

	PLANS PREPARED BY:
ONT STREET NC 27546) 814-6431	TOWER ENGINEERING PROFESSIONALS 326 TYRON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net
IF YOU DIG IN DRTH CAROLINA CALL US FIRST! –800–632–4949	N.C. LICENSE # C-1794
RTH CAROLINA ONE CALL IT'S THE LAW THE CONTRACTORS CONVENIENCE ONLY. WIN ON THESE PLANS. THE ENGINEER/ IR THE LOCATIONS SHOWN AND IT SHALL VERIFY ALL UTILITIES WITHIN THE LIMITS KISTING UTILITIES BY THE CONTRACTOR THE CONTRACTOR.	I OG-30-20 CONSTRUCTION I OG-30-20 CONSTRUCTION O IO-10-19 PRELIMINARY CONSTRUCTION REV DATE ISSUED FOR: DRAWN BY: GSB CHECKED BY: JBG
REV 1	SEAL: SEAL SEAL 032017 SEAL 032017 June 30, 2020
1 VETAILS 1 I DETAILS 1	SEAL:
PLAN & NOTES 1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	June 30, 2020 SHEET NUMBER: REVISION: 1 1 TEP#: 153676.258201

Name of Project: OAKRIDGE RIVER RO. Address: 1979 OAKRIDGE RIVEI		RINA, NC Zip Code 27526
Owner/Authorized Agent: STATE OF N.C. Pho Owned By:	one # (<u>919</u>) 662 - $\frac{4440}{2}$ ounty \square Private	
CONTACT: JOHN	GOINS, P.E.	
Architectural N/A Civil TEP, INC JOHN B. GO Electrical TEP, INC MARK S. QL Fire Alarm	JAKENBUSH, P.E. 0421	
Shell/Core procedures Phased Co possible ac 2018 NC EXISTING BUILDING CODE: EX CONSTRUCTED: (date) RENOVATED: (date) OCCUPANCY CATEGORY (Table 1604.5):	and requirements Instruction - Shell/Core- Conta Iditional procedures and requi ISTING: Prescriptive Alteration: Level I Historic Prop CURRENT OCCUPAN PROPOSED OCCUPAN Current: I I II	Repair Chapter 14 Level II Level III erty Change of Use CY(S) (Ch. 3):
	т □п □п □w	IV V-A V-B FPA 13R NFPA 13D fet Dry o Yes

FLOOR EXISTING (SQ PT) NEW (SQ FT) SUB-TOTAL 3" Floor			Gross Building Area Table	
3 ^a Floor	FLOOR	EXISTING (SO FT)		SUB-TOTAL
Mezzanine 219 219 PiFloor 0 219 ALLOWABLE AREA Yrinary Occupancy Classification(s): Select one Select		· · · · ·		
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Basement 219 ALLOWABLE AREA Primary Occupancy Classification(s): Selectone Sele	CONTRACTOR AND A CONTRACTOR OF CARD			
TOTAL 219 ALLOWABLE AREA Primary Occupancy Classification(s): Select one Select		0	219	219
ALLOWABLE AREA Primary Occupancy Classification(s): Selectone Selecton				219
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□ 14 Residential □ R-1 □ R-2 □ R-3 □ R-4 Storage □ S-1 Moderate □ S-2 Low □ High-piled □ Parking Garage □ Open □ Enclosed □ Repair Garage Utility and Miscellaneous □ □ □ Special Uses (Table 509): □ □ □ Special Provisions: (Chapter 4 - List Code Sections): □ □ □ Special Provisions: (Chapter 5 - List Code Sections): □ □ □ Special Provisions: (Chapter 5 - List Code Sections): □ □ □ Special Provisions: (Chapter 5 - List Code Sections): □ □ □ □ Mixed Occupancy: □ No □ Yes Separation: □ Hr. Exception: □ □ Non-Separated Use (508.4) • The required type of construction for the building shall be determined by applying the height and area initiations for each of the applicable occupancy is to the antire building. □ </td <td>2</td> <td></td> <td></td> <td></td>	2			
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Special Provisions: (Chapter 5 – List Code Sections): Mixed Occupancy: X No Yes Separation:	ncidental Uses (7	Fable 509):		
Mixed Occupancy: X No Yes Separation: Hr. Exception: Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building. Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1. Actual Area of Occupancy A + Allowable Area of Occupancy B ≤1 Allowable Area of Occupancy A + +				
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STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(b) table 506.2 ⁴ area	(C) AREA FOR FRONTAGE INCREASE ^{1.5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	EQUIPMENT	219	19,000	N/A	19,000
	ROOM				

¹ Frontage area increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____(F)

- b. Total Building Perimeter = ______ (P) c. Ratio (F/P) = ______ (F/P) d. W = Minimum width of public way = _____ (W) e. Percent of frontage increase $I_f = 100[F/P 0.25] \times W/30 = _____ (\%)$ ² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	65	9'-2"	
Building Height in Stories (Table 504.4)	1	1	

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

BUILDING ELEMENT	FIRE		RATING	DETAIL #	DESIGN #	SHEET # FOR	SHEET #
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		N/A					
Bearing Walls							
Exterior							
North		1	2	203953			
East		1	2	Sheet			
West		1	2	8 of 8			
South		1	2				
Interior		N/A					
Nonbearing Walls and Partitions Exterior walls		N/A					
North		N/A					
East		N/A					
West		N/A			-		
South		N/A					
Interior walls and partitions		N/A					
Floor Construction Including supporting beams and joists		0	2	203953 Sheet 8 of 8			
Floor Ceiling Assembly		N/A		0010			
Columns Supporting Floors		N/A					
Roof Construction, including supporting beams and joists		0	2	203953 Sht. 8 of 8			
Roof Ceiling Assembly		N/A					
Columns Supporting Roof		N/A					
Shaft Enclosures - Exit		N/A	12				
Shaft Enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Separat	ion	N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

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PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)
>30' (North)	UP/NS	NO LIMIT	4

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Panic Hardware:

 □
 No
 X
 Yes

 □
 No
 X
 Yes

 □
 No
 X
 Yes

 □
 No
 X
 Yes

 □
 No
 X
 Yes

No X Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: <u>N/A</u>

Fire and/o	r smoke ra	ated wall	locations	(Chapter 7)
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Assumed and real property line locations (if not on the site plan)

Exterior wall opening area with respect to distance to assumed property lines (705.8)

Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

Occupant loads for each area

Exit access travel distances (1017)

Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))

Dead end lengths (1020.4)

Clear exit widths for each exit door

Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

Actual occupant load for each exit door

- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)

Location of doors with electromagnetic egress locks (1010.1.9.9)

Location of doors equipped with hold-open devices

Location of emergency escape windows (1030)

The square footage of each fire area (202)

The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)

Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS N/A (SECTION 1107)

Total Units	ACCESSIBLE UNITS REQUIRED	Accessible Units Provided	TYPE A Units Required	TYPE A Units Provided	TYPE B Units Required	TYPE B Units Provided

ACCESSIBLE PARKING N/A (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLE SPACES PROVIDED			
	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACES WITH		
			5' ACCESS AISLE	132" ACCESS AISLE	8' acce aisle	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS N/A (TABLE 2902.1)

USE		WATERCLOSETS		URINALS	LAVATORIES			SHOWERS	Γ	
		MALE	LE FEMALE	UNISEX		MALE	FEM ALE	UNISEX	/TUBS	Γ
SPACE	EXIST [*] G									Γ
	NEW									Γ
	REQ'D									Γ

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., descu N/A

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TOTAL ACCESSIBLE UNITS PROVIDED	P
TOTAL# ACCESSIBLE PROVIDED	P
DRINKING FOUNTAINS REGULAR ACCESSIBLE	S
ribe below)	
	S



Climate Zone: 3A 3A 4A 5A Method of Compliance: Energy Code Performance Prescriptive Groun ASHRAE 90.1 Performance Prescriptive Wind THERMAL ENVELOPE (Prescriptive method only) SEISMIC DES Provide the following Boof/ceiling Assembly (each assembly) 0.0909 SEISMIC DES Description of assembly: 0.0909 Risk C X-Value of insulation: 6.53 Spectr Skylights in each assembly: Site C Site C U-Value of skylight: Site C Site C U-Value of skylights in each assembly: Basic : Site C U-Value of total assembly: 0.0909 Analy: R-Value of insulation: K-11 Analy: Wind total square footage of skylights in each assembly: Analy: U-Value of total assembly: 0.0909 Analy: R-Value of insulation: K-11 Archit Openings (windows or doors with glazing) LATERAL DE SOIL BEARIN		
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U-Value of total assembly:		The size
R-Value of insulation:		10 <u>.</u>
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Floors slab on grade N/A Description of assembly: U-Value of total assembly: R-Value of insulation:		
Description of assembly:	R-Value of insulation:	
U-Value of total assembly:	Floors slab on grade N/A	
R-Value of insulation:		
nonzontal/vertical requirement.		
slab heated:		

2018 NC Administrative Code and Policies

NG CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE) S: ance Factors: Snow $(I_s) = \frac{1.2}{Seismic} (I_E) = \frac{1.5}{1.5}$ $\begin{array}{c} \text{Roof} & \underline{100} & \text{psf} \\ \text{Mezzanine} & \underline{N/A} & \text{psf} \\ \hline \text{Floor} & \underline{125} & \text{psf} \end{array}$ ads: Snow Load: __100 __ psf 90 Basic Wind Speed ____ mph (ASCE-7) oad: С Exposure Category GN CATEGORY: A B C D wing Seismic Design Parameters:

2018 APPENDIX B

J4.5) □ I	ΠΠ	Пш	X IV		
eration	$S_s 17$		A CONTRACTOR OF A	S1	8.4
E7) 🗌 A rce: 🗌 Fiel	B Id Test	C X Pres	D Sumptive	E His	F torical
🗌 Bui	lding Fran		🗖 Dua	l w/Inter	mediat
					Force
: Earthqu	ake 🗌	Winc			
	 4.5) □ I eration 37) □ A rce: □ Fie ⊠ Bea □ Bua □ Mo □ Sin al, Compon 	 (4.5) □ I □ Π eration S_s 17 (27) □ A □ B rce: □ Field Test ○ Bearing Wall □ Building Fran □ Moment Fram □ Simplified al, Components anchemic 	(4.5) I II III eration S_s 17.6 %g (5.7) A B C rce: Field Test X Press X Bearing Wall Building Frame Moment Frame Simplified X Ec al, Components anchored? Ec	(4.5) I I II III III X IV eration S_s 17.6 $\%g$ $\%g$ $\%g$ (5.7) A B C X D (7.6) $\%g$ $\%g$ $\%g$ $\%g$ (7.7) A B C X D rce: Field Test X Presumptive X (X) Bearing Wall Dua Dua Dua (X) Building Frame Dua Dua Simplified X Equivalent (X) Simplified X Equivalent X Yes	(4.5) I I II III XII (4.5) I S 17.6 %g S1_ (57) A B C X D E (57) A B C X D E (57) A B C X D E (57) Field Test X Presumptive Hist (57) Bearing Wall Dual w/Spect Dual w/Spect (50) Building Frame Dual w/Inter (50) Moment Frame Inverted Pen (50) Simplified X Equivalent Lateral F al, Components anchored? X Yes No

N/A	psf
2000	psf
N/A	I
	2000

2018 NC Administrative Code and Policies

__%g

Data oment Frame te R/C or Special Steel

Dynamic



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: <u>20 F</u> summer dry bulb: 95 F

Interior design conditions

winter dry bulb:	70 F
summer dry bulb:	75 F
relative humidity:	50 %

- Building heating load: <u>NONE</u>
- Building cooling load: 40,000 BTU/H

Mechanical Spacing Conditioning System

34RD 24,000 BTU/	H COOLING (2 UNITS)
JONE	
.0 EER	
4.000 BTU/H (2 UN	NITS)
<u>.,</u>	(112)
ed, state reason.:	N/A
ed, state reason.:	N/A
	IONE .0 EER 4,000 BTU/H (2 UI ed, state reason.:

List equipment efficiencies:

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code	Performance X Prescriptive
ASHRAE 90.1	Performance Prescriptive
Lighting schedule (each fixture type)	

lamp type required in fixture 34 W FL

number of lamps in fixture 2

ballast type used in the fixture ELEC

number of ballasts in fixture 2 total wattage per fixture 60

total interior wattage specified vs. allowed (whole building or space by space) 600 VS. 331 total exterior wattage specified vs. allowed N/A

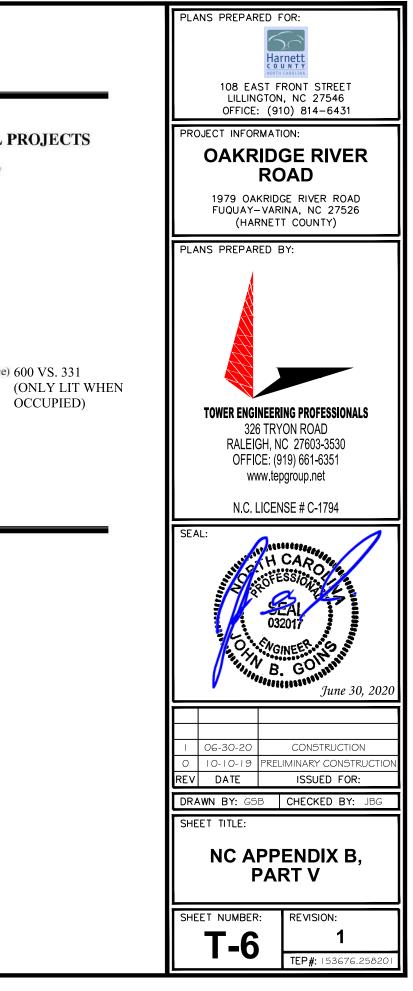
Additional	Efficiency	Package	Options	

(When using the 2018 NCECC; not required for ASHRAE 90.1)

- C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density
- C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System

C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies



GENERAL NOTES:

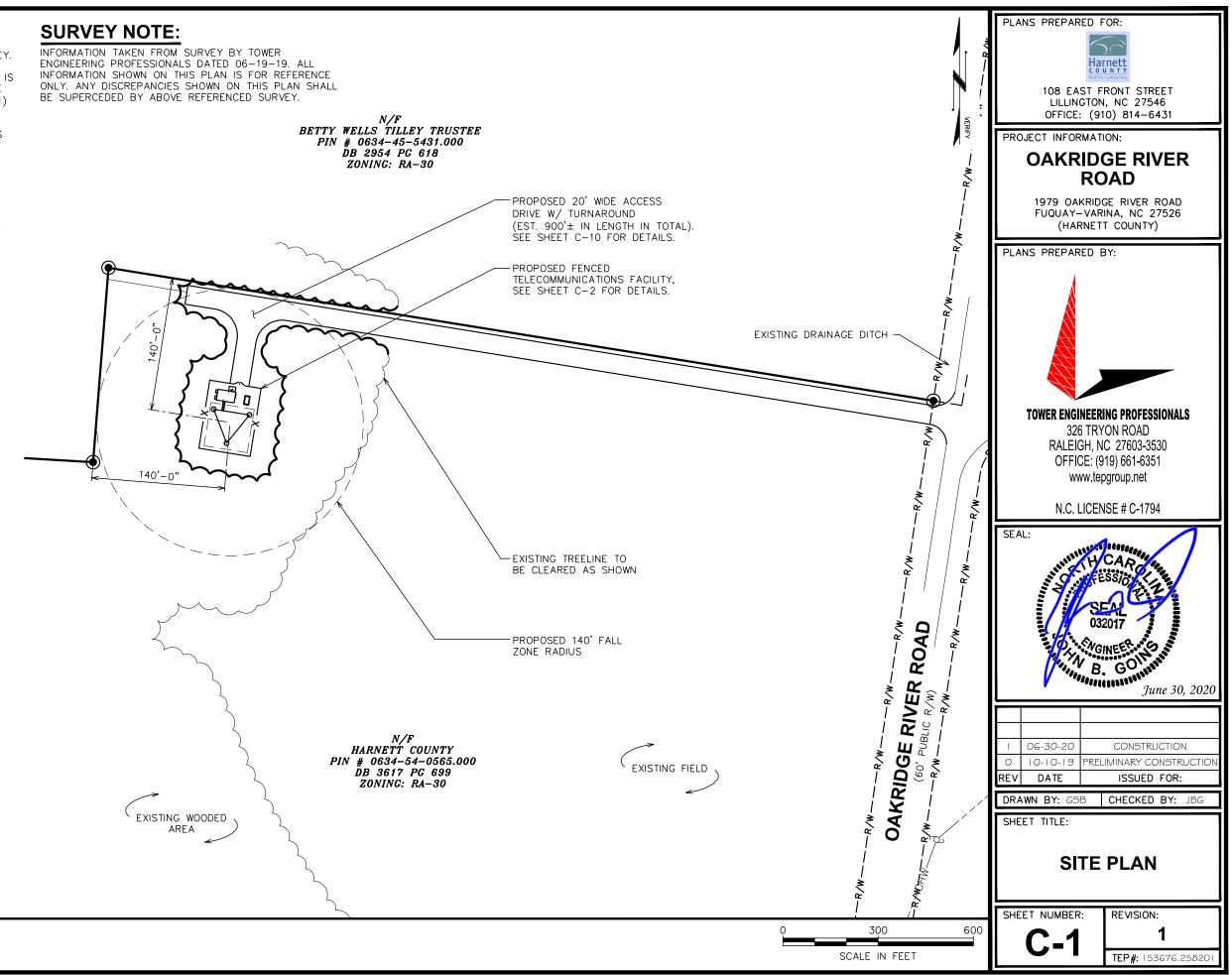
- 1. ALL REFERENCES TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED HARNETT COUNTY OR ITS DESIGNATED REPRESENTATIVE.
- 2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF NORTH CAROLINA.
- 3. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, 2018 EDITION.
- 4. 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.
- 5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- 6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- 7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISES AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- 12. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 13. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- 14. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN IT PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.
- 15. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
- 16. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
- 17. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.



NOTES:

- 1. THIS PLAN DOES NOT REPRESENT A TITLE SURVEY.
- THE BASIS OF THE BEARINGS AND COORDINATES IS 2. THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM (NAD 83/2011) BASED ON DIFFERENTIAL GPS OBSERVATIONS PERFORMED ON JUNE 17, 2019; TIED TO THE NATIONAL SPATIAL REFERENCE SYSTEM VIA CORS STATION AND OPUS; AND EXPRESSED IN US SURVEY FEET.
- VERTICAL INFORMATION SHOWN, BASED ON THE 3. NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) IN US SURVEY FEET.
- 4. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
- 5. THE PROPOSED LOCATION OF THE TOWER IS LOCATED IN FLOOD ZONE "X", AREA TO BE DETERMINED OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN. (FEMA/FIRM MAP NUMBER 3720062400J, EFFECTIVE OCTOBER 3, 2006).
- 6. PROPERTY OWNER: HARNETT COUNTY

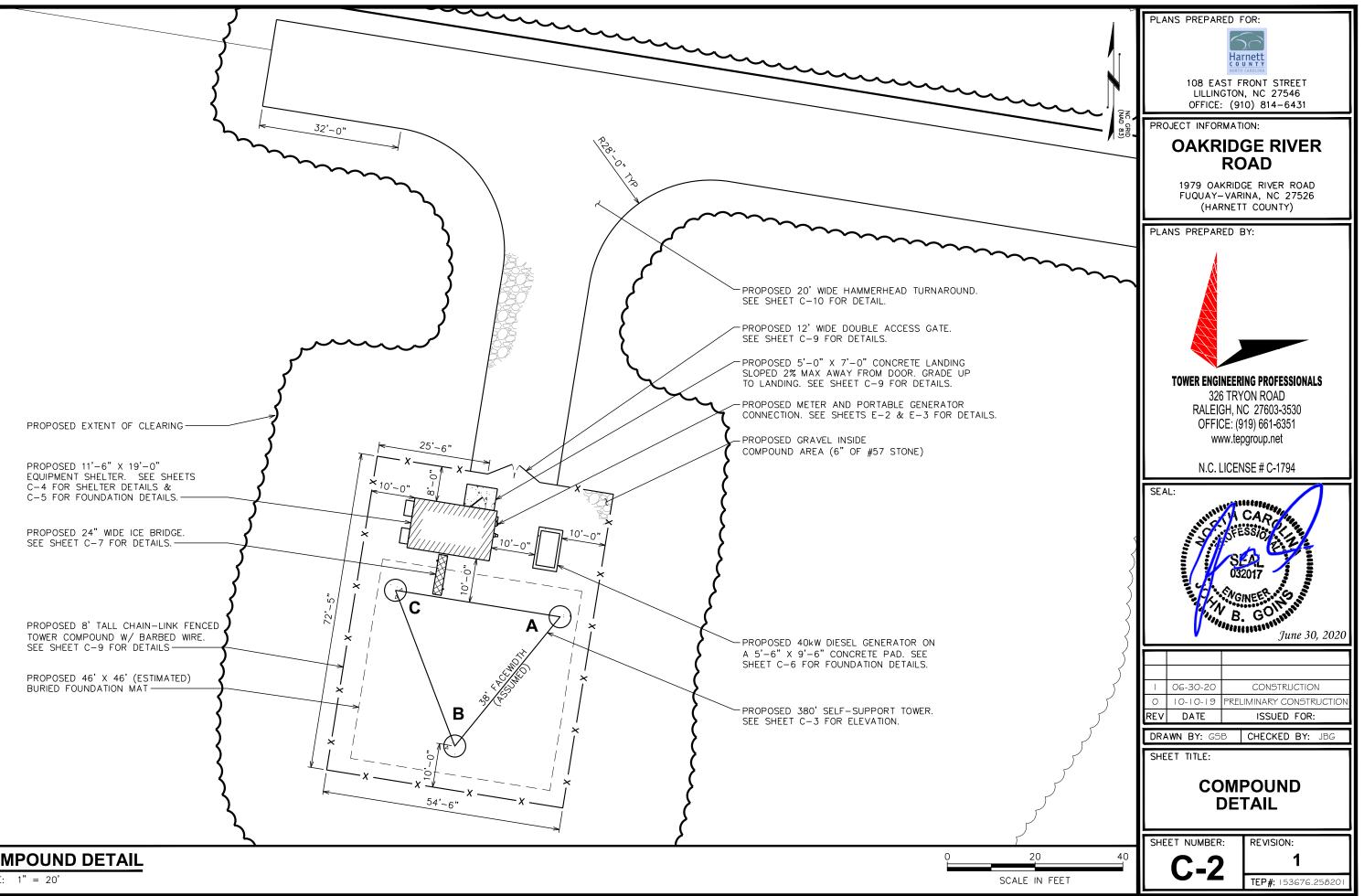
L	EGEND
	EXIST. PROPERTY LINE
	ADJ. PROPERTY LINE
۲	PROPERTY CORNER
● IRF	IRON ROD FOUND
⊠см	CONCRETE MONUMENT
G	EXIST. UTILITY POLE
D	EXIST. TELCO PEDESTAL
E	EXIST. POWER PEDESTAL
200	EXIST. CONTOUR LINE
	EDGE OF PAVEMENT
OHW	OVERHEAD WIRE
x	CHAIN LINK FENCE
	EXISTING TREE LINE

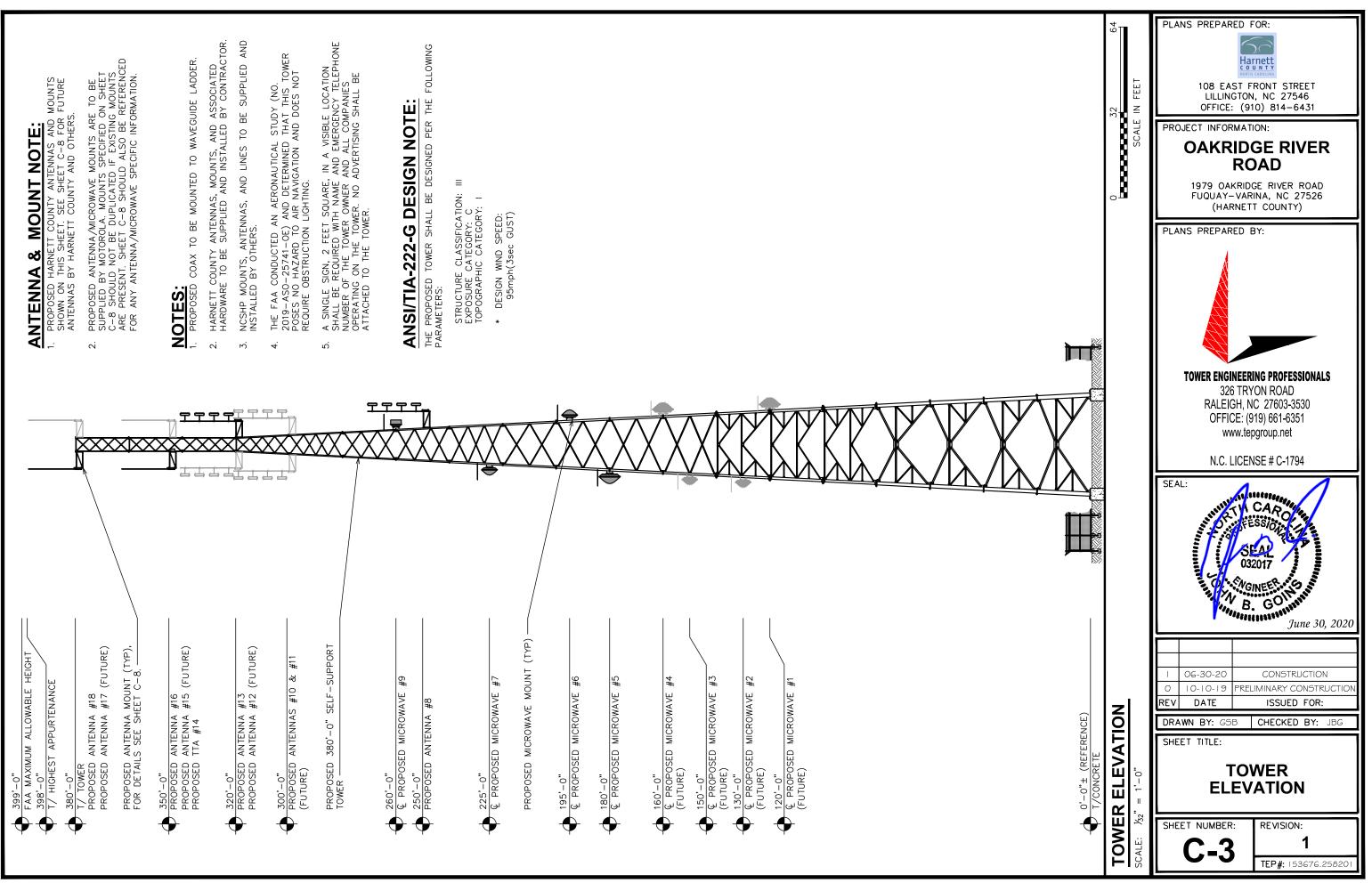


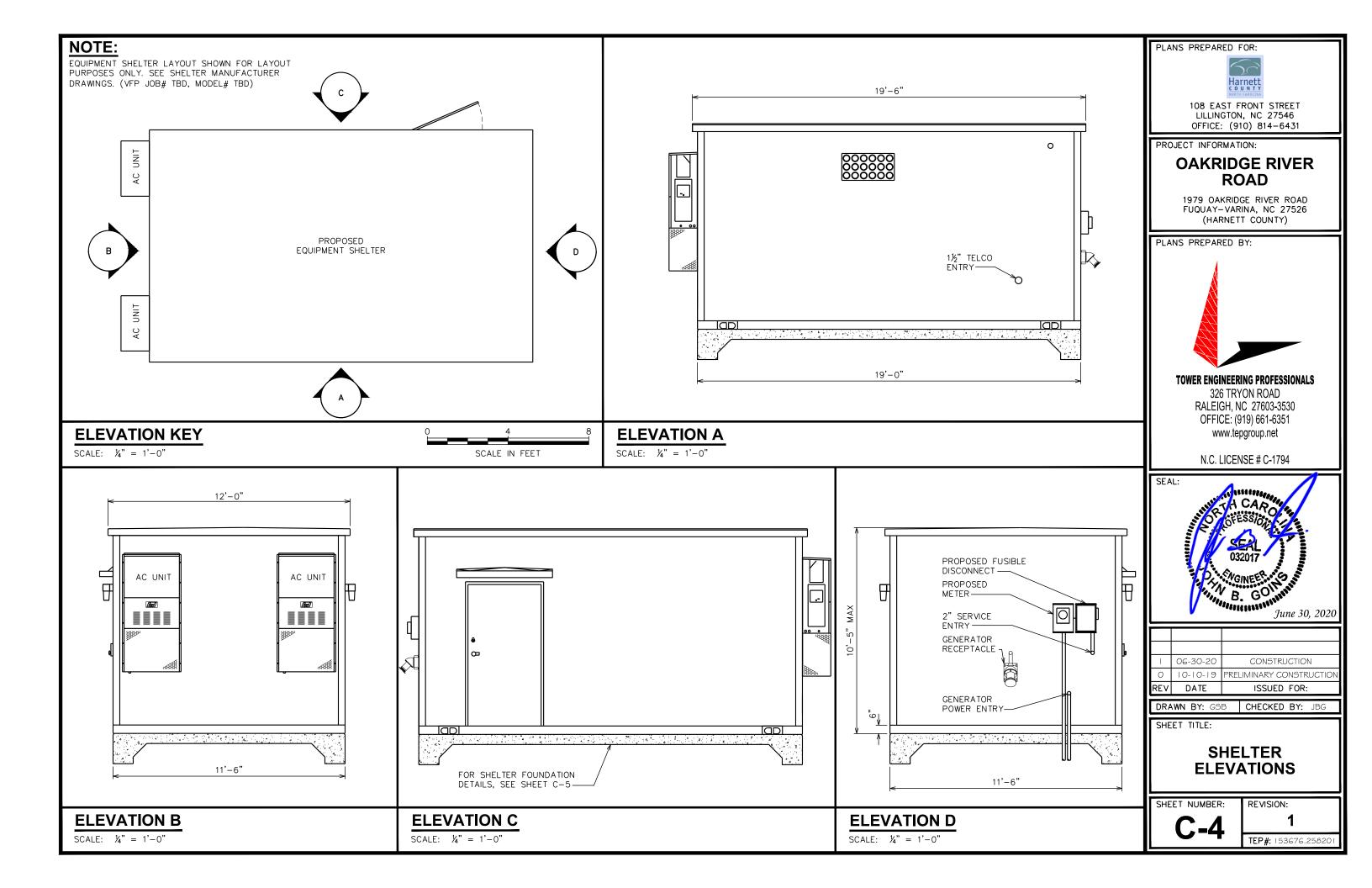
SITE PLAN SCALE: 1" = 100'











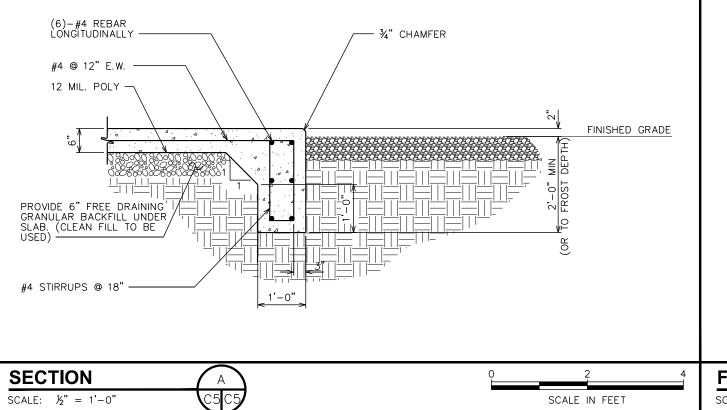
FOUNDATION NOTES:

- FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY. IF OTHER CONDITIONS EXIST, FOUNDATION SHALL BE REDESIGNED. CONTRACTOR SHALL HAVE SOIL BEARING CAPACITY VERIFIED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO INITIATION OF CONSTRUCTION. 1.
- 2. CONCRETE SHALL BE 3,000 PSI.
- 3. REINFORCING STEEL Fy = 60,000 PSI
- 4. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.
- 5. SURFACE OF FINISHED SLAB SHALL BE LEVEL AND FLAT WITHIN ¼".
- 6. CONTRACTOR SHALL VERIFY WITH MANUFACTURER ACTUAL DIMENSIONS OF SHELTER PRIOR TO LAYING OUT FOUNDATION.

GENERAL STRUCTURAL NOTES:

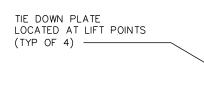
SPECIFICATIONS / CODES:

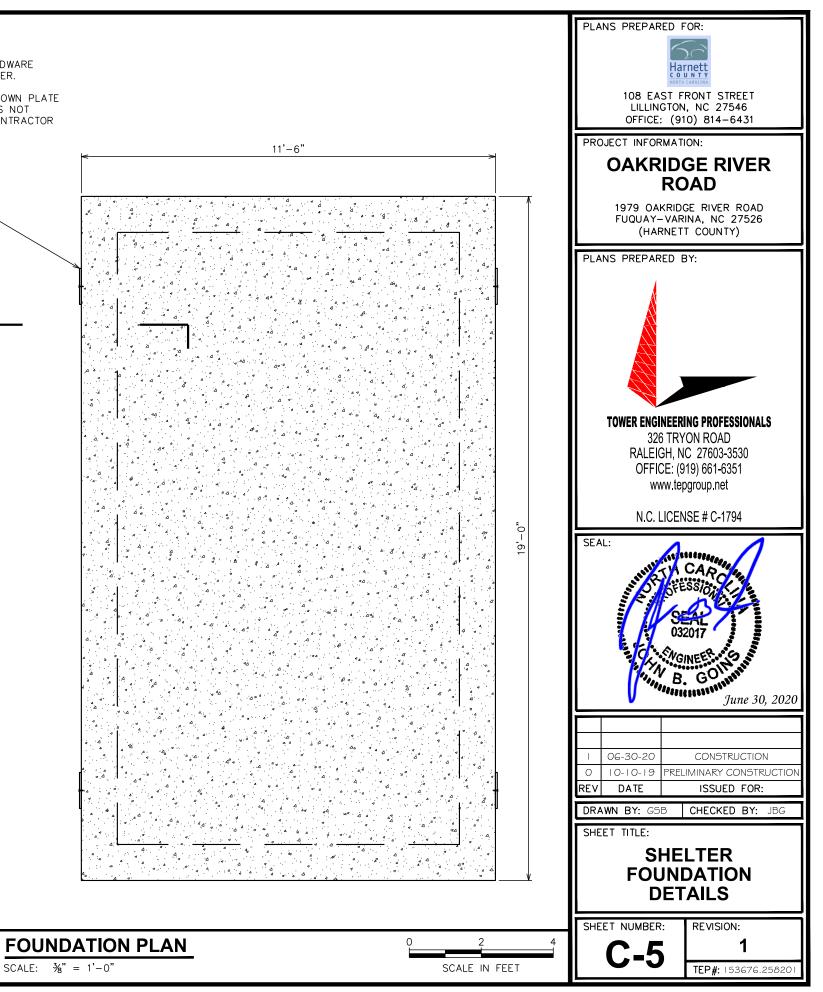
- 1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
- 2. STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 15th EDITION.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1–15 "STRUCTURAL WELDING CODE-STEEL.
- REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). "MANUAL OF STANDARD PRACTICE".



NOTES:

- 1. SHELTER TIE DOWN PLATE AND HARDWARE SUPPLIED BY SHELTER MANUFACTURER.
- 2. CONTRACTOR TO VERIFY THAT TIE DOWN PLATE LOCATED NEAR SHELTER DOOR DOES NOT INTERFERE WITH ACCESS RAMP. CONTRACTOR TO RELOCATE AS NEEDED.





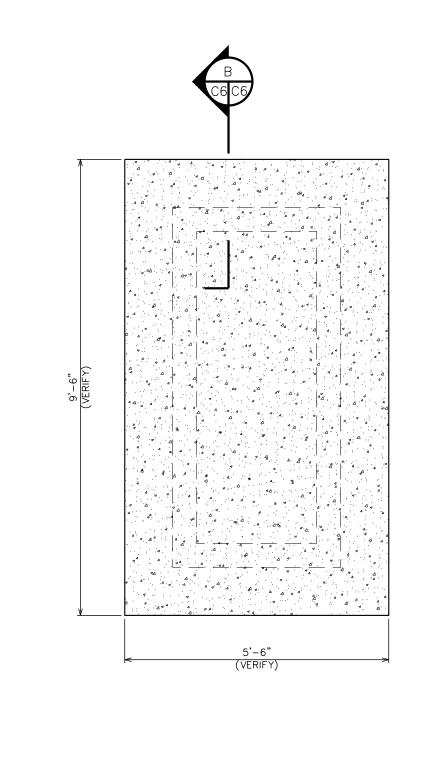
FOUNDATION PLAN

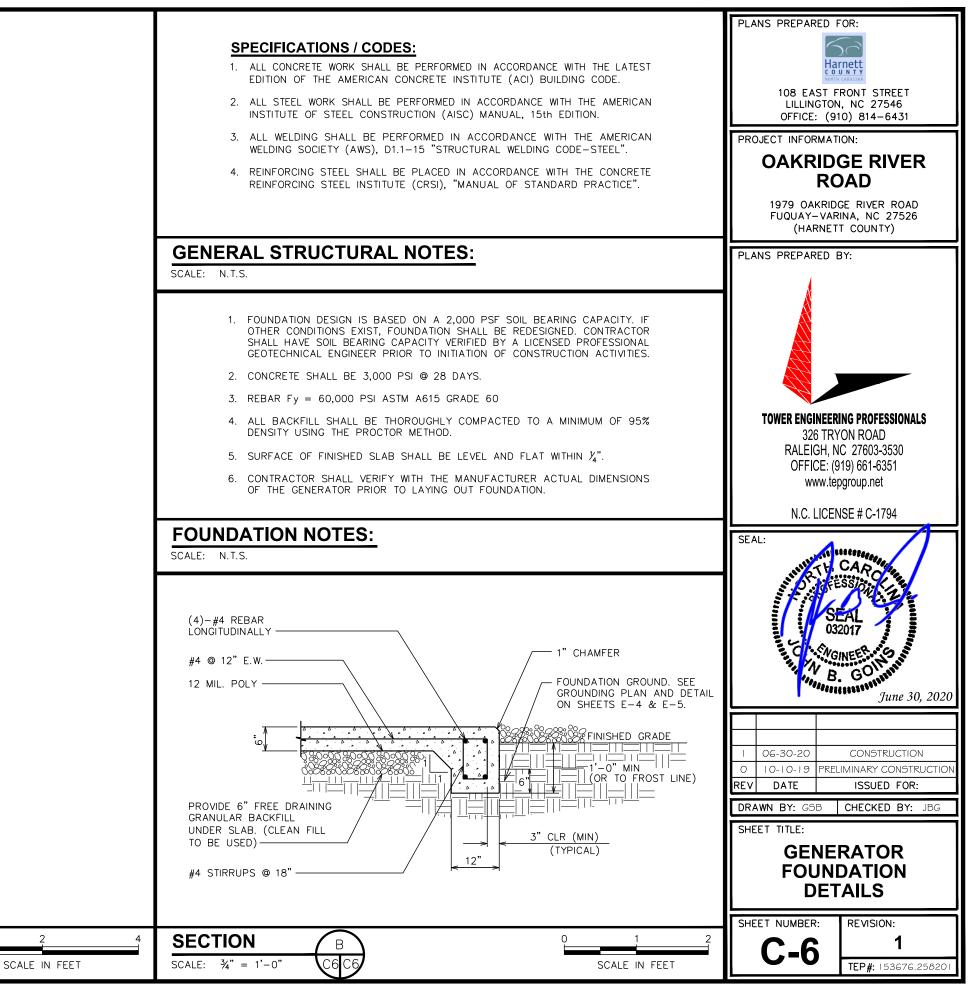
GENERATOR ANCHORAGE:

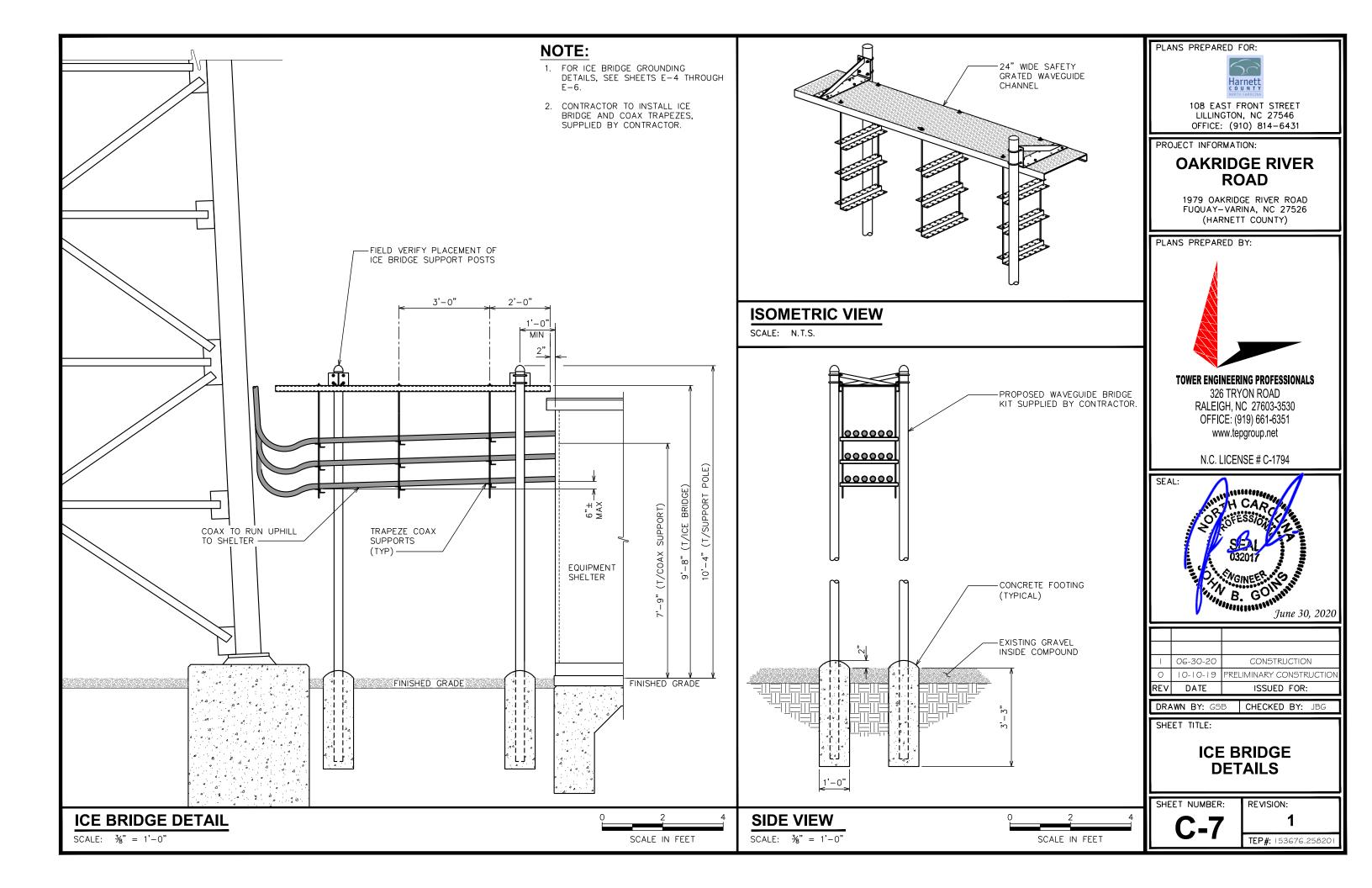
THE GENERATOR CONNECTION TO THE CONCRETE SLAB IS ACHIEVED WITH (8) $\frac{1}{2}$ $^{\circ}$ EXPANSION BOLT ASSEMBLIES [(4) BOLTS PER GENERATOR SIDE]. THE CURRENT GENERATOR ATTACHMENT SPECIFICATION IS TO USE (8) 1/2" BOA COIL ANCHORS BY RED HEAD EMBEDDED AT À MINIMUM DEPTH OF 2" OR APPROVED EQUAL. CONTACT TEP FOR APPROVAL OF ALTERNATE ATTACHMENT METHOD.

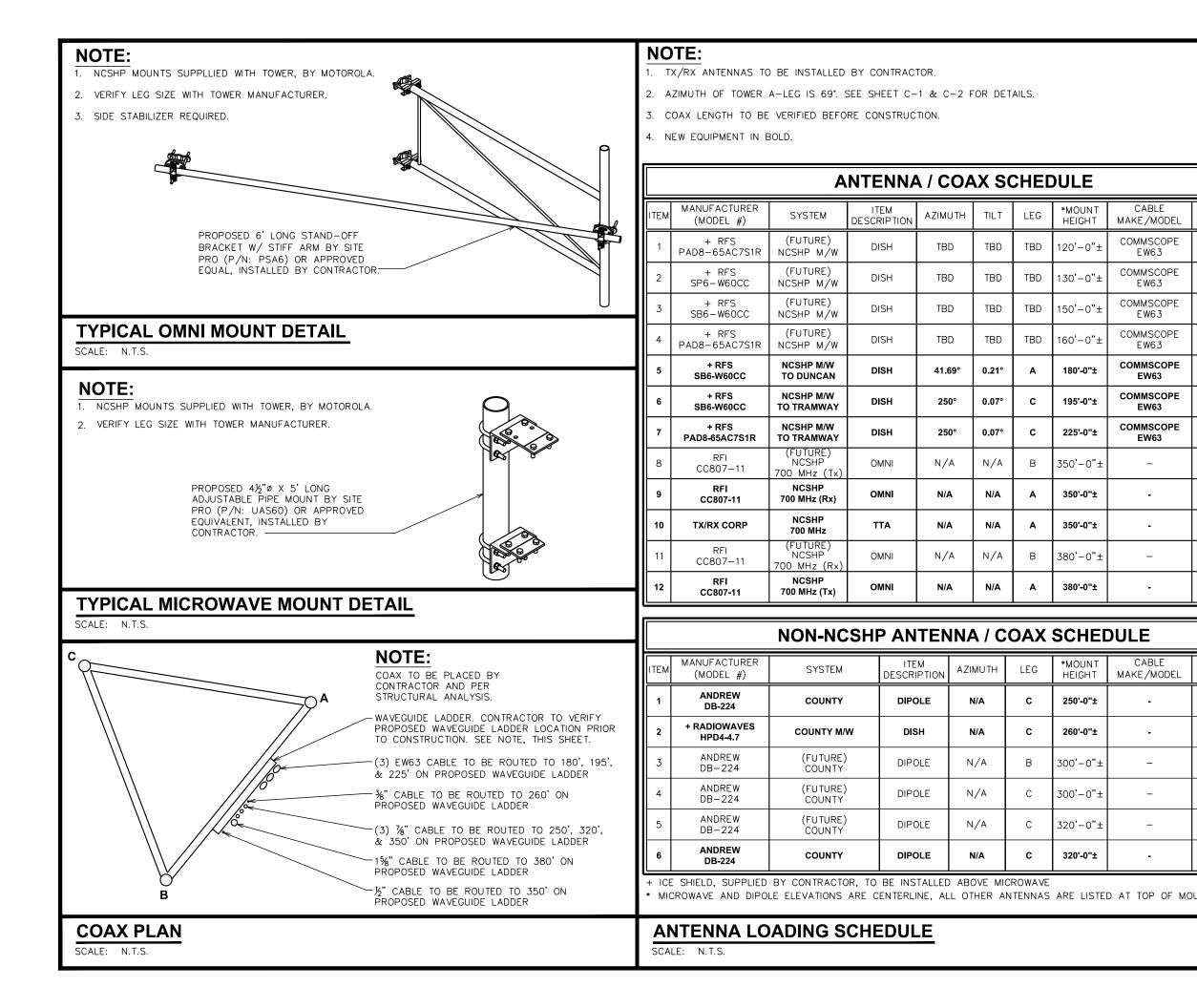
GENERATOR FOUNDATION PLAN

SCALE: 3'' = 1' - 0''

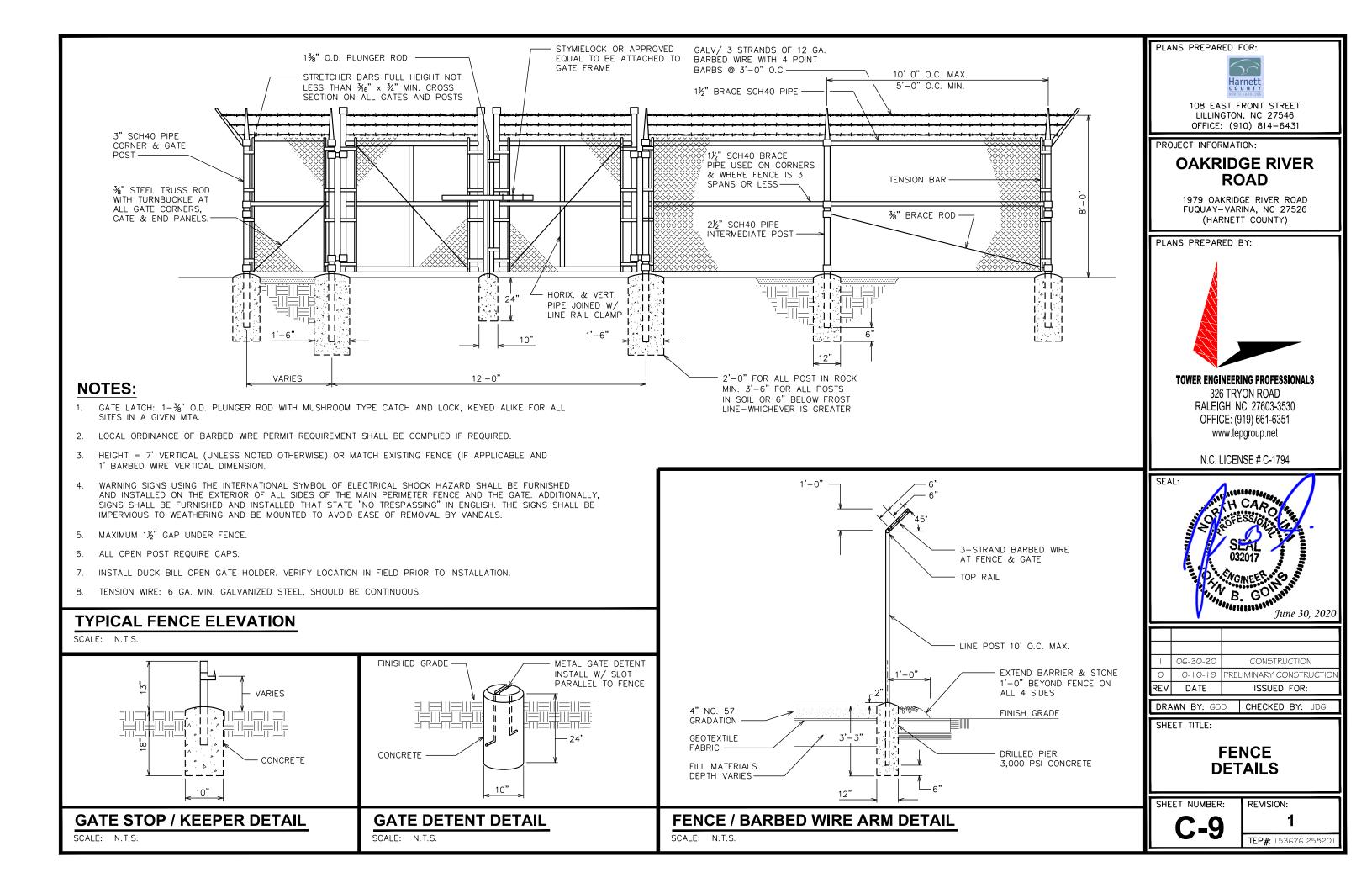


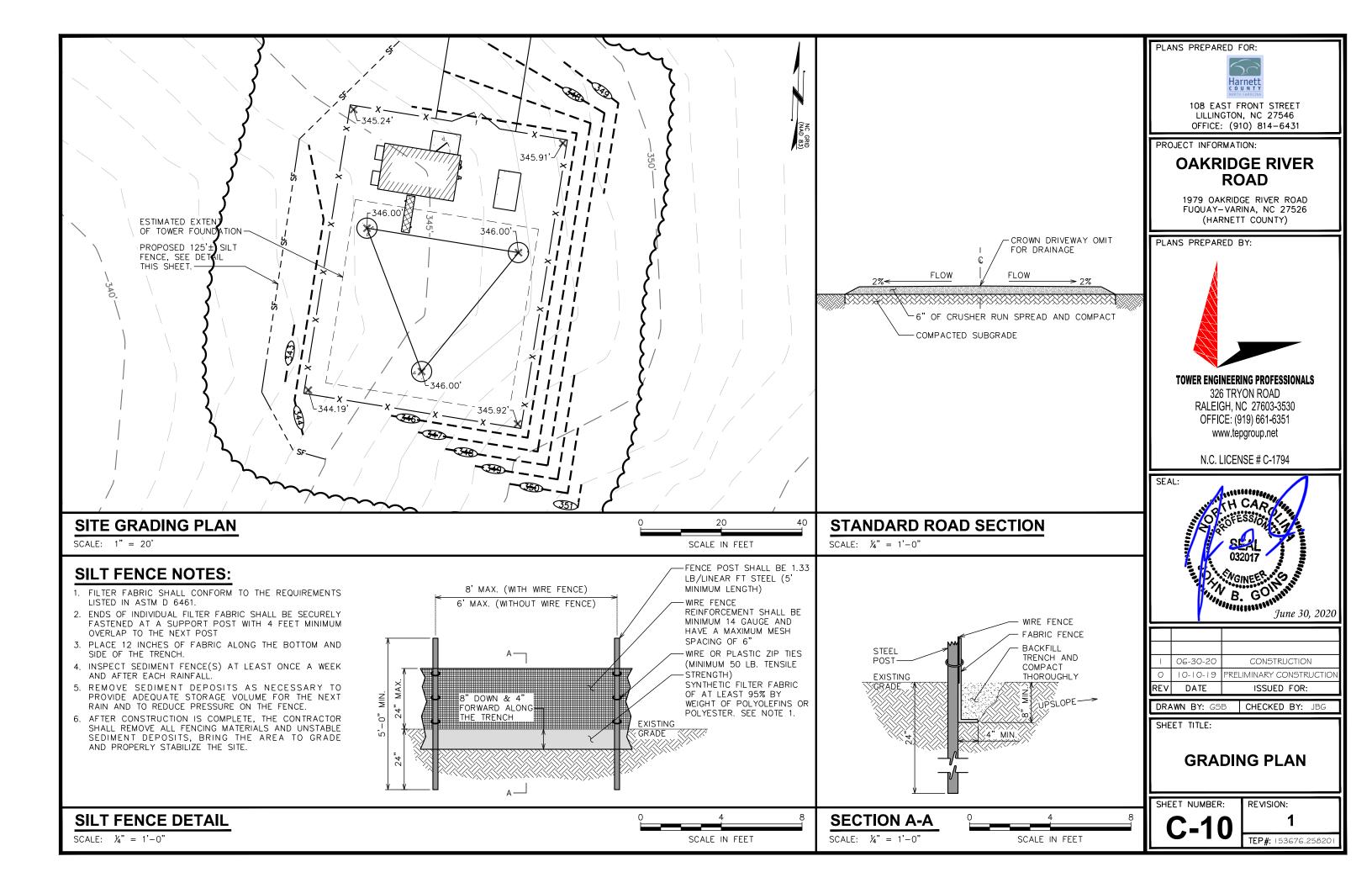






PLANS PREPARED FOR:	
COAX COAX SIZE LENGTH	
LILLINGTON, NC 27546 OFFICE: (910) 814-6431 PROJECT INFORMATION: OAKRIDGE RIVER ROAD	
COAX COAX SIZE LENGTH	
COAX COAX	Ē
I SIZE I LENGTH IIII	
1979 OAKRIDGE RIVER ROAD FUQUAY-VARINA, NC 27526	
EW63 140'± (HARNETT COUNTY)	
EW63 150'± PLANS PREPARED BY:	٦
EW63 170'±	
EW63 180'±	
EW63 200'±	
EW63 220'±	
EW63 250'± TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD	
15%" 370'± RALEIGH, NC 27603-3530	
OFFICE: (919) 661-6351 ⁷ / ₈ " 370'± Www.tepgroup.net	
½" 370'± N.C. LICENSE # C-1794	
7%" 400'± SEAL:	
1%" 400'±	
032017	
COAX COAX SIZE LENGTH B. GOUNT	
%" 270'± June 30, 202	.0
3/8" 280'±	
%" 320'± I 06-30-20 CONSTRUCTION 0 10-10-19 PRELIMINARY CONSTRUCTION	ЭN
%" 320'± REV DATE ISSUED FOR: Market Brawn BY: GSB CHECKED BY: JBG	
%" 340'± SHEET TITLE:	╡
7%" 340'± ANTENNA & COAX	
SHEET NUMBER: REVISION:	╡
C-8 1	
TEP#: 153676.25820	21





SCOPE:

ALL ELECTRICAL WORK SHALL BE PERFORMED BY COMPANIES PROPERLY LICENSED BY THE NC STATE ELECTRICAL BOARD OF EXAMINERS. SCOPE SHALL INCLUDE ALL LABOR, MATERIALS AND APPLIANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION OF ALL WORK SHOWN ON THE DRAWING AS SPECIFIED HEREIN:

3 CONDUCTORS

- 1. ELECTRIC SERVICE
- 2. CONDUIT AND RACEWAY
 - CONDUIT AND RACEWAY

- 4. MISCELLANEOUS MATERIALS
- MATERIALS 6. L

5. TELEPHONE CONDUITS
 6. LIGHTNING ARRESTING SYSTEM

6. LIGHINING ARRESTING SYSTEM

CODES:

THE INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATION IN EFFECT WITH THE REGULATIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE AND THE NEC 2017 (WITH NORTH CAROLINA AMENDMENTS), ADMINISTRATIVE RULES WITH THE NATIONAL ELECTRIC CODE, ALL LOCAL GOVERNING CODES AND ORDINANCES WITH THE REGULATION OF THE SERVING UTILITY COMPANY, AND FULLY COMPIANT WITH THE STATE CONSTRUCTION OFFICE ELECTRICAL GUIDELINES. ALL PERMITS REQUIRED SHALL BE OBTAINED AND, AFTER COMPLETION OF WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF FINAL INSPECTION AND APPROVAL.

MATERIALS:

MATERIALS TO BE NEW. USE OF USED OR SUB STANDARD MATERIAL IS NOT ACCEPTABLE. IN THE CASE OF EXISTING METERING EQUIPMENT OR PANELS, REQUIRED COMPONENTS SHALL BE NEW.

TESTING:

UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST ALL EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. ALL TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE:

IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER WITHOUT EXPENSE TO THE OWNER. ALL WARRANTEE CERTIFICATES AND GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

COORDINATION:

CONTRACTOR SHALL COORDINATE ALL WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH ALL SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE:

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS PARAGRAPH WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING, PATCHING AND EXCAVATION:

- 1. COORDINATION OF ALL SLEEVES, CHASES, ETC., WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. ALL CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
- 2. ALL EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE WORK UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.

EXTERIOR CONDUIT:

UNDERGROUND RACEWAYS SHALL COMPLY WITH STATE CONSTRUCTION ELECTRIAL GUIDELINES, SECTION 26 05 33. ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.

RACEWAYS:

- 1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE RIGID STEEL, EMT, OR SCH40 PVC. AS INDICATED ON THE DRAWINGS. ALUMINUM CONDUIT SHALL NOT BE ALLOWED.
- 2. WHERE INSTALLED ON EXTERIORS AND EXPOSED TO DAMAGE, ALL CONDUIT SHALL BE RIGID STEEL.
- 3. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT.
- 4. UNDERGROUND CONDUITS SHALL BE RIGID STEEL OR SCH40 PVC AS INDICATED ON THE DRAWINGS.
- 5. ALL CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. ALL CONDUIT RUNS IN A WET LOCATIONS SHALL HAVE WATERPROOF FITTINGS. ALL EMT TERMINATIONS AND COUPLINGS SHALL BE MADE UTILIZING HEXAGONAL COMPRESSION CONNECTORS. NO POT METAL, SETSCREW, OR INDENTED TYPE FITTINGS SHALL BE UTILIZED.
- 6. PROVIDE SUPPORTS FOR ALL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. ALL CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.
- 7. BURIAL DEPTH OF ALL CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION.
- 8. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND BUILDING OWNER.
- 9. UNDERGROUND AND ABOVE GROUND RACEWAYS SHALL NOT BE RELIED ON FOR GROUNDING CONTINUITY.

EQUIPMENT:

- 1. ALL DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
- 2. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT, AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK. CONTACT TEP IF FAULT CURRENT EXCEEDS BREAKER RATING.

CONDUCTORS:

1. FURNISH AND INSTALL CONDUCTORS CALLED FOR IN THE DRAWINGS. ALL CONDUCTORS SHALL HAVE TYPE THWN OR THW (75 °C) INSULATION, RATED FOR 600 VOLTS.

- 2. ALL CONDUCTORS SHALL BE COPPER, THE USE OF ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED. ALL CONDUCTORS SHALL BE UL LISTED AND SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:
 - A. MINIMUM WIRE SIZE SHALL BE #12 AWG.
- B. ALL CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND SMALLER MAY BE SOLID OR STRANDED.
 - C. CONNECTION FOR #10 AWG AND SMALLER SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTORS.
- D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
 - 3. ALL CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS.
 - 4. THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS.
- 5. A FULL SIZE NEUTAL SHALL BE PROVIDED FOR EACH CIRCUIT. NO SHARING OF NEUTRAL BETWEEN CIRCUITS ALLOWED.

PENETRATIONS:

CONTRACTOR SHALL COMPLY WITH THE LATEST UL PENETRATION DETAILS FOR PENETRATIONS OF ALL RATED WALLS, ROOF, ETC. SEE SHELTER MANUFACTURER DRAWINGS FOR ANY AND ALL PENETRATION DETAILS.

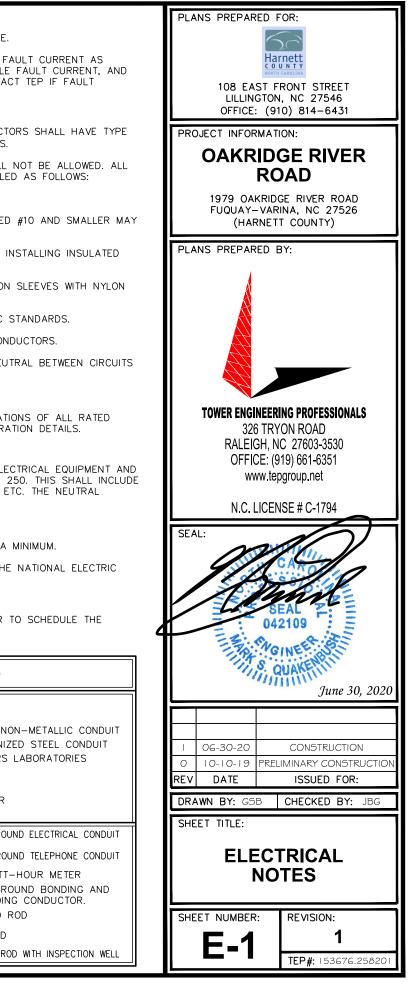
GROUNDING:

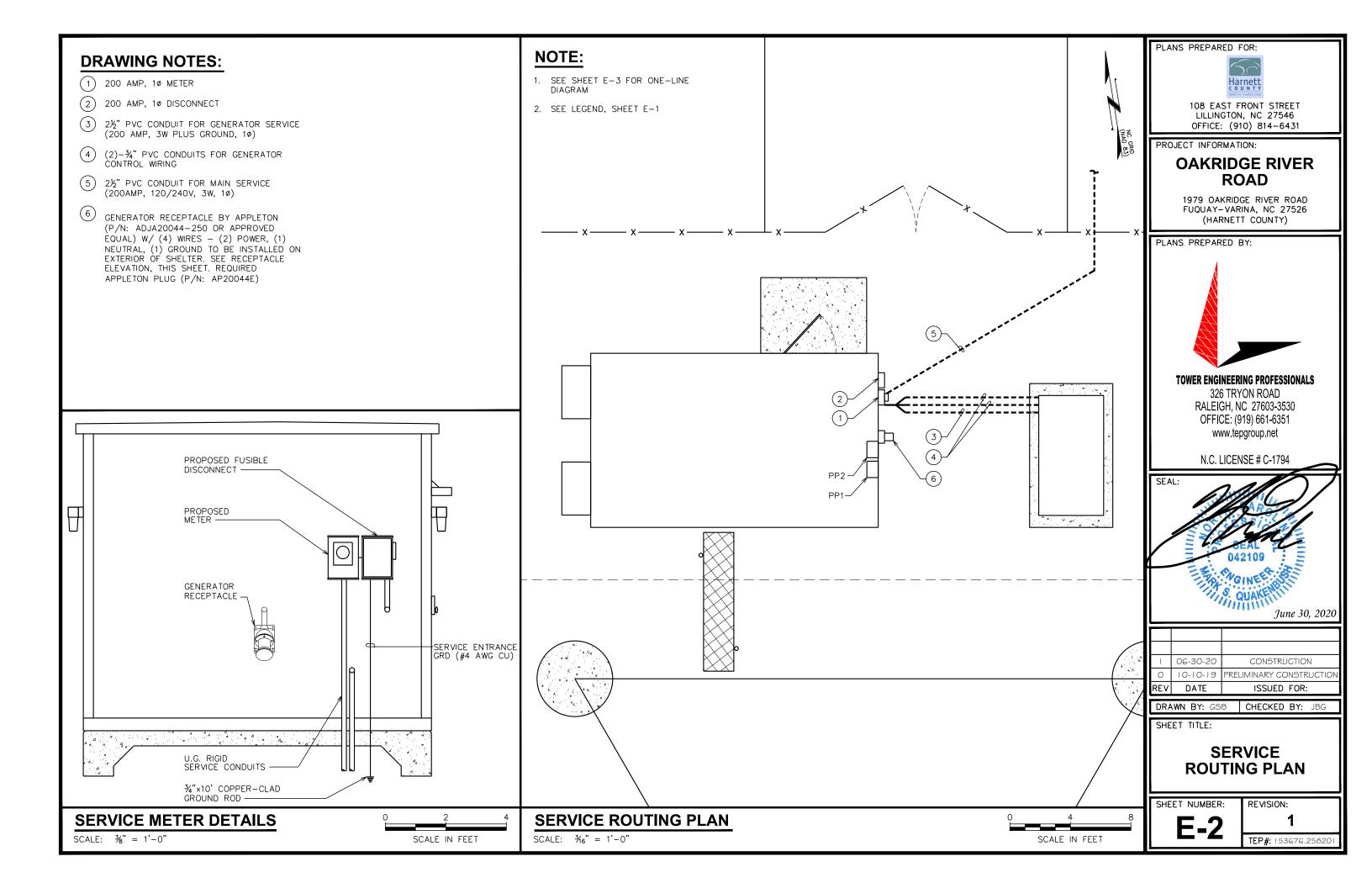
- 1. ALL ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED BY ONE POINT ONLY.
- 2. PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS.
- 3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 LIGHTNING PROTECTION AS A MINIMUM.
- 4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE AND EQUIPMENT MANUFACTURER'S GROUNDING SPECIFICATIONS.

INSPECTION

1. THE CONTRACTOR IS TO CONTACT THE OFFICE OF THE STATE ELECTRICAL INSPECTOR TO SCHEDULE THE REQUIRED INSPECTIONS.

		ABBREVIATION	S AN	D		GEND
А	_	AMPERE	PNL	_	PANE	EL
AFG	_	ABOVE FINISHED GRADE	PNLBD	_	PANE	ELBOARD
ATS	_	AUTOMATIC TRANSFER SWITCH	PVC	-	SCH4	O RIGID NO
AWG	_	AMERICAN WIRE GAUGE	RGS	-	RIGID	GALVANIZ
BCW	-	BARE COPPER WIRE	UL	-	UNDE	RWRITERS
BFG	-	BELOW FINISHED GRADE	V	-	VOLT	AGE
BKR	-	BREAKER	W	-	WAT	ſS
CKT	-	CIRCUIT	XFMR	-	TRAN	ISFORMER
DISC	-	DISCONNECT	XMTR	-	TRAN	ISMITTER
ЕМТ	-	ELECTRIC METALLIC TUBING		F		UNDERGROU
FSC	-	FLEXIBLE STEEL CONDUIT		-		ONDERVOIVO
GEN	-	GENERATOR		T - ·		UNDERGROU
GPS	-	GLOBAL POSITIONING SYSTEM	r	٩		KILOWATT
GRD	-	GROUND				UNDERGR
IGB	-	ISOLATED GROUND BAR				GROUNDIN
IGR	-	INTERIOR GROUND RING (HALO)		Ø		GROUND I
ΚW	-	KILOWATTS		•		
NEC	-	NATIONAL ELECTRIC CODE		•		CADWELD
PH	_	PHASE		×		GROUND RO





LOAD SERVED	VOLT A (WA	MPERES TTS)	WIRE	BR	EAKER	СКТ	PH.	ASE	СКТ	BREAK	KER	WIRE	VOLT A (WA	MPERES TTS)	LOAD SERVED
	Α	В		Ρ	TRIP	#			#	TRIP	Р		A	В	
LIGHTNING ARRESTOR	60		4	2	60	1		$^{-}$	2	30	2	10	2880		ACH2
		60					Ш	ᅫᄉ						2880	
ACH1	2880		10	2	30	5	ᡅ	1∧	6	20	1	12	540		INTERIOR RECEPTACLE
		2880					ЦЦ	<u>1</u>	8	20	1	12		120	SMOKE DETECTOR
INTERIOR RECEPTACLES	540		12	1	20	9		╧┤┯╌	10	125	2	1	5040		*UPS
INTERIOR LIGHTS		768	12	1	20	11	M	ᅫᄉ						5040	TECH PANEL PP2
EXTERIOR RECEPTACLE	180		12	1	20	13	M	<u>\</u>	14	30	1	-	-		SPARE
EXTERIOR LIGHTS		200	12	1	20	15		<u>1</u> ~	16	20	1	-		-	SPARE
WATER HEATER JACKET	120		12	1	20	17		<u>\</u>	18	20	1	-	-		SPARE
GEN. BATT. CHARGER		120	12	1	20	19		<u> </u>	20	20	1	-		-	SPARE
SPARE	-		-	1	20	21		1	22	20	1	-	-		SPARE
SPARE		-	-	1	20	23		ച്ച	24	20	1	-		-	SPARE
SPARE	-		-	1	20	25		<u>\</u>	26	20	1	-	-		SPARE
SPARE		-	-	1	20	27		<u>1</u> ~	28	20	1	-		-	SPARE
SPARE	-		-	1	20	29		<u>\</u>	30	20	1	-	-		SPARE
SPARE		-	-	1	20	31		ച്ച	32	20	1	-		-	SPARE
SPARE	-		-	1	20	33		\sim	34	20	1	-	-		SPARE
SPARE		-	-	1	20	35	M	ച്ച	36	20	1	-		-	SPARE
BATTERY CHARGER	2500		10	2	30	37	ᡅ	<u>\</u>	38	20	1	-	-		SPARE
		2500					ЦЦ	<u>1</u> ~	40	20	1			-	SPARE
VOLT AMPS PER LEG	6280	6528											8460	8040	VOLT AMPS PER LEG
						1474	40	1.	4568						TOTAL VOLT AMPERES
* ASSUMED LOADS						12	3		122	1					TOTAL AMPS PER LEC
							15	54		-					X 125% FOR GROWTH
						Г	1.	35							X 110% FOR MAIN

LOAD SERVED	VOLT A	MPERES TTS)	WIRE	BR	EAKER	СКТ	F	РНА	SE	СКТ	BREAK	KER	WIRE	VOLT A (WA	MPERES TTS)	LOAD SERVED
	A	В		Р	TRIP	#				#	TRIP	Р	1	A	В	
* EQUIPMENT RCPT-1	360		12	1	20	1		A	$ \land$	2	20	1	12	360		* EQUIPMENT RCF
* EQUIPMENT RCPT-3		360	12	1	20	7	$\frac{1}{2}$	в		8	20	1	12		360	* EQUIPMENT RCF
* EQUIPMENT RCPT-5	360		12	1	20	5		A		6	20	1	12	360		* EQUIPMENT RCF
* EQUIPMENT RCPT-7		360	12	1	20	7	$] \land$	В		8	20	1	12		360	* EQUIPMENT RCF
* EQUIPMENT RCPT-9	360		12	1	20	9	$] \land$	A		10	20	1	12	360		* EQUIPMENT RCP
* EQUIPMENT RCPT-11		360	12	1	20	11	\mathbb{A}	В	\vdash	12	20	1	12		360	* EQUIPMENT RCP
* EQUIPMENT RCPT-13	360		12	1	20	13	$] \land$	A		14	20	1	12	360		* EQUIPMENT RCP
* EQUIPMENT RCPT-15		360	12	1	20	15]~	В		16	20	1	12		360	* EQUIPMENT RCP
* TRANS. CKT#17	360		12	1	20	17	$] \land$	A	$\downarrow \land$	18	20	1	12	360		* TRANS. CKT#
* TRANS. CKT#19		360	12	1	20	19	$] \land$	В	\vdash	20	20	1	12		360	* TRANS. CKT#
* TRANS. CKT#21	360		12	1	20	21]_	A		22	20	1	12	360		* TRANS. CKT#
* TRANS. CKT#23		360	12	1	20	23	$] \land$	В		24	20	1	12		360	* TRANS. CKT#
* EQUIPMENT RCPT-25	360		12	1	20	25]_	A	$\downarrow \land$	26	20	1	12	360		* EQUIPMENT RCP
* EQUIPMENT RCPT-27		360	12	1	20	27		В	\vdash	28	20	1	12		360	* EQUIPMENT RCP
SPARE	-		-	1	20	29		A	$\downarrow \land$	30	20	1	-	-		SPARE
SPARE		-	-	1	20	31]_	В	$\downarrow \land$	32	20	1	-		-	SPARE
SPARE	-		-	1	20	33]_	A	\vdash	34	20	1	-	-		SPARE
SPARE		-	-	1	20	35		В	\uparrow	36	20	1	-		-	SPARE
SPARE	-		-	1	20	37		A	$\uparrow \land$	38	60	1	-	-		SPARE
SPARE		-	-	1	20	39		В		40	20	1	-		-	SPARE
VOLT AMPS PER LEG	2520	2520												2520	2520	VOLT AMPS PER
						50	40		5	6040						TOTAL VOLT AMP
* ASSUMED LOADS						4	2			42						TOTAL AMPS PER
								53	_							X 125% FOR GRC
								58								X 110% FOR MA

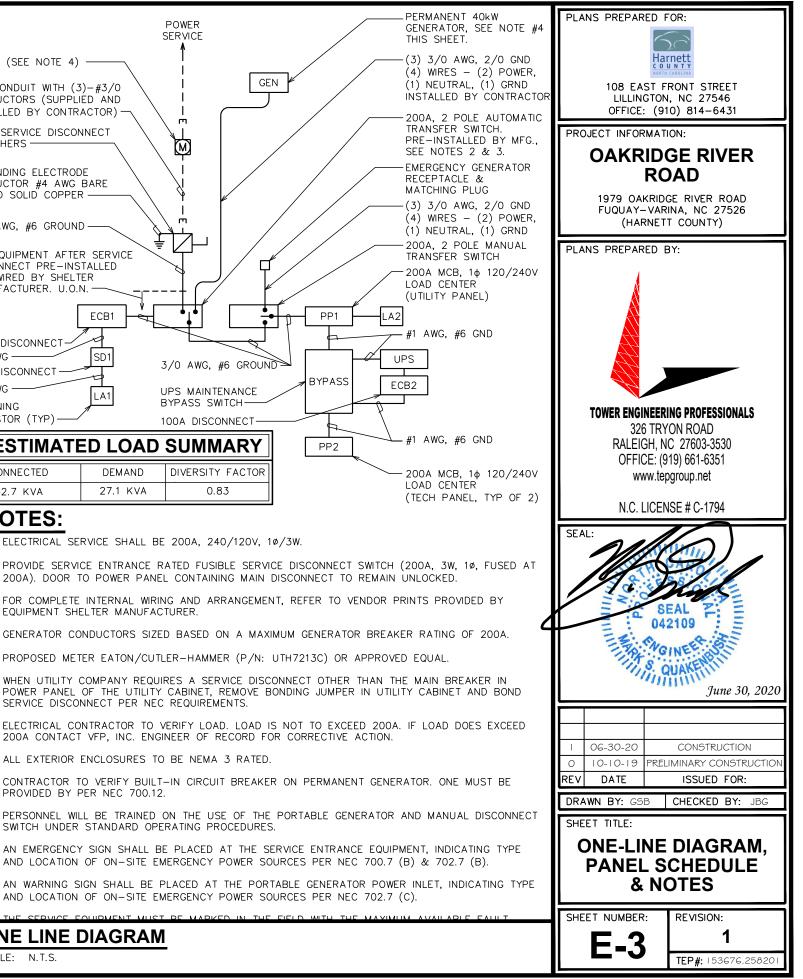
			POWER SERVICE			PERMANENT 40kW GENERATOR, SEE NOTE THIS SHEET.	
	METER (SEE NOTE 4) 2½" CONDUIT WITH (CONDUCTORS (SUPPL	3)-#3/0		GEN		(3) 3/0 AWG, 2/0 GNI (4) WIRES – (2) POWE (1) NEUTRAL, (1) GRNE INSTALLED BY CONTRA	
	INSTALLED BY CONTR 200A SERVICE DISCO BY OTHERS	RACTOR) —				-200A, 2 POLE AUTOMA TRANSFER SWITCH. PRE-INSTALLED BY MF SEE NOTES 2 & 3.	
	GROUNDING ELECTRO CONDUCTOR #4 AWG TINNED SOLID COPPE	BARE			,	EMERGENCY GENERATO RECEPTACLE & MATCHING PLUG	
	3/0 AWG, #6 GROUN	Ţ				-(3) 3/0 AWG, 2/0 GNI (4) WIRES – (2) POWE (1) NEUTRAL, (1) GRNE -200A, 2 POLE MANUAL	
	ALL EQUIPMENT AFTE DISCONNECT PRE-IN: AND WIRED BY SHEL MANUFACTURER. U.O	STALLED TER				TRANSFER SWITCH 200A MCB, 1¢ 120/24 LOAD CENTER (UTILITY PANEL)	
_	200A DISCONNECT-	ECB1				#1 AWG, #6 GND	
	#4 AWG 60A DISCONNECT #4 AWG LIGHTNING ARRESTOR (TYP)	LA1 L	3/0 AWG, #6 GR JPS MAINTENANG 3YPASS SWITCH- 00A DISCONNEC	E BYPA		PS I IB2	
		ED LOAD			2	.#1 AWG, #6 GND	
0	CONNECTED 32.7 KVA	DEMAND 27.1 KVA	DIVERSITY FAC 0.83			200A MCB, 1¢ 120/24 LOAD CENTER (TECH PANEL, TYP OF	
	NOTES: 1. ELECTRICAL SI	ERVICE SHALL BE	200A, 240/120)V, 1ø/3W.			
	2. PROVIDE SERVICE ENTRANCE RATED FUSIBLE SERVICE DISCONNECT SWITCH (200A, 3W, 1Ø, FUSED / 200A). DOOR TO POWER PANEL CONTAINING MAIN DISCONNECT TO REMAIN UNLOCKED.						
	 FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT SHELTER MANUFACTURER. 						
	4. GENERATOR CONDUCTORS SIZED BASED ON A MAXIMUM GENERATOR BREAKER RATING OF 200A.						
	5. PROPOSED METER EATON/CUTLER-HAMMER (P/N: UTH7213C) OR APPROVED EQUAL.						
	 WHEN UTILITY COMPANY REQUIRES A SERVICE DISCONNECT OTHER THAN THE MAIN BREAKER IN POWER PANEL OF THE UTILITY CABINET, REMOVE BONDING JUMPER IN UTILITY CABINET AND BOND SERVICE DISCONNECT PER NEC REQUIREMENTS. 						
-	 ELECTRICAL CONTRACTOR TO VERIFY LOAD. LOAD IS NOT TO EXCEED 200A. IF LOAD DOES EXCEED 200A CONTACT VFP, INC. ENGINEER OF RECORD FOR CORRECTIVE ACTION. 						
	8. ALL EXTERIOR	8. ALL EXTERIOR ENCLOSURES TO BE NEMA 3 RATED.					
	 CONTRACTOR TO VERIFY BUILT-IN CIRCUIT BREAKER ON PERMANENT GENERATOR. ONE MUST BE PROVIDED BY PER NEC 700.12. 						
	10. PERSONNEL WILL BE TRAINED ON THE USE OF THE PORTABLE GENERATOR AND MANUAL DISCONNE SWITCH UNDER STANDARD OPERATING PROCEDURES.						
$-\parallel$	11. AN EMERGENC	Y SIGN SHALL BE	E PLACED AT TH	IE SERVICE ENTR	RANCE EQUIP	MENT, INDICATING TYPE	

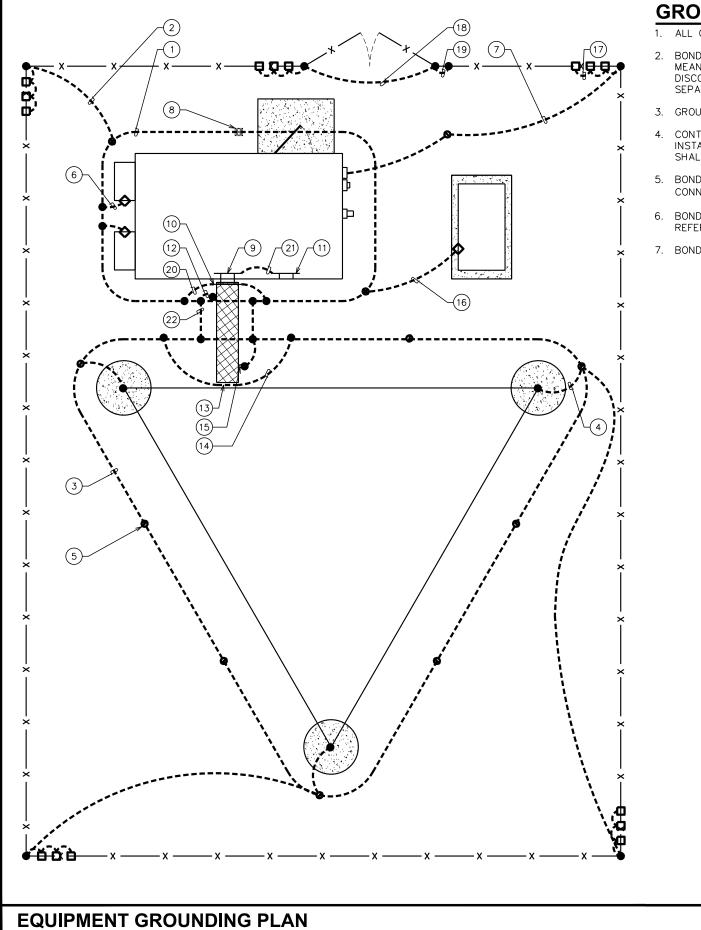
12. AN WARNING SIGN SHALL BE PLACED AT THE PORTABLE GENERATOR POWER INLET, INDICATING TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCES PER NEC 702.7 (C).

ONE LINE DIAGRAM

SCALE: N.T.S.

SCALE: N.T.S.

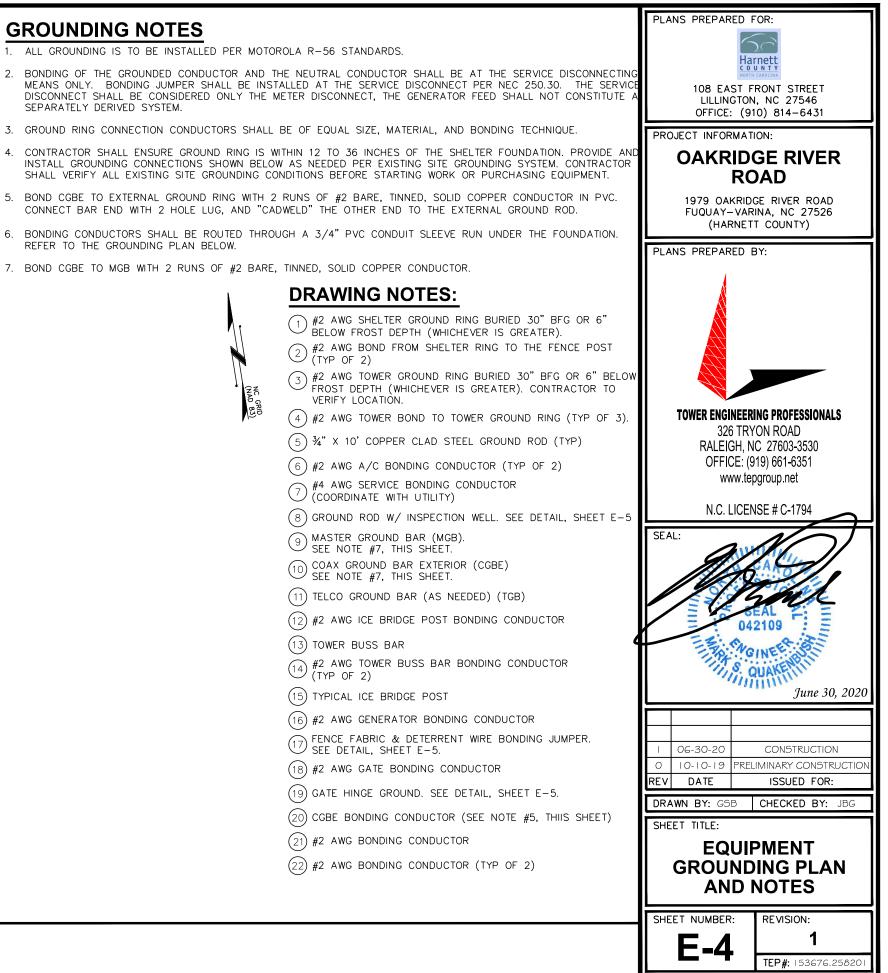




GROUNDING NOTES

- ALL GROUNDING IS TO BE INSTALLED PER MOTOROLA R-56 STANDARDS.
- SEPARATELY DERIVED SYSTEM.

- REFER TO THE GROUNDING PLAN BELOW.



SCALE: N.T.S.

