



**AT&T Wireless Facility  
Zoning Staff Report  
for  
Planning, Zoning and Design Board**

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**PROJECT NAME:** AT&T Wireless Facility 3231 Coconut Road

**CASE TYPE:** Special Exception

**CASE NUMBER:** SEZ2020-E001

**PLANNING, ZONING AND  
DESIGN BOARD MEETING:** November 8, 2022

**SUMMARY OF REQUEST**

Special Exception in the *Commercial Special Office (CS) zoning district* to allow a 100-foot tall Wireless Telecommunication Facility on the Elks Club property at 3231 Coconut Road.

The applicant revised the application on April 12, 2022 lowering the height of the proposed Wireless Telecommunication Facility from 149 feet to 100 feet and withdrawing the variance request.

**STAFF RECOMMENDATION**

Staff recommends approval with conditions that the tower either be camouflaged at 100 feet, or reduced to 75 feet in height. (See Attachment C.)

The Planning, Zoning and Design Board will make a decision on this request.

**GENERAL INFORMATION**

Owner

Bonita Springs Elks Lodge #2753, Benevolent and Protective Order of Elks of the United States of America, Inc.

Applicant

New Cingular Wireless PCS, LLC d/b/a AT&T

Authorized Agent

Baker Donelson, Andy Rotenstreich and Mary Palmer

Location

West of US 41 at 3231 Coconut Road

STRAP Number

09-47-25-E4-U1869.1993

Size of Property

4.24 acres with a ±4,900 square foot lease area

Surrounding Zoning

- North Coconut Road, then multifamily residences within Coconut Shores Condominiums - RPD
- East 100-foot FPL Easement, then Vacant Land – Pelican Landing CPD and Tides at Pelican Landing Condominiums - RPD
- South Educational Pathways Academy Private School – Commercial Special Office (CS), then North Commons Drive, then single family residences within Pelican Landing - RPD
- West North Commons Drive, then single family residences within Pelican Landing - RPD

Zoning

Commercial Special Office District (CS)

Comprehensive Plan Land Use Category

Village Neighborhood 2

Project History

Lee County Resolution Z-93-049 rezoned the subject site to CS-2, approved a Special Exception for a Fraternal Club, and a special permit for Consumption on Premises.

Public Information Meeting

A public information meeting was held by the Planning, Zoning and Design Board on July 12, 2022. The applicant provided a summary and response to the issues. (See Attachment F.)

**STAFF ANALYSIS**

Request

Special Exception for a Wireless Telecommunication Facility for the 99-foot monopole with a 1-foot lightning arrestor for a total height of 100 feet.

Project Description

The applicant requests an antenna supporting structure (monopole) 100 feet high to provide wireless cellular service for AT&T. The site currently consists of a 14,000-square foot Elks Club Lodge with related parking. The ±4,900-square foot lease area is proposed between the Lodge and Educational Pathways Academy to the south. The facility will include the monopole with antennas, a 20 x 15-foot area for a generator, and equipment shelter for each antenna array, all

of which will be enclosed by an eight-foot wooden fence surrounded by a ten-foot-wide landscape buffer. Additional equipment areas are proposed within the lease area for collocation purposes. Ground lighting is existing, and the applicant has stated that tower lighting is not proposed and not required.

According to the applicant, the facility is necessary to improve coverage and capacity due to increased wireless congestion. Collocation space will be made available on the monopole for two other providers. Two future lease areas, each 20 x 15 feet, are proposed as equipment areas for the additional providers.

According to the application materials, the monopole has been designed to withstand winds up to 160 miles per hour. (See Attachment G.) LDC Section 4-143G.1. requires that the monopole be located a distance equal to the overall height from all lot lines of the property on which it is proposed which is 100 feet. The facility does meet this setback requirement.

#### Height Details, Photo Simulation, and Balloon Study

Documentation provided by the applicant shows the 100-foot monopole (99-foot pole, topped with a 12-inch lightning rod) in photo simulations from numerous points in the surrounding area. (See Attachment D.)

The site is located in an area adjacent to the Pelican Landing development which includes residential units to the west, and commercial and residential uses to the east. A private school is located to the south.

A Balloon Study was held on August 2. See Attachment E for photos taken by staff. These photos clearly show that the tower will be visible to the residences in Pelican Landing but is now limited to the immediate neighbors by the lowering of the tower from 149 feet to 100 feet.

#### Transportation Analysis

Access to the site is through the existing driveway for the Elks Club from Coconut Road which is the subject of a 30-foot access easement, and the facility is proposed to be located southeast of the Lodge. According to the applicant this is an unmanned facility with maintenance occurring approximately once a week.

#### Environmental Analysis

The site is in the X flood zone which is described by FEMA as an area of minimal flood hazard. The site is improved with a building and parking lot, and the facility is proposed to be located in a grassy area adjacent to the loading dock. The facility will not impact environmentally critical or sensitive areas.

#### Utilities

Power will be provided by FPL. Water and wastewater are not proposed as the facility will be unmanned. A generator will be present for use during loss of electric power to maintain service.

#### Comprehensive Plan Considerations

The site is designated in the Comprehensive Plan as Village Neighborhood 2. (See Attachment A.) This designation consists primarily of moderate density residential uses with minor or neighborhood scale commercial. Wireless facilities are not specifically discussed in the Comprehensive Plan, however compatibility between uses is a consideration to protect existing and future residential neighborhoods. For example, one of the guiding principles of the Future

Land Use Element of Estero's Comprehensive Plan is ensuring compatibility of new development, to protect the integrity of existing and future residential neighborhoods, as outlined below:

**Neighborhoods**

*Estero is a Village of neighborhoods...some large, some small, some more established, some newer. Ensuring compatibility of new development to protect the integrity of existing and future residential neighborhoods is a key to sustaining the quality of life.*

Policy FLU-1.11.2 of the Plan, Residential Development Standards, provides several factors that should be evaluated to ensure that development proposals address including whether the proposed use is compatible with adjacent uses, and other factors. One of the factors is whether the proposal contributes to the overall design, landscaping, and aesthetics that make up the community's character as a harmonious place with beauty, spaciousness, and a diversity of high quality residential and commercial development that positively contributes to the quality of life of Estero's residents. The proposed communication facility does not improve the aesthetics of the adjacent residential areas. The proposed tower location will result in the tower becoming the dominant feature for approximately two dozen single family homes in Pelican Landing as well as a couple of dozen homes in Coconut Shores and several condo buildings in the Tides at Pelican Landing.

The Housing Element provides that "preserving and building the value of established residential housing stock is a goal of most communities, but it is at the heart of the vision for the Estero community". This element further examines neighborhood compatibility by stating:

*Neighborhood Integrity and Compatibility*

*Protect the integrity of residential areas by ensuring that new developments are compatible and consistent in form and character.*

Additional policies and objectives are listed below:

**Objective HOU-1.1**

Preserve the value and character of existing neighborhoods.

**Policies**

**HOU – 1.1.3**

*New development must be compatible with existing residential uses.*

**HOU – 1.1.4**

*Protect residential neighborhoods from encroachment and detrimental impacts from other more intensive land uses and continue to enforce existing regulations that provide buffering from more intensive uses.*

The proposed tower is taller than any of the existing single family homes in the area and is a distinctly different form of development. Towers are required to be wrapped in reflective tape to increase visibility while dwelling units are not. Staff believes the proposal is not consistent with these policies as the proposal does not improve the aesthetics and character of the adjacent residential areas. Lowering the height of the proposed tower to 75 feet or camouflaging the tower would protect the aesthetics and character of the adjacent residential areas. Lowering the height would help the tower to blend in with the existing tree canopy that is visible from the homes in Pelican Landing.

Commercial Special Office District (CS) Zoning District

The property is zoned CS. (See Attachment B.) The CS Zoning District originated from Lee County's CS-2 zoning district. This category was created to allow minimal commercial office type uses in close proximity to existing residences. The category has historically contained very low intensity commercial uses with low impacts to assure compatibility with existing residences and neighborhoods. This sentiment is clearly contained in the descriptor language of this zoning district:

*The purpose of the Commercial Special Office (CS) district is to provide lands that accommodate and support suitable locations for the development of offices, and a number of other low-impact uses subject to special exception approval. The district is intended to be used to separate and buffer residential and other low- or medium-intensity uses, such as schools or parks, from higher-intensity commercial and light industrial uses.*

The proposed location is adjacent to residential areas as well as the Educational Pathways Academy private school.

During the Hearing Examiner public hearing for the rezoning of the property to the CS-2 category, the Lee County Planner testimony confirms this:

*This district is intended to be used to separate uses of more intensity, such as those proposed to the east, to uses of less intensity, such as those uses to the west. This would be a step down the impact (sic) of uses, as the more intense uses would be along the frontage of U.S. 41. This would be a less intense use adjacent to it and would act as a buffer to those less intense uses further west.*

This discussion focused on a fraternal lodge with consumption on premises. A communication tower was not considered at that time.

Land Development Code Use Specific Standards

Section 4-143 of the LDC contains additional standards for a Wireless Communication Facility. In part, this section provides that no antenna-supporting structure shall be permitted unless the applicant demonstrates that the proposed antenna cannot be accommodated on an existing building, structure, or antenna supporting structure.

The specific standards are shown below:

- Priorities for siting, including collocation and zoning districts;

The applicant has provided information that the facility location is necessary to fill a gap in coverage and capacity, and that it has considered alternatives, such as collocation on an existing cell tower, or roof mounting the antennas. The applicant claims neither alternative is possible due to the needed height and coverage area to resolve existing deficiencies.

The LDC provides a hierarchy of zoning districts for locating these facilities. Industrially zoned areas are preferred before commercial areas are evaluated. LDC Section 4-143E.4. provides that the applicant shall adequately demonstrate that siting alternatives within higher ranked districts are not reasonable or feasible. The CS zoning district should be one of the last commercially zoned areas to be considered based on the compatibility concerns of this zoning district's location adjacent to residential areas.

- Minimizing visual impact;

The Code requires that:

*Antennas shall be configured in a manner that is consistent with the character of the surrounding neighborhood and development, and shall be of a color that blends with the structure to which it is attached, so that adverse visual impacts on adjacent properties are minimized. Antenna concealment screening shall also be used, when possible.*

The antenna supporting structure is a monopole that will be constructed with concrete and reinforced steel. Colors have not been provided, but there is a requirement to tape the monopole with reflective tape every 20 feet above the surface to provide visibility for aircraft.

The proposed location is near residential development on three sides; the Tides at Pelican Landing condominiums, 365 feet to the southeast; single-family residences 385 feet to the south; and single-family residences to the west which are greater than 450 feet away. The monopole will be visible as shown in the attached photo simulations. (See Attachment E.)

The Balloon Study photographs clearly indicate the visual impact the monopole and antennas will have on the nearby residences. Village staff suggested potential camouflage of the tower to resemble a palm tree or pine tree. The applicant responded that the height and necessary foliage would make the facility more noticeable and would not allow for collocation due to appendages (branches) of the tree. Staff still believes that if this is approved at 100 feet, camouflage should be a condition of approval, to resemble a palm tree or pine tree.

- Setbacks;

The Code-required setbacks to the property line must be equal to the height of the monopole, 100 feet. The proposed site plan demonstrates a setback of 100 feet. This request demonstrates that the proposed site (leased area) is of sufficient size to meet the requirements of the Land Development Code.

- Height;

The applicant has stated that the 100-foot height is set due to engineering issues regarding signal distribution. The applicant reduced the height of the proposed tower from the original of 159 feet, to 149 feet and then to 100 feet so that it could be approved through the Special Exception process instead of through the Planned Development Process, and without a need for a variance.

Special Exception – Special Exceptions are uses that may be appropriate in a zoning district when the project is designed and conditioned to preserve public health, safety and welfare and to be compatible with adjacent uses. The subject facility will be screened at the base with an 8-foot fence and surrounded by a landscape buffer. The monopole will be visible due to 100-foot height.

Communication facilities are utilities that serve the general public and provide a necessary service but which must also be found compatible with the neighborhood. Compatibility is an issue as the proposed wireless facility is near existing residences, the closest of which is approximately 350 feet away. The monopole and antenna arrays will be visible and negatively impact surrounding residential uses as a dominating presence in an established residential neighborhood setting.

The request is subject to other standards for Wireless Communication Facilities in Section 4-143, including:

- Demonstrating that the antennas could not be collocated on an existing facility, and could not be a surface or building mounted antenna;
- Required ground camouflaging such as fencing and landscaping;
- Required authorizations from the FCC.

Staff finds that the requested Special Exception will be consistent with the goals, objectives, and policies of the Comprehensive Plan and is only compatible and will protect the aesthetics and character of the adjacent residential areas if camouflaged or lowered height as described below. The proposed 100-foot wireless communication facility cannot be adequately screened or buffered from the surrounding residential uses. The request does not minimize adverse visual impacts on adjacent lands. Staff recommends that if the Planning Zoning and Design Board wants to approve the tower at 100 feet that it be camouflaged, if no camouflage is utilized then the tower is limited to 75 feet. Complying with these proposed conditions will help to assure compatibility and protect the aesthetics and character of the adjacent residential areas.

#### Other Comments

- Federal Airways & Airspace: The FAA stated that the structure does not require Notice to the FAA.
- Lee County Mosquito Control: Mosquito Control replied that the tower must be taped with reflective sheeting starting at 20 feet and again at 20-foot intervals.
- Lee County Port Authority: Lee County Port Authority staff has reviewed this project and determined that a tall structures permit is not required.
- Bonita Springs Utilities: Access must be maintained to the 10 manhole lids that serve gravity grease interceptors.

### **FINDINGS OF FACT**

Staff has proposed the following findings of fact:

1. The Special Exception as conditioned will be consistent with the goals, objectives, and policies of the Comprehensive Plan.
2. The Special Exception as conditioned will comply with all applicable zoning district standards.
3. The Special Exception as conditioned will comply with all standards in Chapter 4: Use Specific Standards.
4. The Special Exception as conditioned will be appropriate for its location and is compatible with the general character of surrounding lands and uses permitted in the zoning district.
5. The Special Exception as conditioned will adequately screen, buffer, or otherwise minimize adverse visual impacts on adjacent lands.
6. The Special Exception as conditioned will ensure that no site lighting source shall negatively impact adjacent properties and rights-of-way.

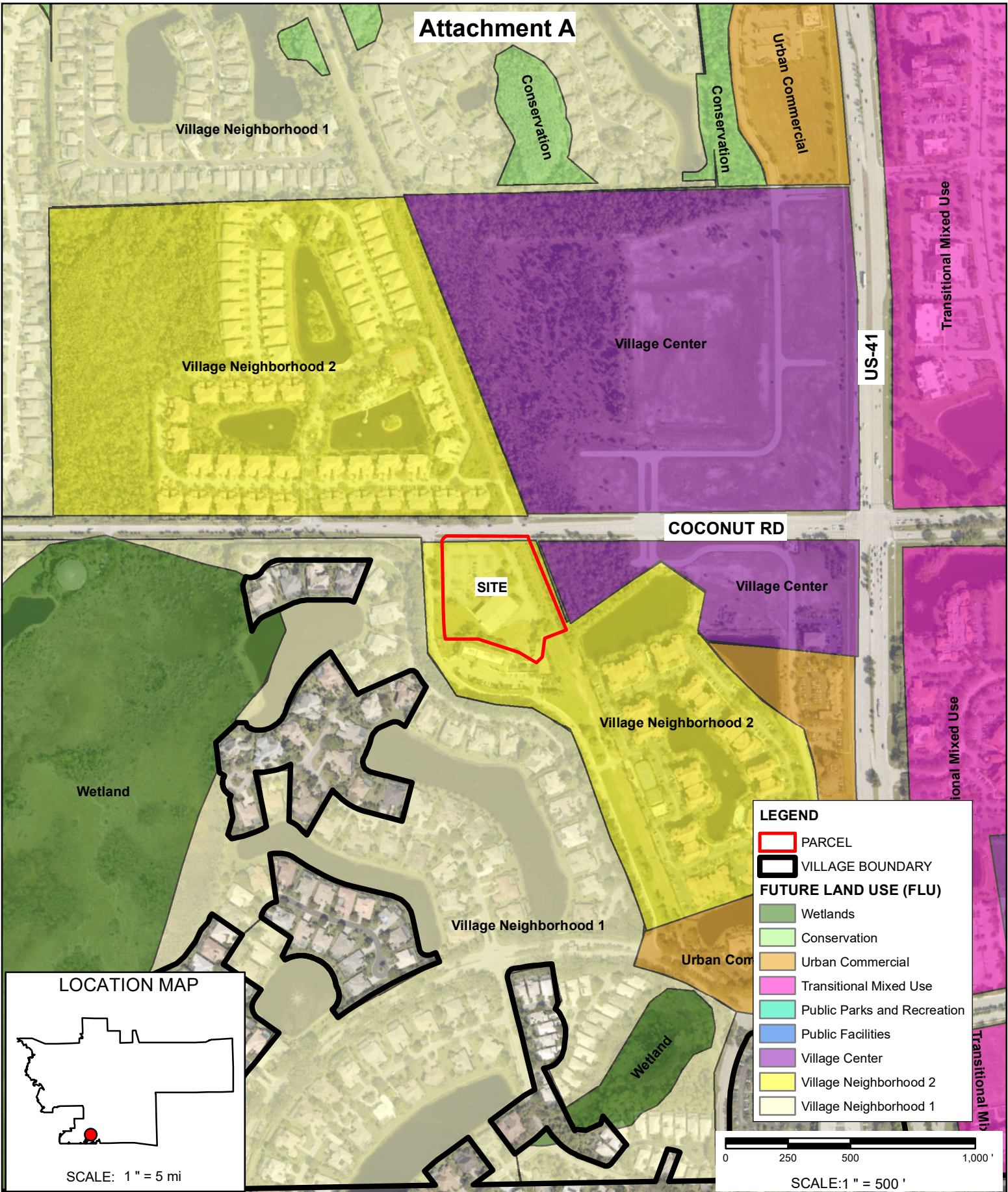
7. The Special Exception as conditioned will maintain safe and convenient ingress and egress and traffic flow onto and through the site by vehicles and pedestrians, and safe road conditions around the site.
8. The Special Exception as conditioned will avoid significant adverse odor, noise, glare, and vibration impacts on surrounding lands regarding refuse collection, service delivery, parking and loading, signs, lighting, and other site elements.
9. The Special Exception as conditioned will not have an adverse impact on land values and the ability of neighboring lands to develop uses permitted in the zoning district.
10. The Special Exception as conditioned will avoid significant deterioration of water and air resources, scenic resources, and other natural resources.
11. The Special Exception as conditioned will not overburden existing public facilities and services, including, but not limited to, streets and other transportation facilities, schools, potable water facilities, sewage disposal, storm water management, and police and fire protection facilities.
12. The Special Exception as conditioned will comply with all other relevant Village, state, and federal laws and regulations.
13. The requested Special Exception as conditioned will be consistent with the purpose of the Commercial Special (CS) Office District to separate and buffer nearby residences.

**ATTACHMENTS:**

- A. Future Land Use Map
- B. Zoning Map
- C. Proposed Conditions
- D. Applicant Photo Simulation & Balloon Study
- E. Staff Photos of Balloon Study
- F. Applicant Summary of Public Information Meeting
- G. Applicant Submittals



# Attachment A

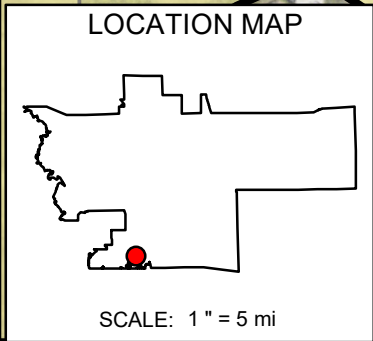
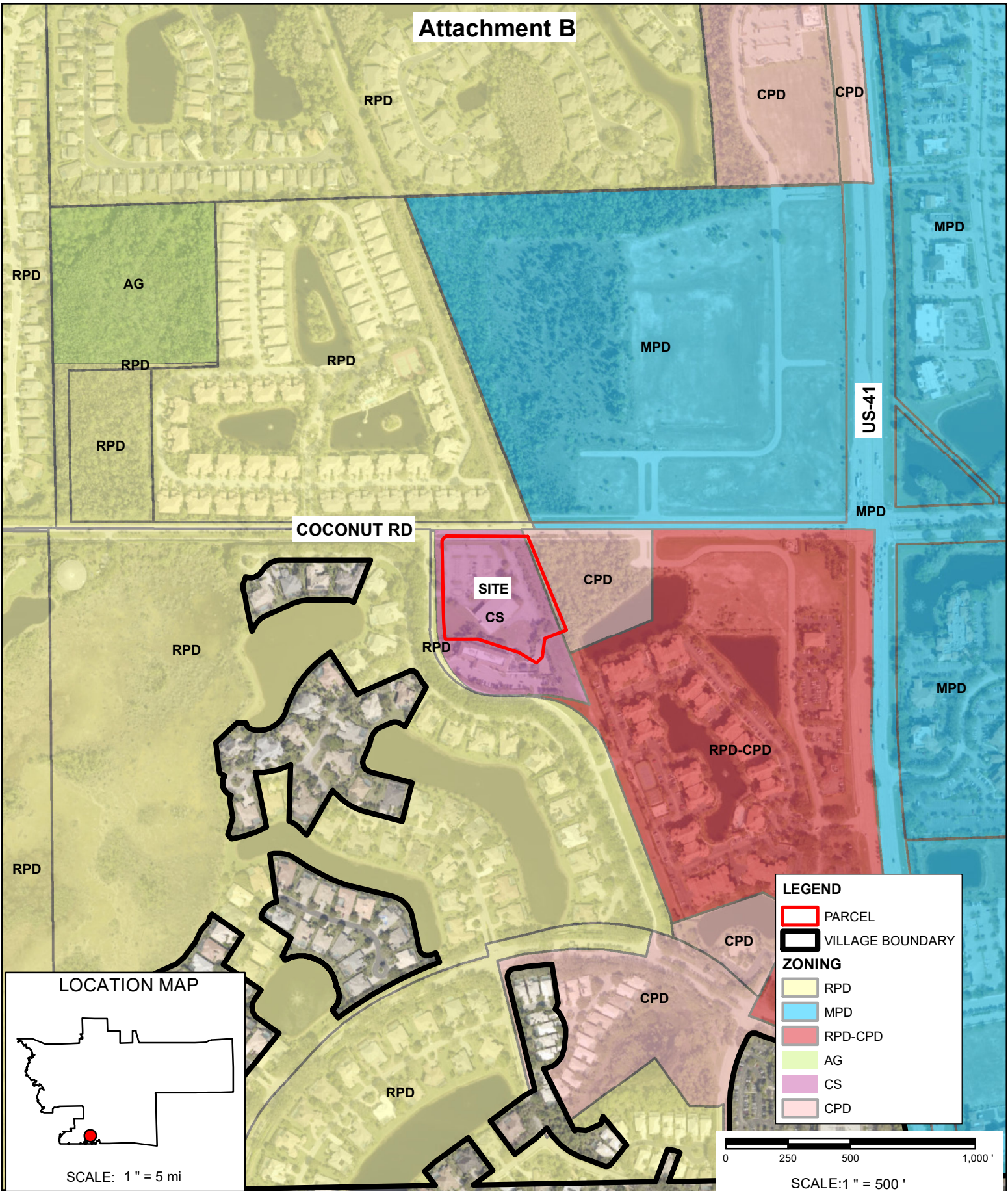


## 3231 COCONUT RD - FLU MAP

VILLAGE OF ESTERO \ FLORIDA



# Attachment B



## 3231 COCONUT RD - ZONING MAP

VILLAGE OF ESTERO \ FLORIDA



## Attachment C

### AT&T Cell Tower 3231 Coconut Road Zoning Conditions

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1. Site Plan and Height of the Tower

Development of this project is limited to a maximum of a 99-foot monopole with a 1-foot lightning rod on top for a maximum tower height of 100 feet if the tower is camouflaged. If the tower is not camouflaged, it is limited to a maximum height of 75 feet. Site plan includes three 15 foot X 20 foot Wireless Communication Ground Equipment Areas.

2. Landscape Buffer

A 10 foot Landscape Buffer will be installed around the base of the tower consistent with LDC Section 4-143F.4.C. and the submitted Landscape Plan Sheet L1 received 10/19/22.

3. Fencing

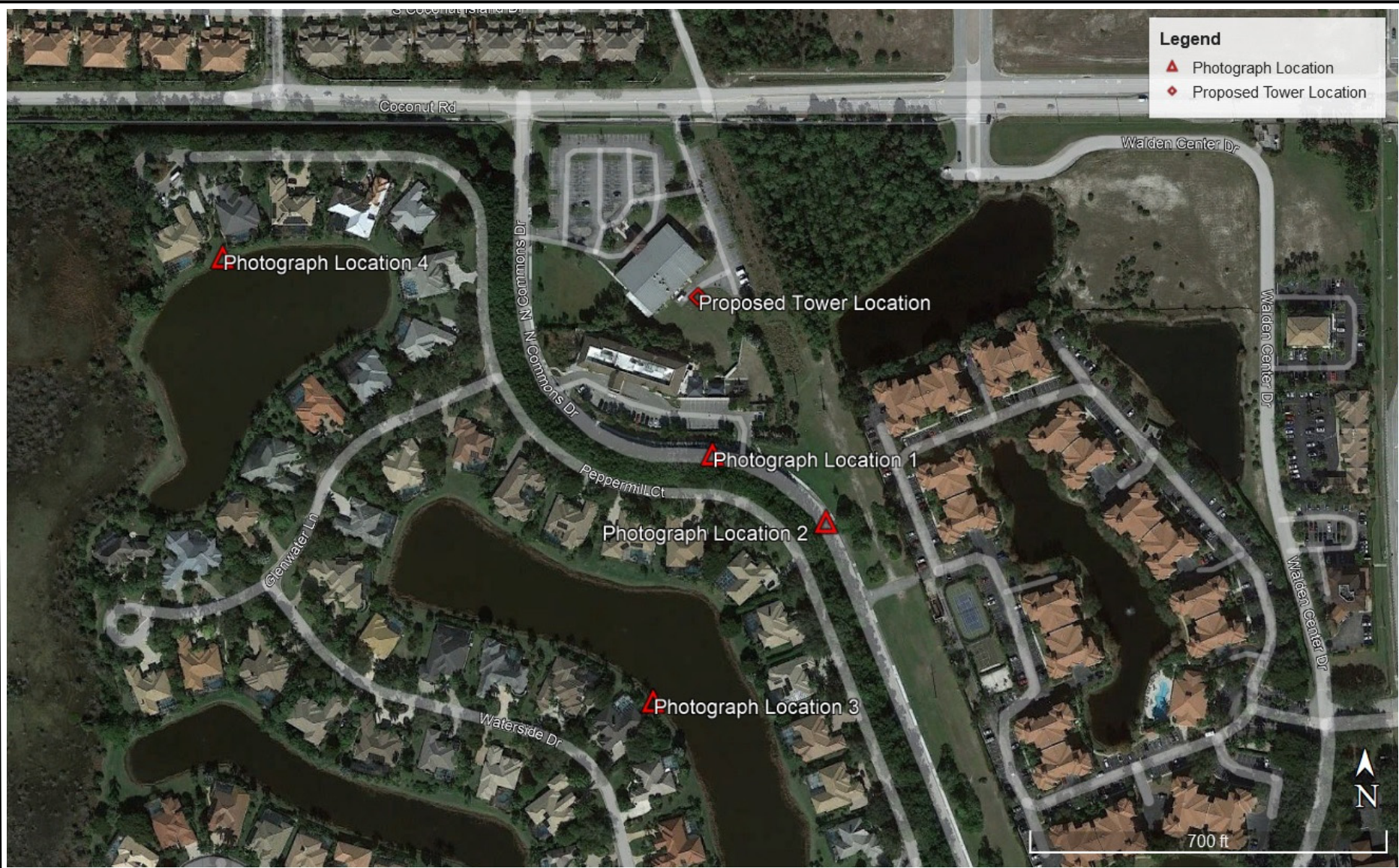
An 8-foot wooden fence will be constructed around the base of the tower inside the landscape buffer as depicted on the Tower Site Plan sheet C-12 received 10/19/22.

4. Tower Lighting

The tower will not contain any lights on the tower including the top but will be taped consistent with Land Development Code Section 4-143F.4.E.

5. Expiration

The special exception shall automatically expire if the use authorized by the special exception is not established or substantially commenced within two years after the date of the special exception approval, unless an extension of this time period is authorized in accordance with LDC Sec. 2-408.D. Lapse of Development Approval.



Coconut Road (FA# 10127369)

3231 Coconut Road  
Estero, Lee County, Florida

Photograph Locations



ECA Proj. #: 22-002464



**1: Northwesterly View Towards the Proposed Tower from Photograph Location 1  
Located Approximately 300 feet (91 meters) Southeast**

Coconut Road (FA# 10127369)

3231 Coconut Road

Estero, Lee County, Florida

Photographs



ECA Proj. #: 22-002464



**2: Northwesterly View Towards the Proposed Tower from Photograph Location 2  
Located Approximately 500 feet (152 meters) Southeast**

Coconut Road (FA# 10127369)

3231 Coconut Road  
Estero, Lee County, Florida

Photographs



ECA Proj. #: 22-002464



**3: Northeasterly View Towards the Proposed Tower from Photograph Location 3  
Located Approximately 800 feet (244 meters) Southwest**

Coconut Road (FA# 10127369)

3231 Coconut Road

Estero, Lee County, Florida

Photographs



ECA Proj. #: 22-002464



**4: Southeasterly View Towards the Proposed Tower from Photograph Location 4  
Located Approximately 950 feet (290 meters) Northwest**

Coconut Road (FA# 10127369)

3231 Coconut Road  
Estero, Lee County, Florida

Photographs



ECA Proj. #: 22-002464



















2022/08/02 11:04:16





2022/08/02 11:26:28

# BAKER DONELSON

1400 SHIPT TOWER · 420 20TH STREET NORTH · BIRMINGHAM, ALABAMA 35203 · 205.328.0480 ·  
bakerdonelson.com

N. ANDREW ROTENSTREICH, SHAREHOLDER  
**Direct Dial:** 205.250.8304  
**Direct Fax:** 205.488.3704  
**E-Mail Address:** arotenstreich@bakerdonelson.com

September 22, 2022

**VIA FEDERAL EXPRESS**

Matt Noble  
Department of Community Development  
The Village of Estero, Florida  
9401 Corkscrew Palms Circle  
Estero, Florida 33928

Re: AT&T Cell Tower  
SEZ2020-E001

Dear Matt:

This letter will provide the Applicant's summary of the issues raised at the Planning Commission's Public Information Meeting held on July 12, 2022.

1. Can the tower be moved to the Bonita Springs Industrial area located .75 miles to the Southeast?

Response: The Bonita Springs Industrial area is located outside the allowable search area for the proposed site and such location does not meet the Applicant's engineering requirements for capacity or to fill a significant gap in coverage. Although not originally considered as a viable location due to its location outside the allowable search area, due to the issue being raised at the Public Information Meeting, the Applicant recently studied the industrial area to see if such a location would suffice. The results of the investigation confirmed that such location would not sufficiently meet the Applicant's engineering requirements of coverage and capacity.

2. Can the tower be lowered from its current proposed height of 100'?

Response: The proposed cell tower was originally presented in 2021 at a height of 149' to achieve maximum capacity coverage issues. In an effort to eliminate the need for a Variance and to appease the community concerns, the proposed tower was lowered to a height of 100'. 100' is the absolute lowest minimum height allowable to meet the Applicant's engineering requirements for coverage and capacity. Lowering the antenna

height would not provide the required capacity offload relief needed provide sufficient service in the area.

3. Will a second balloon test be conducted as required by the Land Development Code (LDC)?

Response: A second balloon test was conducted on August 2, 2022, as required in the LDC.

4. Can this proposed tower be camouflaged to resemble a pine tree?

Response: Although the proposed tower could be camouflaged to resemble a pine tree, such camouflage is discouraged in this instance due to the required height of the structure in relation to the height of the surrounding foliage. Such a disparity in height between the proposed structure and existing foliage will be more noticeable with the numerous additional appendages protruding from the pole well above the existing tree line, and it no longer will meet the City's ordinance requirements for additional collocation.

5. Will the proposed tower negatively affect property values?

Response: The overwhelming number of studies conducted in the U.S. conclude that such argument is without merit. However, in order to properly evaluate this particular tower in this particular area, the Applicant has commissioned a study to determine the effects of the proposed tower on nearby property values.

6. Will the proposed tower negatively affect the health of nearby residents?

Response: The overwhelming number of studies conducted in the U.S. indicate that no such concerns exist. Furthermore, federal law prohibits local governments from denying the development of cell towers based on RF emissions so long as such emission levels are in compliance with FCC regulations. This tower will comply with such FCC regulations.

7. Can the antennas be located on the recently approved hotel to be located at the intersection of Coconut Road and Highway 41?

Response: Although the proposed hotel might work due to its location (presumably within the previously identified search area, but yet to be determined), according to plans provided by Planning Staff, the proposed height of the hotel main roof is only 58', with a small portion of the hotel roof (unknown whether suitable for collocation) rises to a top height of only 78'. Furthermore, development of the hotel has not proceeded, as it has been verbally confirmed by Planning Staff as of the date of this letter that the Developer has yet to apply for a building permit. Based on the limited height and lack of development to date, the proposed hotel location is not a viable option.

8. Did you look at an alternative location on the tower located at 22171 Kings Road in Estero, FL?

Response: AT&T sent a letter to the Estero Planning, Zoning & Design Board on July 19, 2002 confirming that it is current a tenant on the HighPoint Tower Capital LLC tower located at 22171 Kings Road, Estero, Florida. The lease was fully executed on June 1, 2001 with rent commencing in August of that same year.

If you have any questions or require any additional information, please do not hesitate to contact me.

Very truly yours,

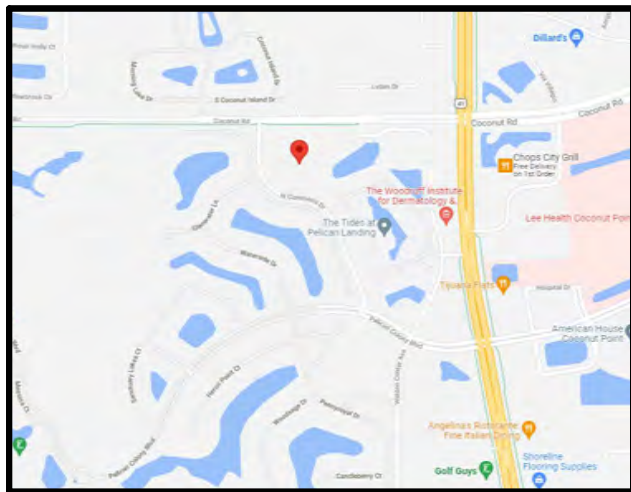
BAKER, DONELSON, BEARMAN,  
CALDWELL & BERKOWITZ, PC

*N. Andrew Rotenstreich*

N. Andrew Rotenstreich

NXR01:mSP02  
Enclosures

VICINITY MAP

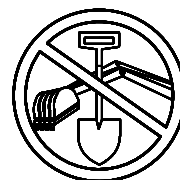


DRIVING DIRECTIONS

FROM AT&T'S LAKE MARY OFFICE: FROM LAKE EMMA RD, USE THE MIDDLE 2 LANES TO TURN LEFT ONTO W LAKE MARY BLVD, (0.1 MI); USE THE RIGHT 2 LANES TO MERGE ONTO I-4 W VIA THE RAMP TO ORLANDO, (0.6 MI); MERGE ONTO I-4 W, (9.7 MI); KEEP LEFT TO STAY ON I-4 W, (37 MI); TAKE EXIT 41 FOR FL-570 W TOWARD AUBURNDALE/LAKELAND/POLK PKWY, (1.2 MI); CONTINUE ONTO FL-570 W/POLK PKWY, (9.2 MI); TAKE EXIT 14 TO MERGE ONTO FL-540 E, (1.3 MI); TURN RIGHT ONTO THORNHILL RD, (3.1 MI); TURN RIGHT ONTO SPIRIT LAKE RD, (1.8 MI); TURN RIGHT ONTO US-17 S, (51 MI); TURN LEFT ONTO N 17TH AVE/NE TURNER AVE, (3.4 MI); TURN LEFT ONTO FL-70 E/SE HWY 70, (0.5 MI); TURN RIGHT ONTO FL-31 S, (36.4 MI); TURN RIGHT ONTO FL-80 W, (3.0 MI); MERGE ONTO I-75 S, (17.0 MI); TAKE EXIT 123 FOR COUNTY RD 850 E TOWARD ESTERO, (0.4 MI); MERGE ONTO COUNTY RD 850/CORKSCREW RD, (2.0 MI); USE THE LEFT 2 LANES TO TURN LEFT ONTO S TAMiami TRAIL, (2.3 MI); TURN RIGHT ONTO COCONUT RD, (0.3 MI); TURN LEFT INTO ELKS CLUB, (250 FT); SITE IS BEHIND ELKS CLUB BUILDING

SCOPE OF WORK

- THIS PROJECT CONSISTS OF:
- NEW 15'-0"X20'-0" LEASE AREA
  - NEW AT&T WUC & GENERATOR ON 9'-6"X12'-0" CONCRETE PAD
  - NEW AT&T ANTENNAS ON NEW MONOPOLE



FLORIDA ONE-CALL  
STATE WIDE CALL: 811  
CALL BEFORE YOU DIG

DEPARTMENT	NAME/SIGNATURE	DATE
LAND/TOWER OWNER		
SITE ACQU. AGENT		
ZONING/PERMITTING AGENT		
A&E MANAGER		
CONSTRUCTION MANAGER		
RF MANAGER		



SITE NAME:

**COCONUT ROAD**

FA NUMBER:

**10127369**

PACE #

**MRNFL000095**

PROJECT DESCRIPTION:

**PROPOSED 99' MONOPOLE**

BUILDING CODES AND STANDARDS

- FLORIDA BUILDING CODE 7th EDITION (2020) - 2018 IBC W/ASCE
- ANSI/EIA/TIA-222-H (ALLOWED PER EXEMPTION #5 OF 1609.1.1)
- ASCE 7-10
- Vult = 140 MPH (ULTIMATE 3 SECOND GUST)
- OCCUPANCY CATEGORY= II
- EXPOSURE= C
- IMPORTANCE FACTOR= 1.0
- NATIONAL ELECTRICAL CODE: 2017 EDITION (NFPA 70)
- MECHANICAL CODE: MECHANICAL CODE, 6TH EDITION
- FIRE CODE: FLORIDA FIRE PREVENTION CODE 7th EDITION
- LIFE SAFETY CODE: NFPA-101-2018
- CONTRACTOR TO CONFIRM THAT THE SITE IS COMPLIANT WITH RF WARNING SIGNAGE & EMERGENCY SIGNAGE AS REQUIRED BY THE FEDERAL GUIDELINES CONTAINED WITH OET 65 BULLETIN & AS PER AT&T GUIDELINES

THESE CD'S WERE COMPILED IN PART BY UTILIZING ATT RFDS 2402810 V4.0 DATE 11/22/21

PROJECT INFORMATION

SITE ADDRESS: 3231 COCONUT ROAD  
ESTERO, FLORIDA 34134

JURISDICTION: LEE COUNTY

LATITUDE (NAD 83): 26° 23' 48.823" N (26.396895)  
LONGITUDE (NAD 83): 81° 48' 53.922" W (-81.814978)

PARCEL ID: 09-47-25-E4-U1869.1993  
ZONING: CS-2  
JURISDICTION: VILLAGE OF ESTERO

PROPERTY OWNER: BONITA SPRINGS LODGE #2753  
3231 COCONUT ROAD  
ESTERO, FLORIDA 34134

APPLICANT: AT&T MOBILITY  
3210 LAKE MARY RD.  
LAKE MARY, FL 32746

PROJECT MANAGEMENT FIRM: HIGH PERFORMANCE SERVICES, LLC  
3001 MILLS STREET  
LAFAYETTE, LA 70507

ENGINEER: SMW ENGINEERING  
158 BUSINESS CENTER DRIVE  
BIRMINGHAM, AL 35244  
CONTACT: JEREMY SHARIT, PE  
PHONE: 205-397-6781

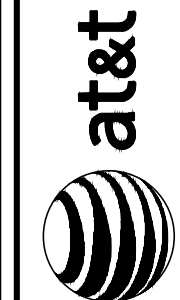
POWER: FP&L (FLORIDA POWER & LIGHT)  
FIBER: AT&T MOBILITY

DRAWING INDEX

#	DATE	DESCRIPTION
T-1		TITLE SHEET & PROJECT INFORMATION
T-2		GENERAL NOTES
--		SURVEY
C-1		AERIAL SITE PLAN
C-1.1		SITE PLAN
C-2		COMPOUND PLAN
C-3		EQUIPMENT LAYOUT
C-4		ANTENNA ELEVATION & LAYOUT
C-4.1		ANTENNA MOUNT PIPE DETAILS
C-5		ANTENNA DETAILS
C-6		DETAILS
C-7		RRH DETAILS
C-8		CABLE MOUNTING DETAILS
C-9		GENERATOR DETAILS
C-10		COAX/ANTENNA SCHEDULE
C-11		SITE SIGNAGE
C-11.1		CABINET & GENERATOR SIGNAGE
C-12		FENCE DETAILS
S-1		GENERAL STRUCTURAL NOTES
S-2		FOUNDATION DETAILS
S-3		SWIC EQUIPMENT DETAILS
S-4		SWIC EQUIPMENT LAYOUT
S-5		SWIC ELEVATION DETAILS
S-5.1		CONCRETE FOUNDATION MOUNT DETAILS
S-6		STAIR DETAILS
E-1		ELECTRICAL NOTES
E-2		UTILITY ROUTING PLAN
E-3		ONE-LINE DIAGRAM
E-4		PROPOSED GROUNDING PLAN
E-5		GROUNDING DETAILS AND NOTES
E-6		ELECTRICAL DETAILS
E-7		AT&T UTILITY FRAME DETAILS
L-1		LANDSCAPE PLAN



SMW #: 18-1862



#	DATE	DESCRIPTION
0	12/20/21	ISSUED FOR CLIENT REV.
1	01/04/22	REISSUED FOR CLIENT REV.
2	01/06/22	REISSUED FOR CLIENT REV.
3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
TITLE SHEET &  
PROJECT INFORMATION

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

**T-1**

**GENERAL NOTES:**

- ALL REFERENCES TO OWNER HEREIN SHALL BE CONSTRUED TO MEAN AT&T OR IT'S 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 AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.
- 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 ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER 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 THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE TESTING AGENCY PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. 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 CONSTRUCTION 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.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL BUILDING CODE.
- ALL PROPOSED CELLULAR EQUIPMENT AND FIXTURES SHALL BE FURNISHED BY OWNER FOR INSTALLATION BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
- 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.
- PREFABRICATED BUILDING INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

**STRUCTURAL STEEL NOTES:**

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE A.I.S.C. SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS- ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE A.I.S.C. CODE OF STANDARD PRACTICE.
- STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A26. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.1.1/D1.1M:2010. STRUCTURAL WELDING CODE-STEEL WELD ELECTRODES SHALL BE E70XX.
- ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615 GRADE 60, DEFORMED BILLET STEEL BARS. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A185.
- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST A.I.S.C. SPECIFICATIONS.
- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
- HOT-DIP GALVANIZE ITEMS SPECIFIED TO BE ZINC-COATED, AFTER FABRICATION WHERE PRACTICAL. GALVANIZING: ASTM A 123, ASTM, A 153/A 153M OR ASTM A 653/A 653M, G90, AS APPLICABLE.
- REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A 780 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.
- CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS IF NO INFORMATION IS CONTAINED IN THESE PLANS OR IF THE MANUFACTURER'S SPECIFICATIONS ARE STRICTER.

NOTE: REFER TO AT&T SPECIFICATIONS AS THE CONTROLLING STANDARD FOR PROPOSED CONSTRUCTION.

**PERMITS:**

- CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES.
- ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND THE ACI 318-08, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

**MISCELLANEOUS:**

- ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLES SHALL CONFORM TO ASTM A307 OR ASTM 36. ALL STRUCTURAL FASTNERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.
- THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
- NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.

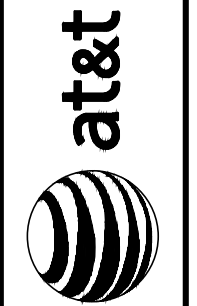
- PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS.
- MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS TO BE A MIN. OF 8" RADIUS.
- FOR GROUNDING TO BUILDING FRAME AND HATCH PLATE GROUND BARS, USE A TWO-BOLT HOLE NEPA DRILLED CONNECTOR SUCH AS T&B 32007 OR APPROVED EQUAL.
- FOR ALL EXTERNAL GROUND CONNECTIONS, CLAMPS AND CADWELDS, APPLY A LIBERAL PROTECTIVE COATING OR AN ANTI-OXIDE COMPOUND SUCH AS 'NO-OXIDE A' BY DEARBORN CHEMICAL COMPANY.
- REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING COLD GALVANIZATION.
- ANTENNA CABLE LENGTHS HAVE BEEN DETERMINED BASED ON THESE PLANS. CABLE LENGTHS LISTED ARE APPROXIMATED AND ARE NOT INTENDED TO BE USED FOR FABRICATION. DUE TO FIELD CONDITIONS, ACTUAL CABLE LENGTHS VARY. CONTRACTOR MUST FIELD VERIFY ANTENNA CABLE LENGTHS PRIOR TO ORDER.

**SYMBOL LEGEND:**

—x—	FENCE
---	CONTOUR LINE
---	PROPERTY LINE/ROW
---	LEASE AREA
---	EASEMENT
□	DISCONNECT SWITCH
Ⓜ	METER
Ⓢ	CIRCUIT BREAKER
ⓧ	CODED NOTE NUMBER
Ⓢ	CHEMICAL GROUND ROD
ⓧ	GROUND ROD
ⓧ	GROUND ROD W/ INSPECTION SLEEVE
■	CADWELD TYPE CONNECTION
○	COMPRESSION TYPE CONNECTION
—G—	GROUND WIRE



SMW # 18-1862



#	DATE	DESCRIPTION:
0	12/20/21	ISSUED FOR CLIENT REV.
1	01/04/22	REISSUED FOR CLIENT REV.
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3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD

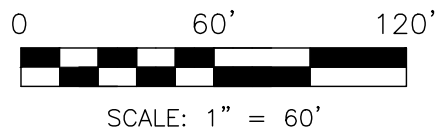
GENERAL NOTES

THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY JEREMY D SHARIT, PE (#75137) USING A DIGITAL SIGNATURE IN ACCORDANCE WITH FAC 61G15-23.004, WITH A DIGITAL CERTIFICATION ISSUED BY ENTRUST INC. PLEASE VIEW THE SIGNATURE & VERIFY ITS PROPERTIES. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED & THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

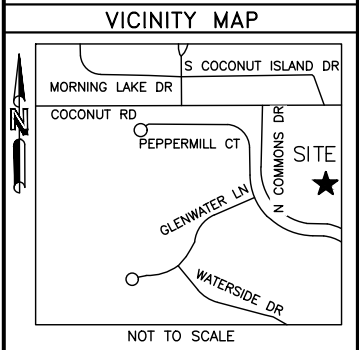
DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369

T-2



TOWER INFO			
LATITUDE:	26°23'48.823" NORTH		
LONGITUDE:	81°48'53.922" WEST (NAD 83)		
GROUND ELEVATION:	16.5' ABOVE MEAN SEA LEVEL (NAVD88)		



NO.	REVISION	DATE	BY
1.	REVISED LEASE AREA & ACCESS	7/29/19	KM
2.	UPDATED TITLE	10/26/20	KM
3.	UPDATED LEASE AREA/ESMNT	12/7/21	CS

PROJECT NO. 18-1862

DRAWN BY: KM  
 CHECKED BY: AAK  
 FIELD CREW: BS  
 APPROVED BY: WHS  
 DATE: 08/22/18  
 SCALE: 1" = 60'  
 SHEET 1 OF 2

LINE	BEARING	DISTANCE
L1	N 35°15'21" E	63.86'
L2	N 46°47'41" W	70.00'
L3	N 43°12'19" E	70.00'
L4	S 46°47'41" E	70.00'
L5	S 43°12'19" W	70.00'
L6	N 34°05'19" E	34.19'
L7	N 20°03'54" W	263.27'
L8	N 00°00'08" E	41.63'
L9	N 89°55'06" E	30.00'
L10	S 00°00'08" W	36.37'
L11	S 20°03'54" E	260.96'
L12	S 34°05'19" W	59.96'
L13	N 46°47'41" W	20.26'

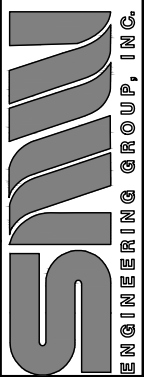
**FLORIDA WEST**  
 GRID NORTH  
 GRID TO TRUE NORTH CONVERGENCE 0°04'  
 TRUE NORTH TO MAGNETIC DECLINATION 5°52' W  
 COMBINED SCALE FACTOR 0.999945383

- LEGEND**
- = FOUND PROPERTY MARKER
  - = 5/8" REBAR SET
  - POB = POINT OF BEGINNING
  - POC = POINT OF COMMENCEMENT
  - POE = POINT OF ENDING
  - ▲ = CALCULATED POINT
  - (R) = REFERENCED INFORMATION
  - (M) = MEASURED
  - ⊗ = POWER POLE
  - ⊕ = FIRE HYDRANT
  - ◆ = GAS MARKER
  - = TELEPHONE PEDESTAL
  - ⊙ = CONTROL VALVE
  - ⊕ = SANITARY MANHOLE
  - ⊞ = POWER BOX
  - ⊕ = TEMPORARY BENCHMARK  
SET PK NAIL IN ASPHALT  
ELEVATION = 15.7'
  - = RIGHT-OF-WAY
  - op- = OVERHEAD POWER

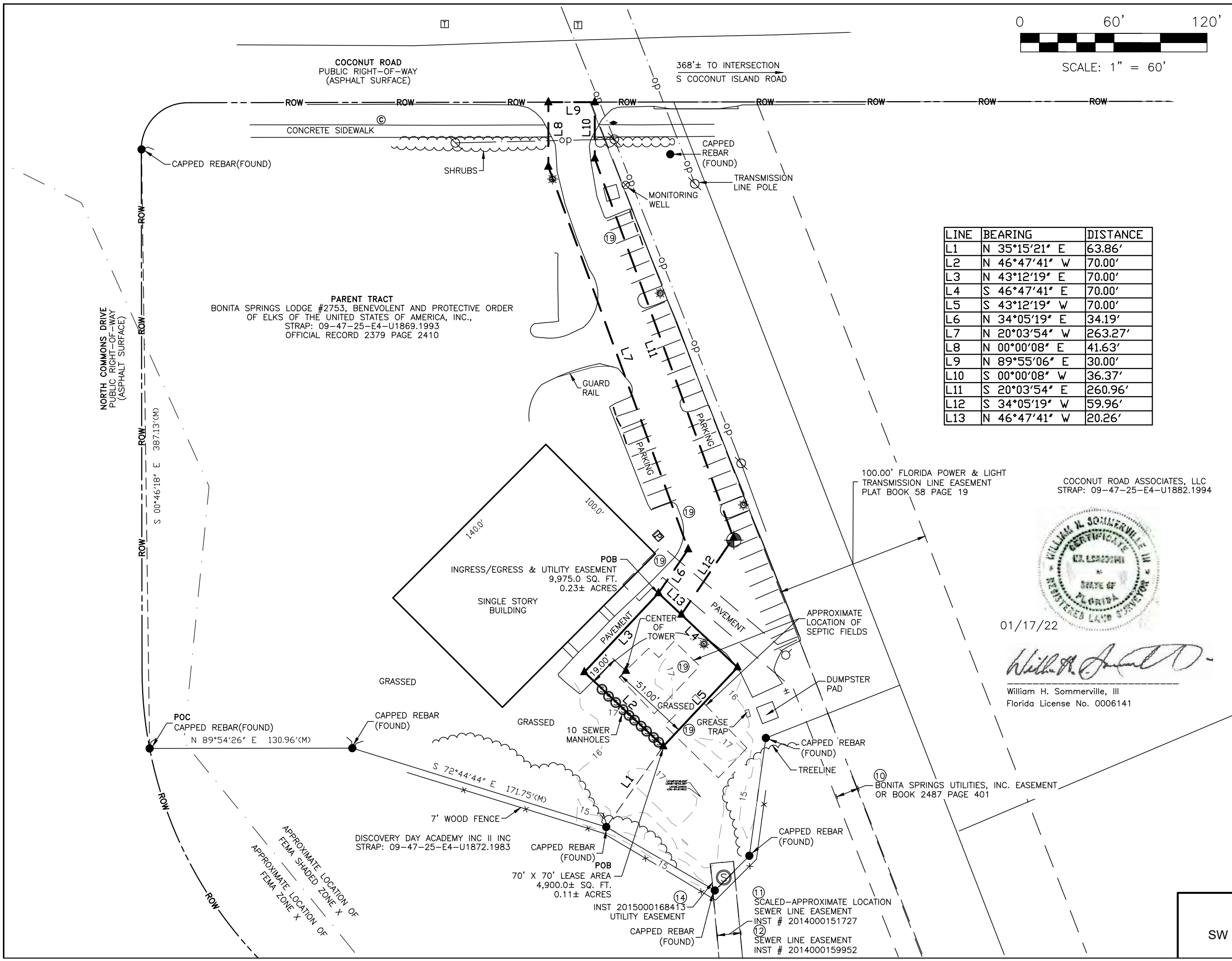
**FLOOD NOTE**  
 By graphic plotting only, the subject property appears to lie in Shaded Zone "X" of the Flood Insurance Rate Map Community Panel No. 12071C0589F, which bears an effective date of August 28, 2008 and IS in a special flood hazard area.  
 Shaded Zone 'X': Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

FOR:  
**HIGH PERFORMANCE SERVICES**  
 111 EAST SAINT PETER STREET  
 CARENCRO, LA 70520

SMW Engineering Group, Inc.  
 158 Business Center Drive  
 Birmingham, Alabama 35244  
 Ph: 205-252-6985  
 www.simweng.com



**COCONUT ROAD**  
 10127369  
 SW 1/4, SEC. 9, T-47-S, R-25-E  
 LEE COUNTY, FLORIDA



COCONUT ROAD ASSOCIATES, LLC  
 STRAP: 09-47-25-E4-U1882.1994



01/17/22

*William H. Sommerville, III*  
 William H. Sommerville, III  
 Florida License No. 0006141

100.00' FLORIDA POWER & LIGHT  
 TRANSMISSION LINE EASEMENT  
 PLAT BOOK 58 PAGE 19

10 BONITA SPRINGS UTILITIES, INC. EASEMENT  
 OR BOOK 2487 PAGE 401

**PARENT TRACT**  
 BONITA SPRINGS LODGE #2753, BENEVOLENT AND PROTECTIVE ORDER  
 OF ELKS OF THE UNITED STATES OF AMERICA, INC.,  
 STRAP: 09-47-25-E4-U1869.1993  
 OFFICIAL RECORD 2379 PAGE 2410

NORTH COMMONS DRIVE  
 PUBLIC RIGHT-OF-WAY  
 (ASPHALT SURFACE)

S 00°46'18" E 387.13'(M)

POC CAPPED REBAR(FOUND)  
 N 89°54'26" E 130.96'(M)

APPROXIMATE LOCATION OF  
 FEMA SHADED ZONE X  
 APPROXIMATE LOCATION OF  
 FEMA ZONE X

DISCOVERY DAY ACADEMY INC II INC  
 STRAP: 09-47-25-E4-U1872.1983

70' X 70' LEASE AREA  
 4,900.0± SQ. FT.  
 0.11± ACRES

11 SCALED-APPROXIMATE LOCATION  
 SEWER LINE EASEMENT  
 INST # 2014000151727  
 12 SEWER LINE EASEMENT  
 INST # 2014000159952

**PARENT TRACT (FROM TITLE)**

A portion of:  
 A tract or parcel of land lying in the Southwest 1/4 of Section 9, Township 47 South, Range 25 East, Lee County, Florida, being more particularly described as follows:  
 From the Northeast corner of the Southwest 1/4 of said Section 9 run South 01°00'24" East along the East line of said Southwest 1/4 for 62.16 feet to the South right-of-way line of Coconut Road (50 foot R.O.W.); thence run North 89°35'50" West along the South right-of-way line for 799.16 feet to the Point of Beginning. From said Point of Beginning run South 20°53'52" East for 748.16 feet to the North line of a proposed right-of-way; thence run along the arc of a curve to the left with a radius of 530.00 feet (Delta 27°42'00") (Chord bearing North 75°44'50" West) (Chord 253.74 feet) for 256.23 feet to a point of tangency; thence run North 89°35'50" West for 99.41 feet to a point of curvature; thence run along the arc of a curve to the right with a radius of 270.00 feet (Delta 90°00'00") (Chord bearing North 44°35'50" West) (Chord 381.84 feet) for 424.12 feet to a point of tangency; thence run North 00°24'10" East for 336.31 feet to a point of curvature; thence run along the arc of a curve to the right with a radius of 30.00 feet (Delta 90°00'00") (Chord bearing North 45°24'10" East) (Chord 42.43 feet) for 47.12 feet to a point of tangency and the intersection of said South right-of-way line of Coconut Road; thence run South 89°35'50" East along said South right-of-way for 314.00 feet to the Point of Beginning.

Less and except that portion conveyed in Official Records Book 4692, Page 777, of the Public Records of Lee County, Florida.

**70' X 70' LEASE AREA (AS SURVEYED)**

Being a portion of the Bonita Springs Lodge #2753 Benevolent and Protective Order of Elks of the United States of America, Inc. tract described in Official Record 2379 Page 2408 as recorded in the Office of County Clerk for Lee County, Florida, being in the SW 1/4 of Section 9, Township 47 South, Range 25 East, Lee County, Florida and being more particularly described as follows:  
 Commence at a capped rebar found marking the Easterly right-of-way of N Commons Drive and the Southwest corner of said Bonita Springs Lodge tract; thence leaving said right-of-way run N 89°54'26" E for a distance of 130.96 feet to capped rebar found; thence N 35°15'21" E a distance of 63.86 feet to the Point of Beginning; thence N 46°47'41" W a distance of 70.00 feet to a point; thence N 43°12'19" E a distance of 70.00 feet to a point; thence S 46°47'41" E a distance of 70.00 feet to a point; thence S 43°12'19" W a distance of 70.00 feet to the Point of Beginning. Said above described Lease Area contains 4,900.0 square feet or 0.11 acres, more or less.

**30' INGRESS/EGRESS & UTILITY EASEMENT (AS SURVEYED)**

Being a portion of the Bonita Springs Lodge #2753 Benevolent and Protective Order of Elks of the United States of America, Inc. tract described in Official Record 2379 Page 2408 as recorded in the Office of County Clerk for Lee County, Florida, being in the SW 1/4 of Section 9, Township 47 South, Range 25 East, Lee County, Florida and being more particularly described as follows:  
 Commence at a capped rebar found marking the Easterly right-of-way of N Commons Drive and the Southwest corner of said Bonita Springs Lodge tract; thence leaving said right-of-way run N 89°54'26" E for a distance of 130.96 feet to capped rebar found; thence N 35°15'21" E a distance of 63.86 feet to a point; thence N 46°47'41" W a distance of 70.00 feet to the Point of Beginning; thence N 34°05'19" E a distance of 34.19 feet to a point; thence N 20°03'54" W a distance of 263.27 feet to a point; thence N 00°00'08" E a distance of 41.63 feet, more or less, to a point on the south right-of-way line of Coconut Road; thence N 89°55'06" E along said south right-of-way distance of 30.00 feet to a point; thence S 00°00'08" W leaving said south right-of-way line a distance of 36.37 feet to a point; thence S 20°03'54" E a distance of 260.96 feet to a point; thence S 34°05'19" W a distance of 59.96 feet to a point; thence N 46°47'41" W a distance of 20.26 feet to the Point of Beginning. Said above described Easement contains 9,975.0 square feet or 0.23 acres, more or less.

**SURVEYOR'S NOTES**

1. This is a Rawland Tower Survey, made on the ground under the supervision of a Florida Registered Land Surveyor. Date of field survey is August 14, 2018.
2. The following surveying instruments were used at time of field visit: Nikon NPL-352, Total Station, Reflectorless and Hiper + Legacy E RTK, GD 1HZ.
3. Bearings are based on Florida West State Plane Coordinates NAD 83 by GPS observation.
4. No underground utilities, underground encroachments or building foundations were measured or located as a part of this survey, unless otherwise shown. Trees and shrubs not located, unless otherwise shown.
5. Benchmark used is a GPS Continuously Operating Reference Station, PID DG4691. Onsite benchmark is as shown hereon. Elevations shown are in feet and refer to NAVD 88.
6. This survey was conducted for the purpose of a Rawland Tower Survey only, and is not intended to delineate the regulatory jurisdiction of any federal, state, regional or local agency, board, commission or other similar entity.
7. Attention is directed to the fact that this survey may have been reduced or enlarged in size due to reproduction. This should be taken into consideration when obtaining scaled data.
8. This Survey was conducted with the benefit of an Abstract Title search.
9. Surveyor hereby states the Geodetic Coordinates and the elevation shown for the proposed centerline of the tower are accurate to within +/- 20 feet horizontally and to within +/- 3 feet vertically (FAA Accuracy Code 1A).
10. Survey shown hereon conforms to the Minimum Requirements as set forth by the State Board for a Class "A" Survey.
11. Field data upon which this map or plat is based has a closure precision of not less than one-foot in 15,000 feet (1':15,000') and an angular error that does not exceed 10 seconds times the square root of the number of angles turned. Field traverse was not adjusted.
12. This survey is not valid without the original signature and the original seal of a state licensed surveyor and mapper.
13. This survey does not constitute a boundary survey of the Parent Tract. Any parent tract property lines shown hereon are from supplied information and may not be field verified.
14. Per supplied information zoning classification CS-2.
15. Tower location meets 75' setback requirement.

**PLOTTABLE EXCEPTIONS**  
 Chicago Title Insurance Company  
 Issuing Office File No. Simms/Coconut Rd \_ Order No: 7114930  
 Date May 20, 2020 @ 5:00 pm  
 Schedule B, Section II

Exception No.	Instrument	Comment
1-5	N/A	Standard exceptions. Contain no survey matters.
6	Book 228 Page 574	Document is illegible.
7	N/A	Intentionally deleted.
8	Book 2306 Page 2929	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
9	Book 2487 Page 401	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
10	Book 2551 Page 986	Does affect the easement, does not affect the lease area, and is shown hereon.
11	Official Record 2014000151727	Does affect the lease area, does not affect the easement, and is shown hereon.
12	Official Record 2014000159952	Does not affect the lease area and easement, is blanket in nature, & is shown for reference.
13	Official Record 2014000159953	Does not affect the lease area and easement, and is not shown hereon.
14	Official Record 2015000168413	Does affect the lease area, does not affect the easement, and is shown hereon.
	Official Record 2015000220469	Does affect the lease area, does not affect the easement, and is shown hereon.
15	Official Record 2008000255213	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
	Official Record 2018000010940	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
	Official Record 2008000255214	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
	Official Record 2008000255215	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
	Official Record 2013000162854	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
16	Official Record 2015000272403	Does affect the lease area and easement, is blanket in nature, and is not shown hereon.
17	N/A	No document.
18	N/A	No document.
19	Prior unsigned survey by High Performance project 18-1862, dated 8/22/18	
	1. Guard rails in easement area.	Does affect the easement & is shown hereon.
	2. Paved walkways in easement area.	Does affect the easement & is shown hereon.
	3. Parking spaces in easement area.	Does affect the easement & is shown hereon.
	4. Septic fields within easement & lease area.	Does affect the lease area, but not the easement & is shown hereon.
	5. Sewer line easement with lease area.	No document.

**SURVEYOR'S CERTIFICATION**



I certify that all parts of this survey and drawing have been completed in accordance with the current requirements of the Standards of Practice for Surveying in the State of Florida to the best of my knowledge, information, and belief.

*William H. Sommerville, III*

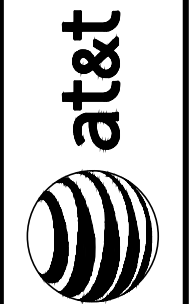
William H. Sommerville, III  
 Florida License No. 0006141

01/17/22

COCONUT ROAD  
 10127369  
 SW 1/4, SEC. 9, T-47-S, R-25-E  
 LEE COUNTY, FLORIDA

BY	DATE	REVISION	NO.	PROJECT NO.
MM	7/29/19	REVISED LEASE AREA & ACCESS	1.	18-1862
KM	10/26/20	UPDATED TITLE	2.	
CS	12/7/21	UPDATED LEASE AREA/ESMNT	3.	
DRAWN BY: KM		CHECKED BY: AAK		RAWLAND TOWER SURVEY <b>HIGH PERFORMANCE SERVICES</b> 111 EAST SAINT PETER STREET CARENCRO, LA 70520
FIELD CREW: BS		APPROVED BY: WHS		
DATE: 08/22/18		SCALE: N.T.S.		
SHEET 2 OF 2				
SMW Engineering Group, Inc. 158 Business Center Drive Birmingham, Alabama 35244 Ph: 205-252-6985 www.simweng.com				





**FLOOD NOTE**  
BY GRAPHIC PLOTTING ONLY, THE SUBJECT PROPERTY APPEARS TO LIE IN SHADED ZONE "X" OF THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 12071C0589F, WHICH BEARS AN EFFECTIVE DATE OF AUGUST 28, 2008 AND IS IN A SPECIAL FLOOD HAZARD AREA. SHADED ZONE 'X': AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

LINE	BEARING	DISTANCE
L1	N 35°15'21" E	63.86'
L2	N 46°47'41" W	70.00'
L3	N 43°12'19" E	70.00'
L4	S 46°47'41" E	70.00'
L5	S 43°12'19" W	70.00'
L6	N 34°05'19" E	34.19'
L7	N 20°03'54" W	263.27'
L8	N 00°00'08" E	41.63'
L9	N 89°55'06" E	30.00'
L10	S 00°00'08" W	36.37'
L11	S 20°03'54" E	260.96'
L12	S 34°05'19" W	59.96'
L13	N 46°47'41" W	20.26'

**PARENT TRACT**  
BONITA SPRINGS LODGE #2753, BENEVOLENT AND PROTECTIVE ORDER OF ELKS OF THE UNITED STATES OF AMERICA, INC.,  
STRAP: 09-47-25-E4-U1869.1993  
OFFICIAL RECORD 2379 PAGE 2410

100.00' FLORIDA POWER & LIGHT  
TRANSMISSION LINE EASEMENT  
PLAT BOOK 58 PAGE 19

COCONUT ROAD ASSOCIATES, LLC  
STRAP: 09-47-25-E4-U1882.1994

#	DATE	DESCRIPTION
0	12/20/21	ISSUED FOR CLIENT REV.
1	01/04/22	REISSUED FOR CLIENT REV.
2	01/06/22	REISSUED FOR CLIENT REV.
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4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD

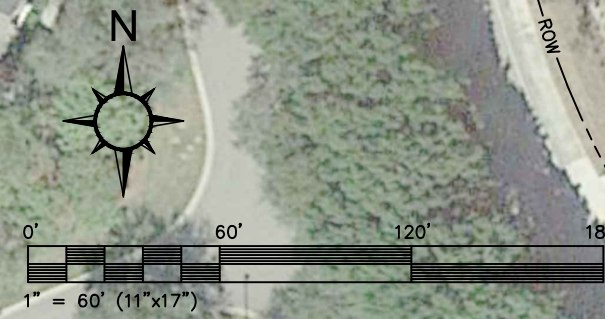
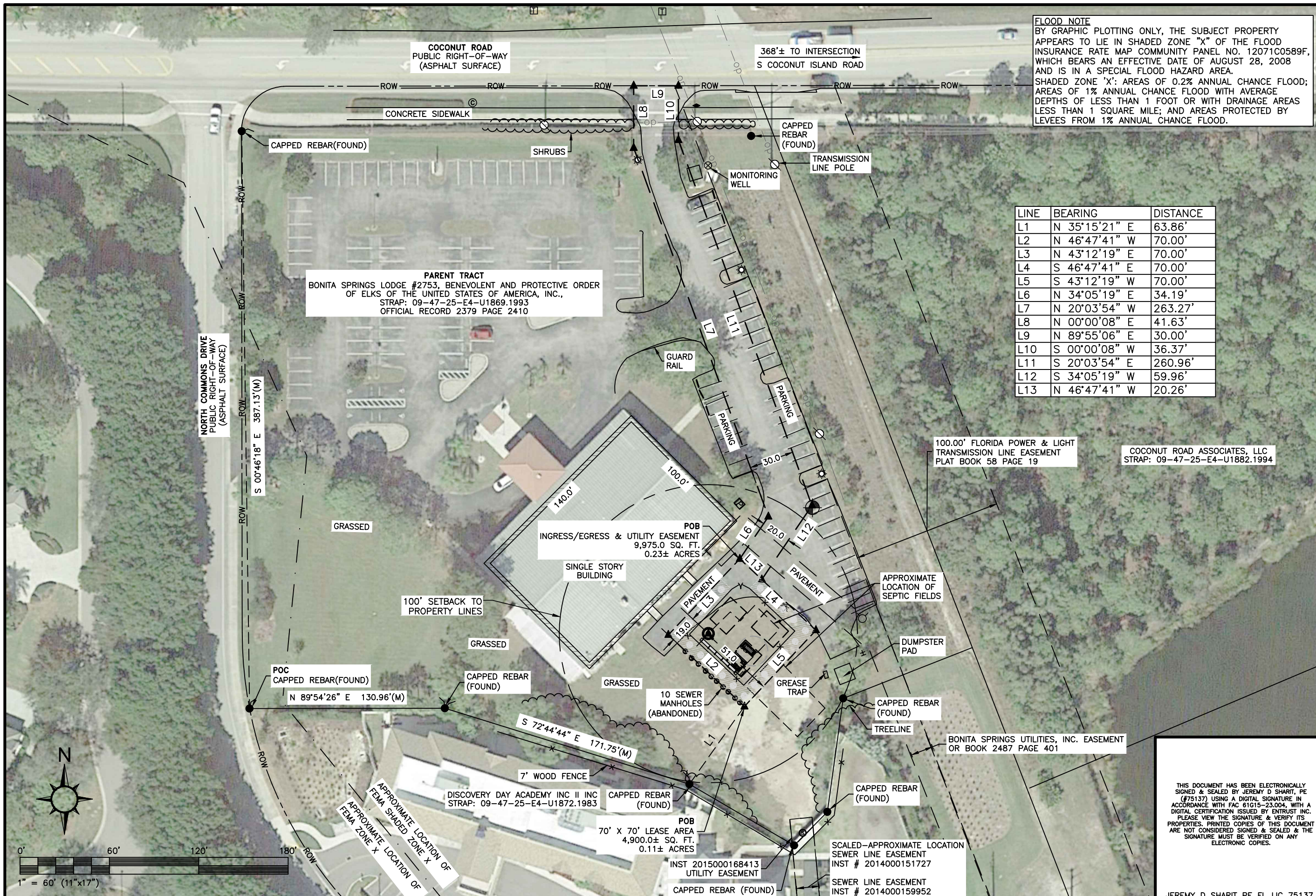
AERIAL SITE PLAN

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

C-1

THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY JEREMY D SHARIT, PE (#75137) USING A DIGITAL SIGNATURE IN ACCORDANCE WITH FAC 61G15-23.004, WITH A DIGITAL CERTIFICATION ISSUED BY ENTRUST INC. PLEASE VIEW THE SIGNATURE & VERIFY ITS PROPERTIES. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED & THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

JEREMY D SHARIT PE FL LIC 75137



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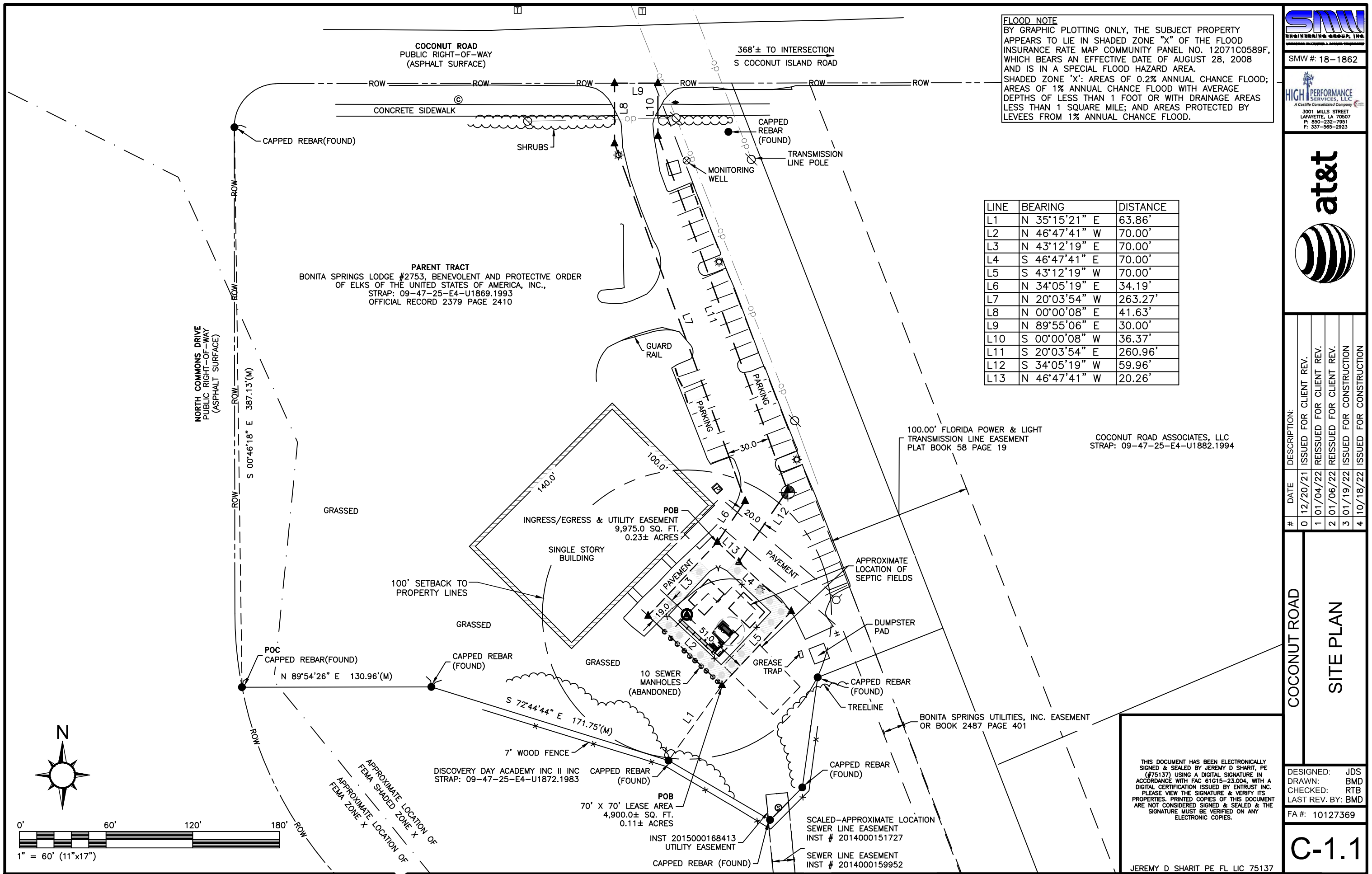
COCONUT ROAD  
**SITE PLAN**

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369  
**C-1.1**

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L11	S 20°03'54" E	260.96'
L12	S 34°05'19" W	59.96'
L13	N 46°47'41" W	20.26'



COCONUT ROAD PUBLIC RIGHT-OF-WAY (ASPHALT SURFACE)  
CONCRETE SIDEWALK  
CAPPED REBAR(FOUND)  
SHRUBS  
L9  
L10  
L11  
L12  
L13

368'± TO INTERSECTION  
S COCONUT ISLAND ROAD

CAPPED REBAR (FOUND)  
MONITORING WELL  
TRANSMISSION LINE POLE

**PARENT TRACT**  
BONITA SPRINGS LODGE #2753, BENEVOLENT AND PROTECTIVE ORDER OF ELKS OF THE UNITED STATES OF AMERICA, INC.,  
STRAP: 09-47-25-E4-U1869.1993  
OFFICIAL RECORD 2379 PAGE 2410

NORTH COMMONS DRIVE PUBLIC RIGHT-OF-WAY (ASPHALT SURFACE)  
ROW  
S 00°46'18" E 387.13'(M)

100.00' FLORIDA POWER & LIGHT TRANSMISSION LINE EASEMENT PLAT BOOK 58 PAGE 19

COCONUT ROAD ASSOCIATES, LLC STRAP: 09-47-25-E4-U1882.1994

GRASSED

INGRESS/EGRESS & UTILITY EASEMENT 9,975.0 SQ. FT. 0.23± ACRES

100' SETBACK TO PROPERTY LINES

GRASSED

CAPPED REBAR (FOUND)

POC CAPPED REBAR(FOUND) N 89°54'26" E 130.96'(M)

S 72°44'44" E 171.75'(M)

7' WOOD FENCE

DISCOVERY DAY ACADEMY INC II INC STRAP: 09-47-25-E4-U1872.1983

POB 70' X 70' LEASE AREA 4,900.0± SQ. FT. 0.11± ACRES

INST 2015000168413 UTILITY EASEMENT

CAPPED REBAR (FOUND)

SCALED-APPROXIMATE LOCATION SEWER LINE EASEMENT INST # 2014000151727

SEWER LINE EASEMENT INST # 2014000159952

CAPPED REBAR (FOUND)

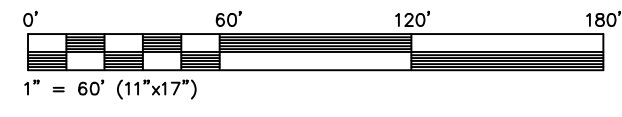
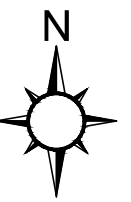
CAPPED REBAR (FOUND)

BONITA SPRINGS UTILITIES, INC. EASEMENT OR BOOK 2487 PAGE 401

APPROXIMATE LOCATION OF SEPTIC FIELDS

DUMPSTER PAD

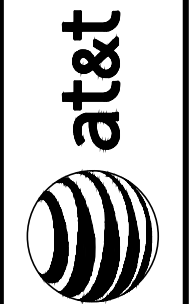
TREELINE



APPROXIMATE LOCATION OF FEMA SHADED ZONE X  
APPROXIMATE LOCATION OF FEMA ZONE X

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COCONUT ROAD

COMPOUND LAYOUT

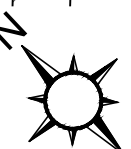
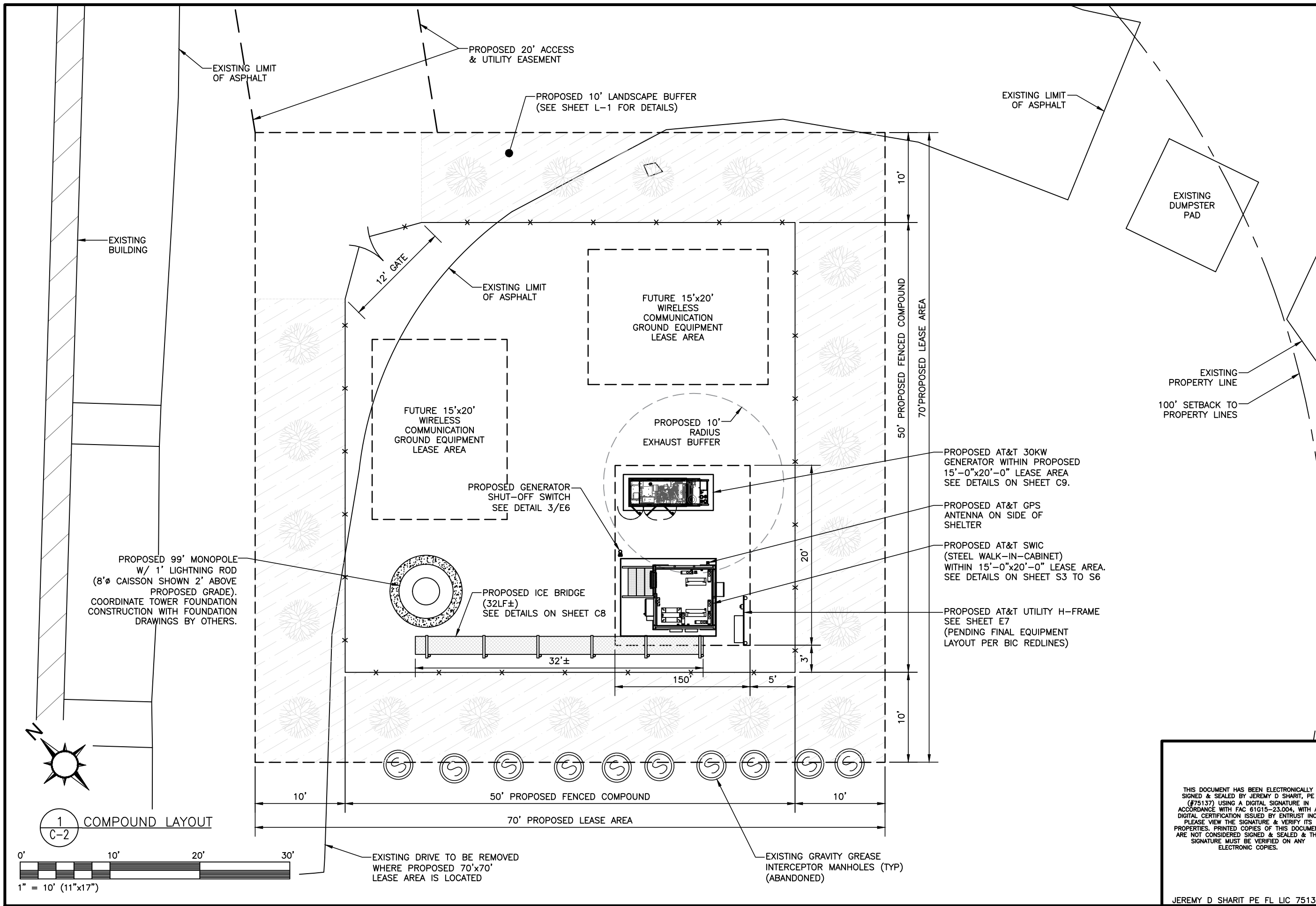
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DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369

**C-2**

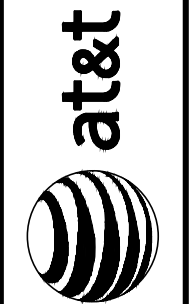
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JEREMY D SHARIT PE FL LIC 75137



1 COMPOUND LAYOUT  
C-2





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COCONUT ROAD

**EQUIPMENT LAYOUT**

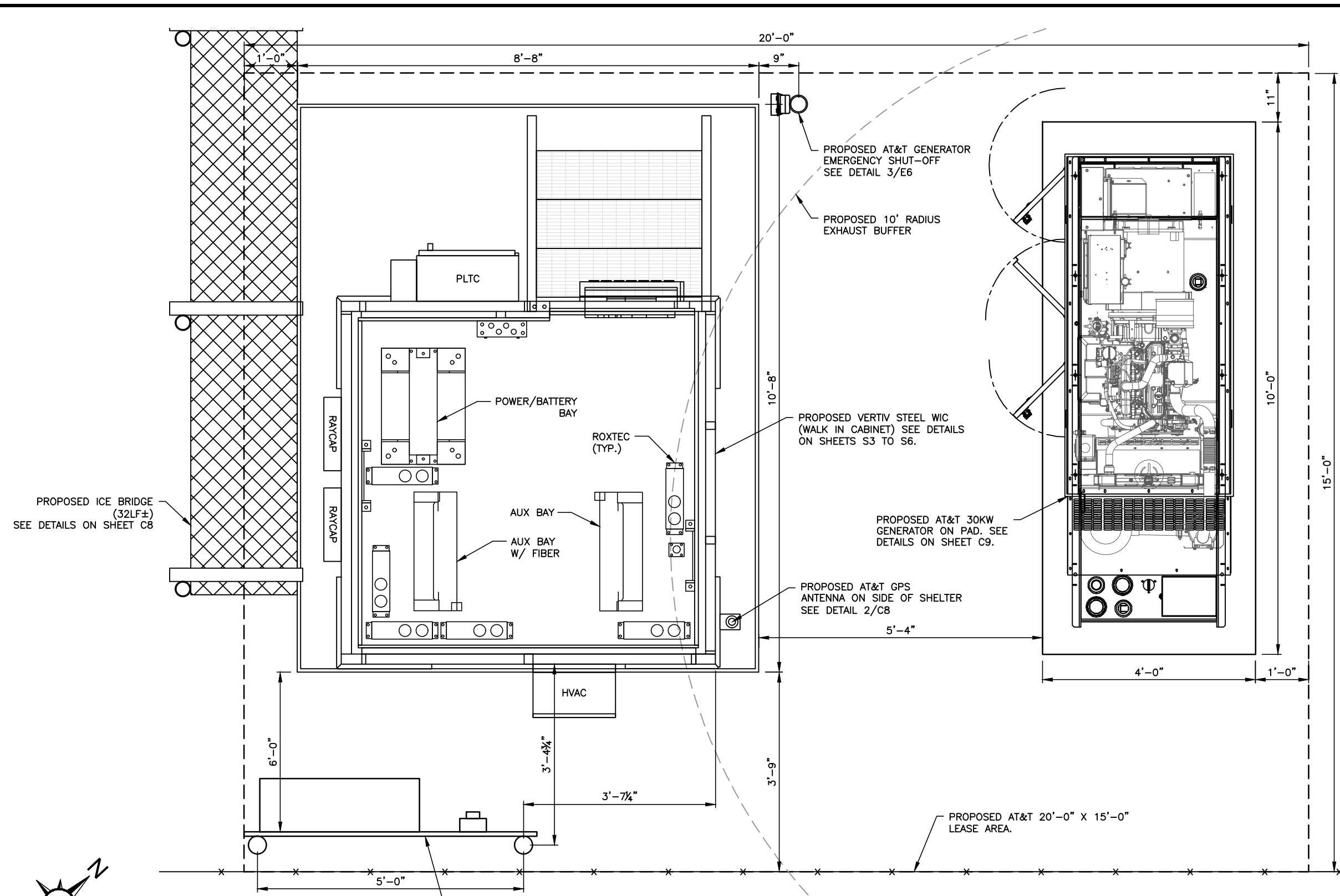
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CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369

**C-3**

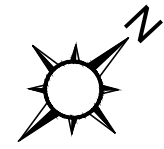
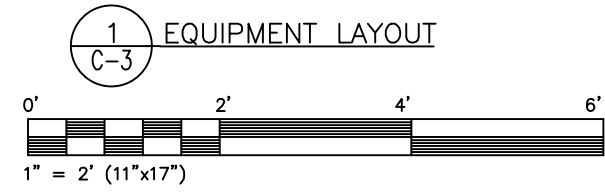
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JEREMY D SHARIT PE FL LIC 75137



- NOTES:**
- CONTRACTOR TO REFER TO CURRENT SHELTER MATRIX FOR ALL SHELTER MOUNTED EQUIPMENT, MODEL NUMBERS AND PLACEMENT.
  - CONTRACTOR TO COORDINATE EXACT EQUIPMENT LOCATION WITHIN SHELTER WITH AT&T CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
  - SEE SHEET S3 FOR EQUIPMENT DETAILS.

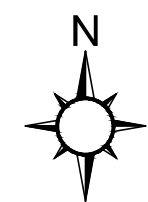
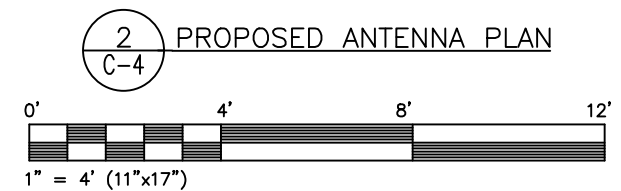
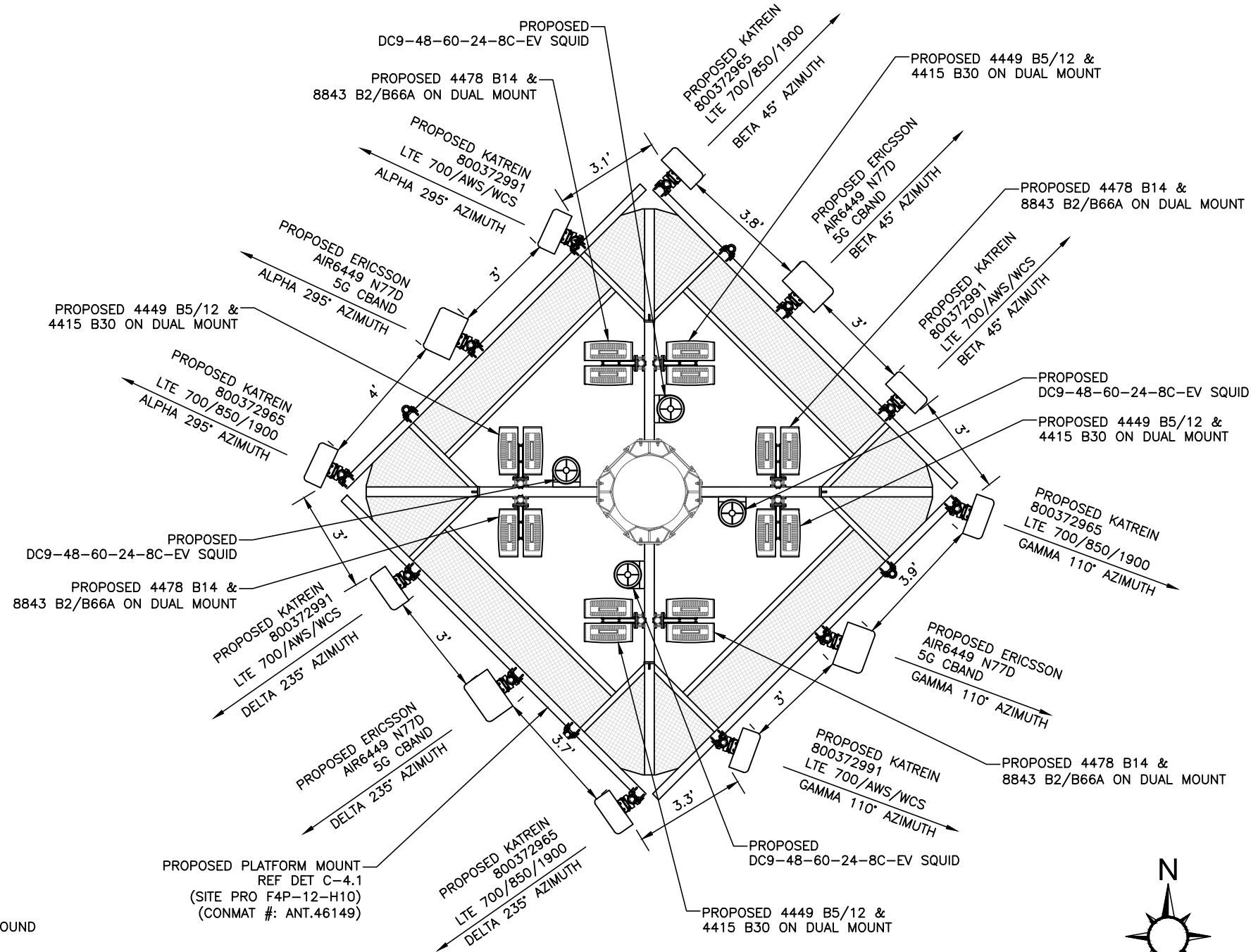
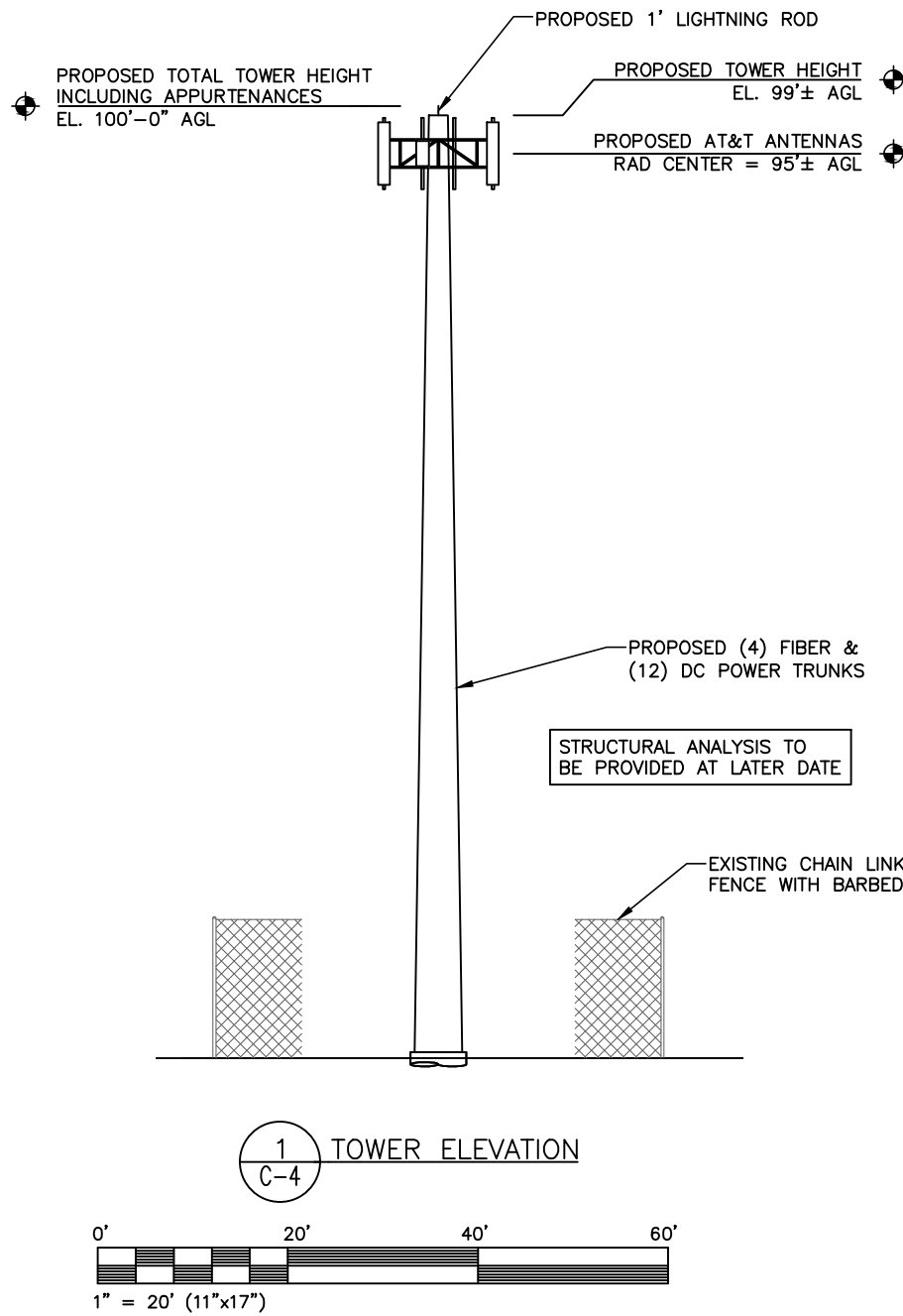
**VERTIV STEEL WIC W/  
AC 30KW DIESEL GENERATOR MODEL #SDO30**



**1** EQUIPMENT LAYOUT  
C-3

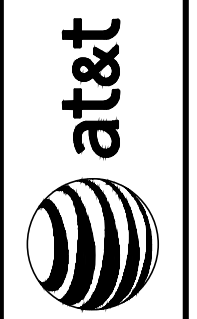
**NOTES:**

1. THESE CDS, PREPARED BY SMW ENGINEERING GROUP, INC., DO NOT SPEAK TO THE STRUCTURAL INTEGRITY OF THE TOWER OR CARRIER EQUIPMENT INSTALLED ON THE TOWER. CONTRACTOR SHALL HAVE THE LATEST STRUCTURAL ANALYSIS AND LATEST MOUNT ANALYSIS IN HAND BEFORE ANY NEW EQUIPMENT INSTALLATION PERFORMED.
2. THIS ANTENNA ORIENTATION PLAN IS A SCHEMATIC. THE CONTRACTOR SHALL VERIFY TOWER ORIENTATION AND FIELD COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA AZIMUTHS.
3. ANTENNA CENTERLINE HEIGHT BASED ON TOP OF FOOTING ELEVATION.
4. ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWER ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
5. ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER, OR EQUAL CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT WITH AT&T.
6. ALL ANTENNA INFORMATION TO BE CONFIRMED WITH LATEST AT&T RF DESIGN PRIOR TO INSTALLATION.



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REFER TO CURRENT RFDS FOR EQUIPMENT INFORMATION



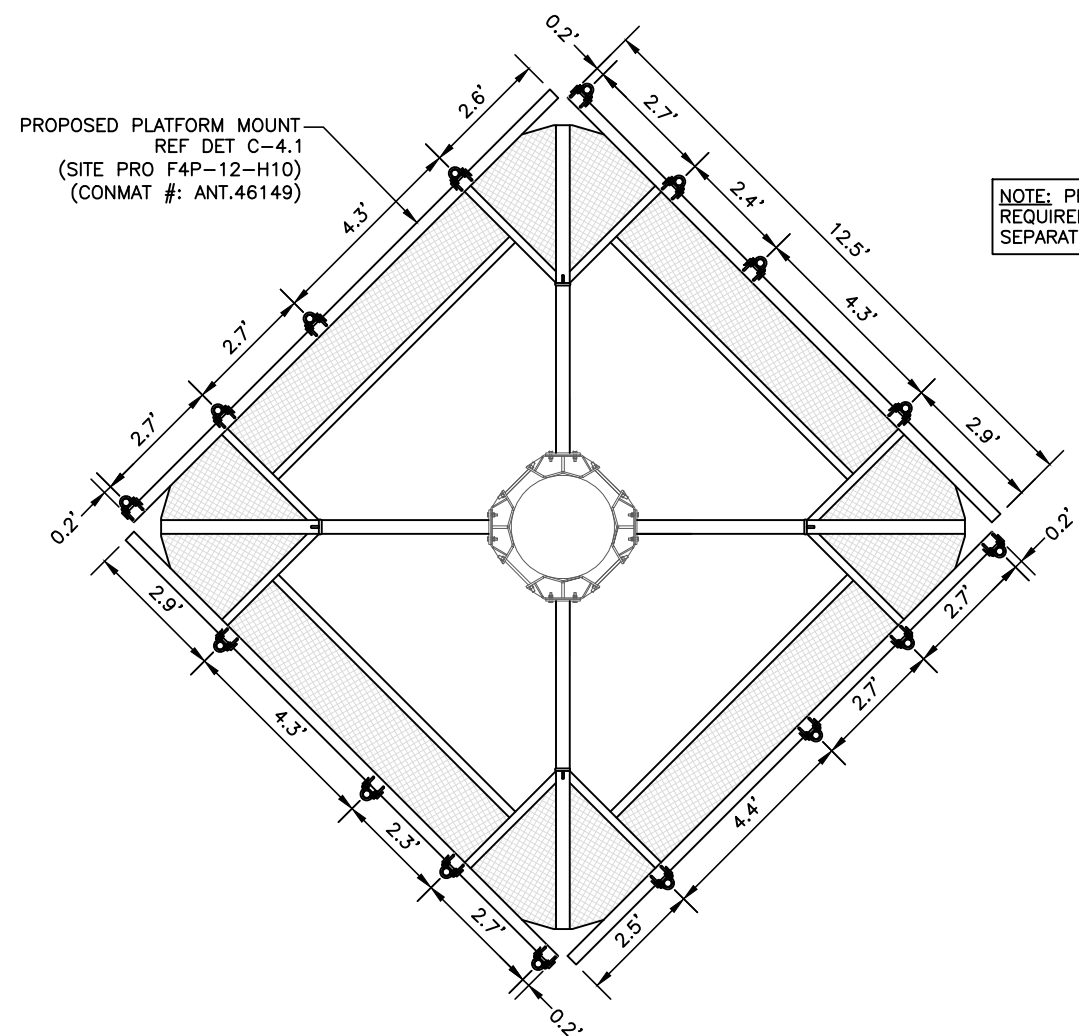
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COCONUT ROAD  
**TOWER ELEVATION**

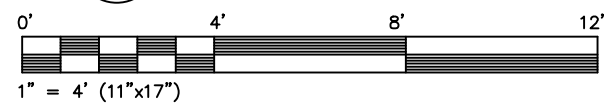
DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369

**C-4**



1 ANTENNA PIPE LAYOUT  
C-4.1



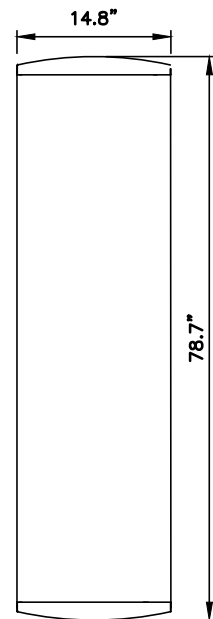
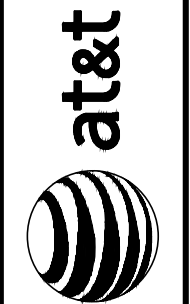
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COCONUT ROAD  
ANTENNA MOUNT PIPE  
LAYOUT

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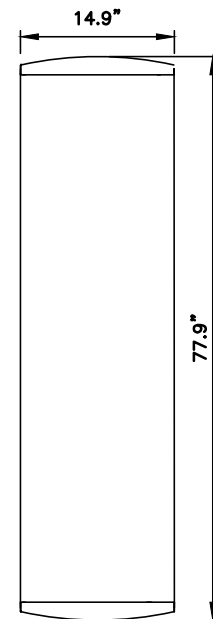
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CHECKED: RTB  
LAST REV. BY: BMD  
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**C-4.1**



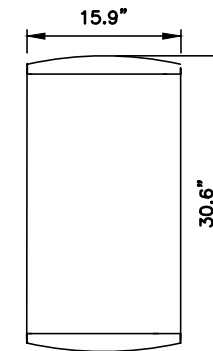
KATHREIN MODEL 800372965  
DIMENSIONS (LxWxD)..... 78.7"x14.8"x6.9"  
ANTENNA WEIGHT .....66.1 LBS

FRONT VIEW



KATHREIN MODEL 800372991  
DIMENSIONS (LxWxD)..... 77.9"x14.9"x6.5"  
ANTENNA WEIGHT .....74.9 LBS

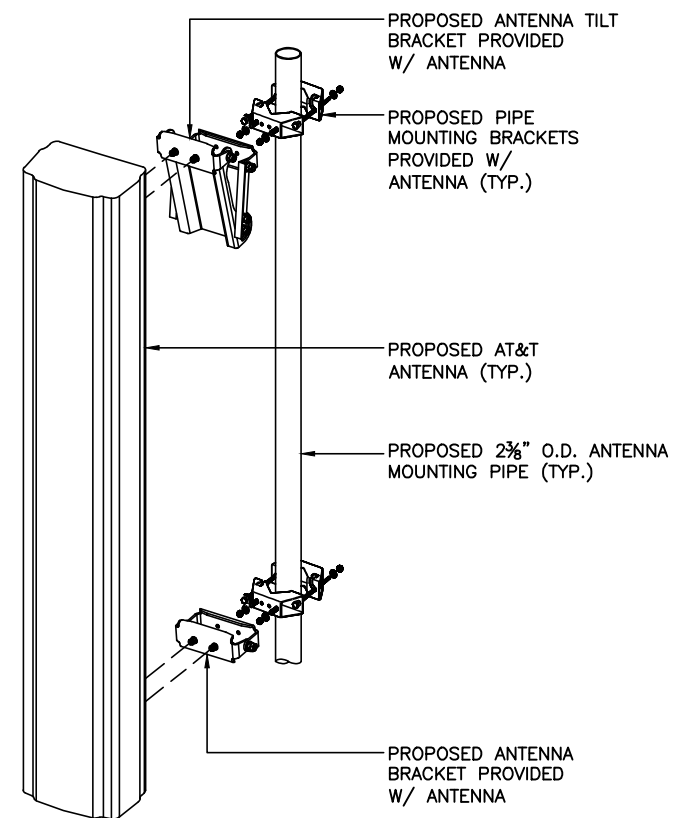
FRONT VIEW



ERICSSON MODEL AIR6449 N77D  
DIMENSIONS (LxWxD).....30.6"x15.9"x10.6"  
ANTENNA WEIGHT .....82.5 LBS

FRONT VIEW

1  
C-5 PROPOSED ANTENNA DETAIL



2  
C-5 ANTENNA MOUNTING DETAIL

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COCONUT ROAD

ANTENNA DETAILS

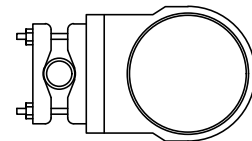
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DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

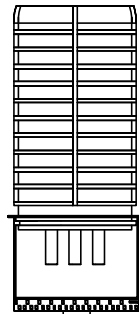
FA #: 10127369

C-5

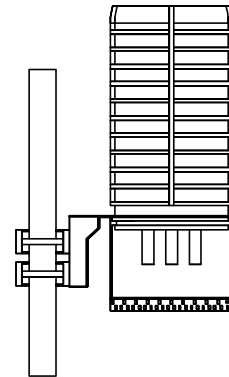


PLAN

MANUFACTURER: RAYCAP  
 MODEL: DC9-48-60-24-8C-EV  
 HEIGHT: 18.17 IN  
 DEPTH: 6.37 IN  
 WIDTH: 20.06 IN  
 WEIGHT: 16 LBS

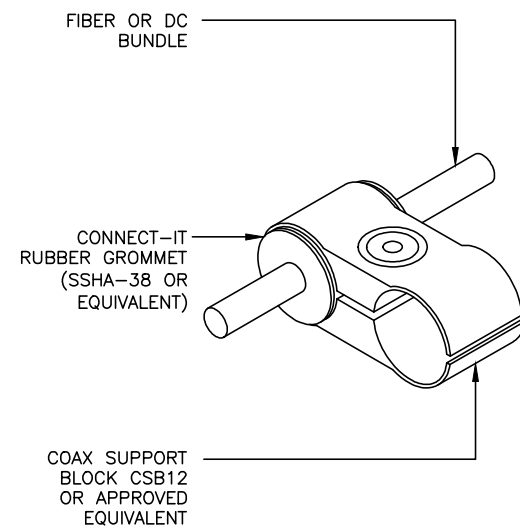


FRONT

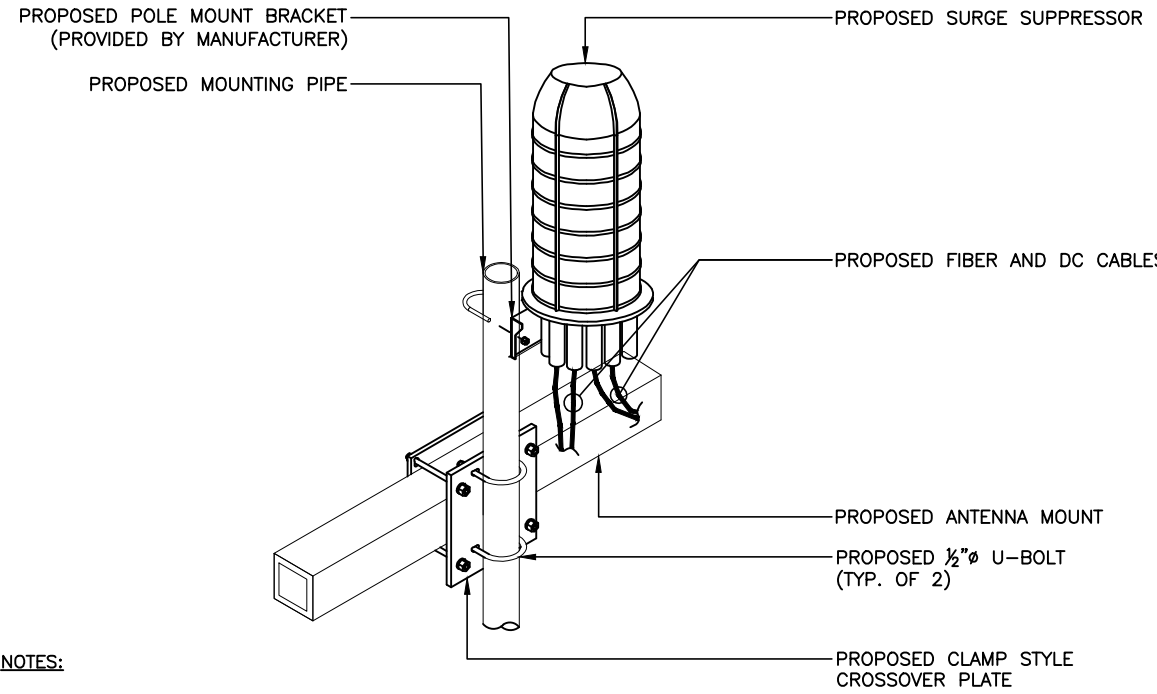


SIDE

1 PROPOSED ANTENNA DETAIL  
 C-6



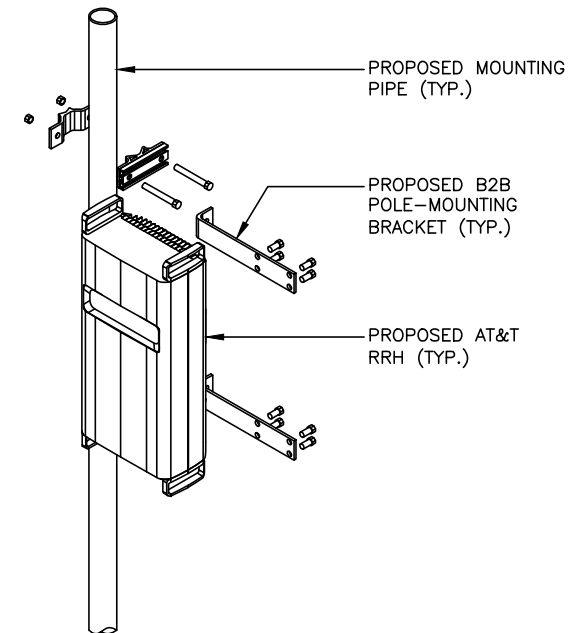
1 PROPOSED ANTENNA DETAIL  
 C-6



NOTES:

1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S.

2 ANTENNA MOUNTING DETAIL  
 C-6



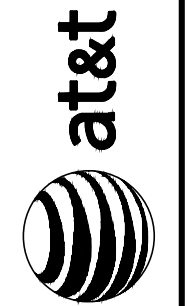
NOTES:

1. UNIT TO BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR TO TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
3. CONTRACTOR TO USE ERICSSON SXX1091946/1 B2B BRACKET OR APPROVED EQUAL.

2 ANTENNA MOUNTING DETAIL  
 C-6

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JEREMY D SHARIT PE FL LIC 75137



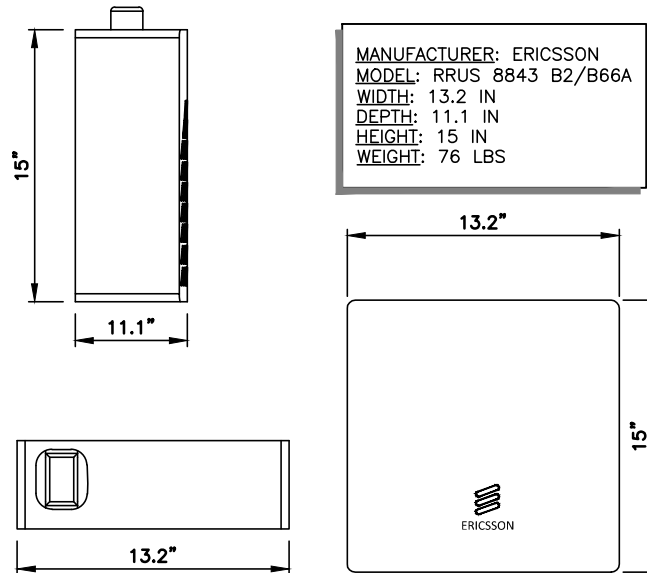
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1	01/04/22	REISSUED FOR CLIENT REV.
2	01/06/22	REISSUED FOR CLIENT REV.
3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
 DETAILS

DESIGNED: JDS  
 DRAWN: BMD  
 CHECKED: RTB  
 LAST REV. BY: BMD  
 FA #: 10127369

C-6

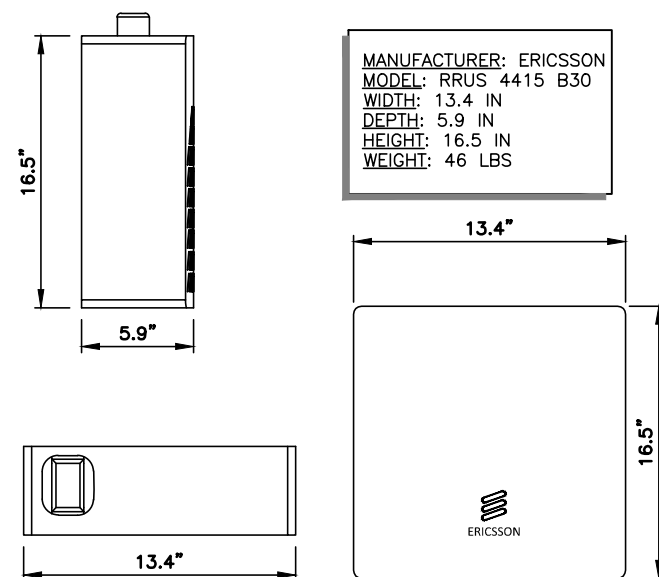




**NOTE:**

1. OUTSIDE CASE DIMENSIONS ARE SIMILAR ON DIFFERENT RRH MODELS. INTERNAL SPECS AND TECHNOLOGIES VARY PER MODEL NUMBER.

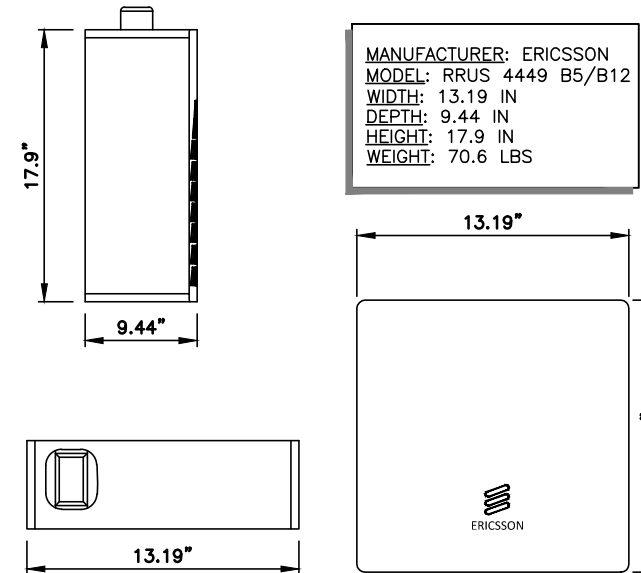
1 RRUS 8843 B2/B66A SPECIFICATIONS  
 C-7



**NOTE:**

1. OUTSIDE CASE DIMENSIONS ARE SIMILAR ON DIFFERENT RRH MODELS. INTERNAL SPECS AND TECHNOLOGIES VARY PER MODEL NUMBER.

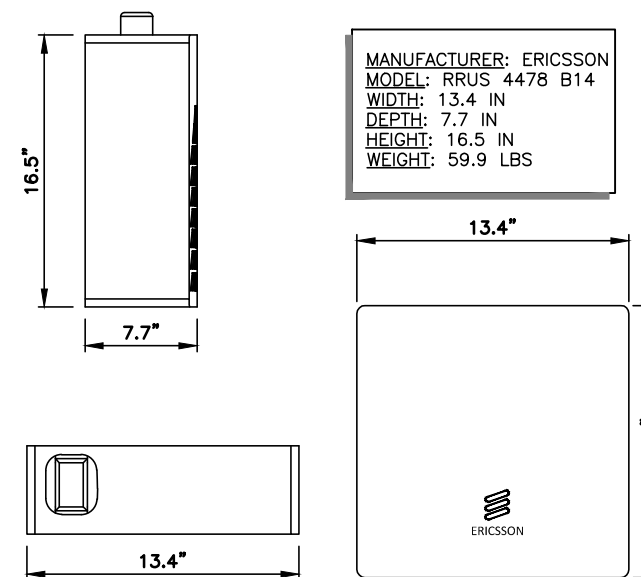
3 RRUS 4415 B30 SPECIFICATIONS  
 C-7



**NOTE:**

1. OUTSIDE CASE DIMENSIONS ARE SIMILAR ON DIFFERENT RRH MODELS. INTERNAL SPECS AND TECHNOLOGIES VARY PER MODEL NUMBER.

2 RRUS 4449 B5/B12 SPECIFICATIONS  
 C-7



**NOTE:**

1. OUTSIDE CASE DIMENSIONS ARE SIMILAR ON DIFFERENT RRH MODELS. INTERNAL SPECS AND TECHNOLOGIES VARY PER MODEL NUMBER.

4 RRUS 4478 B14 SPECIFICATIONS  
 C-7

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JEREMY D SHARIT PE FL LIC 75137

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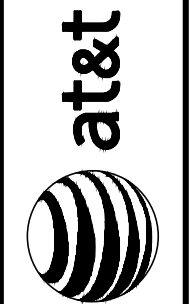
COCONUT ROAD

RRH DETAILS

DESIGNED: JDS  
 DRAWN: BMD  
 CHECKED: RTB  
 LAST REV. BY: BMD

FA #: 10127369

C-7



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COCONUT ROAD

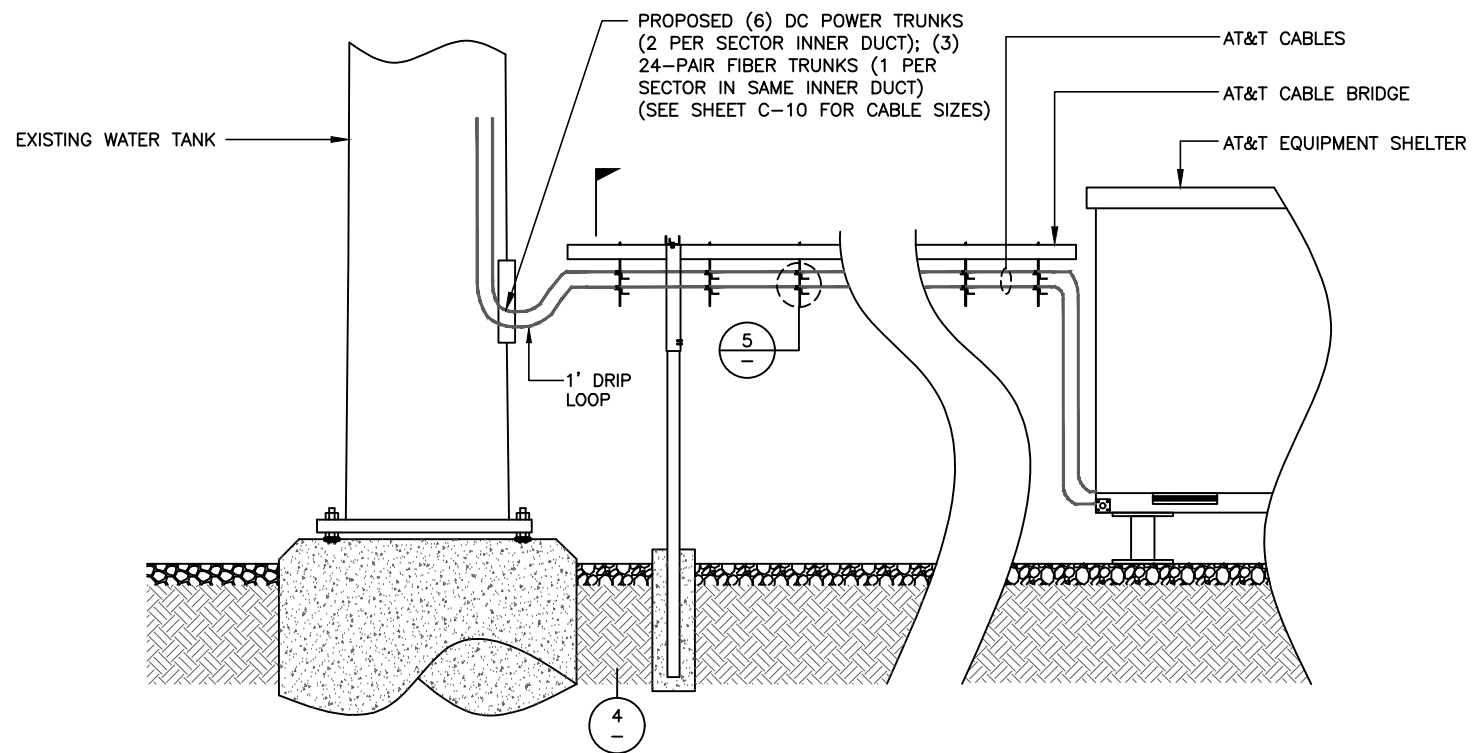
EQUIPMENT DETAILS

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369

**C-8**

JEREMY D. SHARIT, PE, FL LIC 75137



CABLE BRIDGE ELEVATION (SIDE)

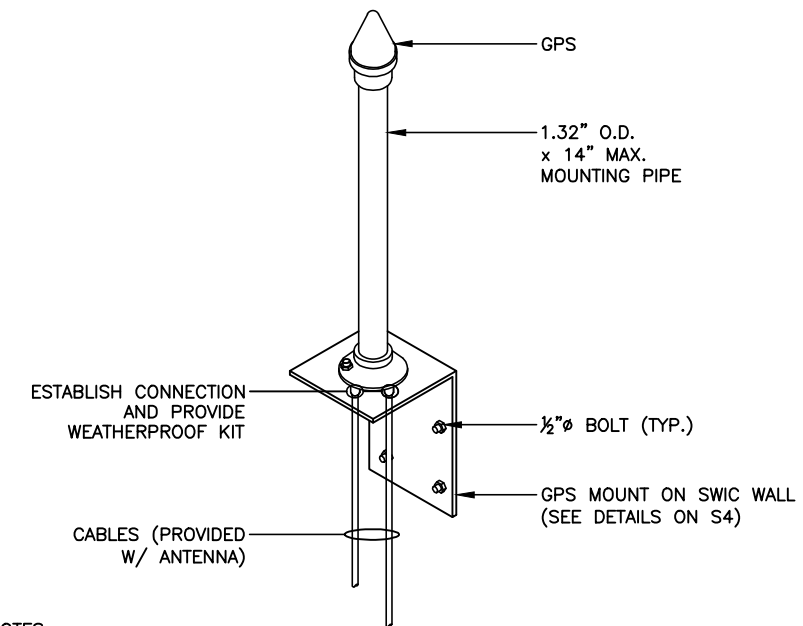
NTS

1

GPS DETAIL

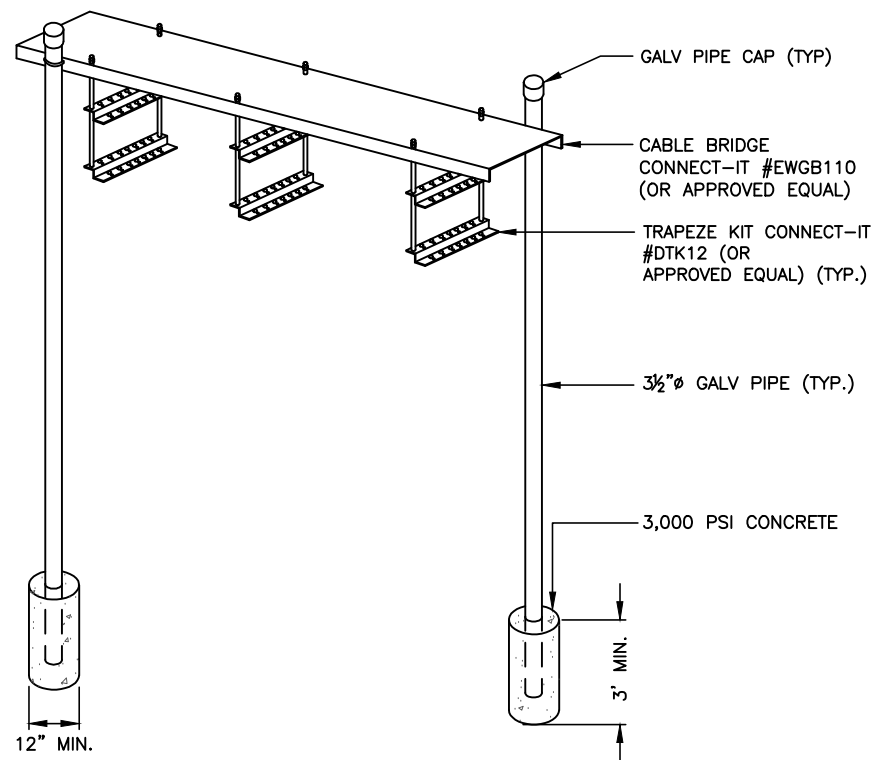
NTS

2



**NOTES:**

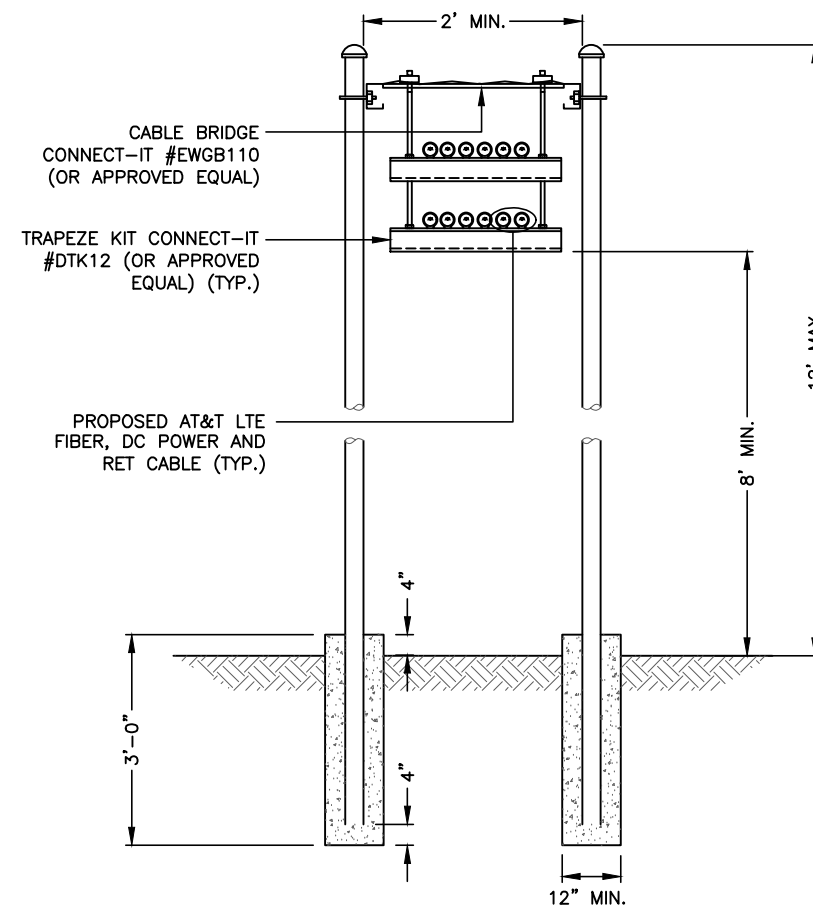
1. LOCATION OF GPS MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS.
2. ALL GPS LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS.



CABLE BRIDGE AXONOMETRIC (TYP.)

NTS

3



CABLE BRIDGE CROSS-SECTION

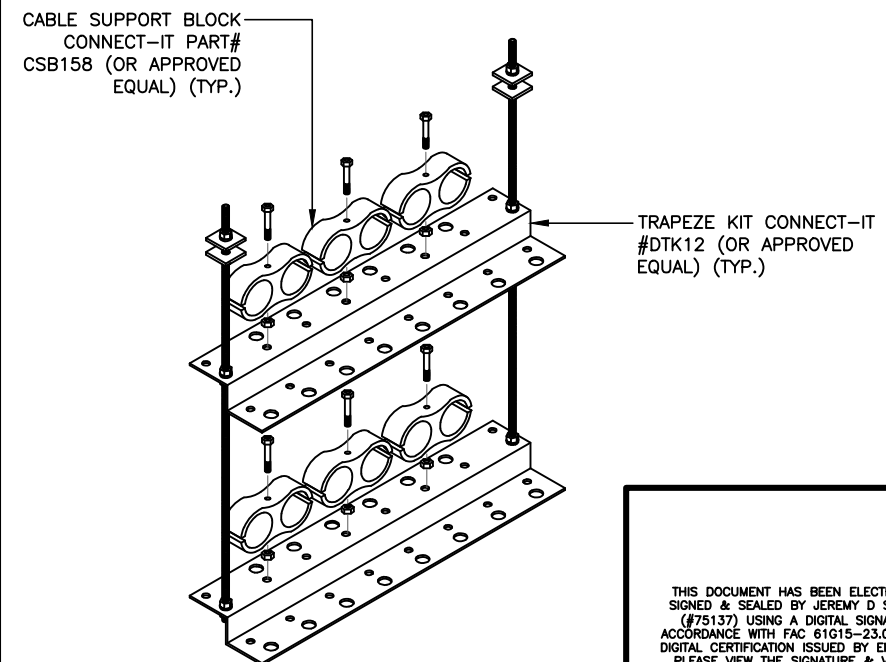
NTS

4

TRAPEZE KIT ISOMETRIC

NTS

5



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JEREMY D. SHARIT, PE, FL LIC 75137

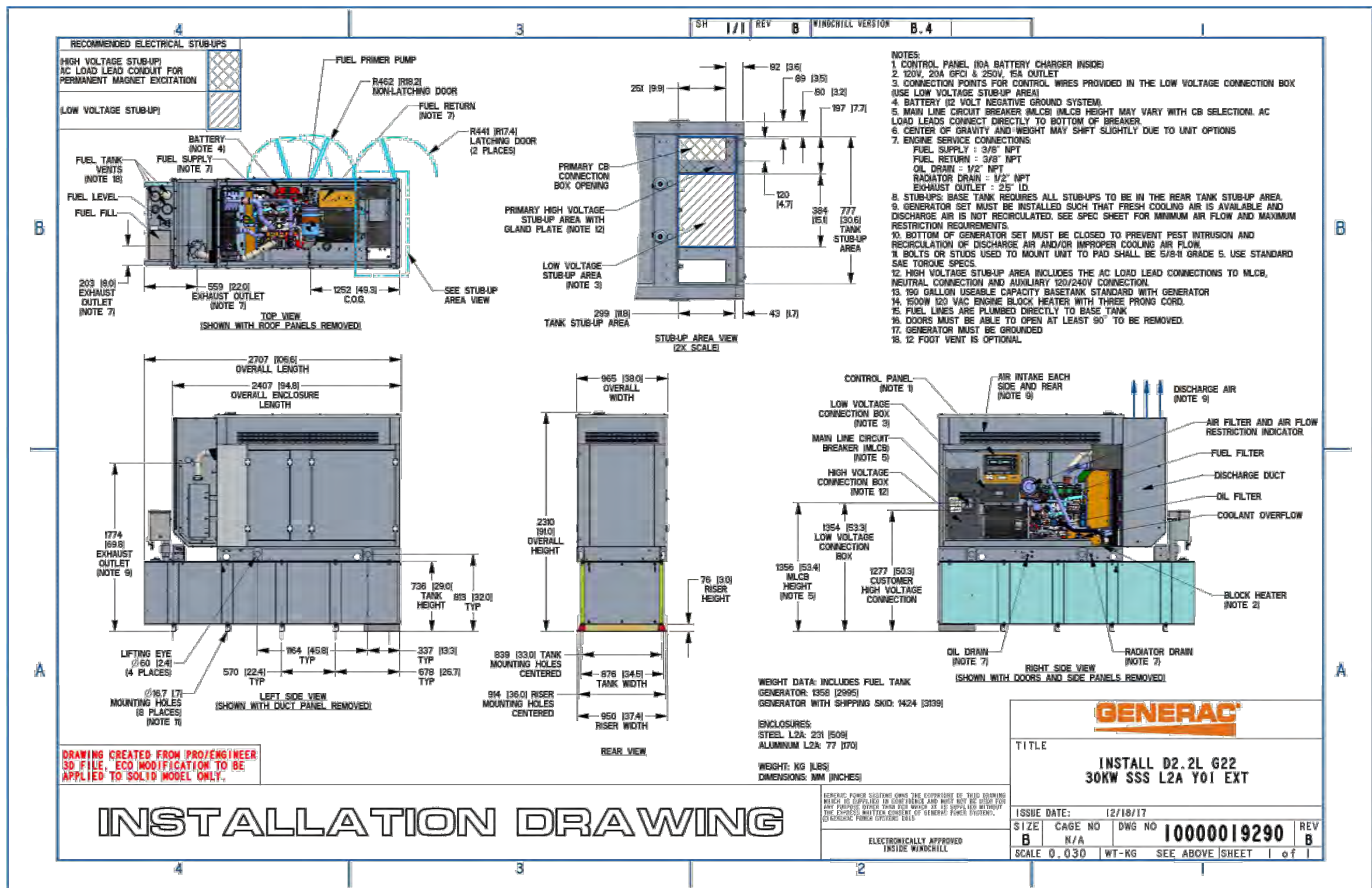
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3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
**GENERATOR DETAILS**

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

**C-9**

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AC 30KW DIESEL GENERATOR MODEL SD030

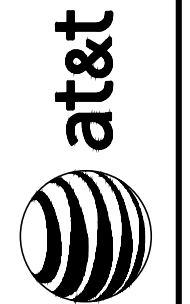
NOTE:  
THIS GENERATOR DETAIL IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. FOR EXACT CONSTRUCTION/DESIGN REQUIREMENTS, REFER TO GENERATOR SPECIFICATIONS PER THE MANUFACTURER INFORMATION.

DC / FIBER DEMARCATION BOX						
RAYCAP DC FIBER DEMARCATION BOX			CABLES			NOTES
MOUNTING HEIGHT	MODEL	QTY.	MODEL	SIZE	QTY.	LENGTH PER LINE
95'-0"	DC9-48-60-24-8C-EV	4	ROSENBERGER (24) PAIR FIBER TRUNK	0.39"	4	165'-0"
			PWRT-606-S DC POWER CABLES	0.92"	12	165'-0"



SMW #: 18-1862

**HIGH PERFORMANCE SERVICES, LLC**  
A Cassin Consulting Company  
 3001 MILLS STREET  
 LAFAYETTE, LA 70507  
 P: 850-232-7951  
 F: 337-565-2923



SECTOR	AZ.	RAD CNTR	ANTENNAS				CABLES					RRU/RRH		A2 MOD	COMPONENT			TMA						
			ANTENNA		QTY.	APPROXIMATE ANTENNA SPECS	DOWNTILT ELEC.	MECH.	MODEL	SIZE	QTY.	LENGTH/LINE	COLOR CODE	MODEL	QTY.	QTY.	MODEL	TWR QTY.	GRND QTY.	MODEL	QTY.			
			MAKE	MODEL																				
ALPHA (A1)	295°	95'-0"	KATHREIN	800372965	1	H-78.7" x W-14.8" x D-7.8"	0/2	-	RET JUMPER	5/16"	1	15'-0"	1 RED	-	-	-	-	-	-	-	-			
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	3	15'-0"	1 RED	4449 B5/B12	1	-	-	-	-	-	-	-	-	
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	1 RED	4415 B30	1	-	-	-	-	-	-	-	-	-
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 RED	-	-	-	-	-	-	-	-	-	-	-
ALPHA (A3)	295°	95'-0"	ERICSSON	AIR6649 B77	1	H-30.6" x W-15.9" x D-10.6"	0/0	-	ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	2	15'-0"	3 RED	-	-	-	-	-	-	-	-			
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	1	15'-0"	3 RED	-	-	-	-	-	-	-	-	-	-	
									RET JUMPER	5/16"	1	15'-0"	2 RED	-	-	-	-	-	-	-	-	-	-	-
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 RED	4478 B14	1	-	-	-	-	-	-	-	-	
ALPHA (A4)	295°	95'-0"	KATHREIN	800372991	1	H-77.9" x W-14.9" x D-6.5"	0/2	-	ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	2 RED	8843 B2/B66A	1	-	-	-	-	-	-			
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	2 RED	-	-	-	-	-	-	-	-	-		
									RET JUMPER	5/16"	1	15'-0"	2 RED	-	-	-	-	-	-	-	-	-	-	
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 RED	4478 B14	1	-	-	-	-	-	-	-		
BETA (B1)	45°	95'-0"	KATHREIN	800372965	1	H-78.7" x W-14.8" x D-7.8"	0/2	-	ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	3	15'-0"	1 BLUE	4449 B5/B12	1	-	-	-	-	-				
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	1 BLUE	4415 B30	1	-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 BLUE	-	-	-	-	-	-	-	-	-		
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	2	15'-0"	3 BLUE	-	-	-	-	-	-	-	-	-		
BETA (B3)	45°	95'-0"	ERICSSON	AIR6649 B77	1	H-30.6" x W-15.9" x D-10.6"	0/0	-	ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	1	15'-0"	3 BLUE	-	-	-	-	-	-	-				
									RET JUMPER	5/16"	1	15'-0"	2 BLUE	-	-	-	-	-	-	-	-			
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 BLUE	4478 B14	1	-	-	-	-	-	-			
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	2 BLUE	8843 B2/B66A	1	-	-	-	-	-	-			
BETA (B4)	45°	95'-0"	KATHREIN	800372991	1	H-77.9" x W-14.9" x D-6.5"	0/2	-	1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	2 BLUE	-	-	-	-	-	-	-				
									RET JUMPER	5/16"	1	15'-0"	2 BLUE	-	-	-	-	-	-	-	-			
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 BLUE	4478 B14	1	-	-	-	-	-	-			
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	2 BLUE	8843 B2/B66A	1	-	-	-	-	-	-			
GAMMA (G1)	110°	95'-0"	KATHREIN	800372965	1	H-78.7" x W-14.8" x D-7.8"	0/2	-	RET JUMPER	5/16"	1	15'-0"	1 GREEN	-	-	-	-	-	-	-				
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	3	15'-0"	1 GREEN	4449 B5/B12	1	-	-	-	-	-	-			
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	1 GREEN	4415 B30	1	-	-	-	-	-	-			
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 GREEN	-	-	-	-	-	-	-	-			
GAMMA (G3)	110°	95'-0"	ERICSSON	AIR6649 B77	1	H-30.6" x W-15.9" x D-10.6"	0/0	-	ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	2	15'-0"	3 GREEN	-	-	-	-	-	-	-				
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	1	15'-0"	3 GREEN	-	-	-	-	-	-	-	-			
									RET JUMPER	5/16"	1	15'-0"	2 GREEN	-	-	-	-	-	-	-	-			
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 GREEN	4478 B14	1	-	-	-	-	-	-			
GAMMA (G4)	110°	95'-0"	KATHREIN	800372991	1	H-77.9" x W-14.9" x D-6.5"	0/2	-	ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	2 GREEN	8843 B2/B66A	1	-	-	-	-	-				
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	2 GREEN	-	-	-	-	-	-	-	-			
									RET JUMPER	5/16"	1	15'-0"	2 GREEN	-	-	-	-	-	-	-	-			
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 GREEN	4478 B14	1	-	-	-	-	-	-			
DELTA (D1)	235°	95'-0"	KATHREIN	800372965	1	H-78.7" x W-14.8" x D-7.8"	0/2	-	RET JUMPER	5/16"	1	15'-0"	1 PURPLE	-	-	-	-	-	-	-				
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	3	15'-0"	1 PURPLE	4449 B5/B12	1	-	-	-	-	-	-			
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	1 PURPLE	4415 B30	1	-	-	-	-	-	-			
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 PURPLE	-	-	-	-	-	-	-	-			
DELTA (D3)	235°	95'-0"	ERICSSON	AIR6649 B77	1	H-30.6" x W-15.9" x D-10.6"	0/0	-	ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	2	15'-0"	3 PURPLE	-	-	-	-	-	-	-				
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	1	15'-0"	3 PURPLE	-	-	-	-	-	-	-	-			
									RET JUMPER	5/16"	1	15'-0"	2 PURPLE	-	-	-	-	-	-	-	-			
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 PURPLE	4478 B14	1	-	-	-	-	-	-			
DELTA (D4)	235°	95'-0"	KATHREIN	800372991	1	H-77.9" x W-14.9" x D-6.5"	0/2	-	ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	2 PURPLE	8843 B2/B66A	1	-	-	-	-	-				
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	2 PURPLE	-	-	-	-	-	-	-	-			
									RET JUMPER	5/16"	1	15'-0"	2 PURPLE	-	-	-	-	-	-	-	-			
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	2 PURPLE	4478 B14	1	-	-	-	-	-	-			

-ANTENNA AND COAX INFORMATION PROVIDED FROM THE NSB RFDS 2402810 v.4.00 SHEET UPDATED 11/22/2021  
 -CONTRACTOR TO VERIFY RF INFO WITH CLIENT PRIOR TO CONSTRUCTION.  
 -COAX LENGTHS ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.  
 -ALL COAX SHALL BE COLOR CODED AT TOP AND BOTTOM JUMPER AND AT TOP OF TOWER BOTTOM OF TOWER, AND INSIDE SHELTER ON MAIN COAX.  
 -EACH MAIN COAX SHALL HAVE CORROSION PROOF "ID TAGS" INSTALLED INSIDE THE SHELTER AT THE POINT AND AT THE ANTENNA.  
 -QUANTITIES GIVEN ARE TOTAL EXISTING AND PROPOSED.

TOTAL 1-5/8" COAX (ACTIVE)	0	0'-0"
TOTAL FIBER JUMPER	45	675'-0"
TOTAL DC JUMPER	28	420'-0"
TOTAL 1/2" COAX JUMPERS	80	800'-0"
TOTAL 5/16" RET JUMPER	8	120'-0"

\*NOTE: DENOTES RRU INSTALLED AT GROUND LEVEL (INCLUDED IN TOTALS)

TOTAL	16	0	TOTAL	0	0	TOTAL	0
-------	----	---	-------	---	---	-------	---

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2	01/06/22	REISSUED FOR CLIENT REV.
3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
 COAX/ANTENNA  
 SCHEDULE

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DESIGNED: JDS  
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 CHECKED: RTB  
 LAST REV. BY: BMD  
 FA #: 10127369

C-10

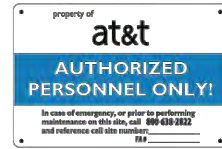
**Section 1: Standard Cell Site Signage**

AT&T owned sites require the following signs:

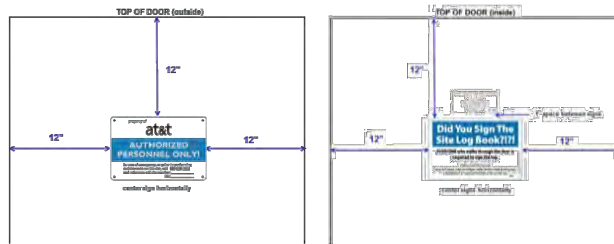
- 1. Gate sign
  - 15" x 20" aluminum gate sign



- 2. Door sign (shelter or tenant improvement room)
  - 8" x 12" door sign



Recommended layouts for main shelter door



- 3. FCC Custodial License sign (note change in address for FCC Group effective 9/2017)
  - 3" x 6.5"



- 4. No Trespassing signs



AT&T leased sites (not owned by AT&T) only require a door and FCC Custodial License sign

**Combination sign packages for shelters and WIC (Walk-In-Cabinet):**

Available from Excel Signs, item # ATT-SWIC-DC-3KIT. Includes door, log book and FCC Custodial Letter signs



**Section 4: FCC Signs**

- Antenna Structure Registration (ASR) sign
  - 8" x 12" sign

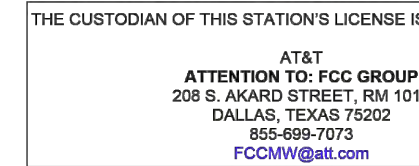


- FCC custodial letter
  - 3" x 6.5" decal sign (available through Excel Sign, part #ATT DC CUS 653)



OR

- 8.5" x 11" standard paper



**Section 6: Miscellaneous signs**

The following signs are optional and may be posted as needed:

- Log Book sign
  - Posting on inside of shelter door recommended



- Padlock decal
  - Can be affixed to padlocks to indicate an AT&T lock
  - Can also be used to label items such as electrical disconnect boxes, electrical meters, etc.
  - 1" x 8" decal if ordered from Excel Sign



- Gate signs



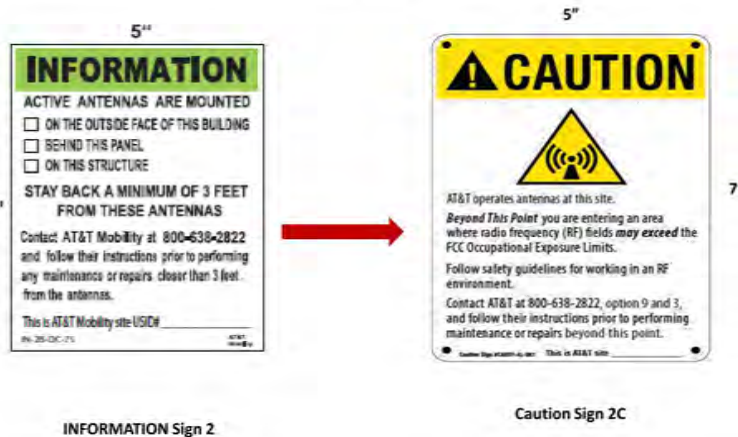
- Door Exit sign
  - May be posted on the inside of shelter doors at sites currently not equipped with an Exit sign (or emergency light/exit sign combination) above the door
  - Sign has glow in the dark letters and border to aid visibility
  - Excel part # EXT-128-DL



**NEW INFO-2 SIGN POLICY**

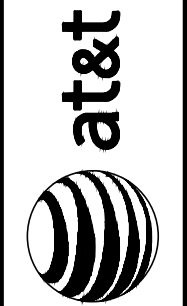
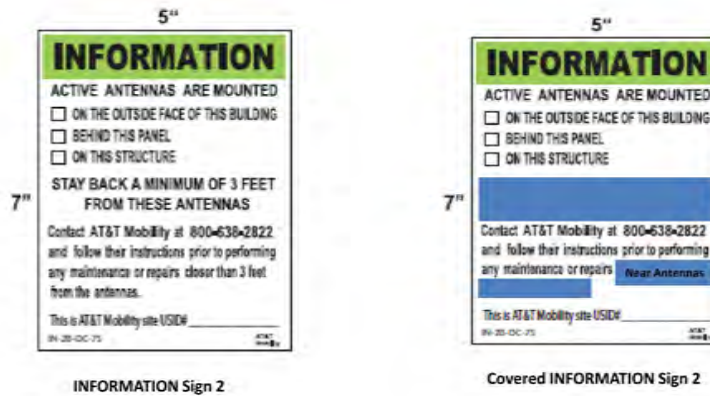
Effective immediately, information 2 signs shall be retired from AT&T sign inventory and 5"x7" Caution Sign 2C sign will be used instead

Vendors/AT&T Field technicians shall remove existing "Information Sign 2" sign/s that currently exist at the site (i.e. parapet mount) and replace them with the following "Caution Sign 2C sign which has 5"x7" dimension.



**NEW INFO-2 SIGN POLICY (Existing Historical Signs)**

If Information sign 2 sign/s are not able to be removed (i.e. existing stocks or damage risk to structure, the verbiage will be covered as example on bottom right as well as adding "Near Antenna" with a marker



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4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
SITE SIGNAGE

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

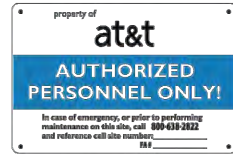
C-11

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**Section 2: Outdoor Cabinet Site Signage**

Outdoor sites require the same gate and no trespassing signs as indoor sites if owned by AT&T. In place of the door sign the cabinets must have the following signs:

- Single cabinet sites require a sign, such as a door sign, that indicates AT&T as the owner and has provisions for adding the site number along with the MNRC contact number
  - Sign must be affixed to the side of the cabinet (front, rear or side) which is most visible when approaching the cabinet from the site access point
    - 8" x 12" decal acceptable for outdoor cabinet



- Multiple cabinet sites require the sign specified in the previous bullet attached to the side of each cabinet on the end of the lineup. In addition, a sign indicating AT&T as the owner must be affixed to the front or rear of every cabinet (not both).
  - AT&T identification sign is to be affixed to the most visible area (front or rear) when approaching the cabinets from the site access point
    - 3" x 6.5" decal is acceptable for front or rear of outdoor cabinets



- Example of AT&T identification signs on outdoor cabinets (signs on each end of lineup not shown but are required)



- Diesel generators installed outdoors**, such as on a pad in a compound, shall have signs affixed to the tank on both of the long sides of the generator. For belly tank style generators, if signs will not properly adhere to the tank they may be installed on the generator housing (alternate locations shown in yellow boxes below)
  - AT&T identification sign, 8" x 12" or 3" x 6.5"
  - Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0)
  - Yellow EH&S sign, approximately 10" x 10"
  - Diesel Fuel, Combustible, No Smoking (Excel combination sign is recommended)

**Note:** for stand-alone tank style generators (not belly tank) the only required sign on the generator itself is the AT&T identification sign. All 4 signs listed above will be installed on the stand-alone fuel tank

**Belly Type Tank Style Generator**



**NOTE:** if ribs on the generator tank do not allow enough room to place signs, it is acceptable to affix the signs to the generator housing

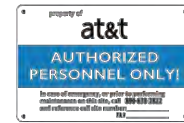
**Stand-alone Type Tank Style**



**Section 3: Fixed Generator Signage (continued)**

Per AT&T EH&S, fixed generators are required to have the following signage:

- AT&T identification sign, 8" x 12" or 3" x 6.5"



OR



- Yellow EH&S sign



- Fuel type, Combustible (Diesel), Flammable (Propane & Natural Gas) and No Smoking signs (individual signs or the Excel combination sign shown below are acceptable). Fuel tank capacity is optional



- Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0) Diesel only



**Section 3: Fixed Generator Signage (continued)**

Diesel generator signs may be purchased in a kit from Excel Signs (link below). The kit contains 2 of each required sign and provides all of the signage needed for a diesel generator site

**Excel Sign Diesel Generator Combo Pack**



- Diesel Generator Combo Pack**
- Consists of:
- (2) Diesel Fuel 15x12 Decals
  - (2) EH&S 11x11 Decals
  - (2) NFPA Pre-printed 120 15x15 Decals
  - (2) ATT Mobility 6.5x3 Logo Decals

Natural gas and propane generators signage requirements are identical to diesel generators with the exception that the Hazard Diamond sign is **not required** unless mandated by the Authority Having Jurisdiction (AHJ). Combination signs are available for both natural gas and propane through Excel sign. A combo sign pack is also available for propane generators.

**Excel Sign Propane Generator Combo Pack**



- Propane Generator Combo Pack**
- Consists of:
- (2) Propane Fuel 15x12 Decals
  - (2) EH&S 11x11 Decals
  - (2) NFPA Pre-printed 240 15x15 Decals
  - (2) ATT Mobility 6.5x3 Logo Decals

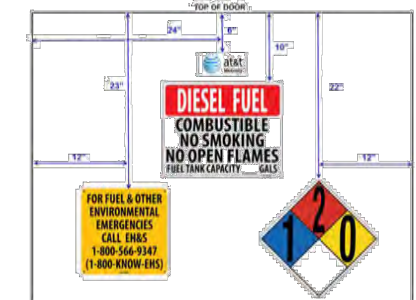
**Section 3: Fixed Generator Signage (continued)**

Per AT&T EH&S, fixed generators are required to have signage posted as follows:

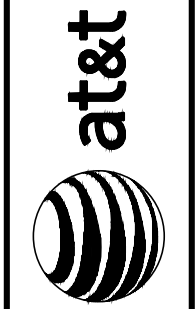
- Diesel generators installed indoors**, such as a shelter generator room, shall have signs affixed to the entrance door to the room the generator is housed in and one of the long sides of the generator tank. If signs will not properly adhere to the tank they may be installed on the end of the generator housing (yellow box on far right photo below)
  - AT&T identification sign, 8" x 12" or 3" x 6.5"
  - Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0)
  - Yellow EH&S sign
  - Diesel Fuel, Combustible, No Smoking signs (Excel combination sign is recommended)



**Recommended layout for a 4' x 7' generator room door**



SMW #: 18-1862



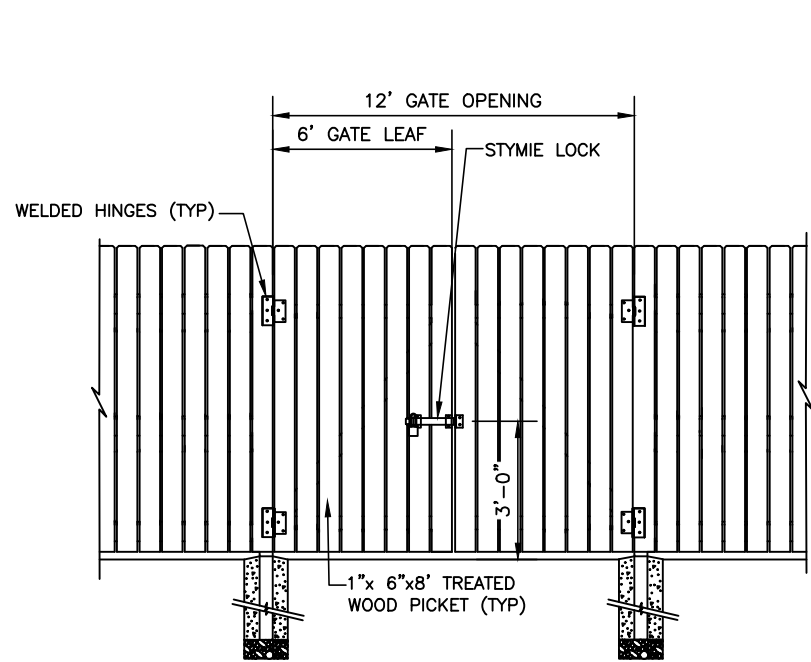
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COCONUT ROAD  
CABINET & GENERATOR  
SIGNAGE

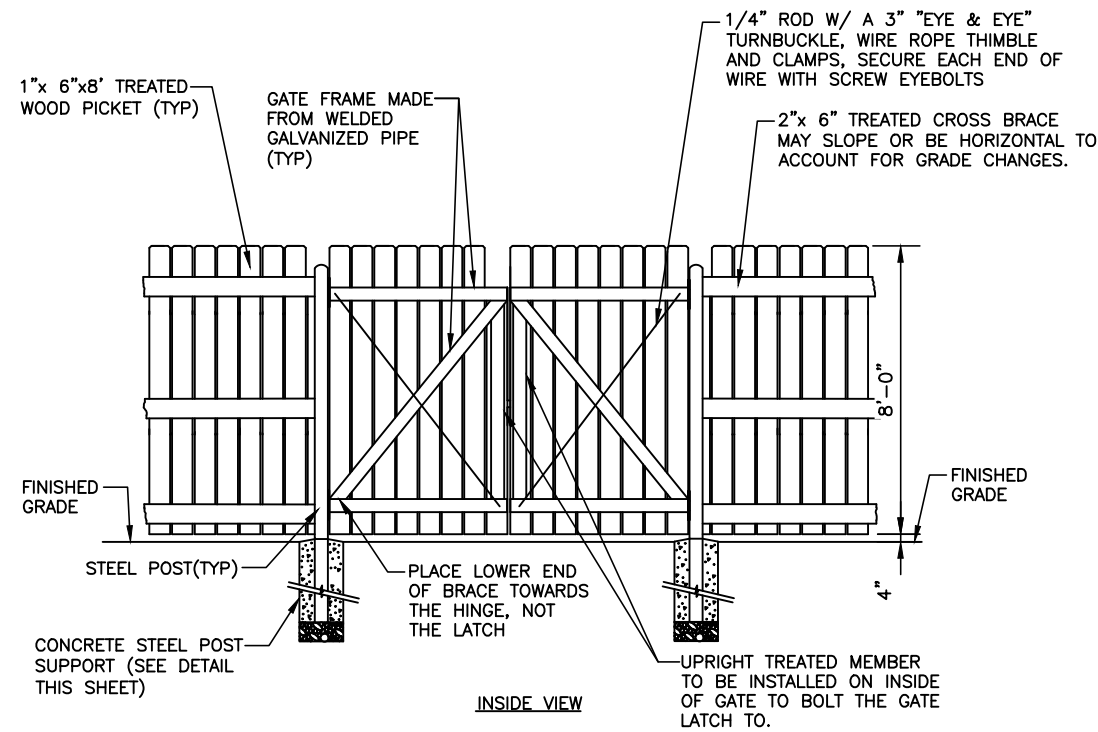
DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
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C-11.1

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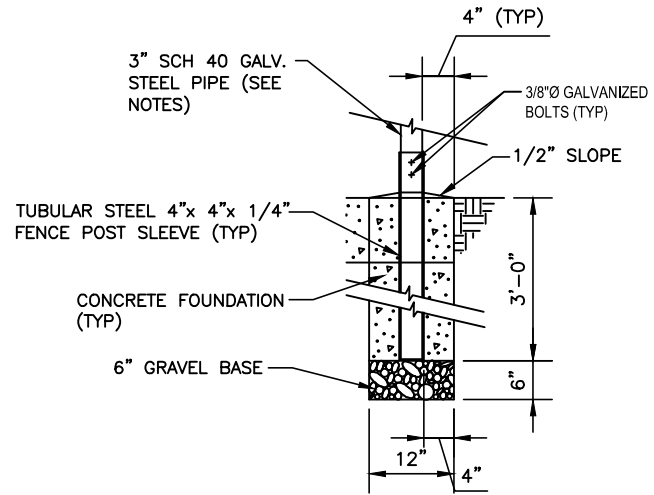


OUTSIDE VIEW



INSIDE VIEW

- NOTES:
- TANGENT POSTS TO BE 3" SCH 40 GALV. STEEL PIPE.
  - CORNER AND GATE POSTS TO BE 3" SCH 40 GALV STEEL PIPE.



2 GRAVEL POST SUPPORT DETAIL  
C-12 NOT TO SCALE

1 12' WOODEN GATE DETAIL  
C-12 NOT TO SCALE

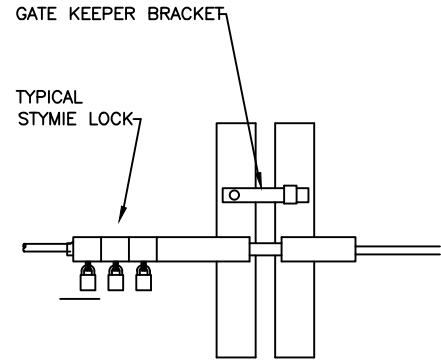
ALL POST AND GATE POST SHALL BE 3" SCH 40

**STANDARD COMBINATION LOCK SPEC**  
ALL LOCK SHOULD BE MARINE GRADE BRASS LOCK WITH STAINLESS STEEL SHACKLE, SOLID BRASS BODY PROVIDES STRENGTH AND CORROSION RESISTANCE.

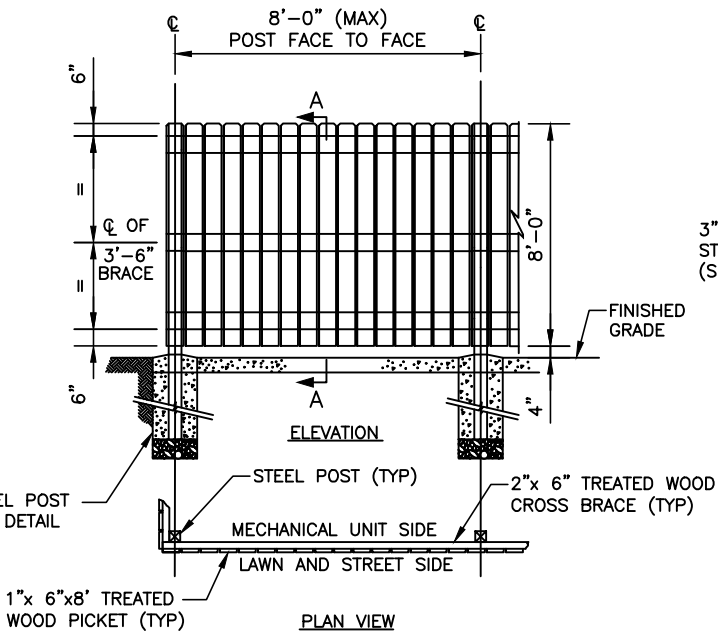
**STAINLESS STEEL SHACKLES**  
HACKSAWS, BOLT CUTTERS, AND CORROSIVE WEATHER CONDITIONS  
ALL LOCKS SHOULD BE A PROGRAMMABLE COMBINATION LOCK THAT IS STRONG, DURABLE AND HIGHLY WEATHER RESISTANT

THE FOLLOWING LOCK IS APPROVED BY PTD TO BE USED ON SITES (BUT IS NOT LIMITED TO THE ONLY MANF. OF THIS TYPE OF LOCK)

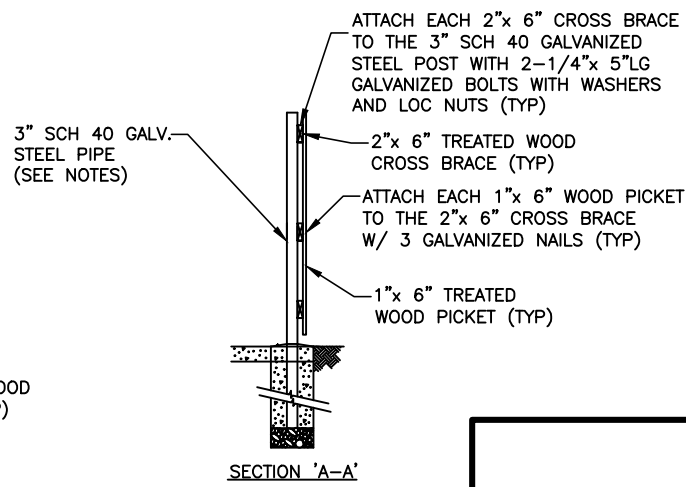
**PART NUMBERS:**  
ABUS 180/HB 50-63 WITH 2-1/4" MARINE GRADE WITH 4 DIALS.  
ABUS 180 COMBINATION 1" MARINE GRADE WITH 4 DIALS.



3 STYMIE LOCK DETAIL  
C-12 NOT TO SCALE



PLAN VIEW



SECTION 'A-A'

4 TYPICAL WOODEN FENCE DETAIL  
C-12 NOT TO SCALE

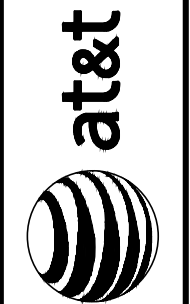
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COCONUT ROAD  
FENCE DETAILS

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C-12



**CONCRETE:**

- ALL CONCRETE SHALL BE 5,000 PSI MIN. AFTER 28 DAYS AND ALL WORK SHALL CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND TO THE PROJECT SPECIFICATIONS. UNLESS OTHERWISE SPECIFIED.
- READY-MIX CONCRETE SUPPLIERS SHALL BE NRMCA-CERTIFIED.
- ALL CONCRETE SHALL BE NORMAL DENSITY CONCRETE WITH A MAXIMUM SLUMP OF 4 INCHES AND A MAXIMUM AGGREGATE SIZE OF 3/4 INCH.
- NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
- DO NOT USE CHLORIDE-CONTAINING ADMIXTURES.
- HOT WEATHER CONCRETE: COMPLY WITH ACI 305R.
- REINFORCING OF ALL CONCRETE MEMBERS SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER:

INCHES	
3	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
2	CONCRETE EXPOSED TO EARTH OR WEATHER:
1 1/2	#6 THROUGH #18 BARS
	#5 BAR OR SMALLER
1 1/2	CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
	SLABS AND WALLS
1	#14 AND #18 BARS
	COLUMNS
1 1/2	#11 BAR AND SMALLER
	PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS

- UNLESS OTHERWISE NOTED, PROVIDE A MINIMUM BEARING LENGTH OF 4 INCHES FOR ALL REINFORCED CONCRETE SLABS.
- PROVIDE CHAMFERS, REVEALS, REGLETS, RECESSES AND THE LIKE AS SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- NO HOLES OR SLEEVES SHALL BE MADE THROUGH CONCRETE WORK OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- PROVIDE CAST-IN-PLACE CONCRETE FOR MECHANICAL AND ELECTRICAL DIVISIONS INCLUDING BUT NOT LIMITED TO: EQUIPMENT BASES, HOUSEKEEPING PADS, CURBS, PITS, UNDERGROUND DUCTBANKS.
- ALL FORMWORK OFFSET TOLERANCES (PER ACI SP-117) TO BE CLASS A.
- FLOOR SLAB TOLERANCE TO ASTM E1155: SPECIFIED OVERALL MINIMUM VALUE OF FLATNESS Ff=25 WITH LOCAL MINIMUM Ff=17, AND MINIMUM VALUE OF LEVELNESS FI=20 WITH LOCAL MINIMUM FI=15. MEASURE FI AND Ff WITHIN 72 HOURS OF SLAB CONSTRUCTION.

**REINFORCING STEEL:**

- REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED BARS.
- WELDED WIRE MESH: TO ASTM A185. PROVIDE IN FLAT SHEETS ONLY. VERTICAL PLACEMENT TOLERANCE TO BE 3/8 INCH.
- REINFORCING STEEL TO BE DETAILED, FABRICATED, BENT AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 315.
- THE OWNER SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ALL ACCESSORIES, BOLSTERS, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT UNLESS INDICATED OTHERWISE.
- WHERE INDICATED, REINFORCING BARS SHALL BE WELDED IN ACCORDANCE WITH AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL".
- IN REINFORCED MASONRY WALLS, COLUMNS AND BEAMS, REINFORCING SHALL BE HELD IN PLACE WITH "DUR-O-WALL" REBAR POSITIONERS, OR APPROVED EQUAL, PRIOR TO GROUTING.
- IN SLABS WHERE REINFORCING IS SHOWN IN ONE DIRECTION ONLY, PROVIDE INDICATED TEMPERATURE REINFORCEMENT AT 90 DEGREES TO PRINCIPAL REINFORCEMENT.
- LAP SPLICES:
  - SUBMIT PROPOSED LOCATIONS OF LAP SPLICES FOR APPROVAL.
  - CONCRETE: PROVIDE CLASS B TENSION LAP SPICES UNLESS NOTED OTHERWISE.
  - MASONRY: LAP SPLICE BARS A MINIMUM OF 40 BAR DIAMETERS UNLESS NOTED OTHERWISE.
  - WELDED WIRE MESH - MINIMUM LAP 8 INCHES, MEASURED BETWEEN OUTERMOST CROSS-WIRES OF EACH SHEET.
- ENSURE THAT A MINIMUM OF 2 - #5 BARS ARE PROVIDED CONTINUOUSLY AT ALL SLAB EDGES BY ADJUSTING BAR LENGTHS OR PROVIDING ADDITIONAL TOP/BOTTOM EDGE BARS AS REQUIRED.
- PROVIDE 1 - #5 NOSING BAR FOR ALL SILLS, LEDGES, CURBS, PADS AND STEPS UNLESS OTHERWISE INDICATED.

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COCONUT ROAD

GENERAL  
STRUCTURAL NOTES

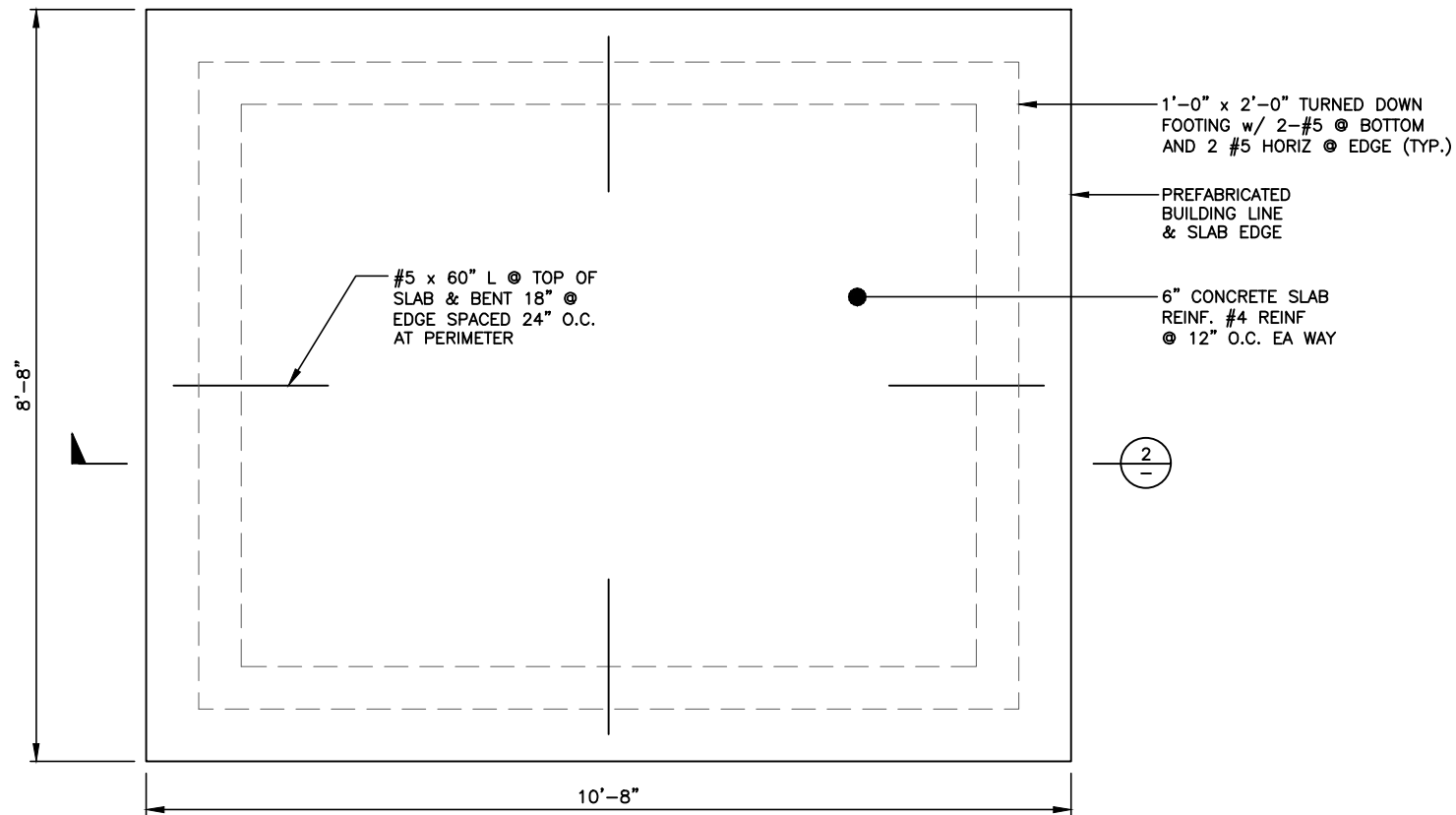
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FA #: 10127369

S-1



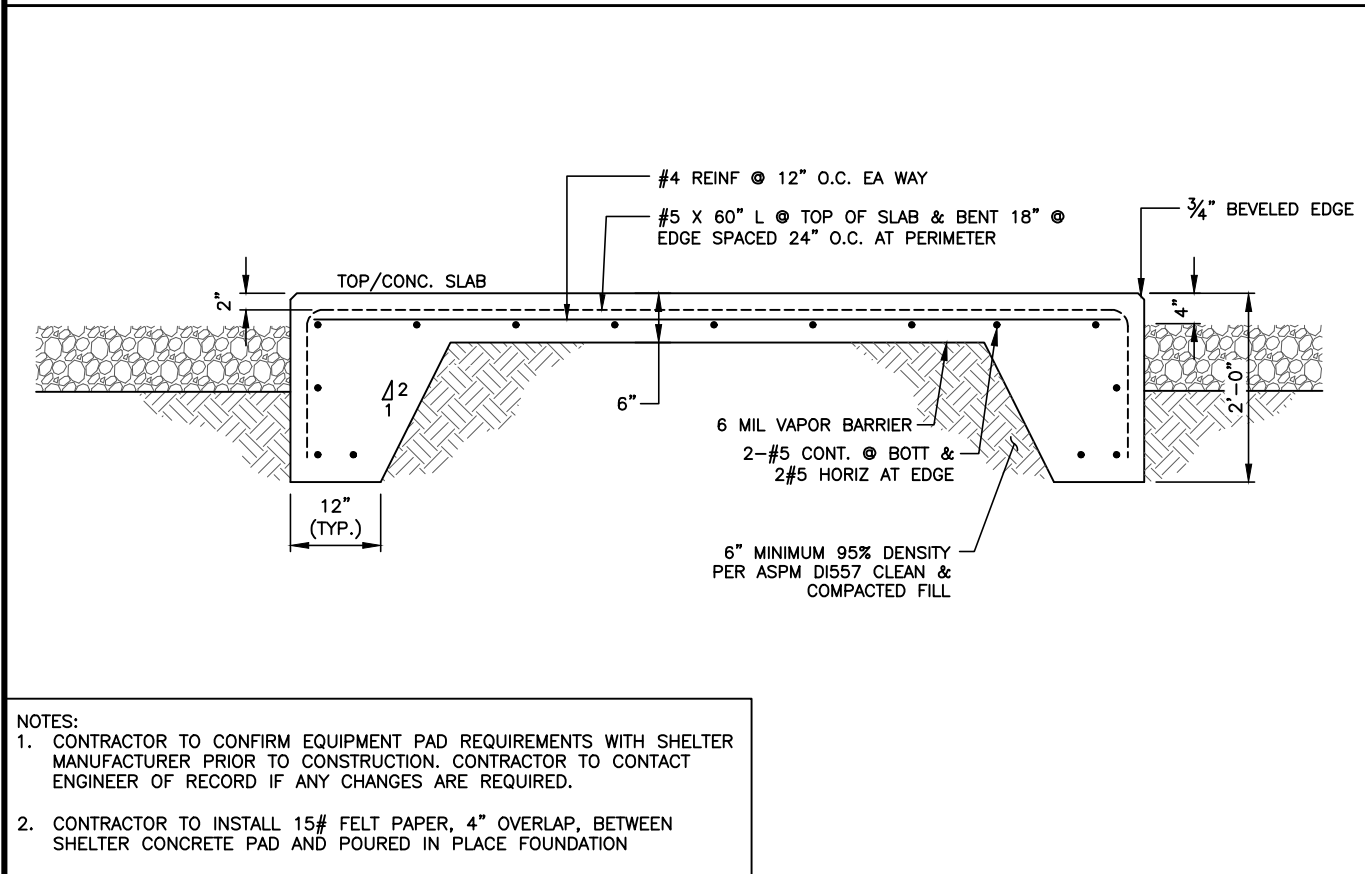


NOTE:  
CONTRACTOR TO VERIFY SHELTER SPECIFICATIONS/LOADING WITH VERTIV INDUSTRIES, INC. PRIOR TO CONSTRUCTION.

SHELTER FOUNDATION PLAN

NTS 1

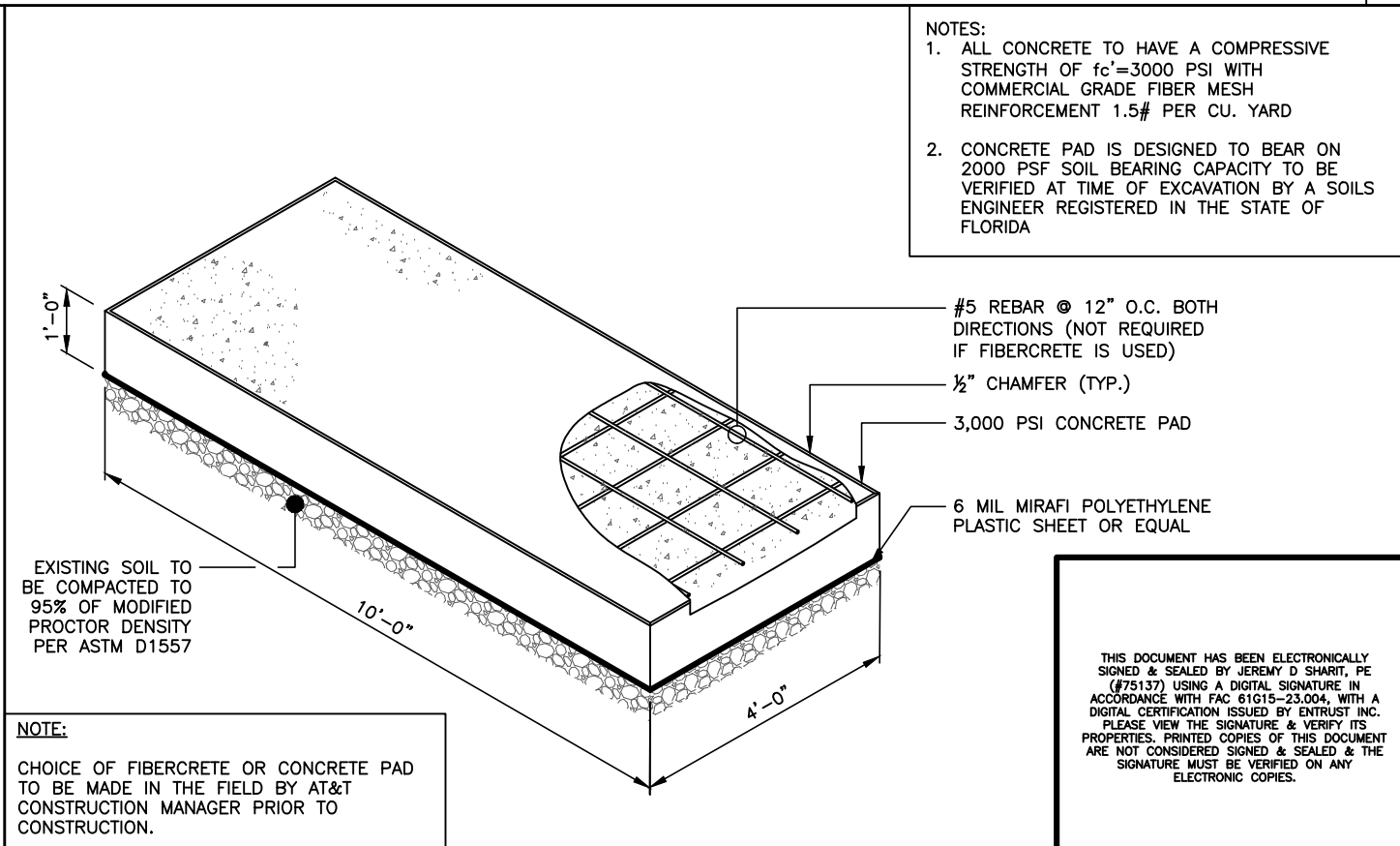
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NOTES:  
1. CONTRACTOR TO CONFIRM EQUIPMENT PAD REQUIREMENTS WITH SHELTER MANUFACTURER PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF ANY CHANGES ARE REQUIRED.  
2. CONTRACTOR TO INSTALL 15# FELT PAPER, 4" OVERLAP, BETWEEN SHELTER CONCRETE PAD AND POURED IN PLACE FOUNDATION

FOUNDATION SECTION

NTS 2



NOTE:  
CHOICE OF FIBERCRETE OR CONCRETE PAD TO BE MADE IN THE FIELD BY AT&T CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

NOTES:  
1. ALL CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF  $f_c' = 3000$  PSI WITH COMMERCIAL GRADE FIBER MESH REINFORCEMENT 1.5# PER CU. YARD  
2. CONCRETE PAD IS DESIGNED TO BEAR ON 2000 PSF SOIL BEARING CAPACITY TO BE VERIFIED AT TIME OF EXCAVATION BY A SOILS ENGINEER REGISTERED IN THE STATE OF FLORIDA

GENERATOR PAD DETAILS

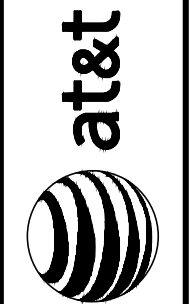
NTS 3

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COCONUT ROAD  
FOUNDATION  
DETAILS

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

S-2

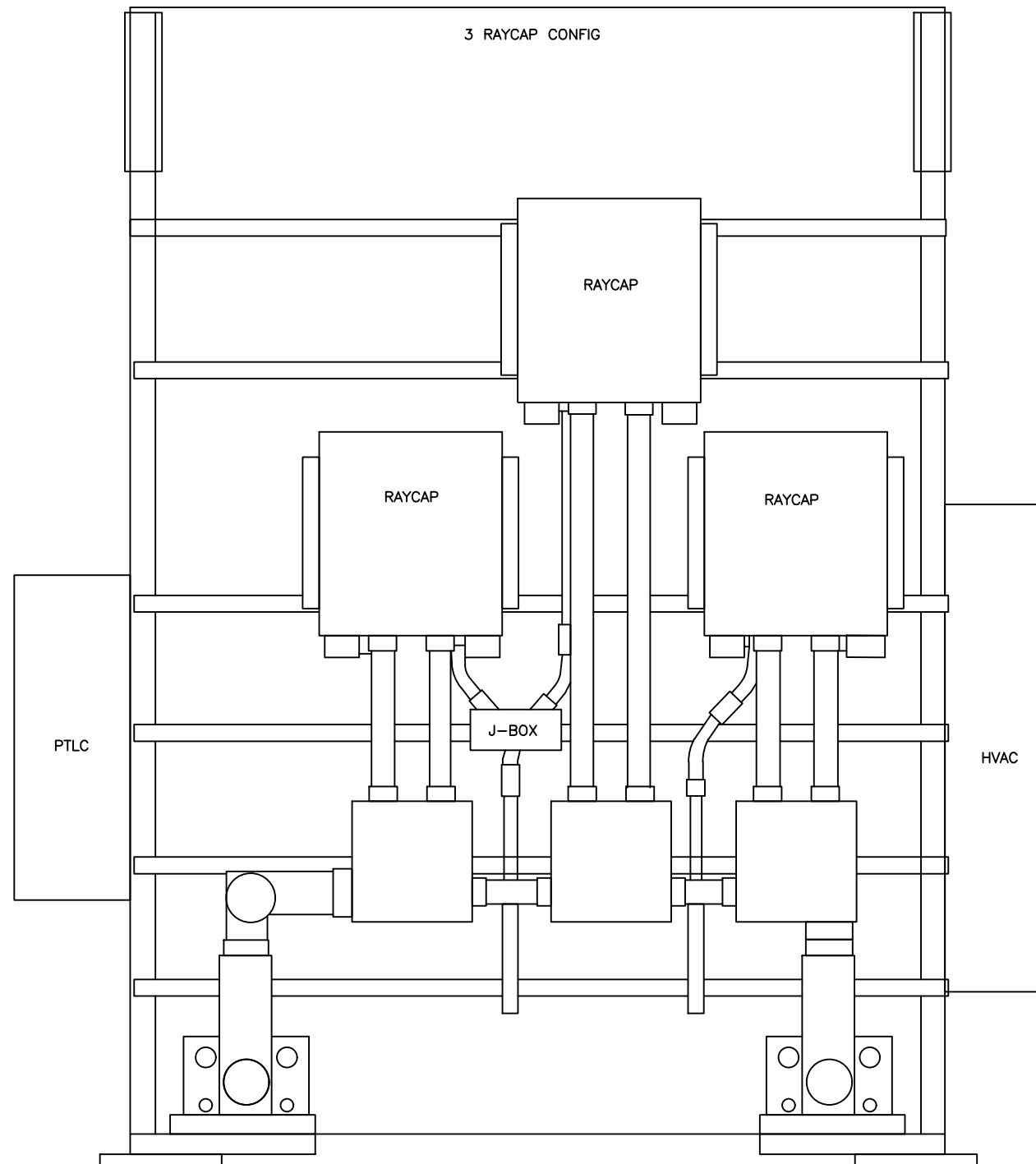
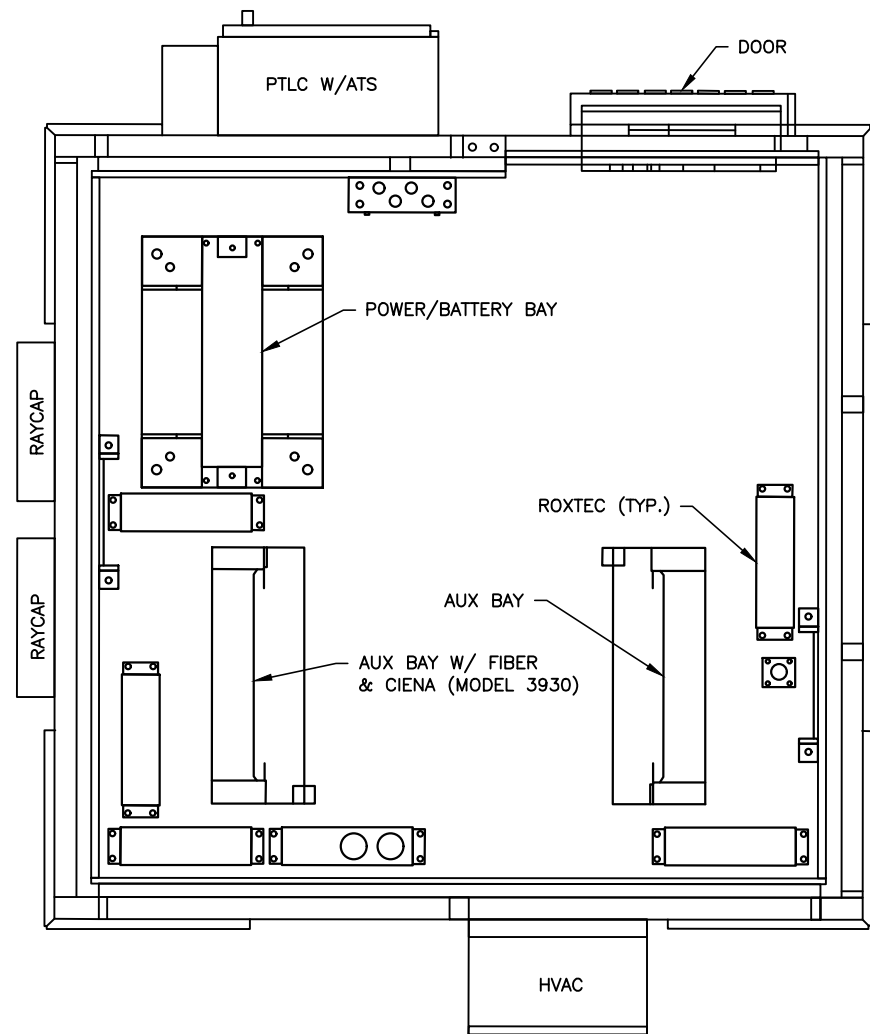


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COCONUT ROAD  
**SWIC EQUIPMENT DETAILS**

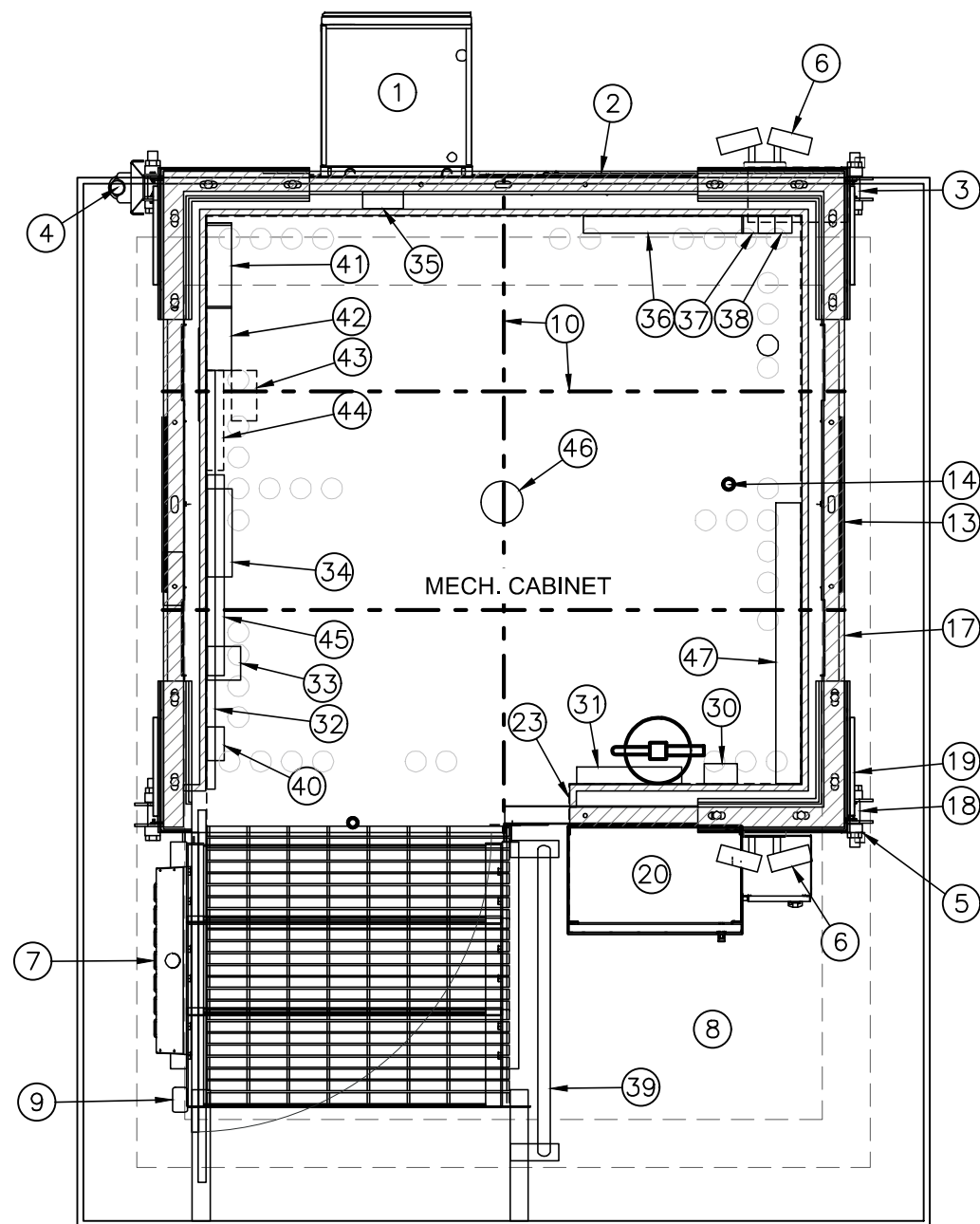
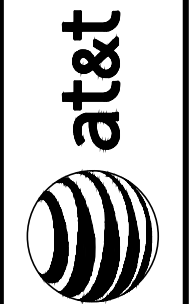
DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

**S-3**



- NOTES:**
1. CONTRACTOR TO REFER TO CURRENT SHELTER MATRIX FOR ALL SHELTER MOUNTED EQUIPMENT, MODEL NUMBERS AND PLACEMENT.
  2. CONTRACTOR TO COORDINATE EXACT EQUIPMENT LOCATION WITHIN SHELTER WITH AT&T CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

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**KEY NOTES:**

1. MARVAIR HVAC UNIT
2. EXHAUST GRILL WITH MECHANICAL DAMPENER
3. LIFTING TAB
4. GPS KIT
5. UNISTRUT
6. MOTION SENSOR LIGHT
7. DAC AIR INTAKE
8. SITE-BUILT FOUNDATION BY OTHERS. ALL FOUNDATION SYSTEMS SHALL EXTEND BELOW FROST DEPTH. SPECIFIC MOUNTING KIT SHALL BE PRESCRIBED DEPENDING ON SITE CONDITION.
9. KABA SIMPLEX 1000 MECHANICAL PUSHBUTTON LOCK AND ROUND NOB ASSEMBLY AND SECURITY KEY PAD.
10. FLOOR CONSTRUCTION DIVISION LINE
11. ROOF MODULES BOLTED TO TOP OF WALLPANELS USING 1/4" - 20 WASHER HEAD SCREWS AND HEX SHAPED INSERTS.
12. LOW PROFILE PLUG-IN SMOKE DETECTOR.
13. FLOOR MODULES AND SIDE CHANNELS ASSEMBLED USING 3/8" HARDWARE, CARRIAGE BOLT, FLAT WASHER, LOCK WASHER AND HEX NUT; 300 SERIES STAINLESS STEEL. SEE FLOOR PLAN FOR LAYOUT SPACING.
14. FLOOR MODULES BOLTED TOGETHER WITH HORIZONTAL CHANNELS BOLTED AROUND PERIMETER.
15. ROOF PANELS ASSEMBLED USING 10-32 HARDWARE, SELF DRILLING SCREW AND RUBBERIZED WASHER; 300 STAINLESS STEEL.
16. ROOF MADE UP OF 5 PANELS. FLAT GASKED ALONG ALL ATTACHMENT SEAMS UNDERNEATH AND ATTACHED USING SCREWS AND RUBBERIZED WASHERS. INSULATION PANELS LAID INSIDE THE CEILING MODULES.
17. WALLS ASSEMBLED USING 1/4" HARDWARE, HEX BOLT, FLAT WASHER, LOCK WASHER AND HEX NUT; 300 SERIES STAINLESS STEEL.
18. VERTICAL BRACKETS BOLT TO THE BASE AND INTO THE CEILING MODULES.
19. PANELS SEALED USING CONTINUOUS STRIP OF FLAT GASKET.
20. POWER TRANSFER LOAD CENTER (APPROX. 176 LBS.)
21. WEATHER SCREEN.
22. CABLE ENTRY PLATE.
23. STATE OF FLORIDA SHIPPING INSIGNIA, PER CODE REQUIREMENTS.
24. EXTERNAL GROUND BAR.
25. STAIR TO GRADE.
26. NOT USED
27. NOT USED
28. DOOR FRAME MADE UP OF 14 GAGE STEEL (G-90). DOOR OPENING IS 36"x84".
29. STAINLESS STEEL SECURITY HINGES WITH NON REMOVABLE PINS.
30. LIGHT SWITCH.
32. TEMPERATURE AND HUMIDITY SENSOR.
33. COMPUTER TRAY
34. ALARM BLOCKS
35. HVAC JUNCTION BOX
36. SCHROFFTECH THERMAL CONTROLLER
37. DC GENERATOR CABLE TIE POINTS
38. EXTERIOR LIGHT JUNCTION BOX
39. HANDRAIL PER DETAILS
40. (2) AC DUPLEX OUTLETS (20A)
41. LADDER RACK
42. ASSEMBLY RACK
43. ROXTEC, 24/24
44. MASTER GROUND BAR
45. TELCO BOARD
46. SMOKE DETECTOR
47. RELAY RACK

#	DATE	DESCRIPTION
0	12/20/21	ISSUED FOR CLIENT REV.
1	01/04/22	REISSUED FOR CLIENT REV.
2	01/06/22	REISSUED FOR CLIENT REV.
3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
**SWIC EQUIPMENT LAYOUT**

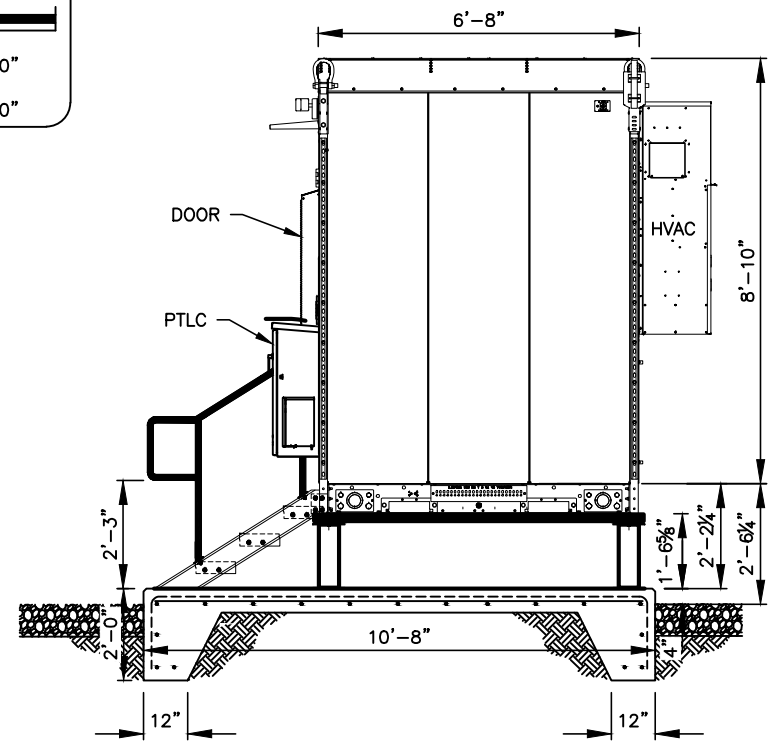
DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

DETAILS PROVIDED BY AT&T FOR THE PURPOSE OF USE IN THESE CONSTRUCTION DRAWINGS. CONTACT AT&T FOR COMPLETE INFORMATION AND GUIDELINES FOR INSTALLATION OF EQUIPMENT CABINET AND GENERATOR.

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4' 0' 2' 4'

FOR 24"x36" DRAWINGS  
GRAPHIC SCALE: 1/2" = 1'-0"  
FOR 11"x17" DRAWINGS  
GRAPHIC SCALE: 1/4" = 1'-0"

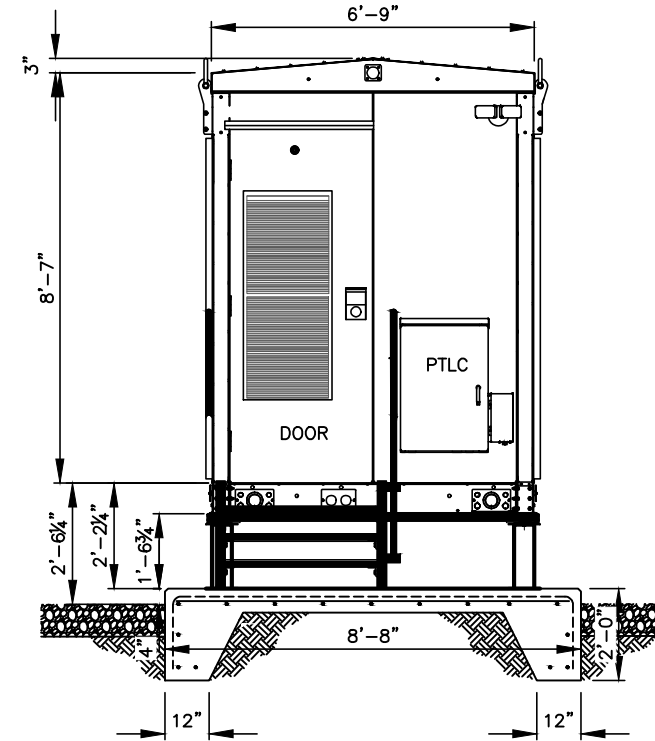


RIGHT SWIC ELEVATION

SCALE AS NOTED 1

4' 0' 2' 4'

FOR 24"x36" DRAWINGS  
GRAPHIC SCALE: 1/2" = 1'-0"  
FOR 11"x17" DRAWINGS  
GRAPHIC SCALE: 1/4" = 1'-0"

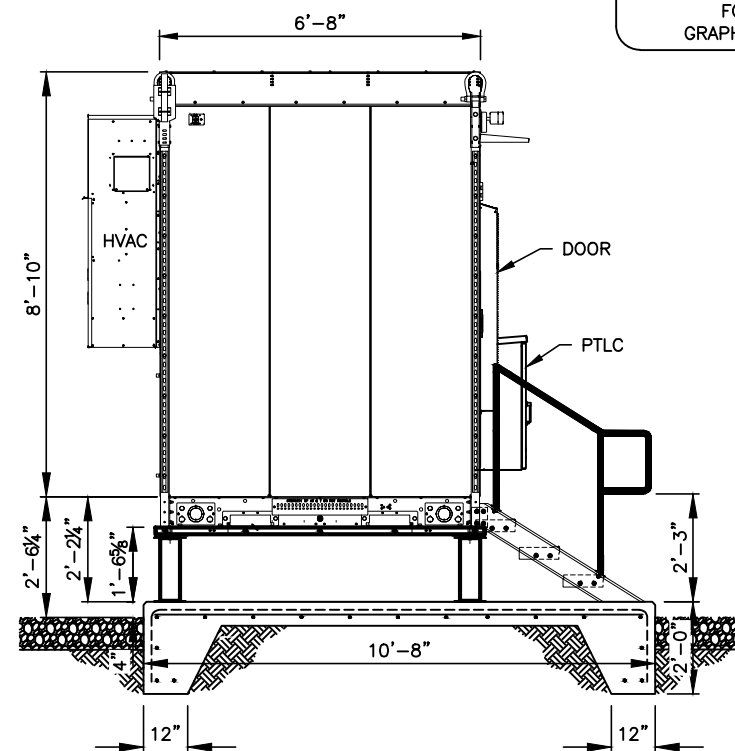


FRONT SWIC ELEVATION

SCALE AS NOTED 2

4' 0' 2' 4'

FOR 24"x36" DRAWINGS  
GRAPHIC SCALE: 1/2" = 1'-0"  
FOR 11"x17" DRAWINGS  
GRAPHIC SCALE: 1/4" = 1'-0"

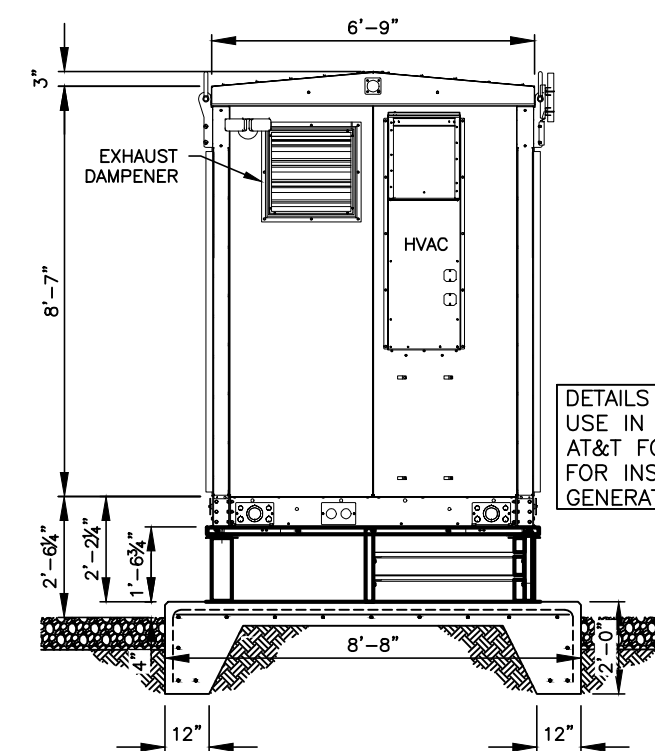


LEFT SWIC ELEVATION

SCALE AS NOTED 3

4' 0' 2' 4'

FOR 24"x36" DRAWINGS  
GRAPHIC SCALE: 1/2" = 1'-0"  
FOR 11"x17" DRAWINGS  
GRAPHIC SCALE: 1/4" = 1'-0"



REAR SWIC ELEVATION

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SCALE AS NOTED 4

**SMW**  
ENGINEERING GROUP, INC.  
SMW # 18-1862

**HIGH PERFORMANCE SERVICES, LLC**  
A Casella Consolidated Company  
3001 MILLS STREET  
LAFAYETTE, LA 70507  
P: 850-232-7951  
F: 337-565-2923



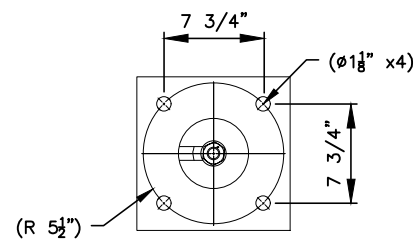
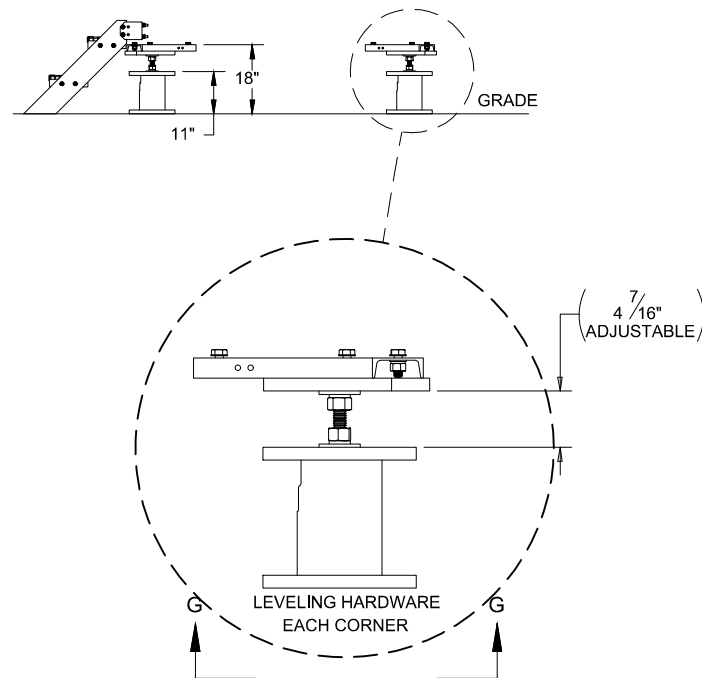
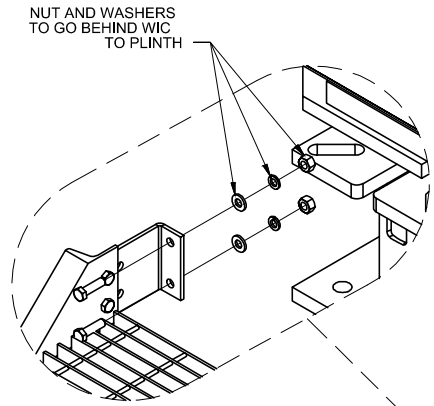
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4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
SWIC ELEVATION  
DETAILS

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

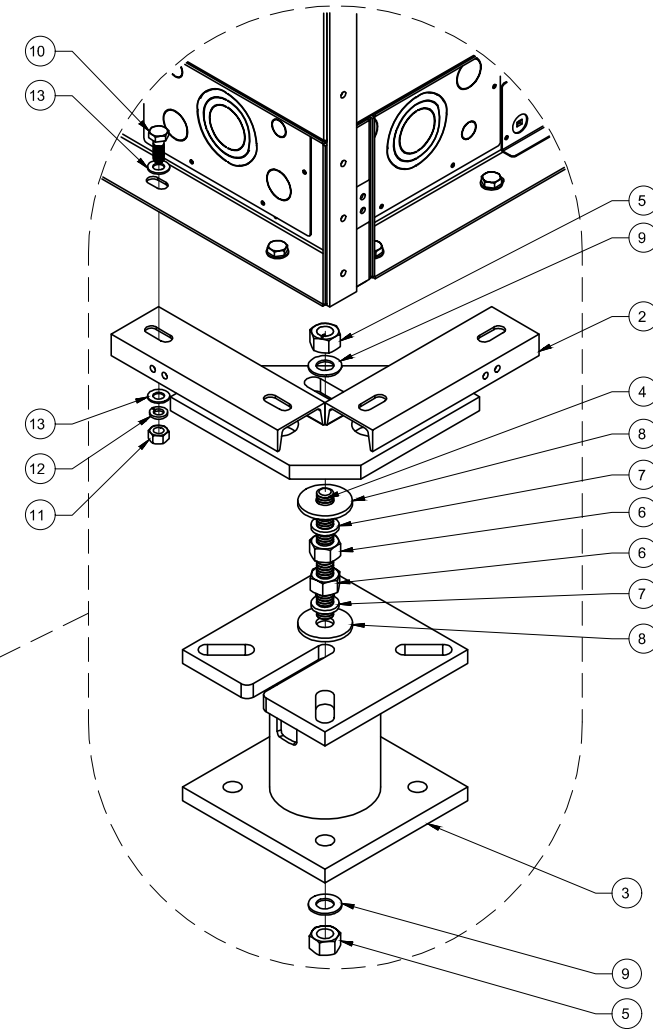
S-5

DETAILS PROVIDED BY AT&T FOR THE PURPOSE OF USE IN THESE CONSTRUCTION DRAWINGS. CONTACT AT&T FOR COMPLETE INFORMATION AND GUIDELINES FOR INSTALLATION OF EQUIPMENT CABINET AND GENERATOR.



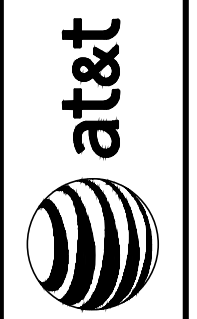
CONCRETE ANCHOR LAYOUT SECTION G-G

MINIMUM ANCHOR SIZE: 5/8"  
MAXIMUM ANCHOR SIZE: 1"



ITEM	DESCRIPTION
1	WIC 3-STEP STAIRS KIT
2	AT&T WIC HELICAL ADAPTER WELDMENT
3	6"x11" EXTENSION WELDMENT
4	ROD, THREADED, 1.00"-8x9.00" LG, ASTM A193 B7 GALV
5	NUT, HX, ANCO LOCK, 1.00"-8UNC, GR 2H, GALV
6	NUT, NX, 1.00"-8UNC, GR 2H, GALV
7	WASHER, SPLIT LOCK, 1.00", GALV
8	WASHER, FLAT, 1.063 ID, 3.25 OD, GALV
9	WASHER, FLAT, 1.00", F436, GALV
10	BOLT, HX, .625-11UNC X 1.75" LG, ASTM A325, GALV
11	NUT, HX, .625-11UNC, GR DH, GALV
12	WASHER, SPLIT LOCK, .625 INCH, GALV
13	WASHER, FLAT, .625", ASTM F436, GALV

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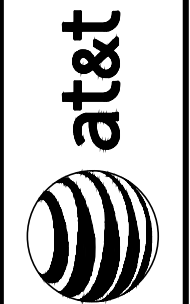


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3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
**CONCRETE FOUNDATION MOUNT DETAILS**

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

**S-5.1**



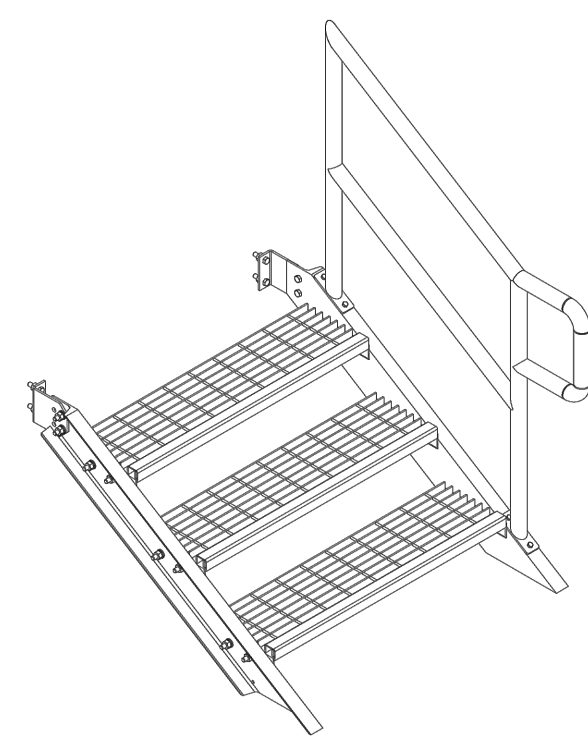
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3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
STAIR DETAILS

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

**S-6**

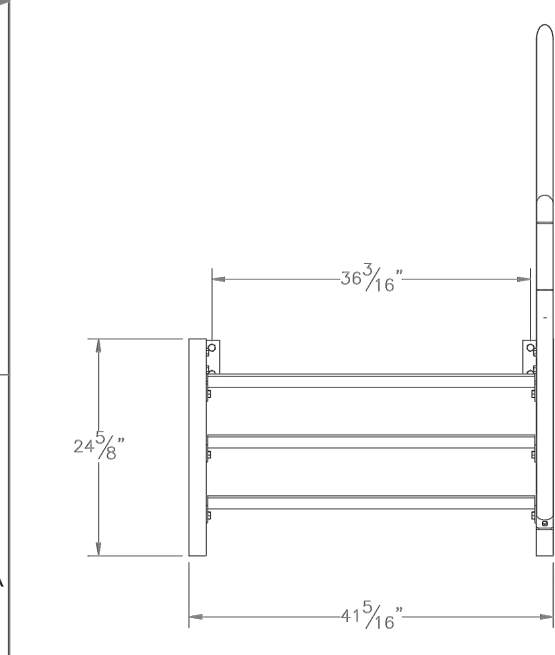
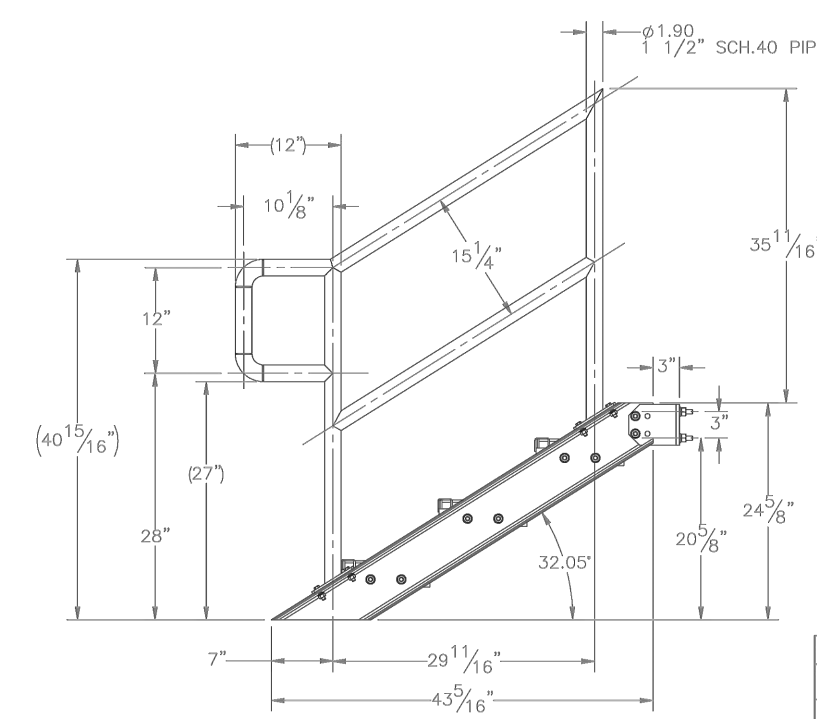
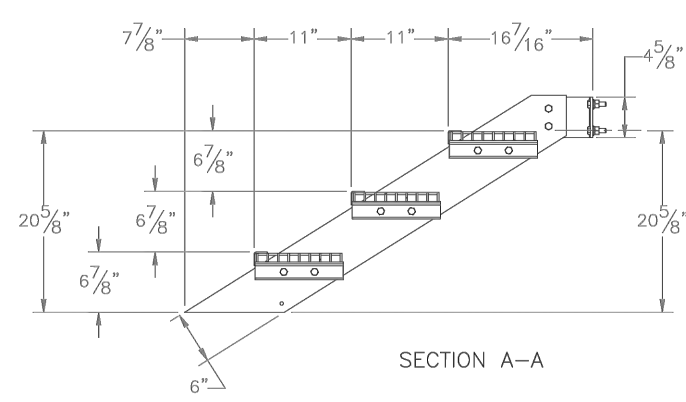
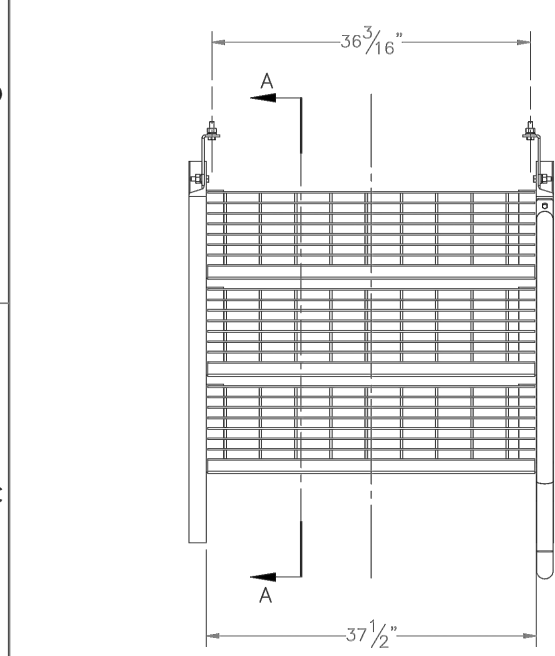
# SALES DRAWING

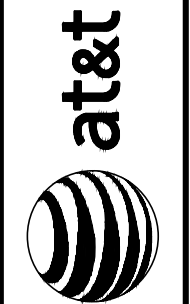


DETAILS PROVIDED BY AT&T FOR THE PURPOSE OF USE IN THESE CONSTRUCTION DRAWINGS. CONTACT AT&T FOR COMPLETE INFORMATION AND GUIDELINES FOR INSTALLATION OF ENCLOSURE AND GENERATOR.

SURFACE FINISH	UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	APPROVALS	DATE	ELECTRO MECHANICAL INDUSTRIES, INC. 11200 NEESEHAW DRIVE HOUSTON, TEXAS 77065 1-800-453-0050
MATERIAL	SEE PARTS LIST	TOLERANCES	DRAWN	06.21.2019	
THIRD ANGLE PROJECTION		FRACTIONS	CHECKED		TITLE
NEXT ASSY	USED ON	ANGLES	ENGINEER/DESIGNER		WIC 3-STEP STAIRS KIT, 32.05 DEGREES
APPLICATIONS		HOLES:	PRODUCTION		SIZE
		DRILLED OR PUNCHED			DRAWING NO.
		BURNED			B 1003-0000-0036
					SCALE: 1:16
					WEIGHT: 186.3 lbs.
					SHEET 1 OF 1

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1. SCOPE: PROVIDE LABOR, MATERIALS, AND EQUIPMENT, ETC., REQUIRED TO COMPLETE THE INSTALLATION SHOWN ON THE DRAWINGS.
2. CODES AND STANDARDS: INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF LATEST EDITIONS OF:
  - A. NFC – NATIONAL FIRE CODES
  - B. UL – UNDERWRITERS LABORATORIES
  - C. NEC – NATIONAL ELECTRICAL CODE
  - D. NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
  - E. OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
3. PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC.
4. COORDINATION: COORDINATE WORK WITH OTHER TRADES.
5. EXISTING SERVICES: DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE TOWER OWNER.
6. CUTTING AND PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.
7. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
8. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
9. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
10. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
11. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS (OR EQUAL). ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
12. PANELBOARDS (ID NUMBERS) AND DISCONNECTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
13. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-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.
14. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-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.
15. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-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.
16. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
17. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
18. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
19. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
20. THE CONTRACTOR 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.
21. ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM. PROVIDE SUPPORT CABLES AS PER N.E.C. TABLE 300.19(A).
22. CONTRACTOR SHALL PROVIDE LABELS FOR EACH BREAKER INCLUDING THE BREAKER POSITION NUMBER, THE BREAKER SIZE AND A DESCRIPTION OF BREAKER FEED. CONSTRUCTION MANAGER MUST APPROVE BREAKER LABELS AND MOUNTING LOCATION.
23. ENGRAVED LAMACOID PLASTIC LABELS TO HAVE AT&T, SITE NAME, SITE NUMBER, & ADDRESS

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4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD

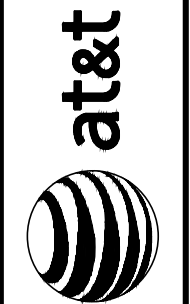
ELECTRICAL NOTES

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DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369

E-1



#	DATE	DESCRIPTION
0	12/20/21	ISSUED FOR CLIENT REV.
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3	01/19/22	ISSUED FOR CONSTRUCTION
4	10/18/22	ISSUED FOR CONSTRUCTION

COCONUT ROAD  
**UTILITY SITE PLAN**

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD

FA #: 10127369

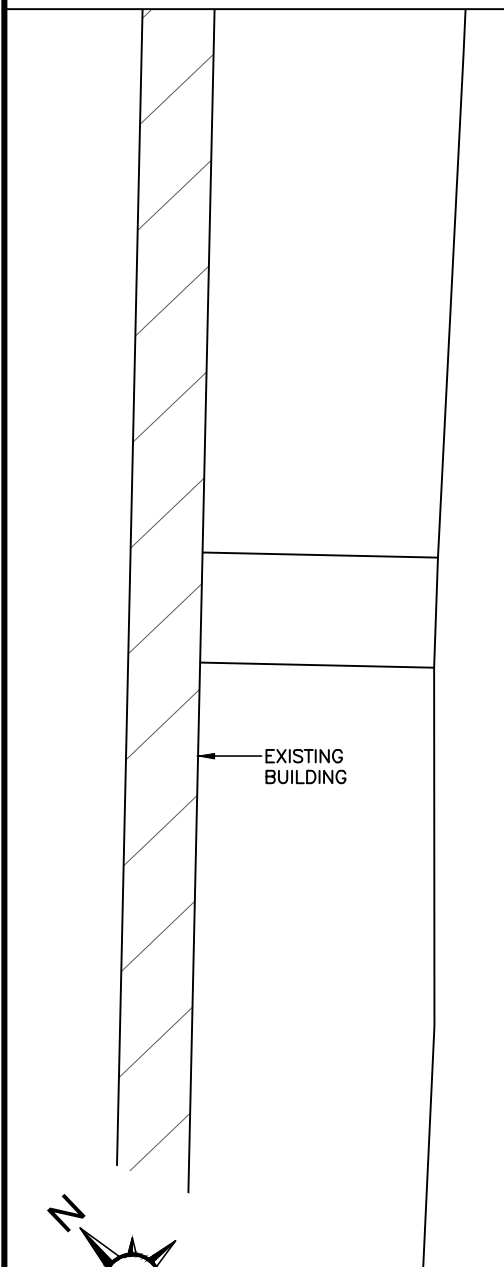
**E-2**

LEGEND:

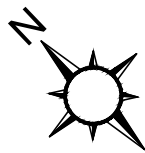
- F — F — UNDERGROUND FIBER ROUTING
- UGP — UNDERGROUND POWER ROUTING

NOTES:

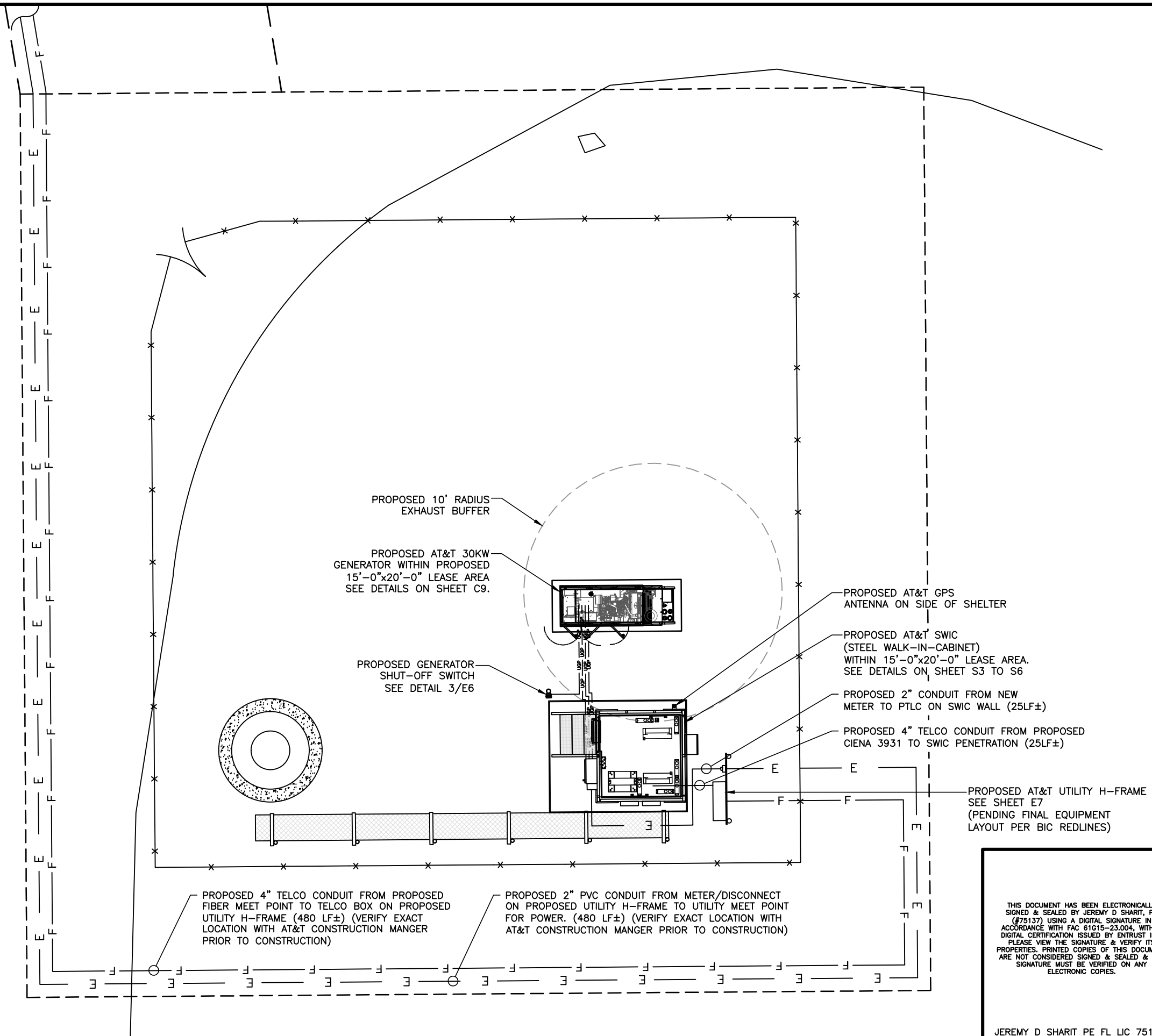
1. PROPOSED CONDUIT ROUTING IS SCHEMATIC ONLY, CONTRACTOR SHALL DETERMINE SUITABLE ROUTING IN THE FIELD.
2. PROPOSED TELCO CONDUIT ROUTING SHALL NOT INCLUDE ANY LBS AND HAVE SMOOTH 90 DEGREE ANGLE BENDS.



EXISTING BUILDING



1 COMPOUND LAYOUT  
E-2



PROPOSED 10' RADIUS EXHAUST BUFFER

PROPOSED AT&T 30KW GENERATOR WITHIN PROPOSED 15'-0"x20'-0" LEASE AREA SEE DETAILS ON SHEET C9.

PROPOSED GENERATOR SHUT-OFF SWITCH SEE DETAIL 3/E6

PROPOSED AT&T GPS ANTENNA ON SIDE OF SHELTER

PROPOSED AT&T SWIC (STEEL WALK-IN-CABINET) WITHIN 15'-0"x20'-0" LEASE AREA. SEE DETAILS ON SHEET S3 TO S6

PROPOSED 2" CONDUIT FROM NEW METER TO PTLC ON SWIC WALL (25LF±)

PROPOSED 4" TELCO CONDUIT FROM PROPOSED CIENA 3931 TO SWIC PENETRATION (25LF±)

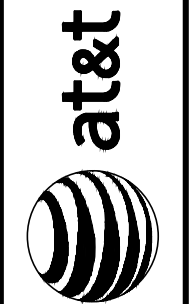
PROPOSED AT&T UTILITY H-FRAME SEE SHEET E7 (PENDING FINAL EQUIPMENT LAYOUT PER BIC REDLINES)

PROPOSED 4" TELCO CONDUIT FROM PROPOSED FIBER MEET POINT TO TELCO BOX ON PROPOSED UTILITY H-FRAME (480 LF±) (VERIFY EXACT LOCATION WITH AT&T CONSTRUCTION MANGER PRIOR TO CONSTRUCTION)

PROPOSED 2" PVC CONDUIT FROM METER/DISCONNECT ON PROPOSED UTILITY H-FRAME TO UTILITY MEET POINT FOR POWER. (480 LF±) (VERIFY EXACT LOCATION WITH AT&T CONSTRUCTION MANGER PRIOR TO CONSTRUCTION)

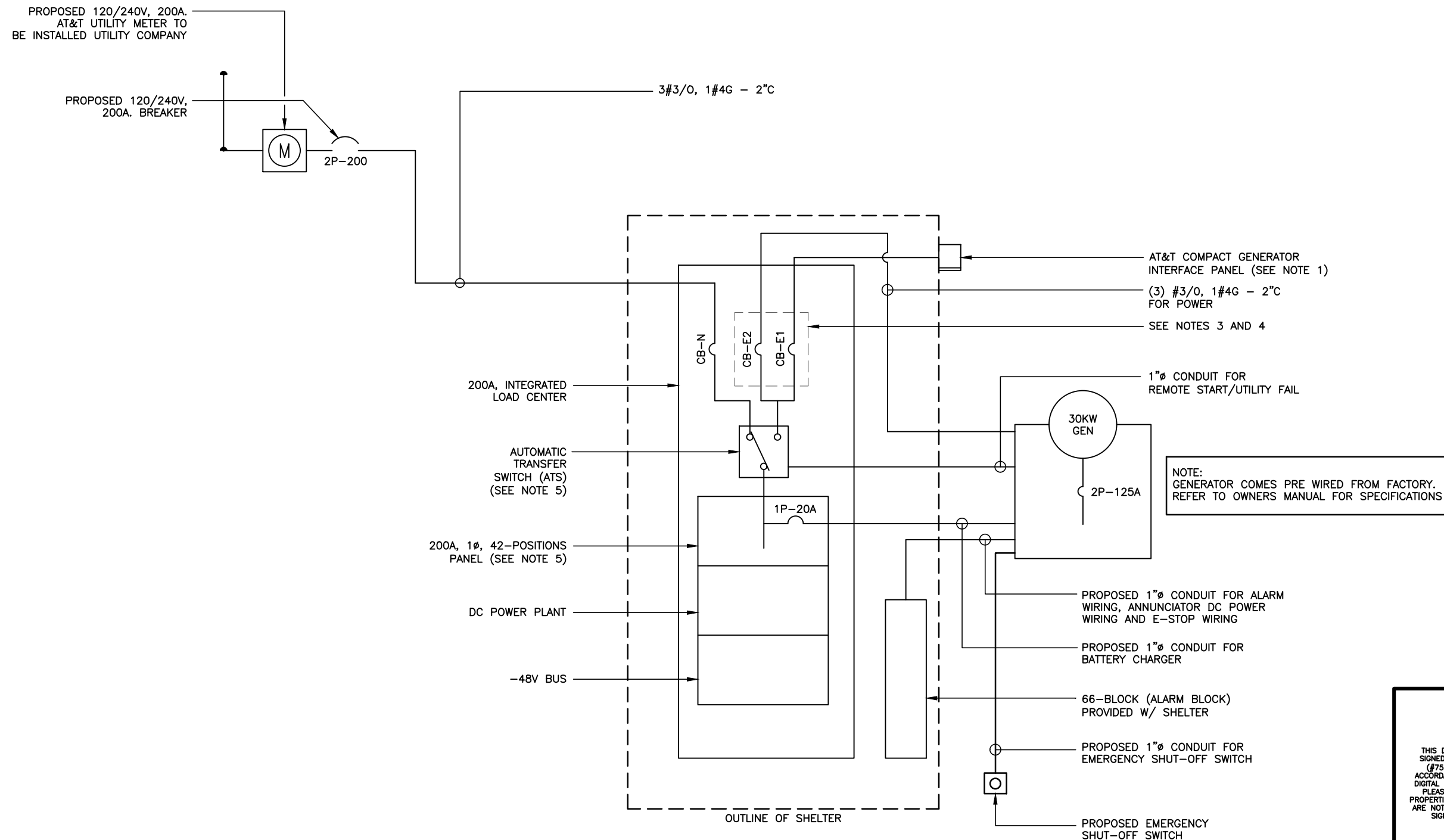
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**NOTES:**

1. PROVIDE ARC FLASH WARNING LABELS ON ALL PANELS PER NEC 110.16 AND IN ACCORDANCE WITH SHEET E1.
2. PROVIDE EQUIPMENT IDENTIFICATION LABELS PER NEC 225.37 AND IN ACCORDANCE WITH SHEET E1.
3. CB-N AND CB-E1 ARE 2P-200A MAIN BREAKERS.
4. CB-E1 IS MECHANICALLY INTERLOCKED.
5. POWER TRANSFER LOAD CENTER (PTLC) INCLUDES A CAM-LOC GENERATOR CONNECTION PANEL, AN ATS, A MECHANICALLY INTERLOCKED TRANSFER SWITCH, A 200A 42-POS PANEL AND SURGE SUPPRESSION.
6. ALL ITEMS IN NOTE 5 ARE PRE-WIRED BY MANUFACTURER.



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COCONUT ROAD  
**ONE-LINE DIAGRAM**

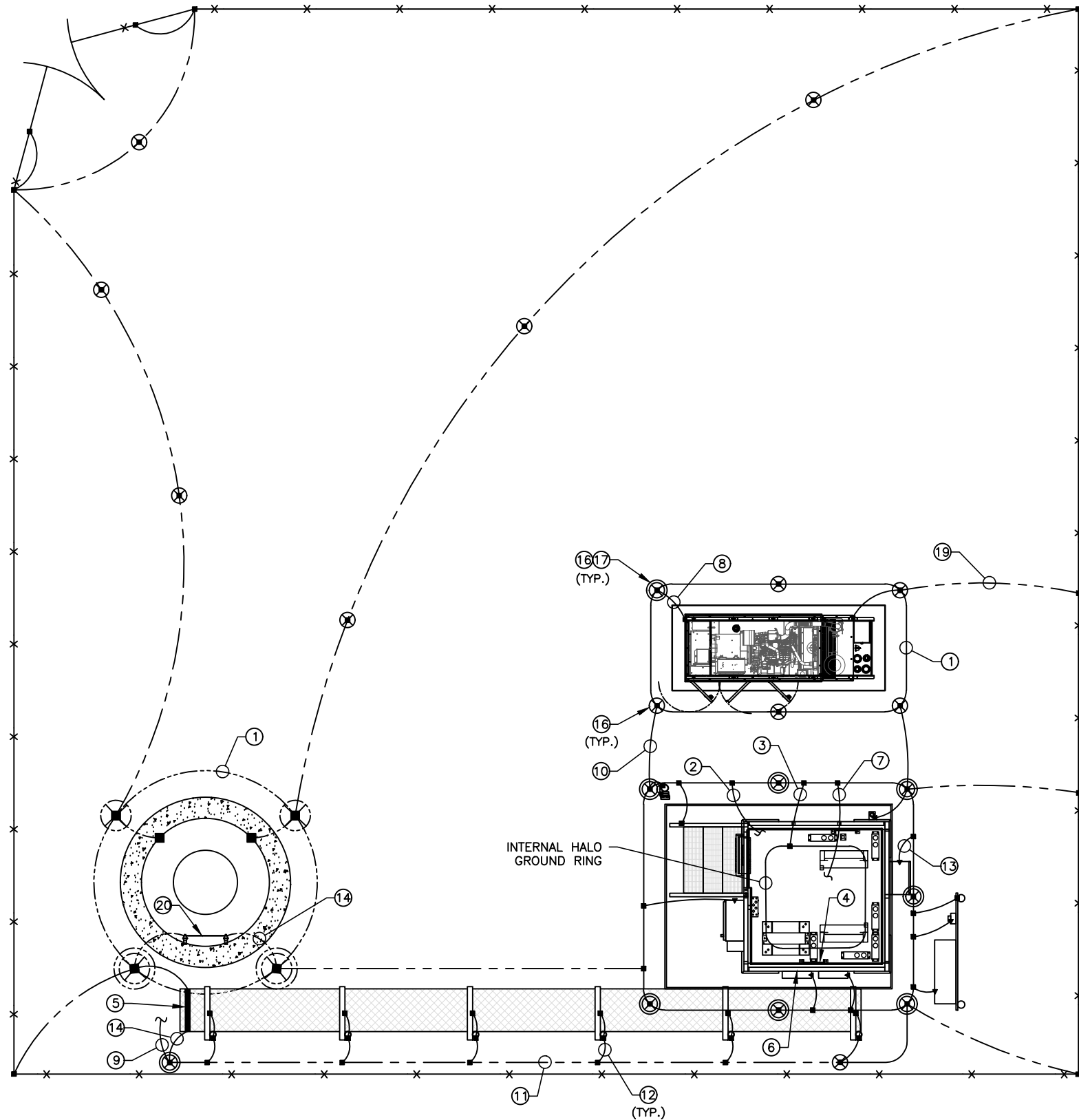
DESIGNED: JDS  
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GROUNDING KEY NOTES:

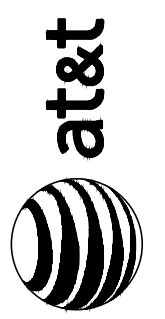
- ① PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE TOWER, STEEL WALK-IN-CABINET AND GENERATOR PAD, AS SHOWN. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
- ② BOND REBAR IN CONCRETE PAD TO THE BURIED GROUND RING. EXOTHERMICALLY WELD #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE REBAR (AT THE END OF THE REBAR) AND CONNECT TO THE BURIED GROUND RING.
- ③ BOND GROUND RING TO INTERIOR HALO W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
- ④ MASTER GROUND BAR MOUNTED TO INTERIOR SHELTER WALL.
- ⑤ TOWER MOUNTED GROUND BAR.
- ⑥ SHELTER EXTERIOR GROUND BAR, BONDED TO GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
- ⑦ BOND, W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR, ALL INTERIOR GROUND BAR CONNECTIONS TO EXTERIOR GROUND RING. (SLEEVE THROUGH WALL)
- ⑧ BOND GENERATOR CASE TO GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
- ⑨ BOND INSULATED/SOLID COAX GROUND KIT TO TOWER GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
- ⑩ BOND TO ANY METAL WITHIN 10' OF PROPOSED GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
- ⑪ BOND SHELTER GROUND RING TO TOWER GROUND RING. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
- ⑫ BOND ICE BRIDGE AND H-PRAME POSTS TO BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO EACH POST AT 12" ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
- ⑬ BOND HVAC HOUSING TO GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
- ⑭ INSTALL GROUNDING CONDUCTOR(S) FROM THE BURIED GROUND RING FOR CONNECTION TO THE GROUND BAR AT BOTTOM OF TOWER. VERIFY EXACT LOCATION OF GROUNDING BAR AND PROPER CONDUCTOR LENGTH. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTOR (LENGTH AS REQUIRED) TO THE GROUND BAR. GROUNDING CONDUCTORS MUST BE HELD AWAY FROM TOWER BY USING STANDOFFS OR ROUTING THE CONDUCTORS IN FLEXIBLE PVC CONDUIT.
- ⑮ EXISTING TOWER GROUND RING CONTRACTOR TO HAND EXCAVATE TO EXPOSE.
- ⑯ INSTALL 5/8" x 10' LONG COPPER CLAD STEEL GROUND RODS. SPACING BETWEEN RODS MINIMUM OF 10' AND NO MORE THAN 16' (NONLINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET E-6. IF ROCK IS ENCOUNTERED, GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30" FROM VERTICAL AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.
- ⑰ PROVIDE 6" DIAMETER PVC INSPECTION SLEEVE WITH REMOVABLE COVER IN LOCATION SHOWN. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET E-6, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
- ⑱ BOND GROUND RING TO EQUIPMENT CASES W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
- ⑲ BOND GROUND RING TO FENCE POST, EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO EACH POST AT 12" ABOVE GRADE.
- ⑳ RAD CENTER GROUND BAR TO BE MOUNTED TO TOWER WITHOUT INSULATORS.

NOTE:  
THE UPPER GROUND BAR SHALL BE HARD MOUNTED TO THE TOWER. INSULATORS SHALL BE REMOVED ALLOWING THE TOWER TO CARRY THE CONTINUITY.



**SMW**  
ENGINEERING GROUP, INC.  
SMW # 18-1862

**HIGH PERFORMANCE SERVICES, LLC**  
A Castle Consolidated Company  
3001 MILLS STREET  
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P: 850-232-7951  
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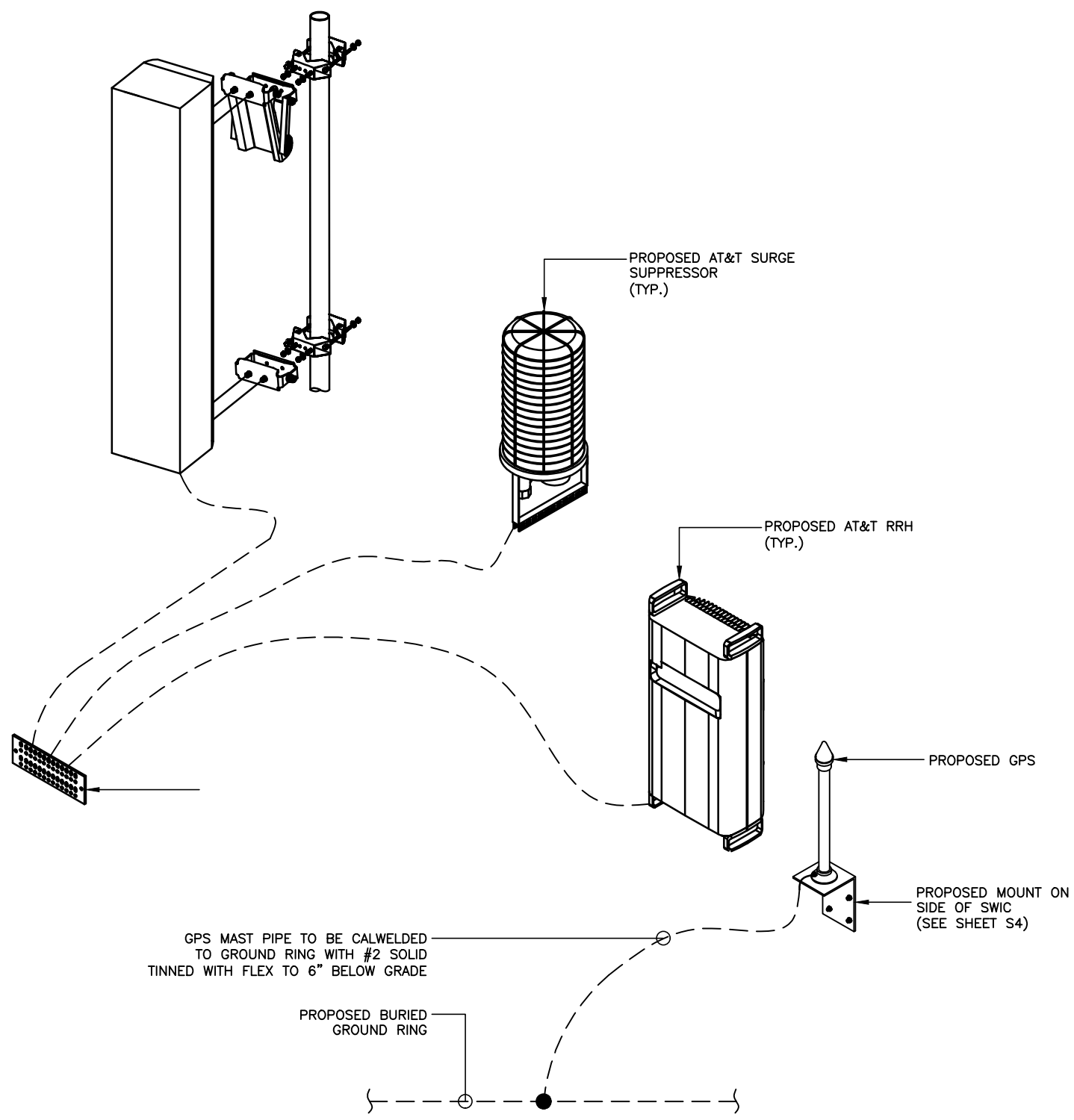


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COCONUT ROAD  
**PROPOSED EQUIPMENT GROUNDING PLAN**

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

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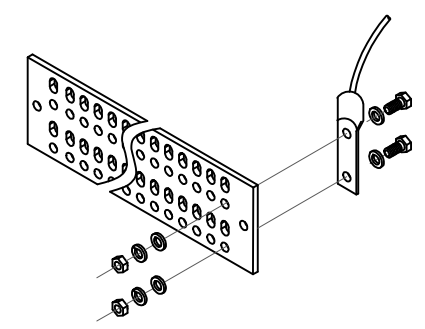
- NOTES:**
1. CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP-76416. ALL EXOTHERMIC CADWELDS SHALL BE PERFORMED BY CERTIFIED TECHNICIAN.
  2. PROVIDE WEATHER PROOFING AND GROUNDING KIT TO BOND DC POWER CABLE SHIELD TO EXTERNAL HATCH PLATE GROUND BAR.
  3. PROVIDE GROUND CONNECTION FOR DC POWER CABLE SHIELD TO "P" SECTION OF CRGB WITHIN SHELTER.
  4. CONTRACTOR SHALL USE THEFT RESISTANT GROUND WIRES AND BARS WHEN FEASIBLE.
  5. CONTRACTOR SHALL MAINTAIN A 12" MINIMUM GROUND WIRE BEND RADII.
  6. GROUND LUGS, HEATSHRINK AND CLAMPS DEVICES SHALL COMPLY WITH AT&T GROUNDING AND BONDING PRACTICE TP-76416.

GROUNDING DIAGRAM (TYP.)

NTS 1

GROUNDING NOTES

3



TYPICAL GROUND BAR CONNECTION DETAIL

NTS 2

1. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
2. GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS, ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY.
3. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
4. 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.
5. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
6. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
7. 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.
8. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES 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.
9. 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.
10. CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP-76416.
11. CONTRACTOR SHALL INSPECT AND TEST ANY NEW OR EXISTING AT&T GROUNDING SYSTEM WITH A BIDDLE-MEGGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT DOCUMENTATION.
12. CONTRACTOR TO USE COPPER SHIELD ON ALL LUG CONNECTIONS TO GROUND BARS.

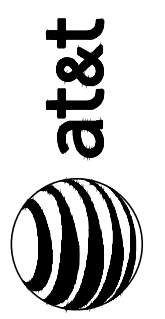
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E-5

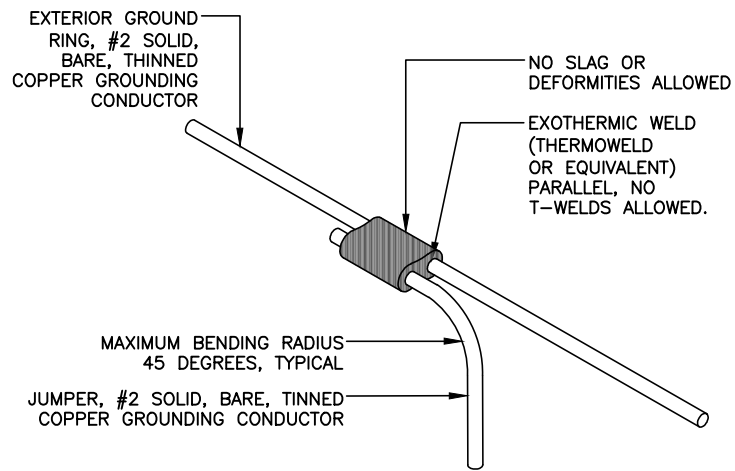
**SMW**  
 ENGINEERING GROUP, INC.  
 SMW #: 18-1862

**HIGH PERFORMANCE SERVICES, LLC**  
 A Cassette Consolidated Company  
 3001 MILLS STREET  
 LAFAYETTE, LA 70507  
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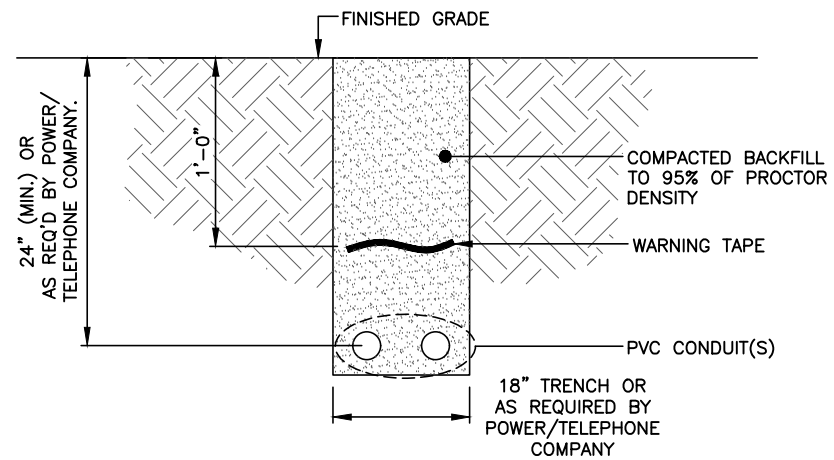
COCONUT ROAD  
**GROUNDING DETAILS AND NOTES**



WELD CONNECTION DETAIL

NTS

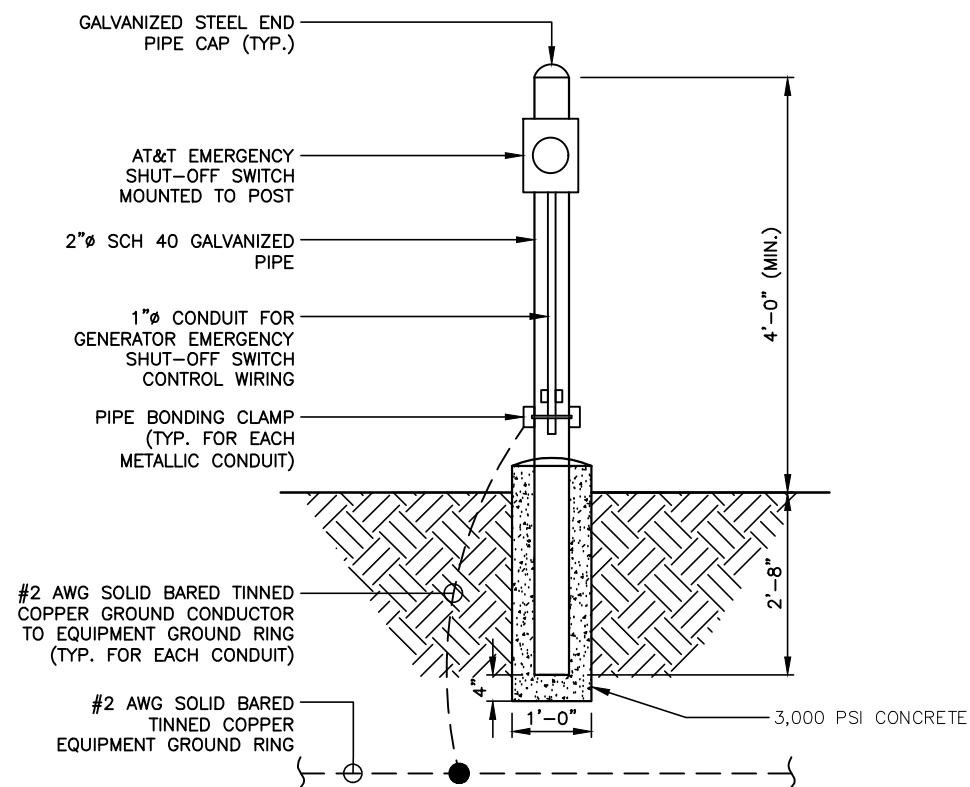
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TRENCH DETAIL

NTS

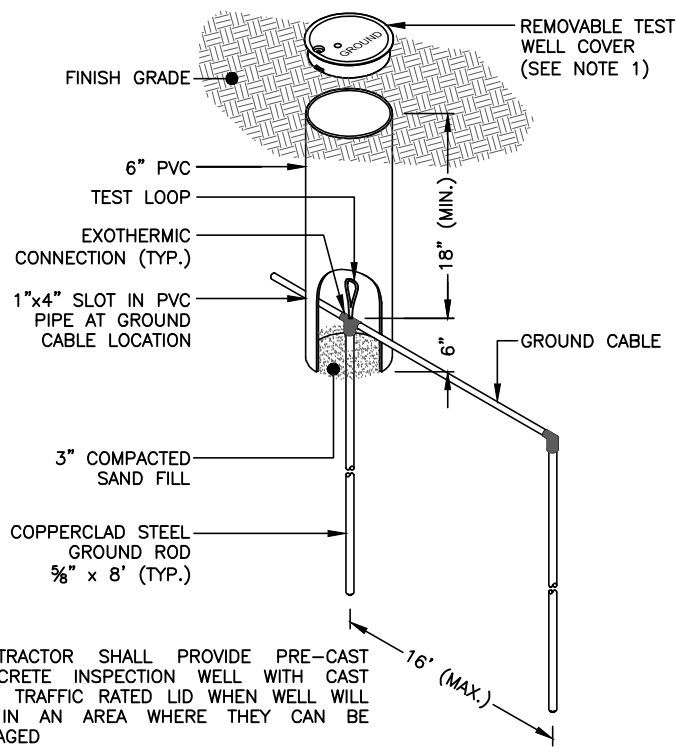
2



EMERGENCY SHUT-OFF SWITCH DETAIL

NTS

3



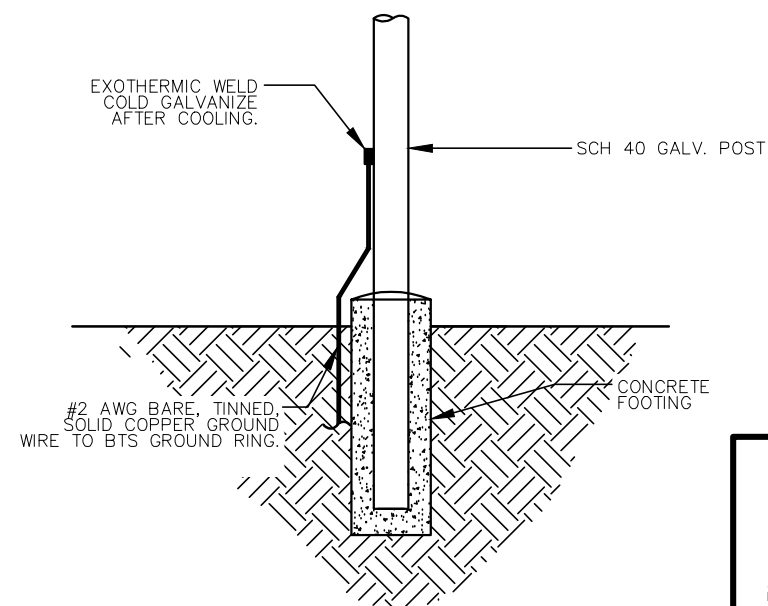
NOTES:

- CONTRACTOR SHALL PROVIDE PRE-CAST CONCRETE INSPECTION WELL WITH CAST IRON TRAFFIC RATED LID WHEN WELL WILL BE IN AN AREA WHERE THEY CAN BE DAMAGED
- ALL WORK SHALL CONFORM TO THE LOCAL BUILDING CODES. DEPTH MAY VARY.

GROUND ROD INSPECTION WELL DETAIL

NTS

4



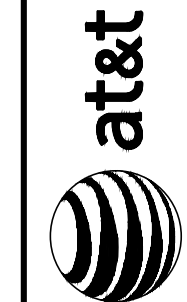
H-FRAME/ICE BRIDGE/FENCE POST BONDING DETAIL

NTS

5



SMW # 18-1862



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COCONUT ROAD

ELECTRICAL DETAILS

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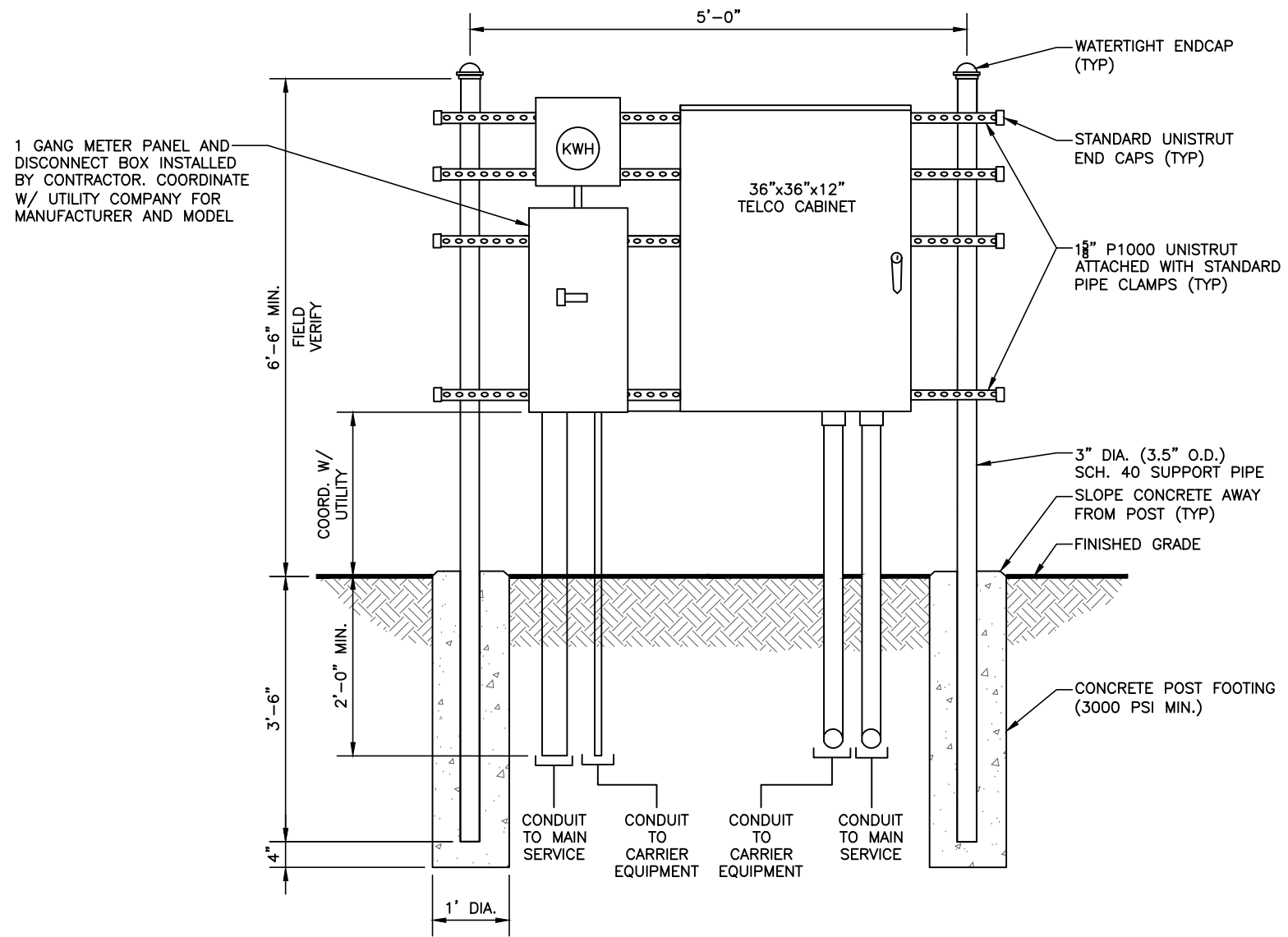
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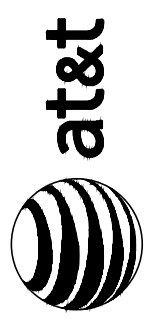
JEREMY D SHARIT PE FL LIC 75137

NOTE:  
 PENDING FINAL EQUIPMENT LAYOUT  
 PER BIC REDLINES



NOTES:

1. 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.
2. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD REQUIREMENTS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
4. SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
5. TELCO CABINET SHALL BE 36"x36"x12" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
6. ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT METER PANEL INSTALLED. CONTRACTOR SHALL FIELD COORDINATE ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.



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COCONUT ROAD  
 AT&T UTILITY  
 FRAME DETAIL

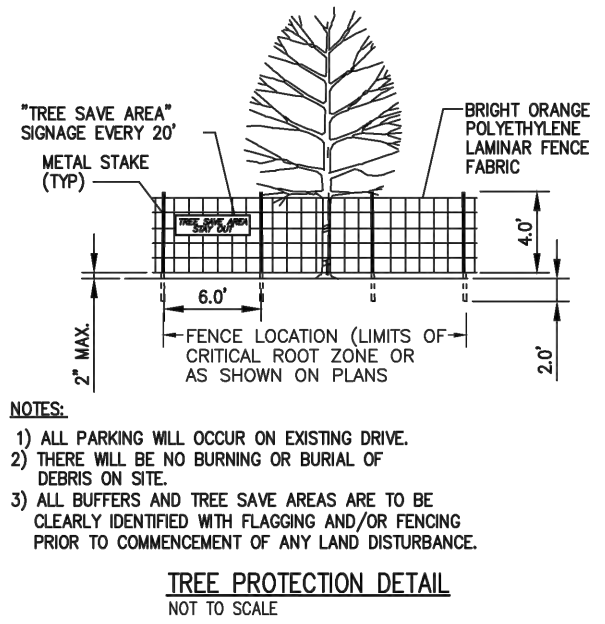
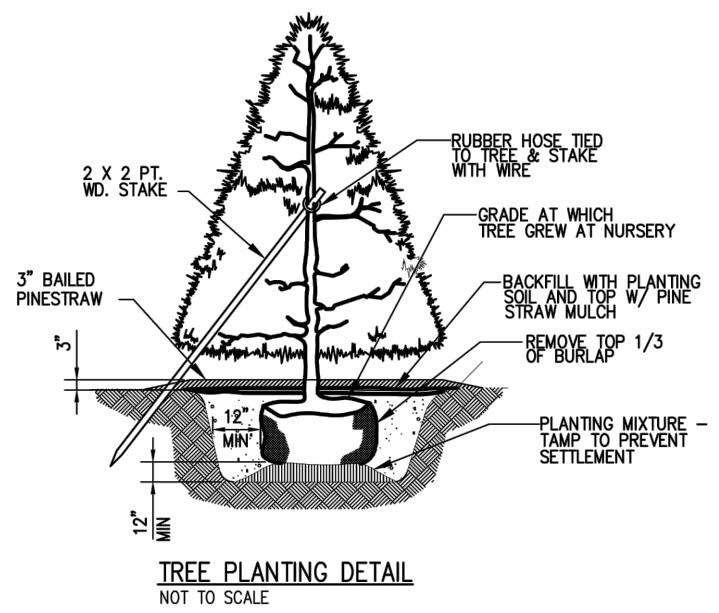
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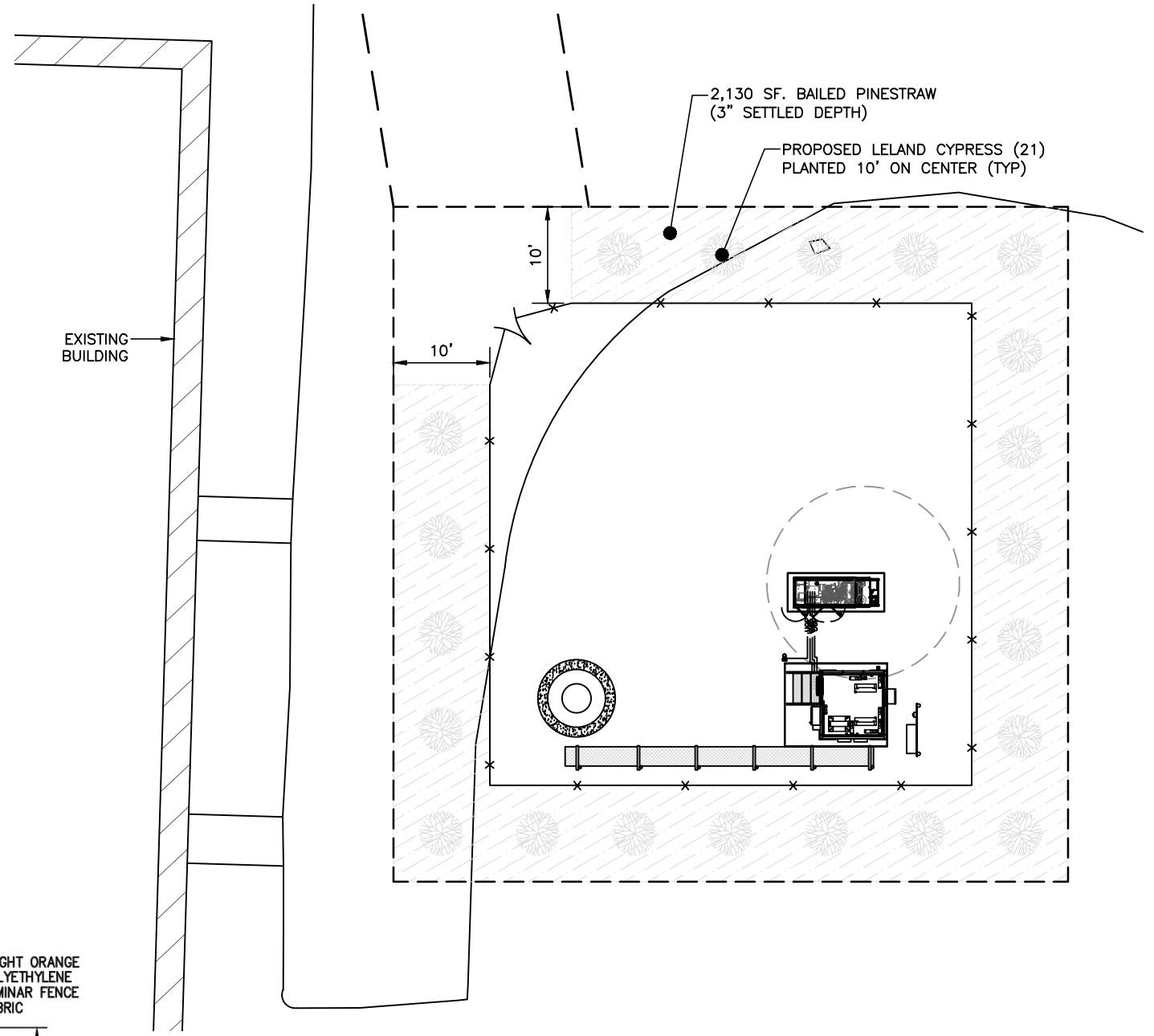
# LANDSCAPE NOTES

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
2. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER'S REPRESENTATIVE BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN.
6. ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZATION, ETC.) OF PLANTING AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE ENGINEER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
10. THE ENGINEER'S REPRESENTATIVE WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
11. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
12. ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION, REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

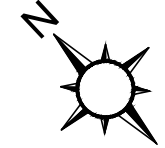
TOTAL AREA OF LANDSCAPE BUFFER: 2,130 SF - 0.048898 ACRES			
<b>PLANT LIST:</b>			
QTY.	COMMON NAME	BOTANICAL NAME	SIZE/REMARKS
21	LEYLAND CYPRESS	CUPRESSOCYPARIS LEYLANDII	6' MIN. HEIGHT AT PLANTING
2,130 SF PINESTRAW MULCH - 3" SETTLED LAYER OF CLEAN STRAW			



- NOTES:**
- 1) ALL PARKING WILL OCCUR ON EXISTING DRIVE.
  - 2) THERE WILL BE NO BURNING OR BURIAL OF DEBRIS ON SITE.
  - 3) ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.



1 LANDSCAPE PLAN  
L-1



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COCONUT ROAD

**LANDSCAPE PLAN**

DESIGNED: JDS  
DRAWN: BMD  
CHECKED: RTB  
LAST REV. BY: BMD  
FA #: 10127369

**L-1**

JEREMY D SHARIT PE FL LIC 75137



May 24, 2022

Matthew A Noble  
Principal Planner  
Department of Community Development  
Village of Estero, FL.

Re: AT&T Cell Tower SEZ2020-E001

Mr. Noble,

This letter is intended to provide further clarification on the engineering requirements for proposed subject cell tower and response to the Department of Community Development staff's request for a more exhaustive analysis of additional sites provided in document 4857-4637-3152 v.1 Attachment C to staff report.

Engineering requirements are: 1) to provide new network cell coverage for capacity congestion relief over the wide-spread commercial and high-density residential areas near the intersection of US41 & Coconut Rd. and 2) to increase network signal strength over interference levels to provide increased coverage over the residential area identified west of US41 to Estero Bay. Those areas were highlighted in aerial polygon views within the original RF Justification letter and are reproduced in Plot A, as are the additional alternate locations provided by Staff.

Capacity congestion relief can only be provided by the network if there are new cells introduced that would provide dominate coverage footprints over the area where congestion relief is needed. A new cell tower at either of the alternate locations seen listed in Plot A as Alternate Locations 2 and to a lesser extent Alternate Locations 3 would be able to do that, as would the proposed hotel development which was noted in the RF justification letter. However, none of those locations at a low tower height would be able to meet the engineering requirements of both capacity congestion relief and coverage improvement where needed.

A new cell tower added to the network in either of the locations identified as Alternate Locations 3 and to a much greater extent the industrial area to the south where the existing CrownCastle cell tower exists, would create an interference scenario to the network which could only be compensated by reducing the coverage footprint of the existing site to the south. That footprint from antennas at 240' is what provides some level of coverage to the west of US41 today, an area we are trying to improve coverage by the addition of a new tower.

Sincerely,

George Brosseau  
AT&T Mobility  
Principal RF Design Engineer – Florida Market  
(561) 312-3000

Plot A

