

SITE DEVELOPER/APPLICANT:



STATE OF FLORIDA, DEPT. OF MGMT SVCS SITE NAME: LAKE CITY
STATE OF FLORIDA, DEPT. OF MGMT SVCS SITE NUMBER: X808
TOWER UPGRADE - 2 WAY RADIO

SITE ADDRESS:
3501 N US HWY 441
LAKE CITY, FL 32055
(COUNTY COLUMBIA)



LOCATION MAP



4050 ESPLANADE WAY
TALLAHASSEE, FL 32399
OFFICE: 850-488-2786



TOWER ENGINEERING PROFESSIONALS
4710 E ELWOOD ST, STE 9
PHOENIX, AZ 85040
OFFICE: (480) 285-0036
www.tepgroup.net
FL COA#: 31011

STATE OF FL, DMS
SITE NUMBER: X808

ATC SITE NUMBER: 2543

STATE OF FL, DMS
SITE NAME: LAKE CITY

3501 N US HWY 441
LAKE CITY, FL 32055
(COUNTY COLUMBIA)

EXISTING 330'
GUYED TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	11-02-23	SKK	PRELIMINARY	CCJ
B	03-01-24	RMJ	90% CONSTRUCTION	CCJ
O	03-06-24	SRZ	90% CONSTRUCTION	CCJ

DIGITAL/ELECTRONIC SEAL:
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SEAL:



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SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

0

TEP #:

334636.894230

*LATITUDE N 30° 14' 17.50"
*LONGITUDE W 82° 38' 12.50"

*GROUND ELEV. (AMSL) = 148±

*INFO PROVIDED BY AMERICAN TOWER CORPORATION

TOWER COORDINATES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

1. 2023 FLORIDA BUILDING CODE (8TH EDITION)	4. 2020 NATIONAL ELECTRICAL CODE
2. ANS/TIA-222-H	5. CITY/COUNTY ORDINANCES
3. 8TH EDITION FLORIDA FIRE PREVENTION CODE	

CODE COMPLIANCE

TOWER WORK:
• INSTALL (2) SE414-SWBPALDF (D00-PIP) ANTENNAS
• INSTALL (1) CP00732 TTA
• EXISTING (4) PAD6-65AC MICROWAVE DISHES
• EXISTING (1) 1/2" COAX CABLE
• EXISTING (1) 7/8" COAX CABLE
• EXISTING (2) 1-5/8" COAX CABLES
• EXISTING (4) EW65 CABLES
• EXISTING (1) 12' OMNI ANTENNA
• RESERVED (1) SE414-SWBPALDF (D00-PIP) ANTENNA

SCOPE OF WORK

STATE OF FLORIDA, DEPT. OF MGMT SVCS SITE NAME: X808/LAKE CITY

PROJECT INITIATIVE: SLERS P25 UPGRADE

SITE ADDRESS: 3501 N US HWY 441
LAKE CITY, FL 32055
(COUNTY COLUMBIA)

TOWER TYPE: 330' GUYED TOWER

JURISDICTION: COLUMBIA COUNTY

CURRENT ZONING: UNKNOWN

PARCEL ID: 083S1704910002

PROJECT INFORMATION

TOWER OWNER:
NAME: AMERICAN TOWER CORPORATION
ADDRESS: 10 PRESIDENTIAL WAY
CITY, STATE, ZIP: WOBURN, MA 01801
PHONE: (877) 486-9377

SITE APPLICANT:
NAME: SBA COMMUNICATIONS CORPORATION
ADDRESS: 8051 CONGRESS AVE
CITY, STATE, ZIP: BOCA RATON, FL 33487
PHONE: (800) 487-7483

CIVIL ENGINEER:
NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 325 TRYON RD
CITY, STATE, ZIP: RALEIGH, NC 27603
CONTACT: JOSH CARDEN, P.E.
PHONE: (919) 661-6351

PROPERTY OWNER:
NAME: DAVID H GOOLSBY JR
ADDRESS: 9198 SW CR 249
CITY, STATE, ZIP: JASPER, FL 32052

SHEET:	DESCRIPTION:	REV
T-1	TITLE SHEET	0
T-2	GENERAL NOTES	0
C-1	OVERALL SITE PLAN	0
C-2	COMPOUND LAYOUT	0
C-3	TOWER ELEVATIONS	0
G-1	GROUNDING DETAILS I	0
G-2	GROUNDING DETAILS II	0

CONTACT INFORMATION

SHEET INDEX

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

GENERAL NOTES

FROM STATE OF FLORIDA, DEPT. OF MGMT SVCS SITE NAME TALLAHASSEE OFFICE:

GET ON I-10 E FROM US-319 N/CAPITAL CIR SE AND US-90 E/MAHAN DR. HEAD NORTH TOWARD ESPLANADE WAY. TURN RIGHT TOWARD ESPLANADE WAY. TURN LEFT ONTO ESPLANADE WAY. TURN LEFT ONTO MERCHANTS ROW BLVD. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO US-319 N/CAPITAL CIR SE. TURN RIGHT ONTO US-90 E/MAHAN DR. USE THE RIGHT LANE TO MERGE WITH I-10 E VIA THE RAMP TO LAKE CITY. FOLLOW I-10 E TO US-441 S IN COLUMBIA COUNTY. TAKE EXIT 303 FROM I-10 E. MERGE WITH I-10 E. TAKE EXIT 303 FOR US-441 TOWARD LAKECITY/FARGO. CONTINUE ON US-441 S TO YOUR DESTINATION. TURN RIGHT ONTO US-441 S (SIGNS FOR LAKE CITY/COMMUNITY COLLEGE). TURN LEFT.

DIRECTIONS PROVIDED FROM GOOGLE MAPS

DRIVING DIRECTIONS

PROPERTY OWNER	DATE
RF ENGINEER	DATE
CONSTRUCTION	DATE
SITE AQUISITION	DATE
ZONING	DATE
NETWORK	DATE
OPERATIONS	DATE
CONTRACTOR	DATE

APPROVALS



VICINITY MAP



VULT =118 MPH (ULTIMATE 3 SECOND GUST)

VASD = 30 MPH (NOMINAL 3 SECOND GUST)

RISK CATEGORY = II

EXPOSURE = C

IMPORTANCE FACTOR = 1.0

DESIGN CRITERIA

GENERAL NOTES:

- ALL REFERENCES TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED STATE OF FLORIDA DEPARTMENT OF MANAGEMENT SERVICES, OR ITS DESIGNATED REPRESENTATIVE.
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE, OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF FLORIDA.
- STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-G, FOR A 30 MPH 3-SECOND GUST WIND LOAD. THIS CONFORMS TO THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (8TH EDITION).
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE (8TH EDITION).
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THIS PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIAL ORDERING, FABRICATION, OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
- BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY, OR CITY) ENGINEER.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION.
- ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

STRUCTURAL STEEL NOTES:

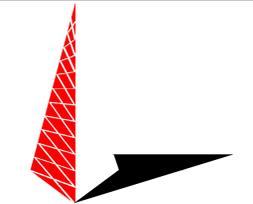
- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LRFD, 15TH EDITION.
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - STRUCTURAL STEEL, ASTM DESIGNATION A36.
 - ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS.
 - ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
 - ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LRFD, 15TH EDITION.
- HOLES SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE ENGINEER.
- HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING> ASTM A123, ASTM A153/A153M OR ASTM A653M, G90, AS APPLICABLE.
- REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTE; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
- A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," DATED JUNE 30, 2004.
- FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.
- DO NOT OVER TORQUE ASSEMBLY BOLTS. GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS MAY ACT AS A LUBRICANT, THUS OVER TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.
- PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1-2015 STRUCTURAL WELDING CODE - STEEL.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90 °F AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
 - #4 BARS AND SMALLER 40 ksi
 - #5 BARS AND LARGER 60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 BARS AND LARGER 2"
 - #5 BARS AND SMALLER 1-1/2"
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - SLAB AND WALLS 3/4"
 - BEAMS AND COLUMNS 1-1/2"
- A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.



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**STATE OF FL, DMS
SITE NUMBER: X808**

ATC SITE NUMBER: 2543

**STATE OF FL, DMS
SITE NAME: LAKE CITY**

**3501 N US HWY 441
LAKE CITY, FL 32055
(COUNTY COLUMBIA)**

**EXISTING 330'
GUYED TOWER**

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	11-02-23	SKK	PRELIMINARY	CCJ
B	03-01-24	RMJ	90% CONSTRUCTION	CCJ
O	03-06-24	SRZ	90% CONSTRUCTION	CCJ

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SEAL:



03-06-24

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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

T-2

REVISION:

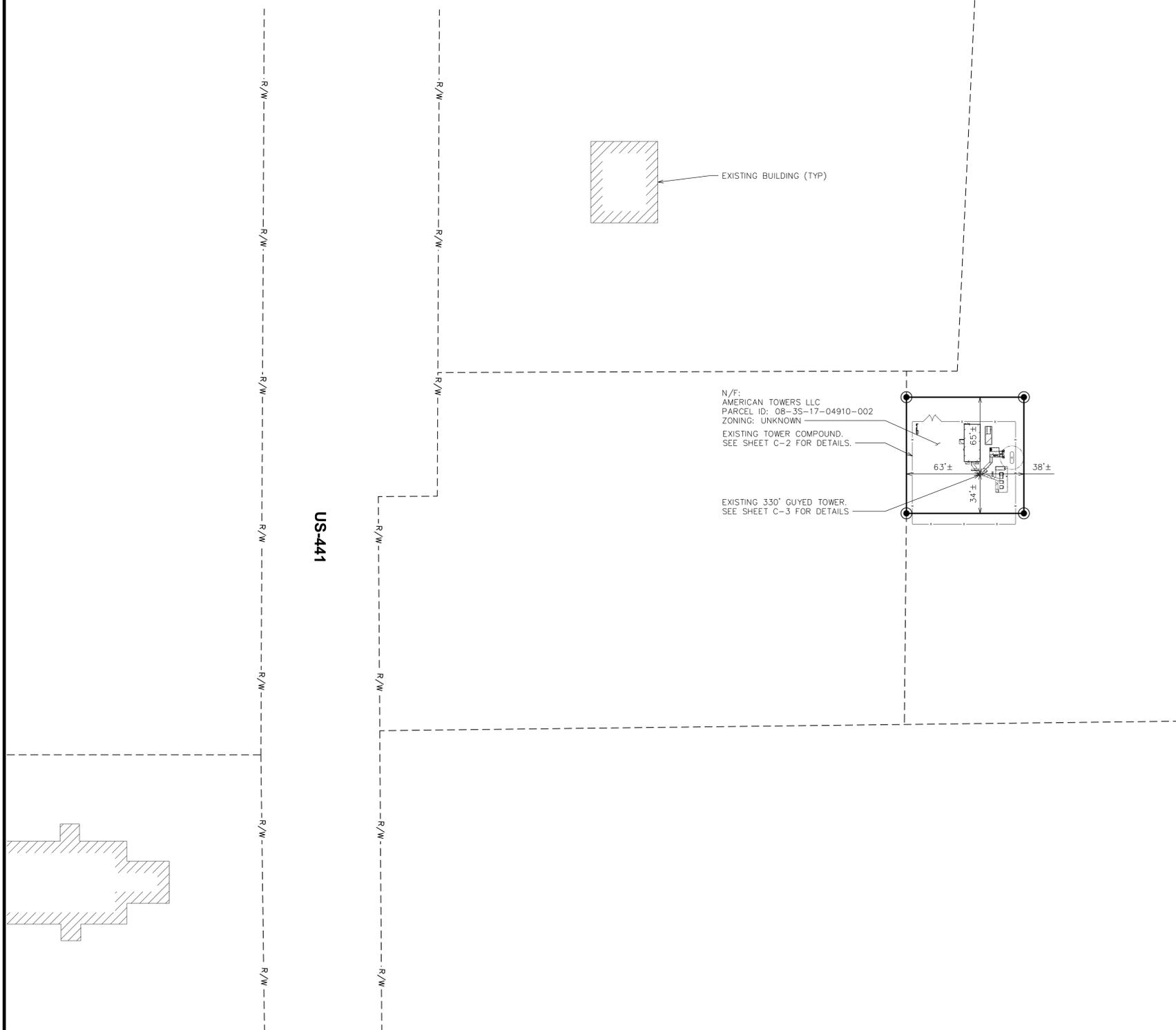
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TEP #:

334636.894230

NOTES:

1. SITE PLAN SHOWN BELOW TAKEN FROM INFORMATION PROVIDED BY COLUMBIA COUNTY, FL. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
2. THE TOWER IS LOCATED IN ZONE "A," AREAS DETERMINED TO BE INSIDE THE 0.2% ANNUAL CHANGE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #12023C0285D, DATED NOVEMBER 02, 2018. NO CHANGES ARE PROPOSED TO THE FINISHED FLOOR ELEVATION OF THE EXISTING SHELTER OR OTHER SUPPORTING STRUCTURES. ALL PROPOSED ALTERATIONS ARE TO BE INSTALLED ON OR INSIDE OF EXISTING PREVIOUSLY PERMITTED AND APPROVED STRUCTURES. TEP ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DAMAGES, LOSS OF REVENUE, INJURY, OR LOSS OF LIFE THAT MIGHT OCCUR AS A RESULT OF PROPOSED ALTERATIONS WITHIN THE FLOODPLAIN.

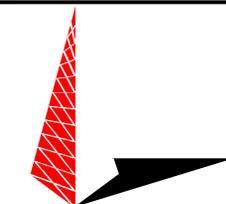


N/F:
 AMERICAN TOWERS LLC
 PARCEL ID: 08-35-17-04910-002
 ZONING: UNKNOWN
 EXISTING TOWER COMPOUND.
 SEE SHEET C-2 FOR DETAILS.
 EXISTING 330' GUYED TOWER.
 SEE SHEET C-3 FOR DETAILS.

LEGEND	
———	PARENT PROPERTY LINE
- - - - -	ADJ. PROPERTY LINE
⊙	EXIST. UTILITY POLE
⊞	EXIST. TELCO PEDESTAL
●	PROPERTY CORNER
///	EDGE OF PAVEMENT
— OHW —	OVERHEAD WIRE
- - R/W - - -	RIGHT-OF-WAY
— X —	CHAIN LINK FENCE
~~~~~	EXISTING TREE LINE



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**OVERALL SITE PLAN**

**SHEET NUMBER:**

**C-1**

**REVISION:**

**0**

**TEP #:**

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**OVERALL SITE PLAN**

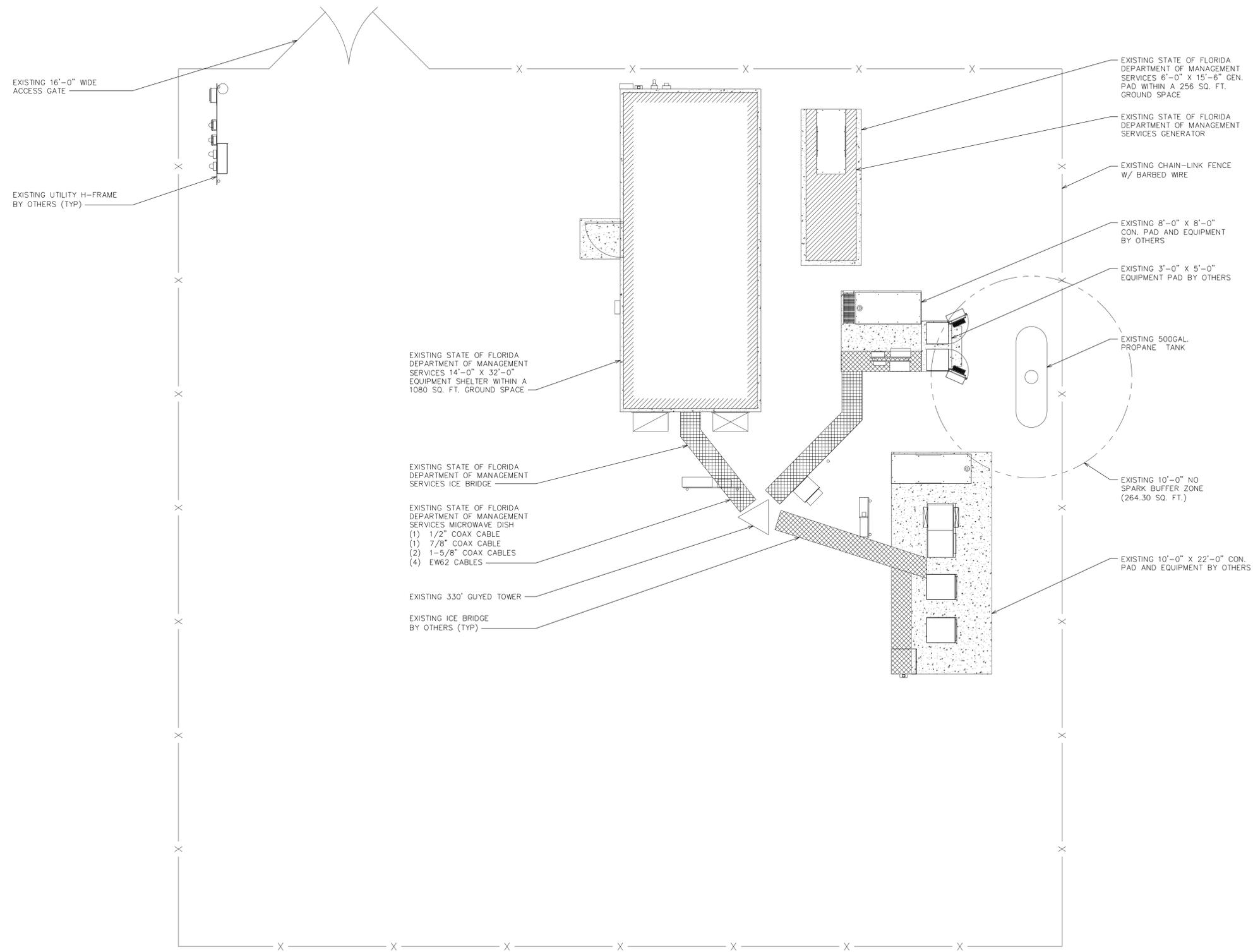
SCALE: 1" = 50' (24x36)

SCALE: 1" = 100' (11x17)

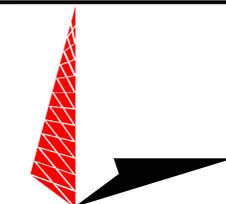


**NOTES:**

1. COMPOUND DETAIL SHOWN BELOW WAS PRODUCED FROM INFORMATION PROVIDED BY SBA COMMUNICATIONS.
2. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION AS INDICATED ON COMPOUND DETAIL. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DISCREPANCIES.



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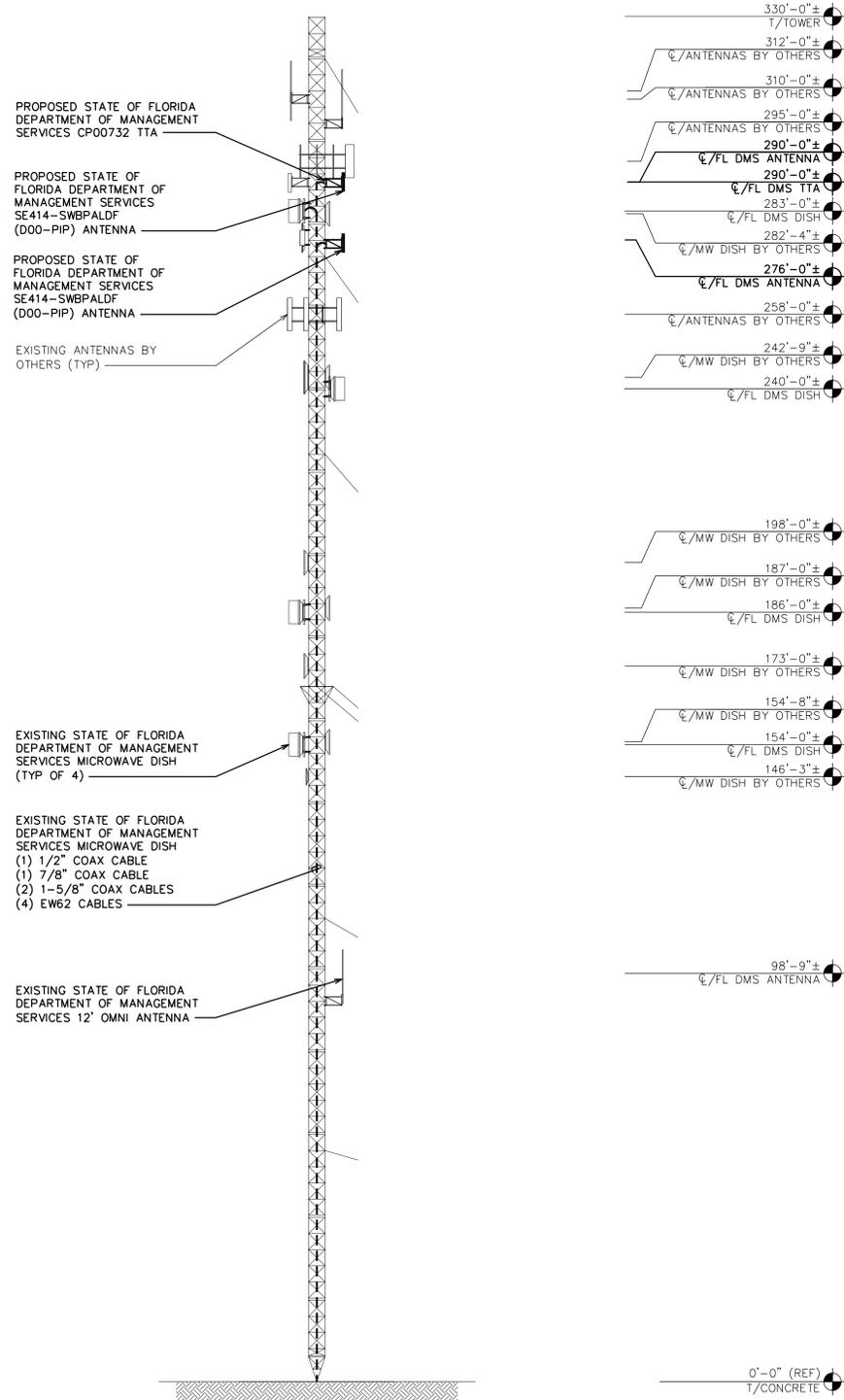
SCALE: 3/16" = 1'-0" (24x36)

SCALE: 3/32" = 1'-0" (11x17)



**NOTES:**

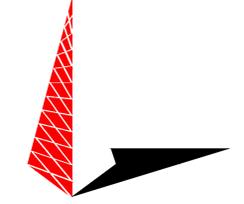
1. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
2. EXISTING TOWER HAS SUFFICIENT CAPACITY FOR THE PROPOSED LOADING. SEE TOWER STRUCTURAL ANALYSIS REPORT BY AMERICAN TOWER CORPORATION DATED OCTOBER 5, 2023 FOR DETAILS.



- 330'-0"±  
T/TOWER
- 312'-0"±  
☉/ANTENNAS BY OTHERS
- 310'-0"±  
☉/ANTENNAS BY OTHERS
- 295'-0"±  
☉/ANTENNAS BY OTHERS
- 290'-0"±  
☉/FL DMS ANTENNA
- 290'-0"±  
☉/FL DMS TTA
- 283'-0"±  
☉/FL DMS DISH
- 282'-4"±  
☉/MW DISH BY OTHERS
- 276'-0"±  
☉/FL DMS ANTENNA
- 258'-0"±  
☉/ANTENNAS BY OTHERS
- 242'-9"±  
☉/MW DISH BY OTHERS
- 240'-0"±  
☉/FL DMS DISH
- 198'-0"±  
☉/MW DISH BY OTHERS
- 187'-0"±  
☉/MW DISH BY OTHERS
- 186'-0"±  
☉/FL DMS DISH
- 173'-0"±  
☉/MW DISH BY OTHERS
- 154'-8"±  
☉/MW DISH BY OTHERS
- 154'-0"±  
☉/FL DMS DISH
- 146'-3"±  
☉/MW DISH BY OTHERS
- 98'-9"±  
☉/FL DMS ANTENNA
- 0'-0" (REF)  
T/CONCRETE



4050 ESPLANADE WAY  
TALLAHASSEE, FL 32399  
OFFICE: 850-488-2786



**TOWER ENGINEERING PROFESSIONALS**  
4710 E ELWOOD ST, STE 9  
PHOENIX, AZ 85040  
OFFICE: (480) 285-0036  
www.tepgroup.net  
FL COA#: 31011

**STATE OF FL, DMS  
SITE NUMBER: X808**

**ATC SITE NUMBER: 2543**

**STATE OF FL, DMS  
SITE NAME: LAKE CITY**

**3501 N US HWY 441  
LAKE CITY, FL 32055  
(COUNTY COLUMBIA)**

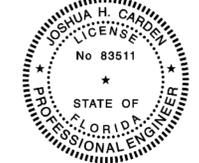
**EXISTING 330'  
GUYED TOWER**

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	QA
A	11-02-23	SKK	PRELIMINARY	CCJ
B	03-01-24	RMJ	90% CONSTRUCTION	CCJ
O	03-06-24	SRZ	90% CONSTRUCTION	CCJ

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**SEAL:**



03-06-24

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**SHEET TITLE:  
TOWER ELEVATIONS**

**SHEET NUMBER: C-3**      **REVISION: 0**

**PROPOSED TOWER ELEVATION**

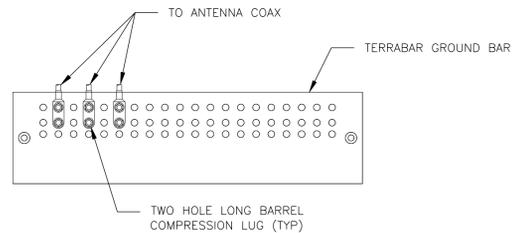
SCALE: 1" = 20' (24x36)  
SCALE: 1" = 40' (11x17)



**TEP #:** 334636.894230

**NOTES:**

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

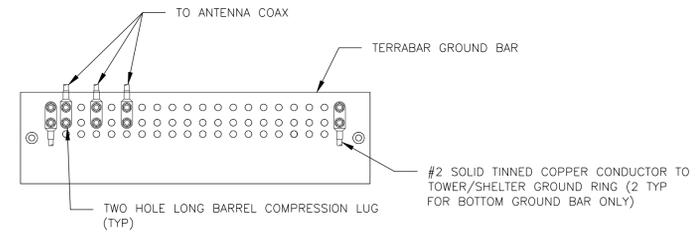


**ANTENNA GROUND BAR DETAIL**

SCALE: N.T.S

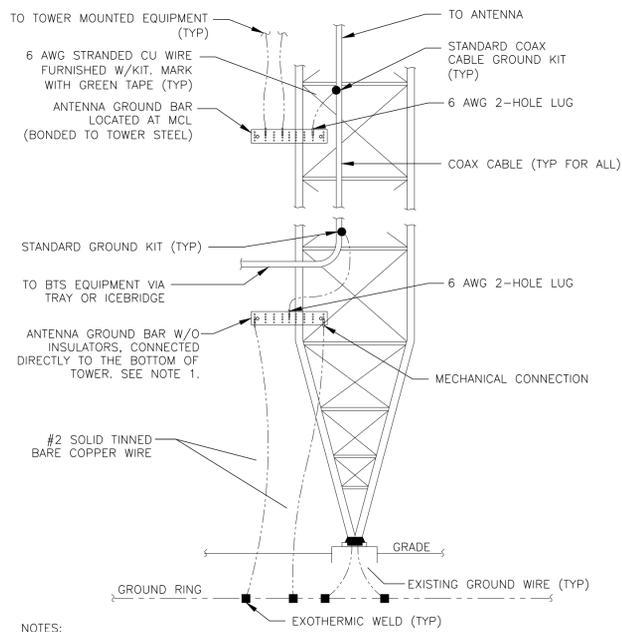
**NOTES:**

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. INSTALL GROUND BARS AT 75 FT. INTERVAL MAXIMUM.
4. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.



**TOWER GROUND BAR DETAIL**

SCALE: N.T.S

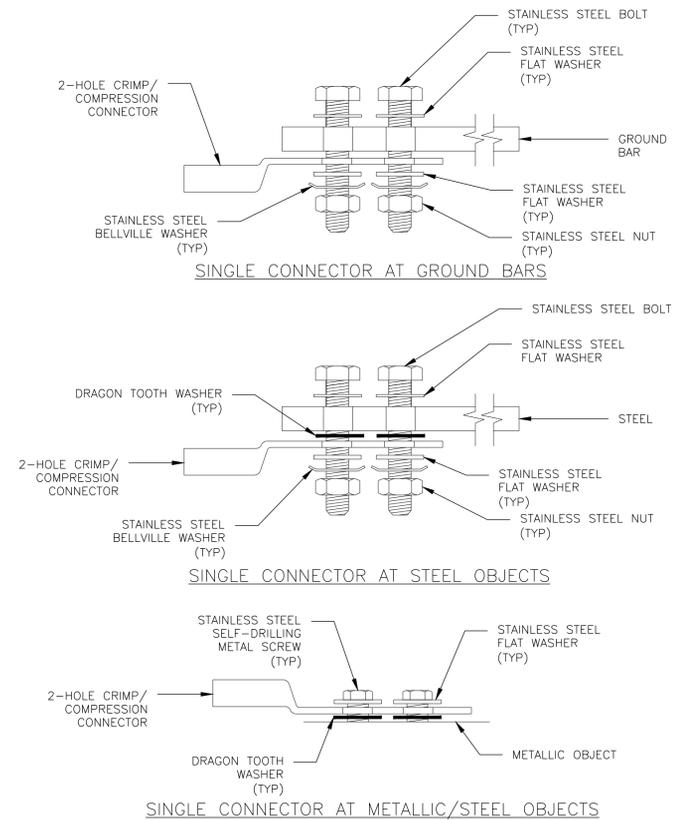


**NOTES:**

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222 AND NFPA 780. FOR INSTALLATIONS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.

**TYPICAL ANTENNA CABLE GROUNDING**

SCALE: N.T.S



**HARDWARE DETAIL FOR EXTERIOR CONNECTIONS**

SCALE: N.T.S



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TALLAHASSEE, FL 32399  
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**STATE OF FL, DMS  
SITE NUMBER: X808**

**ATC SITE NUMBER: 2543**

**STATE OF FL, DMS  
SITE NAME: LAKE CITY**

**3501 N US HWY 441  
LAKE CITY, FL 32055  
(COUNTY COLUMBIA)**

**EXISTING 330'  
GUYED TOWER**

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	QA
A	11-02-23	SKK	PRELIMINARY	CCJ
B	03-01-24	RMJ	90% CONSTRUCTION	CCJ
O	03-06-24	SRZ	90% CONSTRUCTION	CCJ

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**SHEET TITLE:**

**GROUNDING DETAILS I**

**SHEET NUMBER:**

**G-1**

**REVISION:**

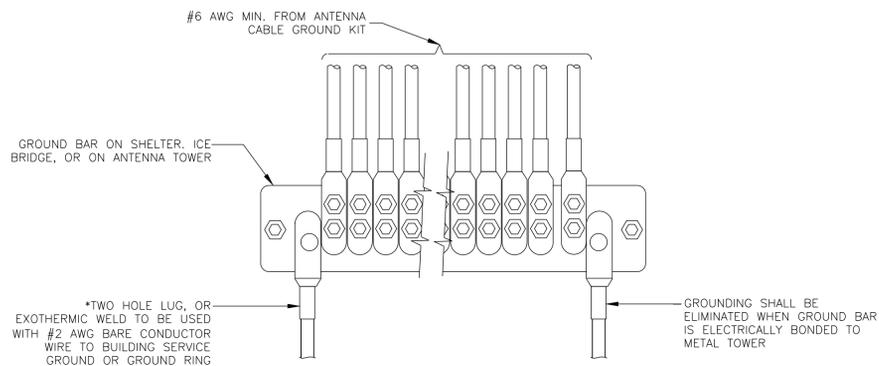
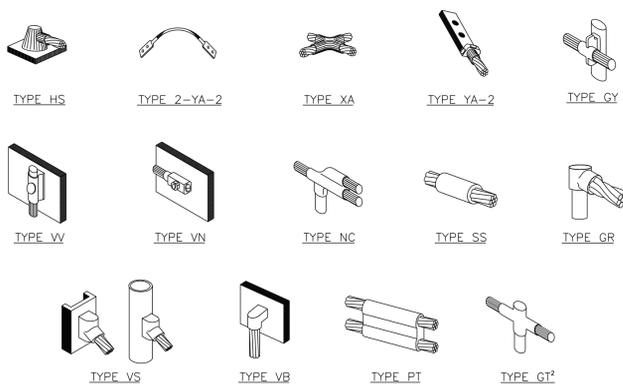
**0**

**TEP #:**

334636.894230

**NOTE:**

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

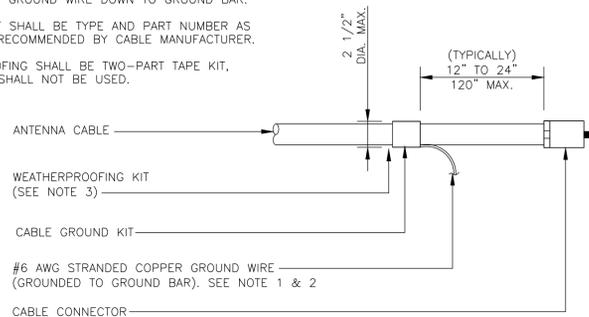


**GROUNDWIRE INSTALLATION**

SCALE: N.T.S

**NOTES:**

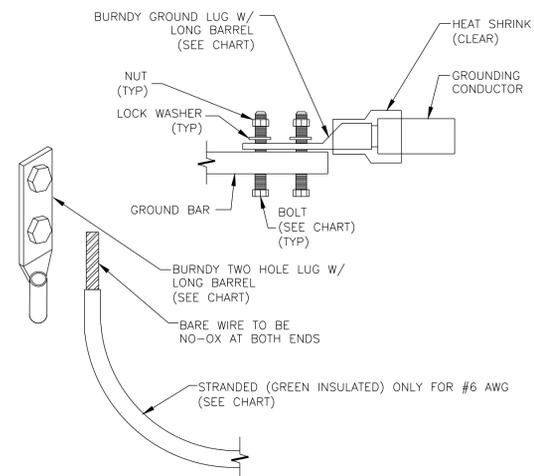
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.



**NOTES:**

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT

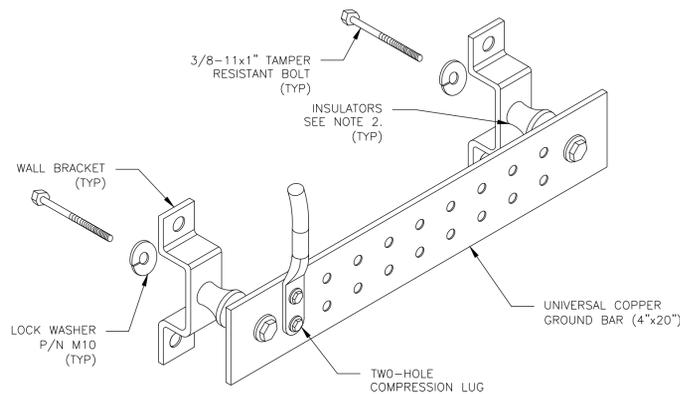


**CADWELD GROUNDING CONNECTIONS**

SCALE: N.T.S

**NOTES:**

1. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.



**GROUND BAR DETAIL**

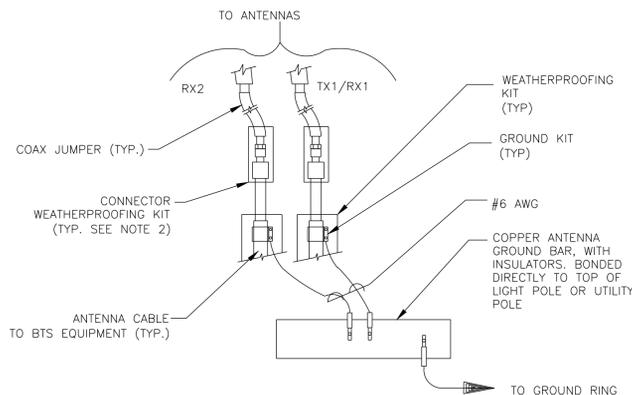
SCALE: N.T.S

**CABLE GROUND KIT CONNECTION**

SCALE: N.T.S

**NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

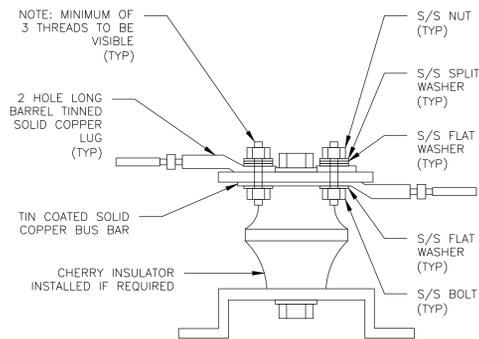


**GROUND CABLE CONNECTION**

SCALE: N.T.S

**MECHANICAL LUG CONNECTION**

SCALE: N.T.S

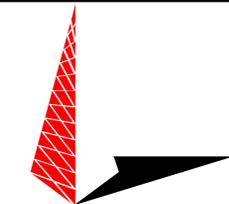


**LUG DETAIL**

SCALE: N.T.S



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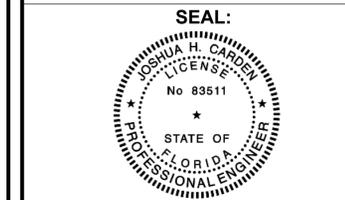
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**SHEET TITLE:  
GROUNDING DETAILS II**

**SHEET NUMBER: G-2**      **REVISION: 0**

**TEP #: 334636.894230**