

Conditional Use CU21080030

Staff Analysis

Commission District: 4- Bradford

Planning Commission Hearing Date: 10-07-2021

Board of Commissioners Hearing Date: 11-02-2021

Parcel ID: Map C1380029

Acreage: 30.02 acres

Applicant:

New Cingular Wireless PCS, LLC (DBA AT&T)
1025 Lenox Park Blvd NE, 3rd Floor
Atlanta, Georgia 30319

Owner:

Hugh Floyd Atha, Jr.
190 Pleasant Valley Road
Monroe, Georgia 30655

Property Location: 192 Pleasant Valley Road

Current Character Area: Rural Residential

Current Zoning: A1

Request: Conditional Use for a cell tower.

Article 5 Permitted Uses
 Part 1 Permitted and Conditional Uses
 Section 100 Table of Permitted and Conditional Uses

A. The Permitted and Conditional Uses listed in the table below shall be permitted in Walton County zoning districts and no structure shall be erected, structurally altered or enlarged unless the use is permitted as:

NAICS Code	Principal Uses	Suppl. Reg	A	A1	A2	R1	R2	R3	MHP	OI	B1	B2	B3	TC	MUBP	M1	M2
513322	Cellular & Other Wireless Telecommunications	Yes	C	C	C							C	C	C	C	P	P

Site Analysis: The 30.02 acre tract of land is located on 192 Pleasant Valley Road. The surrounding properties are zoned A1 and A2.

Zoning History: No History

Character Area: The character area for this property is Rural Residential.

Comments and Recommendations from various Agencies:

Public Works:

Sheriffs' Department:

Water Authority:

Fire Department:

Fire Code Specialist:

Board of Education:

Development Inspector:

DOT Comments:

Archaeological Information:

Conditional Use Application # CU 21080030

Planning Comm. Meeting Date 10-07-2021 at 6:00PM held at WC Board of Comm. Meeting Room
Board of Comm Meeting Date 11-02-2021 at 6:00PM held at WC Historical Court House
You or a representative must be present at both meetings

Please Type or Print Legibly

Map/Parcel C1380029

Applicant Name/Address/Phone #	Property Owner Name/Address/Phone
New Cingular Wireless PCS, LLC (DBA: AT&T)	Hugh Floyd Atha, Jr.
<u>1025 Lenox Park Blvd NE 3rd Floor</u>	<u>190 Pleasant Valley Road</u>
<u>Atlanta, GA 30319</u>	<u>Monroe, GA 30655</u> <small>(If more than one owner, attach Exhibit "A")</small>
Phone # <u>904-437-7377</u>	Phone # <u>706-474-0534</u>
Location <u>192 Pleasant Valley Road</u>	Present Zoning <u>A1</u> Acreage <u>30.02</u>
Existing Use of Property: <u>Residence and Poultry Cattle Farm</u>	
Existing Structures: <u>(1) Single Family Residence and (6) Chicken Houses</u>	
Property is serviced by: <u>N/A</u>	
Public Water: _____	Provider: _____ Well: _____
Public Sewer: _____	Provider: _____ Septic Tank: _____
The purpose of this conditional use is: <u>Construct a proposed fenced telecommunications tower compound with a self-support tower with tower mounted equipment. Ground level equipment and associated utilities to be installed within the fenced compound. An access drive and utilities routes installed from the right of way to tower compound. Use of the tower is</u> _	
<u>Request variance or waiver to avoid the use of a landscape buffer because the site is already well buffered from the adjoining properties and public right of way</u>	
The above statements and accompanying materials are complete and accurate. Applicant hereby grants permission for planning and zoning personnel to enter upon and inspect the property for all purposes allowed and required by the Comprehensive Land Development Ordinance.	
<u>Chad Caudill</u>	<u>8/24/2021</u> \$ <u>250.00</u> <input checked="" type="checkbox"/>
Signature	Date Fee Paid
Public Notice sign will be placed and removed by P&D Office Signs will not be removed until after Board of Commissioners meeting	
Office Use Only:	
Existing Zoning <u>A1</u>	Surrounding Zoning: North <u>A1 A2</u> South <u>A1</u> East <u>A1</u> West <u>A1</u>
Comprehensive Land Use: <u>Rural Residential</u>	
Commission District: <u>4-Bradford</u>	Watershed: <u>Hard Labor Creek W-P2</u>

I hereby withdraw the above application _____ Date: _____

**AUTHORIZATION
BY PROPERTY OWNER**

I swear that I am the property owner of the property which is the subject matter of the attached Petition for Rezoning/Conditional Use Application, as is shown in the records of Walton County, Georgia.

I authorize the named below to act as Applicant in the pursuit of a Petition for Rezoning/Conditional Use Application.

Name of Applicant: New Cingular Wireless PCS, LLC DBA: AT&T Mobility

Address: 1025 Lenox Park Blvd NE 3rd Floor, Atlanta, GA 30319

Telephone: 904-437-7377

Location of Property: 192 Pleasant Valley Road, Monroe, GA 30655

Map/Parcel Number: 01380020

Current Zoning: A1 Requested Zoning: Unchanged

Hugh Floyd Atha Jr.
Property Owner Signature

Chad Caudill
Agent on Behalf of Applicant Signature

Print Name: Hugh Floyd Atha Jr.

Print Name: Chad Caudill (Agent on Behalf of New Cingular Wireless PCS, LLC)

Address: 190 Pleasant Valley Road
Monroe, GA 30655

Address: 1025 Lenox Park Blvd NE 3rd Floor
Atlanta, GA 30319

Phone #: 706-474-0534

Phone #: 904-437-7377

Personally appeared before me and who swears that the information contained in this authorization is true and correct to the best of his/her knowledge.

K. Whitehead
Notary Public

7/20/21
Date



Agent Authorization Affidavit

July 23, 2021

Walton County
Attn: Planning & Development Dept
303 S Hammond Dr # 98
Monroe, GA 30655

RE: Agent Authorization for New Permit Filings (Zoning, Building, Electrical, and Right of Way Permits)

To Whom it May Concern:

You are hereby advised that the undersigned hereby authorizes and empowers the following individuals to act as agent to file application(s) for New Cingular Wireless PCS, LLC for relevant permits required and specific to the address located at 192 Pleasant Valley Road, Monroe, GA 30655 (parcel: C1380029).

Shirah and Company, LLC: Chad Caudill, Richard Shirah, Charles Padgett, and Jay Shirah

New Cingular Wireless PCS, LLC

By: [Signature]
Name: Len Lindros
Its: Area Manager

STATE OF GEORGIA
COUNTY OF GWINNETT
Sworn to and subscribed and acknowledged before me this 5th day of August
2021, by Len Lindros, who is personally known to me or has produced
as identification and who took an oath.

[Signature]
(Signature of NOTARY PUBLIC)
MELODIE WADE
(Printed name of NOTARY PUBLIC)
State of Georgia at Large. My Commission
Expires: 5/24/2025

Seal:



Standard Review Questions:

Provide a written, documented, detailed analysis of the impact of the proposed zoning map amendment or conditional use with respect to each of the standards and factors specified in Section 160 listed below:

Conditional Use Permit Criteria

1. Adequate provision is made such as setbacks, fences, etc., to protect adjacent properties from possible adverse influence of the proposed use, such as noise, dust vibration, glare, odor, electrical disturbances, and similar factors.

See survey and site plan indicating all setbacks will be satisfied. There will be no adverse impacts to noise, dust vibration, glare, odor, electrical disturbances.

2. Vehicular traffic and pedestrian movement on adjacent streets will not be hindered or endangered.

There will be no safety issues or hindrances. Traffic related to the tower facility will be minimal and only required for periodic general maintenance of the facility.

3. Off-street parking and loading and the entrances to and exits from such parking and loading will be adequate in terms of location, amount and design to serve the use.

An existing curb cut will be utilized and the entrance will only be used for occasional maintenance of the tower/compound equipment.

4. Public facilities and utilities are capable of adequately serving the proposed use.

Yes

4. The proposed use will not adversely affect the level of property values or general character of the area.

The site location for the proposed tower is located in the rear of the property and is well buffered from the adjoining parcels and the public right-of-way by mature trees, underbrush and topographic inclination features.



300 North Point Parkway
Alpharetta, GA 30022

RF Memo

To: Whom It May Concern
From: Mark Cabadin, AT&T Mobility RF Engineer
Date: 8/5/2021
Re: Proposed AT&T Site: GNL06182

AT&T is requesting permission to construct a new telecommunications tower along Pleasant Valley Rd, Monroe, GA.

This area is where additional capacity is needed in order to offload an existing ATT site GNL06184 located in the intersection of Hwy78 and Broad St. The new site build will cover the heavy residential in the area. Construction of the tower and the addition of AT&T equipment will improve indoor coverage for voice and data services to AT&T customers in the area. Also, it will provide service to first responders through FirstNet.

On the attached coverage maps, areas depicted in Red, Orange, and Yellow would be considered as covered, while areas in Greens would be considered marginal and Blues poor to no signal.

Tower collocation has been evaluated but was deemed as not meeting ATT coverage requirement in the area.

AT&T has studied the area thoroughly and determined that an antenna height of 250ft above ground level is appropriate at this location to fulfill the RF requirements. No suitable existing structure was identified in the area, so AT&T is requesting to build a new tower.

AT&T certifies that its equipment will be installed and operated in keeping with applicable FAA and FCC rules and regulations and appropriate industry standards. The construction on this site, including AT&T's installation of transmitter/receiver equipment, will not interfere with the usual and customary transmission or reception of radio, television, etc. service enjoyed by adjacent properties. AT&T certifies that the proposed tower will not interfere with Public Safety radio equipment in the vicinity.

AT&T certifies that it will expeditiously remedy any physical or RF interference with other wireless devices or services. AT&T certifies that the proposed telecommunications facility will be operated in compliance with the FCC's current RF emission standards.

Should you need additional information, please contact me at the following number 470-4153281.

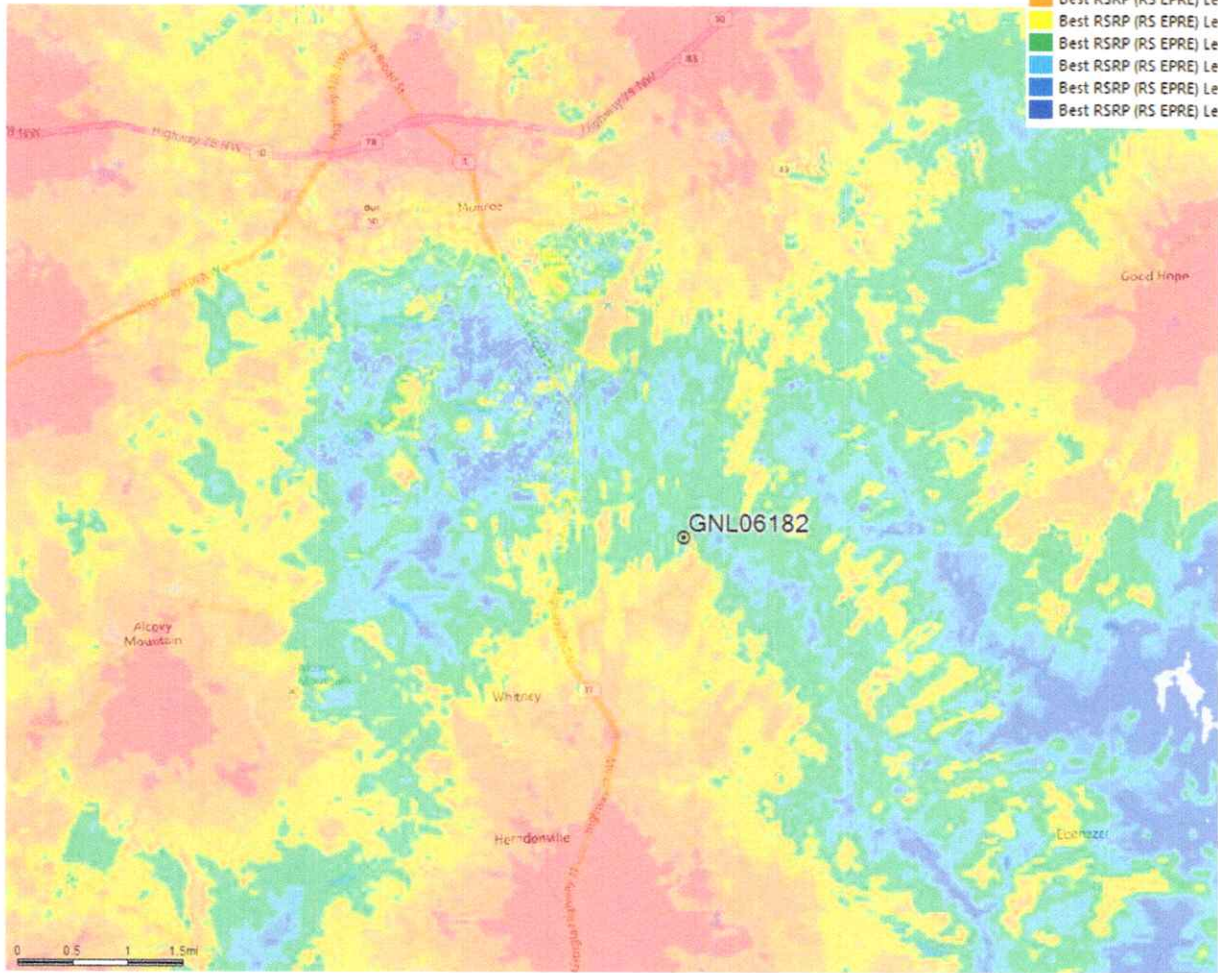
Respectfully,

A handwritten signature in cursive script, appearing to read "M. Cabadin".

Mark Cabadin
RF Engineer
AT&T Mobility

Existing AT&T LTE Coverage without New Site Build

- Best RSRP (RS EPRE) Level (dBm) > = -90
- Best RSRP (RS EPRE) Level (dBm) > = -98
- Best RSRP (RS EPRE) Level (dBm) > = -103
- Best RSRP (RS EPRE) Level (dBm) > = -108
- Best RSRP (RS EPRE) Level (dBm) > = -113
- Best RSRP (RS EPRE) Level (dBm) > = -116
- Best RSRP (RS EPRE) Level (dBm) > = -118
- Best RSRP (RS EPRE) Level (dBm) > = -126

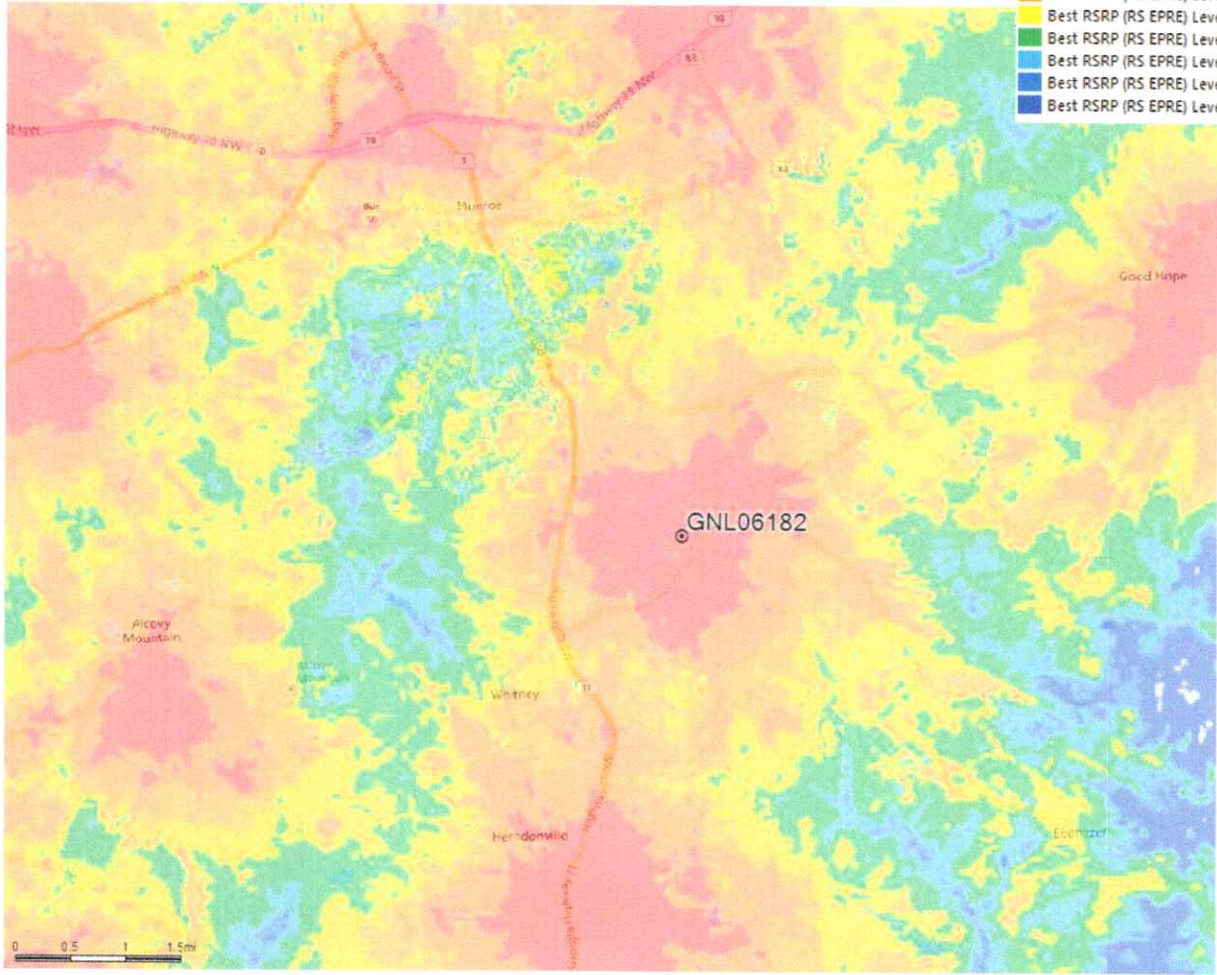




300 North Point Parkway
Alpharetta, GA 30022

Proposed AT&T LTE Coverage with New Site Build

- Best RSRP (RS EPRE) Level (dBm) >=-90
- Best RSRP (RS EPRE) Level (dBm) >=-98
- Best RSRP (RS EPRE) Level (dBm) >=-103
- Best RSRP (RS EPRE) Level (dBm) >=-108
- Best RSRP (RS EPRE) Level (dBm) >=-113
- Best RSRP (RS EPRE) Level (dBm) >=-116
- Best RSRP (RS EPRE) Level (dBm) >=-118
- Best RSRP (RS EPRE) Level (dBm) >=-126

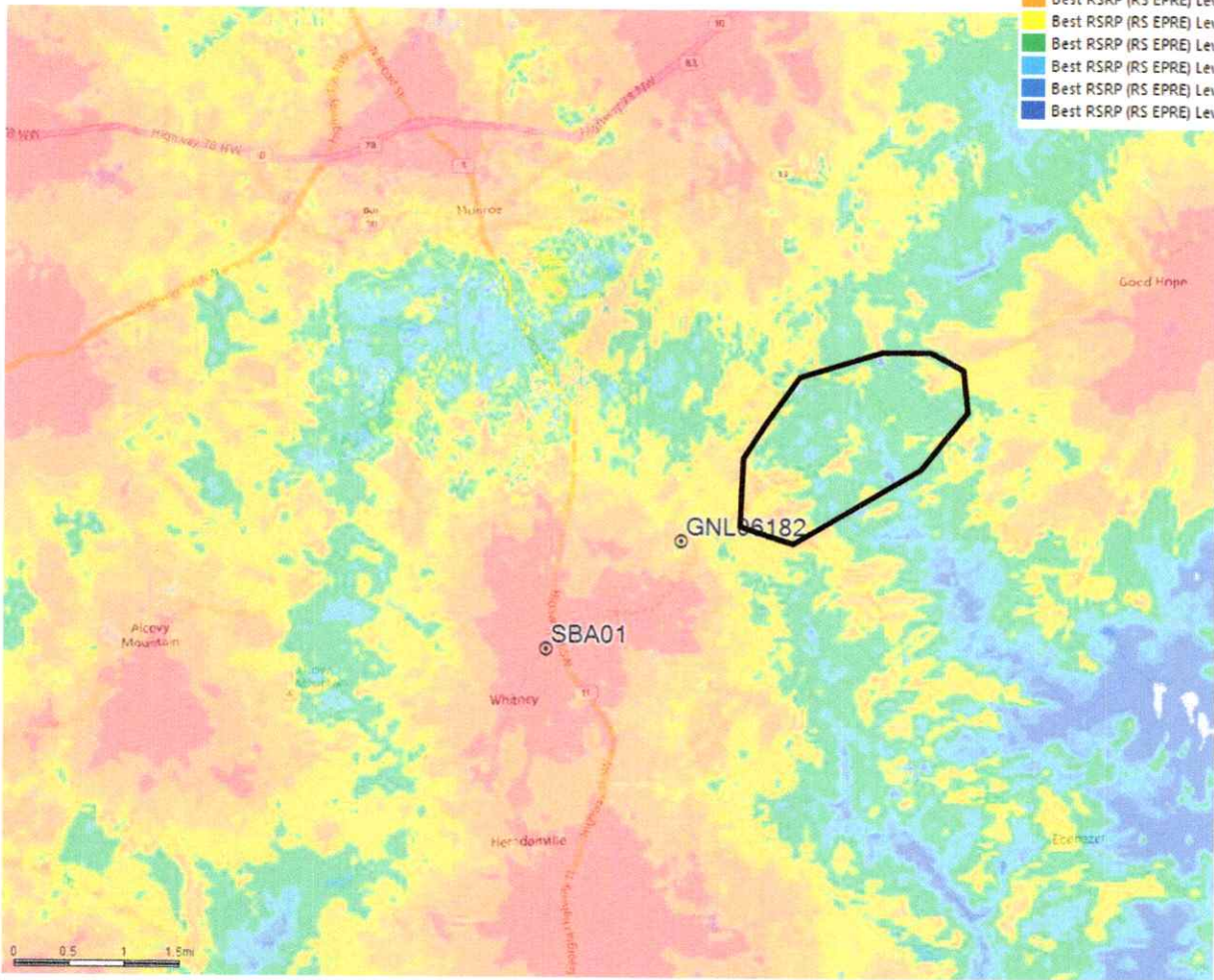




300 North Point Parkway
Alpharetta, GA 30022

Proposed AT&T LTE Coverage using SBA01 (33-44-15.0N, -83-42-15.7W at 250ft)

- Best RSRP (RS EPRE) Level (dBm) >= -90
- Best RSRP (RS EPRE) Level (dBm) >= -98
- Best RSRP (RS EPRE) Level (dBm) >= -103
- Best RSRP (RS EPRE) Level (dBm) >= -108
- Best RSRP (RS EPRE) Level (dBm) >= -113
- Best RSRP (RS EPRE) Level (dBm) >= -116
- Best RSRP (RS EPRE) Level (dBm) >= -118
- Best RSRP (RS EPRE) Level (dBm) >= -126



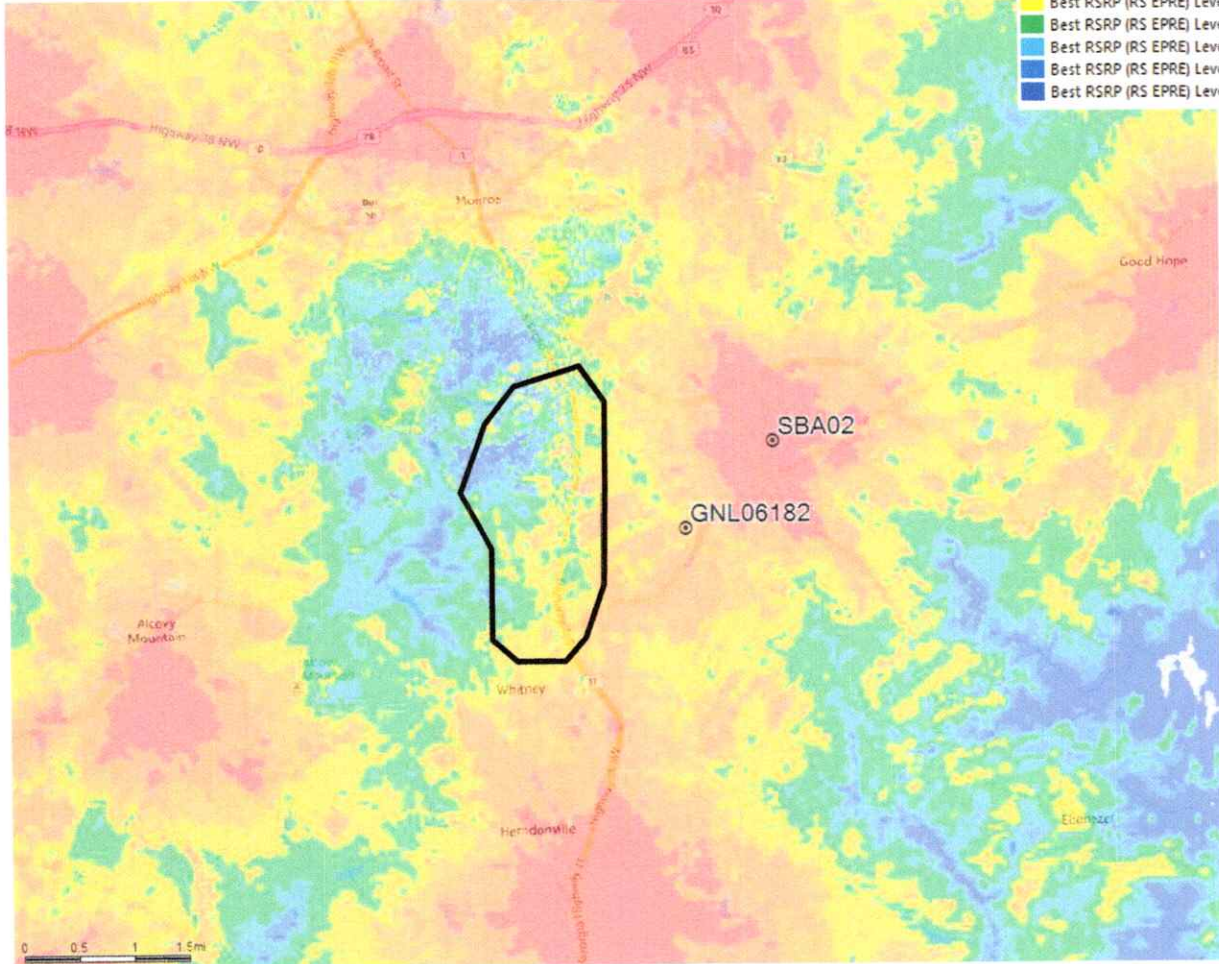
SBA tower is not able to cover the connection from Monroe going to Good Hope area.



300 North Point Parkway
Alpharetta, GA 30022

Proposed AT&T LTE Coverage using SBA02 (33-45-43.3N, -83-40-07.2W at 145ft)

- Best RSRP (RS EPRE) Level (dBm) >=-90
- Best RSRP (RS EPRE) Level (dBm) >=-96
- Best RSRP (RS EPRE) Level (dBm) >=-103
- Best RSRP (RS EPRE) Level (dBm) >=-108
- Best RSRP (RS EPRE) Level (dBm) >=-113
- Best RSRP (RS EPRE) Level (dBm) >=-116
- Best RSRP (RS EPRE) Level (dBm) >=-118
- Best RSRP (RS EPRE) Level (dBm) >=-126



SBA tower is not able to cover the south area from Monroe proper where the dense area is.

Shirah & Company

August 14, 2021

Walton County Planning & Dev
Attn: Tracie Malcomb
303 S Hammond Dr # 98
Monroe, GA 30655

RE: Cell Tower Letter of Intent (Parcel: C1380029)

The applicant, New Cingular Wireless PCS, LLC (dba: AT&T Mobility, LLC), in an effort to improve Cell Phone Coverage and First Net, requests the review and approval of our Zoning Application for the construction of a new cell tower located at 192 Pleasant Valley Road, Monroe, GA 30655 (parcel: C1380029).

There are no existing cell towers within the geographic area that will support our services. The nearest existing structures are too far from the service area objective to provide adequate services to the community as shown by the supplemental RF Memo and propagation maps. These maps provide a view of the "before and after" service improvement for the associated area the proposed tower site will offer. A variance or waiver is requested to avoid the need for a landscape buffer surrounding the tower facility because the proposed site is already well buffered from the adjoining properties and the public right-of-way.

Upon approval of the Conditional Use Permit and prior to construction, AT&T Mobility will obtain all other state and federal approvals required for the building permit.

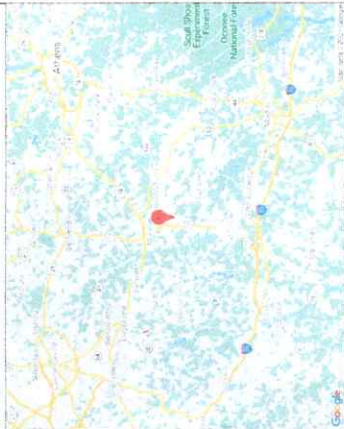
Supplemental Enclosures:

Letter of Intent & Conditional Use Application
Recorded Deed of Property
Recorded Plat of Property
Campaign Contribution Form
Owner Authorization
Construction Drawings / Site Plan
Boundary Survey and Legal Description
RF Memo / Letter of Need
Propagation Maps (Before and After)

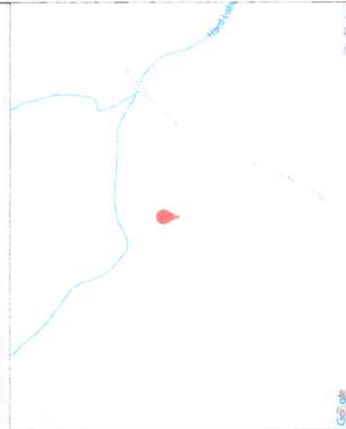
Sincerely,

Chad Caudill
Shirah and Company, LLC
202 Marina Drive
St. Simons Island, GA 31522
Cell: 904-437-7377
ccaudill@shirahandcompany.com

LOCATION MAP



VICINITY MAP



SCOPE OF WORK:

CONSTRUCT A PROPOSED FENCED TELECOMMUNICATIONS TOWER COMPOUND WITH A SET SUPPORT TOWER WITH TOWER-MOUNTED EQUIPMENT. GROUND-LEVEL EQUIPMENT AND ASSOCIATED UTILITIES TO BE INSTALLED WITHIN THE COMPOUND. AN ACCESS DRIVE AND UTILITY ROUTES INSTALLED FROM RIGHT-OF-WAY TO TOWER COMPOUND.

CONSTRUCTION CODES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING. PERMITS SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING MANDATORY CODES AS ADOPTED BY OGA:
- INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
 - INTERNATIONAL RESIDENTIAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
 - INTERNATIONAL FIRE CODE, 2018 EDITION (NO GEORGIA AMENDMENTS)
 - INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
 - INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
 - INTERNATIONAL FUEL GAS CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
 - NATIONAL ELECTRICAL CODE, 2017 EDITION (NO GEORGIA AMENDMENTS)
 - NATIONAL ELECTRICAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
 - GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)
 - INTERNATIONAL SWIMMING POOL AND SPA CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)

AT&T SITE ID:
GA6182

FA CODE:
15173580

PROJECT:
NSB

PREPARED FOR:



PROJECT MANAGER:



PREPARED BY:



PROJECT INFORMATION

SITE ADDRESS: 192 PLEASANT VALLEY ROAD
MONROE, GA 30665

LATITUDE: 33.751144°
LONGITUDE: -83.682719°

JURISDICTION: WALTON COUNTY
ZONING CLASS: A1
PARCEL ID: C1380029

PROPERTY OWNER: HUGH FLOYD ATHA, JR.
190 PLEASANT VALLEY ROAD
MONROE, GA 30665

APPLICANT/TOWER OWNER: AT&T
641 MEMBREE PKWY
ROSWELL, GA 30077

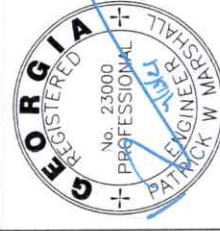
PROJECT MANAGER: ANSCO & ASSOCIATES, LLC
5261 TRIANGLE PKWY NW
NORCROSS, GA 30093

ENGINEER: P. MARSHALL & ASSOCIATES
1001 HOLCOMB WOODS PKWY STE. 210
ROSWELL, GA 30077
PATRICK W MARSHALL, P.E.
678-280-2326

POWER: WALTON EMC
TELCO: AT&T

DRAWING INDEX

- TITLE SHEET & PROJECT INFORMATION
- T-1 SURVEY
 - C-1 GENERAL NOTES
 - C-2 OVERALL SITE PLAN
 - C-3 DETAILED SITE PLAN
 - C-3A AT&T EQUIPMENT PLAN
 - C-4 TOWER ELEVATION & ANTENNA ORIENTATION
 - C-4A ANTENNA & CABLE SCHEDULE
 - C-5 GRADING & EROSION CONTROL PLAN
 - C-6 GRADING & EROSION CONTROL NOTES
 - C-7 GRADING & EROSION CONTROL DETAILS
 - C-8 EQUIPMENT DETAILS
 - C-9 FENCE DETAILS
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 - E-1 AT&T TOWER ELECTRICAL & GROUNDING PLAN
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 - E-4 DC ONE LINE DIAGRAM
 - E-5 GROUNDING DETAILS
 - E-6 UTILITY H-FRAME DETAIL
 - E-7 GENERATOR SPECIFICATIONS (BY OTHERS)
 - E-8 GENERATOR SPECIFICATIONS (BY OTHERS)
 - E-9



CALL GEORGIA ONE CALL
(800) 282-7411
CALL 3 WORKING DAYS
BEFORE YOU DIG!



ANSOCO & ASSOCIATES, LLC



AT&T SITE ID:
GA6182

FA LOCATION CODE:
15173580

REV	DATE	DESCRIPTION
A	04/06/21	ISSUED FOR REVIEW
0	04/13/21	ISSUED FOR CONSTRUCTION

DESIGNED: SDM
DRAWN: SDM
CHECKED: PWM
JOB#: 2020ANATN09-0028

TITLE SHEET & PROJECT INFORMATION

T-1

PARENT PARCEL

OWNER: HIGH FLOYD ATHA, JR. (PER TAX ASSESSOR)
 SITE ADDRESS: 190 PLEASANT VALLEY RD., MONROE, GA 30665
 PARCEL ID: C1380029
 AREA: 30.02 ACRES (PER TAX ASSESSOR)
 ZONED: A1

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS

- REFERENCES: 1. DEED BOOK 2967 PAGE 488
 2. PLAT BOOK 104 PAGE 118
 3. PLAT BOOK 105 PAGE 21
 4. PLAT BOOK 105 PAGE 21
 5. PLAT BOOK 79 PAGE 120

APPROXIMATE LIMITS OF FLOOD ZONE "X"
 AS SCALED FROM T.I.R.M. PANEL NO. 13297001450

*PER DEED BOOK 2967 PAGE 488, HIGH FLOYD ATHA, JR. OWNS 1/6 UNDIVIDED INTEREST.
 PER DEED BOOK 2966 PAGE 415, HIGH FLOYD ATHA, JR. OWNS 2/3 INTEREST. TITLE SEARCH
 MAY BE REQUIRED TO DETERMINE THE OWNERSHIP OF THE REMAINING INTEREST

GPS NOTES

THE FOLLOWING GPS STATUSES ON MONROE PARCEL SURVEY IS BASED ON DATA PRODUCED AT THE 5CM CONFORMANCE LEVEL:
 POSITIONAL ACCURACY: 0.03 FEET (HORIZ) 0.23 FEET (VERT)
 TYPE OF EQUIPMENT: GEOMAX ZENITHS PRO BASE AND ROWER DUAL FREQUENCY
 DATE OF SURVEY: 02/25/2021
 DATUM / EPOCH: NAD 83/2011 EPOCH 2010.0000
 PUBLISHED / FIELD CONTROL USE: N/A
 COMBINED GRID FACTORS: 0.99998990 CENTERED ON THE GPS BASE POINT AS SHOWN HEREON
 BENCHMARK USED: D19211, D022372, DM7831

NF
 WALTON COUNTY WATER & SEWERAGE AUTHORITY
 PARCEL # C1380024800
 DB 2966 PG 421
 ZONED A1-42

NF
 DAVID, JAMES COWAN &
 MICHAEL FRANK COWAN
 PARCEL # C1380032
 DB 523 PG 326
 ZONED A1

NF
 HIGH FLOYD ATHA JR
 PARCEL # C1380031
 DB 523 PG 322
 ZONED A1

NF
 HIGH FLOYD ATHA JR
 PARCEL # C1380029
 DB 2967 PG 488,
 DB 2966 PG 415
 ZONED A1

NF
 HIGH FLOYD ATHA JR
 PARCEL # C1380028
 DB 282 PG 381
 ZONED A1

NF
 BAW PLANTATION, LLC
 PARCEL # C1380063400
 DB 2704 PG 2
 ZONED A1

C/A 25' INGRESS-EGRESS & UTILITY EASEMENT
 (SEE SHEET 2 FOR DETAIL)

LEASE AREA
 (SEE SHEET 2 FOR DETAIL)



GENERAL NOTES

THIS EXHIBIT SURVEY FOR THE LEASED PREMISES AND EASEMENTS ONLY. THIS EXHIBIT SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF A1 AND A1-42 ZONING DISTRICTS AND SHALL NOT BE USED AS THE BASIS FOR EASEMENT OR EVIDENCE IN THE TITLE TRANSFER OF THE PARENT PARCEL NOR ANY PORTION THEREOF. THIS SURVEY IS FOR INFORMATION ONLY. NO BOUNDARY SURVEY OF THE PARENT PARCEL WAS PERFORMED.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THIS EXHIBIT SURVEY WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT WHICH MAY REVEAL ADDITIONAL CLAIMS, EASEMENTS, OR RIGHTS OR WAY NOT SHOWN HEREON.

EQUIPMENT USED FOR ANGULAR LINEAR MEASUREMENTS: LEICA TPS 1200 ROBOTIC & GEOMAX ZENITHS PRO BASE AND ROWER DUAL FREQUENCY EQUIPMENT. DATE OF LAST FIELD VISIT: 2/25/2021

THE T, CONTIGUOUS AND SPOT ELEVATIONS SHOWN ON THIS EXHIBIT SURVEY ARE ADJUSTED TO MVD 88 DATUM COMPUTED USING GEODIB AND HAVE A MEAN ERROR OF APPROXIMATE ± 0.5 U.S. CONTIGUOUS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BOUNDARY CORNER ON THE EXHIBIT SURVEY ARE BASED ON GRID NORTH AND 83 GEODESIC WEST ZONE.

PER THE TOWN OF MONROE, THE PROPERTY IS LOCATED IN AN AREA 22 ADDRESS-EGRESS & UTILITY EASEMENT IS LOCATED IN FLOOD ZONE "X" AREA OF MINIMAL FLOOD THREAT, COMMUNITY PANEL NO. 13297001450 DATED 02/25/2021.

NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS EXHIBIT SURVEY.

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEY MAKES NO WARRANTY AS TO THE ACCURACY OF SUCH INFORMATION. ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, THE SURVEYOR HEREBY DOES NOT WARRANT THAT ANY UNDERGROUND UTILITIES ARE NOT PRESENT. THE SURVEYOR HAS MADE EVERY REASONABLE EFFORT TO LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ANY UNDERGROUND UTILITIES.

CERTIFICATE OF AUTHORIZATION: LS1000843

POINT TO POINT LAND SURVEYORS

100 Governors Trace, Ste. 103
 Peachtree City, GA 30269
 (p) 678.565.4440
 (f) 678.565.4497
 (w) pointtopointsurvey.com

EXHIBIT SURVEY PREPARED FOR:

EXHIBIT SURVEY PREPARED FOR:

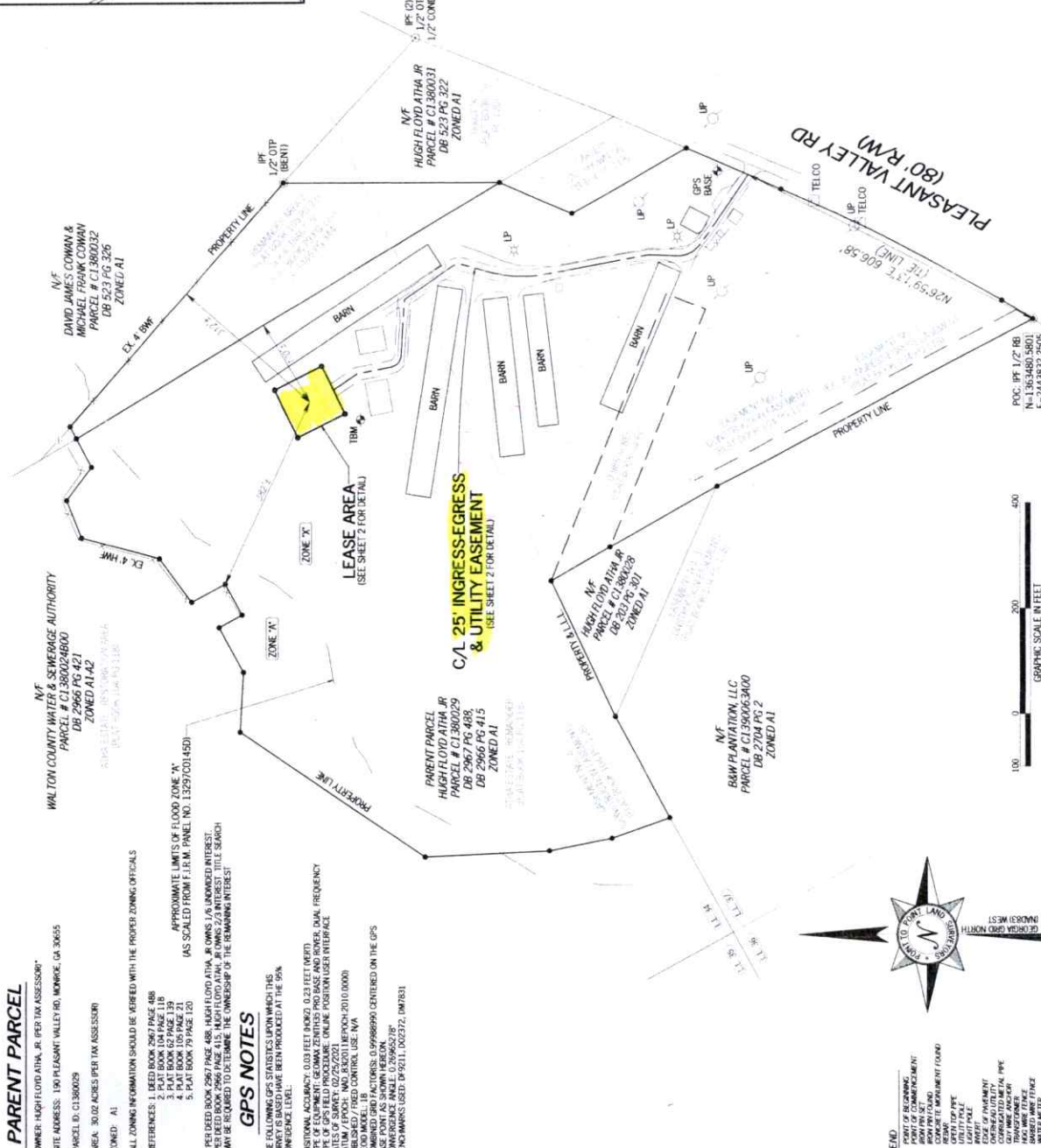
GA6182

LAND LOTS 34 & 37
 2ND LAND DISTRICT,
 WALTON COUNTY, GEORGIA

DRAWN BY: EAL
 CHECKED BY: AKL
 APPROVED: D. MILLER
 DATE: MARCH 13, 2021
 (APP. JOB # - 2102300A) SHEET: 1 OF 3



SURVEY NOT VALID WITHOUT SHEETS 2 & 3.



- LEGEND**
- PC: POINT OF BEGINNING
 - PA: PART OF COMMENCEMENT
 - PF: POINT OF FIDELITY
 - PI: POINT OF INTERSECTION
 - PL: POINT OF LOCATION
 - PP: POINT OF PERMANENT POINT
 - PR: POINT OF REVISION
 - PS: POINT OF SURVEY
 - PT: POINT OF TANGENCY
 - PU: POINT OF UTILITY
 - RV: RIGHT OF WAY
 - SE: SURVEY EASEMENT
 - SP: SURVEY POINT
 - TA: TANGENCY
 - TR: TRANSITION
 - UT: UTILITY
 - WA: WATER
 - WE: WATER EASEMENT
 - WI: WATER INTERFERENCE
 - WY: WAY OF COMMONLY
 - LL: LINE OF LOT LINE

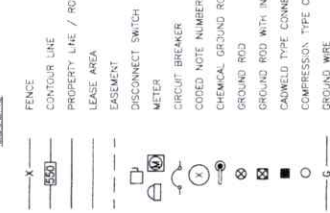
GENERAL NOTES:

1. DISCREPANCIES BETWEEN DRAWINGS OR MEASUREMENTS SHALL BE RESOLVED BY THE DESIGNER BEFORE STARTING WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SHORING, BRACING, AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SHORING, BRACING, AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SHORING, BRACING, AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK.
3. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.
4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH ALL GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, CONTRACTOR SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. SITE GRADING SHALL COMPLY WITH ALL APPLICABLE GRADING STANDARDS, LATEST EDITION, AND COMPLY WITH ALL VERIZON WIRELESS GRADING CHECKLISTS, LATEST VERSION, WHEN NATIONAL AND LOCAL GRADING CODES ARE MORE STRINGENT THEY SHALL GOVERN.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF TEMPORARY LIGHTING AND WIRING IS REQUIRED BY THE FEDERAL BUREAU OF INVESTIGATION. IF CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LOGS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES REQUIREMENTS.
8. ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE NOTICE TO THE INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES BE SCHEDULED AT ONE TIME IF POSSIBLE.
10. CONSTRUCTION MANAGER WILL CONFIRM FAA APPROVAL OF TOWER LOCATION BY ISSUING TOWER RELEASE FORM. NO TOWER SHALL BE CONSTRUCTED UNTIL THE TOWER RELEASE FORM IS ISSUED TO THE CONTRACTOR.
11. COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE FINAL RF DESIGN AND TOWER SITE ANALYSIS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
12. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SALT AND EROSION CONTROL SHALL BE MAINTAINED ON THE SITE THROUGHOUT THE CONSTRUCTION PERIOD. ONLY THE PERMITS NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE OBTAINED BY THE CONTRACTOR. ANY DAMAGE TO PROPERTY OUTSIDE THE LEASE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR.
14. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO CONSTRUCTION.
15. RECORDING AND MAPPING OF THE SITE SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROPOSING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.
16. PERMITS, OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC.
17. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
18. THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING ON THE WORK CONTAINED IN THIS DESIGN PACKAGE.

EXCAVATION & GRADING NOTES:

1. ALL CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM.
2. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON ALL SIDES. EXCESS MATERIAL SHALL BE REMOVED FROM THE EXCAVATION SITE. EXCESS MATERIAL SHALL BE REMOVED FROM THE EXCAVATION SITE. EXCESS MATERIAL SHALL BE REMOVED FROM THE EXCAVATION SITE.
3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIALS. IF FOUND, SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO THE EXCAVATION DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
4. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CHURNED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. SLOPE, IF USED SHALL NOT BE USED AS COMPLYING CONCRETE THICKNESS.
5. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACK FILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, TERRIS, AND SO FORTH.
6. BACK FILL SHALL BE:
 - MATERIALS CONSISTING OF EARTH, LOAM, SHADY CLAY SAND, GRAVEL OR SOFT SHALE.
 - FREE FROM GLOBS OR STONES OVER 2"-3" MAXIMUM DIMENSIONS.
 - IN LAYERS AND COMPACTED.
7. SITE FILL MATERIAL AND FOUNDATION BACK FILL SHALL BE PLACED IN LAYERS, MAXIMUM 6" DEEP BEFORE COMPACTED. EACH LAYER SHALL BE SPRINKLED IF REQUIRED AND COMPACTED BY HAND OPERATED OR MECHANICAL MEANS TO THE REQUIRED DENSITY. THE DENSITY OF THE MATERIAL SHALL BE DETERMINED BY ASTM DESIGNATION D-698, UNLESS OTHERWISE APPROVED. SUCH BACK FILL SHALL NOT BE PLACED BEFORE 3 DAYS AFTER PLACEMENT OF CONCRETE.
8. THE FOUNDATION AREA SHALL BE GRADED TO PROVIDE WATER RUNOFF AND PREVENT WATER FROM STANDING. THE FINAL GRADE SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE FOUNDATION AND SHALL THEN BE COVERED WITH 4" DEEP COMPACTED STONE OR GRAVEL.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL AND STATE REGULATIONS. SUCH MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT ACCUMULATION OF SOLID AND SILT IN STREAMS AND DRAINAGE DITCHES LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STAW BALE SEDIMENT BARRIERS AND CHECK DAMS REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND SLOPES TO BE THE SAME THICKNESS. NEW SURFACE SHALL BE FREE FROM CORROSIONS AND WAVES. EXISTING SURFACING MAY BE EXCAVATED SEPARATELY, AND REUSED IF NEARLY AMOUNTS OF EARTH. ADDITIONAL RESURFACING MATERIAL AS REQUIRED BEFORE SURFACING IS REPAIRED. SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE APPROVED SELECTED MATERIAL. SURFACING SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE.
10. PROTECT EXISTING SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO SUBGRADE OR OTHER SUITABLE MATERIALS. SUBGRADE DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAUNED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
11. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
12. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER'S SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
13. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
14. RIMPAP SHALL BE CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY, AND FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FROBBLE, THIN, ELONGATED OR LAMINATED PILES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OR ANY OTHER DELETERIOUS SUBSTANCE.

LEGEND



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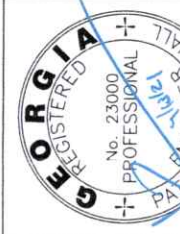
P. MARSHALL & ASSOCIATES

AT&T SITE ID: GA6182

FA LOCATION CODE: 15173580

REV	DATE	DESCRIPTION
A	04/06/21	ISSUED FOR REVIEW
0	04/13/21	ISSUED FOR CONSTRUCTION

DESIGNED SDM
DRAWN SDM
CHECKED PWM
JOB# 2020ANATMS-0028



GENERAL NOTES

C-1



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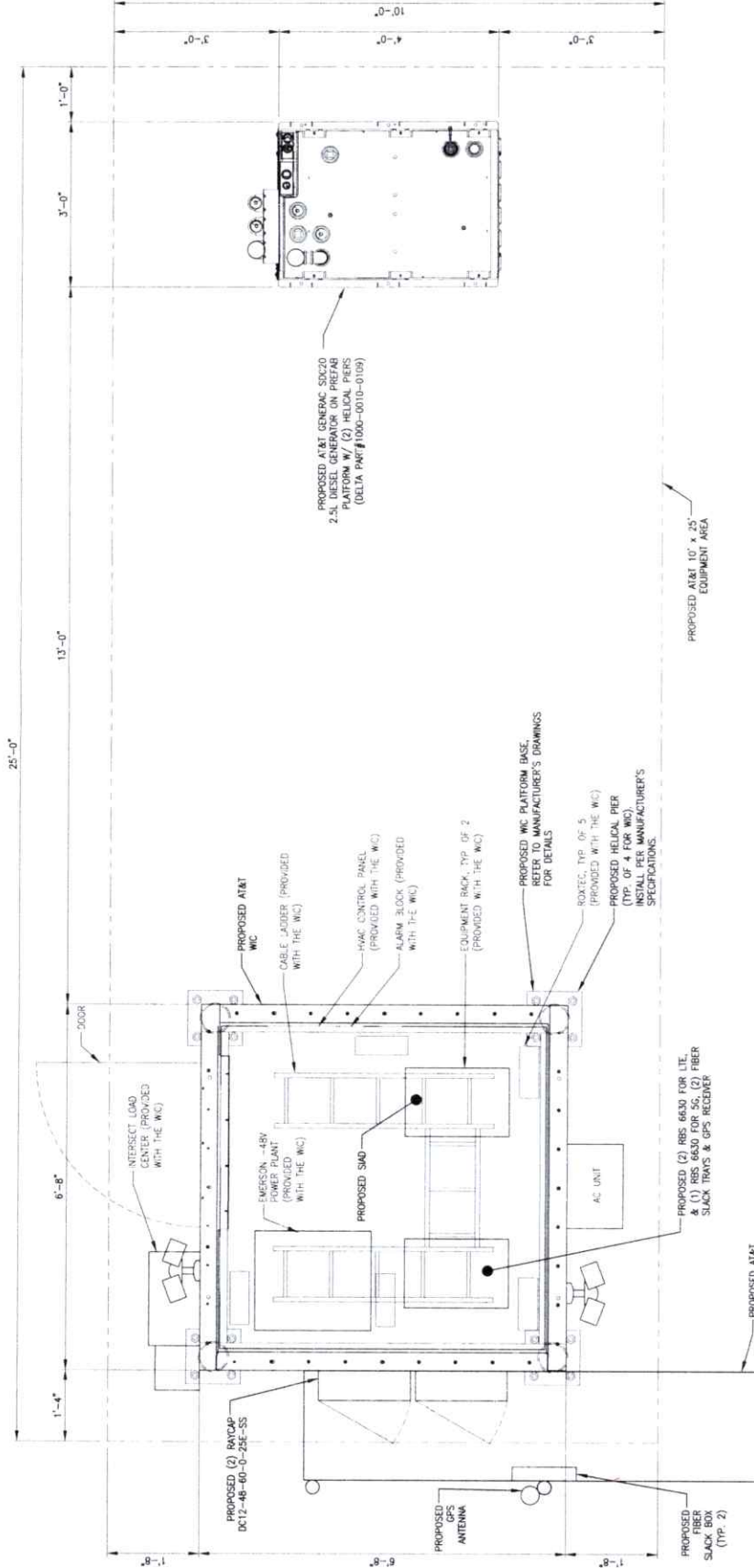
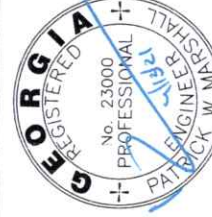
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AT&T
EQUIPMENT PLAN

C-3A



AT&T EQUIPMENT PLAN
1"=1'-0" (FULL SIZE)
1/2"=1'-0" (1/4x17)



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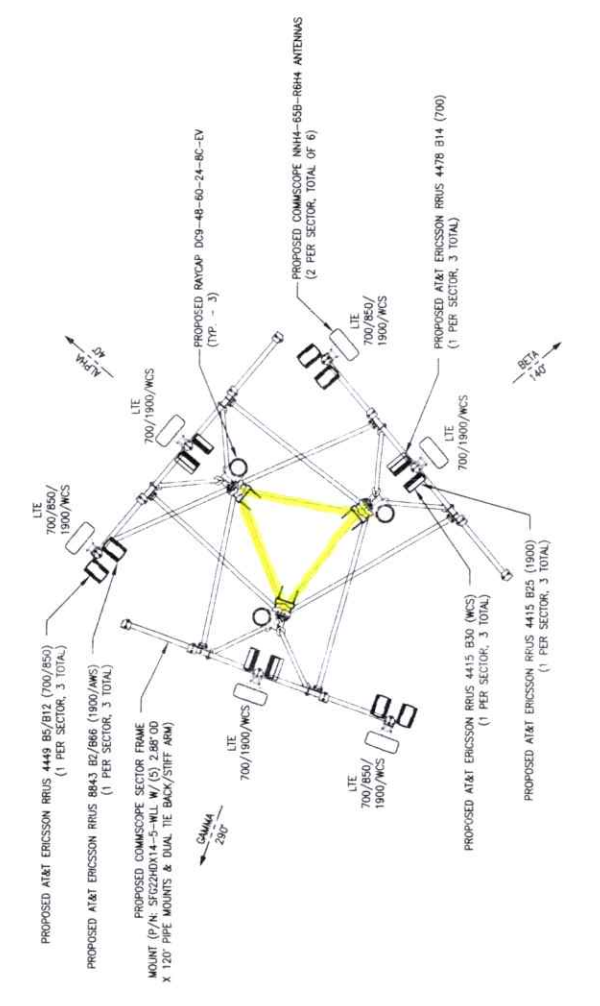
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 DRAWN: SDM
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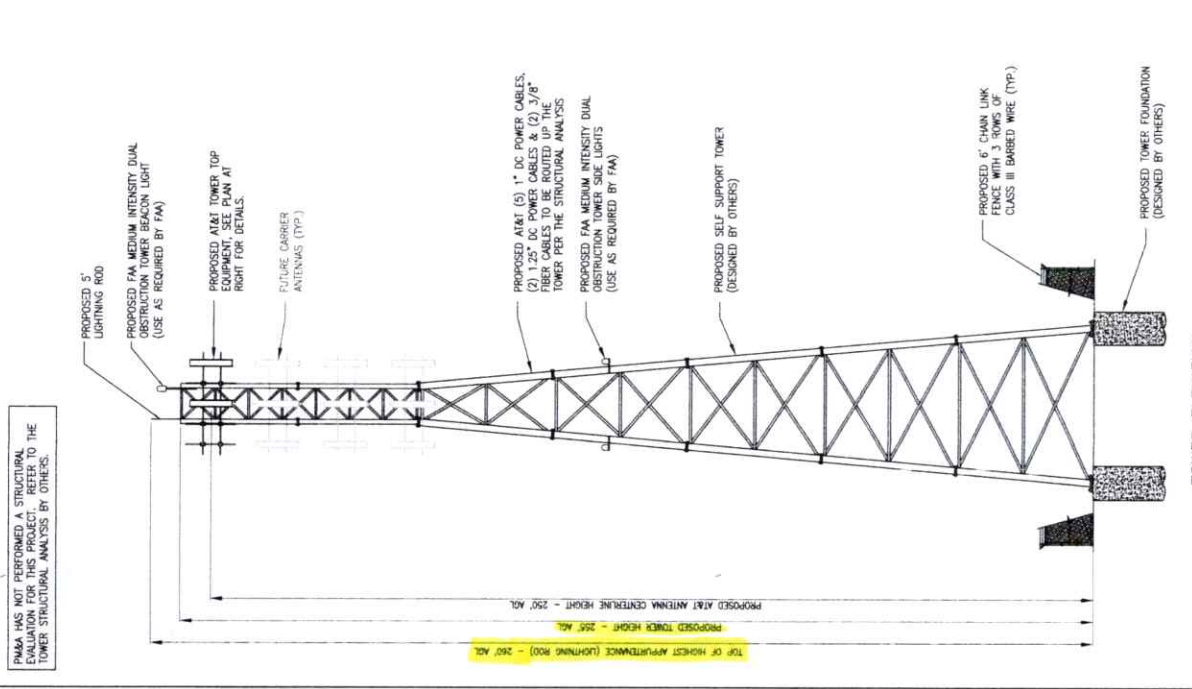
TOWER ELEVATION & ANTENNA ORIENTATION

C-4

- NOTES:**
- DO NOT INSTALL RAYCAPS OR RRUS IN A MANNER THAT OBSCURES THE LIGHTS OR SIGNALS OF THE CONSTRUCTION.
 - THE CONTRACTOR SHALL OBTAIN THE FINAL RRFS PRIOR TO CONSTRUCTION.
 - MAINTAIN AT LEAST 3' HORIZONTAL SEPARATION BETWEEN 700 B14 FRET AND 700 MHz B/C & 700 MHz D/E ANTENNAS WITHIN THE SAME SECTOR/FACE.
 - MAINTAIN AT LEAST 9' HORIZONTAL SEPARATION BETWEEN 700 MHz B/C AND 700 MHz B/C ANTENNAS WITHIN THE SAME SECTOR/FACE.
 - PLEASE NOTE: ADDITIONAL HORIZONTAL SEPARATION MAY BE REQUIRED IF B14 AZIMUTHS ARE DIFFERENT FROM OTHERS OR IF ANTENNAS ARE SEVERELY ANGLED W/ RESPECT TO THE MOUNT. TYP. 3' HORIZONTAL SEPARATION CAN TOLERATE SKEW ANGLE UP TO 6 DEGREES.
 - MAINTAIN INTER-SECTOR SEPARATION > 3' BETWEEN THE CENTER OF THE ANTENNA BACKPLANES.
 - CONTRACTOR TO CONFIGURE ALL RAYCAP SOUND ALARMS TO FOLLOW THE SPECIFICATIONS OF THE RAYCAP MANUFACTURER'S SPECIFICATIONS.
 - 1.5L SOUND INSTALLED WILL BE ALARMED TO LOWEST BAND RRU TO THE ALPHA SECTOR.
 - 2ND SOUND INSTALLED WILL BE ALARMED TO LOWEST BAND RRU TO THE BETA SECTOR.
 - 3RD SOUND INSTALLED WILL BE ALARMED TO LOWEST BAND RRU TO THE GAMMA SECTOR.
 - SOUND ALARMS ARE NOT TO BE DUSTY CHAINED.



PROPOSED ANTENNA ORIENTATION DETAIL
 NOT TO SCALE



PMA&A HAS NOT PERFORMED A STRUCTURAL EVALUATION FOR THIS PROJECT. REFER TO THE TOWER STRUCTURAL ANALYSIS BY OTHERS.



ANSCO & ASSOCIATES, LLC



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ANTENNA & CABLE SCHEDULE

C-4A



SECTOR	POSITION	TECHNOLOGY / FREQUENCY	ANTENNA MAKE/MODEL	ANTENNA COUNT	ANTENNA RAD (FT)	AZIMUTH	TMA/FILTER	TMA/FILTER COUNT	RRU	RRU COUNT	SURGE PROTECTION	SURGE COUNT	COAX/CABLE	
ALPHA	A1	LTE 700/850/1900/ AWS	COMMSCOPE NNH4-65B-R6H4 (P)	1	250	40	-	-	RRUS-4449 B5/B12 (P) RRUS-8843 B2/B66 (P)	2	-	-	-	
	A2	-	-	-		-	-	-	-	-	-	-	-	-
	A3	LTE 700/1500/WCS	COMMSCOPE NNH4-65B-R6H4 (P)	1		-	40	-	-	RRUS-4478 B14 (P) RRUS-4415 B25 (P) RRUS-4415 B30 (P)	3	DC9-48-60-24-8C-EV (P)	1	(1) LTE FIBER (P) (3) LTE DC (P)
	A4	-	-	-		-	-	-	-	-	-	-	-	-
	A5	-	-	-		-	-	-	-	-	-	-	-	-
BETA	B1	LTE 700/850/1900/ AWS	COMMSCOPE NNH4-65B-R6H4 (P)	1	250	140	-	-	RRUS-4449 B5/B12 (P) RRUS-8843 B2/B66 (P)	2	-	-	-	
	B2	-	-	-		-	-	-	-	-	-	-	-	-
	B3	LTE 700/1500/WCS	COMMSCOPE NNH4-65B-R6H4 (P)	1		-	140	-	-	RRUS-4478 B14 (P) RRUS-4415 B25 (P) RRUS-4415 B30 (P)	3	DC9-48-60-24-8C-EV (P)	1	(1) LTE FIBER (P) (3) LTE DC (P)
	B4	-	-	-		-	-	-	-	-	-	-	-	-
	B5	-	-	-		-	-	-	-	-	-	-	-	-
GAMMA	G1	LTE 700/850/1900/ AWS	COMMSCOPE NNH4-65B-R6H4 (P)	1	250	290	-	-	RRUS-4449 B5/B12 (P) RRUS-8843 B2/B66 (P)	2	-	-	-	
	G2	-	-	-		-	-	-	-	-	-	-	-	-
	G3	LTE 700/1500/WCS	COMMSCOPE NNH4-65B-R6H4 (P)	1		-	290	-	-	RRUS-4478 B14 (P) RRUS-4415 B25 (P) RRUS-4415 B30 (P)	3	DC9-48-60-24-8C-EV (P)	1	(1) LTE DC (P)
	G4	-	-	-		-	-	-	-	-	-	-	-	-
	G5	-	-	-		-	-	-	-	-	-	-	-	-
TOTAL				6				0		15			(2) FIBER (7) DC	

ANTENNA & CABLE SCHEDULE



ANSCO & ASSOCIATES, LLC



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CHECKED PVM
JOB# 20ANAT169-0028

GRADING AND EROSION CONTROL NOTES

C-6

GENERAL

THE VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOL AND SUBSURFACE LAYERS. FERTILIZER IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

CONVENTIONAL SEEDING EQUIPMENT, GRADE, SHAPE AND SLOPE, WHERE SEEDS TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCAMPING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDS MUST BE APPLIED TO THE SEEDBED IMMEDIATELY AFTER THE SCAMPING OPERATION. AFTER MULTIPASSER-SEEDER, DRILL, ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY WITHIN 24 HOURS AFTER SEEDING. STRAW OR HAY MULCH WILL BE SPREAD OVER THE SEEDBED IMMEDIATELY AFTER SEEDING. MULCHING SHALL BE DONE WITH A DISK AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)
AGRICULTURAL LIMESTONE #75 4000 LBS./ACRE
FERTILIZER, 5-10-15 1500 LBS./ACRE
MULCH (STRAW OR HAY) 5000 LBS./ACRE

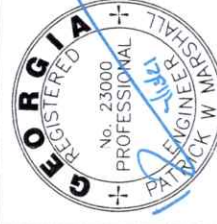
SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
HULLED COMMON BERMUDEA GRASS	10 LBS.	3/1 - 6/15
FESCUE	50 LBS.	9/1 - 10/31
FESCUE	50 LBS.	11/1 - 2/28
RYE GRASS	50 LBS.	
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15 - 8/31

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL
FERTILIZER (AMMONIUM NITRATE 33.5%) 300 LBS./ACRE

C. SECOND-YEAR TREATMENT:
FERTILIZER (5-10-15 OR EQUIVALENT) 800 LBS./ACRE

Disturbed Area Stabilization (with Temporary Seeding)

Disturbed Area Stabilization (with Permanent Vegetation)



GENERAL

THE VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOL AND SUBSURFACE LAYERS. FERTILIZER IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

HYDRAULIC SEEDING EQUIPMENT, WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A UNIFORM Mixture IMMEDIATELY BEFORE SEEDING. MULCHING SHALL BE DONE WITH A DISK AND ANCHORED IMMEDIATELY AFTER SEEDING. MULCHING SHALL BE DONE WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)
AGRICULTURAL LIMESTONE #75 4000 LBS./ACRE
FERTILIZER, 5-10-15 1500 LBS./ACRE
MULCH (STRAW OR HAY) OR WOOD CELLULOSE FIBER MULCH 1000 LBS./ACRE

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
SERICA LESPEDEZA, SCARIFIED WEeping LOVe GRASS, OR COMMON BERMUDEA, HULLED	60 LBS. 4 LBS. 6 LBS.	3/1 - 6/15
FESCUE	40 LBS.	9/1 - 10/31
SERICA LESPEDEZA, UNSCARIFIED	60 LBS.	
FESCUE	40 LBS.	11/1 - 2/28
SERICA LESPEDEZA, UNSCARIFIED	75 LBS.	
RYE	50 LBS.	
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15 - 8/31

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL
FERTILIZER (AMMONIUM NITRATE 33.5%) 300 LBS./ACRE

C. SECOND-YEAR TREATMENT:
FERTILIZER (0-20-20 OR EQUIVALENT) 500 LBS./ACRE

Disturbed Area Stabilization (with Temporary Seeding)

Disturbed Area Stabilization (with Permanent Vegetation)

PIEDMONT VEGETATIVE COVERS

CALENDAR MONTH	TEMPORARY SEED APPLICATION RATE/ACRE	PERMANENT SEED	APPLICATION RATE/ACRE
1. JANUARY	RYE GRASS 40-50 LB.	UNHULLED BERMUDEA SERICIA LESPEDEZA 2	8-10 LB. 30-40 LB. 1
2. FEBRUARY		UNHULLED BERMUDEA SERICIA LESPEDEZA 2 FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
3. MARCH	RYE ANNUAL LESPEDEZA WEeping LOVe GRASS 2-3 BU. 20-25 LB.	UNHULLED BERMUDEA SERICIA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
4. APRIL	RYE ANNUAL LESPEDEZA WEeping LOVe GRASS 2-3 BU. 30-40 LB. 20-25 LB. SUDAN ANNUAL 35 LB.	WEeping LOVe GRASS HULLED BERMUDEA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
5. MAY	WEeping LOVe GRASS BROWN TOP MILLET 4-6 LB. 35 LB. 30-40 LB.	WEeping LOVe GRASS HULLED BERMUDEA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
6. JUNE	WEeping LOVe GRASS SUDAN GRASS 4-6 LB. 35 LB.	WEeping LOVe GRASS HULLED BERMUDEA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
7. JULY	WEeping LOVe GRASS BROWN TOP MILLET 4-6 LB. 35 LB. 30-40 LB.	WEeping LOVe GRASS HULLED BERMUDEA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
8. AUGUST	RYE GRASS WEeping LOVe GRASS 40-50 LB. 4-6 LB.		
9. SEPTEMBER		TALL FESCUE	30-50 LB.
10. OCTOBER	WHEAT 2-3 BU.	UNHULLED BERMUDEA SERICIA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
11. NOVEMBER	WHEAT 2-3 BU.	UNHULLED BERMUDEA SERICIA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
12. DECEMBER	RYE GRASS WEeping LOVe GRASS 2-3 BU. 40-50 LB. 2-3 BU.	UNHULLED BERMUDEA SERICIA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.

1 USE A MINIMUM OF 40 LBS. SCARIFIED SEED. THE REMAINDER MAY BE UNSCARIFIED.

2 USE EITHER COMMON SEPALA OR INTERSTATE SERICIA LESPEDEZA.

Disturbed Area Stabilization (with Temporary Seeding)

Disturbed Area Stabilization (with Permanent Vegetation)



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FA LOCATION CODE:
15173580

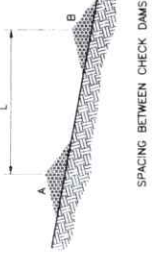
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A	04/06/21	ISSUED FOR REVIEW
0	04/13/21	ISSUED FOR CONSTRUCTION

DESIGNED: SDM
DRAWN: SDM
CHECKED: PWM
JOB# 20-ANATNG9-0028

GRADING AND EROSION CONTROL DETAILS

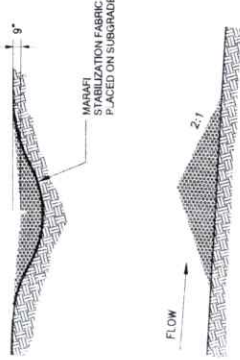
C-7

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

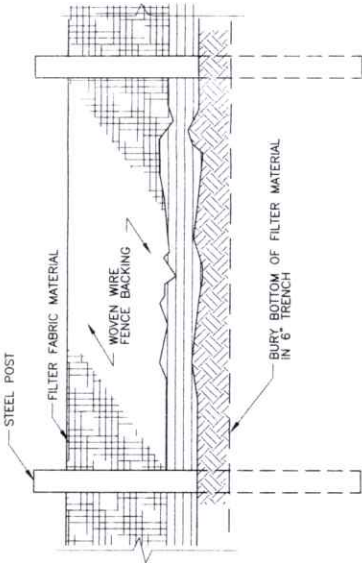


SPACING BETWEEN CHECK DAMS

STONE CHECK DAM



FLOW



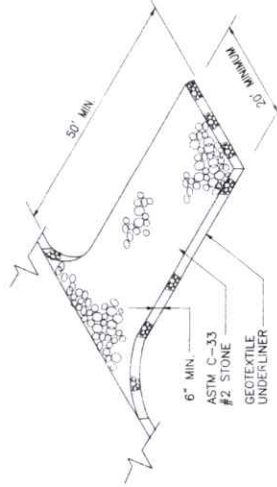
NOTE: USE 36" DOT APPROVED FABRIC
USE STEEL POSTS

SILT FENCE, TYPE-C
NOT TO SCALE



NOTES:
CHECK DAMS TO BE CONSTRUCTED OF GRADED SITE 2 - 18 INCH STONE
MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO INSURE COMPLETE
COVERAGE OF ENTIRE WIDTH OF DITCH OR SWALE AND THAT CENTER OF DAM
IS LOWER THAN EDGES.
SEDIMENT TO BE REMOVED WHEN A LEVEL OF 1/2 THE ORIGINAL DAM HEIGHT
OR LESS IS REACHED. REMOVE CHECK DAMS AT COMPLETION OF PROJECT
AND TREAT RESULTING DISTURBED AREAS AS REQUIRED.

Co CHECK DAM
NOT TO SCALE



Co CONSTRUCTION EXIT
NOT TO SCALE





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AT&T SITE ID:
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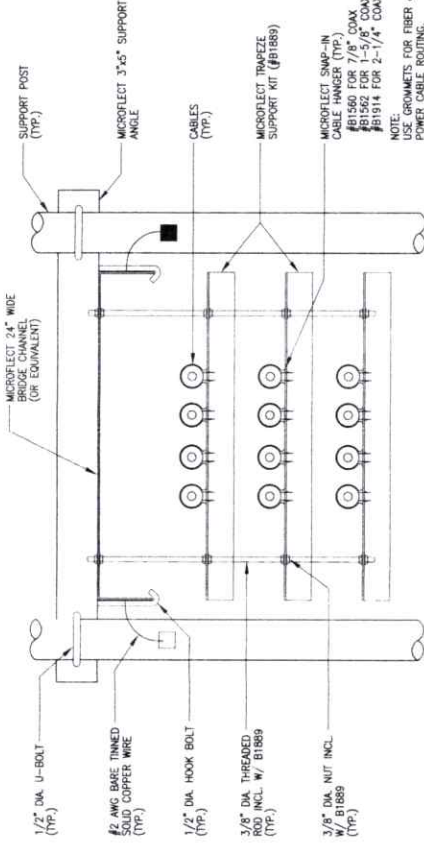
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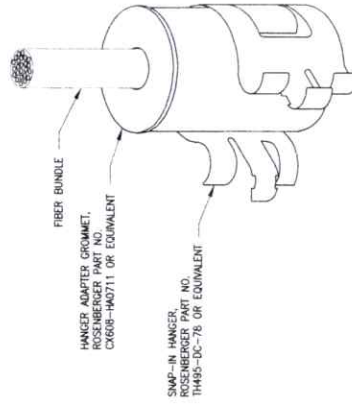
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JOB# 20AANA1N09-0028

EQUIPMENT
DETAILS

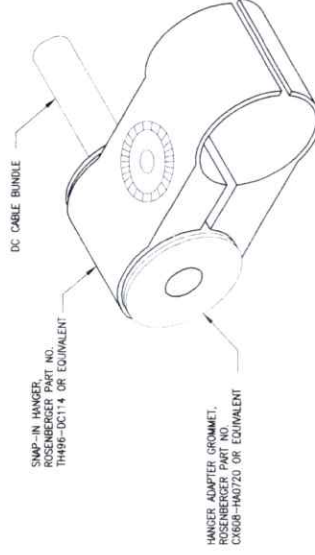
C-8



CABLE TRAPEZE DETAIL
NOT TO SCALE



SMP-IN HANGER

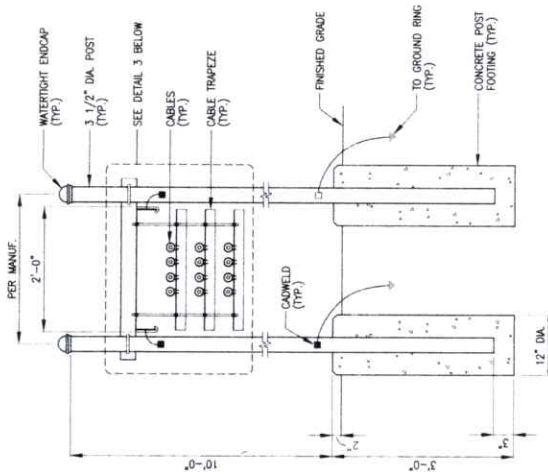
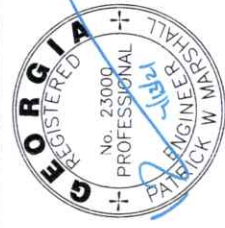


DOUBLE CLAMP

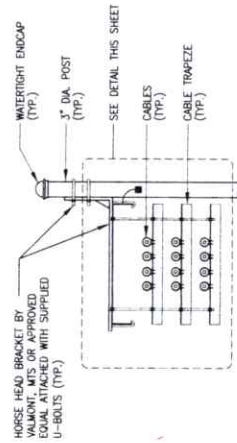
NOTES:

1. REFER TO USA DOCUMENTS FOR EXACT CABLE NUMBER AND MANUFACTURER SPECIFICATIONS FOR PROPER GROMMETS AND HANGERS TO SUPPORT THE FIBER AND DC CABLE BUNDLES.
2. REFER TO STRUCTURAL ANALYSIS FOR EXACT CABLE ROUTING AND MOUNTING CONFIGURATION.

HANGER ADAPTER GROMMET DETAILS
NOT TO SCALE



ICE BRIDGE SECTION
NOT TO SCALE



ICE BRIDGE SECTION
(ALTERNATE HORSE HEAD)
NOT TO SCALE



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P. MARSHALL & ASSOCIATES

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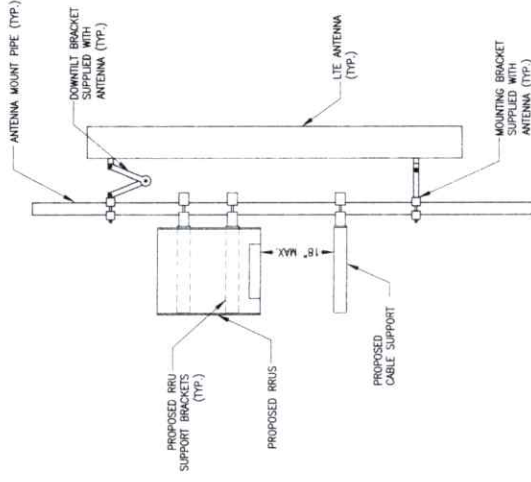
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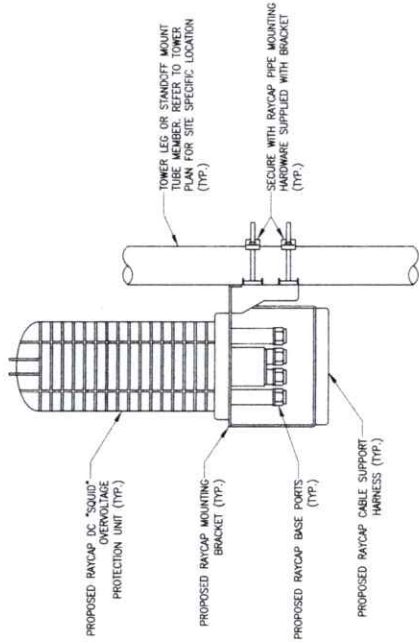
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JOB# 20ANNTW05-0028

**EQUIPMENT
DETAILS**

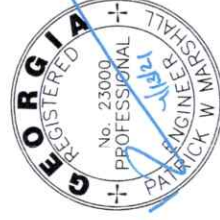
C-9



LIE ANTENNA & RRU MOUNT DETAIL
NOT TO SCALE



RAYCAP SQUID MOUNT DETAIL
NOT TO SCALE





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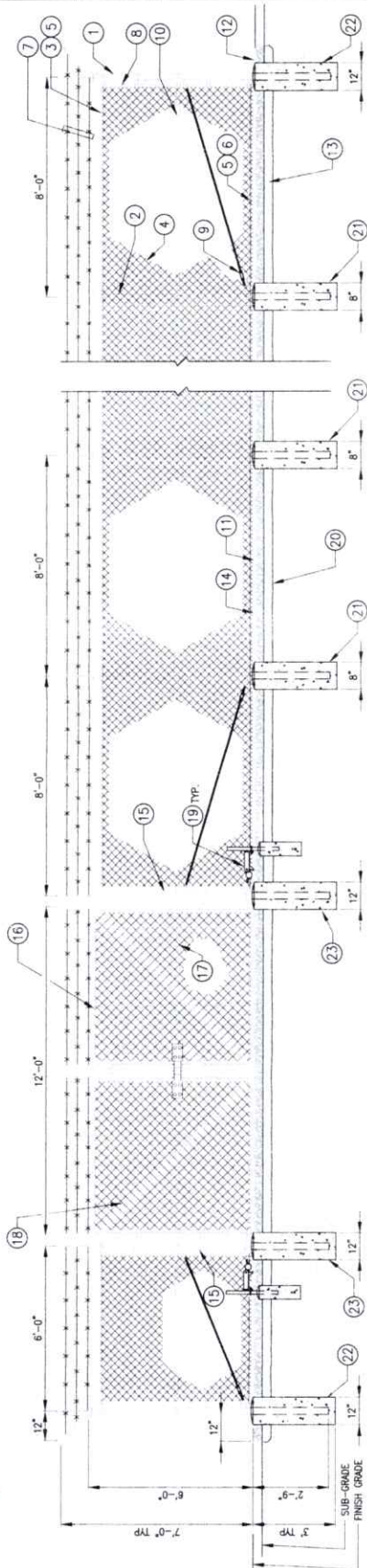
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REV	DATE	DESCRIPTION
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DRAWN SDM
CHECKED PVM
JOB# 20A00AT1909-0028

FENCE DETAILS

C-10




FENCE DETAILS
NOT TO SCALE

REFERENCE NOTES:


- 1 CORNER, END OR PULL POST 3" NOMINAL SCHEDULE 40 PIPE.
- 2 LINE POST: 2 1/2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.
- 3 TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083.
- 4 FABRIC: 9 GA CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- 5 TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS. A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HQ.
- 6 TENSION WIRE: 9 GA GALVANIZED STEEL.
- 7 BARBED WIRE: DOUBLE STRAND 12-1/2" O.D., TWISTED WIRE TO MATCH WITH FABRIC. 14 GA, 4 FT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- 8 STRETCHER BAR.
- 9 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
- 10 FENCE CORNER POST BRACE: 1 5/8" DIA. EACH CORNER EACH WAY.
- 11 1 1/2" MAXIMUM CLEARANCE FROM GRADE.
- 12 2" FINISH OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.
- 13 4" COMPACTED BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.
- 14 FINISH GRADE SHALL BE UNIFORM AND LEVEL.
- 15 GATE POST 4" SCHEDULE 40 PIPE, FOR GATE WIDTHS UP TO 14 FEET OR 14 FEET FOR DOUBLE SWING GATE, PER ASTM-F1083.
- 16 GATE FRAME: 1 1/2" PIPE, PER ASTM-F1083.
- 17 GATE FRAME: 1 5/8" DIAMETER PIPE, PER ASTM-F1083.
- 18 GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE.
- 19 DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION.
- 20 GEOTEXTILE FABRIC.
- 21 LINE POST: CONCRETE FOUNDATION (2000 PSI)
- 22 CORNER POST: CONCRETE FOUNDATION (2000 PSI)
- 23 GATE POST: CONCRETE FOUNDATION (2000 PSI)

GENERAL NOTES:

1. INSTALL FENCING PER ASTM F-567
2. INSTALL SWING GATES PER ASTM F- 900
3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED.
4. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 1 1/2" GALV. (HOT DIP, ASTM A20 GRADE "A" STEEL). ALL WELLS SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
5. ALL OPEN POSTS SHALL HAVE END-CAPS.
6. USE GALVANIZED HOG-RING WIRE TO MOUNT ALL SIGNS.
7. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC.



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SIGNAGE NOTES:

- SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT MATERIALS AND FINISHED WITH LONG LASTING UV RESISTANT COATINGS.
- SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE ALUMINUM OR ALUMINUM SIGNAGE. SIGNAGE SHALL BE OF 3 GAUGE ALUMINUM WIRE. HOSS SIGNS (FENCES OR BRACKETS, WHERE NECESSARY, BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
- ADDITIONAL EBT1 ADDRESS & FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE AND AT EACH GATE AS WELL AS ON THE COMPOUND GATE ITSELF.
- AT&T SITE # & EMERGENCY CONTACT SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE AND AT EACH CORNER ON THE BACKSIDE TO ADJACENT UNTIL THE ADHESIVE SETS.

INFORMATION
Federal Communications Commission
Tower Registration Number
1 2 3 4 5 6 7
PRINTED IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION REGULATIONS (47 CFR 17.461)

INFORMATION
ACTIVE ANTENNAS ARE MOUNTED
 ON THE OUTSIDE FACE OF THIS BUILDING
 BEHIND THIS PANEL
 ON THE STRUCTURE
STAY BACK A MINIMUM OF 3 FEET FROM THESE ANTENNAS
Contact AT&T Mobility at 800-468-2622 and the tower location page to reporting any antenna or equipment that is 10 feet from the antenna.
This is an AT&T Mobility Site

INFORMATION
Ratio frequency fields near some radio frequency towers are within FCC rules for human exposure.
Personnel entering this tower should be aware of the potential for RF exposure. Personnel should avoid standing near active antennas.

CAUTION
On this tower:
Ratio frequency fields near some radio frequency towers are within FCC rules for human exposure.
Personnel entering this tower should be aware of the potential for RF exposure. Personnel should avoid standing near active antennas.

NOTICE
AUTHORIZED PERSONNEL ONLY

INFORMATION
ACTIVE ANTENNAS ARE MOUNTED
 ON THE OUTSIDE FACE OF THIS BUILDING
 BEHIND THIS PANEL
 ON THE STRUCTURE
STAY BACK A MINIMUM OF 3 FEET FROM THESE ANTENNAS
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PROPERTY OF AT&T
Authorized Personnel Only
In case of emergency, or prior to performing maintenance on this site, call and reference call site number.

PROPERTY OF AT&T
Authorized Personnel Only
No Trespassing Violators will be Prosecuted
In case of emergency, or prior to performing maintenance on this site, call and reference call site number.

PROPERTY OF AT&T - DOOR
WHITE/ORANGE BACKGROUND, BLUE/WHITE LETTERING
MOUNTING LOCATION: SHELTER DOOR
MOUNTING LOCATION: CABINET DOORS
QUANTITY: 1 PER CABINET DOOR

PROPERTY OF AT&T
Authorized Personnel Only
In case of emergency, or prior to performing maintenance on this site, call and reference call site number.

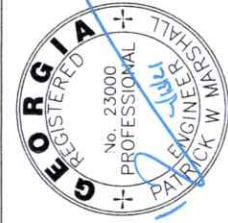
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Authorized Personnel Only
No Trespassing Violators will be Prosecuted
In case of emergency, or prior to performing maintenance on this site, call and reference call site number.

PROPERTY OF AT&T - DOOR
WHITE/ORANGE BACKGROUND, BLUE/WHITE LETTERING
MOUNTING LOCATION: SHELTER DOOR
MOUNTING LOCATION: CABINET DOORS
QUANTITY: 1 PER CABINET DOOR

HAZARDOUS MATERIALS
MOUNTING LOCATION: FUEL STORAGE TANK / GENERATOR
QUANTITY: 1

HAZARDOUS MATERIALS
MOUNTING LOCATION: FUEL STORAGE TANK / GENERATOR
QUANTITY: 1

HAZARDOUS MATERIALS
MOUNTING LOCATION: FUEL STORAGE TANK / GENERATOR
QUANTITY: 1



SIGN DETAILS

C-11

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT OBSCURED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELLEORDA.
4. ALL CIRCUITS SHALL BE SEPARATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELLEORDA.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., NOTES), GROUNDING, AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMWOOD PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR CAPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMWOOD PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V. OIL RESISTANT THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V. OIL RESISTANT THIN OR THIN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V. RESISTANT THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET, LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WRENCHES BY THOMAS AND BETTS (OR EQUAL). LUGS AND WRENCHES SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40), OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCH 80 PVC TO BE USED FOR ALL OUTDOOR ELBOWS, RISERS AND ABOVE GRADE STUB-UPS.
18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FILEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WRENCHES SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE FANOUT TYPE E (OR EQUAL), AND RATED NEMA 1 (OR BETTER), INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA 3S 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2, AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, BUS, LIGHTNING PROTECTION, AND GAS POWER CASES) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND B1) FOR GROUND ELECTRODE SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH SPECIFICATION 24782-000-3P5-EG00-0001. USE OF OTHER METHODS MUST BE PRE-APPROVED BY CONTRACTOR IN WRITING.
3. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO TWICE THE BURIED LENGTH OF THE RODS.
4. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
6. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO B'S EQUIPMENT.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONNECTIONS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 8 INCHES.
10. EACH INDOOR B'S CABINET FRAME/RUNTS SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH #6 AWG STRANDED, GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES. EACH OUTDOOR CABINET FRAME/RUNTS SHALL BE DIRECTLY CONNECTED TO THE BURIED GROUND RING WITH # 2 AWG SOLID TIN-PLATED COPPER WIRE.
11. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
12. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. CONNECTIONS TO ABOVE GRADE EXTERIOR UNITS SHALL BE MADE WITH EXOTHERMIC WELDS WHERE PRACTICAL OR WITH 2 HALE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS. HIGH PRESSURE CRIMP CONNECTORS MAY ONLY BE USED WITH WRITTEN PERMISSION FROM VERIZON MARKET REPRESENTATIVE.
13. EXOTHERMIC WELDS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTOR'S STRUCTURAL ENGINEER.
14. ALL WIRE TO WIRE GROUND CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE FORMED USING HIGH PRESS CRIMPS OR SPIT BOLT CONNECTORS WHERE INDICATED IN THE DETAILS.
15. ON ROOFTOP SITES WHERE EXOTHERMIC WELDS ARE A FIRE HAZARD COPPER COMPRESSION CAP CONNECTORS MAY BE USED FOR WIRE TO WIRE CONNECTIONS. 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS SHALL BE USED FOR CONNECTION TO ALL ROOFTOP B'S EQUIPMENT AND STRUCTURAL STEEL.
16. ICE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR USING TWO HOLE MECHANICAL TYPE BRASS CONNECTORS AND STAINLESS STEEL HARDWARE.
17. APPROVED ANTI-OXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
18. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
19. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
20. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF THE BURIED GROUND RING WITH #2 SOLID AWG TIN-PLATED COPPER GROUND CONDUCTOR.
21. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE BOLTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT WITH LISTED BONDING FITTINGS.



ANSCO & ASSOCIATES, LLC

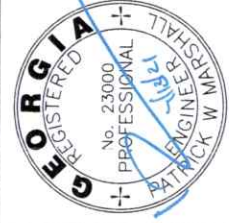


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CHECKED PAM
JOB# 20AANATNDP-0028



GENERAL & ELECTRICAL & GROUNDING NOTES

E-1



ANSCO & ASSOCIATES, LLC



AT&T SITE ID:
GA6182

FA LOCATION CODE:
15173580

REV	DATE	DESCRIPTION
A	04/06/21	ISSUED FOR REVIEW
0	04/13/21	ISSUED FOR CONSTRUCTION

DESIGNED: SDM
DRAWN: SDM
CHECKED: PWM
JOB#: Z06ANAT1005-0028

COMPOUND ELECTRICAL & GROUNDING PLAN

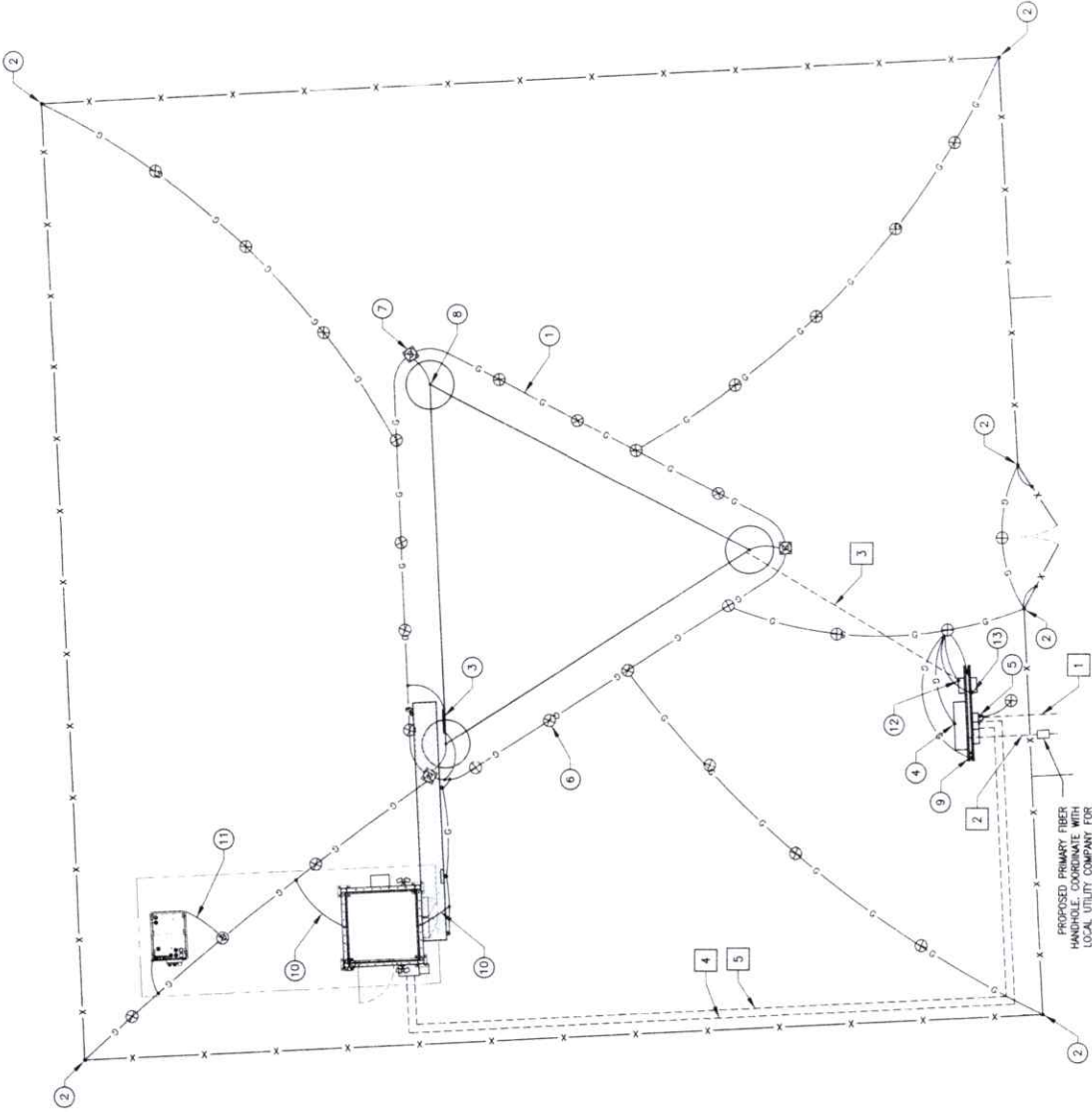
E-2

ELECTRICAL KEY NOTES:

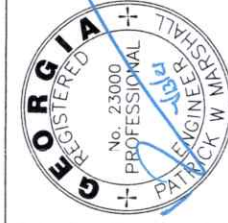
- 1 PROPOSED 3" SCH. 40 PVC CONDUIT, 36" BELOW GRADE FOR POWER SERVICE TO LOCAL UTILITY SHALL BE COORDINATED WITH THE LOCAL UTILITY PROVIDER TO VERIFY THE EXACT ROUTE TO MEET POINT. SCH. 80 PVC SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- 2 PROPOSED 3" SCH. 40 PVC CONDUIT, 36" BELOW GRADE FOR FIBER FROM PROPOSED TELCO BOX TO PROPOSED HANDHOLE OUTSIDE THE COMPOUND. FIBER PROVIDER TO VERIFY EXACT ROUTE. SCH. 80 PVC SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- 3 PROPOSED 2" SCH. 40 PVC CONDUIT ROUTED FROM TOWER LIGHTING CONTROLLER TO NEAREST TOWER LEG.
- 4 PROPOSED 2" PVC CONDUIT FOR POWER SERVICE TO MULTI-TENANT UTILITY FRAME.
- 5 PROPOSED 2" PVC CONDUIT FOR TELCO SERVICE TO MULTI-TENANT UTILITY FRAME.

GROUNDING KEY NOTES:

- 1 #2 AWG BARE TINNED SOLID COPPER GROUND RING BURIED 30" BELOW GRADE (TYP.).
- 2 BOND FENCE & GATE POSTS TO GROUND RING WITH DOWELED CONNECTIONS.
- 3 BOND TOWER MOUNTED GROUND BAR TO TOWER GROUND RING (TYP. - 2 PLACES).
- 4 GROUND TELCO CABINET & BUSS BAR TO GROUND RING PER MANUFACTURER'S SPECIFICATIONS.
- 5 1-#2/0 GROUNDING CONDUCTOR IN 1" PVC CONDUIT FOR SERVICE ENTRANCE.
- 6 PROPOSED GROUND ROD (TYP.).
- 7 PROPOSED GROUND ROD WITH INSPECTION WELL (TYP.).
- 8 BOND TOWER TO GROUND RING (TYP.).
- 9 BOND ALL H-FRAME POSTS TO GROUND RING (TYP.).
- 10 PROPOSED #2 AWG SOLID BARE TINNED COPPER WIRE FROM THE WC GROUND BARS TO THE TOWER GROUND RING.
- 11 BOND GENERATOR (TYP. 2 PLACES) & GENERATOR FRAME TO THE GROUND RING.
- 12 BOND TOWER LIGHTING CONTROLLER TO GROUND RING PER MANUFACTURER'S SPECIFICATIONS.
- 13 BOND TOWER LIGHTING LOAD CENTER TO GROUND RING PER MANUFACTURER'S SPECIFICATIONS.



COMPOUND ELECTRICAL PLAN
1"=5'-0" (FULL SIZE)
1"=10'-0" (1/4"=1')



- WIC ELECTRICAL & GROUNDING NOTES:**
- A BURIED GROUND RING IS NOT REQUIRED. THE HELICAL CABLE FIELD NOTICE DATED JULY 19, 2017.
 - SEE MANUFACTURER'S SPECIFICATIONS FOR THE GROUND & ELECTRICAL CONNECTIONS PRE-WIRED INSIDE THE WIC.
- ELECTRICAL KEY NOTES:**
- PROPOSED DC POWER CABLES FROM THE -48V BUS TO THE LITE RBS 6601 MAIN UNIT TO THE SMD. CONNECTION TO BE MADE FOR MU PER MFR. SPECIFICATIONS.
 - PROPOSED DC POWER CABLES FROM THE -48V BUS TO THE SMD THROUGH ROTEC PORT.
 - PROPOSED (1) TRUNK DC POWER CABLES FROM THE TOWER MOUNTED RAYCAPS TO THE GROUNDING RAYCAP UNDER RAYCAP TO THE RBS TRUNK MAIN UNIT. ROUTE CABLES THROUGH AN AT&T APPROVED RACK MOUNTED SLACK TRAY TO MANAGE EXCESS CABLE. ROUTE CABLES THROUGH ROTEC PORT IN WIC.
 - PROPOSED ALARM CABLES FROM THE NEW RAYCAPS UNIT TO THE ALARM BOARD.
 - PROPOSED (2) #12 AWG DC POWER CABLES FROM THE -48V BUS TO EACH LITE RBS 6601 MU (TYP).

- PROPOSED (2) #12 AWG DC POWER CABLES FROM THE -48V BUS TO THE SMD.
- PROPOSED FIBER CABLES ROUTED IN WIRE LOOM FROM THE TELCO REMARC TO THE SMD. ROUTE CABLES THROUGH ROTEC PORT.
- PROPOSED (1) 2" CONDUIT WITH (10) #6 AWG, (1) #6 FROM THE AC PANEL TO THE -48V DC PLANT. CONDUCTORS SHOULD BE RATED FOR 90 DEGREES CELSIUS. (MAY ALREADY BE WIRED BY WIC MANUFACTURER.)
- PROPOSED (3) #3/0 + (1) #4 GND IN A 2" CONDUIT FROM THE AT&T METER TO THE INTERSECT LOAD CENTER.
- PROPOSED 2" CONDUIT FOR FIBER FROM THE AT&T WIC TO THE MULTI-TENANT TELCO BOX.
- PROPOSED 1-1/2" CONDUIT WITH (5) #2 AWG + (1) #6 AWG FROM THE TRANSFER SWITCH TO THE GENERATOR.
- PROPOSED 1" CONDUIT WITH (2) #12 + (1) #12 GND FOR BATTERY CHARGER/ALOCK HEATER.
- PROPOSED 1" CONDUIT TO THE GENERATOR FOR LOW VOLTAGE CONTROL CABLES PER MANUFACTURER.

- PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM THE SMD TO THE INTERSECT LOAD CENTER PER MANUFACTURER'S SPECIFICATIONS.
- PROPOSED GROUND BAR WITH ISOLATORS MOUNTED AT TOP OF ALL NEW EQUIPMENT RACKS.
- PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM THE EQUIPMENT RACK GROUND BAYS TO THE GROUND BAR PROVIDED WITH THE WIC.
- PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM THE RBS 6601 TO THE EQUIPMENT GROUND BAR. GROUND PER MANUFACTURER'S SPECIFICATIONS.
- PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM THE SMD TO THE EQUIPMENT GROUND BAR. GROUND PER MANUFACTURER'S SPECIFICATIONS.
- PROPOSED #2 AWG SOLID BASE TINNED COPPER WIRE FROM THE ICE BRIDGE POSTS TO THE TOWER GROUND RING.
- PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM THE RAYCAPS TO THE WIC GROUND BAR. GROUND PER MANUFACTURER'S SPECIFICATIONS.
- PROPOSED #2 AWG SOLID BASE TINNED COPPER WIRE FROM THE WIC GROUND BAR TO THE TOWER GROUND RING.

- WIRING NOTES:**
- DC POWER WIRE SIZES #AWG AND LARGER SHALL BE TELCOFLEX 1V OR KS24194 L4 TYPE.
 - DC POWER WIRE SIZES 14AWG THROUGH 10AWG SHALL BE TELCOFLEX 1V OR KS24194 L3 TYPE.
 - ALL DC POWER WIRING SHALL BE GRAY IN COLOR.
 - ALL DC POWER WIRING SHALL HAVE VOLTAGE IDENTIFICATION PER AT&T REQUIREMENTS.
 - ALL DC POWER WIRING SHALL BE COMPLIANT WITH TELCOFLEX GRAY-CORE ISSUE 3 USING TINNED UL LISTED, NON-HALOGEN AND LOW SMOKE (LS) RATED.
 - ALL PROPOSED CONDUITS AND CABLE SPECIFICATIONS PER AT&T.



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2 MARSHALL & ASSOCIATES

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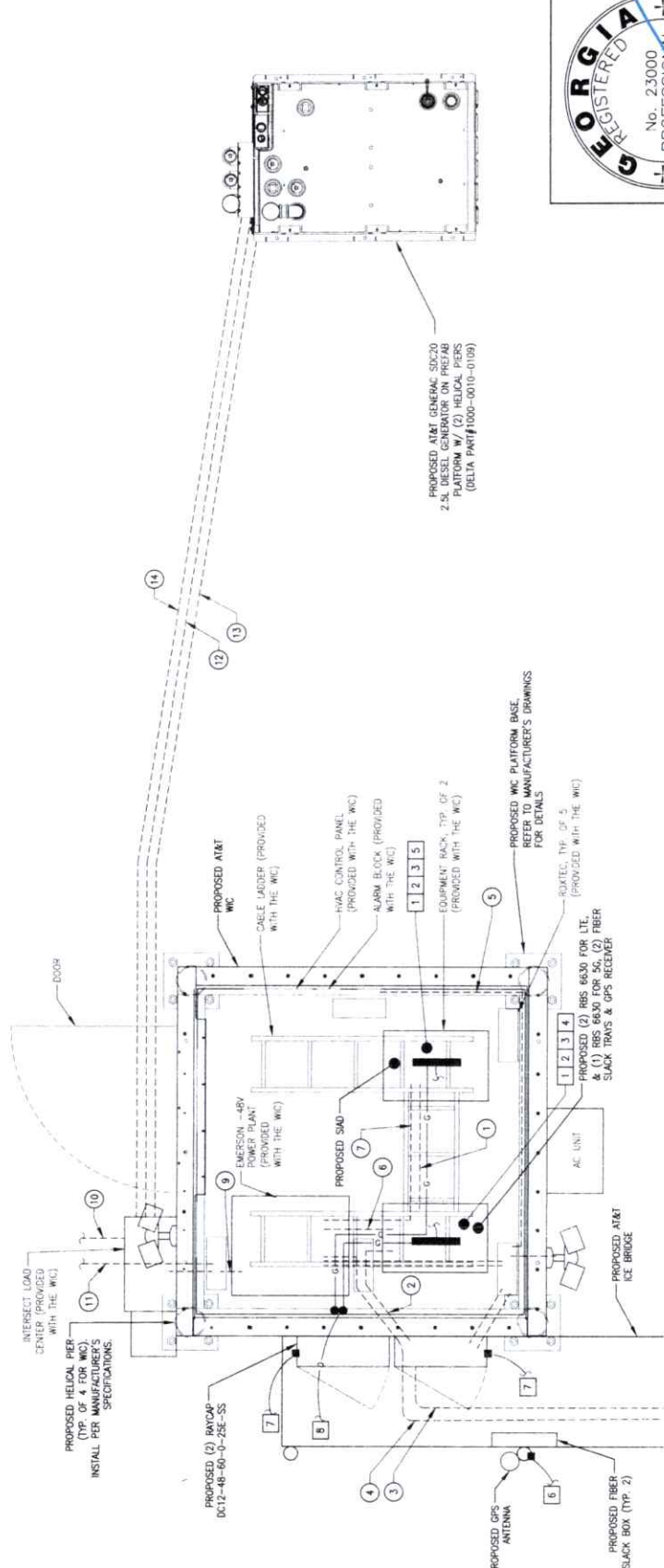
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AT&T ELECTRICAL & GROUNDING PLAN

E-3

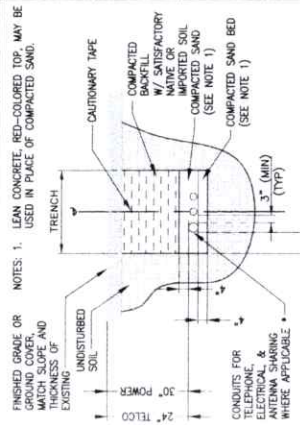


AT&T ELECTRICAL & GROUNDING PLAN
1/2"=1'-0" (FULL SIZE)
1/2"=1'-0" (11x17)



ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. ALL ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT OBSTRUCTED.
3. WIRING, RACKING AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELECOM.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELECOM.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STILE CABLE TRAYS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOT), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED IDENTIFICATION OR METALLIC TAPE (MIN. BRN. 1/2" INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & ISIRI.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL CONDUIT IDENTIFICATION, WIRE COMPARTMENT, PORTS OR INPUT WIRING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARD (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS.
9. ALL THE WIRING SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUNDING WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER) UNLESS OTHERWISE SPECIFIED. ALL WIRING SHALL BE IDENTIFIED WITH ENGRAVED LAMINATED PLASTIC LABELS (I.E., HOT, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED IDENTIFICATION OR METALLIC TAPE (MIN. BRN. 1/2" INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & ISIRI.
11. SUBSEQUENT EQUIPMENT GROUNDING WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OR RESISTANT THIN OR THIN-2, CLASS B STANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY).
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OR RESISTANT THIN OR THIN-2, CLASS B STANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION WITH OUTER JACKET, LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE COMP-STYLE COMPRESSION WIRE LUGS AND WRENCHES IF AVAILABLE, OR BUSHES (OR EQUAL). LUGS AND WRENCHES SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (MPC IF AVAILABLE).
14. POWER AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, AWS/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIBBON METALLIC CONDUIT (I.E., RIBBON PVC SCHEDULE 40 OR RIBBON PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGES) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIBBON METALLIC CONDUIT (RIBBON PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCH 80 PVC TO BE USED FOR ALL OUTDOOR ELBOWS, REISERS AND ABOVE GRADE STUB-UPS.
18. RIBBON METALLIC CONDUIT (I.E., RIBBON PVC SCHEDULE 40 OR RIBBON PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC, OR CHANGED IN REINFORCED CONCRETE IN AREAS OF HEAVY TRAFFIC.
19. ALL UNDERGROUND METALLIC CONDUIT (LIQUID-TITE FILL) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR POTENTIAL DAMAGE TO CONDUIT IS ANTICIPATED.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OF COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETBACK FITTINGS ARE NOT ACCEPTABLE.
21. CONDUIT, BOXES, AND WRENCHES SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, AWS/IEEE, AND NEC.
22. WRENCHES SHALL BE ENGRAVED (ENGR) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE HANDED TYPE (L OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), AND PULL BOXES SHALL BE GALVANIZED OR EPoxy-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. ALL METALLIC TUBING SHALL BE GALVANIZED (EPoxy-COATED), OR NON-CORRODING SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. MANUALLY RECEPTABLE SWITCHES AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAPING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.



NOTES:

1. CONDUITS SHALL BE SCH 40 PVC UNDERGROUND & SCH 80 PVC USED FOR ELBOWS, REISERS AND ABOVE GRADE STUB-UPS.
2. ALL PROPOSED CONDUITS AND CABLE SHOULD BE LABELED PER AIBT SPECIFICATIONS.
3. ALL CABLE PENETRATIONS IN JUNCTION BOXES AND SLACK BOXES SHOULD HAVE 1.5" x 50 CORO CONNECTORS EXCEPT WHERE TRANSITIONING TO CONDUIT.
4. LUGS USED FOR GROUNDING EQUIPMENT IN AN OUTDOOR ENVIRONMENT ARE REQUIRED TO BE A LUG WITHOUT AN INSPECTION WINDOW.
5. ALL DC POWER WIRING SHALL BE TELECOSAFE.

* CONDUIT SIZE, TYPE, QUANTITY AND SEPARATION SHALL BE DETERMINED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

DIRECT BURIED CONDUIT

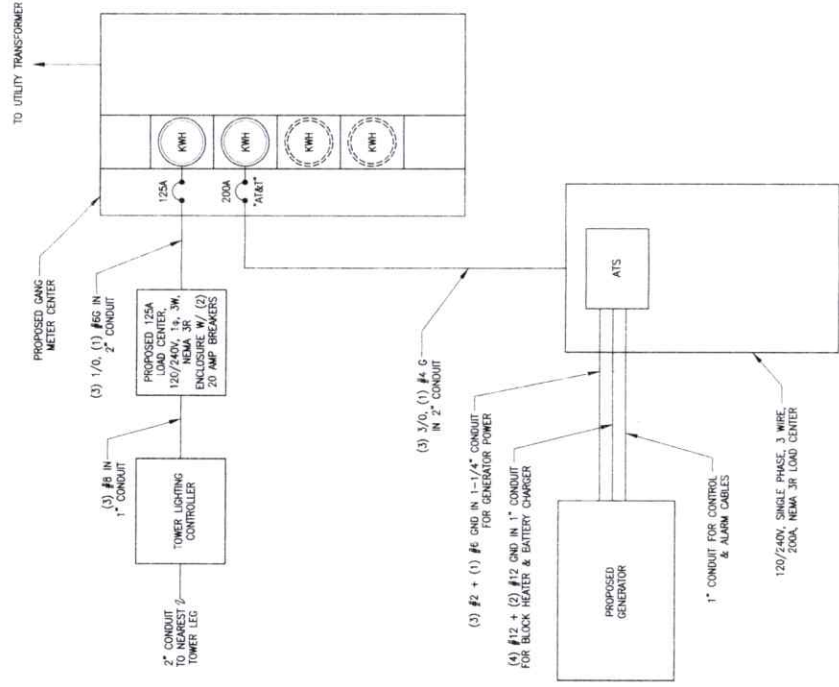
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DESIGNED SDM
 DRAWN SDM
 CHECKED PWM
 JOB# 2004ANATH99-0026



ELECTRICAL NOTES & ONE LINE DIAGRAM

E-4



NOTE: BREAKERS INSIDE THE MCC ARE PREWIRED. SEE MIC MANUFACTURER'S DRAWINGS FOR DETAILS.

AC ONE-LINE DIAGRAM



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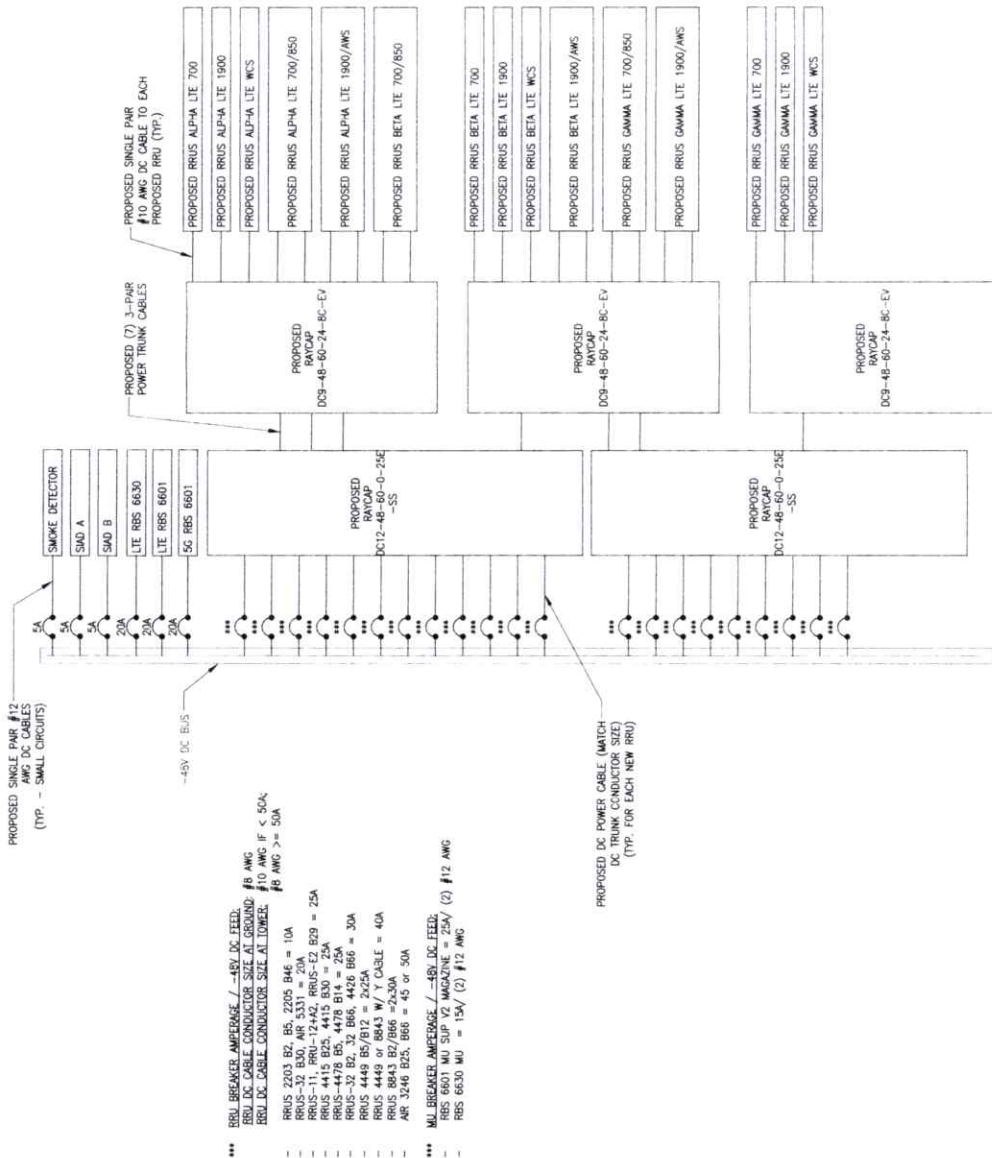
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DC ONE LINE
DIAGRAM

E-5



DC ONE LINE DIAGRAM
NOT TO SCALE

- ... RRU BREAKER AMPERAGE / -48V DC FEED:
RBS 6601 MU SUP V2 MAGAZINE = 25A/ (2) #12 AWG
RBS 6630 MU = 15A/ (2) #12 AWG
- ... RRU DC CABLE CONDUCTOR SIZE AT GROUND / # AWG IF < 50A:
RBS 6601 MU SUP V2 MAGAZINE = 25A/ (2) #12 AWG
RBS 6630 MU = 15A/ (2) #12 AWG
- ... RRU DC CABLE CONDUCTOR SIZE AT TOWER / # AWG >= 50A:
RRUS 2203 B2, B5, 2205 B4E = 10A
RRUS 31 B50, 40, 331 RRUS-E2, B29 = 25A
RRUS 4415 B25, 4415 B30 = 25A
RRUS 4478 B5, 4478 B14 = 25A
RRUS 4449 B5/B12 = 2X25A
RRUS 4449 B14 = 2X25A
RRUS 8843 B2, B66 = 45A
ARR 3246 B25, B66 = 45 or 50A



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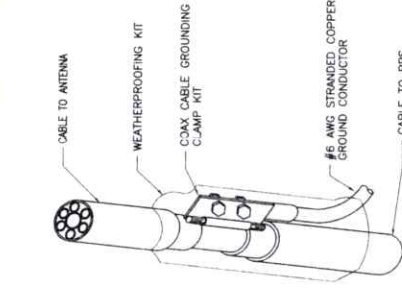
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**GROUNDING
DETAILS**

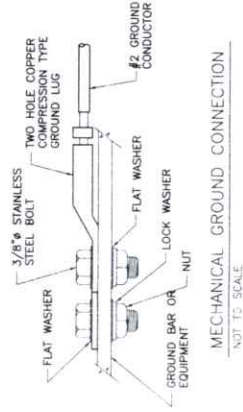
E-6



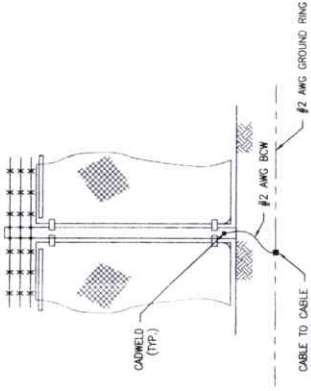
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND.
2. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
3. GROUNDING KIT & WEATHER PROOFING KIT SHALL BE TYPE & PART # AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

COAX CABLE GROUND KIT
NOT TO SCALE

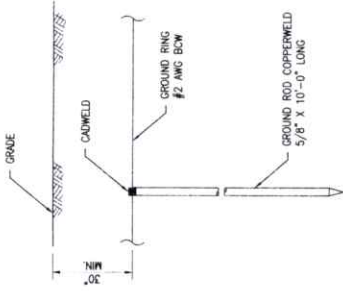


MECHANICAL GROUND CONNECTION
NOT TO SCALE



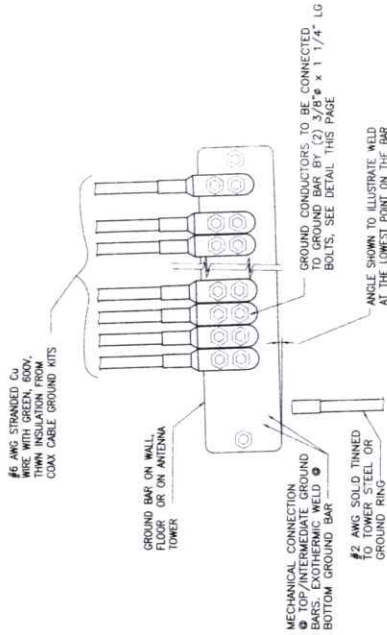
FENCE GROUNDING

NOT TO SCALE



GROUND ROD DETAIL

NOT TO SCALE



GROUND CONDUCTORS TO BE CONNECTED TO GROUND BAR BY (2) 3/8\"/>

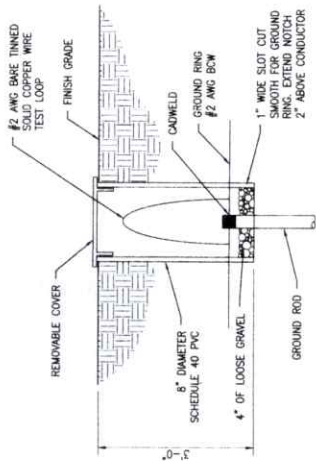
MECHANICAL CONNECTION OF GROUND BARS, EXOTHERMIC WELD BOTTOM GROUND BAR

#2 AWG SOLID TINNED COPPER WIRE OR #2 AWG BOW

ANGLE SHOWN TO ILLUSTRATE WELD AT THE LOWEST POINT ON THE BAR

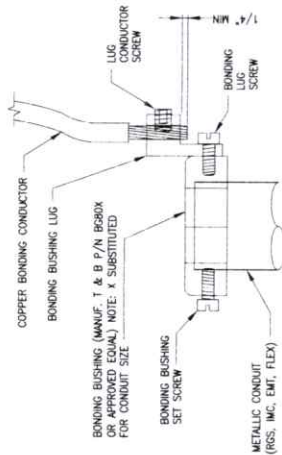
INSTALLATION OF GROUND WIRE TO COAX CABLE GROUND BAR

NTS



GROUND ROD INSPECTION WELL

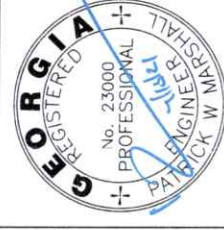
NOT TO SCALE



- DIRECTIONS:**
1. MOUNT BONDING BUSHING ONTO CONDUIT
 2. INSERT COPPER CONDUCTOR INTO LUG
 3. INSERT COPPER CONDUCTOR INTO LUG
 4. TIGHTEN LUG CONDUCTOR LUG SCREW
 5. TIGHTEN BONDING LUG SCREW
- NOTE: BONDING BUSHING SET SCREW, LUG LUG SCREW, CONDUIT LUG SCREW, SHOWN AS COMPLETE UNIT.

CONDUIT BOND/GROUND BUSHING

NTS





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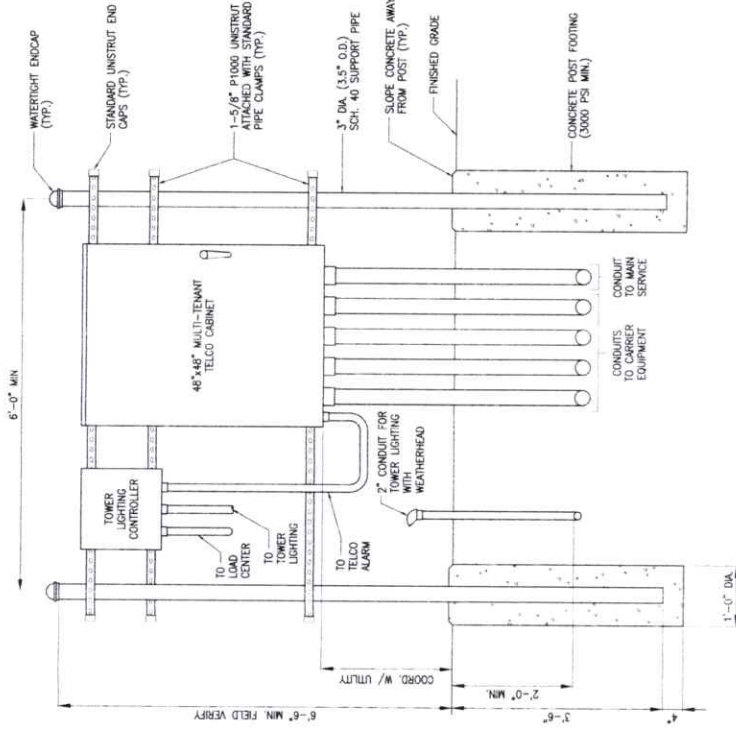
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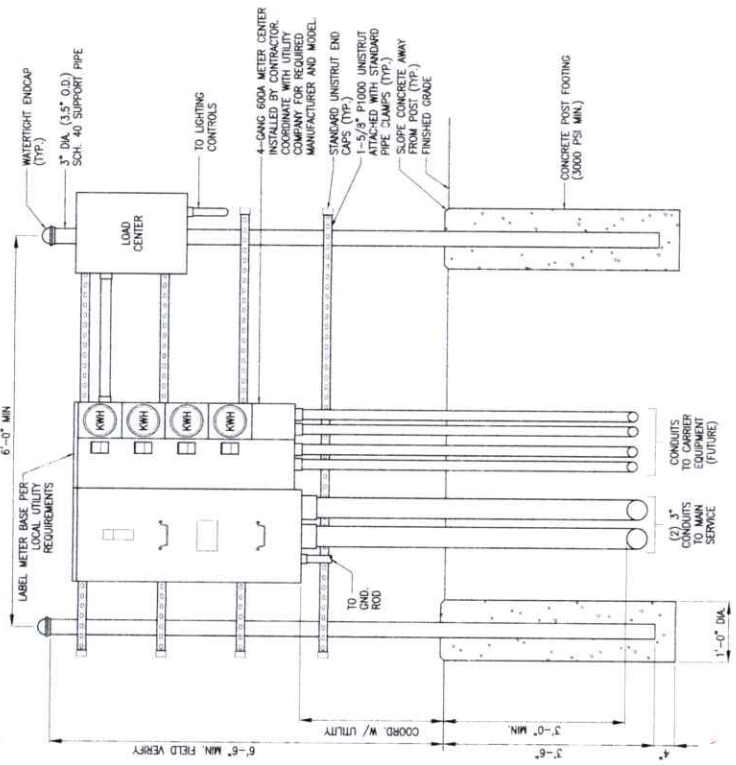
UTILITY H-FRAME
DETAIL

E-7



UTILITY FRAME DETAIL (TELCO)

NTS



UTILITY FRAME DETAIL (GANG METER)

NTS

NOTES:

- CONTRACTOR SHALL FIELD LOCATE THE METER PEDESTAL AS SHOWN ON SITE PLAN. INSTALL THE METER PEDESTAL NEAR THE PERIMETER OF THE FENCED COMPOUND WITH THE METERS FACING AS SHOWN.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND PEGGING AND GROUNDING. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
- SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
- TELO cabinet shall be 48"x48"x10" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
- ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXISTING UTILITY COMPANY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND MAKE NECESSARY ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.

FOR REFERENCE ONLY



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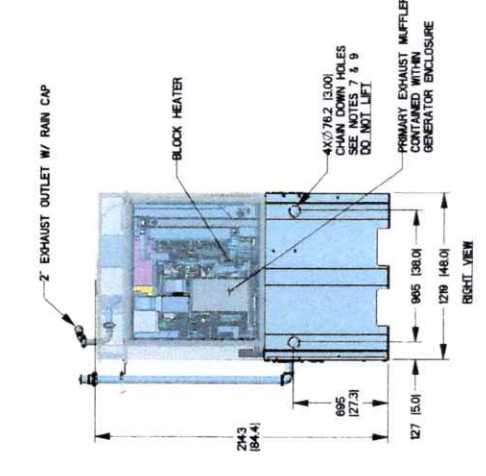
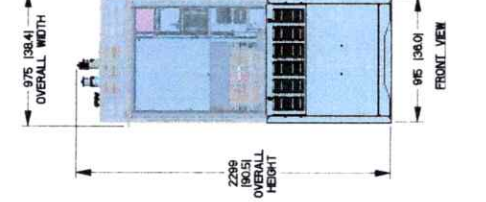
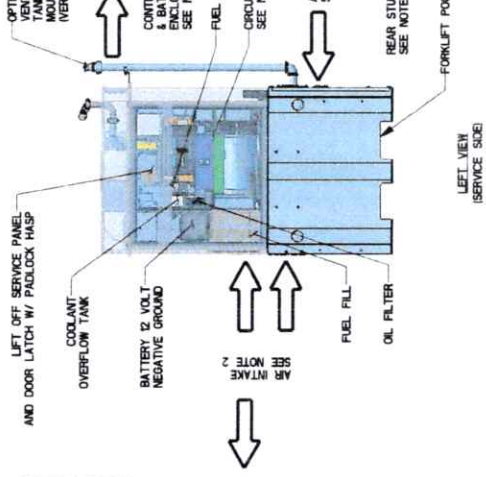
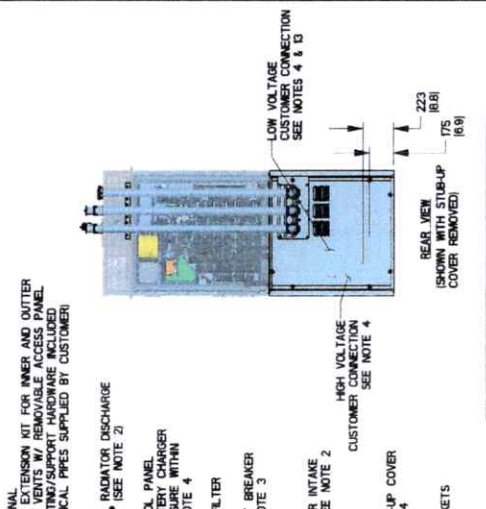
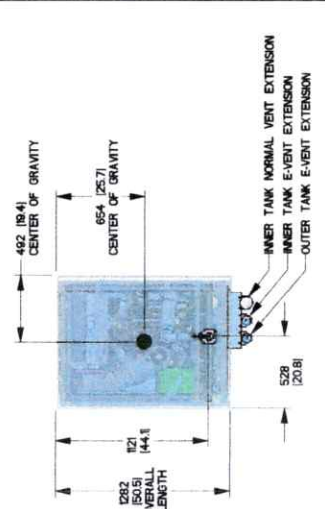
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GENERATOR SPECIFICATIONS

E-8

ITEMS ACCESSIBLE SERVICE SIDE OF UNIT	WEIGHT DATA WITH EMPTY BASETANK GENERATOR AS SHOWN (APPROX 1088.8 KG [2400 LBS])	WEIGHT DATA WITH FULL BASETANK GENERATOR AS SHOWN (APPROX 1595 KG [3075 LBS])
BATTERY		
CONTROL PANEL		
COOLANT OVERFLOW TANK		
COOLANT DRAIN		
MOTOR OIL DIPSTICK		
FUEL FILTER		
OIL FILL		
OIL FILTER		
OIL DRAIN		
MCOB		
FUEL FILL		
AIR FILTER		



GENERAC

TITLE: **INSTALL, D2.5L 20 KW AC, TELECOM**

ISSUE DATE: **1000013144**

SIZE: **B** CAGE NO: **N/A** DWG NO: **1000013144** REV: **1**

SCALE: **0.032** WT-KG: **1** SHEET: **1** of **2**

INTERNALLY APPROVED USER: **WANGILL**

DIMENSION (mm (inch))

INSTALLATION DRAWING

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

- NOTES:
- REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
 - ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE/SERVICE. INTAKE AIR FLOW AND RADIATOR/EXHAUST DISCHARGE THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH LOCAL, STATE AND LOCAL CODES.
 - CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL.
 - ACCESSIBLE WITH REMOVAL OF SERVICE PANEL.
 - ENGINE BLOCK HEATER 20 VOLT AC (0.5 AMP MAX) CONNECTION, AND NEUTRAL CONNECTION, BATTERY CHARGER 20 VOLT AC (0.5 AMP MAX) CONNECTION, AND ENGINE BLOCK HEATER 20 VOLT AC FACTORY WIRED CONNECTION.
 - LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES AND EXHAUST SYSTEM MAXIMUM BACK PRESSURE 240 INCHES OF H2O.
 - EXHAUST SYSTEM MAXIMUM BACK PRESSURE 240 INCHES OF H2O.
 - REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 - CHAIN DOWN HOLES MUST BE PLUGGED AFTER INSTALLATION. PLUGS ARE PROVIDED AND ARE LOCATED IN THE LOOSE VENTS/FUEL FILL KIT.
 - STUB-UPS BASE TANK REQUIRES ALL STUB-UPS TO BE IN REAR TANK STUB-UP AREA. UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED FOR EASY REMOVAL. FOR INFORMATION HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION HAS BEEN DONE TO FACILITATE TESTING OF THE TANK PRIOR TO START UP. SEE THE FUEL TANK FIELD TESTING PROCEDURE SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
 - TRANSFORMER SWITCH/COMMUNICATION CONDUITS - COMMUNICATIONS AND 2-WIRE CABLE MUST BE RUN IN CONDUIT WITH AC WIRING.
 - CONTROL WIRES TO BE SHIELDED AND TRUSTED PART FROM MAX LENGTH.



ANSCO & ASSOCIATES, LLC



AT&T SITE ID:
GA6182

FA LOCATION CODE:
15173580

REV	DATE	DESCRIPTION
A	04/06/21	ISSUED FOR REVIEW
0	04/13/21	ISSUED FOR CONSTRUCTION

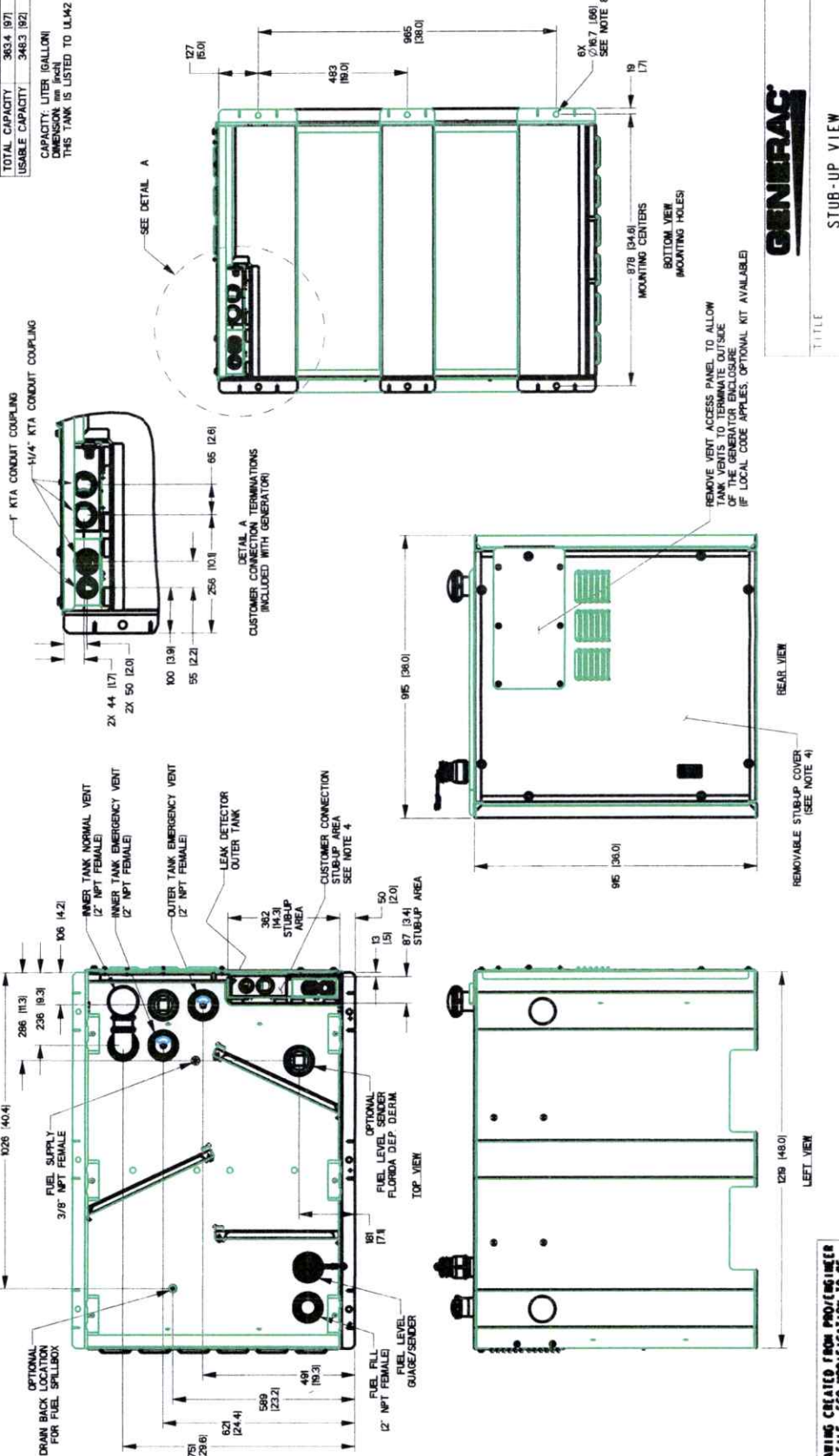
DESIGNED SDM
DRAWN SDM
CHECKED PNM
JOB# 20ANATN09-0028

GENERATOR SPECIFICATIONS

E-9

FOR REFERENCE ONLY

FUEL TANK	
TOTAL CAPACITY	363.4 (97)
USABLE CAPACITY	348.3 (92)
CAPACITY: LITER (GALLON)	
DIMENSION: mm (in)	
THIS TANK IS LISTED TO UL142	



TITLE
INSTALL, STUB-UP VIEW
INSTALL, D2.5L 20 KW AC, TELECOM

ISSUE DATE	SIZE	CAGE NO	DWG NO	REV
	B	N/A	10000013144	1

SCALE: 0.083 (1/12) INT-KG
SHEET 2 of 2

ELECTRONICALLY APPROVED
JACQUE WADGILL

INSTALLATION DRAWING

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.



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ASSOCIATES, LLC



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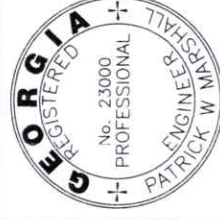
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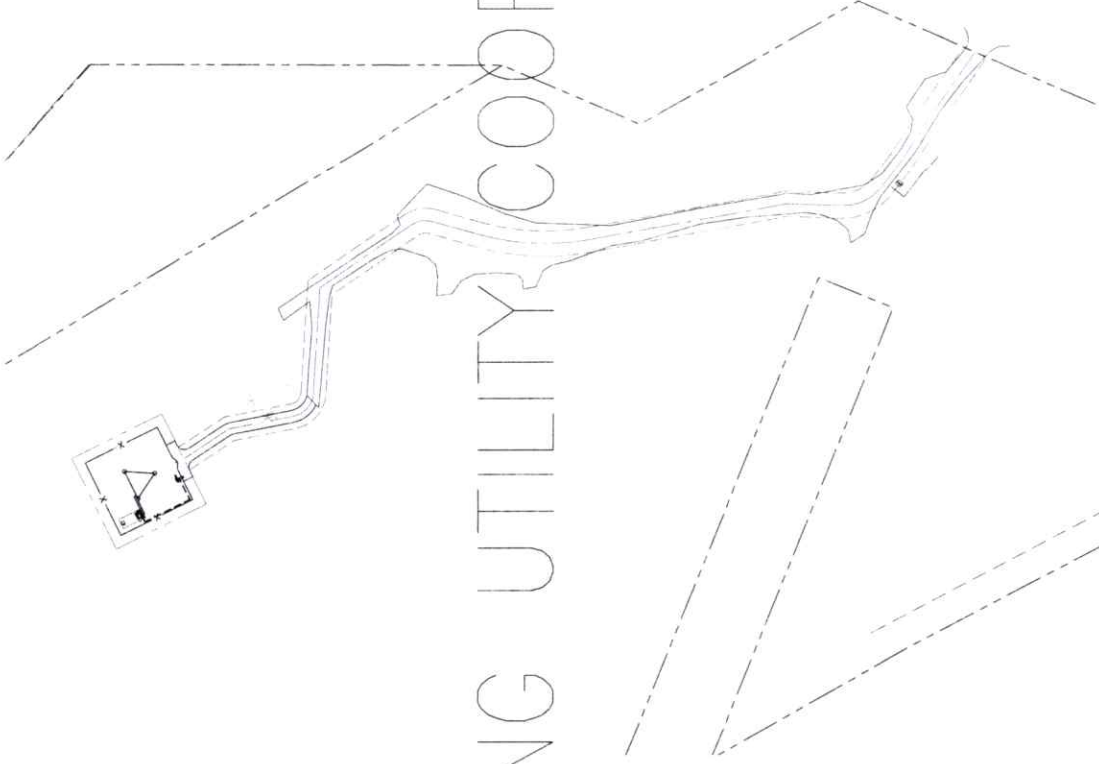
DESIGNED SDM
DRAWN SDM
CHECKED FWM
JOB# 2005ANATN09-0028

**OVERALL
ELECTRICAL
SITE PLAN**

NOT USED



PENDING UTILITY COORDINATION



OVERALL ELECTRICAL SITE PLAN
Scale: 1" = 60'-0" (FULL SIZE)
1" = 120'-0" (1/4"=1')

