

PREPARED FOR:



PRELIMINARY DEVELOPMENT PLAN

SITE NAME:

N. ALACHUA  
NXFL-358

PROJECT DESCRIPTION

GREENFIELD

PROPOSED PERSONAL WIRELESS SERVICE  
& TELECOMMUNICATIONS FACILITY

(255' SELF-SUPPORT TOWER W/ 10 APPURTENANCE)

PROJECT SUMMARY

SITE ADDRESS: TBD

LATITUDE: 29° 49' 33.71"  
LONGITUDE: -82° 16' 08.01"

PARCEL ID: 07605-000-000

COUNTY: ALACHUA  
ZONING CLASSIFICATION: ZONED: AGRICULTURAL (A)  
ZONING JURISDICTION: ALACHUA COUNTY  
DISTURBED AREA: 11,795± SQ. FT. (0.27 ACRES)  
LAND OWNER: RAYONIER FOREST RESOURCES LP  
1 RAYONIER WAY  
WILDLIGHT, FL 32097

APPLICANT: NEXBTOWER DEVELOPMENT GROUP II, LLC.  
13577 NW 2ND LANE, STE 20  
NEWBERRY FL 32669

CONTACT: JOEL ROUSSEAU  
PH: 352-363-5560

ENGINEER: TOWERSOURCE  
1355 WINDWARD CONCOURSE  
SUITE 410  
ALPHARETTA, GA 30005  
678-990-2338

TELEPHONE COMPANY: TBD

POWER COMPANY: CLAY ELECTRIC  
352-372-8543

BUILDING CODES:  
FLORIDA BUILDING CODE, 7TH EDITION (2020).  
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70  
FLORIDA FIRE PREVENTION CODE 7TH EDITION 2020  
NATIONAL ELECTRICAL CODE, 2017 EDITION.  
TIA-222-G WITH ADDENDUM 1 AND 2 APPLICABLE STANDARDS.  
LIFE SAFETY CODE NFPA-101-10  
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-10 AND 341-10.  
UNDERWRITERS LABORATORIES (U.L.) APPROVED ELECTRICAL PRODUCTS.  
LOCAL JURISDICTIONAL REQUIREMENTS.  
CITY/COUNTY ORDINANCES.  
FACILITY MUST COMPLY WITH THE ALACHUA COUNTY HAZARDOUS MATERIALS MANAGEMENT CODE (HMMC), CHAPTER 353 OF THE ALACHUA COUNTY CODE. CONTACT THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION HAZMAT MANAGER – CHRIS GILBERT AT 352-264-6842 OR CGILBERT@ALACHUACOUNTY.US FOR SPECIFIC INFORMATION ON THE HMMC REQUIREMENTS.

SHEET INDEX

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PREPARED FOR:



A&E FIRM:



1355 WINDWARD CONCOURSE  
SUITE 410  
ALPHARETTA, GA 30005  
678-990-2338

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

A&E PROJECT #:	NXFL-358
DRAWN BY:	JCR
CHECKED BY:	BAA

REVISIONS

NO.	DATE	DESCRIPTION
A	07/12/23	ISSUED FOR REVIEW
0	10/05/23	ISSUED FOR CONSTRUCTION



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PHILLIP J. NEJMAN, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

NEXTOWER SITE NAME:

N. ALACHUA  
NXFL-358

TOWER OWNER:

NEXTOWER

DESIGN TYPE:

RAWLAND

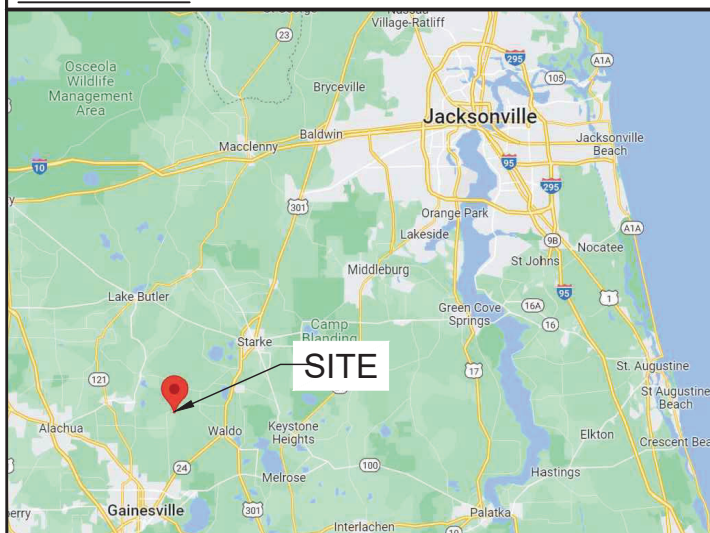
SHEET TITLE:

COVER SHEET

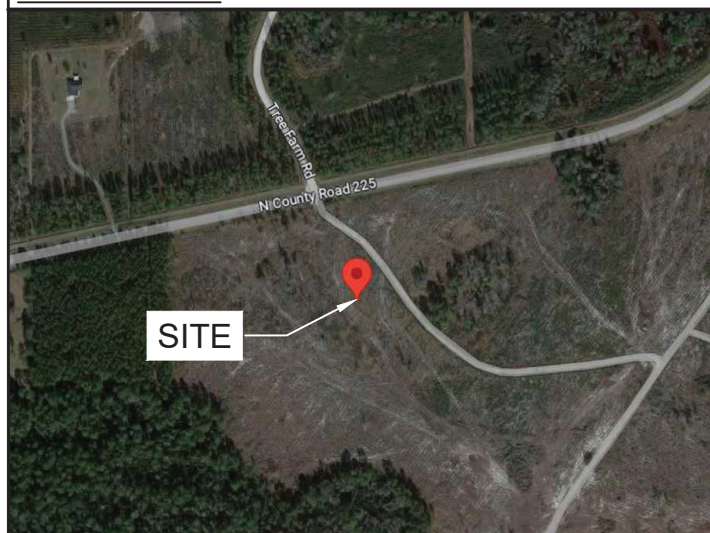
DRAWING NO.

T1

VICINITY MAP



LOCATION MAP



DIRECTIONS FROM ALACHUA COUNTY GROWTH MANAGEMENT:

- HEAD N ON S MAIN ST TOWARD SE 1ST AVE/UNION ST E 0.1 MI
  - TURN RIGHT AT THE 2ND CROSS STREET ONTO NE STATE RD 24/E UNIVERSITY AVE 0.8 MI
  - TURN LEFT ONTO NE STATE RD 24/NE WALDO RD 4.3 MI
  - TURN LEFT ONTO NE 55TH PL 0.1 MI
  - TURN RIGHT ONTO NE 39TH ST/N COUNTY ROAD 225 CONTINUE TO FOLLOW N COUNTY ROAD 225 9.1 MI
  - TURN RIGHT AT TREE FARM RD 0.1 MI
- THE SITE WILL BE ON THE RIGHT

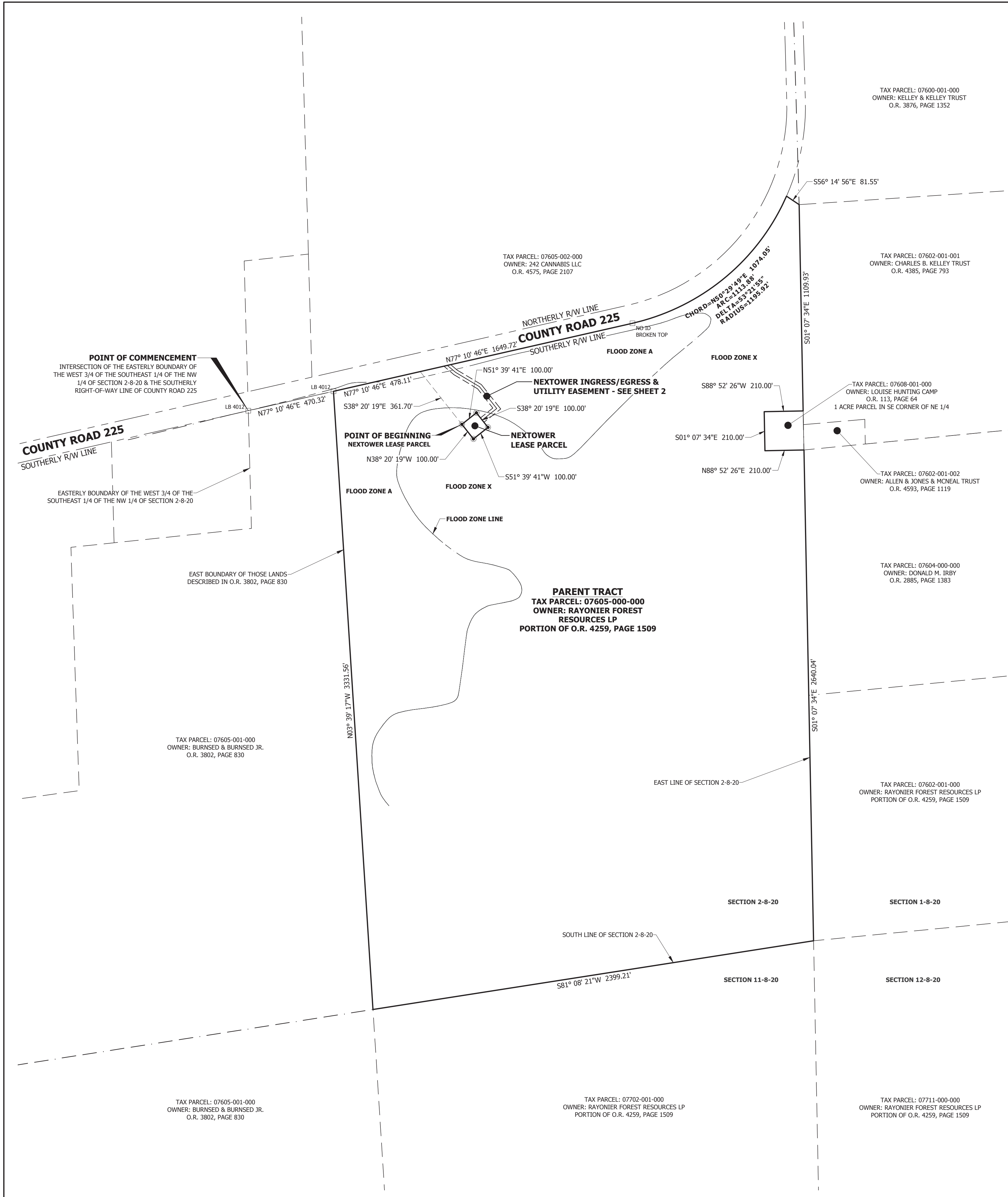


Know what's below.  
Call before you dig.



**BOUNDARY & TOPOGRAPHIC SURVEY  
OF NEXTOWER LEASE PARCEL**

IN SECTION 2, TOWNSHIP 8 SOUTH, RANGE 20 EAST  
ALACHUA COUNTY, FLORIDA



**PARENT TRACT DESCRIPTION**  
(PREPARED BY SURVEYOR BEING A PORTION OF O.R. 4259, PAGE 1509)

THAT PART OF THE EAST HALF OF SECTION 2, TOWNSHIP 8 SOUTH, RANGE 20 EAST, ALACHUA COUNTY, FLORIDA LYING SOUTHERLY OF COUNTY ROAD 225 (FORMERLY STATE ROAD 225) AND EASTERLY OF THOSE CERTAIN LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 3802, PAGE 830 OF THE PUBLIC RECORDS OF SAID COUNTY. LESS 1 ACRE PARCEL IN SOUTHEAST CORNER OF NORTHEAST QUARTER.

**NEXTOWER LEASE PARCEL DESCRIPTION**  
A PARCEL OF LAND LYING IN SECTION 2, TOWNSHIP 8 SOUTH, RANGE 20 EAST, ALACHUA COUNTY, FLORIDA; SAID PARCEL OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE INTERSECTION OF THE EASTERLY LINE OF THE WEST THREE-QUARTERS OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 8 SOUTH, RANGE 20 EAST, ALACHUA COUNTY, FLORIDA AND THE SOUTHERLY RIGHT-OF-WAY LINE OF COUNTY ROAD 225 (A 100' RIGHT-OF-WAY); THENCE N77° 10' 46"E ALONG SAID RIGHT-OF-WAY LINE FOR 470.32 FEET; THENCE CONTINUE N77° 10' 46"E ALONG SAID RIGHT-OF-WAY LINE FOR 478.11 FEET; THENCE S38° 20' 19"E FOR 361.70 FEET; THENCE N51° 39' 41"E FOR 100.00 FEET; THENCE S38° 20' 19"E FOR 100.00 FEET; THENCE S51° 39' 41"W FOR 100.00 FEET; THENCE N38° 20' 19"W FOR 100.00 FEET TO THE POINT OF BEGINNING. SAID PARCEL OF LAND SITUATE, LYING AND BEING IN ALACHUA COUNTY, FLORIDA, CONTAINING 10,000 SQUARE FEET OF LAND MORE OR LESS.

**NEXTOWER INGRESS/EGRESS & UTILITIES EASEMENT DESCRIPTION**  
A 30-FOOT WIDE EASEMENT STRIP OF LAND FOR THE PURPOSES OF INGRESS/EGRESS AND UTILITIES LYING IN SECTION 2, TOWNSHIP 8 SOUTH, RANGE 20 EAST, ALACHUA COUNTY, FLORIDA; SAID EASEMENT STRIP LYING 15.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED EASEMENT CENTERLINE:

COMMENCE AT THE INTERSECTION OF THE EASTERLY LINE OF THE WEST THREE-QUARTERS OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 8 SOUTH, RANGE 20 EAST, ALACHUA COUNTY, FLORIDA AND THE SOUTHERLY RIGHT-OF-WAY LINE OF COUNTY ROAD 225 (A 100' RIGHT-OF-WAY); THENCE N77° 10' 46"E ALONG SAID RIGHT-OF-WAY LINE FOR 470.32 FEET; THENCE CONTINUE N77° 10' 46"E ALONG SAID RIGHT-OF-WAY LINE FOR 478.11 FEET; THENCE S38° 20' 19"E FOR 361.70 FEET; THENCE N51° 39' 41"E FOR 100.00 FEET; THENCE S38° 20' 19"E FOR 100.00 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED EASEMENT CENTERLINE; THENCE N51° 39' 41"E FOR 100.00 FEET; THENCE N38° 20' 19"W FOR 150.00 FEET; THENCE N59° 10' 06"W FOR 150.00 FEET; THENCE N49° 41' 32"W FOR 58.09 FEET TO AN INTERSECTION WITH THE AFORESAID SOUTHERLY RIGHT-OF-WAY LINE OF COUNTY ROAD 225 AND THE POINT OF TERMINUS. THE SIDELINES OF SAID EASEMENT TO BE SHORTENED AND PROLONGED TO MEET AT ANGLE POINTS, LEASE PARCEL LINES AND RIGHT-OF-WAY LINES.

**SURVEYOR'S NOTES**

1. BEARINGS SHOWN HEREON ARE ASSUMED AND REFERENCED TO THE SOUTHERLY RIGHT-OF-WAY LINE OF COUNTY ROAD 225 AS BEARING N77° 10' 46"E.
2. THE BOUNDARY & TOPOGRAPHIC SURVEY SHOWN HEREON IS BASED ON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS DATED JUNE 6, 2023.
3. THIS SURVEY MAP OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
4. CENTER OF PROPOSED TOWER LATITUDE, LONGITUDE AND ELEVATIONS SHOWN HEREON WERE ESTABLISHED FROM RTK GPS OBSERVATIONS REFERENCED TO THE STATE OF FLORIDA PERMANENT REFERENCE NETWORK. THE VALUES FOR THE PROPOSED TOWER LATITUDE, LONGITUDE AND ELEVATION SHOWN HEREON EXCEED FAA "1-A" ACCURACY REQUIREMENTS. ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE REFERENCED TO THE STATE OF FLORIDA PERMANENT REFERENCE NETWORK.
5. THE PURPOSE OF THIS SURVEY IS TO SHOW IMPROVEMENTS ASSOCIATED WITH A PROPOSED TELECOMMUNICATIONS FACILITY AND PROVIDE LEGAL DESCRIPTIONS FOR SAID FACILITY AND ASSOCIATED EASEMENTS. THIS IS NOT A BOUNDARY SURVEY OF THE PARENT TRACT.
6. MEASURED BEARINGS AND DISTANCES WERE IN SUBSTANTIAL AGREEMENT WITH RECORD DATA UNLESS OTHERWISE NOTED.
7. PROPERTY TIES ARE PERPENDICULAR MEASURE UNLESS OTHERWISE NOTED.

**FLOOD ZONE NOTE**

THE HEREON DESCRIBED LEASE PARCEL APPEARS TO LIE IN FLOOD ZONE A & X BASED ON THE FEDERAL EMERGENCY MANAGEMENT ACT FIRM, COMMUNITY PANEL MAP NUMBER 12031C0160D DATED JUNE 16, 2006.

**PROPOSED TOWER DISTANCE FROM PARENT TRACT LINES**

(AS MEASURED PERPENDICULAR FROM CENTER OF TOWER)  
NORTH LINE: 350.0'  
EAST LINE: 176.0'  
SOUTH LINE: 301.0'  
WEST LINE: 74.7'

**TOWER DATA**

PROPOSED 255' SELF-SUPPORT TOWER WITH 10' APPURTENANCES  
(TOTAL HEIGHT=265')

NAD 83/2011  
LATITUDE: 29° 49' 33.71" NORTH  
LONGITUDE: 82° 16' 08.01" WEST  
GROUND ELEVATION: 149.7' NAVD 1988

**LEGEND**

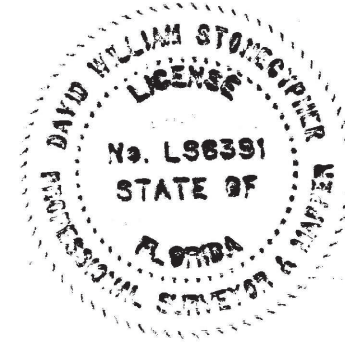
- ⊙ INDICATES 5/8" REBAR & CAP SET STAMPED LB 7810
- INDICATES 4"x4" CONCRETE MONUMENT FOUND ID AS NOTED
- R/W INDICATES RIGHT-OF-WAY
- O.R. INDICATES OFFICIAL RECORDS BOOK
- ID INDICATES IDENTIFICATION



**CERTIFIED TO:**  
1. RAYONIER FOREST RESOURCES, L.P.  
2. NEXTOWER DEVELOPMENT GROUP II, LLC

REVISION: 6-21-23 REVISED TYPIS IN LEGAL DESCRIPTIONS

<b>STONECYPHER SURVEYING INC.</b>		This map prepared by: <i>David W. Stonecypner</i> 6-21-2023		SCALE	AS SHOWN
BOOK/PAGE	41/58	DAVID W. STONECYPHER		DATE	JUNE 6, 2023
DRAWN	DWS	PROFESSIONAL SURVEYOR & MAPPER FLA. LICENSE NO. 6391		PROJECT #	22-0056
CHECKED	DWS	<b>COMMUNICATION TOWER SITE RAYONIER NORTH ALACHUA NXFL-358</b>			
DRAWING # nextower-n alachua.survey.dwg					



1225 NW 16TH AVENUE GAINESVILLE, FLORIDA 32601  
Tel.: (352) 379-0948  
Email: dws@stone-survey.com  
Professional Surveying & Mapping Certificate of Authorization  
No.: LB 7810

TAX PARCEL: 07605-001-000  
OWNER: BURNSED & BURNSED JR.  
O.R. 3802, PAGE 830

TAX PARCEL: 07702-001-000  
OWNER: RAYONIER FOREST RESOURCES LP  
PORTION OF O.R. 4259, PAGE 1509

TAX PARCEL: 07711-000-000  
OWNER: RAYONIER FOREST RESOURCES LP  
PORTION OF O.R. 4259, PAGE 1509

TAX PARCEL: 07605-002-000  
OWNER: 242 CANNABIS LLC  
O.R. 4575, PAGE 2107

TAX PARCEL: 07602-001-001  
OWNER: CHARLES B. KELLEY TRUST  
O.R. 4385, PAGE 793

TAX PARCEL: 07608-001-000  
OWNER: LOUISE HUNTING CAMP  
O.R. 113, PAGE 64  
1 ACRE PARCEL IN SE CORNER OF NE 1/4

TAX PARCEL: 07602-001-002  
OWNER: ALLEN & JONES & MCNEAL TRUST  
O.R. 4593, PAGE 1119

TAX PARCEL: 07604-000-000  
OWNER: DONALD M. IRBY  
O.R. 2865, PAGE 1383

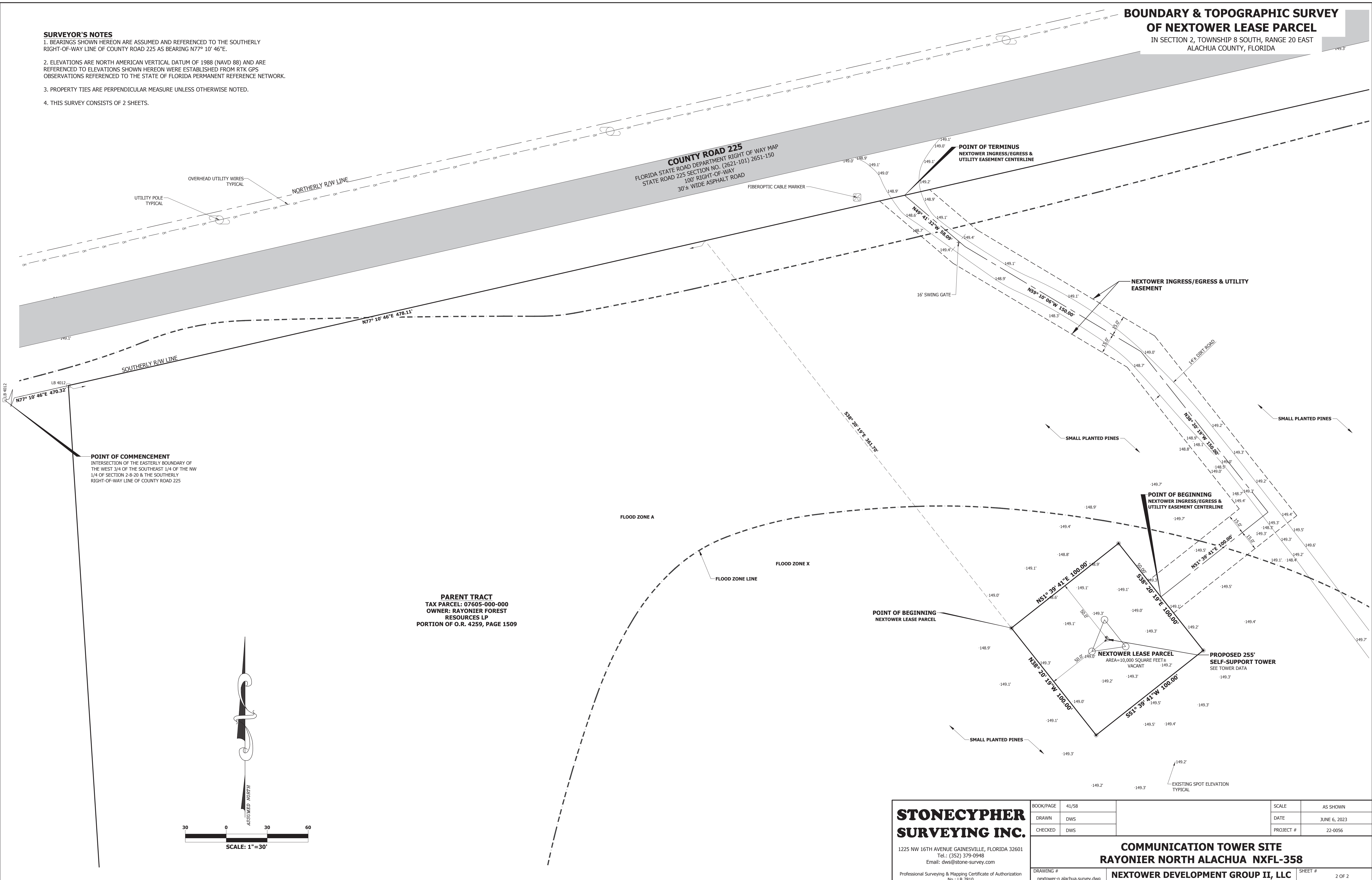
TAX PARCEL: 07602-001-000  
OWNER: RAYONIER FOREST RESOURCES LP  
PORTION OF O.R. 4259, PAGE 1509



**BOUNDARY & TOPOGRAPHIC SURVEY  
OF NEXTOWER LEASE PARCEL**  
IN SECTION 2, TOWNSHIP 8 SOUTH, RANGE 20 EAST  
ALACHUA COUNTY, FLORIDA

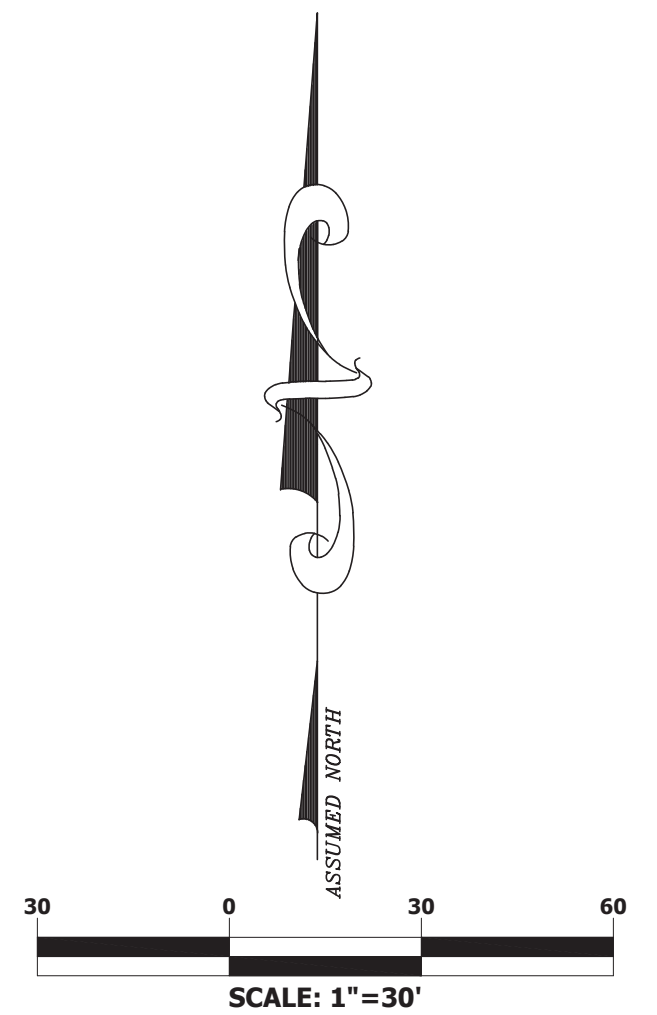
**SURVEYOR'S NOTES**

1. BEARINGS SHOWN HEREON ARE ASSUMED AND REFERENCED TO THE SOUTHERLY RIGHT-OF-WAY LINE OF COUNTY ROAD 225 AS BEARING N77° 10' 46"E.
2. ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE REFERENCED TO ELEVATIONS SHOWN HEREON WERE ESTABLISHED FROM RTK GPS OBSERVATIONS REFERENCED TO THE STATE OF FLORIDA PERMANENT REFERENCE NETWORK.
3. PROPERTY TIES ARE PERPENDICULAR MEASURE UNLESS OTHERWISE NOTED.
4. THIS SURVEY CONSISTS OF 2 SHEETS.



**POINT OF COMMENCEMENT**  
INTERSECTION OF THE EASTERLY BOUNDARY OF THE WEST 3/4 OF THE SOUTHEAST 1/4 OF THE NW 1/4 OF SECTION 2-8-20 & THE SOUTHERLY RIGHT-OF-WAY LINE OF COUNTY ROAD 225

**PARENT TRACT**  
TAX PARCEL: 07605-000-000  
OWNER: RAYONIER FOREST RESOURCES LP  
PORTION OF O.R. 4259, PAGE 1509



<b>STONECYPHER SURVEYING INC.</b>	BOOK/PAGE	41/58	SCALE	AS SHOWN
	DRAWN	DWS	DATE	JUNE 6, 2023
	CHECKED	DWS	PROJECT #	22-0056
1225 NW 16TH AVENUE GAINESVILLE, FLORIDA 32601 Tel.: (352) 379-0948 Email: dws@stone-survey.com		<b>COMMUNICATION TOWER SITE RAYONIER NORTH ALACHUA NXFL-358</b>		
Professional Surveying & Mapping Certificate of Authorization No.: LB-7810				
DRAWING #	nextower-n alachua.survey.dwg	<b>NEXTOWER DEVELOPMENT GROUP II, LLC</b>	SHEET #	2 OF 2

**GENERAL NOTES:**

- ALL CONSTRUCTION TO COMPLY WITH THE FOLLOWING CODES PLUS LATEST STATE AMENDMENTS:
- CONTRACTOR IS TO COMPLY WITH THE REQUEST FOR QUOTATION (RFQ) AND CONSTRUCTION SPECIFICATIONS (LATEST REVISION) & BUILDING MANUFACTURER'S DRAWINGS, ALL PREVIOUSLY PROVIDED BY NEXTOWER.
- DIMENSIONS TO ALL EXISTING SITE FEATURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR & ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES, PIPES, OR ANY OTHER SUBSURFACE STRUCTURES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY LOCATING SERVICE 48 HRS PRIOR TO DIGGING, DRILLING, OR BLASTING.
- NEXTOWER'S CONSTRUCTION PROJECT MANAGER OR NEXTOWER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF NEXTOWER'S CONSTRUCTION PROJECT MANAGER OR NEXTOWER'S REPRESENTATIVE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL DRAWINGS & SPECIFICATIONS AND TO COORDINATE HIS WORK WITH THE WORK OF ALL OTHERS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE PROPERTY OWNER AS TO AVOID ANY INTERRUPTIONS WITH THE PROPERTY OWNER'S OPERATIONS.
- CONTRACTOR SHALL KEEP THE PROJECT SITE FREE FROM ACCUMULATION OF WASTE MATERIALS & RUBBISH AT ALL TIMES DURING THE CONSTRUCTION PERIOD, & SHALL REMOVE ALL WASTE MATERIALS & RUBBISH FROM THE PROJECT SITE AT THE COMPLETION OF WORK, EXCEPT THOSE SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS TO BE LEFT FOR THE OWNER'S MAINTENANCE.
- THE CONTRACTOR SHALL RESTORE ALL PROPERTY TO IT'S PRE-CONSTRUCTION CONDITION TO THE OWNER'S SATISFACTION.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY DISTURBED, DAMAGED, OR REMOVAL OF MONUMENTATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR.
- DAMAGE TO EXISTING STRUCTURES & UTILITIES SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. MAINTAIN FLOW FOR ALL UTILITIES.
- ALL UTILITY CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY PRIOR TO EACH CONNECTION.
- UNLESS OTHERWISE INDICATED, NEXTOWER SHALL OBTAIN & PROVIDE CONSTRUCTION PERMITS. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL REQUIRED LOCAL, CITY, STATE AND/OR COUNTY CONSTRUCTION LICENSES. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL APPLY FOR & PROVIDE A CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE FOR CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS.
- CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO AN APPROVED LANDFILL.
- SECURITY TO THE SITE SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR THE CONDITION OF THE EQUIPMENT DURING AND AFTER CONSTRUCTION. THE EQUIPMENT SHALL NOT BE USED FOR STORAGE OF TOOLS, CONSTRUCTION MATERIALS OR EQUIPMENT. CONTRACTOR SHALL ENSURE THE SHELTER IS CLEANED AT CONCLUSION OF CONSTRUCTION.
- FOR GREENFIELD/NEW TOWERS SITES, CONTRACTOR IS RESPONSIBLE FOR ENSURING THE TOWER LIGHTS ARE MONITORED MORNING AND NIGHT EACH 24 HRS FROM THE TIME THE TOWER IS TOPPED OUT UNTIL SITE HAS ALARMS CONNECTED TO THE OPERATIONS SWITCH OR NOC. CONTRACTOR TO NOTIFY PROJECT MANAGER AT THE TIME THE TOWER IS TOPPED OUT TO FORWARD NOTIFICATION TO NEXTOWER REGULATORY AND FCC/FAA.
- THIS PROJECT MEETS ALL REQUIREMENTS FOR 10/2 SELF-CERTIFICATION: CERTIFICATION OF QUALIFICATION TO USE A GENERAL PERMIT FOR A STORMWATER MANAGEMENT SYSTEM SERVING LESS THAN 10 ACRES TOTAL PROJECT AREA AND LESS THAN TWO ACRES IMPERVIOUS SURFACE.

**GENERAL NOTES CONTINUED:**

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
 

CONTRACTOR -	GENERAL CONTRACTOR
SUBCONTRACTOR-OWNER	SUBCONTRACTOR HIRED BY GENERAL CONTRACTOR. NEXTOWER
OEM-	ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF OWNER.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AN UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONS CODES, ORDINANCES AND APPLICABLE REGULATIONS DRAWING PROVIDED WERE DESIGN AND SCALED TO 11x17 FORMAT.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE OWNER.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
- CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTORS SHALL LEGALLY AN PROPERLY DISPOSE OF ALL SCRAP MATERIAL.

**SITE WORK GENERAL NOTES:**

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS TO POT HOLE UTILITY LOCATES POST MARKING TO VERIFY UTILITY LOCATES ARE CORRECT.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR/SUBCONTRACTOR WHEN EXCAVATION OR DRILLING PIERS AROUND OR NEAR UTILITIES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILIZES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- THE OWNER SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE (TO BE INSTALLED BY CONTRACTOR).
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- CONTRACTOR SHALL NOT INSTALL EQUIPMENT THAT WILL IMPEDE DOOR OR ACCESS PANELS.

**MASONRY NOTES:**

- HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
- MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI
- CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
- WALL SHALL RECEIVE TEMPORARY BRACING, TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULL CURED.

**STRUCTURAL STEEL NOTES:**

- ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- ALL INTERIOR STRUCTURAL STEEL SHALL BE FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED OXIDE PRIMER. PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, & WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION ASTM A123 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, & WELDS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE, THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURERS MAXIMUM ALLOWABLE LOADS.
- HOLES SHALL NOT BE PLACED THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON THE DRAWINGS.
- CONNECTIONS:
  - ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 13th EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
  - BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4") AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
  - NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA GALVANIZED ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
  - CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
- STEEL SHAPE:
  - W SHAPES - ASTM A992, GR 50
  - PLATES, ANGLES, CHANNELS - ASTM A36
  - PIPES A53

**LEGEND**

	FENCE		CIRCUIT BREAKER
	CONTOUR LINE		CODED NOTE NUMBER
	PROPERTY LINE / ROW		CHEMICAL GROUND ROD
	LEASE AREA		GROUND ROD
	EASEMENT		GROUND ROD WITH INSPECTION SLEEVE
	DISCONNECT SWITCH		CADWELD TYPE CONNECTION
	METER		COMPRESSION TYPE CONNECTION
			GROUND WIRE

**ABBREVIATIONS:**

AGL	ABOVE GRADE LEVEL
BTS	BASE TRANSCIEVER STATION
(E)	EXISTING
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
REF	REFERENCE
RF	RADIO FREQUENCY
T.B.D.	TO BE DETERMINED
T.B.R.	TO BE RESOLVED
TYP	TYPICAL
REQ	REQUIRED
EGR	EQUIPMENT GROUND RING
AWG	AMERICAN WIRE GAUGE
MGB	MASTER GROUND BUSS
EG	EQUIPMENT GROUND
BCW	BARE COPPER WIRE
SIAD	SMART INTEGRATED ACCESS DEVICE
GEN	GENERATOR
IGR	INTERIOR GROUND RING (HALO)
RBS	RADIO BASE STATION
U.N.O.	UNLESS NOTED OTHERWISE

**SYMBOLS:**

	SOLID GROUND BUSS BAR
	SOLID NEUTRAL BUSS BAR
	SUPPLEMENTAL GROUND CONDUCTOR
	2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	CHEMICAL GROUND ROD
	DISCONNECT SWITCH
	METER
	EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
	MECHANICAL WELD
	3/4" x 10'-0" COPPER CLAD STEEL GROUND ROD
	3/4" x 10'-0" COPPER CLAD STEEL GROUND ROD WITH INSPECTION SLEEVE
	GROUNDING WIRE

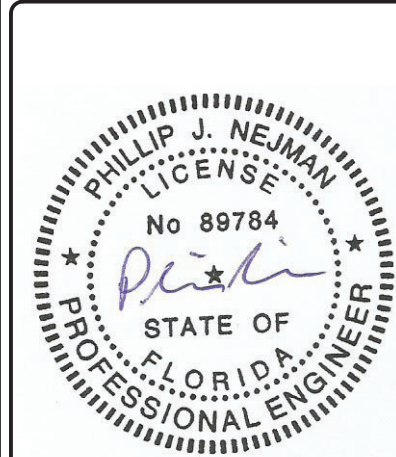
PREPARED FOR:  
  
 YOUR SIGNAL IS OUR EXPERIENCE  
 13577 NW 2ND LANE, SUITE 20  
 NEWBERRY, FL 32669

A&E FIRM:  
  
 1355 WINDWARD CONCOURSE  
 SUITE 410  
 ALPHARETTA, GA 30005  
 678-990-2338

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A&E PROJECT #:	NXFL-358
DRAWN BY:	JCR
CHECKED BY:	BAA

REVISIONS		
NO.	DATE	DESCRIPTION
A	07/12/23	ISSUED FOR REVIEW
0	10/05/23	ISSUED FOR CONSTRUCTION



10/05/2023

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NEXTOWER SITE NAME:  
**N. ALACHUA  
 NXFL-358**

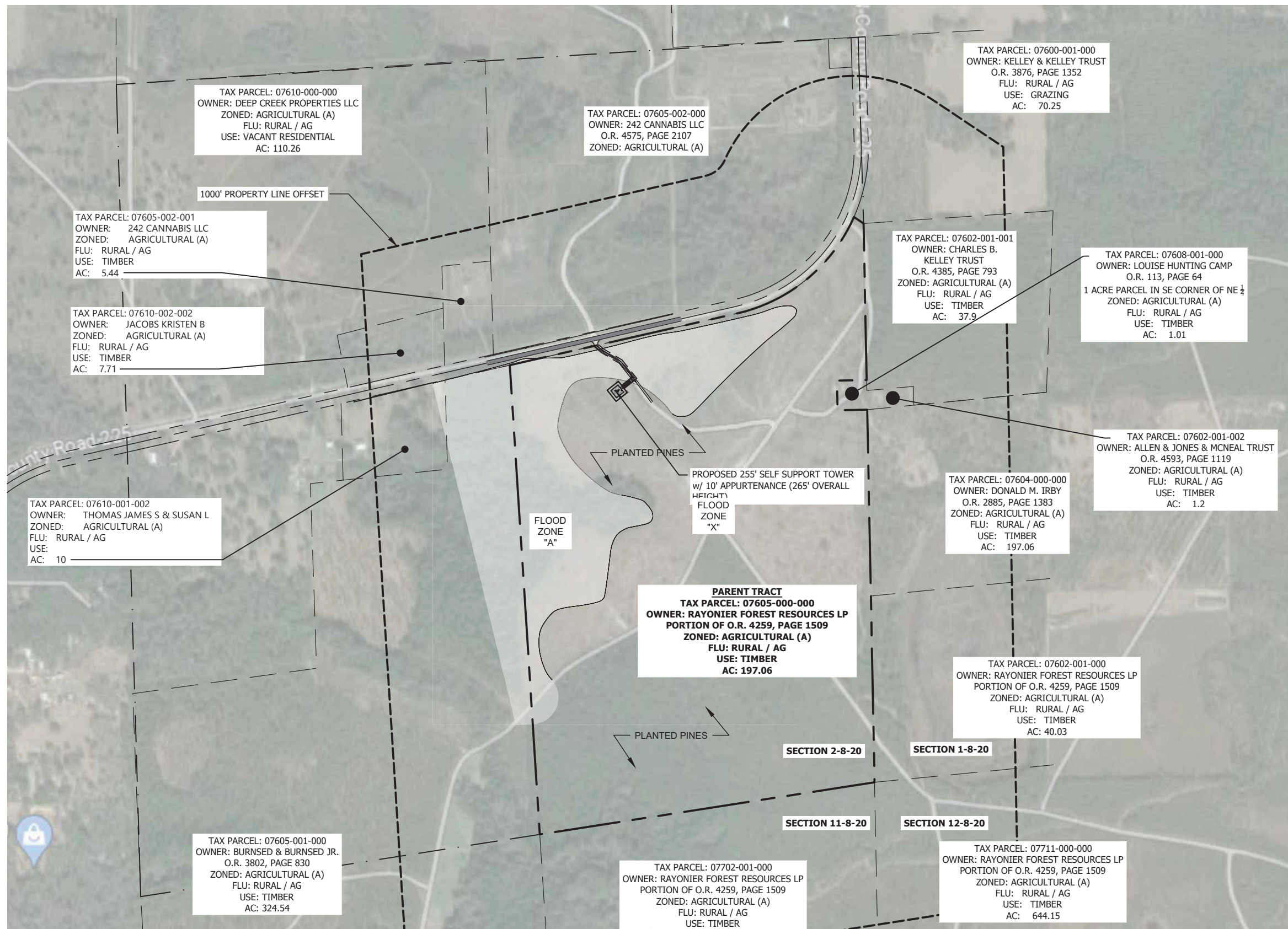
TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

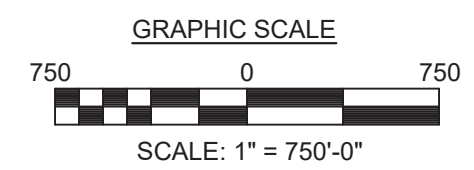
SHEET TITLE:  
**GENERAL NOTES**

DRAWING NO.  
**GN1**





**1**  
**C1** **AERIAL ZONING PLAN**  
SCALE : 1" = 750'



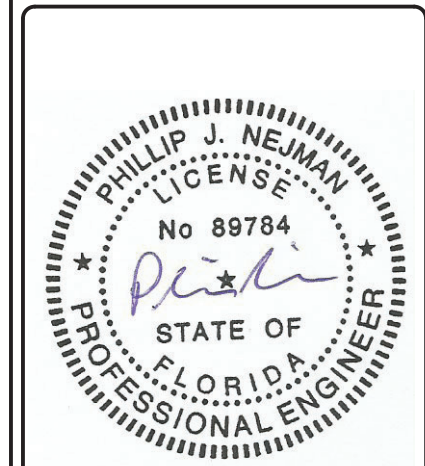
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NEWBERRY, FL 32669

A&E FIRM:  
**towersource**  
1355 WINDWARD CONCOURSE  
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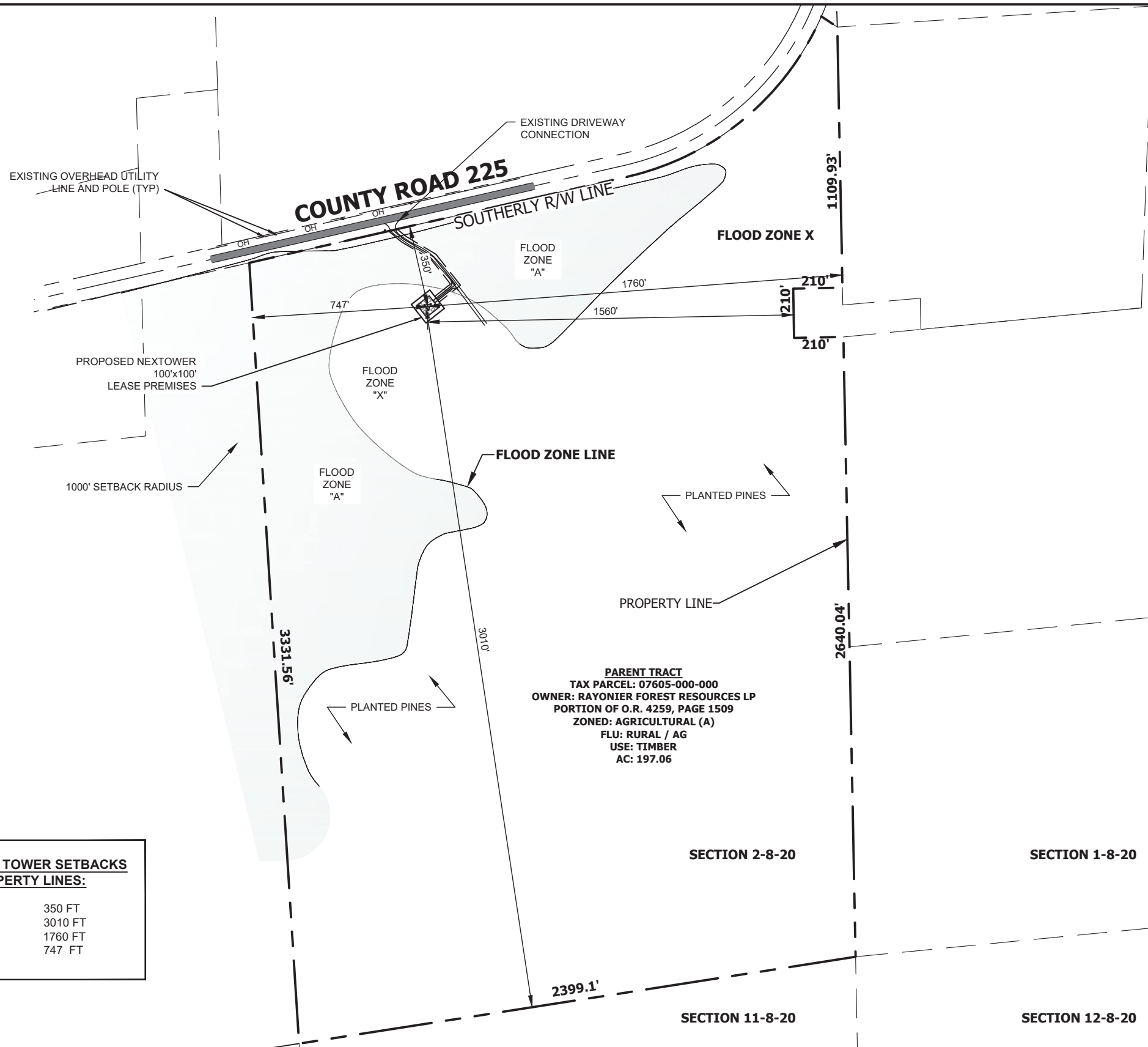
NEXTOWER SITE NAME:  
**N. ALACHUA  
NXFL-358**

TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

SHEET TITLE:  
**AERIAL ZONING PLAN**

DRAWING NO.  
**C1**

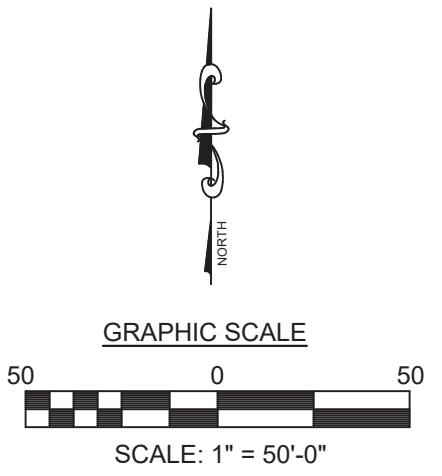


**CENTER TOWER SETBACKS TO PROPERTY LINES:**

NORTH	350 FT
SOUTH	3010 FT
EAST	1760 FT
WEST	747 FT

- SURVEY NOTE:**
- NEXTOWER STAFF SHALL COORDINATE WITH THE PROPERTY OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT IN AND AROUND THE TOWER COMPOUND.
  - PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY STONECYPHER SURVEYING INC. DATED 6/21/2023.
  - CONTRACTOR SHALL TRIM BACK TREE LINE AS NEEDED TO ALLOW FOR CLEAR ACCESS.
  - BARRIER POSTS SHALL BE PLACED AT THE DRIP LINE OF ANY TREE TO BE PROTECTED OR AN AREA BASED ON A RATIO OF TWO FEET FOR EACH INCH OF TREE DIAMETER MEASURED AT BREST HEIGHT (DBH).

**1 OVERALL SITE PLAN**  
**C1** SCALE : 1" = 50'



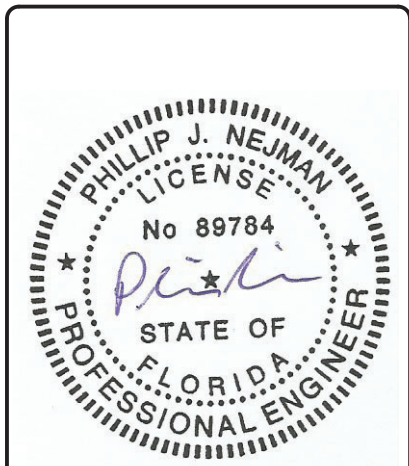
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 NEWBERRY, FL 32669

A&E FIRM:  
  
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 ALPHARETTA, GA 30005  
 678-990-2338

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NEXTOWER SITE NAME:  
 N. ALACHUA  
 NXFL-358

TOWER OWNER:  
 NEXTOWER

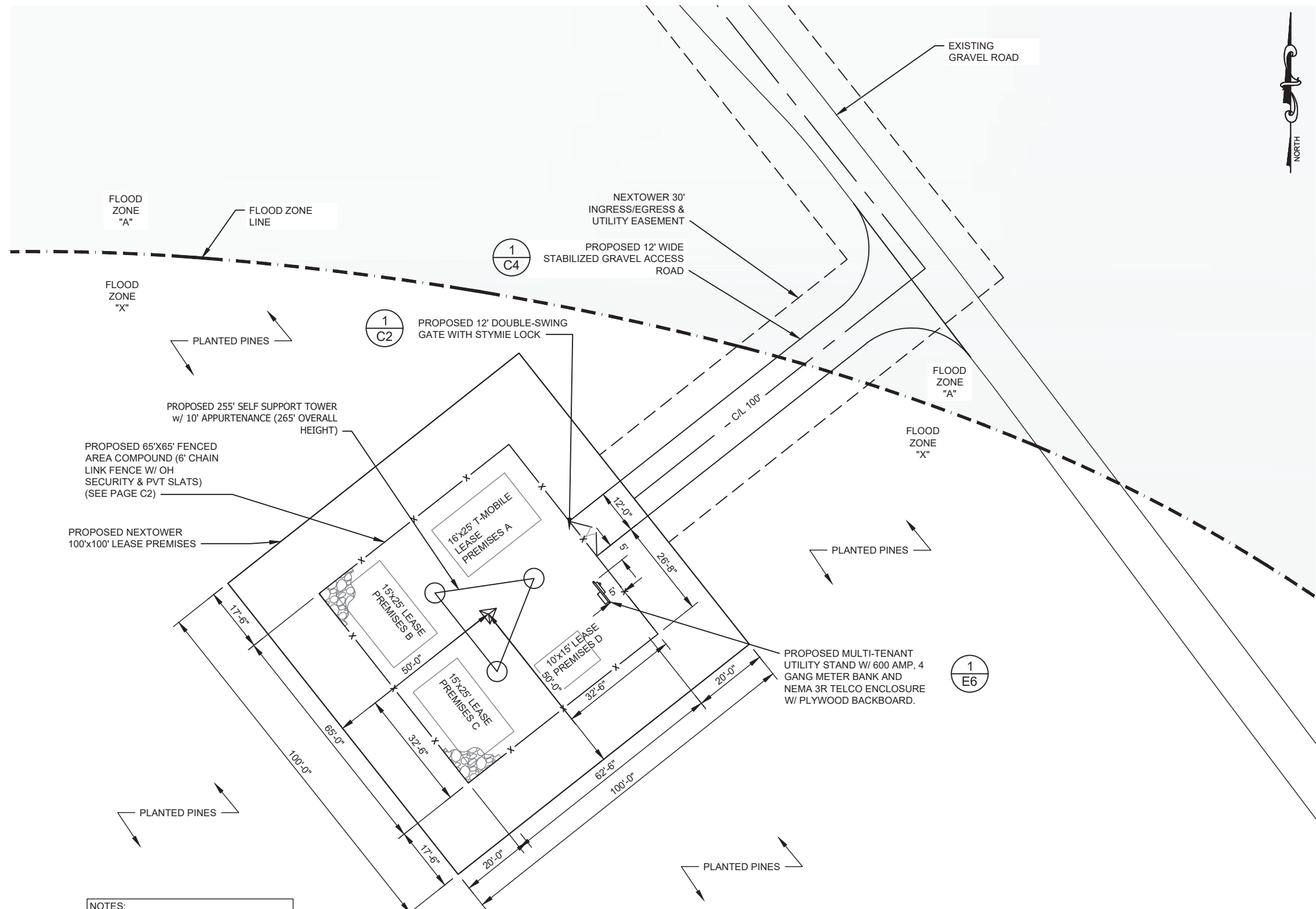
DESIGN TYPE:  
 RAWLAND

SHEET TITLE:  
 OVERALL SITE PLAN

DRAWING NO.  
**C1B**

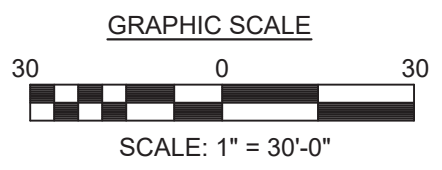


CHINESE TALLOW, AN INVASIVE SPECIES, AND ALL INVASIVE, NONNATIVE PLANT SPECIES AS LISTED ON THE FLORIDA PROHIBITED AQUATIC PLANTS LIST OR THE FLORIDA NOXIOUS WEED LIST SHALL BE REMOVED FROM DEVELOPMENT AREA PRIOR TO ISSUANCE OF THE CERTIFICATION OF OCCUPANCY.



- NOTES:**
- EXISTING VEGETATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE.
  - NOT LANDSCAPING IS PROPOSED AS PART OF THIS PROJECT.
  - NO IRRIGATION/WELL IS PROPOSED AS PART OF THIS PROJECT.

**1**  
**C1** OVERALL SITE PLAN  
SCALE : 1" = 30'



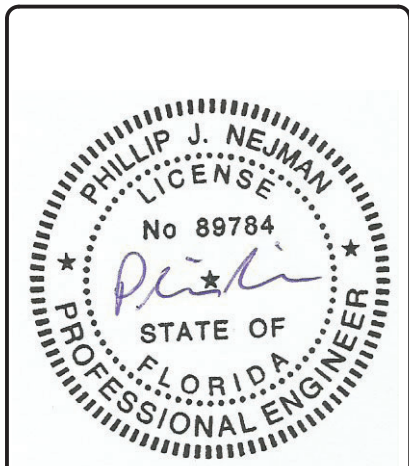
PREPARED FOR:  
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NEWBERRY, FL 32669

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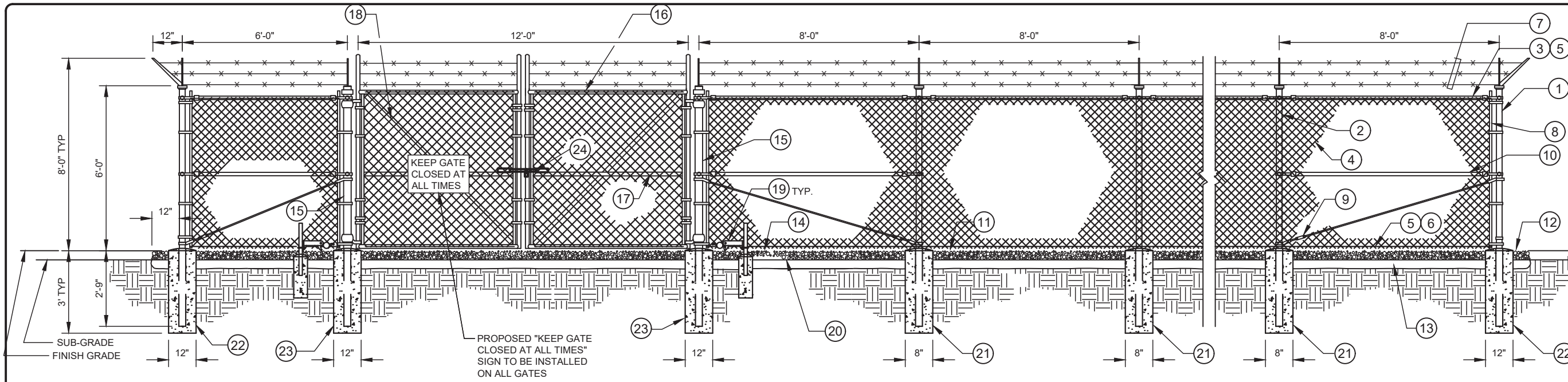
NEXTOWER SITE NAME:  
**N. ALACHUA  
NXFL-358**

TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

SHEET TITLE:  
**DETAILED SITE PLAN**

DRAWING NO.  
**C1C**



**1 FENCE DETAILS**  
C2 NOT TO SCALE

**REFERENCE NOTES:**

- ① CORNER, END OR PULL POST 3" NOMINAL SCHEDULE 40 PIPE.
- ② LINE POST: 2-1/2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.
- ③ TOP RAIL & BRACE RAIL: 1-1/2" PIPE, PER ASTM-F1083.
- ④ FABRIC: 9 GA CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- ⑤ TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX. 24" INTERVALS.
- ⑥ TENSION WIRE: 9 GA. GALVANIZED STEEL.
- ⑦ BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH WITH FABRIC 14 GA, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- ⑧ STRETCHER BAR.
- ⑨ 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
- ⑩ FENCE CORNER POST BRACE: 1-5/8" DIA. EACH CORNER EACH WAY.
- ⑪ 1-1/2" MAXIMUM CLEARANCE FROM GRADE.
- ⑫ 4" OF GRAVEL SHOULD BE SPREAD ON TOP OF GEO FABRIC THROUGHOUT COMPOUND AND 12" TO 18" OUTSIDE FENCE.
- ⑬ 4" COMPACTED 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.
- ⑭ FINISH GRADE SHALL BE UNIFORM AND LEVEL.
- ⑮ GATE POST 6". SCHEDULE 40 PIPE, FOR CATTLE GATE AND GATE WIDTHS UP THRU 7 FEET OR 14 FEET FOR DOUBLE SWING GATE, PER ASTM-F1083.
- ⑯ GATE FRAME: 1-1/2" PIPE, PER ASTM-F1083.
- ⑰ GATE FRAME; 1-5/8" DIAMETER PIPE, PER ASTM-F1083.
- ⑱ GATE DIAGONAL GALVANIZED STEEL 1-1/2" PIPE.
- ⑲ DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION.
- ⑳ GEOTEXTILE FABRIC.
- ㉑ LINE POST: CONCRETE FOUNDATION (2000 PSI).
- ㉒ CORNER POST: CONCRETE FOUNDATION (2000 PSI).
- ㉓ GATE POST: CONCRETE FOUNDATION (2000 PSI).
- ㉔ CONTRACTOR TO PROVIDE STYME LOCK SYSTEM AND PROGRAMMABLE 4 DIGIT COMBINATION LOCK.

**GENERAL NOTES:**

1. INSTALL FENCING PER ASTM F-567
2. INSTALL SWING GATES PER ASTM F- 900
3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED.
4. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 1-1/2" GALV. (UNLESS NOTED OTHERWISE) (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
5. ALL OPEN POSTS SHALL HAVE END-CAPS.
6. USE GALVANIZED HOG-RING WIRE TO MOUNT ALL SIGNS.
7. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC.



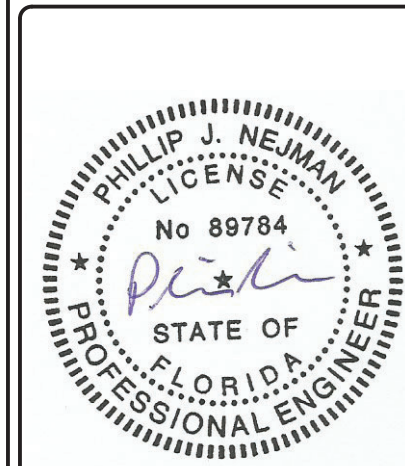
**CHAIN LINK FENCE WITH GREEN PVT PRIVACY SLATS**

**2 C2 NOT TO SCALE**  
GREEN PLASTIC VERTICAL SLATS TO BE INSTALLED PROVIDING 80% OPACITY

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CHECKED BY:	BAA

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NEXTOWER SITE NAME:	N. ALACHUA NXFL-358
TOWER OWNER:	NEXTOWER
DESIGN TYPE:	RAWLAND

SHEET TITLE:  
**FENCE, GATE, AND COMPOUND DETAILS**

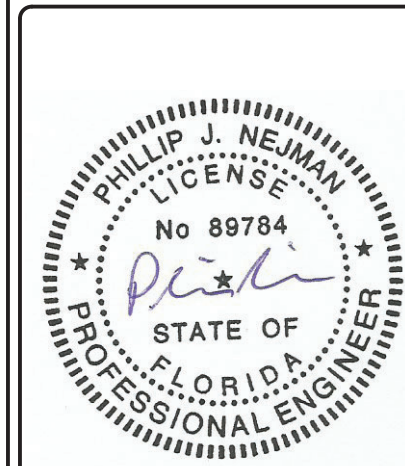
DRAWING NO.  
**C2**



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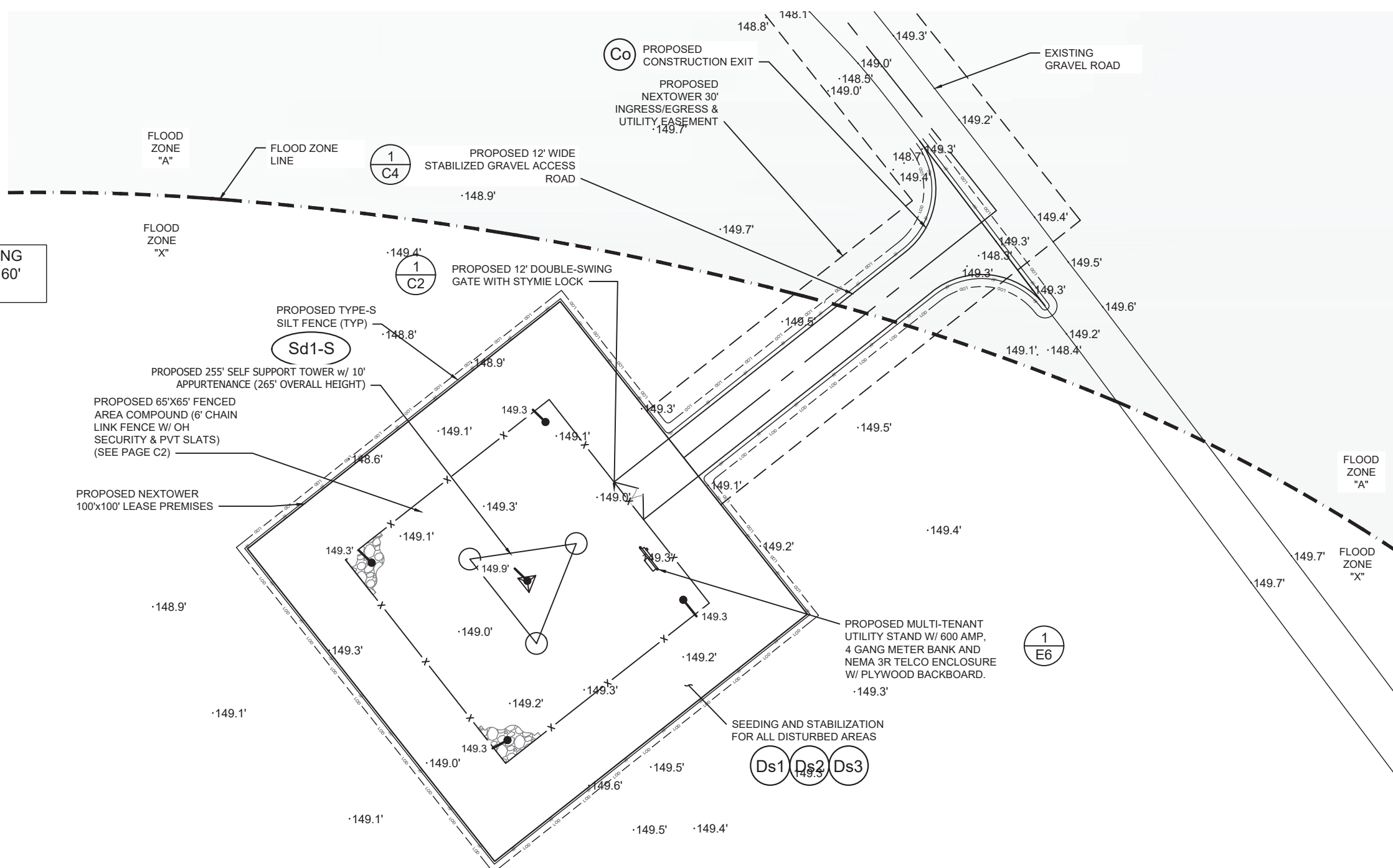
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NEXTOWER SITE NAME:	N. ALACHUA NXFL-358
TOWER OWNER:	NEXTOWER
DESIGN TYPE:	RAWLAND

SHEET TITLE:  
**GRADING AND EROSION CONTROL PLAN**

DRAWING NO.  
**C3**



NO GRADING OR CLEARING OF TREES WITHING THE 60' WETLAND BUFFER


MINIMAL TO NO GRADING REQUIRED

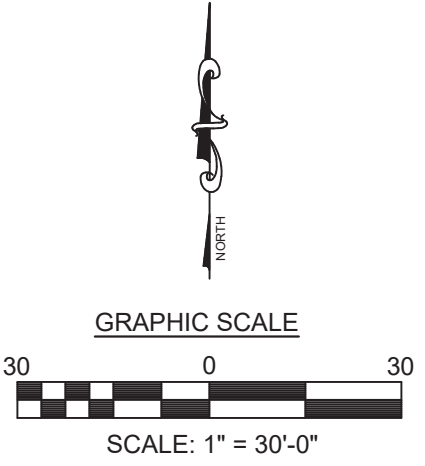
**1 C3 GRADING & EROSION CONTROL PLAN**  
 SCALE: 1" = 30'-0"

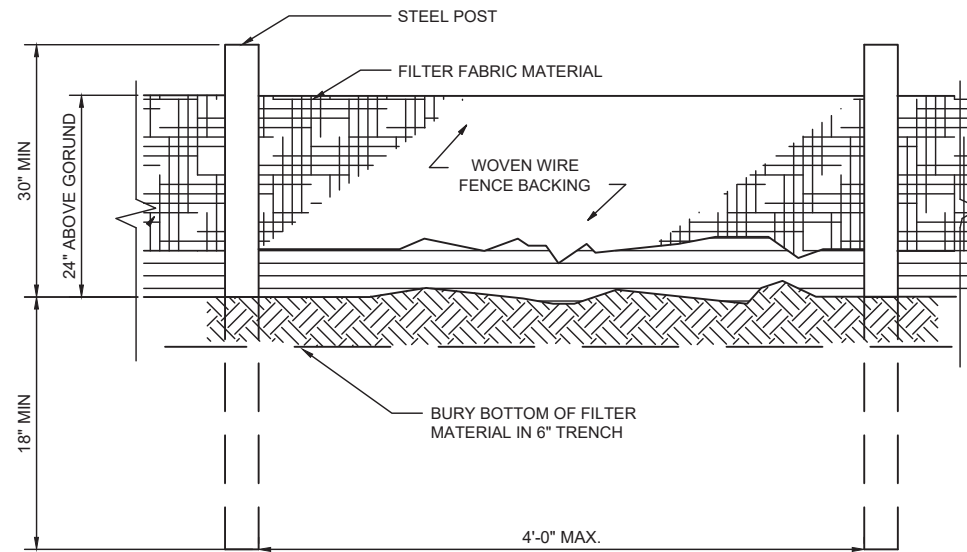
PROJECT AREA CALCULATIONS			
	COMPOUND SQFT	ACCESS SQFT	TOTAL SQFT/ACRES
TOTAL PROJECT AREA	10,000	1,795	11,795/0.27
TOTAL IMPERVIOUS AREA (CONCRETE, INCLUDING FUTURE)	1,285	0	1,285/0.0297
TOTAL SEMI-IMPERVIOUS AREA	8,715	1,795	10,510/0.241
TOTAL OPEN AREA (NEW GRASS/LANDSCAPING)	6,400	0	6,400/0.146

NOTE:  
 CURRENT DESIGN ANTICIPATES APPROXIMATELY 11,795± SQ. FT. (0.27 ACRES) OF DISTURBED LAND. IF ADDITIONAL DISTURBANCE IS REQUIRED BEYOND WHAT IS SHOWN IN THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR CONSTRUCTION MANAGER.

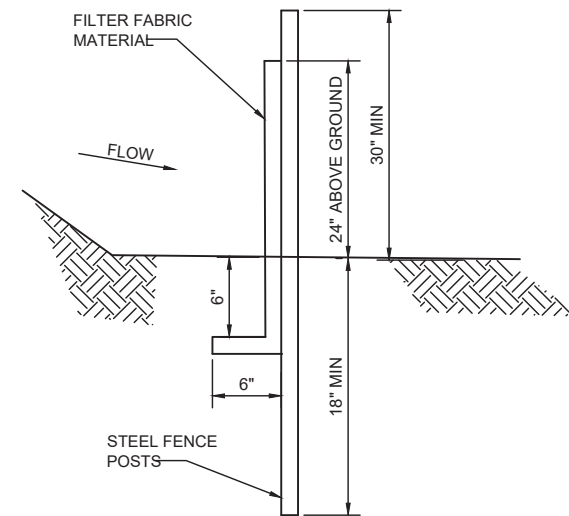
**LEGEND**

EXISTING CONTOURS	---
PROPOSED CONTOURS	_____
SILT FENCE	///
LIMITS OF DISTURBANCE	--- LOD --- LOD ---
TREE PROTECTION FENCE	--- TPF ---
EXISTING SPOT ELEVATION	x XXX
PROPOSED SPOT ELEVATION	● XXX
TREE TO BE REMOVED	





**NOTE:** USE 36" DOT APPROVED FABRIC USE STEEL POSTS



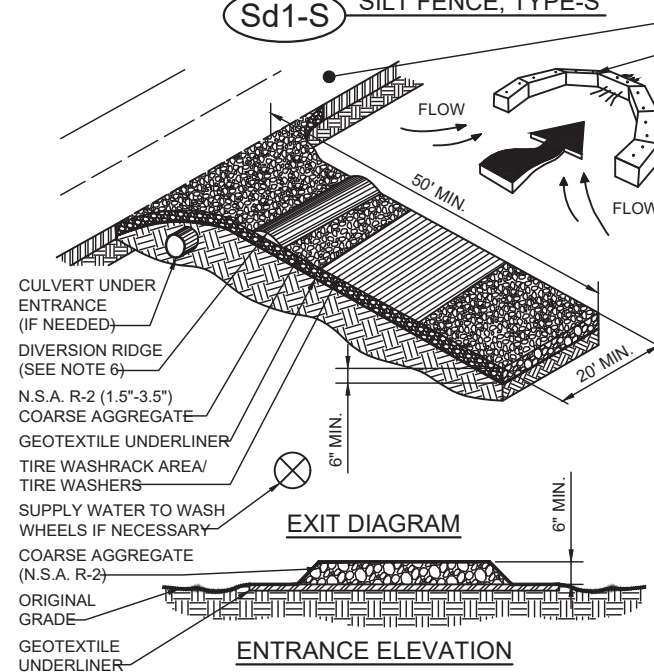
SILT FENCE SHALL MEET THE REQUIREMENTS OF TEMPORARY SILT FENCE OF THE STATE STANDARD SPECIFICATIONS, LATEST EDITION, AND BE WIRE REINFORCED.

DISTURBED AREAS LEFT IDLE SHALL BE STABILIZED WITH TEMPORARY VEGETATION AFTER 14 DAYS; AFTER 30 DAYS PERMANENT VEGETATION SHALL BE ESTABLISHED.

**MAINTENANCE STATEMENT:**  
EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR.

ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.

**Sd1-S SILT FENCE, TYPE-S**



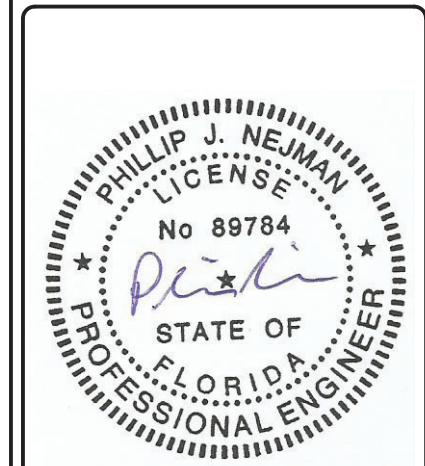
- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**Co CRUSHED STONE CONSTRUCTION EXIT**

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NO.	DATE	DESCRIPTION
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0	10/05/23	ISSUED FOR CONSTRUCTION



10/05/2023

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NEXTOWER SITE NAME:  
**N. ALACHUA  
 NXFL-358**

TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

SHEET TITLE:  
**GRADING AND EROSION  
 CONTROL DETAILS**

DRAWING NO.  
**C3A**



**EXCAVATION & GRADING NOTES:**

- ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
- CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
- ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS AND SO FORTH BEFORE AND AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING.
- BACKFILLING SHALL:
  - USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE;
  - BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS
  - BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR IS REQUIRED.
- FILL PREPARATION:
  - REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
- PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
- REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
- DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
- ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
- ALL CUT AND FILL SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL MAXIMUM.
- REMOVE ALL ORGANICS, ROCKS GREATER THAN 3", UNUSED FILL AND OTHER DEBRIS TO AN AREA OFF SITE IN A LEGAL MANNER.
- CONTRACTOR SHALL ENSURE THAT SOILS ARE SUITABLE TO PREVENT SETTLING OF PLATFORM AND EQUIPMENT.

ACTIVITY SCHEDULE	
WORK DESCRIPTION	WORKING DAYS
INSTALLATION OF EROSION CONTROL MEASURES	1-2
CLEARING, GRUBBING, AND GRADING	3-5
MAINTAINING EROSION CONTROL MEASURES	6-8
TEMPORARY GRASSING	9-12
BUILDING CONSTRUCTION	13-19
FINAL LANDSCAPING, GRASSING	20-23
REMOVING EROSION CONTROL MEASURES	24-26

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

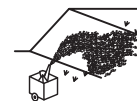
**GENERAL NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND OR REGULATIONS APPLICABLE TO THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE NEXTOWER CONSTRUCTION MANAGER AND/OR ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH WORK. WHERE THERE IS A CONFLICT BETWEEN DRAWING AND NEXTOWER SPECIFICATIONS, THE NEXTOWER CONSTRUCTION MANAGER SHOULD BE CONTACTED FOR CLARIFICATION.
- ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE NEXTOWER CONSTRUCTION MANAGER AND /OR ENGINEER SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE CONSTRUCTION MANAGER AND/OR ENGINEER.
- CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH SITE CONDITIONS AS SHOWN ON THE ATTACHED SITE PLAN AND/OR SURVEY DRAWINGS.
- ALL FINISHED GRADES SHALL SLOPE MINIMUM 1/4 IN./FR. AWAY FROM EQUIPMENT IN ALL DIRECTIONS. CONTRACTOR SHALL SLOPE SWALES AS REQUIRED ALONG EXISTING TERRAIN TO DRAIN AWAY FROM COMPOUND AND ACCESS DRIVE.
- THE PROPOSED TOWER AND TOWER FOUNDATIONS WERE DESIGNED BY OTHERS. TOWER INFORMATION PROVIDED ON THESE PLANS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. TOWER DIMENSIONS SHOWN THIS PLAN ARE FOR TOWER CENTER LOCATION. CAISSONS AND TOWER SHOWN ON THIS PLAN ARE ILLUSTRATIVE. SEE DESIGN DRAWINGS BY OTHERS. DO NOT SCALE. NOTIFY ENGINEER OR NEXTOWER CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES. CONTRACTOR TO OBTAIN COPY OF TOWER DESIGN DRAWINGS FROM NEXTOWER CONSTRUCTION MANAGER TO CONFIRM COAX ROUTING AND ANTENNA MOUNT INFORMATION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE EXCAVATION SLOPING SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINATES.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE EXISTING ACCESS ROAD AND COMPOUND GRAVEL AREAS. ANY NEW FILL MATERIAL SHALL BE COMPACTED.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR COMMENCING CONSTRUCTION, HE/SHE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND SHALL REQUEST A VERIFICATIONS AT THE CONSTRUCTION SITE OF THE LOCATIONS OF THEIR UNDERGROUND UTILITIES AND WHERE THEY MAY POSSIBLY CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS AS SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THEIR CONTRACT WILL BE REQUIRED TO NOTIFY "STATE 811" IN ADVANCE OF PERFORMING ANY WORK. ANY UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER.
- CONTRACTOR TO PROVIDE DUMPSTER AND PORTABLE TOILET FACILITY DURING CONSTRUCTION.
- CONTRACTOR TO PROVIDE STYMIE LOCK OR EQUIVALENT AS APPROVED BY NEXTOWER CONSTRUCTION MANAGER.



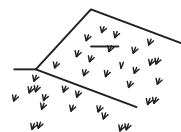
**DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**

Ds1  
NO SCALE



**DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)**

Ds2  
NO SCALE



**DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)**

Ds3  
NO SCALE

**GENERAL EROSION & SEDIMENT CONTROL NOTES:**

- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. CONTRACTOR SHALL CALL APPROPRIATE COUNTY FOR AN INSPECTION OF SOIL EROSION CONTROL MEASURES PRIOR TO BEGINNING GRADING ACTIVITY. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED.
- THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR ELECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
- SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH SEEDING.
  - SEEDING:
    - A. SEEDING WITH MULCH (CONVENTIONAL SEEDING ON SLOPES LESS THAN 3:1) (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)
 

SEED SPECIES	APPLICATION RATE/ACRE	PLANNING DATES
HULLED COMMON BERMUDA GRASS	10lbs.	3/1 - 6/15
FESCUE	50lbs.	9/1 - 10/31
FESCUE RYE GRASS	50lbs. 50lbs.	11/1 - 2/28
HAY MULCH FOR TEMPORARY COVER	5000lbs.	6/15 - 8/31
    - B. TOPDRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL FERTILIZER (AMMONIUM NITRATE 33.5%) 300 lbs./acre
    - C. SECOND-YEAR-FERTILIZER: (5-10-15 OR EQUIVALENT) 800 lbs./acre
- HYDRAULIC SEEDING EQUIPMENT WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING, THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED.
- CONVENTIONAL SEEDING EQUIPMENT GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL.
- CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
- ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.
- ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
- THE ONLY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL. CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.
- A 25' MIN UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.

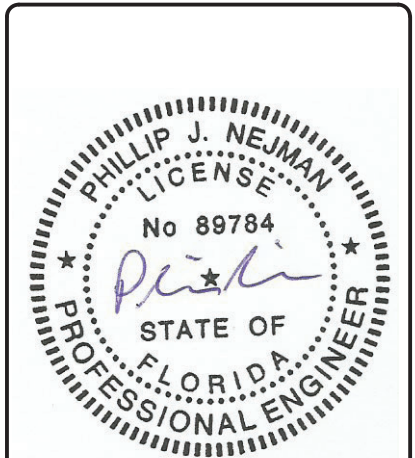
PREPARED FOR:  
  
 YOUR SIGNAL IS OUR EXPERIENCE  
 13577 NW 2ND LANE, SUITE 20  
 NEWBERRY, FL 32669

A&E FIRM:  
  
 1355 WINDWARD CONCOURSE  
 SUITE 410  
 ALPHARETTA, GA 30005  
 678-990-2338

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A&E PROJECT #:	NXFL-358
DRAWN BY:	JCR
CHECKED BY:	BAA

REVISIONS		
NO.	DATE	DESCRIPTION
A	07/12/23	ISSUED FOR REVIEW
0	10/05/23	ISSUED FOR CONSTRUCTION



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NEXTOWER SITE NAME:  
**N. ALACHUA  
 NXFL-358**

TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

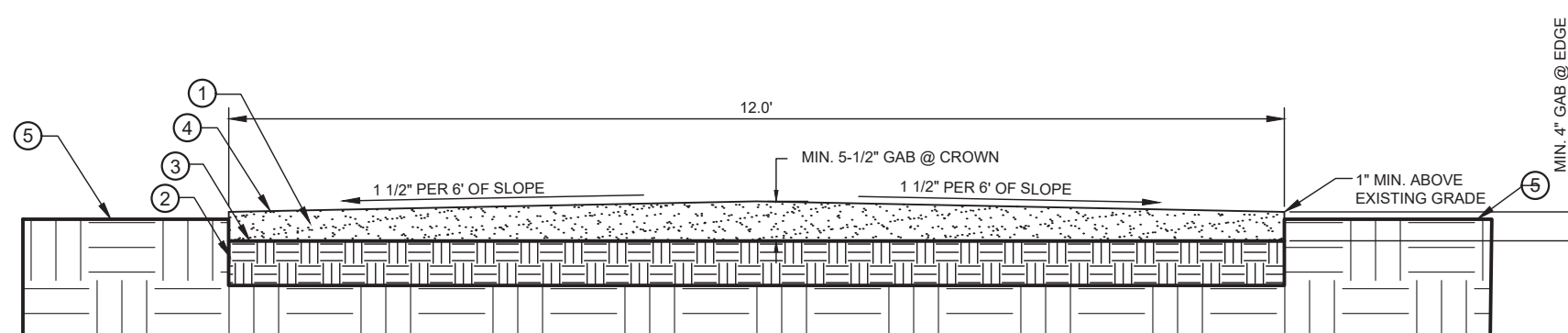
SHEET TITLE:  
**GRADING AND EROSION  
 CONTROL NOTES**

DRAWING NO.  
**C3B**

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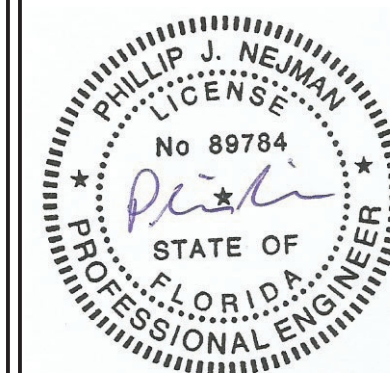
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**1**  
**C4**  
**TYPICAL GRAVEL ROAD CROSS SECTION**  
 NOT TO SCALE

\*\* CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING & GRUBBING THE CONSTRUCTION SITE AND ROADWAY AREAS. THE CONTRACTOR SHALL COMPLY, WHEN NECESSARY, WITH THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT PREPARED FOR THIS SITE FOR SITE WORK PREPARATION & FOUNDATION WORK. \*\*

1. REMOVE ALL ORGANIC MATERIAL. (STUMPS, ROOTS, LEAVES, ETC.) A MIN 3" OF SOIL TO BE REMOVED.
2. LEVEL AND COMPACT SUBGRADE TO A 95% COMPACTION.
3. INSTALL GEOTEXTILE FABRIC (AND/OR OTHER STABILIZATION METHOD) OVER SUBGRADE ON ALL ROADS.
4. INSTALL MIN. 4" OF GRADED AGGREGATE BASE (GAB/CRUSHER RUN) WITH 5-1/2" AT CROWN. GAB SHALL HAVE A 1-1/2" TO 6' SLOPE FROM CROWN. ALL GAB SHALL BE COMPACTED TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT.
5. EXISTING GRADE.



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NEXTOWER SITE NAME:  
 N. ALACHUA  
 NXFL-358

TOWER OWNER:  
 NEXTOWER

DESIGN TYPE:  
 RAWLAND

SHEET TITLE:  
 ACCESS ROAD DETAILS

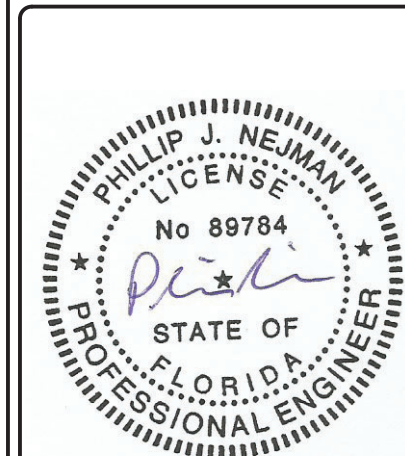
DRAWING NO.  
**C4**



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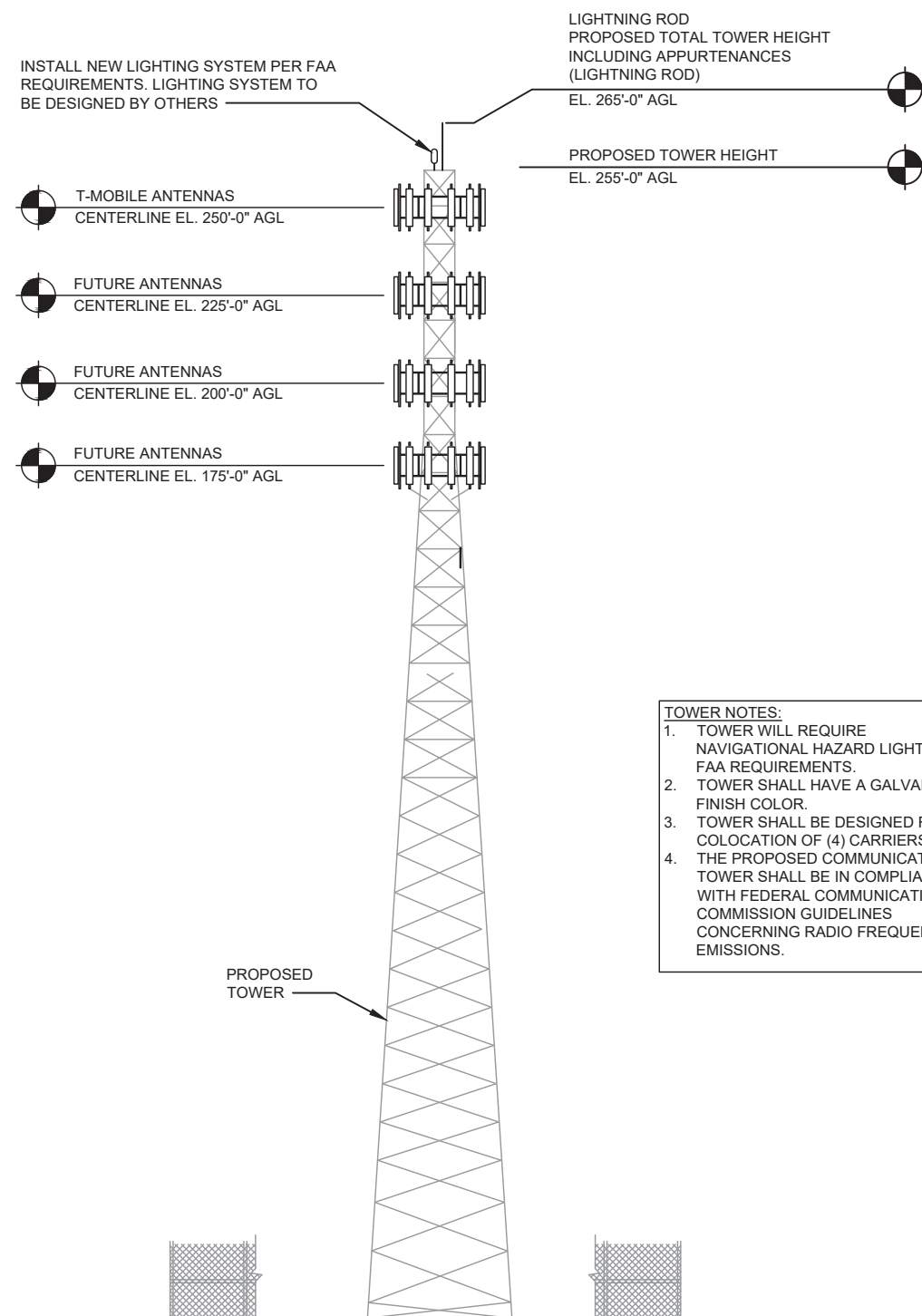
NEXTOWER SITE NAME:  
 N. ALACHUA  
 NXFL-358

TOWER OWNER:  
 NEXTOWER

DESIGN TYPE:  
 RAWLAND

SHEET TITLE:  
 TOWER ELEVATION

DRAWING NO.  
**C5**



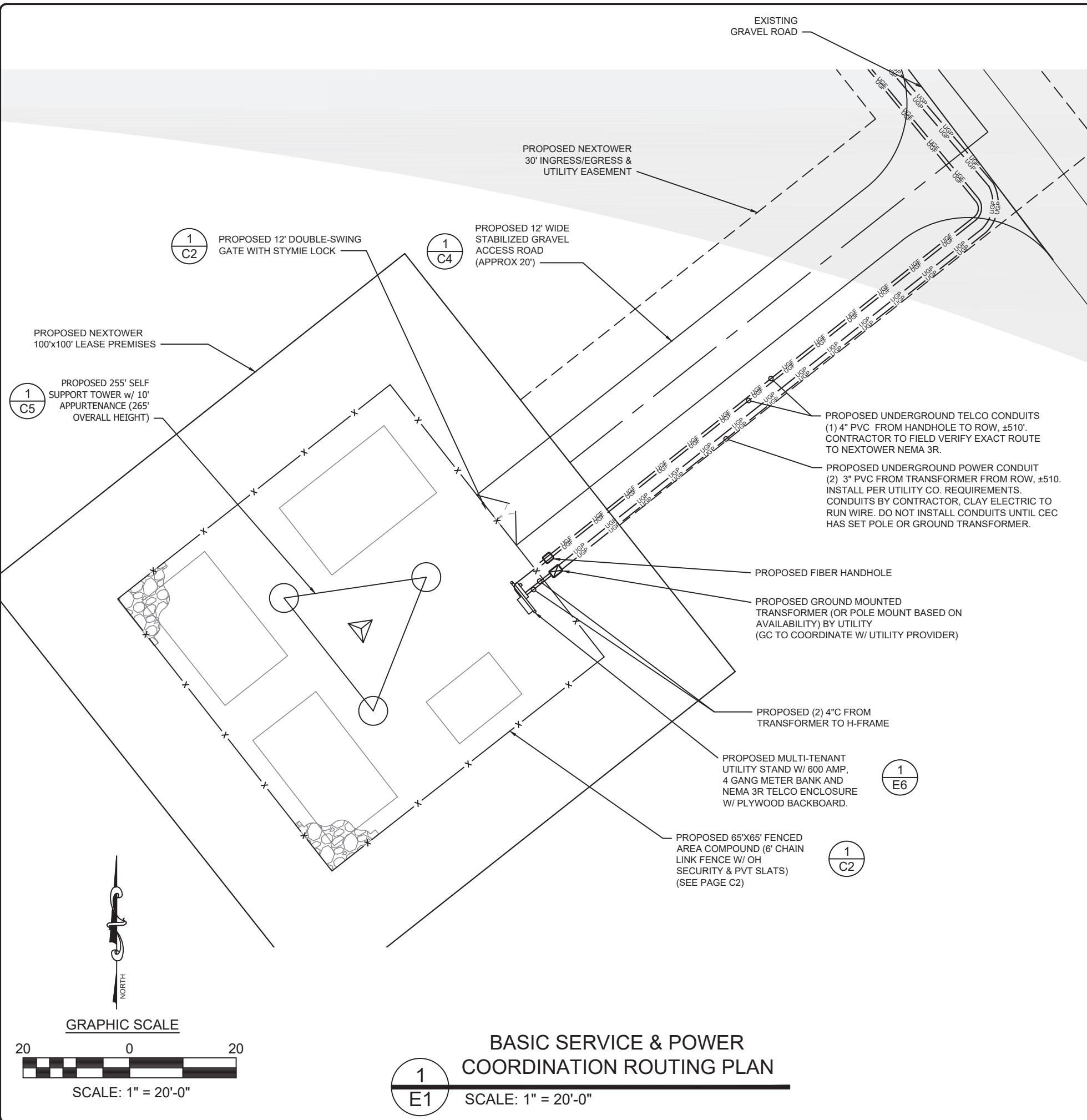
- TOWER NOTES:**
1. TOWER WILL REQUIRE NAVIGATIONAL HAZARD LIGHTS PER FAA REQUIREMENTS.
  2. TOWER SHALL HAVE A GALVANIZED FINISH COLOR.
  3. TOWER SHALL BE DESIGNED FOR COLOCATION OF (4) CARRIERS.
  4. THE PROPOSED COMMUNICATION TOWER SHALL BE IN COMPLIANCE WITH FEDERAL COMMUNICATION COMMISSION GUIDELINES CONCERNING RADIO FREQUENCY EMISSIONS.



**NOTE:**  
 CONTRACTOR TO COORDINATE SITE SIGNAGE WITH NEXTOWER CM. NEXTOWER TO PROVIDE RF AND IDENTIFICATION SIGNS AT TIME OF CONSTRUCTION.

**2**  
**C5** TELECOMMUNICATIONS SIGN DETAIL  
 NOT TO SCALE

**NOTE:**  
 ELEVATION DRAWING SHOWN FOR GENERAL REFERENCE ONLY AND NOT USED FOR THE PURPOSE OF CONSTRUCTION. REFER TO TOWER MANUFACTURER DRAWING FOR DETAIL & SPECIFICATIONS.



**ELECTRICAL NOTES AND SPECIFICATIONS:**

- ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE, AND LOCAL CODES.
- CONTRACTOR SHALL OBTAIN OWNER/TENANT SPECIFICATIONS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER/TENANT SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL UTILITY FOR THE EXACT TRANSFORMER LOCATION, METERING REQUIREMENTS, AND SERVICE ROUTING. CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR THE EXACT TELEPHONE REQUIREMENTS AND SERVICE ROUTING.
- PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANEL BOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10,000 AMPS.
- CONTRACTOR TO PROVIDE 2-200 LB TEST POLYETHYLENE PULL CORDS SECURELY FASTENED AT EACH END OF POWER AND TELCO CONDUIT. PROVIDE CAPS ON ENDS OF UNUSED CONDUIT.
- CONTRACTOR TO PROVIDE A REBAR MARKER WITH AT LEAST 2 FEET EXPOSED ABOVE GRADE AND PAINTED BRIGHT ORANGE TO INDICATE LOCATION OF CONDUIT CAPPED BELOW GRADE.
- PRIOR TO TRENCHING, CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR AT CONTRACTOR'S EXPENSE ANY DAMAGE TO EXISTING UTILITIES.
- CONTRACTOR TO VERIFY EXACT ROUTING OF POWER AND TELCO CONDUIT WITH LOCAL UTILITIES AND OWENR/TENANT. ENSURE ALL CONDUIT STUB-UPS ACCOMMODATE EQUIPMENT REQUIREMENTS.
- UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE. USE RIGID GALVANIZED STEEL CONDUIT UNDER ROADS. USE LONG-SWEEP RIGID GALVANIZED STEEL (RGS) FOR ELBOWS. USE RGS FOR RISERS TO EQUIPMENT. MANUFACTURED BENDS SHALL HAVE A MINIMUM RADIUS OF 24" FOR CONDUIT.
- CONDUIT RUNS SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE EQUIPMENT TO ALLOW WATER TO FLOW AWAY FROM THE EQUIPMENT AND SHELTER. EXCAVATE TRENCHES ALONG STRAIGHT LINES PRIOR TO INSTALLING CONDUIT TO ACCOMMODATE ADJUSTING THE ELEVATION, AS NEEDED.
- CONDUIT ENTERING EQUIPMENT SHALL BE SEALED WITH A SEALANT THAT IS IDENTIFIED FOR USE WITH THE CABLE. CONDUCTOR INSULATION, SHIELDING, ETC.
- THE OWNER SHALL FURNISH AND THE CONTRACTOR SHALL INSTALL ADDITIONAL SIGNAGE TO BE LOCATED AT THE COMPOUND FENCE. CONTRACTOR SHALL COORDINATE WITH OWNER/TENANT NEXTOWER CONSTRUCTION MANAGER FOR PLACEMENT OF SIGNAGE.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE LANDSCAPING AREA.
- IF GENERATOR/FUEL CELL IS INSTALLED, CONTRACTOR SHALL PROVIDE A LABEL TO READ: "OPENING THE DISCONNECT WILL CAUSE THE GENERATOR TO START. TO REMOVE POWER ENTIRELY FROM THE EQUIPMENT, THE GENERATOR MUST BE TURNED OFF AND THE GENERATOR BREAKER MUST BE OPENED."
- CONTRACTORS SHALL ENSURE A MINIMUM 3' CLEARANCE IN FRONT OF ELECTRICAL PANELS PER NEC.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.

**CONDUIT ROUTING NOTE:**

- CONTRACTOR TO PROVIDE PULL BOXES AS NEEDED TO ENSURE NO GREATER THAN 360 DEGREES OF BENDS BETWEEN PULL POINTS IN CONDUIT RUNS.
- CONTRACTOR COORDINATE WITH LOCAL UTILITY COMPANY FOR SERVICE TO THIS POINT.
- ALL CONDUIT TO BE RUN WITHIN 2' UTILITY BUFFER AS SHOWN ON CIVIL PLANS. CONDUIT SHOWN OUTSIDE OF 2' UTILITY BUFFER FOR CLARITY PURPOSES ONLY.

PREPARED FOR:  
  
 YOUR SIGNAL IS OUR EXPERIENCE  
 13577 NW 2ND LANE, SUITE 20  
 NEWBERRY, FL 32669

A&E FIRM:  
  
 1355 WINDWARD CONCOURSE  
 SUITE 410  
 ALPHARETTA, GA 30005  
 678-990-2338

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A&E PROJECT #:	NXFL-358
DRAWN BY:	JCR
CHECKED BY:	BAA

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NO.	DATE	DESCRIPTION
A	07/12/23	ISSUED FOR REVIEW
0	10/05/23	ISSUED FOR CONSTRUCTION

10/05/2023

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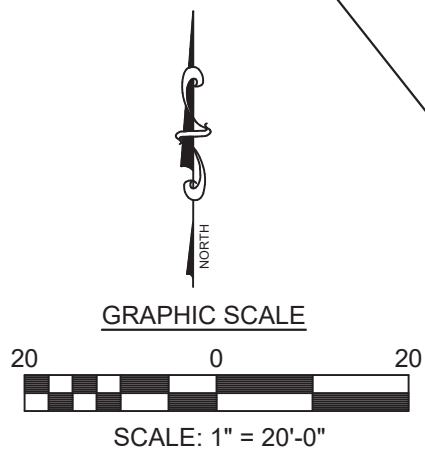
NEXTOWER SITE NAME:  
**N. ALACHUA  
 NXFL-358**

TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

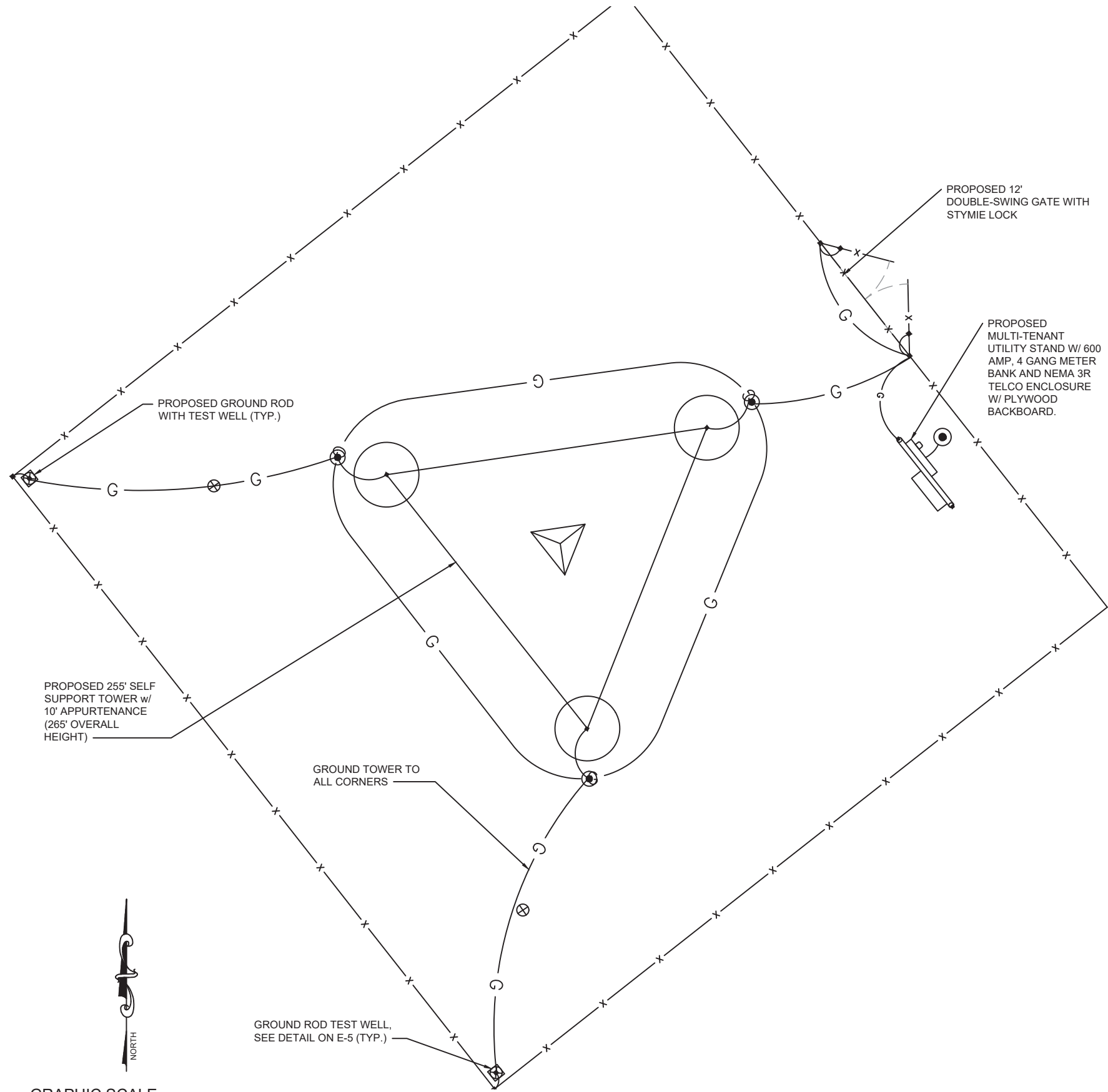
SHEET TITLE:  
**BASIC SERVICE AND POWER  
 COORDINATION ROUTING PLAN**

DRAWING NO.  
**E1**



**1 E1**  
**BASIC SERVICE & POWER  
 COORDINATION ROUTING PLAN**  
 SCALE: 1" = 20'-0"





**GROUNDING NOTES AND SPECIFICATIONS:**

1. THE GROUND RING SHALL CONSIST OF 2 AWG TINNED SOLID BARE COPPER CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 30" BELOW FINISHED GRADE ( OR BELOW FROSTLINE). ALL CONNECTIONS SHALL BE MADE USING AN EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.
2. GROUND CONDUCTOR BEND RADIUS SHALL NOT BE LESS THAN 12"
3. GROUND RODS SHOULD BE SPACED 2X HEIGHT APART AROUND COMPOUND GROUND RING. (EX. 10' ROD SHOULD BE SPACED 20' APART). MINIMUM SPACING BETWEEN GROUND RODS IS 10' UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL BOND THE TOWER GROUND BAR (TOGB) TO THE GROUND RING USING A 2 AWG TINNED SOLID BARE COPPER CONDUCTOR AND AN EXOTHERMIC WELD.
5. CONTRACTOR SHALL BOND THE MAIN GROUND BAR (MGB) & EXTERNAL GROUND BAR (GB2) TO THE GROUND RING USING 2 AWG TINNED SOLID BARE COPPER CONDUCTORS AND EXOTHERMIC WELDS.
6. ALL GROUNDING/BONDING CONDUCTORS LOCATED ABOVE FINISHED GRADE SHALL BE RUN IN 1/2" FLEX CONDUIT.
7. CONTRACTOR SHALL NOTIFY THE OWNER/TENANT ECO-SITE CONSTRUCTION MANAGER TO INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.

**LEGEND:**

- — G — GROUND ROD EXOTHERMICALLY WELDED TO GROUND RING
- G — GROUND RING
- ⊗ GROUND ROD TEST WELL
- EXOTHERMIC WELD TYPE CONNECTION
- PARALLEL CADWELD
- ▲ MECHANICAL CONNECTION

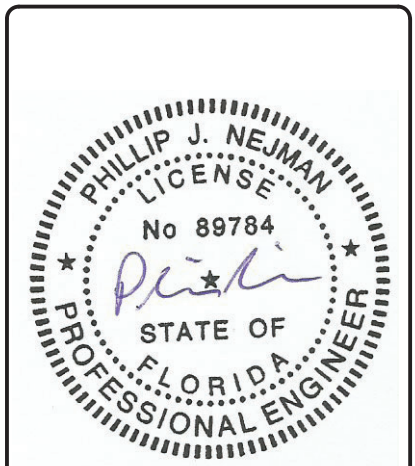
**GROUNDING NOTES:**

1. **TOWER GROUNDING:** EXTEND #2 SOLID TINNED CU WIRE FROM EQUIPMENT GROUND RING TO TOWER GROUND RING AND MAKE EXOTHERMIC CONNECTION.
2. **GROUND ROD:** COPPER CLAD STEEL , 5/8"Ø TEN (10) FEET LONG.
3. **ICE BRIDGE SUPPORT POST GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO ALL ICE BRIDGE SUPPORT POST AND EXOTHERMICALLY WELD.
4. **FENCE GROUNDING:** IF FENCE IS WITHIN 6' OF GROUNDING RING, EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO FENCE CORNER POSTS AND EXOTHERMICALLY WELDED. BOND INTERMEDIATE POST IF REQUIRED TO MAINTAIN 25' MAX. SPACING.
5. **TOWER GROUNDING BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE TOWER GROUND BAR AND MAKE A MECHANICAL CONNECTION SECURE GROUND BAR DIRECTLY TO TOWER WITH ISOLATOR KIT USING STAINLESS STEEL MOUNTING MATERIAL.
6. **CABINET GROUNDING:** BOND EACH CABINET TO EQUIPMENT GROUND RING WITH A MECHANICAL CONNECTION AT CABINET AND EXOTHERMIC WELD AT GROUND RING.
7. **MULTI TENANT UTILITY FRAME:** BOND TELCO BOX AND FRAME POST TO COMPOUND GROUND RING WITH MECHANICAL CONNECTION AT CABINET AND EXOTHERMIC WELD AT GROUND RING. BOND METER TO ISOLATED GROUND ROD.
8. **ANTENNA GROUND BAR:** MOUNT GROUND BAR DIRECTLY TO THE TOWER AT TOP OF COAX RUNS. SECURE TO TOWER WITH ISOLATOR KIT USING STAINLESS STEEL MOUNTING MATERIAL.
9. **FENCE/GATE:** BOND ALL FENCEPOSTS AND GATES TO COMPOUND GROUND RING WITH EXOTHERMIC WELDS.
10. **EXTERIOR GFCI RECEPTACLE GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO THE EXTERIOR GFCI RECEPTACLE AND MAKE A MECHANICAL CONNECTION.
11. **SSC AND FLEXI STAND,** SHALL BE MECHANICALLY LUGGED WITH EXOTHERMIC WELD TO THE GROUND RING (OR MECHANICALLY LUGGED TO A BUS BAR PLACED BETWEEN THEM ON THE PAD, WHICH IS THEN WELDED TO THE GROUND RING. UTILITY H-FRAME POSTS AND ICEBRIDGE SHALL BE WELDED.

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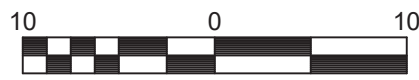
TOWER OWNER:  
 NEXTOWER

DESIGN TYPE:  
 RAWLAND

SHEET TITLE:  
 GROUNDING PLAN

DRAWING NO.  
 E2

GRAPHIC SCALE

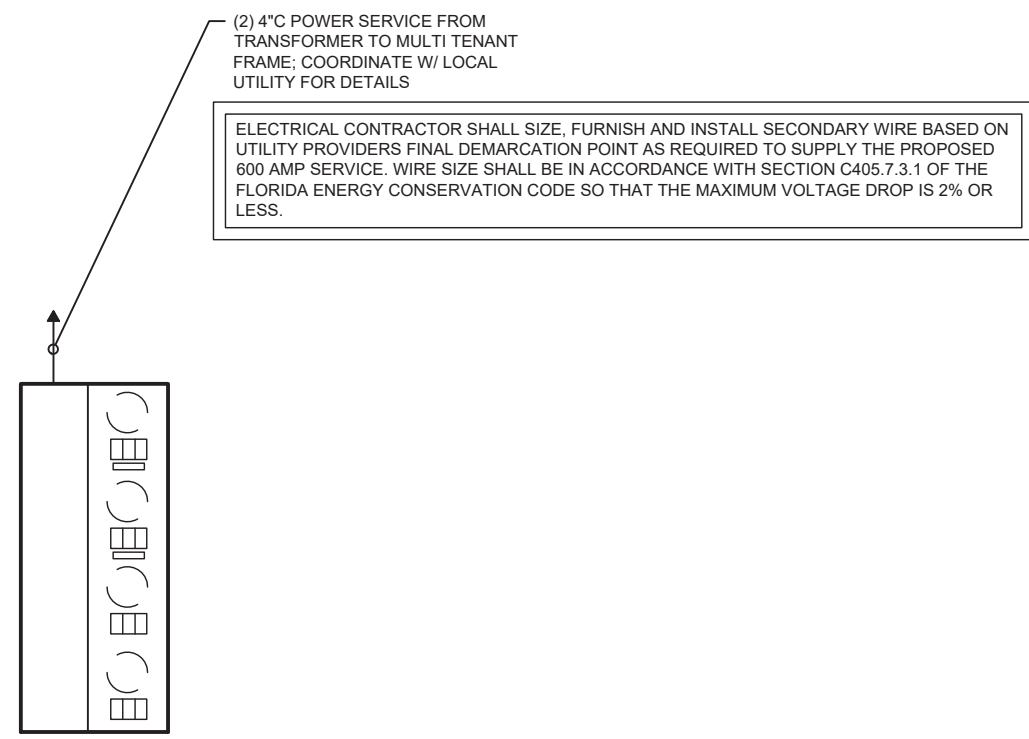


SCALE: 1" = 10'-0"

1  
 E2  
 GROUNDING PLAN  
 SCALE: 1" = 10'-0"

# CONTRACTOR INSTALLATION NOTES

1. SCOPE: PROVIDE LABOR, EQUIPMENT, MATERIALS, ETC., REQUIRED TO COMPLETE THE INSTALLATION SHOWN.
2. CODES AND STANDARDS: INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS, & APPLICABLE REQUIREMENTS OF LATEST EDITIONS OF CODES LIST ON GN-1.
3. PERMITS: OBTAIN & PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC..
4. COORDINATION: COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
5. SUBMITTALS: SUBMIT BROCHURES FOR APPROVAL ON DISCONNECT SWITCH & OTHER MAJOR SYSTEM COMPONENTS.
6. EXISTING SERVICES: DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
7. EQUIPMENT: CONNECT ELECTRICALLY OPERATED EQUIPMENT.
8. 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 OWNER UPON COMPLETION OF THE PROJECT.
9. IDENTIFICATION: IDENTIFY DISCONNECT SWITCH WITH PERMANENT ENGRAVED NAMEPLATE.
10. GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS. ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIALS AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY.
11. CUTTING & PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO & OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.
12. TRENCHING & BACKFILL: PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES.
13. RACEWAYS: UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT (MEETING NEMA TC2-1990). UNDERGROUND PVC CONDUIT SHALL TRANSITION TO RIGID GALVANIZED STEEL CONDUIT BEFORE RISING ABOVE GRADE OR WHEN SUBJECTED TO VEHICLE TRAFFIC LOADS. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 24" RADIUS. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. RGS CONDUIT, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. INTERIOR CONDUIT SHALL BE ELECTRICAL METALLIC TUBING WITH COMPRESSION TYPE FITTINGS.
14. SUPPORTS: AS REQUIRED BY THE NEC.
15. CONDUCTORS: USE 98% CONDUCTIVITY COPPER WITH TYPE THHN/THWN INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO #8 AWG. USE STRANDED CONDUCTORS FOR WIRE #8 AWG AND ABOVE.
16. CONNECTORS FOR POWER CONDUCTORS: USE PRESSURE TYPE INSULATED TWIST CONNECTORS FOR #10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR #8 AWG AND LARGER.
17. GROUNDING:
  - A. ALL MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & INSTRUCTIONS.
  - B. ALL CONNECTIONS SHALL BE 2- HOLE LUG UNLESS UNDERGROUND.
  - C. LUGS SHALL BE ATTACHED TO GROUND BARS USING STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL BOLTS, NUTS, & LOCKWASHERS.
  - D. PROVIDE TESTING OF GROUNDING SYSTEM AS DIRECTED BY CONSTRUCTION MANAGER.



(2) 4" C POWER SERVICE FROM TRANSFORMER TO MULTI TENANT FRAME; COORDINATE W/ LOCAL UTILITY FOR DETAILS

ELECTRICAL CONTRACTOR SHALL SIZE, FURNISH AND INSTALL SECONDARY WIRE BASED ON UTILITY PROVIDERS FINAL DEMARCATION POINT AS REQUIRED TO SUPPLY THE PROPOSED 600 AMP SERVICE. WIRE SIZE SHALL BE IN ACCORDANCE WITH SECTION C405.7.3.1 OF THE FLORIDA ENERGY CONSERVATION CODE SO THAT THE MAXIMUM VOLTAGE DROP IS 2% OR LESS.

**1** SINGLE LINE DIAGRAM  
**E3** NOT TO SCALE

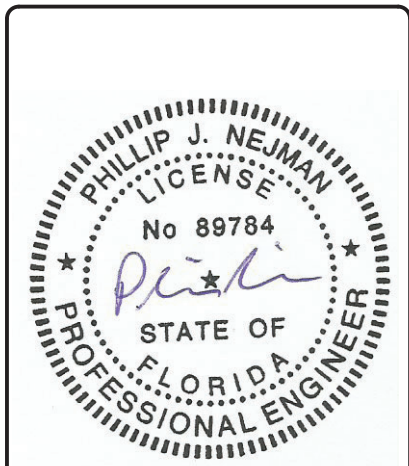
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TOWER OWNER:  
 NEXTOWER

DESIGN TYPE:  
 RAWLAND

SHEET TITLE:  
 SINGLE-LINE DIAGRAM

DRAWING NO.  
**E3**



**GREENFIELD GROUNDING NOTES:**

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 ABD 81) FOR GROUNDING ELECTRODE SYSTEMS THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO THE PREVENT ANY LOSS OF CONTINUITY IN THE GROUND SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (IE CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR SUCH AS METALLIC CONDUITS METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (EG NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

**GENERAL ELECTRICAL NOTES:**

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES.
- ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. CONDUITS EXPOSED ABOVE GROUND OR ROUTED UNDER GRAVEL ROAD SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND CONDUIT SHALL TRANSITION FROM PVC TO RIGID AT THE 90° BEND BELOW GRADE. SUPPLY UTILITY MARKING TAPE BURIED 12" BELOW GRADE ALONG ENTIRE LENGTH OF UNDERGROUND CONDUITS.

- ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. CONTROL CONDUCTORS SHALL BE STRANDED. POWER & LIGHTING CONDUCTORS SHALL BE SOLID FOR #10 & #12 CONDUCTORS AND STRANDED FOR ALL OTHER SIZES.
- ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH BUILDING STRUCTURE AND MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL SUPPORTS FOR ELECTRICAL EQUIPMENT WHERE THE BUILDING STRUCTURE IS NOT ADAPTED TO MOUNTING EQUIPMENT THEREON.
- LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER IMMEDIATELY.
- PROVIDE 200 LB TEST PULL WIRES IN EACH EMPTY TELEPHONE AND POWER CONDUIT.
- COORDINATE ALL CONDUIT STUB-UP LOCATIONS WITH UTILITY COMPANY.
- PROVIDE WEATHERPROOF SEALS FOR ALL CONDUIT STUB-UPS. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS NOT DUCT TAPE.
- CONDUIT TO BE INSTALLED PER NEC REQUIREMENTS. MAX OF (4) 90'S ALLOWED IN SINGLE RUN OF CONDUIT. IF MORE BENDS ARE REQUIRED INSTALL PULL BOX EVERY (4) 90'S, (4) BENDS, OR 150' IN LENGTH
- FIBER CONDUITS: CONDUITS TO BE INSTALLED FROM ROW OF PUBLIC ROAD TO COMPOUND. HAND HOLES TO BE INSTALLED IN ROW, AT COMPOUND AND EVERY 400' BETWEEN (OR AS DIRECTED BY UTILITY OR REQUIRED BY NEC). USE HIGHLINE PHA173030 12,000LB HAND HOLE OR APPROVED EQUIVALENT.
  - CONDUIT 1 (, WHEN PROVIDER IS TOWERCLOUD, SOUTHERNLIGHT, COX OR ZAYO):
    - 4" WITH (3) 1-1/4" INNER DUCTS WITH PULL STRING FROM HAND HOLE AT ROW OF STREET STRAIGHT TO NEMA BOX ON UTILITY FRAME.
    - CONDUIT 2" (WHEN PROVIDER IS AT&T OR WINDSTREAM):
      - GREENFIELDS AND COLS WHERE PROVIDER DOES NOT HAVE NEMA BOX IN COMPOUND:
        - 4" FROM FIBER PROVIDERS HAND HOLE AT ROW TO NEMA CABINET MOUNTED ON MULTI TENANT FRAME. AND ALSO FROM MULTI TENANT NEMA CABINET TO NEMA BOX ON UTILITY FRAME. (STUB UP CONDUIT IF FIBER PROVIDER IS NOT YET AT ROW)
        - COLS WHERE PROVIDER HAS EXISTING MULTI TENANT NEMA BOX IN COMPOUND: ONLY RUN (1) 4" C FROM EXISTING MULTI TENANT NEMA TO NEMA BOX ON UTILITY FRAME.
- \*CONSULT CM FOR CORRECT FIBER PROVIDER OPTION.
- \*CONTRACTOR RESPONSIBLE FOR ENSURING EASEMENT IS CORRECTLY MARKED IN FIELD BEFORE INSTALLING FIBER.

**GENERAL GROUNDING NOTES:**

- TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS:
  - #2 TINNED SOLID COPPER WIRE: EXOTHERMICALLY WELDED TO RODS OR GROUND RING
  - LUGS AND BUS BAR (UNLESS NOTED OTHERWISE): SANDED CLEAN, COATED WITH OXIDE INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.
- GROUND RODS SHOULD BE SPACED 2X HEIGHT APART AROUND COMPOUND GROUND RING. (EX. 10' ROD SHOULD BE SPACED 20' APART).
- CONSTRUCTION PROJECT MANAGER OR REPRESENTATIVE WILL BE PRESENT TO INSPECT EXOTHERMICALLY WELDS AND MEGGER TEST DURING BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED. IF COMPOUND GROUND RING AND RODS DON'T MEET REQUIREMENTS THEN CONTINUE GROUND RING DOWN EASEMENT WITH GROUND RODS SPACED AT 2X HEIGHT APART.
- DO NOT INSTALL GROUND RING OUTSIDE OF LEASED AREA.
- MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS SHALL BE A MINIMUM 12" RADIUS AND NO GREATER THAN 90 DEGREES.
- ALL EXOTHERMIC WELDS TO BURIED GROUND RING SHALL BE THE PARALLEL TYPE, EXCEPT FOR THE GROUND RODS WHICH SHALL BE THE TEE TYPE.
- BOND DOOR FRAMES, HANDRAILS, UNUSED HATCH PLATES AND MISCELLANEOUS LIFTING EYE/PLATES TO GROUND RING. BOND METAL AWNING TO DOOR FRAME.
- BOND SERVICE CONDUITS TO GROUND RING AS THEY CROSS. DO NOT EXOTHERMICALLY WELD TO CONDUITS.
- ALL BUS BAR SHALL BE GALVANIZED. ALL CONNECTIONS TO BUS BAR ARE TO BE 2 - HOLE LUGS.

**ELECTRICAL INSTALLATION NOTES:**

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLE SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 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, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR CAPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (IE PANEL BOARD AND CIRCUIT ID'S)
- PANEL BOARDS (ID NUMBERS ) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- 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 & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, 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.
- 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.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (IE RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATION SUBJECT TO PHYSICAL DAMAGE SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (IE RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
- 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.
- METAL RECEPTACLE SWITCH AND DEVICE BOXED SHALL BE GALVANIZED, EPOXY-COATED OR NOT 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.
- 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.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AV POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- INSTALL PLASTIC LABEL ON THE METER CENTER IDENTIFYING SPECIFIC CARRIER.
- FLEX CONDUIT RUNS NOT TO EXCEED 36" WITHOUT PRIOR TMO APPROVAL.

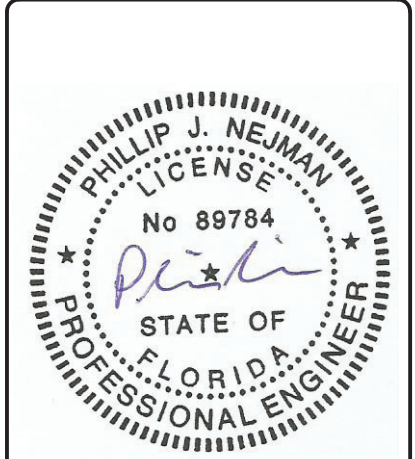
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A&E PROJECT #:	NXFL-358
DRAWN BY:	JCR
CHECKED BY:	BAA

REVISIONS		
NO.	DATE	DESCRIPTION
A	07/12/23	ISSUED FOR REVIEW
0	10/05/23	ISSUED FOR CONSTRUCTION



10/05/2023

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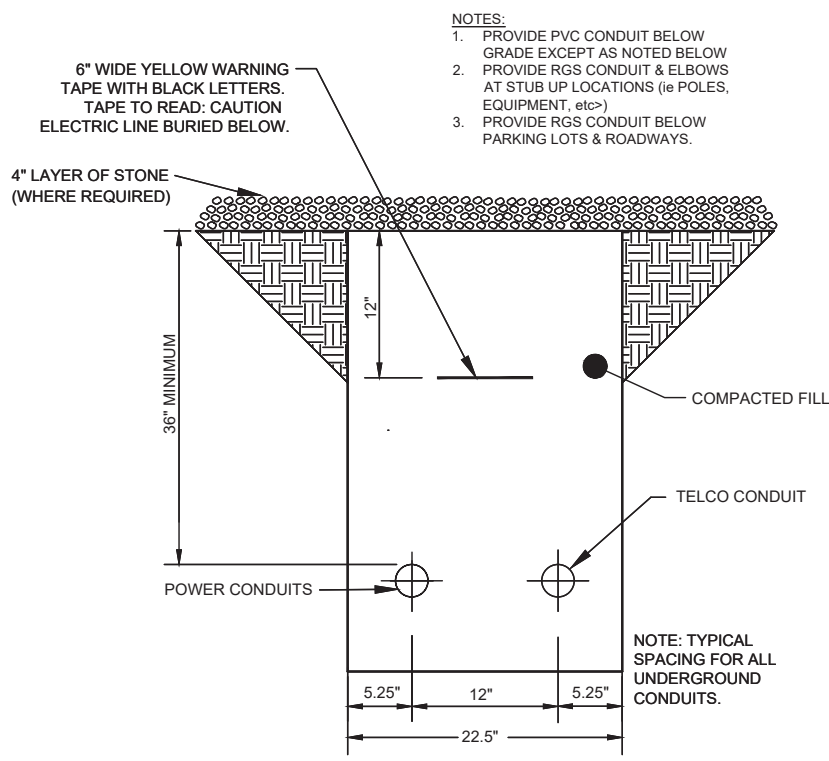
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**N. ALACHUA  
 NXFL-358**

TOWER OWNER:  
**NEXTOWER**

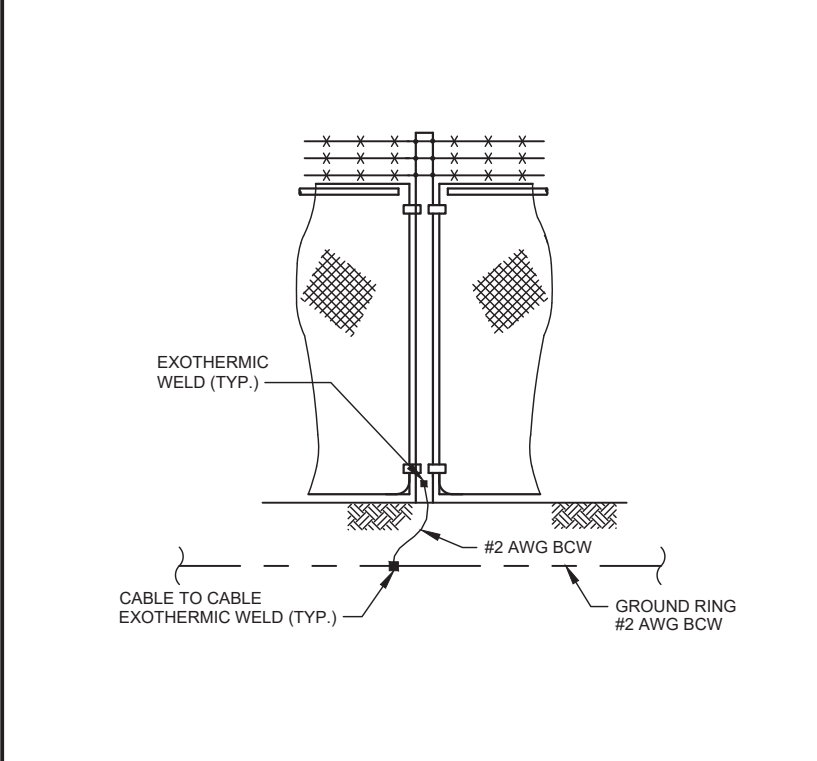
DESIGN TYPE:  
**RAWLAND**

SHEET TITLE:  
**ELECTRICAL NOTES**

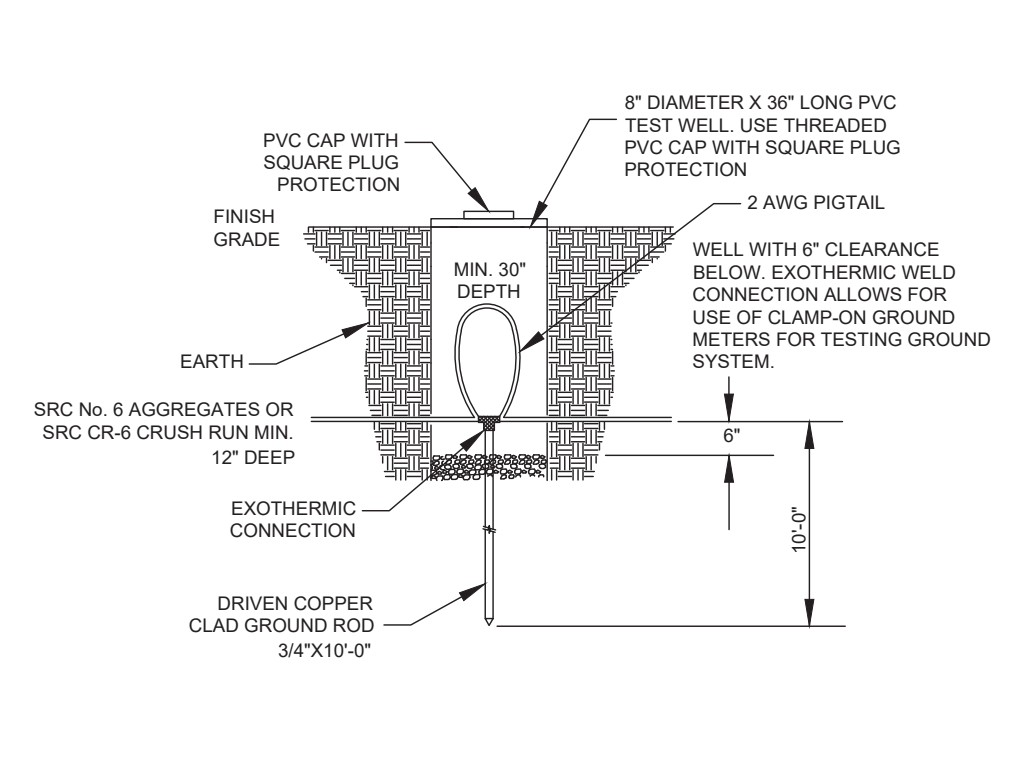
DRAWING NO.  
**E4**



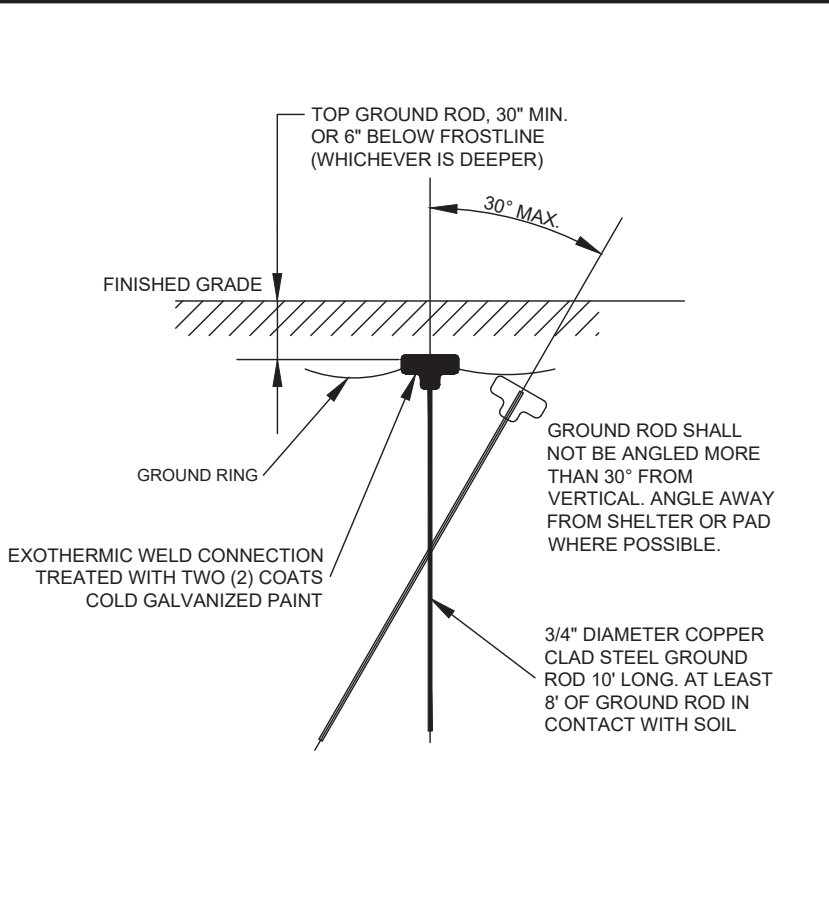
**1** POWER/FIBER TRENCH DETAIL  
 E5 NOT TO SCALE



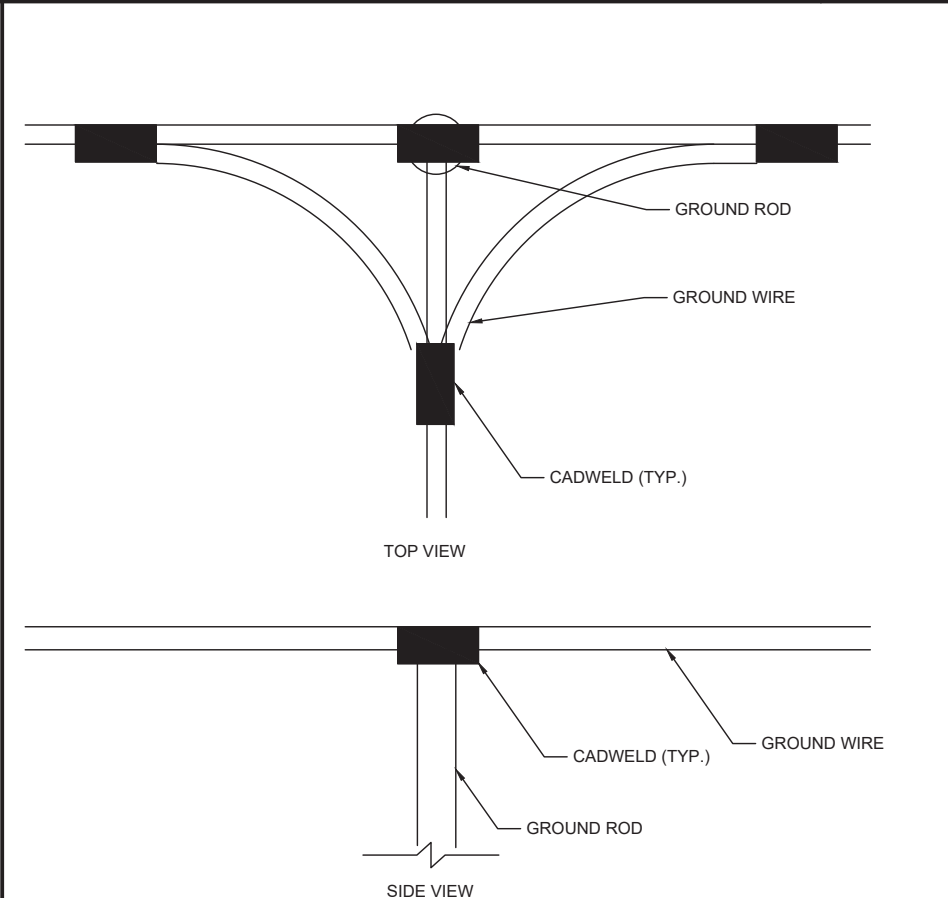
**2** FENCE GROUNDING  
 E5 NOT TO SCALE



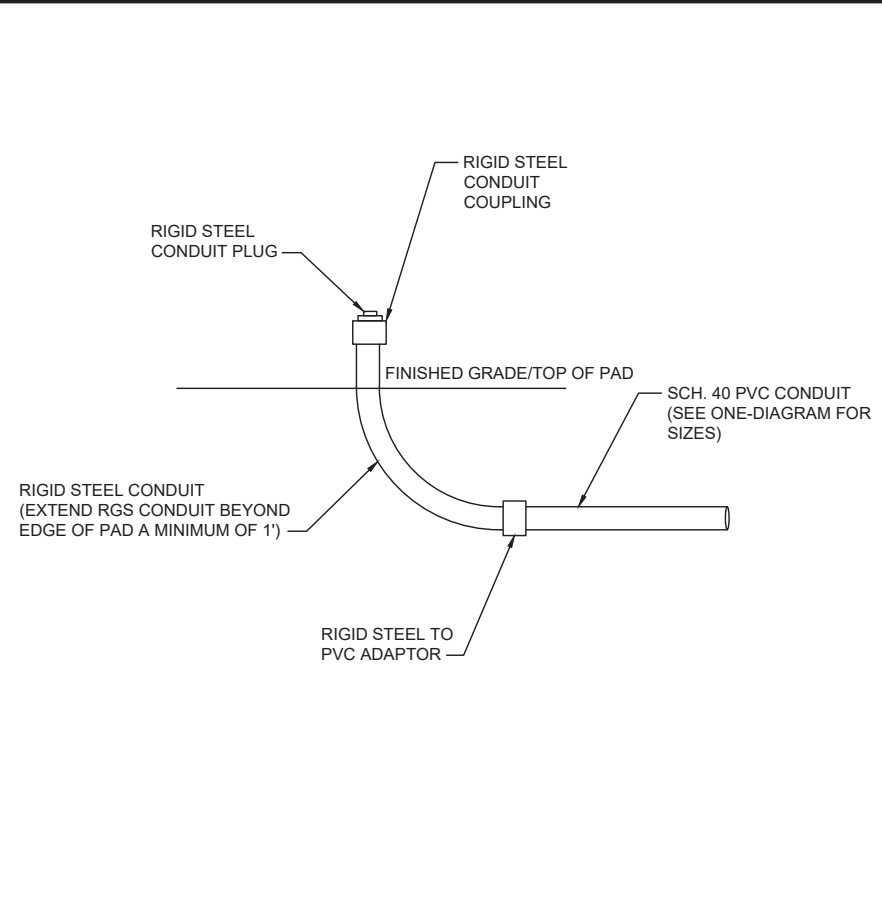
**3** TEST WELL DETAIL  
 E5 NOT TO SCALE



**4** GROUND ROD DETAIL  
 E5 NOT TO SCALE



**5** GROUND ROD / WIRE CONNECTION DETAIL  
 E5 NOT TO SCALE

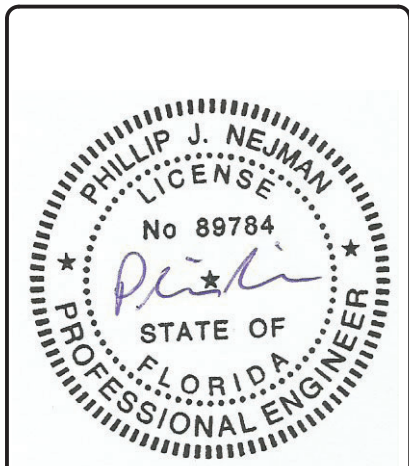


**6** CONDUIT STUB-UP w/CAP  
 E5 NOT TO SCALE

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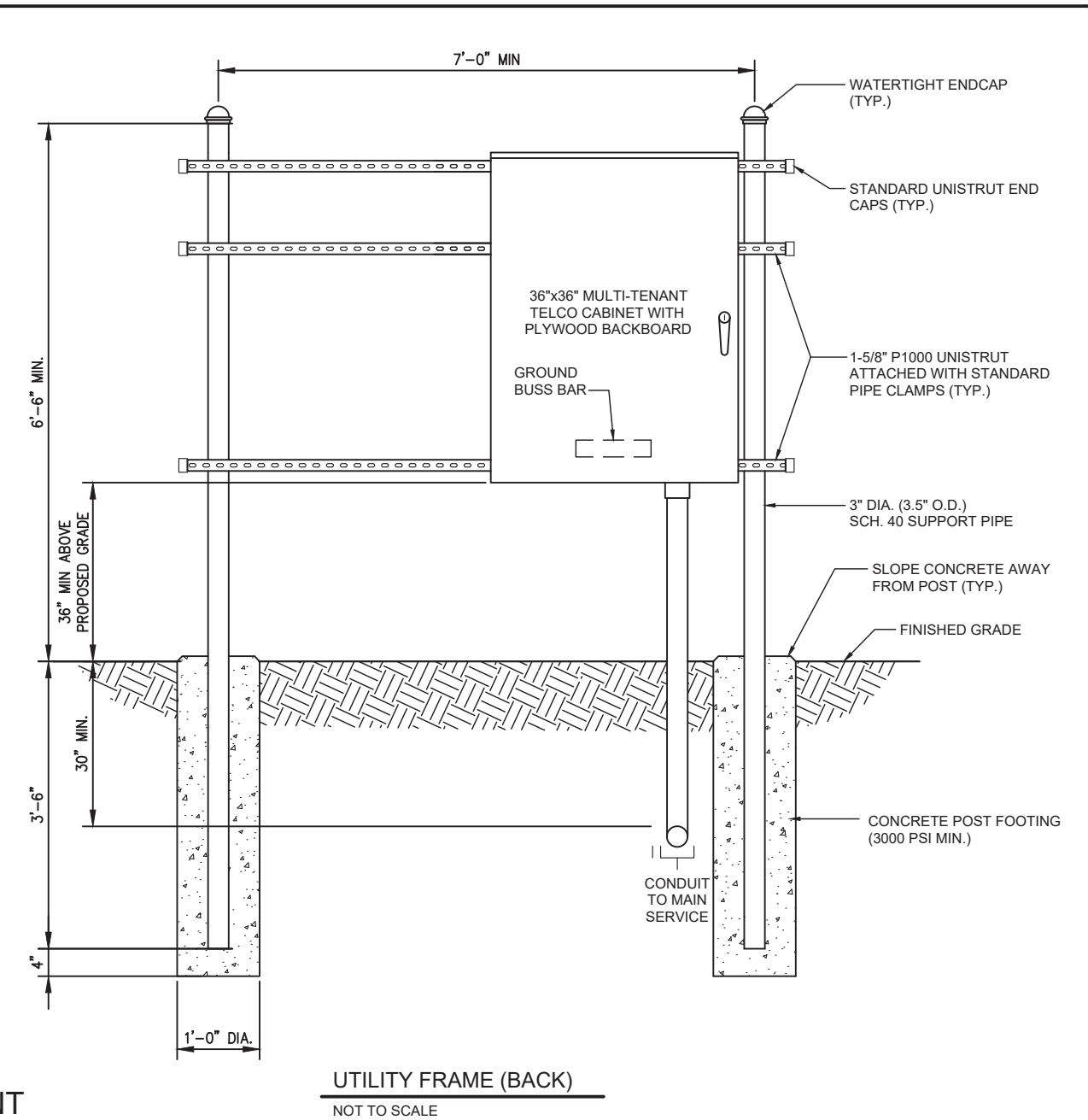
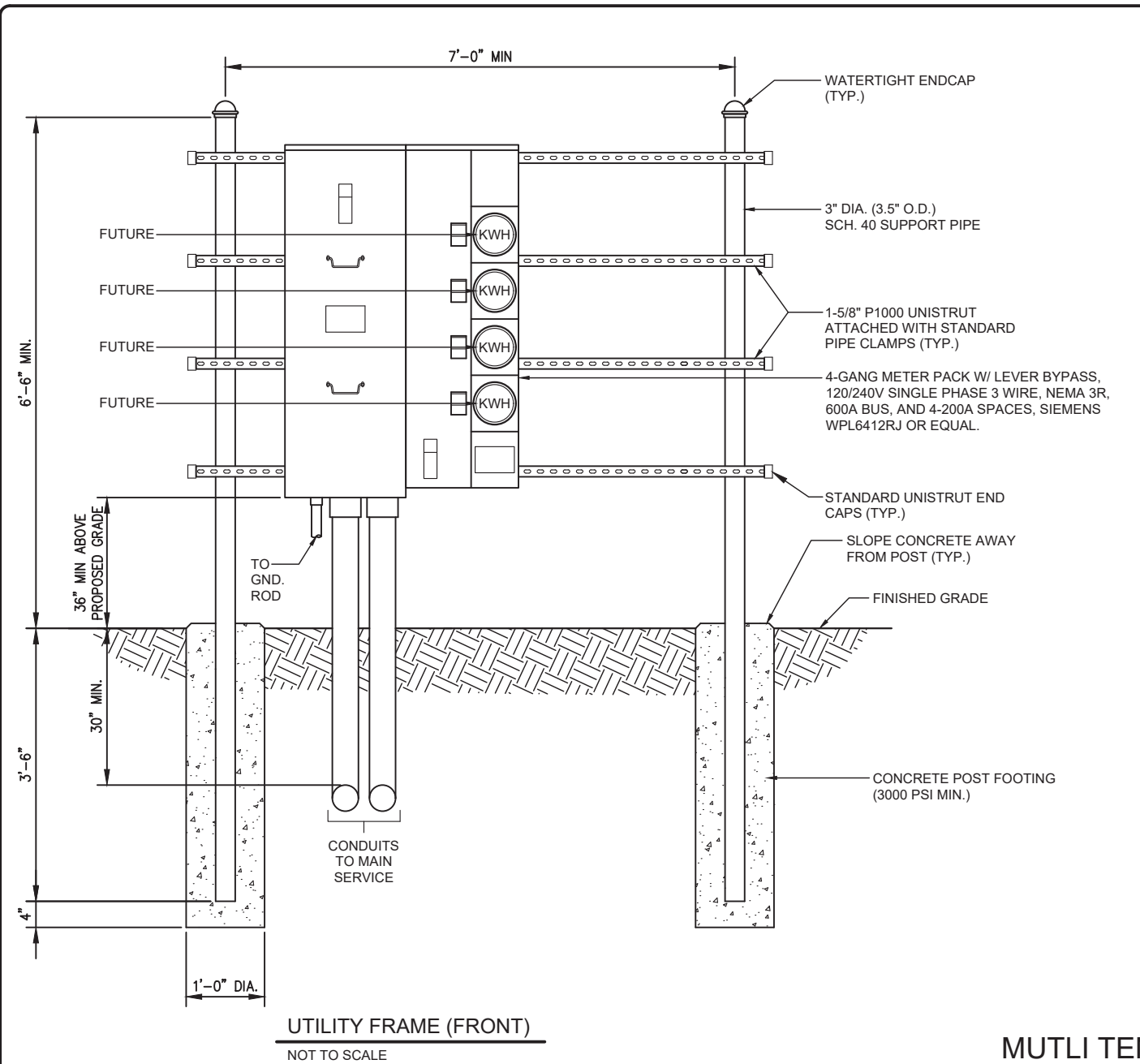
TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

SHEET TITLE:  
**ELECTRICAL DETAILS**

DRAWING NO.  
**E5**





**1**  
**E6**  
**MUTLI TENANT UTILITY FRAME**  
NOT TO SCALE

**NOTES:**

1. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. ALL CONDUITS EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND CONDUIT SHALL TRANSITION FROM PVC TO RIGID AT THE 90° BEND BELOW GRADE.
2. 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.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
4. 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.
5. SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
6. TELCO CABINET SHALL BE 36"x48"x10" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
7. 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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NEXTOWER SITE NAME:  
**N. ALACHUA  
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TOWER OWNER:  
**NEXTOWER**

DESIGN TYPE:  
**RAWLAND**

SHEET TITLE:  
**H-FRAME DETAILS**

DRAWING NO.  
**E6**