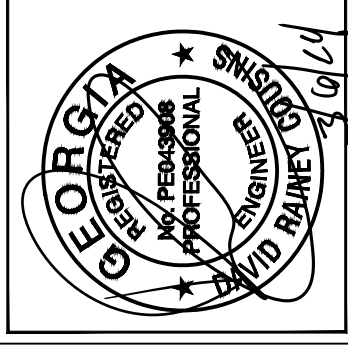
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LICENSER:



KHA PROJECT NUMBER:

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DRAWN BY: CHECKED BY:

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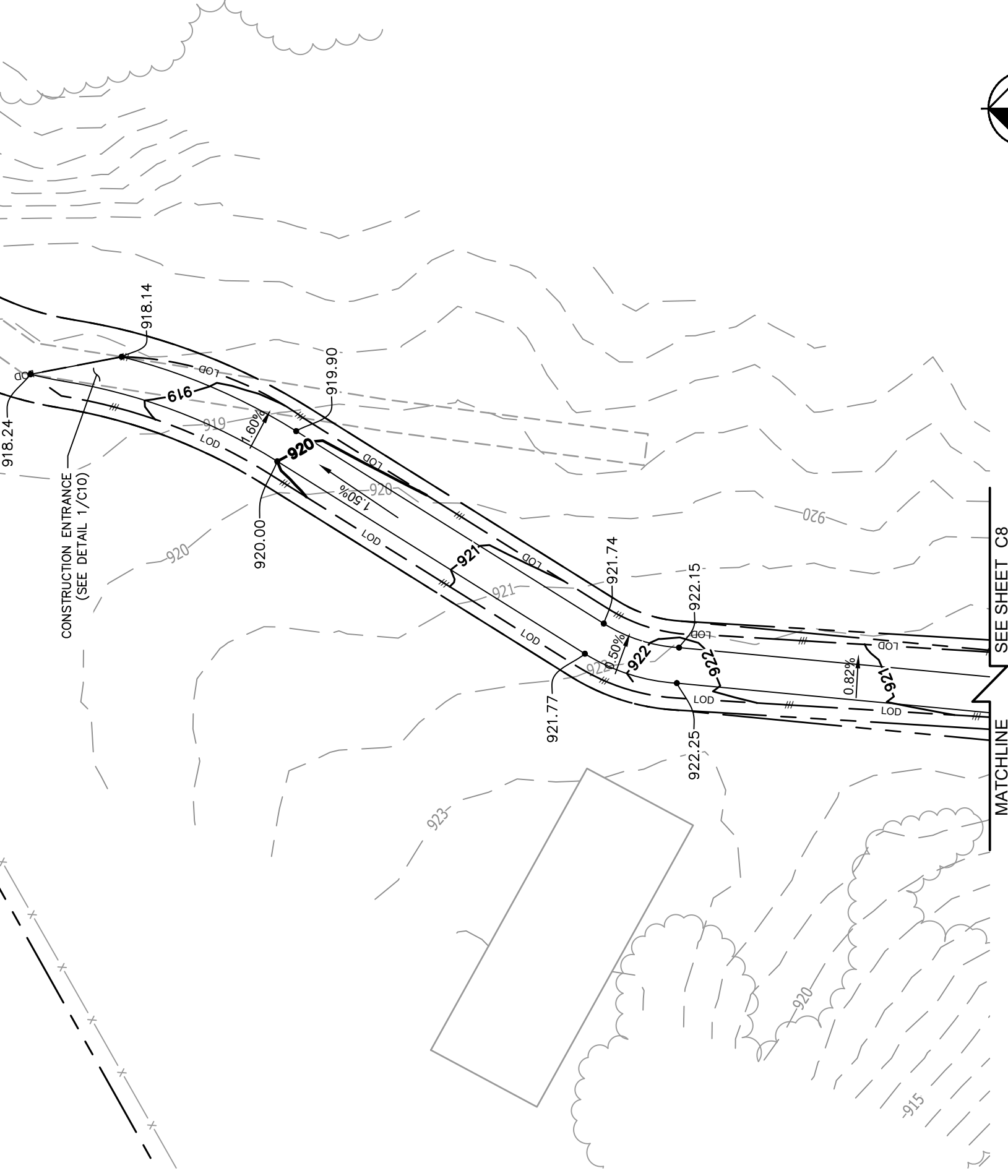
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SHEET TITLE:

GRADING AND  
EROSION  
CONTROL PLAN

SHEET NUMBER:

C8.1



1 GRADING & EROSION CONTROL PLAN  
C8.1 SCALE: 1" = 40'

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**LEGEND**

EXISTING CONTOURS	---
PROPOSED CONTOURS	---
LOD/SILT FENCE	--- LOD --- //
TPF	--- TPF ---
EXISTING SPOT ELEVATION	x XXX
PROPOSED SPOT ELEVATION	● XXX





10300 OLD ALABAMA ROAD CONNECTOR  
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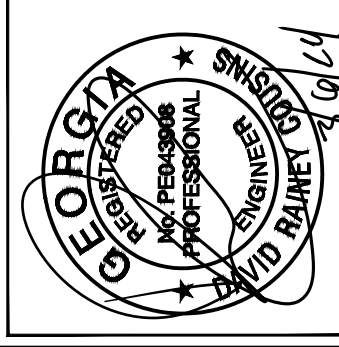
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LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY: CHECKED BY:

TDM

TRN

SHEET TITLE:

GRADING AND  
EROSION  
CONTROL PLAN

SHEET NUMBER:

C8.2

NOTE:

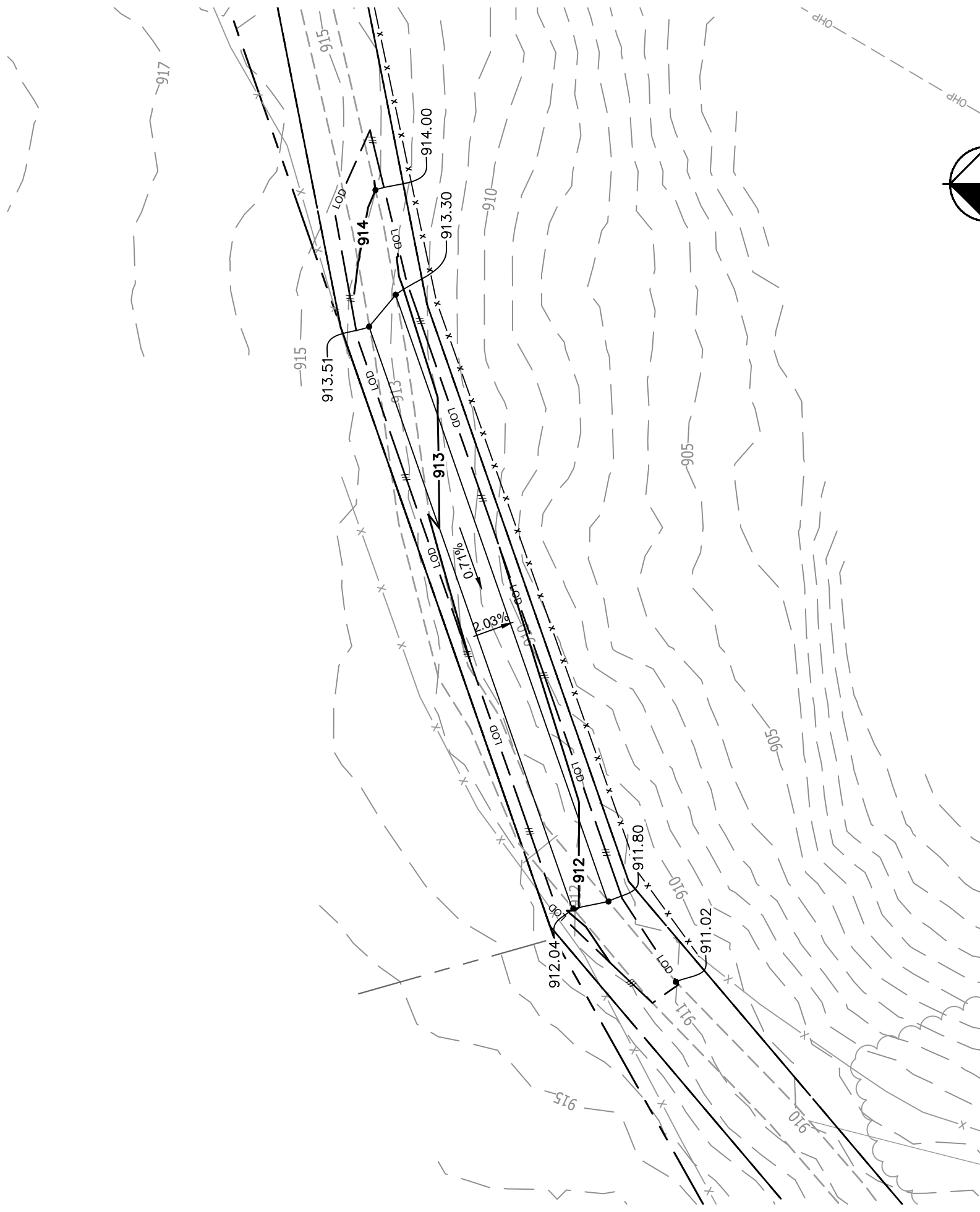
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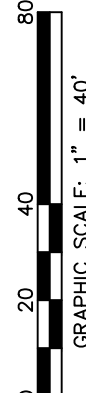
LEGEND

- EXISTING CONTOURS ————
- PROPOSED CONTOURS ————
- LOD/SILT FENCE ——— LOD ———
- TPF ——— TPF ——— TPF
- EXISTING SPOT ELEVATION x
- PROPOSED SPOT ELEVATION ●



1 GRADING & EROSION CONTROL PLAN

C8.2 SCALE: 1" = 40'





10300 OLD ALABAMA ROAD, CONNECTOR  
ALPHARETTA, GEORGIA 30022

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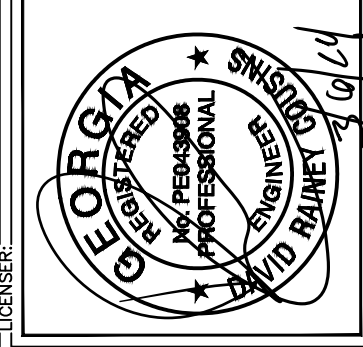
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DRAWN BY: CHECKED BY:

TDM

TRN

SHEET TITLE:

GRADING AND  
EROSION  
CONTROL DETAILS

SHEET NUMBER:

C9

SEEDING SCHEDULE FOR SUMMER  
CONSTRUCTION ACTIVITIES

SEEDING MIXTURE

Species: Common Bermudagrass  
Rate (lb/acre): 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.

SEEDING SCHEDULE FOR WINTER / SPRING  
CONSTRUCTION ACTIVITIES

SEEDING MIXTURE

Species: Rye (grain)  
Rate (lb/acre): 120  
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)  
Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

SEEDING DATES

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

SOIL AMENDMENTS

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

MULCH

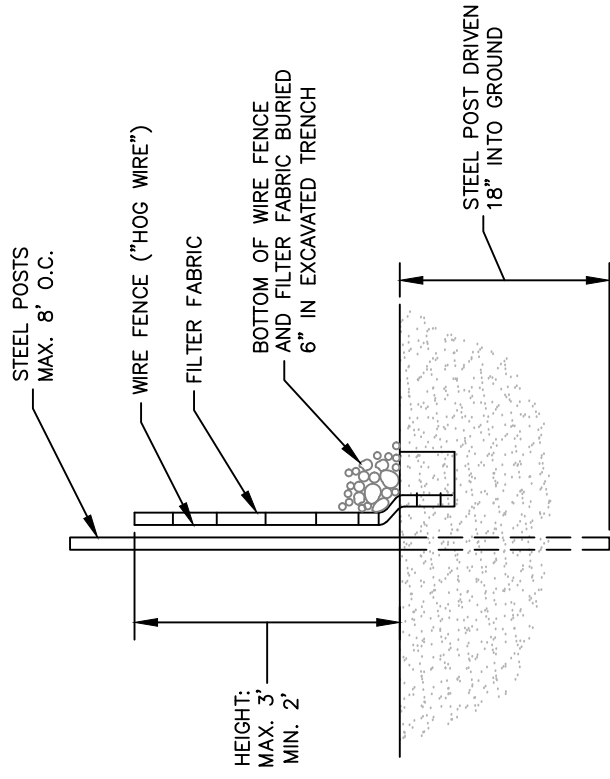
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE

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

EROSION CONTROL NOTES:

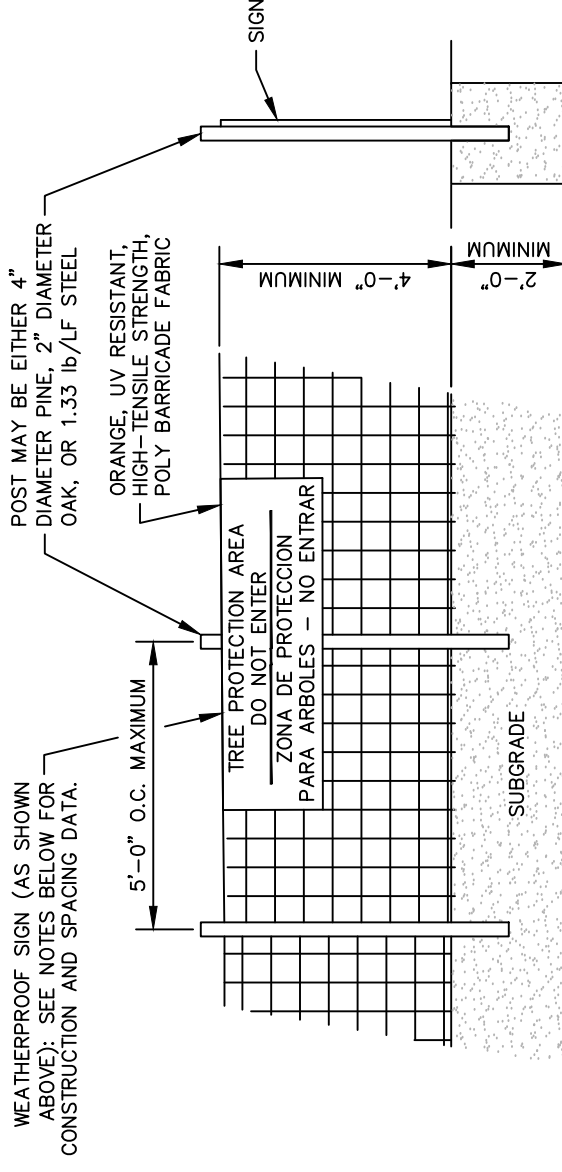
- EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE.
- ALL EXCAVATED SOILS NOT NEEDED ON SITE FOR BACKFILL OPERATIONS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE TAKEN OFF SITE AND LEGALLY DISPOSED OF.
- SOIL REMAINING ON SITE SHALL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



SECTION

1 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 TREE PROTECTION FENCE

NOT TO SCALE



10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

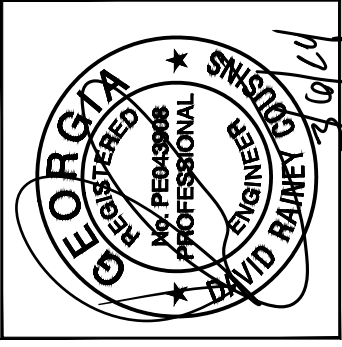
PLANS PREPARED BY:

**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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4			
3	03/06/24	CONSTRUCTION	DRC
2	01/26/22	CONSTRUCTION	DRC
1	08/31/21	CONSTRUCTION	DRC
0	05/18/21	CONSTRUCTION	DRC
A	04/29/21	PRELIMINARY	DRC

LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

TDM

CHECKED BY:

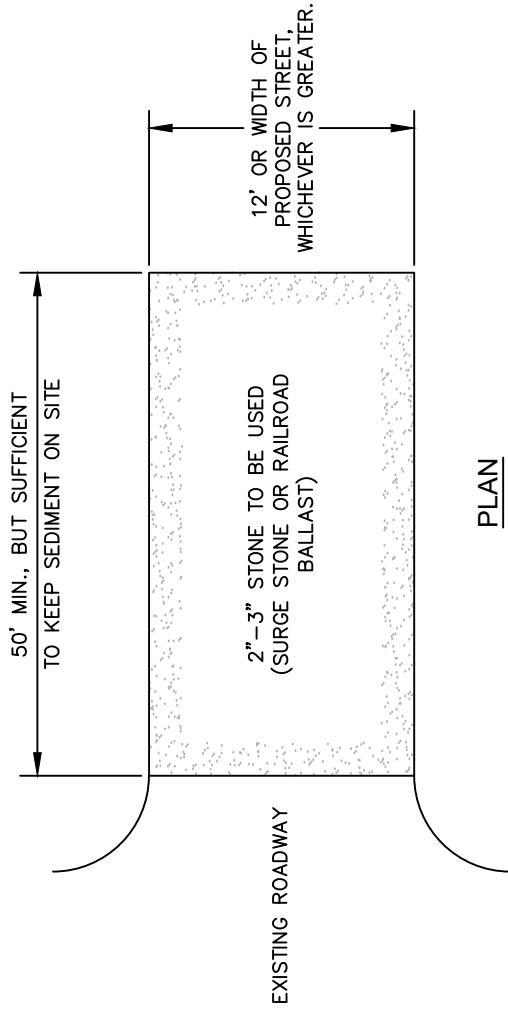
TRN

SHEET TITLE:

ACCESS ROAD  
DETAILS

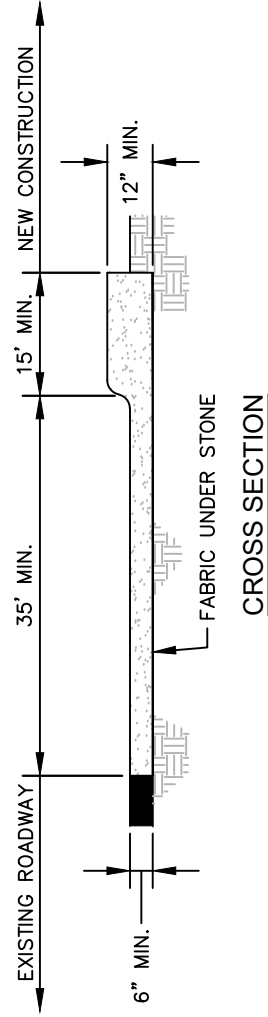
SHEET NUMBER:

C10



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

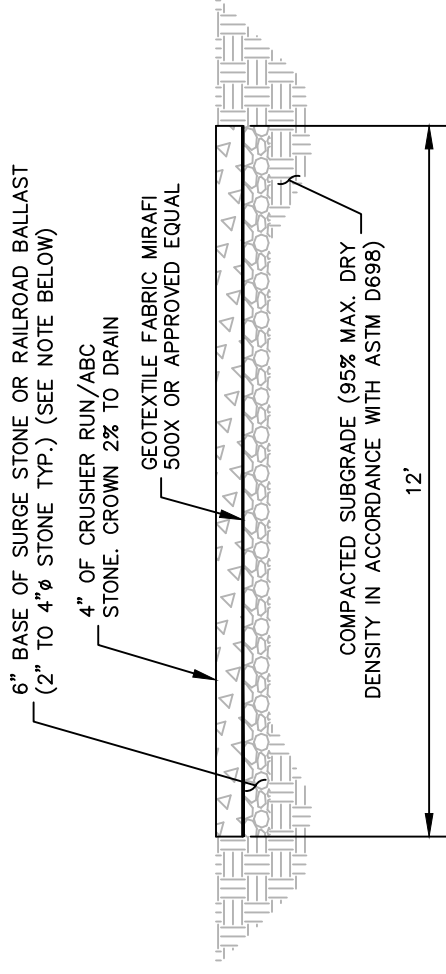
**1** CONSTRUCTION ENTRANCE

NOT TO SCALE

**2**

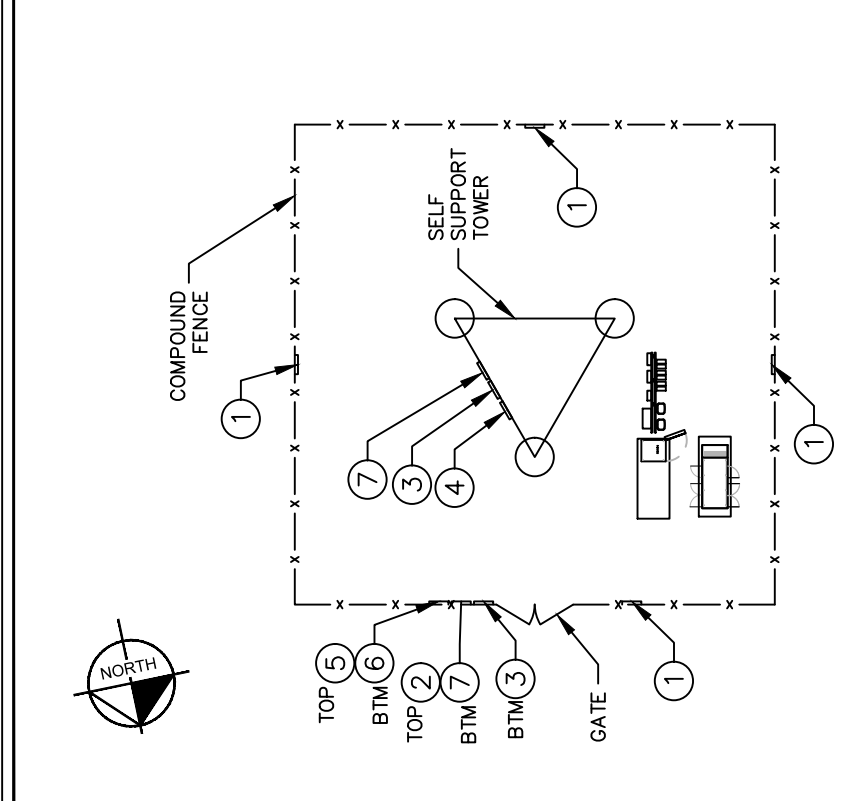
NOT TO SCALE

**2** STANDARD ACCESS ROAD AND TURN-AROUND DETAIL



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

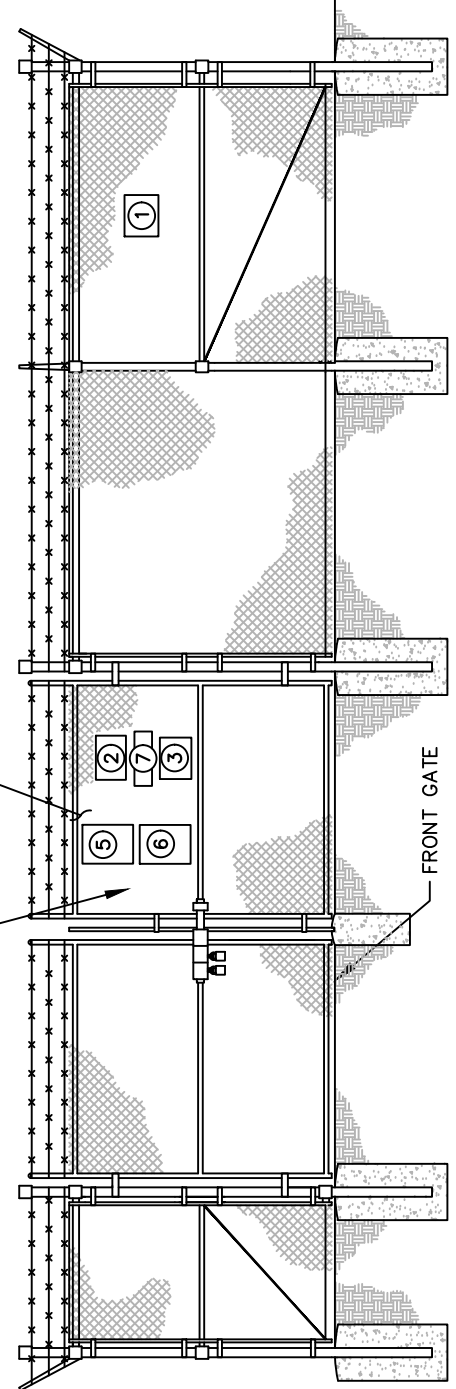




NOTE: SEE TYPICAL SIGNS AND SPECIFICATIONS DETAIL ON THIS SHEET FOR SIGN DESIGNATIONS.

1 SIGN PLACEMENT PLAN VIEW  
C11 NOT TO SCALE

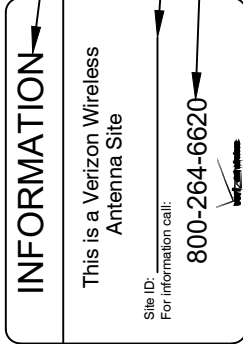
HERE AND ON ANY GATED ACCESS ENTRY



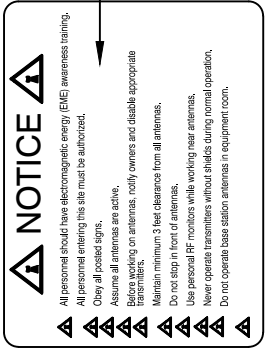
3 SIGN PLACEMENT FRONT GATE VIEW  
C11 NOT TO SCALE



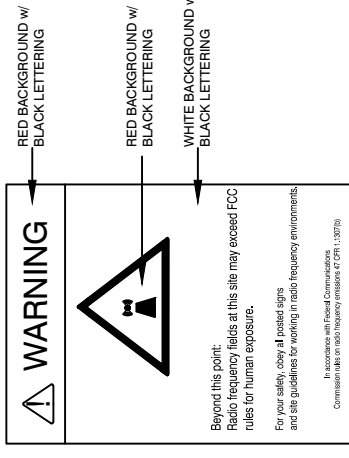
1 NO-TRESPASSING SIGN  
18" HIGH X 24" WIDE  
(OPERATIONS PROVIDED)



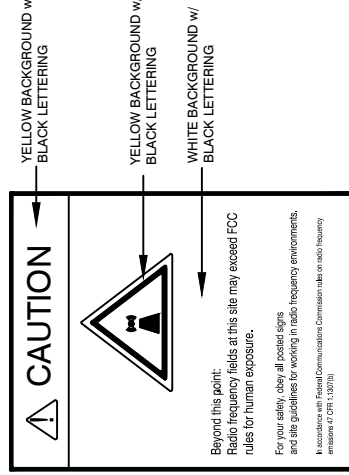
2 VERIZON WIRELESS - SITE ID SIGN  
15" HIGH X 23" WIDE  
(OPERATIONS PROVIDED)



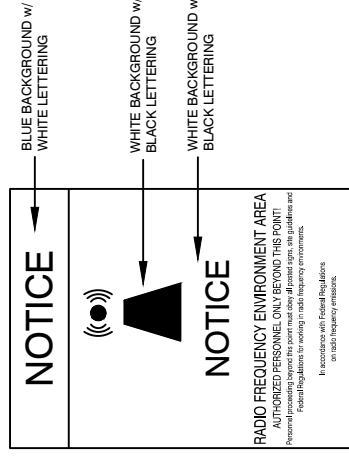
3 NOTICE-RFE SIGN  
12" WIDE X 18" HIGH  
(OPERATIONS PROVIDED)



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 TYPICAL SIGNS AND SPECIFICATIONS  
C11 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.

**verizon**  
10300 OLD ALABAMA ROAD, CONNECTOR  
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:  
SITE NAME: POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL 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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A	04/29/21	PRELIMINARY	DRC

LICENSER:  
**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
DAVID RAJNEY  
No. PE043906  
2/2/2019

KHA PROJECT NUMBER: 013509266  
DRAWN BY: TDM  
CHECKED BY: TRN  
SHEET TITLE: SITE SIGNAGE DETAILS  
SHEET NUMBER: C11

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

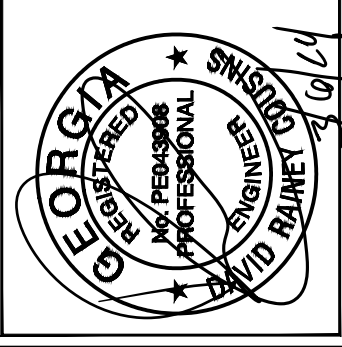
PLANS PREPARED BY:

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11720 AMBER PARK DRIVE, SUITE 600  
ALPHARETTA, GA 30009  
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LICENSER:



KHA PROJECT NUMBER:

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DRAWN BY: CHECKED BY:

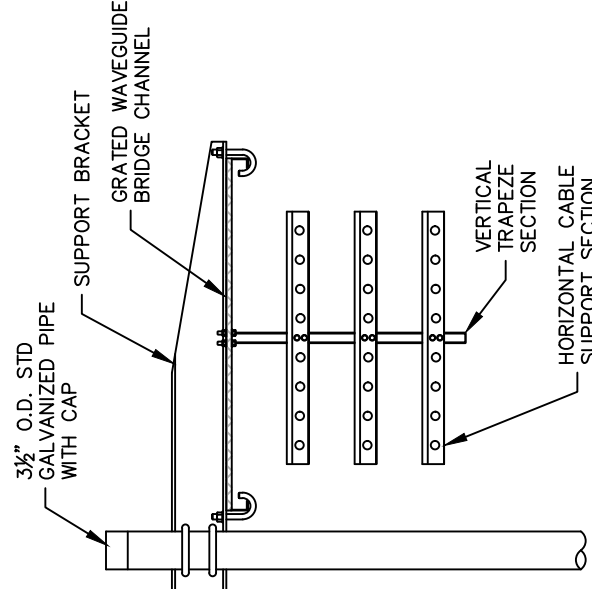
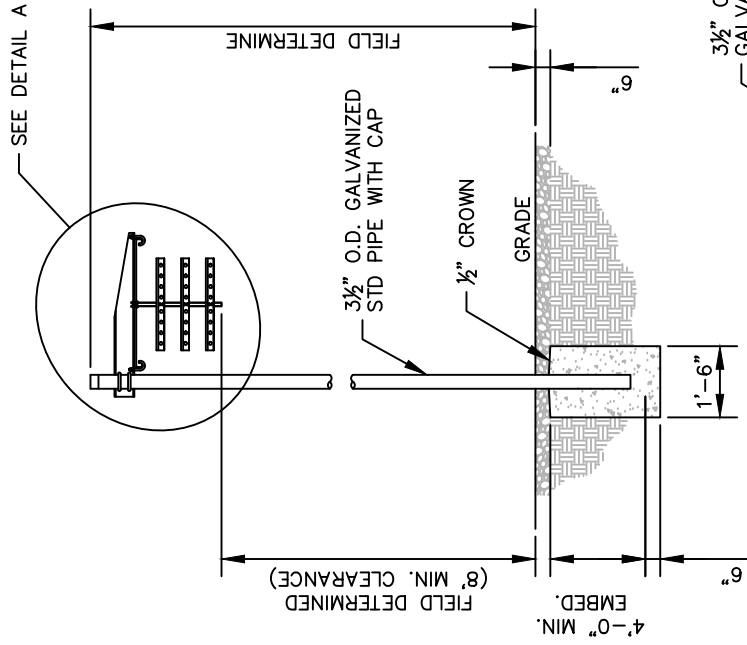
TDM TRN

SHEET TITLE:

WAVEGUIDE  
BRIDGE DETAILS

SHEET NUMBER:

C12



**DETAIL A**

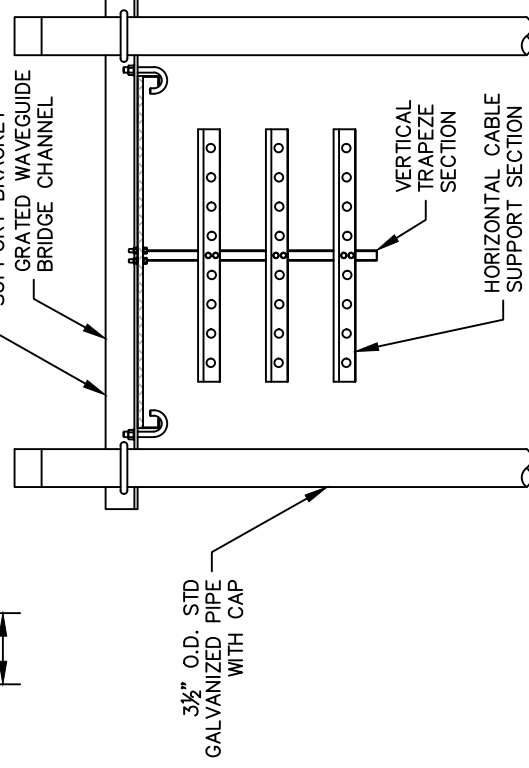
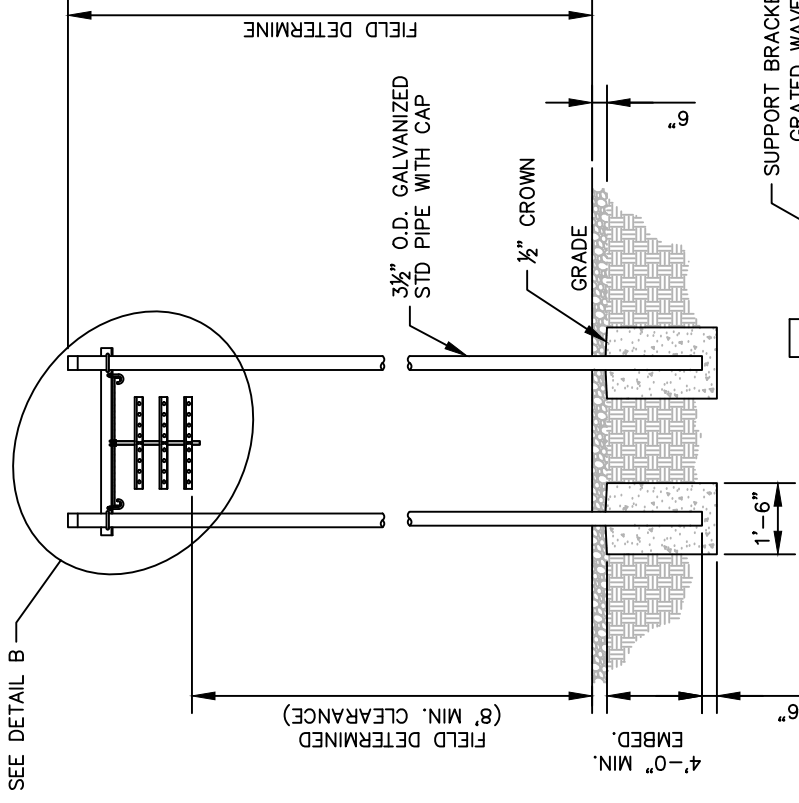
ANDREW 1 POST WAVEGUIDE BRIDGE  
KIT (PART #: WB-K210-B15, OR  
APPROVED EQUIVALENT)

**NOTE:**

1. ALL MATERIALS FURNISHED BY CONTRACTOR  
UNLESS OTHERWISE NOTED.

**1 WAVEGUIDE BRIDGE DETAIL**

C12 NOT TO SCALE



**DETAIL B**

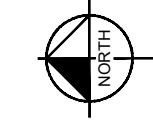
ANDREW 2 POST WAVEGUIDE BRIDGE  
KIT (PART #: WB-K410-B15, OR  
APPROVED EQUIVALENT)

**NOTE:**

1. ALL MATERIALS FURNISHED BY CONTRACTOR  
UNLESS OTHERWISE NOTED.

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

C12 NOT TO SCALE



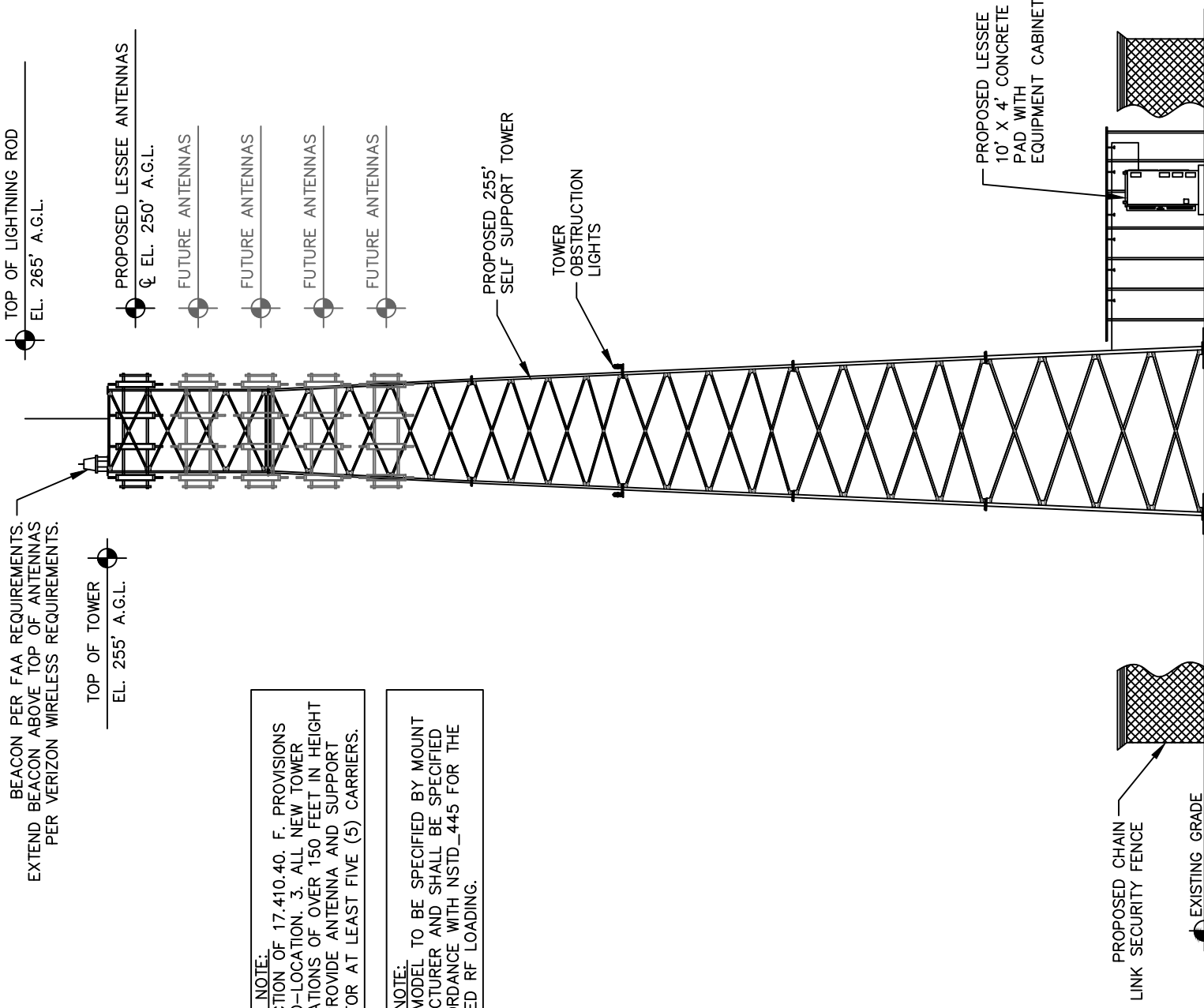
NOTE:  
RADIO FREQUENCY DESIGN SHEET NOT AVAILABLE AT THIS TIME. PLEASE REFER TO THE CONSTRUCTION RFDS FOR FINAL ANTENNA AND APPURTENANCE CONFIGURATIONS.

**1**  
**C13**  
**ANTENNA ORIENTATION PLAN**

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

**CARRIER NOTE:**  
PER SECTION OF 17.410.40. F. PROVISIONS FOR CO-LOCATION. 3. ALL NEW TOWER INSTALLATIONS OF OVER 150 FEET IN HEIGHT SHALL PROVIDE ANTENNA AND SUPPORT SPACE FOR AT LEAST FIVE (5) CARRIERS.

**MOUNT NOTE:**  
MOUNT MODEL TO BE SPECIFIED BY MOUNT MANUFACTURER AND SHALL BE SPECIFIED IN ACCORDANCE WITH NSTD\_445 FOR THE PROPOSED RF LOADING.



**2**  
**C13**  
**SELF SUPPORT TOWER ELEVATION - N VIEW (FACING S)**

NOT TO SCALE

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.

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.



10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

**PROJECT INFORMATION:**

**SITE NAME:**  
POND FORK  
**SITE No.:** 581347  
**FUZE PROJECT #:** 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

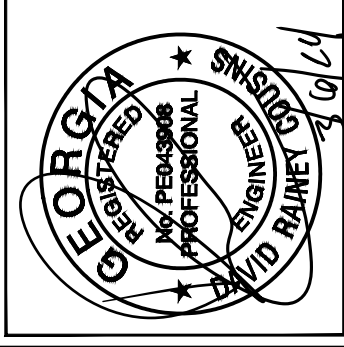
**PLANS PREPARED BY:**

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

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A	04/29/21	PRELIMINARY	DRC

**LICENSER:**



**KHA PROJECT NUMBER:**

013509266

**DRAWN BY: CHECKED BY:**

TDM TRN

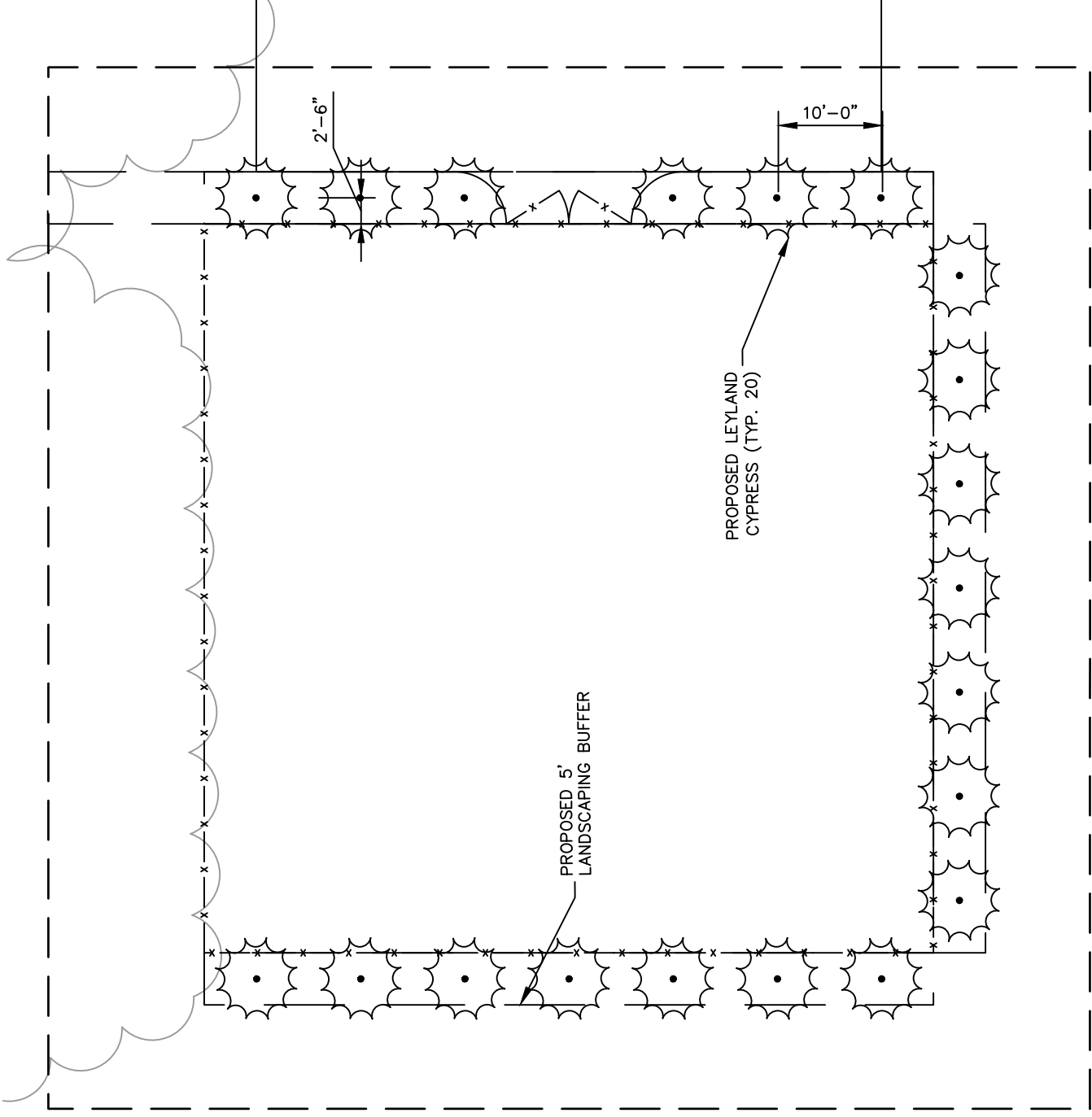
**SHEET TITLE:**

**ANTENNA AND  
TOWER ELEVATION  
DETAILS**

**SHEET NUMBER:**

C13

**NOTE:**  
EXISTING NATURAL VEGETATION TO BE MAINTAINED AS A BUFFER ALONG WESTERLY SIDE OF COMPOUND.



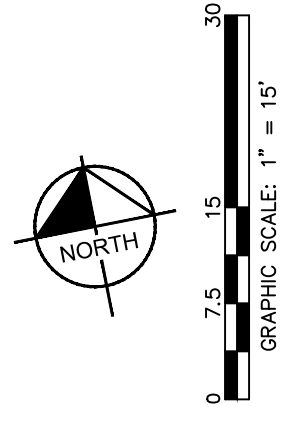
**1**  
L1 LANDSCAPING PLAN  
SCALE: 1" = 15'

PLANTING LIST					
SYM./KEY	QTY.	BOTANICAL NAME	SPECIFICATION		
			ROOT	PLANTING MIN. HEIGHT	SPACING
TO	20	CUPRESSUS LEYLANDII	B&B	8'	10' O.C.

LEGEND	
	LEYLAND CYPRESS

**GENERAL LANDSCAPE NOTES:**

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS WORK WITH THAT OF ALL OTHER CONTRACTORS. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITIES. PRIOR TO COMMENCEMENT OF ANY WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES.
2. THE QUALITY AND SIZE OF ALL PLANT MATERIAL SHALL CONFORM TO THE MOST CURRENT STANDARDS AS SET FORTH IN ANSI Z60.180 - AMERICAN STANDARD FOR NURSERY STOCK.
3. ALL DISTURBED AREAS NOT COVERED BY HARDSCAPE OR PLANT MATERIALS SHALL BE COVERED WITH SEED AND STRAW.
4. PLANT SUBSTITUTION MAY BE PERMITTED ONLY AFTER PROOF THAT SPECIFIED PLANTS ARE UNAVAILABLE AND THE REQUEST HAS BEEN SUBMITTED TO THE OWNER OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL PROVIDE THE NEAREST EQUIVALENT OBTAINABLE SIZE AND VARIETY OF THE PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS AS THE PLANT SPECIFIED
5. MINOR PLANT LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD TO ENSURE ACCESS TO UTILITY JUNCTION BOXES, FREE SITE LIGHTING OF FUTURE TREE CANOPY INTERFERENCE AND ALLOW UNINHIBITED PEDESTRIAN / VEHICULAR CIRCULATION ON ALL PAVEMENTS OR FOUNDATIONS.
6. ALL SHRUB MASSES OF TWO OR MORE SHALL BE EDGED INTO A PLANTING BED AND MULCHED PER DETAIL. ALL INDIVIDUAL TREES AND SHRUBS SHALL HAVE A MULCH SAUCER EQUAL IN DIAMETER TO THE PLANTING PIT DIAMETER AND SHALL BE MULCHED AS SHOWN ON THE DETAILS. UNLESS OTHERWISE INDICATED, ALL BED EDGES SHALL BE A DEEP CUT CLEAN SPADE EDGE.
7. THE CONTRACTOR SHALL VERIFY THAT EACH TREE OR SHRUB PIT WILL DRAIN BEFORE INSTALLING PLANT MATERIAL. HE SHALL FILL THE HOLE WITH SIX INCHES (6") OF WATER THAT SHOULD PERCOLATE OUT WITHIN TWENTY-FOUR HOURS. SHOULD ANY AREA NOT DRAIN PROPERLY, A PERFORATED DRAIN LINE SHALL BE INSTALLED, OR THE PLANTS RELOCATED.
8. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF HE ENCOUNTERS ANY UNSUITABLE SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, UTILITY LINES, OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS. SHOULD THE CONTRACTOR NOT NOTIFY THE OWNER OF A PROBLEM AREA, HE WARRANTS THAT THE AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF ALL PLANTS INSTALLED.
9. THE CONTRACTOR SHOULD VERIFY LANDSCAPING/TREE PLANTING LOCATIONS WITH THE PUBLIC UTILITIES DEPARTMENT TO AVOID CONFLICTS WITH WATER, SEWER, AND GAS LINES.
10. PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLE SUPERIOR IN FORM, COMPACTNESS AND SYMMETRY. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECT ADULT EGGS, PUPAE OR LARVAE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH.
11. THERE SHALL BE NO CIRCLING OR GIRDLING ROOTS. CIRCLING ROOTS SHOULD BE CUT IN AT LEAST ONE PLACE.
12. THERE SHOULD BE ONE DOMINANT LEADER TO THE TOP OF THE TREE WITH THE LARGEST BRANCHES SPACED AT LEAST 6 INCHES APART. THERE CAN BE TWO LEADERS IN THE TOP 10% OF THE TREE IF IT IS OTHERWISE OF GOOD QUALITY.
13. THE TREE CANOPY SHOULD BE SYMMETRICAL AND FREE OF LARGE VOIDS. CLEAR TRUNK SHOULD BE NO MORE THAN 40% OF TREE HEIGHT UNLESS OTHERWISE SPECIFIED IN THE PLANTING SPECIFICATIONS. CLEAR TRUNK SHALL BE OF SUFFICIENT HEIGHT TO CLEAR SURROUNDING USES THAT MAY BE IMPACTED BY THE FUTURE GROWTH OF THE TREE.
14. OPEN TRUNK AND BRANCH WOUNDS SHALL BE LESS THAN 10% OF THE CIRCUMFERENCE AT THE WOUND AND NO MORE THAN 2 INCHES TALL. PROPERLY MADE PRUNING CUTS ARE NOT CONSIDERED OPEN TRUNK WOUNDS. THERE SHOULD BE NO CONKS OR BLEEDING, AND THERE SHOULD BE NO SIGNS OF INSECTS OR DISEASE ON MORE THAN 5% OF THE TREE.
15. IF ANY OF THE ABOVE CONDITIONS ARE NOT MET, TREES MAY BE REJECTED.
16. TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING, OR GRADING OF THE SITE BY THE LOCAL ARBORIST.



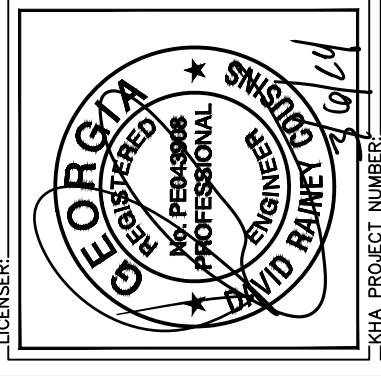
PROJECT INFORMATION:  
 SITE NAME:  
 POND FORK  
 SITE No.: 581347  
 FUZE PROJECT #: 16350691  
 HOLLY SPRINGS ROAD  
 GILLSVILLE, GA 30543  
 HALL COUNTY



PLANS PREPARED BY:

REV: DATE: ISSUED FOR: BY:

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A	04/29/21	PRELIMINARY	DRC



KHA PROJECT NUMBER: 013509266  
 DRAWN BY: TDM  
 CHECKED BY: TRN

SHEET TITLE: LANDSCAPING PLAN

SHEET NUMBER: L1



# 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 35kW. IF ADDITIONAL POWER IS REQUIRED, THE EXISTING 35kW 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.



10300 OLD ALABAMA ROAD, CONNECTOR  
ALPHARETTA, GEORGIA 30022

### PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

### PLANS PREPARED BY:

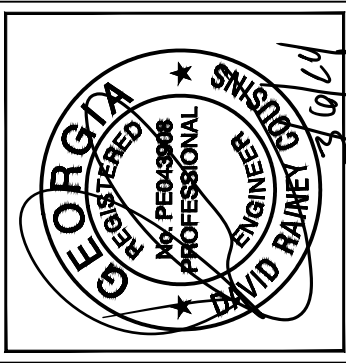
**Kimley»Horn**

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

### REV: DATE: ISSUED FOR: BY:

REV	DATE	ISSUED FOR	BY
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3	03/06/24	CONSTRUCTION	DRC
2	01/26/22	CONSTRUCTION	CCH
1	08/31/21	CONSTRUCTION	CCH
0	05/18/21	CONSTRUCTION	CCH
A	04/29/21	PRELIMINARY	CCH

### LICENSER:



### KHA PROJECT NUMBER:

013509266

### DRAWN BY: CHECKED BY:

TDM TRN

### SHEET TITLE:

ELECTRICAL  
NOTES

### SHEET NUMBER:

E1



10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

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POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
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GILLSVILLE, GA 30543  
HALL COUNTY

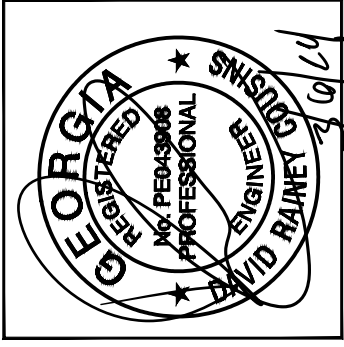
PLANS PREPARED BY:

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ALPHARETTA, GA 30009  
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A	04/29/21	PRELIMINARY	CCH

LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

TDM

CHECKED BY:

TRN

SHEET TITLE:

UTILITY SERVICE  
ROUTING PLAN

SHEET NUMBER:

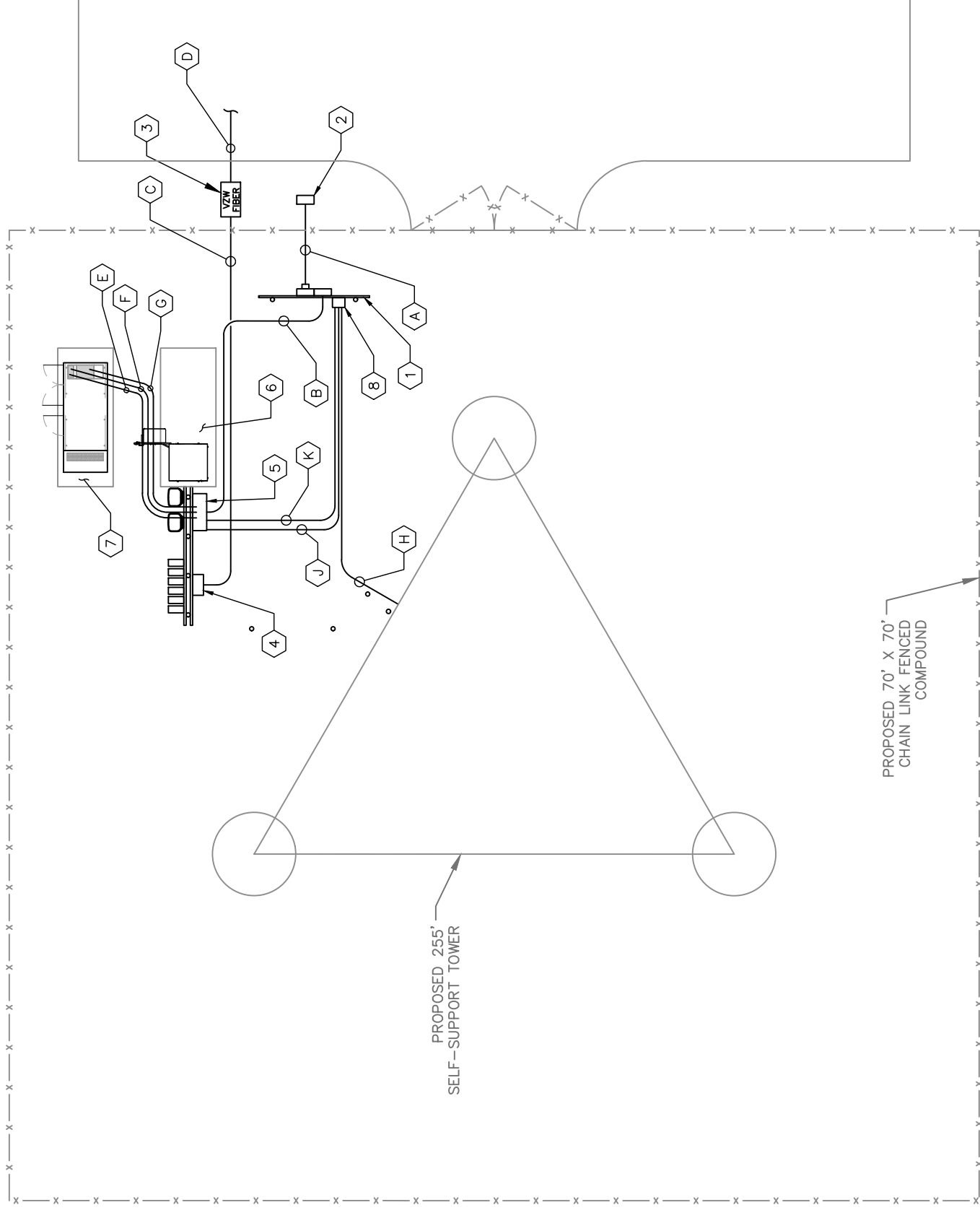
E2

**KEY NOTES - ELECTRICAL EQUIPMENT**

- 1 UTILITY METER H-FRAME (SEE DETAIL 1/E4).
- 2 POWER STUB UP (SEE NOTE 4.04 ON SHEET E1).
- 3 TRAFFIC RATED TELCO VAULT LABELED "VZW FIBER". (SEE NOTE 4.05 ON SHEET E1)
- 4 TELCO BOX (SEE SHEET C4).
- 5 INTEGRATED LOAD CENTER (SEE SHEET C4).
- 6 VERIZON CONCRETE EQUIPMENT PAD (SEE SHEET C6).
- 7 VERIZON CONCRETE GENERATOR PAD (SEE SHEET C6).
- 8 HAZARD LIGHTING CONTROL PANEL (SEE SHEET E4.1).

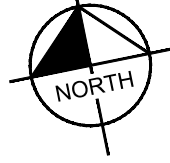
**KEY NOTES - CONDUIT, CONDUCTORS, & MISC.**

- A TWO (2) 4" PVC POWER CONDUITS FOR INCOMING SERVICE LATERALS FROM LOCAL UTILITY (SEE TRENCH DETAIL 2/E7).
- B 2" PVC POWER CONDUIT FROM PROPOSED METER RACK TO EQUIPMENT RACK (SEE TRENCH DETAIL 2/E7).
- C 4" PVC TELCO CONDUIT, WITH TWO (2) PULL ROPES (SEE TRENCH DETAIL 2/E7).
- D TWO (2) 2" PVC CONDUITS FROM RIGHT OF WAY W/TWO (2) PULL ROPES (SEE TRENCH DETAIL 2/E7 AND SHEET E3).
- E 2" PVC POWER CONDUIT TO THE GENERATOR (SEE TRENCH DETAIL 2/E7).
- F 1" PVC CONDUIT FOR ROUTING GENERATOR CONTROL AND ALARM SIGNAL CABLES TO THE GENERATOR (SEE TRENCH DETAIL 2/E7).
- G 1" PVC CONDUIT FOR ROUTING POWER CONDUCTOR TO THE GENERATOR BATTERY CHARGER AND THE GENERATOR BLOCK HEATER (SEE TRENCH DETAIL 2/E7).
- H 1" PVC POWER CONDUIT FROM PROPOSED HAZARD LIGHTING CONTROL PANEL ON METER RACK TO TOWER LIGHTING.
- J 1" PVC TELCO CONDUIT FROM PROPOSED HAZARD LIGHTING CONTROL PANEL TO PROPOSED ILC.
- K 1" PVC POWER CONDUIT FROM PROPOSED HAZARD LIGHTING CONTROL PANEL TO PROPOSED ILC.



1 E2 UTILITY SERVICE ROUTING PLAN

SCALE: 1" = 10'



GRAPHIC SCALE: 1" = 10'



10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

PLANS PREPARED BY:

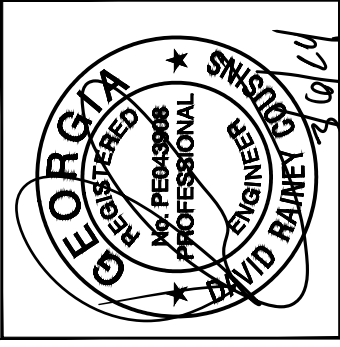


11720 AMBER PARK DRIVE, SUITE 600  
ALPHARETTA, GA 30009  
PHONE: 770-619-4280  
WWW.KIMLEY-HORN.COM

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A	04/29/21	PRELIMINARY	CCH

LICENSER:



KHA PROJECT NUMBER:

013509266

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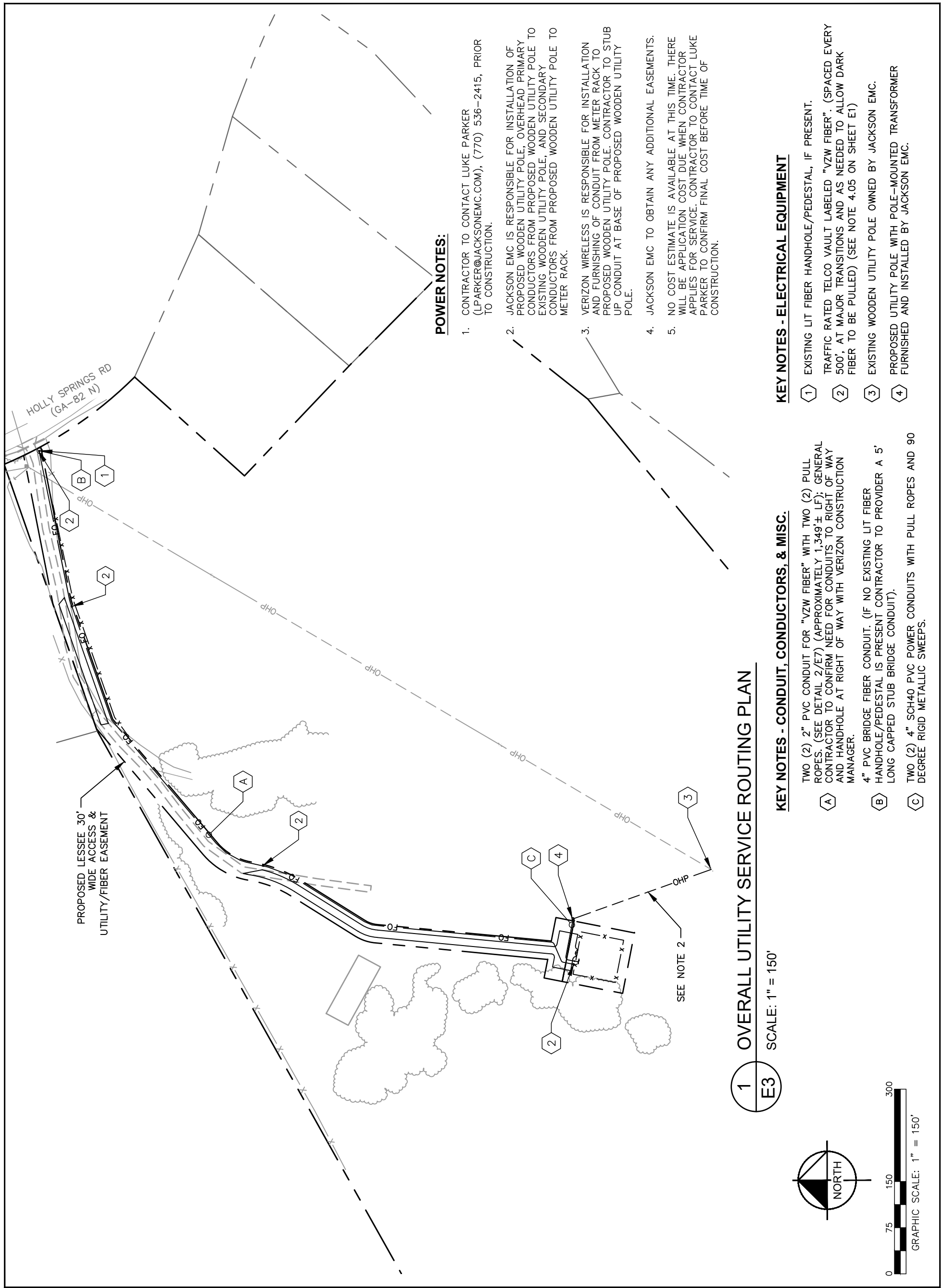
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SHEET TITLE:

OVERALL UTILITY ROUTING PLAN

SHEET NUMBER:

E3



**POWER NOTES:**

1. CONTRACTOR TO CONTACT LUKE PARKER (LPARKER@JACKSONEMC.COM), (770) 536-2415, PRIOR TO CONSTRUCTION.
2. JACKSON EMC IS RESPONSIBLE FOR INSTALLATION OF PROPOSED WOODEN UTILITY POLE, OVERHEAD PRIMARY CONDUCTORS FROM PROPOSED WOODEN UTILITY POLE TO EXISTING WOODEN UTILITY POLE, AND SECONDARY CONDUCTORS FROM PROPOSED WOODEN UTILITY POLE TO METER RACK.
3. VERIZON WIRELESS IS RESPONSIBLE FOR INSTALLATION AND FURNISHING OF CONDUIT FROM METER RACK TO PROPOSED WOODEN UTILITY POLE. CONTRACTOR TO STUB UP CONDUIT AT BASE OF PROPOSED WOODEN UTILITY POLE.
4. JACKSON EMC TO OBTAIN ANY ADDITIONAL EASEMENTS.
5. NO COST ESTIMATE IS AVAILABLE AT THIS TIME. THERE WILL BE APPLICATION COST DUE WHEN CONTRACTOR APPLIES FOR SERVICE. CONTRACTOR TO CONTACT LUKE PARKER TO CONFIRM FINAL COST BEFORE TIME OF CONSTRUCTION.

**KEY NOTES - ELECTRICAL EQUIPMENT**

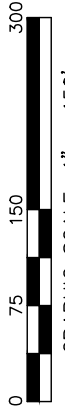
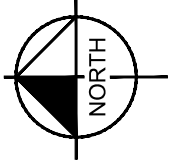
- 1 EXISTING LIT FIBER HANDHOLE/PEDESTAL, IF PRESENT.
- 2 TRAFFIC RATED TELCO VAULT LABELED "VZW FIBER". (SPACED EVERY 500', AT MAJOR TRANSITIONS AND AS NEEDED TO ALLOW DARK FIBER TO BE PULLED) (SEE NOTE 4.05 ON SHEET E1)
- 3 EXISTING WOODEN UTILITY POLE OWNED BY JACKSON EMC.
- 4 PROPOSED UTILITY POLE WITH POLE-MOUNTED TRANSFORMER FURNISHED AND INSTALLED BY JACKSON EMC.

**KEY NOTES - CONDUIT, CONDUCTORS, & MISC.**

- A TWO (2) 2" PVC CONDUIT FOR "VZW FIBER" WITH TWO (2) PULL ROPES. (SEE DETAIL 2/E7) (APPROXIMATELY 1,349 ± LF); GENERAL CONTRACTOR TO CONFIRM NEED FOR CONDUITS TO RIGHT OF WAY AND HANDHOLE AT RIGHT OF WAY WITH VERIZON CONSTRUCTION MANAGER.
- B 4" PVC BRIDGE FIBER CONDUIT. (IF NO EXISTING LIT FIBER HANDHOLE/PEDESTAL IS PRESENT CONTRACTOR TO PROVIDER A 5' LONG CAPPED STUB BRIDGE CONDUIT).
- C TWO (2) 4" SCH40 PVC POWER CONDUITS WITH PULL ROPES AND 90 DEGREE RIGID METALLIC SWEEPS.

**1 OVERALL UTILITY SERVICE ROUTING PLAN**

SCALE: 1" = 150'



GRAPHIC SCALE: 1" = 150'

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

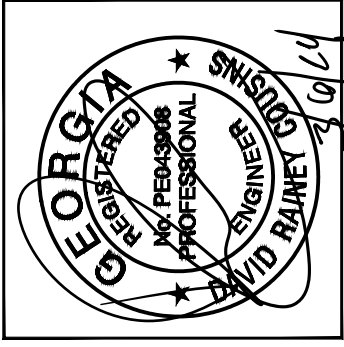
PLANS PREPARED BY:

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

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3	03/06/24	CONSTRUCTION	DRC
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0	05/18/21	CONSTRUCTION	CCH
A	04/29/21	PRELIMINARY	CCH

LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

TDM

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TRN

SHEET TITLE:

METER RACK  
DETAILS - FRONT

SHEET NUMBER:

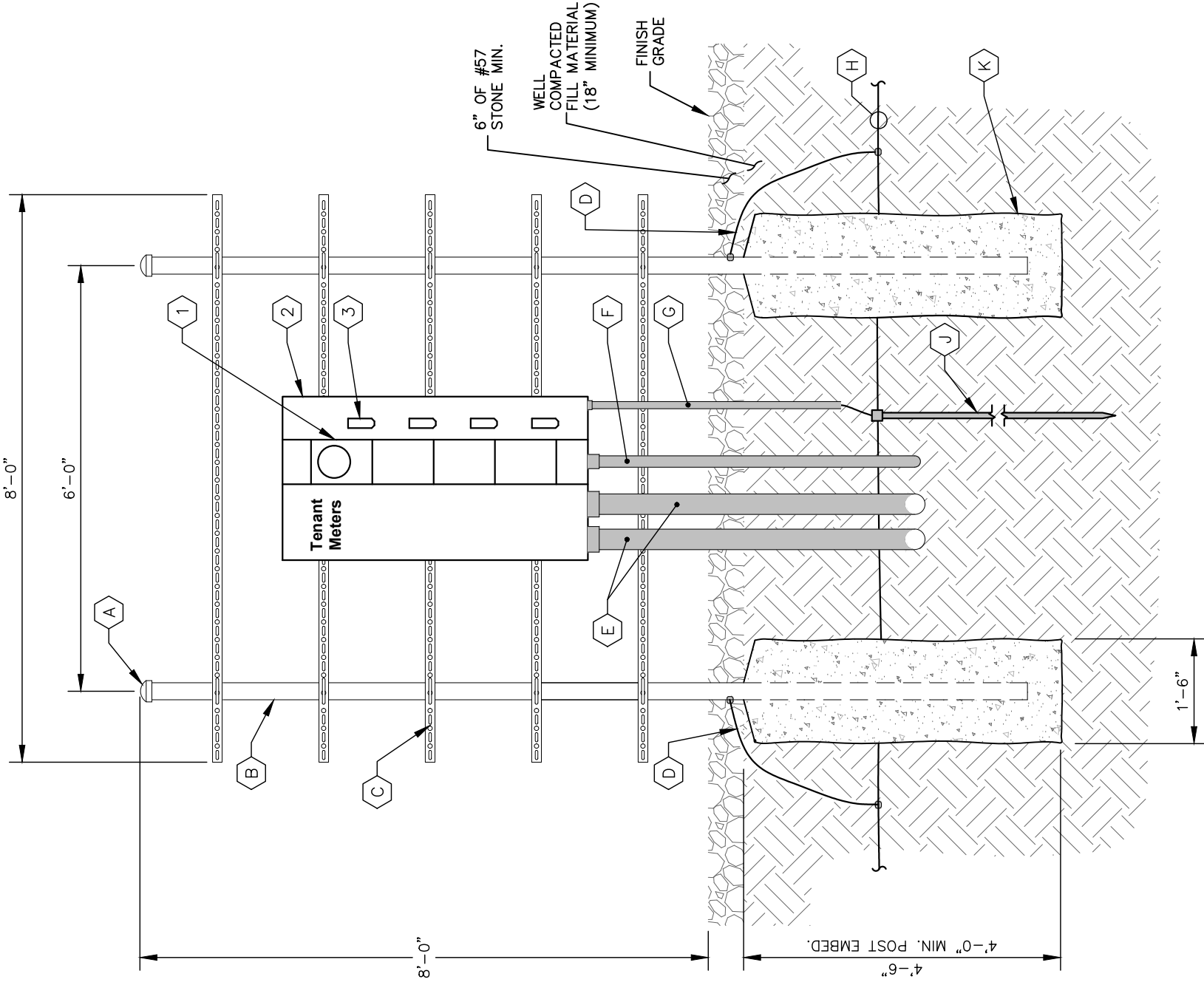
E4

**KEY NOTES - CONDUIT, CONDUCTORS, & MISC**

- (A) GALVANIZED RIGID STEEL CAP, TYPICAL.
- (B) 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- (C) 1½" x 1½" 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.
- (F) 2" PVC CONDUIT FOR ROUTING FEEDERS TO THE ILC.
- (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.
- (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.



NOTE: 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.

1 METER RACK DETAILS - FRONT  
E4 NOT TO SCALE



PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

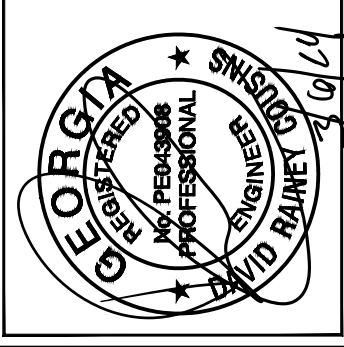
PLANS PREPARED BY:

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ALPHARETTA, GA 30009  
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LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

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SHEET TITLE:

METER RACK  
DETAILS - REAR

SHEET NUMBER:

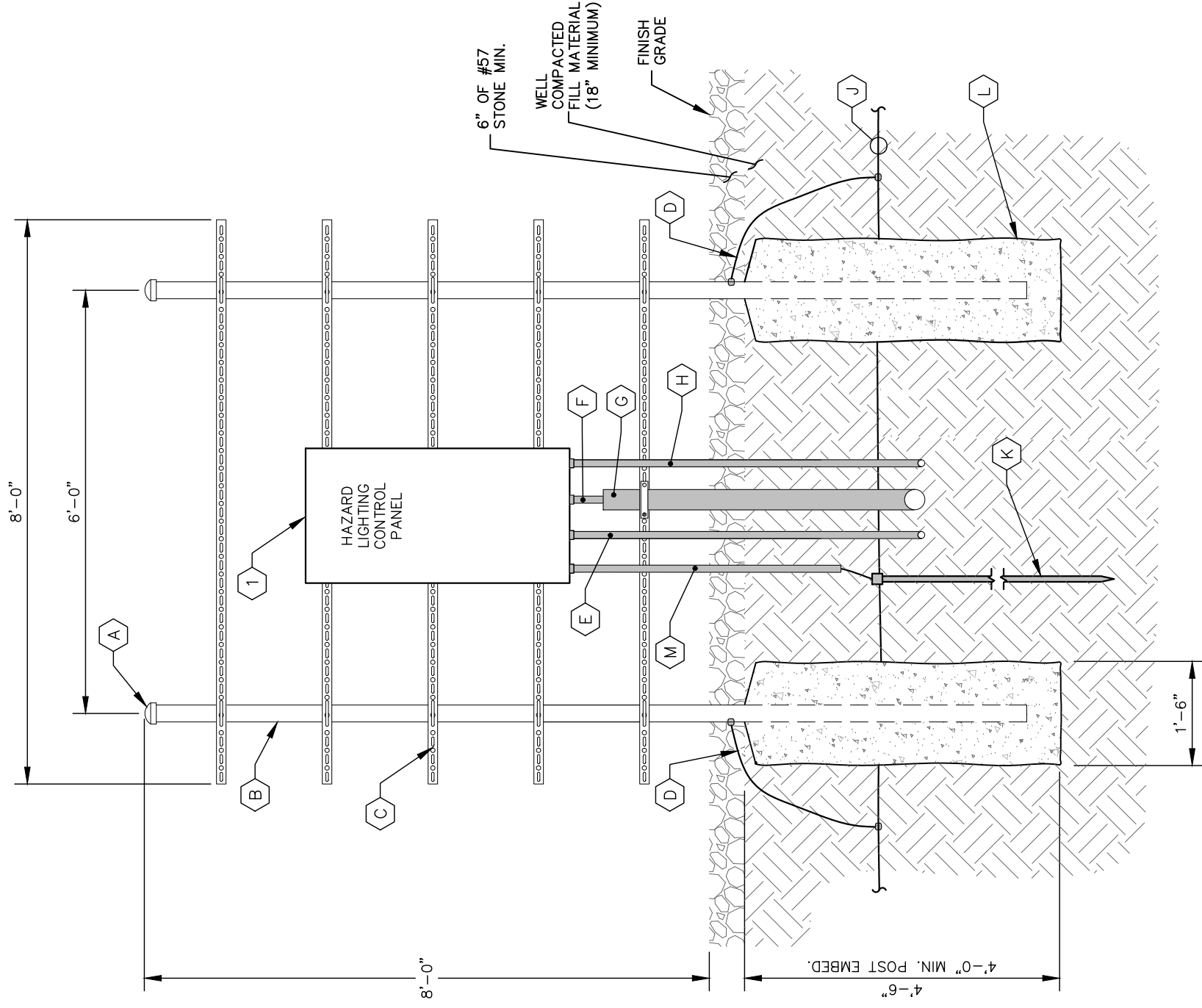
E4.1

**KEY NOTES - CONDUIT, CONDUCTORS, & MISC**

- A GALVANIZED RIGID STEEL CAP, TYPICAL.
- B 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- C 1½" x 1½" 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" PVC CONDUIT FOR POWER CABLES FROM INTEGRATED LOAD CENTER.
- F FLASH HEAD CABLE.
- G 2½" FLASH HEAD CABLE PROTECTION CONDUIT (MIN. 18" BELOW GRADE). TRANSITION TO 1" PVC CONDUIT FOR UNDERGROUND ROUTING TO TOWER.
- H 1" PVC CONDUIT FOR TELECOM LINK FROM INTEGRATED LOAD CENTER.
- J GROUND RING (SEE SHEETS E7 - E11).
- K GROUND ROD, EXOTHERMIC WELD TO GROUND RING. (SEE "GROUNDING SINGLE-LINE DIAGRAM" SHEET FOR DETAILS).
- L CONCRETE FOUNDATION FOR H-FRAME VERTICAL PIPE. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AND INCLUDE FIBERMESH 300-3E.
- M ¾" PVC WITH ONE (1) - #2 AWG BARE TINNED COPPER GROUND LEAD FROM GROUNDING LUG TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD.

**KEY NOTES - ELECTRICAL EQUIPMENT**

- 1 HAZARD LIGHTING CONTROL PANEL IN NEMA 4X ENCLOSURE.



NOTE: FOR CLARITY PURPOSES, THE REAR ELEVATION OF THE "H" FRAME ONLY SHOWS EQUIPMENT AND CONDUIT ASSOCIATED WITH THE REAR SIDE. SEE SHEET E4 FOR DETAILS ASSOCIATED WITH EQUIPMENT AND CONDUIT MOUNTED ON THE FRONT SIDE OF THE "H" FRAME.

1 METER RACK DETAILS - REAR  
E4.1 NOT TO SCALE

PROJECT INFORMATION:

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POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

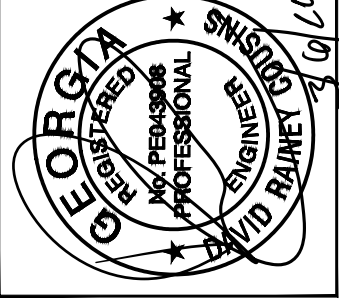
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11720 AMBER PARK DRIVE, SUITE 600  
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LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

TDM

CHECKED BY:

TRN

SHEET TITLE:

**ELECTRICAL  
SINGLE LINE  
DIAGRAM**

SHEET NUMBER:

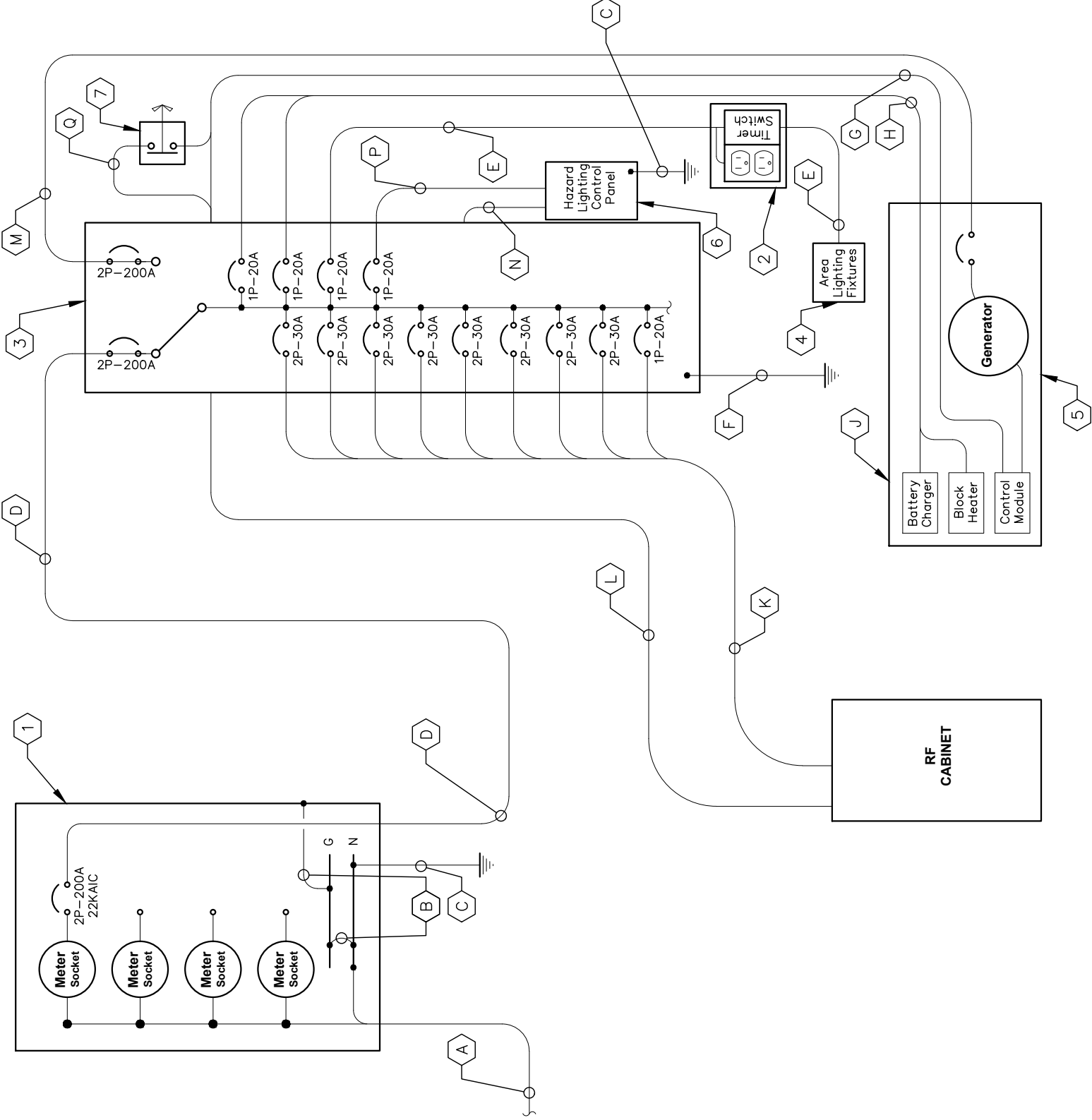
E5

**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 AWG BARE TINNED COPPER GROUNDING ELECTRODE CONDUCTOR (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 AWG BARE TINNED COPPER GROUND LEAD FROM GROUNDING LUG 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 SIXTEEN (16) #6 AWG CONDUCTORS AND FOUR (4) #6 EG FOR 30 AMP CIRCUITS. TWO (2) #8 AWG CONDUCTORS AND ONE (1) #8 EG FOR 20 AMP CIRCUIT. ALL IN 2" PVC CONDUIT.
- L ALARM CABLES IN 1" PVC CONDUIT.
- M THREE (3) 2/0 AWG CONDUCTORS AND ONE (1) #6 AWG EG IN 2" CONDUIT. VERIFY GENERATOR BREAKER DOES NOT EXCEED 175 AMPS.
- N 1" PVC CONDUIT FOR POWER CABLES FROM INTEGRATED LOAD CENTER TO HAZARD LIGHTING CONTROL PANEL.
- P 1" PVC CONDUIT FOR TELCOM LINK.
- Q 1" PVC CONDUIT FOR ROUTING POWER CONDUCTORS FROM THE ILC TO THE EMERGENCY GENERATOR STOP SWITCH.

**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 TIMER SWITCH, ENERLITES HET06 SERIES (OR APPROVED EQUIVALENT) IN LOCKABLE NEMA 3R ENCLOSURE.
- 3 200 AMP, 120/240 VOLT, ILC BY GENERAC WITH 42 SPACE PANEL AND AUTOMATIC TRANSFER SWITCH. ALL CIRCUIT BREAKERS SHALL BE RATED 10KAIC MINIMUM. ILC IS FURNISHED BY VERIZON AND INSTALLED BY GENERAL CONTRACTOR.
- 4 FURNISH AND INSTALL TWO (2) AREA LIGHTS, (LITHONIA HFR-250M-TA120-DNA-LP1), (OR APPROVED EQUIVALENT).
- 5 35 KW PROPANE 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 FURNISH AND INSTALL HAZARD LIGHTING CONTROL PANEL IN NEMA 4X ENCLOSURE.
- 7 FURNISH AND INSTALL EMERGENCY GENERATOR STOP SWITCH IN NEMA 3R ENCLOSURE.



**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 and the generator circuit breaker must be open."

**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 ELECTRICAL SINGLE LINE DIAGRAM**  
E5 NOT TO SCALE

# PANEL SCHEDULE - VERIZON INTEGRATED LOAD CENTER

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

**MCB Size:** 200 Amps  
**AIC Rating:** 10,000 Amps min  
**Bus Rating:** 200 Amps  
**Neutral Rating:** 100%

Load Served	Load (kVA)		Circuit Bkr Size	Ckt Nbr	Phase		Ckt Nbr	Circuit Bkr Size	Load (kVA)		Load Served
	A	B			A	B			A	B	
*RECTIFIER 1	2.13		2P-30	1	⎓	⎓	2	1P-20	1.54		*AREA LIGHTS/GFCI
*RECTIFIER 2	2.13		2P-30	3	⎓	⎓	4	1P-20	1.50		GEN BLOCK HEATER
*RECTIFIER 3	2.13		2P-30	5	⎓	⎓	6	1P-20	0.30		GEN BATTERY CHARGER
*RECTIFIER 4	2.13		2P-30	7	⎓	⎓	8	1P-20	0.60		TOWER LIGHT
*RECTIFIER 5	2.13		2P-30	9	⎓	⎓	10	1P-20	0.18		CAB DUPLEX OUTLET
*RECTIFIER 6	2.13		2P-30	11	⎓	⎓	12	-----	0.00		SPACE
*RECTIFIER 7	2.13		2P-30	13	⎓	⎓	14	-----	0.00		SPACE
*RECTIFIER 8	2.13		2P-30	15	⎓	⎓	16	-----	0.00		SPACE
RECTIFIER 7 (SPARE)	0.00		2P-30	17	⎓	⎓	18	-----	0.00		SPACE
RECTIFIER 8 (SPARE)	0.00		2P-30	19	⎓	⎓	20	-----	0.00		SPACE
SPACE	0.00		2P-30	21	⎓	⎓	22	-----	0.00		SPACE
SPACE	0.00		2P-30	23	⎓	⎓	24	-----	0.00		SPACE
SPACE	0.00		2P-30	25	⎓	⎓	26	-----	0.00		SPACE
SPACE	0.00		2P-30	27	⎓	⎓	28	-----	0.00		SPACE
SPACE	0.00		2P-30	29	⎓	⎓	30	-----	0.00		SPACE
SPACE	0.00		2P-30	31	⎓	⎓	32	-----	0.00		SPACE
SPACE	0.00		2P-30	33	⎓	⎓	34	-----	0.00		SPACE
SPACE	0.00		2P-30	35	⎓	⎓	36	-----	0.00		SPACE
SPACE	0.00		2P-30	37	⎓	⎓	38	-----	0.00		SPACE
TVSS (INTERNAL TO ILC)	0.00		2P-30	39	⎓	⎓	40	-----	0.00		SPACE
Sub-Total (kVA)	12.78	12.78		41	⎓	⎓	42	-----	0.00		SPACE
Sub-Total (kVA)	14.80	14.88							2.02	2.10	Sub-Total (kVA)

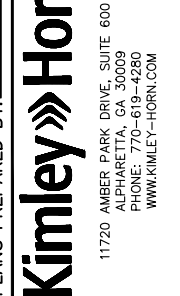
Load Description	Connected Load (kVA)		Demand Factor	Demand Load (kVA)		Total Connected (kVA)	
	A	B		A	B		
RECTIFIERS/EQUIP	12.78	12.78	1.00	12.78	12.78	29.68	
LARGEST MOTOR	0.00	0.00	1.25	0.00	0.00		
ALL OTHER MOTORS	0.00	0.00	1.00	0.00	0.00		
LIGHTING	1.54	0.60	1.25	1.93	0.75		
DUPLEX RECEPTACLES	0.18	0.00	1.25	0.23	0.00		
TOTAL MISCELLANEOUS	0.30	1.50	1.25	0.38	1.88		
<b>Total Power per Phase</b>				15.32	15.41		kVA
<b>Total Demand Current per Phase</b>				127.67	128.42		Amps
<b>Total Demand Power</b>				30.73			kVA
<b>**Generator Load</b>				29.98			kVA

\*NOTE: CIRCUIT LOAD AND DEMAND FACTOR PROVIDED BY VERIZON.  
 \*\*NOTE: CHARGER LOAD REMOVED AND HEATER LOAD DEMAND FACTOR REDUCED TO 1.00 DURING GENERATOR OPERATION.

1 PANEL SCHEDULE  
 E6 NOT TO SCALE



**PROJECT INFORMATION:**  
**SITE NAME:** POND FORK  
**SITE No.:** 581347  
**FUZE PROJECT #:** 16350691  
 4410 HOLLY SPRINGS ROAD  
 GILLSVILLE, GA 30543  
 HALL COUNTY



**PLANS PREPARED BY:**  
 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	03/06/24 CONSTRUCTION DRC
2	01/26/22 CONSTRUCTION CCH
1	08/31/21 CONSTRUCTION CCH
0	05/18/21 CONSTRUCTION CCH
A	04/29/21 PRELIMINARY CCH



**KHA PROJECT NUMBER:** 013509266  
**DRAWN BY:** TDM  
**CHECKED BY:** TRN  
**SHEET TITLE:**

**PANEL SCHEDULE**  
**SHEET NUMBER:** E6



10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

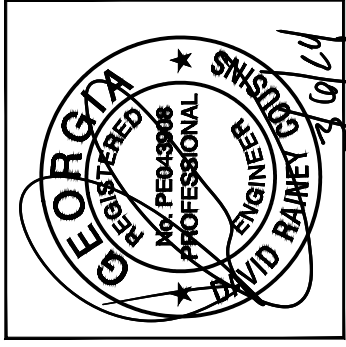
PLANS PREPARED BY:

**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			
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4			
3	03/06/24	CONSTRUCTION DRC	
2	01/26/22	CONSTRUCTION CCH	
1	08/31/21	CONSTRUCTION CCH	
0	05/18/21	CONSTRUCTION CCH	
A	04/29/21	PRELIMINARY CCH	

LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY: CHECKED BY:

TDM

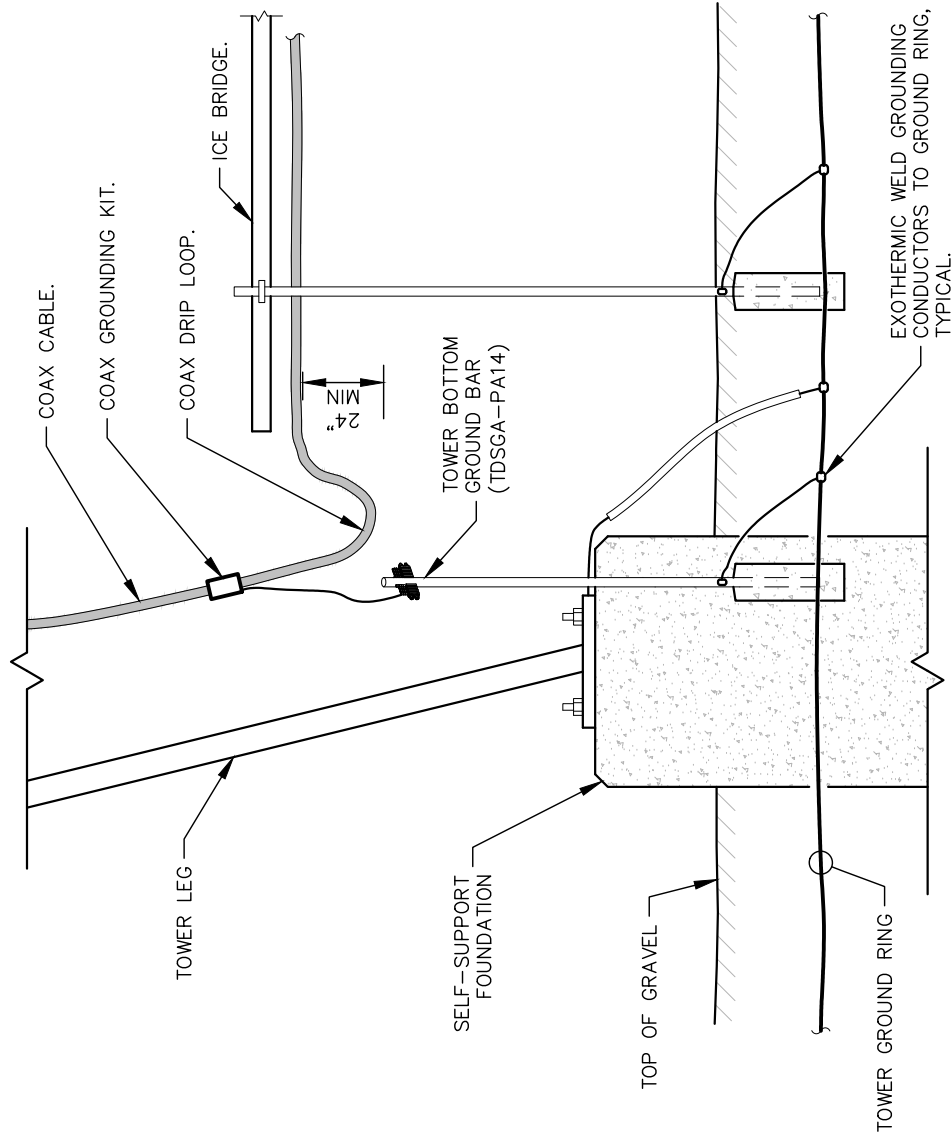
TRN

SHEET TITLE:

ELECTRICAL  
DETAILS

SHEET NUMBER:

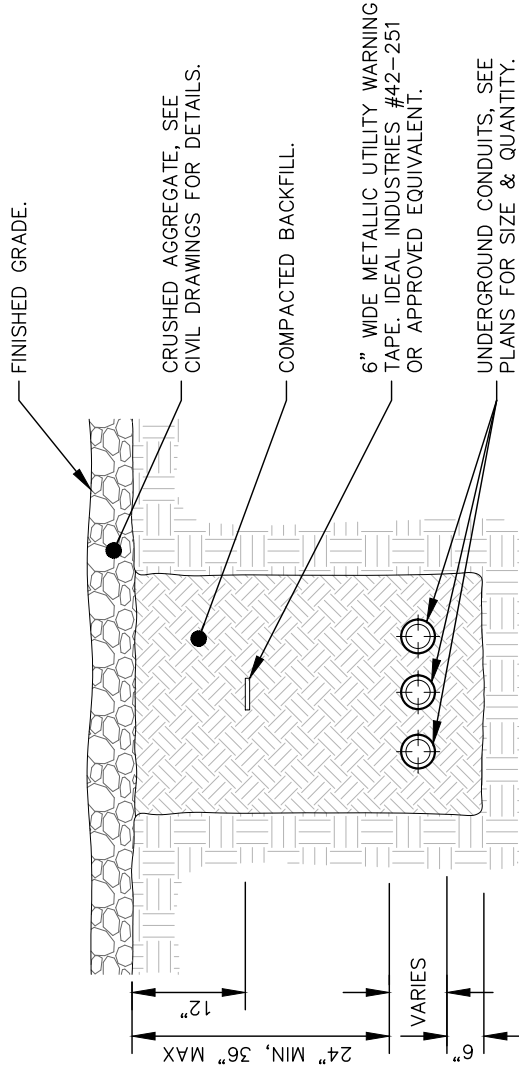
E7



1 DRIP LOOP DETAIL

E7

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 TYPICAL TRENCH DETAIL

E7

NOT TO SCALE



# 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 BANGED 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 GROUND 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 JUMPERERS 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

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

PLANS PREPARED BY:

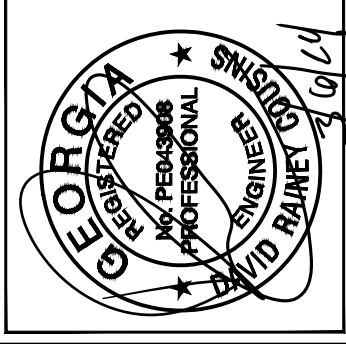
**Kimley»Horn**

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

REV: DATE: ISSUED FOR: BY:

7			
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4			
3	03/06/24	CONSTRUCTION	DRG
2	01/26/22	CONSTRUCTION	CCH
1	08/31/21	CONSTRUCTION	CCH
0	05/18/21	CONSTRUCTION	CCH
A	04/29/21	PRELIMINARY	CCH

LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

TDM

CHECKED BY:

TRN

SHEET TITLE:

**GROUNDING  
NOTES**

SHEET NUMBER:

**E8**

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

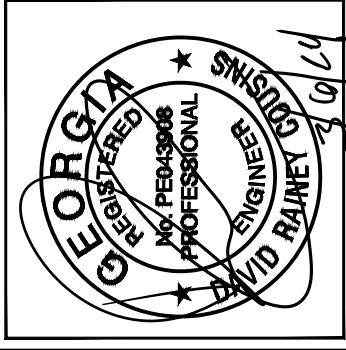
PLANS PREPARED BY:

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

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7			
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3	03/06/24	CONSTRUCTION	DRC
2	01/26/22	CONSTRUCTION	CCH
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0	05/18/21	CONSTRUCTION	CCH
A	04/29/21	PRELIMINARY	CCH

LICENSER:



KHA PROJECT NUMBER:

013509266

DRAWN BY:

TDM

CHECKED BY:

TRN

SHEET TITLE:

**GROUNDING PLAN**

SHEET NUMBER:

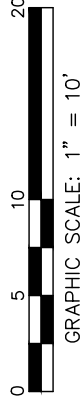
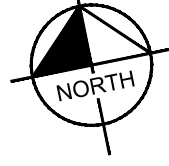
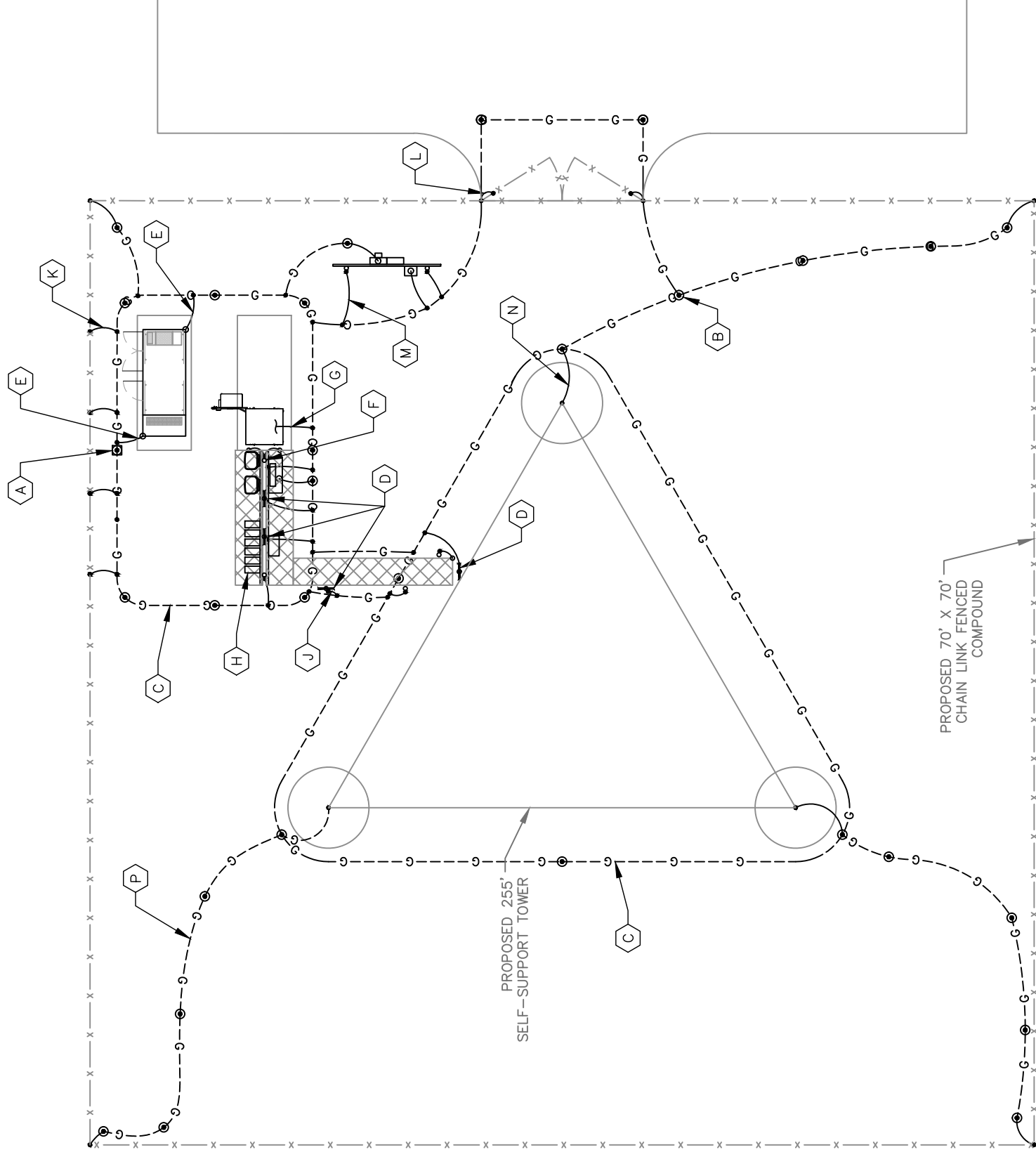
**E9**

**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:**

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



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

PROJECT INFORMATION:

SITE NAME:  
POND FORK  
SITE No.: 581347  
FUZE PROJECT #: 16350691  
4410 HOLLY SPRINGS ROAD  
GILLSVILLE, GA 30543  
HALL COUNTY

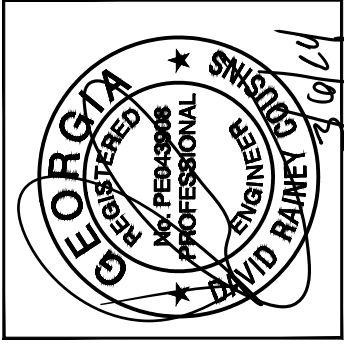
PLANS PREPARED BY:

**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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3	03/06/24	CONSTRUCTION	DRC
2	01/26/22	CONSTRUCTION	CCH
1	08/31/21	CONSTRUCTION	CCH
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A	04/29/21	PRELIMINARY	CCH

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TDM

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TRN

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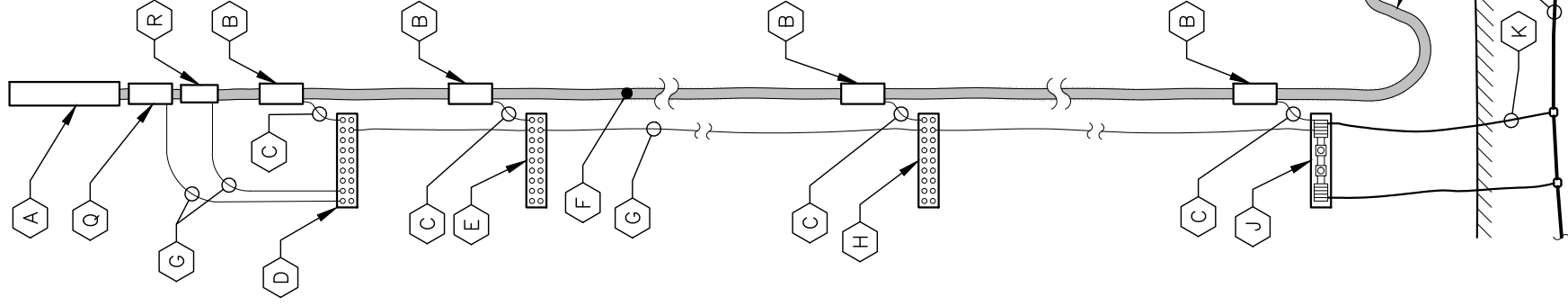
**GROUNDING  
SINGLE LINE  
DIAGRAM**

SHEET NUMBER:

E10

**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 TDGSA-PA14 ON DEDICATED STEEL POST WHERE POSSIBLE; OTHERWISE TDGSA-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 TDGSA-BC14. TYPICAL TWO CONNECTIONS TO GROUND RING.
- L #2 AWG SOLID TINNED COPPER TOWER GROUND RING. DRIP LOOP.
- M TO SHELTER/RF CABINETS.
- N 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.

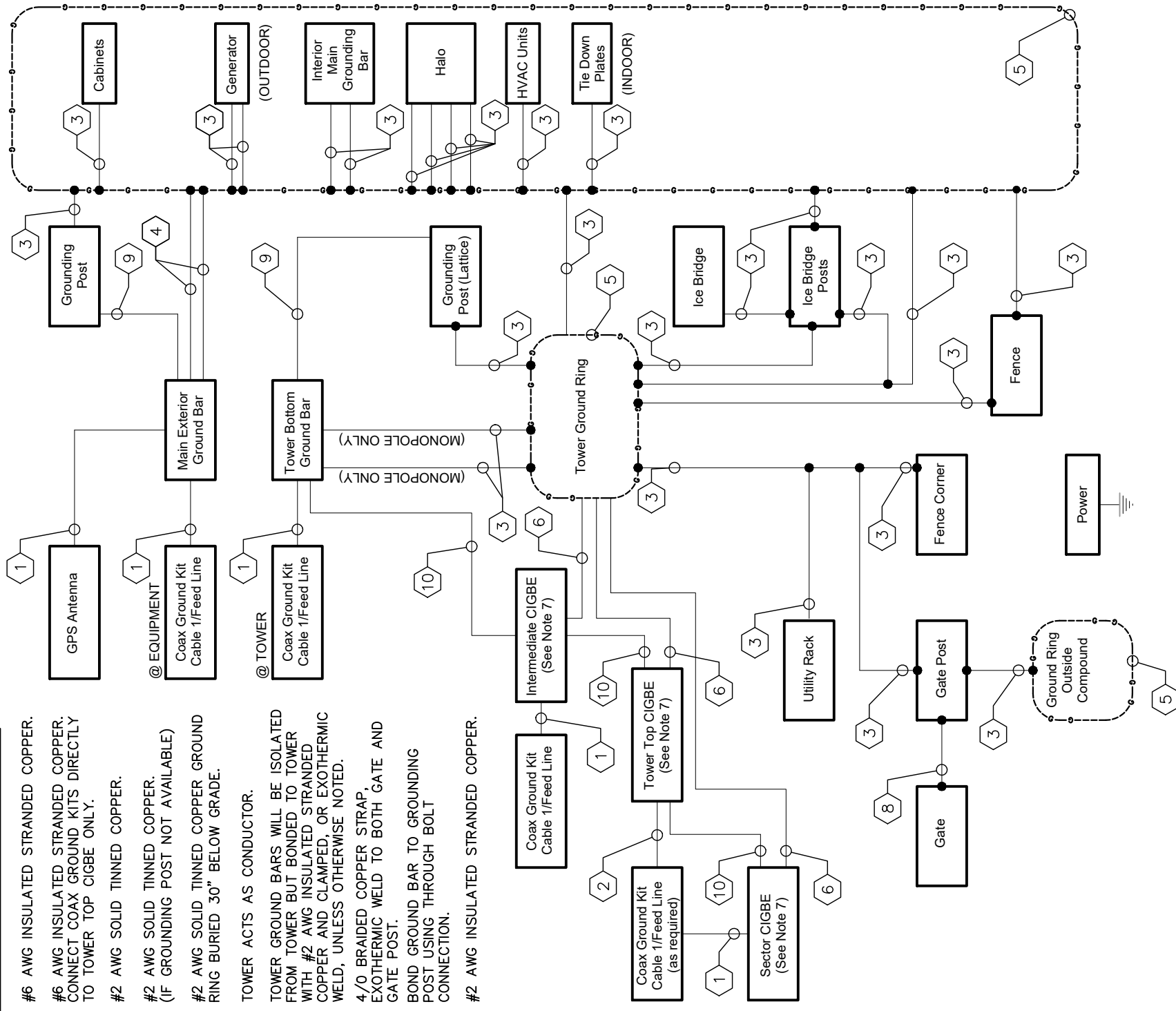


**2 COAX-TOWER GROUNDING SCHEMATIC**

E10 NOT TO SCALE

**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 GROUNDING SINGLE LINE DIAGRAM**

E10 NOT TO SCALE



10300 OLD ALABAMA ROAD CONNECTOR  
ALPHARETTA, GEORGIA 30022

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SITE No.: 581347  
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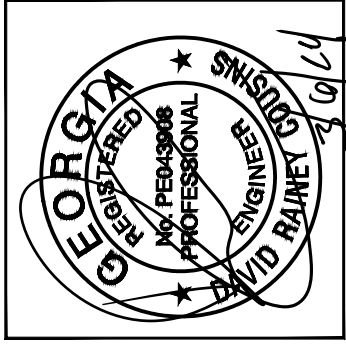
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GROUNDING  
DETAILS

SHEET NUMBER:

E11

THREADED 8" DIAMETER SCHEDULE 40 PVC PLUG.

FINISHED GRADE.

CRUSHED AGGREGATE, SEE CIVIL DRAWINGS FOR DETAILS.

LOOP GROUND RING INTO TEST WELL.

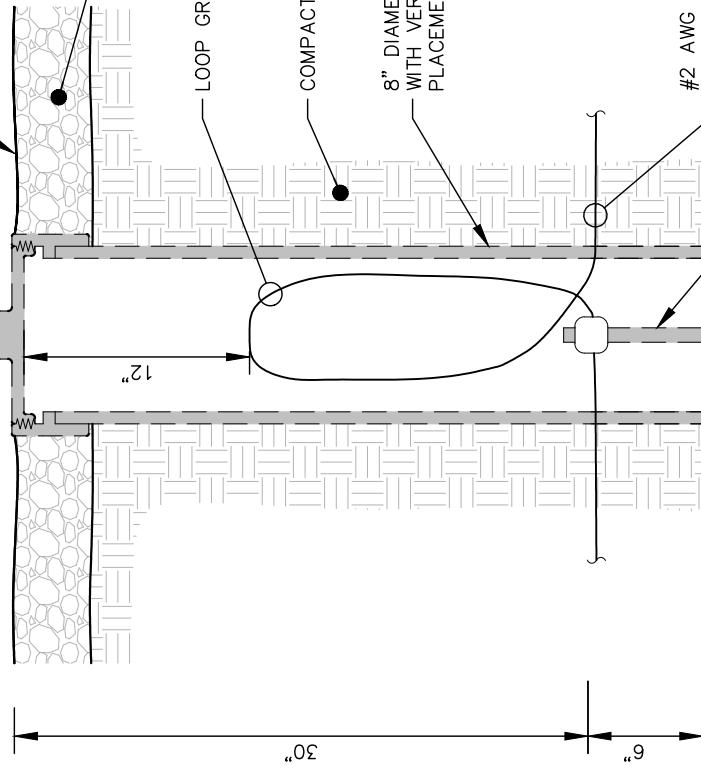
COMPACTED BACKFILL.

8" DIAMETER SCHEDULE 40 PVC PIPE WITH VERTICAL SLOT TO ALLOW PIPE PLACEMENT THRU GROUND RING.

#2 AWG BARE SOLID TINNED COPPER GROUND RING, EXOTHERMIC WELD TO GROUND ROD.

5/8" x 10' COPPER CLAD GROUND ROD.

6" OF CRUSHED AGGREGATE.



1 GROUND ROD TEST WELL DETAIL

E11 NOT TO SCALE

FINISHED GRADE.

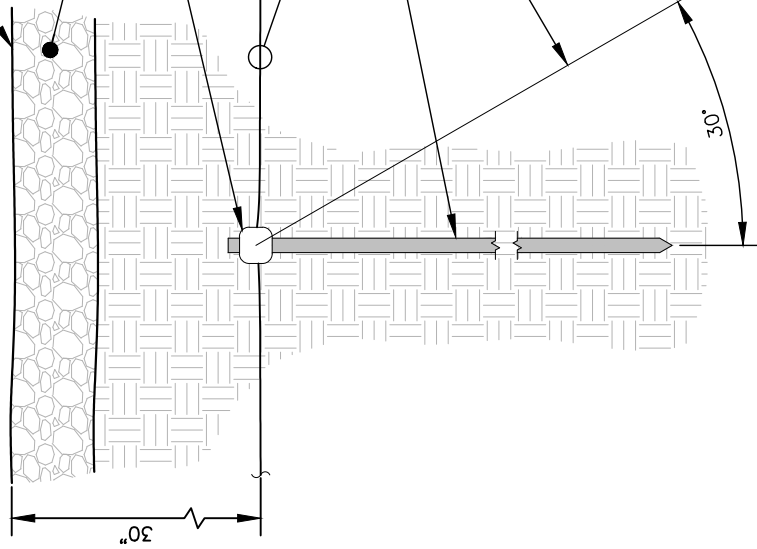
CRUSHED AGGREGATE, SEE CIVIL DRAWINGS FOR DETAILS.

EXOTHERMIC WELD, SEAL WITH TWO (2) COATS OF COLD GALVANIZED PAINT.

#2 BARE SOLID TINNED COPPER GROUND RING, EXOTHERMIC WELD TO GROUND ROD.

5/8" x 10' COPPER CLAD GROUND ROD.

PLACEMENT OF GROUND ROD SHALL NOT EXCEED 30 DEGREES FROM VERTICAL.



2 GROUND ROD INSTALLATION DETAIL

E11 NOT TO SCALE



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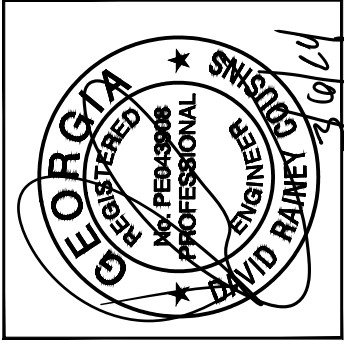
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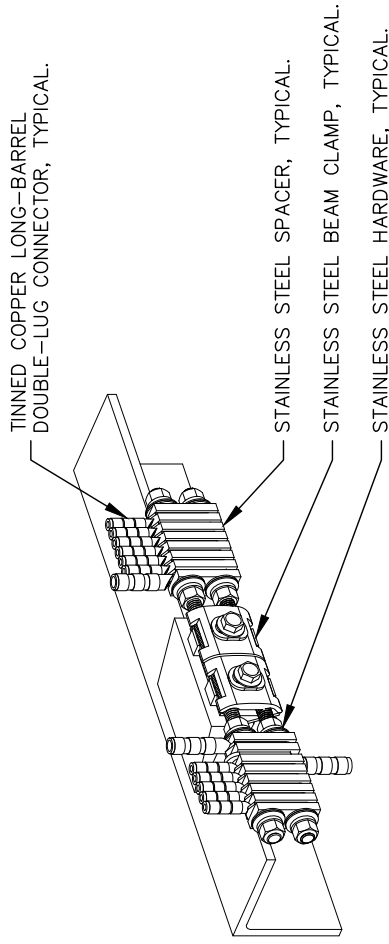
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SHEET TITLE:

GROUNDING  
DETAILS

SHEET NUMBER:

E12



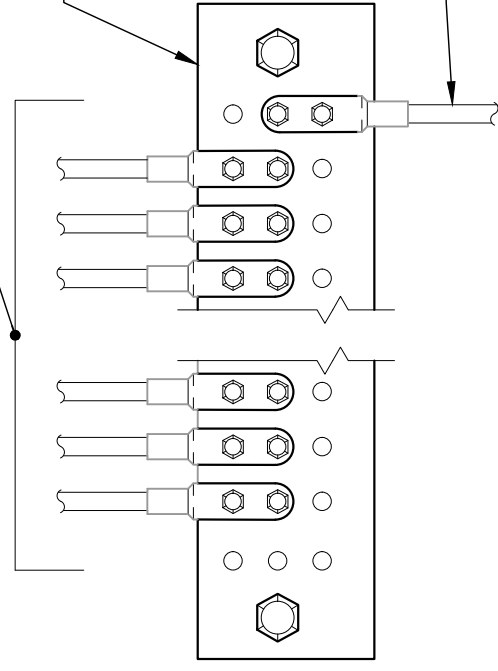
**1** BAR NONE GROUNDED BEAM CLAMP (TDSGA-BC14)

**E12** NOT TO SCALE

#6 AWG INCOMING GROUNDING CONDUCTORS FROM COAX GROUNDING KITS. (FOR TOWER TOP CIGBE'S OCCURS ONLY ON GUYED TOWERS, OR ON OTHER STRUCTURES WHERE REQUIRED TO ACHIEVE 75 FT MAXIMUM DISTANCE BETWEEN COAX GROUNDING LOCATIONS.)

CIGBE GROUND BARS ON ANTENNA TOWER, ISOLATE FROM TOWER.

#2 AWG GROUNDING CONDUCTOR RUN FROM CIGBE TO TOWER USING CLAMP, OR RUN #2 AWG INSULATED GROUNDING CONDUCTOR TO NEXT LOWER CIGBE.

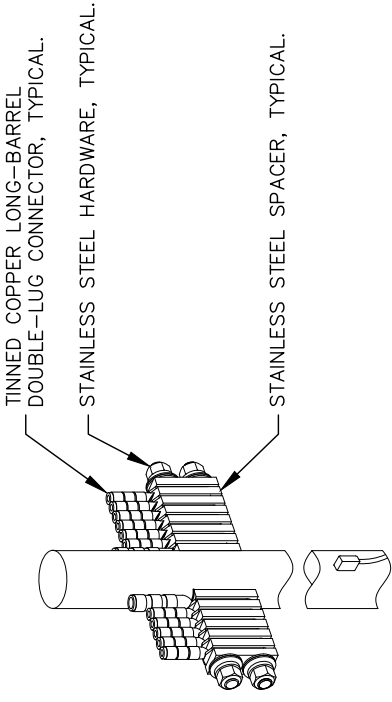


**3** ANTENNA GROUND WIRE INSTALLATION DETAIL

**E12** NOT TO SCALE

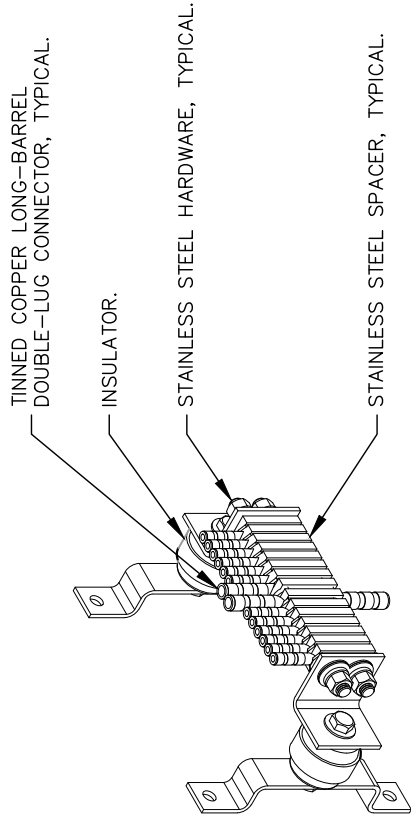
NOTES:

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



**2** BAR NONE POST MOUNTED (TDSGA-PA14)

**E12** NOT TO SCALE



**4** BAR NONE INSULATED (TDSGA-WB17)

**E12** NOT TO SCALE