TOWN OF BARRE APPLICANT ACKNOWLEDGEMENT

Date:	6/26/2022	
Applicant:	Name: RTO WIRELESS LLC AGENT, G	EORGE CHIANIS
	Address: 271 CHELMSFORD ST, CHELM	MSFORD, MA 01824
	Telephone: 202-595-4034	
Subject Prop	perty: Address: <u>4709 OAK ORCHARD</u> Tax Lot No. <u>95.3-1-45</u>	ROAD
Referred to	Planning Board for:	X Site Plan Review
-	Special Use Permit	
unanticipate	hall reimburse the Town of Barre for all engineeried expenses incurred by the Town in review of the arse the Town as expenses are incurred.	
an escrow ac	expenses are estimated to be greater than \$1,000. ccount be established in an amount determined by enished as expenses are paid by the Town.	
	due the Town of Barre shall be paid in full before (30) days of final action taken by the Planning E	
I, <u>GEOF</u>	-	tement and agree to the terms and
	George Chianis	6/26/2022
Applicant's S	ignature	Date
Fee's	paid	

TOWN OF BARRE PLANNING BOARD

APPLICATION

(See Instructions and Procedures Attached)

	Da	te Received:	
1.	I (we) hereby apply to the Town Planning Board:	ı Special Use Perm	it
Pu	ursuant to Section for the Town of Barre Zoning Regulations:	ARTICLE IX, ARTICL	EX
	SECTION 719		
2.	LOCATION: Address 479 OAK ORCHARD ROAD Current Zoning: LI Sht Industr	Tax_Lot No	95.3-1-45
	Current Zoning: 41311 - WOUSTM	IAY AS	1/62.
3.	OWNER: TOWN OF BARRE	Telephone:_	585-589-5100
	Address: 14317 WEST BARRE ROAD, ALBION NY	Zip:14411	·
	APPLICANT: RTO WIRELESS LLC	Telephone:_	202-595-4034
	Address: 271 CHELMSFORD ST, CHELMSFORD, MA	Zip:018	24
	AGENT: GEORGE CHIANIS	Telephone:_	202-595-4034
	Address: 271 CHELMSFORD ST, CHELMSFORD, MA	Zip:0182	24
	the applicant is not the owner or if there is an applicant/agent, pl RTO WIRELESS LLC HAS A LEASE WITH THE TOWN OF BARRE	ease explain:	
4.	. DESCRIBE BRIEFLY THE DETAILS OF THIS REQUEST:TO CO	-LOCATE ON THE I	EXISTING
4.	WATER TANK TOWER STRUCTURE WITH 3 PANEL ANTENNA	S AND 2 PARABO	C DISHES
	AND A RADIO STATION EQUIPMENT CABINET LOCATED AT	THE BASE OF THE	STRUCTURE.
SIC	IGNATURE(s): George Chianis	DATE:	6/26/2022
	U U	DATE:	

AGRICULTURAL DATA STATEMENT

Per § 305-a of the New York State Agriculture and Markets Law, any application for a special use permit, site plan approval, use variance, or subdivision approval requiring municipal review and approval that would occur on property within a New York State Certified Agricultural District containing a farm operation or property with boundaries within 500 feet of a farm operation located in an Agricultural District shall include an Agricultural Data Statement.

A.	Name of applicant:	RTO WIRELESS LLC			
	Mailing address:	271 CHELMSFORD ST	REET		_
		CHELMSFORD, MA 01	1824		- _
В.	Description of the pro	posed project: Broadband	l Service Facili	ty co-loca	ting on existing 125' Water
То	wer Structure with 3 pa	nel antennas and 2 paraboli	ic dishes moun	ited at a h	eight of 105' with a Radio
St	ation Equipment Cabine	et enclosed with existing fen	ce/locked gate	accessed	by existing access road.
C.	Project site address:	4709 OAK ORCHARD R	OAD	Town: _	BARRE
D.	Project site tax map n	umber: 95.3-1-45			
E:	The project is located	on property:			
		al District containing a farm hin 500 feet of a farm opera		an Agricu	Itural District.
F.	Number of acres affect	cted by project:	.000	5	_
G.	Is any portion of the p	roject site currently being fai	rmed?		
	☐ Yes. If yes, ho	ow many acreso	or square feet _		_?
Н.	Name and tax parcel i	identification number or add	ress of any ow	ner of lan	d containing farm
оре	erations within the Agric	cultural District <u>and</u> is located	d within 500 fee	et of the b	oundary of the
pro	perty upon which the p	roject is proposed.			
1	A# 95.0	-1-66			
		00-1-7			
_				5 (2 No. 1992)	
I. loc		urrent tax map showing the sidentified in Item H above.			
~ ~	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	FARM N	OTE	. ~ ~ ~ ~	
oth or r	er conditions that may be	be aware that farm operations objectionable to nearby proper within State Certified Agriculture	rties. Local gove	ernments s	hall not unreasonably restrict
~ ~	. The sale and the test that the the the the	של אלה אלה אלה אלה אלה אלה אלה אלה אלה אל		The second of the second of	
	GEORGE CHIANIS, A	GENT		6/26/202	2
	Name and Title of Pe	erson Completing Form		Da	te

Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information			
Name of Action or Project:			
060020 / Barre WT			
Project Location (describe, and attach a location map):	99		
4709 Oak Orchard Road, Barre, Orleans County, NY 14411 (43.1850806, -78.1923583)			
Brief Description of Proposed Action:			
RTO Wireless, LLC proposes to collocate three (3) panel antennas (one antenna per sector) a centerline height of 105-feet on the existing 125-foot water tank that is located on the eastern 1993. Additionally, RTO Wireless, LLC proposes to install a proposed wireless equipment cat 5-foot by 5-foot lease area under the water tank. Proposed antenna cables will be routed from proposed equipment cabinet. Proposed electrical conduit will be routed underground from the with electric meter. The Project Site will be access via an existing access road from Oak Orch	portion of the Subject Propert linet on a proposed 4-foot by the proposed antennas, dow proposed equipment cabinet	y and was con 4-foot pad loca n the water tar	structed in ted within k leg to the
Name of Applicant or Sponsor:	Telephone: 207-240-7204	ŀ	
RTO Wireless, LLC	E-Mail: dave@rtowireless	s.com	
Address:			
45 Concord Street	*	Ē	
City/PO:	State:	Zip Code:	
Framingham	MA	01701	
1. Does the proposed action only involve the legislative adoption of a plan, local administrative rule, or regulation?	ii iaw, ordinance,	NC	YES
If Yes, attach a narrative description of the intent of the proposed action and the emay be affected in the municipality and proceed to Part 2. If no, continue to ques		at 🗾	
2. Does the proposed action require a permit, approval or funding from any other	er government Agency?	NC	YES
If Yes, list agency(s) name and permit or approval:		V	
a. Total acreage of the site of the proposed action? b. Total acreage to be physically disturbed? c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?	0.0005 acres 0.0005 acres 2.2 acres		'
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. Urban Rural (non-agriculture) Industrial 🗹 Commerci	al 🗹 Residential (subur	ban)	
Forest Agriculture Aquatic Other(Spe	cify): Water tank / telecom	munications fa	cillty
☐ Parkland			

5.	Is	the proposed action,	NO	YES	N/A
	a.	A permitted use under the zoning regulations?	V		
	b.	Consistent with the adopted comprehensive plan?		V	
6	Ťe.	the proposed action consistent with the predominant character of the existing built or natural landscape?		NO	YES
υ.	19	the proposed action consistent with the predominant character of the existing durit of natural landscape:			V
7.	Is	the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
IfY	es,	identify:		V	
8.	a.	Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
	b.	Are public transportation services available at or near the site of the proposed action?		V	
	c.	Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed			
		action?		~	Ш
9.	D	oes the proposed action meet or exceed the state energy code requirements?		NO	YES
Ift	he p	proposed action will exceed requirements, describe design features and technologies:			
The	וסזמ	posed action meets state energy code requirements			
_					
10.	W	fill the proposed action connect to an existing public/private water supply?	_	NO	YES
		If No, describe method for providing potable water:		V	
11.	W	'ill the proposed action connect to existing wastewater utilities?		NO	YES
		If No, describe method for providing wastewater treatment:			
				V	
		Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district	t	NO	YES
		is listed on the National or State Register of Historic Places, or that has been determined by the hissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the	;	V	
		Register of Historic Places?			
arc	b hae	Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for cological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			
13.		Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain		NO	YES
	W	etlands or other waterbodies regulated by a federal, state or local agency?			
	b.	Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?		~	
If	Yes	, identify the wetland or waterbody and extent of alterations in square feet or acres:			
				1500	Tue To
					N=

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
Shoreline Forest Agricultural/grasslands Early mid-successional		
☐ Wetland ☐ Urban ☑ Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered? Northern Harrier (immediate project area is maintained lawn, no habitat present)		V
16. Is the project site located in the 100-year flood plan?	NO	YES
	V	
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,	~	
a. Will storm water discharges flow to adjacent properties?		
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?		
If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	NO	YES
If Yes, explain the purpose and size of the impoundment:		
		$ \sqcup $
	710	1/20
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	NO	YES
If Yes, describe:		
	~	
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?	110	1 23
If Yes, describe:		
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BE MY KNOWLEDGE	ST OF	
Applicant/sponsor/name: RTO Wireless, LLC Date: 6/23/2022		
As at		
Signature: Mr. Chris Adams Title: Consultant for Applicant		

VIA HAND DELIVERY

Town of Barre NY Planning Board 14317 West Barre Road Barre, NY 14411

Re: Application for Special Use Permit/Site Plan Review

Applicant: RTO Wireless, LLC

Property Address: 4709 Oak Orchard Road

Property Tax ID: Map 3 / Lot 25-3

Zone: Light Industrial

Proposed Use: Broadband Service Facility

Zoning Regulations: Section 719, Article IX, Article X

CEO Shellye Dale-Hall,

As agent for and on behalf of RTO Wireless LLC ("RTO"), the Applicant, we are hereby submitting this correspondence in support of the above-referenced application for a Special Use Permit/ Site Plan Review from the Town of Barre Planning Board (the "Board"). The Applicant seeks to install and operate a Broadband Service Facility (the "Facility") on the Town of Barre Water Tank Tower ("the Tower"). The Property is in the Light Industrial District and the Facility is permitted upon approval by the Board in this district.

The applicant seeks to install and operate the Facility consisting of three (3) panel antennas and two (2) parabolic dishes and coaxial cables mounted to the Tower. Further the proposal also includes a Radio Station Equipment Cabinet (the "Cabinet") located at the base of the Water Tower. The Applicant's facilities are shown on the plans attached hereto and incorporated herein by reference (the "Plans").

l. Background

The Applicant, RTO Wireless LLC ("RTO") builds and operates wireless broadband services in rural markets. RTO was recently awarded a contract by Orleans County to deploy broadband services throughout the entire county. RTO is a member of Microsoft Airband consortium of companies that aims to eliminate the broadband deficiencies in rural markets. RTO supported Barre during Covid by providing a free public WiFi network for residents at the front of Town Hall on West Barre Road.

II. The Facility

The Applicant proposes to install three (3) panel antennas and two (2) parabolic dishes, which consists of a dish one foot (1' diameter) and a second dish 3 feet (3'diameter) to the proposed one hundred twenty-five (125') Water Tower at a centerline height of one hundred five feet (105'). The Applicant's Facility will also include a radio equipment cabinet located on a concrete pad, four feet by four feet (4'x4'). The equipment cabinet will be located within and surrounded by an existing fence and locked gate.

After installation, the Facility will be unmanned and will only require occasional maintenance visits. The only utilities required to operate this Facility are standard 100-amp service. (See attached "Plans"). Other specifics regarding the proposed Facility are as follows:

- 1. The proposed Facility will be in the Light Industrial District which is in the targeted coverage area.
- 2. The Facility will comply in all respects with radio frequency emission standards established by the FCC.
- 3. The proposed Facility will not have any adverse effect on the value of land and buildings in the neighborhood or on the amenities thereof. The proposed use is passive, requires no employees on the premises, and has no characteristics that are incompatible with the underlying zoning. Specifically, it will generate only an occasional vehicle trip by a service technician for routine maintenance, will be served by standard electrical and requires no water, septic, or other town services.
- 4. The proposed Facility will promote and conserve the convenience and general welfare of the inhabitants of the Town by enhancing Broadband services within the Town.
- 5. The proposed Facility will not create overcrowding of land or undue concentration of population because it is an unmanned Facility.
- 6. The proposed Facility will preserve and increase the amenities of the Town by enhancing Broadband services.
- 7. The proposed Facility will not create adverse effects on public and

- private water supplies and indeed will utilize no water at all.
- 8. The proposed Facility will not create adverse effects on drainage, schools, parks, open space, or other public requirements.
- 9. The proposed Facility will not create excessive noise or pollution to the environment.
- 10. The proposed Facility will not create adverse effects on historic sites.

The Facility will comply with all applicable local, state, and federal safety codes.

RTO Wireless/ Town of Barre Agreement

1. <u>Galvanized Steel Conduit/Bonus</u>. Landlord shall be entitled to a One Thousand Dollar (\$1000.00) "Bonus" to be paid to Landlord by the Tenant within thirty (30) days after the full execution of the Tower Lease and Ground Space Agreement and once the Tenant has secured all necessary Federal, State, County and Municipal permits which allows for the start of construction.

This Document's "Bonus" intent is for the Landlord to purchase a One Hundred Twenty Foot (120') One Inch (1") Galvanized Steel Conduit. The Tenant will install the Landlord's above-mentioned Conduit to the height of One Hundred Feet (100') adjacent to the Tenant's Conduit during the Tenant's installation. The Tenant will incur the cost of the One Thousand Dollar (\$1000.00) installation fee.

- 2. <u>Utilities</u>. The Tenant shall pay the Landlord a one-time annual fee (Lease Year One) for Utilities (National Grid) in the sum of One Thousand Eight Hundred Dollars (\$1800.00). This fee represents an estimated One Hundred Fifty Dollars (\$150.00) per month Utility cost for the operation of the Tenant's Communication Service. The Tenant will install a measuring instrument to gauge the amount of power used. The measuring instrument and the Landlord's monthly Utility bill at the Site will provide an accurate Tenant's Utility cost. This cost will be adjusted annually according to the aforementioned process.
- 3. <u>WiFi Service</u>. The Tenant shall attempt to provide, to the best of its capabilities without guarantee, WiFi service to a certain section of property owned by the Landlord adjacent to or near Oak Orchard Road and Rice Road. Tenant will provide the WiFi device and monthly connectivity service at no charge to the Landlord (complimentary) for the term of the Lease and any renewal periods.

Brief to the Barre Planning Board In Support of the Application for a Broadband Service Facility (Co-Location) at 4709 Oak Orchard Road Barre, NY

RTO Wireless, LLC. ("RTO") the applicant, has submitted an application for Special Use Permit and Site Plan Review for a Broadband Service Facility, Special Use Permit/Site Plan Submittal Requirements of the Town of Barre Zoning Regulations. RTO respectfully submits that its application is consistent with the intent and purpose of the Site Plan Review criteria and meets the criteria of the Site Plan Submittal Requirements, in addition to meeting the purpose and goals of Article IX and Article X.

Specifically RTO is seeking all necessary approvals for the proposed Broadband Service Facility which includes co-locating on the existing 125 feet Water Tower structure (See attached plans). RTO's installation includes three (3) panel antennas and two (2) parabolic dishes mounted to the existing Water Tower Structure at a center line height of 105 feet with an unmanned Radio Station Equipment Cabinet (See attached Plans). The Radio Station Equipment Cabinet will be enclosed with an existing chain-link fence accessed by a locked gate and will be accessed by the existing access road.

The proposed facility will require an occasional maintenance visit, thus, avoiding any traffic to the site. No sewer, septic or water are required. Other specifics regarding the proposed site are as follows:

- Surface Water Drainage. The proposed installation will have no impact on surface water drainage.
- Circulation. The proposed installation will have no impact on circulation.
- Utility Service. The proposed installation requires only 100 amp service.
- Advertising Features. The proposed installation will have no sign or other advertising features.
- Safety. All equipment is self-contained, and access is limited.
- Microclimate. The proposed installation will not emit heat, vapor or fumes nor will it impact lights, air, or water resources or on noise and temperature levels or immediate environment.

The proposed facility will comply with all applicable local, state, and federal safety codes.

Article IX Standards

Basic Requirements

1 Ingress and Egress

The proposed facility will require an occasional visit thus avoiding any traffic to the site.

2 Noise

There will be no excessive noise at unreasonable hours. There will be no emissions of dust, fly ash, fumes, vapors, or gases. The proposed Broadband Service Facility will not produce any light or reflections or that light beyond its lot lines.

3 Refuse/Service Areas

The proposal will have no impact.

4 Utilities

The proposed installation requires a 100-amp service (see Plans).

5 Storm Drainage

The proposed installation has no effect on storm drainage as the equipment cabinet is located in the existing compound. (See Plans).

6 Screening/Buffering

See Plans.

7 Signs/Lighting

There will be no signage or exterior lighting (see Plans for contact signage).

8 Yards/Open Space

Not applicable (see Plans).

9 Compatibility

The proposed installation is on an existing Water Tower Structure (see Plans).

SECTION 719 Telecommunication Facility

The applicant will conform with all building setback provisions as the proposal includes co-location on an existing Water Tower Structure. The height of the existing Water Tower Structure will not increase, nor will it violate the terms or conditions of any previous local approval.

The proposal encompasses the intent and purpose of the supplemental regulations by encouraging the use of high structures to minimize the visual effects of telecommunication towers and to minimize the total number of telecommunication towers in the community.

*RTO was recently awarded a contract by New Orleans County to deploy Broadband Services throughout the entire county.

*The proposal conforms with all applicable regulations promulgated by the Federal Communications Commission, Federal Aviation Administration, and all other federal agencies.

*The proposed installation is designed and constructed in a manner which minimizes visual impact to the extent practical.

*The proposal complies with the necessary requirements of this Ordinance

*The proposed site is the most technically feasible structure.

SECTION 1003 APPLICATION FOR SITE PLAN APPROVAL

An application for site plan approval shall be made in writing to the Code Enforcement Officer and shall be accompanied by information drawn from the following checklist. The Planning Board may require additional information, if necessary, to complete its review.

A. Plan Checklist for all Site Plans:

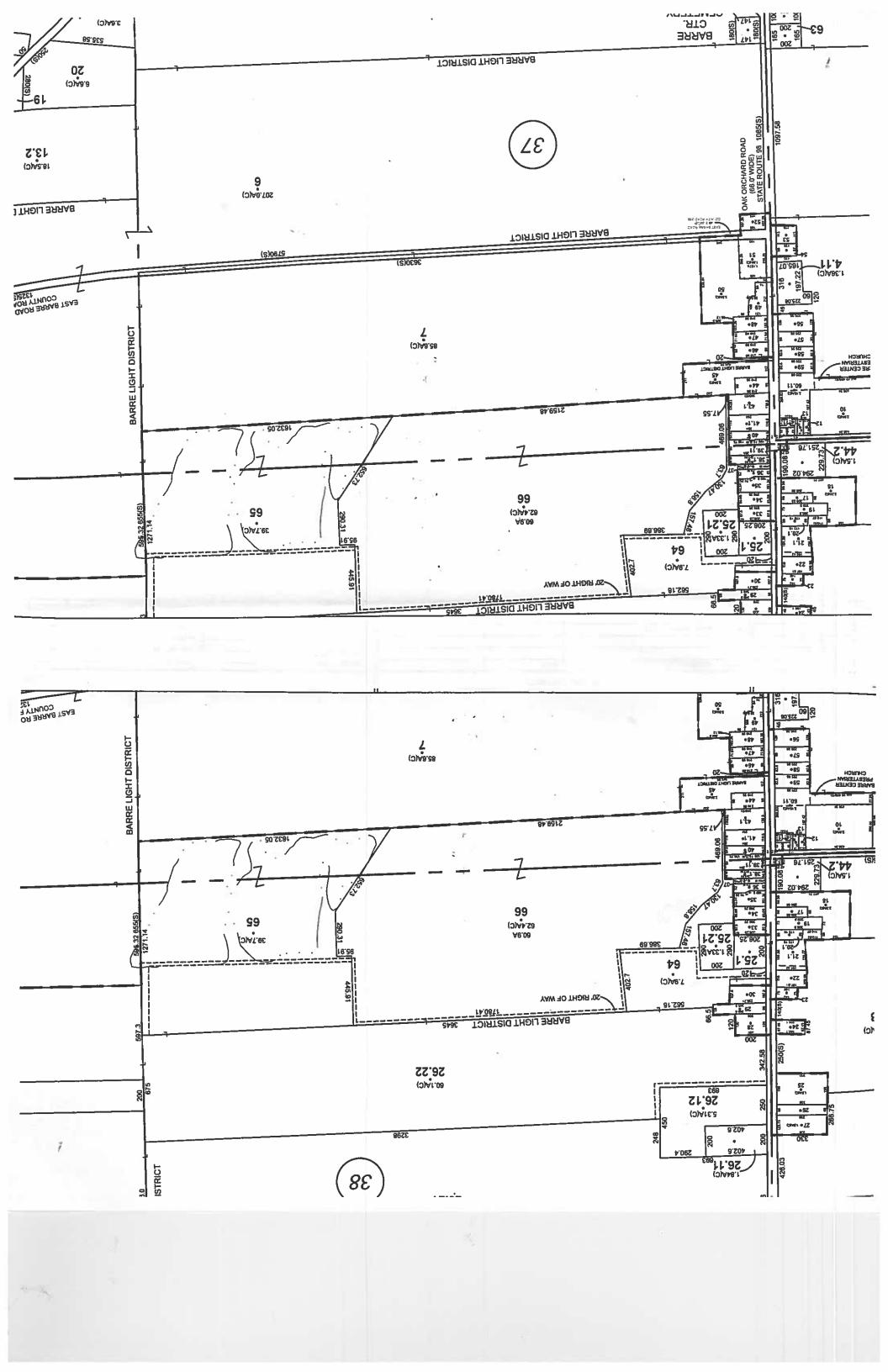
- Title of drawing, including name and address of applicant and person responsible for preparation of such drawing.
 See Plans.
- 2. North arrow, scale and date. See Plans.
- 3. Boundaries of the property plotted to scale. The Applicant respectfully requests a waiver.
- Existing watercourses and bodies of water.
 Not Applicable
- 5. Location of any slopes of five percent (5%) or greater. Not Applicable
- 6. Existing and proposed grading and drainage. Not Applicable
- Location, proposed use, and height of all buildings and site improvements including culverts, drains, retaining walls and

fences. See Plans.

- 8. Location, design and construction materials of all parking and truck loading areas, showing points of entry and exit from the site.

 Not Applicable
- Location of outdoor storage, if any.
 Not Applicable
- Description of the method of sewage disposal and location of the facilities.Not Applicable
- 11. Identification of water source; if well, locate on drawing.
 Not Applicable
- Location, size and design and construction materials of all proposed signs.
 See Plans
- Location and proposed development of all buffer areas, including existing vegetation cover.
 Not Applicable
- 14. Location and design of outdoorlighting facilities.
 Not Applicable
- General landscaping plan.
 Not Applicable
- 16. Copy of property deed and a listing of all deed restrictions.

 The Town of Barre and RTO Wireless have an executed Lease dated June 11, 2022.





SITE NAME:

BARRE

060020 SITE NUMBER:

SITE ADDRESS:

4709 OAK ORCHARD ROAD **BARRE, NY 14411**

PROPERTY CHARTE. STE ADDRESS: COUNTY: INMUNIORIZED ALTENEINS ON ADTRICAS TO A DOCUMENT READED THE SEAL OF A LEDGED THE PROFESSION OF SETTING ATTENT SUBSCIENCE OF THE PROFESSION OF SETTING ATTENT STATES SUBSCIENCE OF THE PROFESSION OF SETTING ATTENT SHOWS THE THE PROFESSION OF SETTING ATTENT OF SECRETARY OF THE THE PROFESSION OF SECRETARY OF CONTRACTOR SHALL YETT THE STIE AND VIDEY ALL EXSTITUTE CONCITIONS AND DAIEDSIDIES PROOF TO SHACKENTON ON CONSTRUCTION. HE SHALL AMERICALITY METRY THE CHARACTER OF ANY DISCONTINUACES.

GENERAL NOTES

TOWireless

RTD BREAKS 845 CONCORD STREET FRAMEROWAL, NA 01701

BARRE FRE CO 4708 GAK ORCHARD R ALBIDIU, INT 14411

PROJECT DIRECTORY

SITE INFORMATION

PRAMECHAL MA 01701

ALBLA, EDICHEEDONG 3840 E. ROBNECH ROAD AMERIST, NY 14228 (710) 830-8147

SITE DESIDIEDE

ALBIDAL NT 16411

PREPARED BY:

ATO WATELESS, LLC GEORGE CHANGS (202) 595-403A

INTO CONTACT:

TOWN OF BARDE 95.3-1-45

ZOMMIC AUTOSCICCHOM

PROPERTY TAKE ID:

ZOWEG DISTRICTS

FI DIN FEEL NO

3840 E. ROBNISCH ROAD AMERIST, NY 14228 WWW.ALBULDHOLODIA

MANA STOCK CHEEK CANEER

125" WATER TANK

TOWOR TYPE:

MATER TAME

CLINEDAT USE: PROPOSED USE:

43 11" 08.37" N 43.1830883F 70 11 32.45 m -78.1823107#

LATTLIDE (IND 83):

LONGTHOS (NAO 83):

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FOR THANKS RESELVATION.

NEW YORK CODE OF COMPLIANCE

ALL WORK SHALL BE FEFFORMED AND METBALLS RETAINED IN ACCORDINGED WITH THE CURRENT EDITORS OF THE REST FLANK OF THE TOOL ADVERSED, AUTHORITIES, METHAGE OF HASS FLANK OF THE CONFERENCE AUTHORITIES, METHAGE OF HASS FLANK OF THE CONFERENCE OF THE CON BALDHO MECHWECA ELECTRICA



UNDERGROUND BERYNCE ALEKT - NEW YORK BI UTILITY NOTBECATION CENTER OF NEW YORK (800) 272-4440 (100) 272-4420 WWW.MEWYDRK-811.COM

CALL & WORKING DAYS APLAY METEROLOGY 6 TACK TO

LOCATION MAP

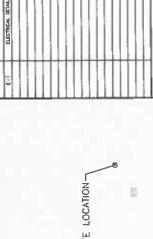
VICINITY MAP

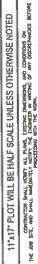


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SHEET NO.	1-1	1-6	A-1	4-2	A-3	Part .	A-3	

SHEET INDEX

A-1	OVERALL STE PLAN	
4-2	DUARCED SITE PLAN	
A-3	FONCE CLEMITON AND ANTENNA PLAN	
1	CONSTINCTION DETAILS - 1	
A-3	CONSTRUCTION DITIALS - 1	
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2-3	CROUNCHIC DITAILS - II	
1-3	ELECTRICAL DITIALS	
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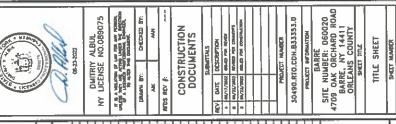


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SITE LOCATION





REQUIREMENTS SITE ACTIVITY

- 1. WITE OF PROCEEDS 100 PONE SHALL COMBACT FROM 10 FOLD PURCH AND STOCKED 100 PONE SHALL COMBACT FOR EATHER AND STOCKED

- THE RE-EMPOSE OF CONSTRUCTION DAMMING, THE TOLLDWING DETAILORS SHALL APPLIED.

 CONTRICTOR CARDIAL CONTRACTOR RESPONSED FOR CONSTRUCTION CARBERT RTD PROMISE.

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STRUCTURAL STEEL NOTES

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- BOTTS SHALL COMPLY WITH ACTU ALCO OF LANCE MATE AND WASCING SHALL BE COMMUNISHED WITH THE BOLL CHARLO LONG SELL COMMUNISHED WE SHALL CHARLO AS SHOCKIND IN "STITCHING, LINTER LISTON AND ALCO SELL CHARLO BALLO."
 - CONSCIONS SWLL BE BOLIZD WITH 1/4 BICH DAWETER A323-X HIGH STREAMH BILL'S OR BELIED LINE.
- MEDIAG SAUL COMTON TO THE AMERICAN WILLIAMS SOCITY (AME) "STRUCTION, WILLIAMS COOK —
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 WE NOT THE THINK STAN STRUCTION OF THE STAN AND SOLIT STRUCTION.
 - STELL SHOP DRAWNES AND FABRICATION SHALL CONTIDEA TO THE MSC CODE OF STANDARD PRACTICE, FOR STELL BUILDINGS AND BROCKS.
- STRUCTURM, STILL SOUP DRAWING, WICLIDGE COMMETTIONS, SAWL OF STRUCTURE DRAWING WORTH THE DRAWING OF A PROTECTION OF A PROTECTION OF A STATE OF A STATE
- STRUCTION, STILL FORESTORING WALL RESTORATED THE AN OPERATORING TO PRESENCE IN CONTRIBUTION OF THE STRUCTURE OF THE STRUCTURE
 - STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE PREPIRED BY COMMUNICAL BLAST CLEANING THEIR HOT-ERPICE GALMMAZED.
- IG. SHUDHG OF STRUCTURAL STEED SECTIONS, NOT HOCKATED ON CONTRACT DOCUMENTS, IS PREMITTED WITHOUT PREDIT WETTER APPRICAL BY THE STRUCTURAL ENGINEER OF RECORD.
 - II. ORESIT MEL CAMBER UPRATO DURAG FARRICADON AND DESTION.
- II. Alebram and stee memotys shall be thered on proporty separated to preydif calvame.

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- STEE FABRICATION IN SMALLY REPORTED. FOR SAMPTHIC AND VEHICATION OF DESTINAN CONTINUES SALLIUMING STATE LIGHTED IN THE LOCATIONS, LEGATIONS, AND DESCRIPES CONTINUES AND PRODUCE.
- ALL STEEL WORK SHALL BE PARTED IN ACCOMPANCE WITH THE PROJECT SPICEFCATORS AND IN ACCOMPANCE WITH ASTA ASK UNLESS OTHERWISE NOTES.

GROUNDING NOTES

- AL CROWN ILCTROPE SYSTYS (INCLINES TILICOMMUNICATION, MADE, UNIVERSITY WAS AN OF POWER CROSS) SAME is beloated tochholf at or either calout, fine on work copiety is constructed in accordance with the inti-
- THE CONTRACTOR SWALL PORTORN ETE FALL-OF-POTIOTIAL RESISTANCE TO LUMIN ITSTING (POR PETEL STOR AND 8.3) THE CROLLING OLICINOSE STITUSE, THE CONTRACTOR SWALL TAMBER AND PETELL SUPPLIABITIES, GROUND CLETHOOGS AS MEDIOD TO ACHIVE A TEST RESIST OF 3 DAMA DE ULSS.
- 3. THE CONTRACTOR IS RESPONSED FOR PROPIDEY SEQUENCING SPRONDED AND LINGUISHOOD OWN LINEAR STREET, THE OR CONCLUT WRITELLANDER A STREET, THE CONCLUT WAS PROVIDED STREET, THE CONCLUT WAS PROVIDED STREET, THE CONCLUT WAS PANEL TO CONCLUT WAS PANEL THE CONCLUTOR AND WASCE EXCEPTIONAL TO CONTRACTS WITH LEAST PROVIDED CONCLUTOR WITH 16 CONCLUT COMPANY.
- 5. WITH, BACTONN SHALL HOT BK UNED AS THE HELDHED EXCHANGE CHOUSE CONCURTOR STREAMOND THE SHALL BK CORPER CHOLOCITISES HITH POETS SHALL HOT STATE OF ALCOCITICATION THE WEST, SHALL BK CHORDERS THE SHALL BK CHORDERS THE WEST CHOLOTIS TO REST SACHARD.

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- B. ALL ENTITIONS ENGLISH CONCLUTIONS BETWEEN VENERAL PROPERTY.

 SHALL OF \$7. SOLID THREED COPPOSTS UNITESS OF STREET SECURITY.

 ALABAMIAN CONCLUTION ON EXPROPT CLAUS STREET EXPOSTS SHALL NOT BE USED FOR GROUNDING CONCLUTIONS.
- 10. LES OF WE BOACK IN The PROTECTION CHOUNDED CHOUCHORS SHALL BE AMORDS WICH 45 BOACK OF WE ACCUSATE SPRONTING THE SPRONTING TH

 - 13 CONFECTION ORGAN CONSECTIONS MAY RE REPLICED BY EXTREPORT WILD CONFECTIONS.
 14. EX BRIDGE RESOURCE CONSECUTIONS SHALL RE EXTREMENTALY BONGED ON REALTH TO THE REDOX.
 14. OF ET TOWER CHANGED BAIL.
- - IS DONG ALL METALES DRACES, WITHIN 8 IT OF MAN GROUND PING WITH (1) (2 BARE STAID THAGED COPPLETOR.
- 18. CARNARIO CONCENTRATO TO THE FACULTY GROUNDER AND LUFTHON PROTECTION PSYSTEMS AND LOCATION LEGISLAND THE CARNARIO CONCENTRATION THE CONCENTRATION OF THE CONCENTRATION OF THE CARNARIO PROCESS.

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CODES AND STANDARDS

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PROPARED BY:







08-23-2022

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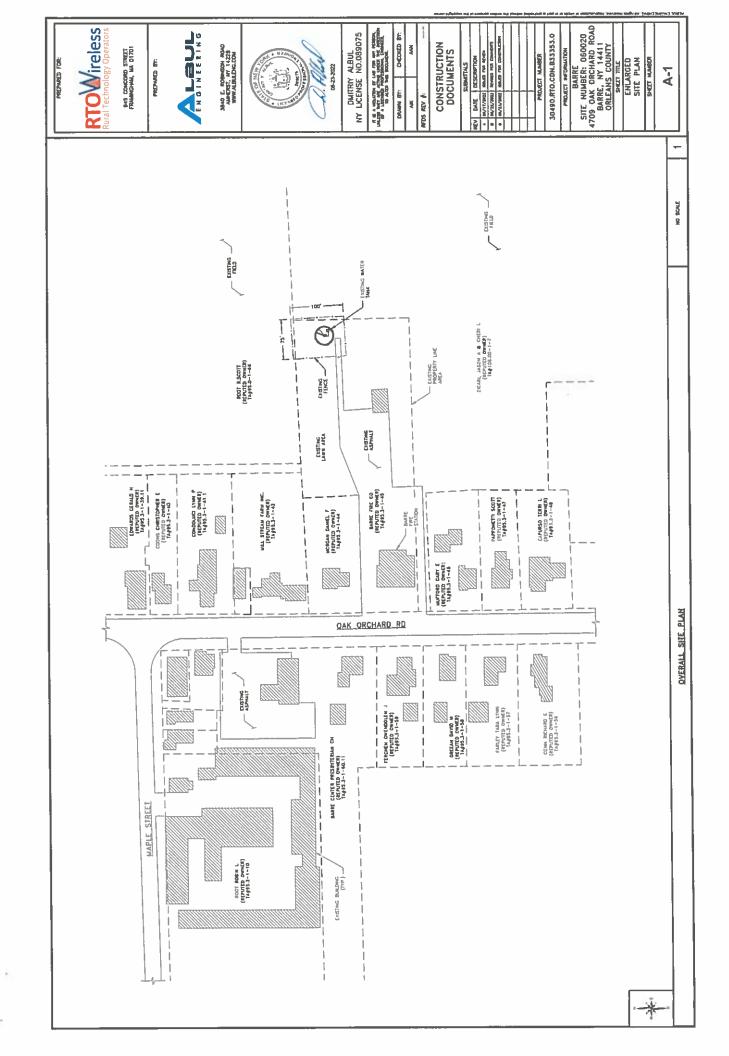
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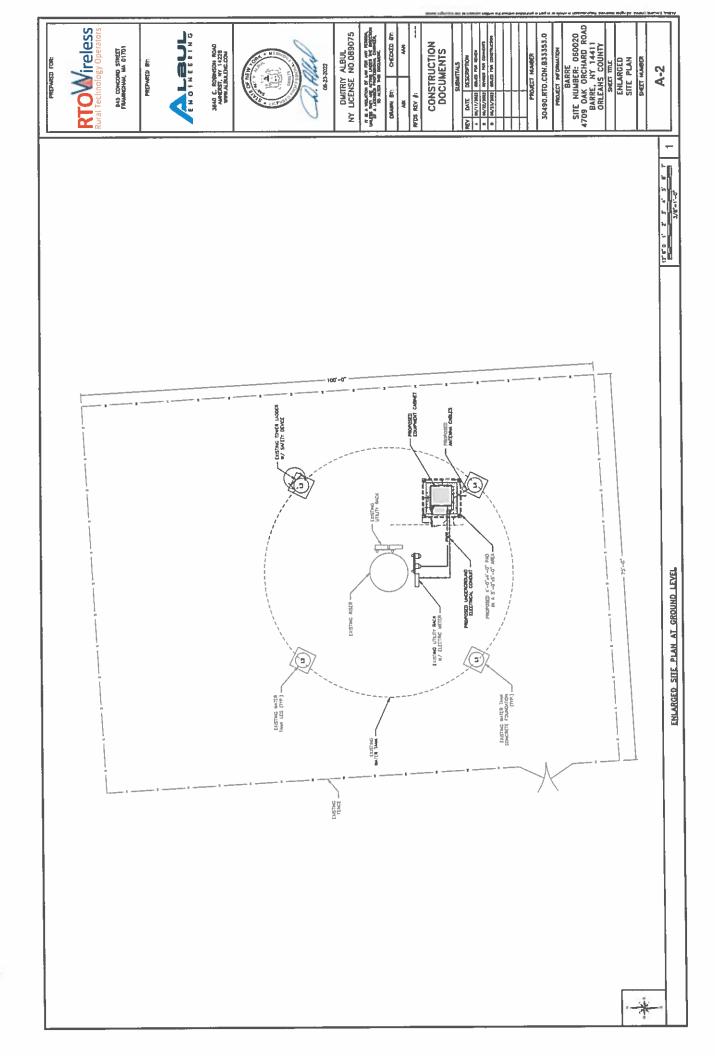
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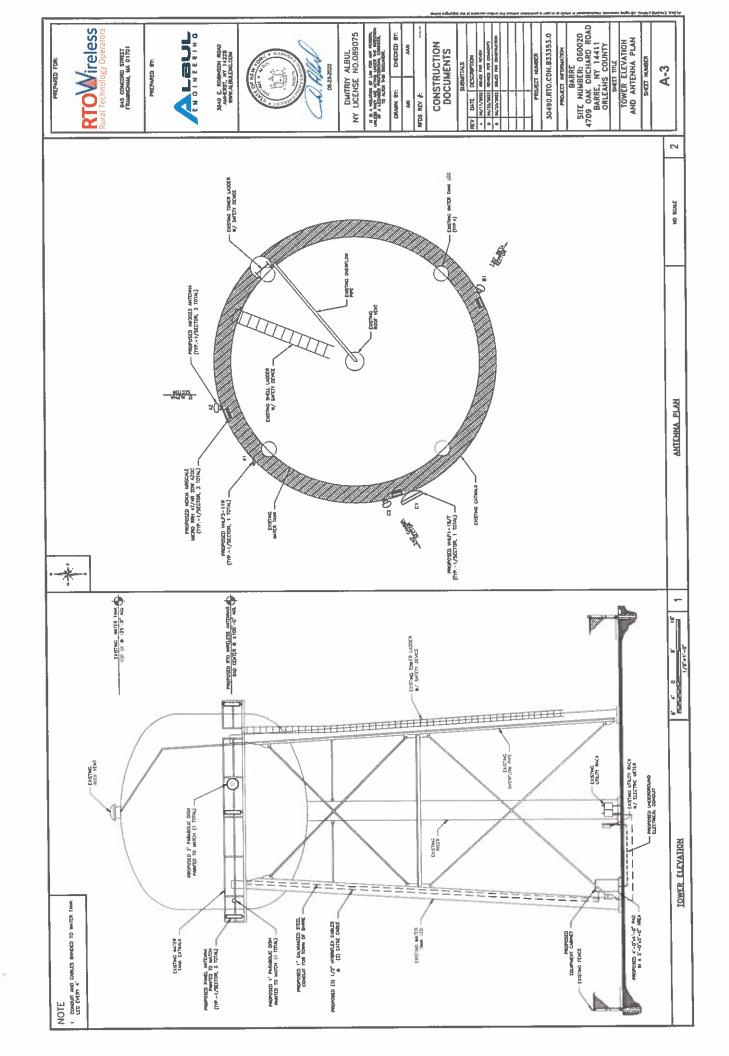
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4709 OAK ORCHARD ROAD
BARRE, NY 14411
ORLEANS COUNTY

GENERAL NOTES

SHEET HUMBER GN-1







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1. ALL PROPOSED CARLE LEMENIS WILLIOE 2018 FOR ENRICH, CONTINETON TO YAS. LEXICTH PRIOR TO DISCORDE.

MOUNTING BAKCKET (TVP.)

ANTENNA MOUNTING NOTES

- I, DESCH MIC CONSTITUCION OF ARTDAN SUPPORTS SHALL CONFORM TO CLIMEDIT MIC/TN-222 DR. MPLEUBLE LOCAL CODES.
 - 2. ALS TELL MATERIALS SHALL BE CALMARTED AFTER FARMLATTON IN ACCORDANCE WITH ASTER AT123 TONCH CHAPTER ATT. WITHOUT STATES WITH COMPANIES TONCH CHAPTER SHALL PRODUCTS. THE CHAPTER SHALL PRODUCTS WITH ATS ATT. MATCHES AND ENCOUNTERED. SHAPTERES SHALL SE CALMARTED ATT. MATCHES MATCHES MATCHES WITH ATT. STATE—COUNTER (FOT—FIRE) ON SHOW AND STILL MATERIALS, LALLES MATCHES ATT. THE CHAPTER SHALL BE RETARDED BY DOLD CHAMMEDIC ON ACCORDANCE WITH ASTER ATTER.
- 3. ALL WITH MOUNTS SHALL BE RESTALED WITH LIDER MATS, DOUBLE MATS, AND SHALL BE TRANSLED.

 10 WARRACTURIN'S RECOMMENDATIONS. G. CONTINCTOR SHALL RETAIL ANTONIA PER MANGRICH'S RECOMMENDATION TON INSTALLATION AND CONTINCTOR.
 - 7. ALL UNISED PORTS ON ANY ANTDRASS SHALL BE TERMINISED WITH A 30-OHM LOAD TO DISSURE ANTERNAS PERFORM AS DESCRICE.
- A MONTH OSTITUCA ANTIDAMENTA AND DIMENTING, MATERIA OCCURATION SHALL DESCRIBED AND THE TOTAL ANTIDAMENTA AND DIMENTING, MATERIA AND THE ANTIDAMENTA SHALL BE WHITH 4/- LASK ADDRED BY THE WORK, BUTTON TO ANO-COOKE.

 A AMPTER TROW THE THIS MAST TEMBERAL TO REPORTED THE AUGUSTATION OF LOAK ANTIDAMENT TO COMMITTEE AND THE AND THE
 - 11, PACE SPALL BE LICLARIED ON PIPE DIRECTLY BENNES AND EASTER TO ANTIDOM AS PEASERLE IN A MERICAL POSITION.
 - 12. ANTIDANS SHALL HARE A 4"-O" MIN CENTUR TO CENTUR HORIZONIAL SEPARATION

TORQUE REQUIREMENTS

- 1. At IN CONNECTIONS SHALL BE TEATINGS BY A TORDIC WINDOW.
 2. ALLE CONNECTIONS, CONLINEAR HARDWARK AND WINDOW HARDWARK SHALL HARE A TORDICOLOUS, CONLINEAR HARDWARK SHALL BY THE CONNECTION.
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T. PRETALL MAN PLA MARKET ACTUATES REQUIREMENTS

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RRH MOUNT DETAIL

38.02

- FIBER & POWER CABLE MOUNTING NOTES
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 - WEST DESIGNATE OFFICE PREST TRUM CARLES ON THRE TC-DF CARLES OFTO COMMUNIS, MFN. 70 (MCC), ANTICLE, 300 ROLLS SHALL APPLY.

GENERAL NOTES

- 1. If IS THE COMPACTORS RESPONSELLY TO VORMY ANTIDON, TANS, DIFFICIES, AND COAN COOKESANTING MARK AND AMORES, SPECIALLY TON STALLY THE WATALLED FOR TOWNSELS, SPECIALS, BACKPOC, ITC. SMALL BE RETALLED FOR TOWER WAYARDERS RECOMMEDIATIONS.
- A COMPACTOR SHALL RETREDICE THE TOWER STRUCTURAL ANALYSIS/DESIGN DIAMINGS FOR DIRECTIONS ON CABLE DESTRUCTION FROM THE COMPACT OF THE PROPERTY OF THE PROPERTY
 - 4. ALL OUTDON AF COMMUTING/CONNECTIONS SHALL EL METANONOUTH, LEGIST THE RITT, CONNECTION LONG STATE, SHALL METANGE SHALL METANGE

- A. IF REQUEST TO Parent JACTBANG WOUNDER COANS:
 A. TRESPOULDER SHALL SE AMONG THE WASHINGTON TO REALTHAND THE APPORTUNE OF SHALL SECURITY.
 D. TON RECLALIED THE TONGER, FAUNTED THE PROPRIEST OWN OF REQUESTED THE COANS CODING OFF ON TONE COMMUNICATION.



PROPOSED ANTONY (TYP.)

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PASS CONCORD STREET FRAMERICHAM, NA 01701

PREPARED BY:



SAF DISH VHLP3-11W

2. CONTRACTOR TO NUMBER DISCOVER MOUNTS AS PLA THE CHART ABOVE W/STANDARD GALVANGED STEE WITH ANTENNA MOUNT DETAIL

SOCIALI ANTIDRAS NIR DAMARFACTURIX RIGURINATION

NOTES

EXISTING/ PROPOSED PAPE MOUNT

ALPM WINGLESS AMPRO3 29 5 mm 17 (WM) 17 (M) 12 8 185

ENGINEERING PARTIES

JAAO E. ROBASON ROAD AMERIST, NY 14228 WWW.ALBULENG.COM

10. P. C. P. C. S. C. L. C. S. L. S.

Manager of marking a laborary and a law

STANDARD ACTURES ARCLUSTE LACKS TO A-9 SOME NIS

> .090 62.9

NOTES

VHLP1-18/F

SAF DISH

SHEET NAMBER

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CABBET MUST BE ANCHORED TO PLATFORM IN 4 LOCATIONS 2. CONTRACTOR TO CONTRA MANREN OF SATTOPY STRINGS 3. ALL AGSTALATION HADDRANE IS TO BE GALMACED. 1. MSTALL CARMET PER MANUFACTURED REQUIREMENTS

MITSURE 512 PONETH PLANT
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(RECEINES NOT INCLUDED)
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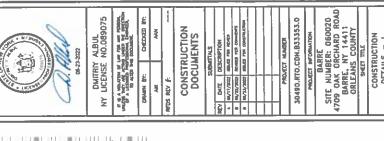
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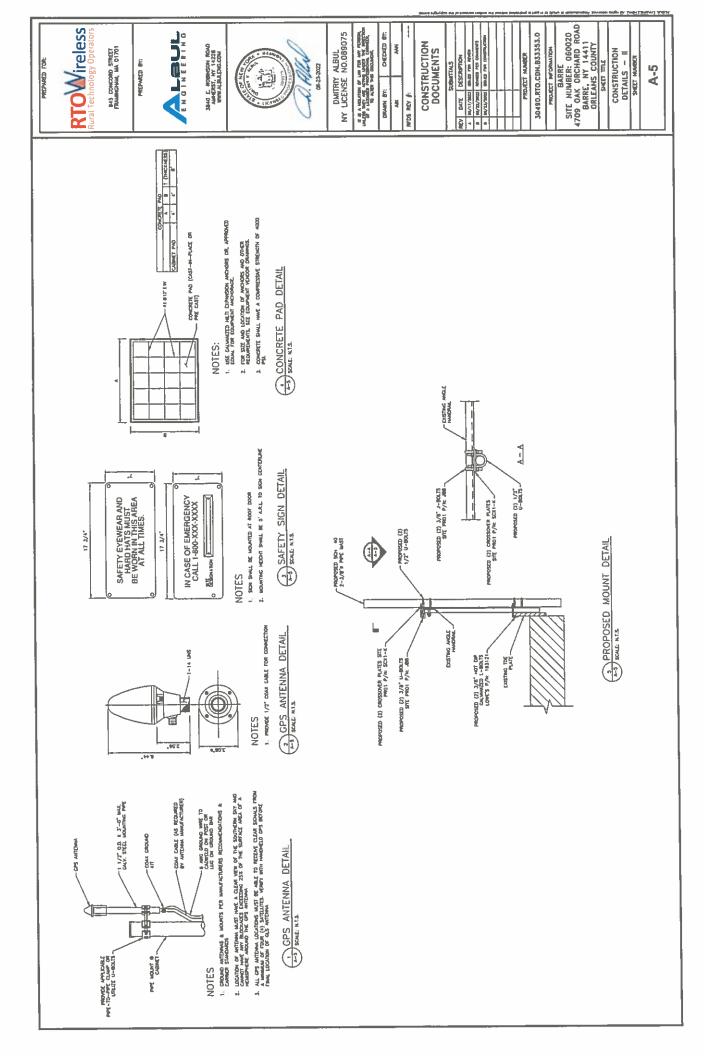
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GROUNDING GENERAL NOTES

- ALL DOWN CONCUCTORS AND THE GROUND RING CONDUCTION SHALL BY LIST, SALL SYALD BRIEF, THE OPENITY, IMPLIES, THOUTHIS ALL DOWN THE CONTROL OF TH
- GROUND RUCK SHALL BE 3/N" DAMPTER COPPER CLAS, HARGES, 186, DECC. ON EXAMADRS, TOP FOR FROD SHALL BE A MARKAR OF ST. 17 BELLOW MOUNTS, I ST. DECCHAFFED, SKSTALL GROUND ROD AS HA MOCLE, LIETTRICAL WITH GRAUND ROD EXCEPTION.
 - WHEN MICHANICAL CONNECTIONS ARE SPECIALLY, BOLITIL, COMPRESSION-THFE, CLAMPS OR SPITI-BOLT THE CONNECTIONS SHALL BE USED.
- ORRO OT CAMMEDIO IN ATTICITO MEA EXTREDIMENLY WID \$1 CONDUCTOR AT 8" MONE GIACE OT EXDENITION, INVESTIGATE IS INSPECT, COLD-CALV ATTIC. EXTREDIMENLY WELL OTHER LEGY TO CONFIDENT.
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- ALL CROUNDERS WHILE SHALL COMMY WITH A STATE CONTRACTION CONTRACT STANDANGS, FOLLOWING COMPACTION OF WHICH A RESTRICT OF § DANS ON LESS STANDARD AND SHALL HAND A RESTRUCT OF § DANS ON LESS STANDARD AND SHALL HAND STANDARD OF § DANS ON LESS STANDARD AND SHALL HAND STANDARD OF § DANS ON LESS STANDARD AND SHALL HAND SHALL H ď
- AL CHICAGNIC CONCENTIOS ON EXTENSION WALL OF SHELTER SHALL BY STATEMENT TO 17" BELDIN CAUGH. STANCED TO CHANGED TO CHANGE AND STANCES. CONTINCTON SPALL HAND-DIG IN ANEAS AROUND EXISTING UTILITIES.
 - MOTEV CONSTITUTION DIGGESTS IF THERE ARE ANY DIFFICALITIS INSTILLING CRIDINGING SYSTEM DUE TO STEE SOLL CONSTITUTES.
- GODJAKOM DRVO IS SKOWA AS SO-DANTE DARY. II IS DESCHOWNOUT REDETIT OF RESIDENTY TESTNA, AND DOST MATI RECESSARALY REPRESENT A DROJACOM SYSTEM TO METE ANY SPECIFIC GODJAKO PRESENACA. ģ
- PROPERTY POLIBIOG CONCRESS, ALL RESULP LOCATION MAY BE STORM OF RECOGNORISMY FOR THE CONCRESS OF THE TIES OF ORGANISM WAS A PROPERTY OF THE STORM OF THE CONCRESS OF THE CONCRES OF THE CONCRESS OF THE CONCRESS OF THE CONCRESS OF THE CONCRESS OF THE CONCRE
 - IN ACCOMMANZ WITH MED 2011 REQUIREMENTS, ALL CHOUNDING ELECTRODES PRESENT ON STIT SHALL BE BROKED TOCTHOR (PETDEDNEL 2011 MEL ARTICLE 230.50). 살

INSTALLATION NOTES

13. CALLK AND SEAL ALL HON-FACTORY SHELTER PENETRATORS

- 1 DUT AND RELIGIES A 2" SECTION OF CHRISE JACKET SHOWN IN FIGURE (F), USE CARE HOT TO COLUE. DR ONLSH THE CHRIS.
- CLIAN THE COPOSED SURFACE OF THE CHITTER CONCUCTION WITH BROWLE ON STEEL WOOL LIFTS, THE SURFACE IS FILTEN AND BROWNING, ALSO DELIN IS OF THE JACKET LICHS SEEK OF THE CLIT SURFACE, WITH A CLIM FLITH.
 - I, while the coperty cockeance claim and the expects dutte conduction. State the cockeance claim in the streeters still hose claim is found fit and its.
- CLAN THE SURVICE PROMODENT WERE THE SHALL ENDARGHED IS IN THE CHANGE THE CHANGE THREE THE CLAN OF A PRINCE THE REST OF A CHANGE THE CHANGE THE CHANGE THE SHALL BY THE CHANGE THE CHANGE THE THE CHANGE THE CHANGE THE A CHANGE THE CHA 4. ATLCH THE TWO HOLE DEDINGING LUG TO THE CHRIL GROLHGING CLAMP WITH $1/4^{\circ}{-}20$ -weddings. See figure β 2.

I. CROJNO DACTAM & SCICIATIC DAILY, ALL WHE SEES AND COMMECTIONS TO SE MADE POT CLIDIT SPECIFICATIONS.

NOTES

2. SCHEWING GROUNDING DACHAM IS FOR EACH SECTION

GROUNDING SCHEMATIC - NSB

1/4" - 28 NC v 1/2" SS BOLT & NUT WITH LOCKWASHERS

12% 1704

1000 17503

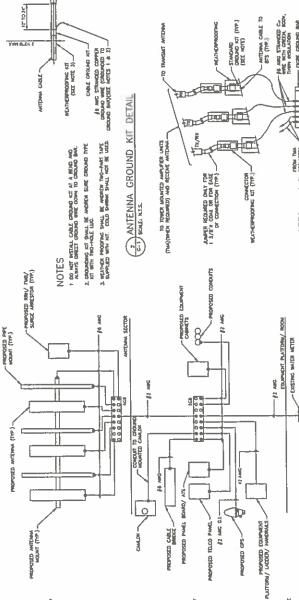
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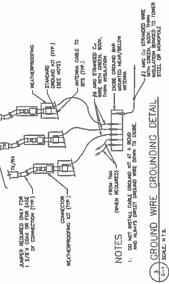
- BICT THE CHOLOGORO LLIC DATO THE PREPARED SURFACE WITH A 3/8" 16 MADDANEL, ATEN TOTATIONER, PART THE CHOLAGORO LLIC AND SURFOUNDING AREA WITH A ZHIC EASED CORMOSONI DISTRICT, MANY.
- WARN THE CHOLOLOGY LUE AND WINE AT THE CHARACTERS THIS RETURN LIBERS OF PRITTY OF REPAIR THIS CONTROL TO THE PATE WASHINGTON TO THE PATE WASHINGTON THE CHARACTERS OF CHARACTERS COLOR CONTROL CHARACTERS OF THE CHARACTERS COLOR CONTROL CHARACTERS COLOR COLOR CHARACTERS OF THE CHARACTERS CHARACTERS

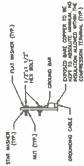
TESTING NOTES

- ALL TESTING SHALL HANG RESISTANCE OF 3 DHAS ON LESS
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 - TEST TO BE PERFORMED "C-ECK WITH CLIDNT FOR ADDITIONAL TEST THAT MAY BE REQUIRED WAS ADDITION TO THE FOLLOWING."
 - a. COMMUNEY FIDM MOB TO EDR
 - b. CONTINUENT TO CROUND RODS

SEBUT AN INCIPEDIDAY TALL-OF-POTDOTAL MUTMOOF TESTING REPORT, THREE EITS OF TESTING TO RECORDED AND SUBMITTED TO CALL STE CAMPER.







THO HOLE COPPER COMPRESSION TERRIBAN

STANLIS STOL HARDWAY

CADUCAGO

CROUND BAR

SECTION A-A

1. DOUBLING UP ON STACKING OF COARCITIONS IS NOT PERMITTED

NOTES

ELEVATION

2. DXXX PRESTING COMPOUND TO BE USED AT ALL LOCATIONS

MECHANICAL CONNECTION DETAIL



945 CONCORD STREET FRAMESHAL, MA DITO!

PREDVICE BY:



3840 E. ROBNSON ROAD AMEDIST, NY 14228 WWY ALBIREDIGLODA



DMITRIY ALBUL NY LICENSE NO.089075

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COCOCO BY ₹ DRAWN BY: WIDS REV #:

CONSTRUCTION DOCUMENTS

SUCHETALS

DESCRIPTION

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STATES FOR COMMUNICATIONS

SHALES FOR COMMUNICATIONS A 04/17/2022 0 0 04/25/7022 0 0 04/25/7022 0

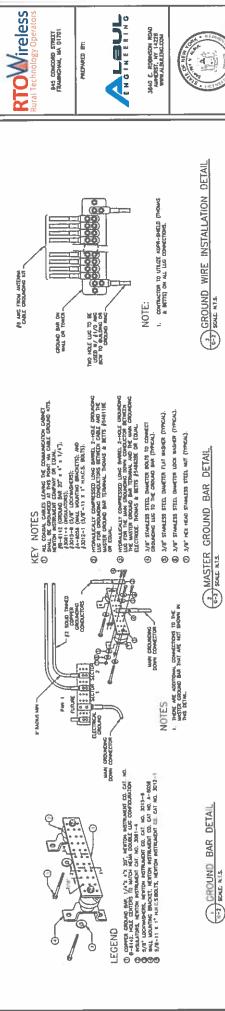
30490.RTO.CDN.B33553.0 PROJECT MARBER

PROJECT BATORLATION

SITE NUMBER: 060020 4709 DAK ORCHARD ROAD BARRE, NY 14411 ORLEANS COUNTY GROUNDING NOTES AND SCHEMETIC

SHEET NUMBER

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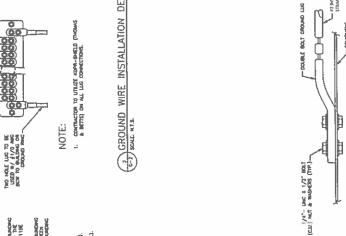


ENGINEERING NO.

PAS CONCORD STREET FRAMERICHM, MA 01701

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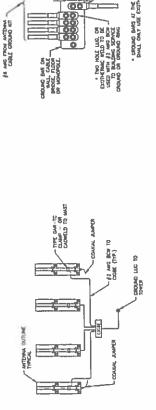
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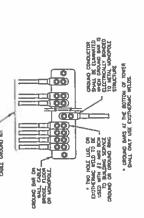
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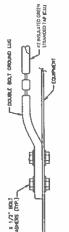
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CONSTRUCTION
DOCUMENTS

NEV DATE DESCRIPTION





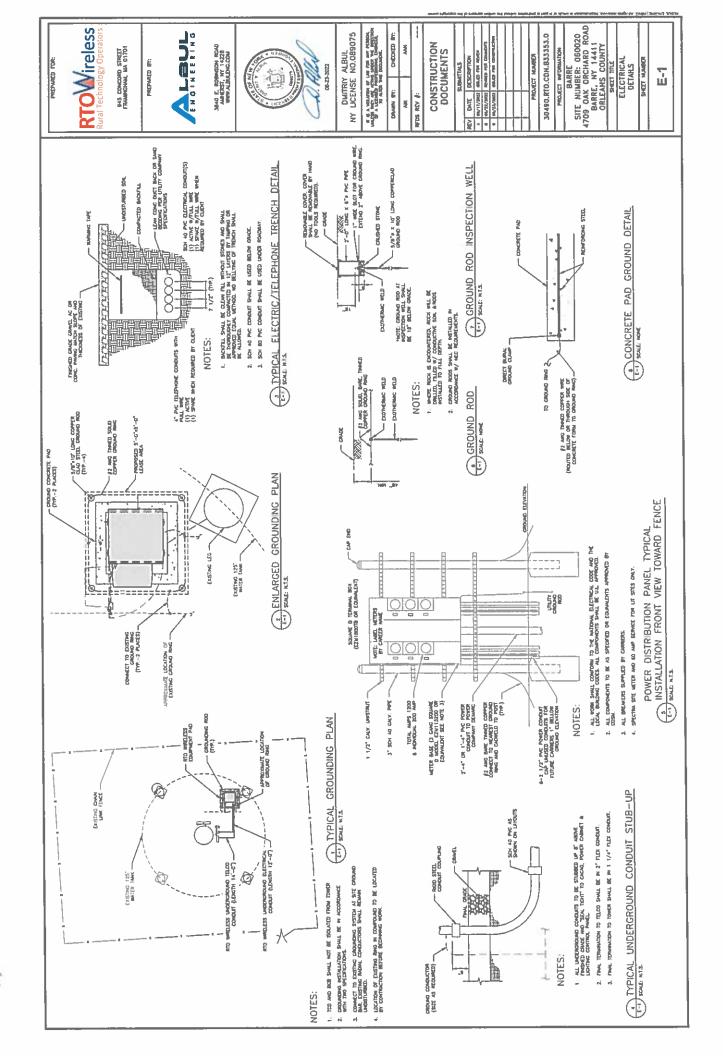


EQUIPMENT GROUNDING DETAIL (6-3) SOME #15

GROUND WIRE INSTALLATION DETAIL

ANTENNA MOUNT GROUND DETAIL

*		



Date: March 16, 2022

David Duplissis RTO Wireless 69 Woodlawn Avenue Auburn, ME 04210 (207) 240-7204



Albul Engineering, LLC 3840 E. Robinson Road Amherst, NY 14228 (716) 800-1364 dalbul@albuleng.com

Subject: Water Tank Structural Analysis Report

RTO Wireless Site Name: Barre Water Tank

Site Number: NY060020

Albul Engineering Project Number: 30490.6324.01.F82300.0

Site Data: 4709 Oak Orchard Road, Barre, NY, Orleans County

Latitude: 43° 11' 06.36", Longitude: -78° 11' 32.32"

125-Foot-Tall Water Tank

Mr. Duplissis.

Per your request, Albul Engineering has performed a structural analysis to evaluate the structural capacity of the existing water tank located at the above referenced address for the addition of wireless telecommunication appurtenances by RTO Wireless. The analysis has been performed in accordance with the 2020 New York State Existing Building Code, TIA-222-H, and AWWA D100-21 standards, and local code requirements based upon an ultimate 3-second gust wind speed of 121 mph.

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA and AWWA code requirements. The water tank is therefore deemed **adequate** to support the proposed loading as listed in this report.

We at Albul Engineering appreciate the opportunity of providing our continuing professional services to RTO Wireless. If you have any questions or need further assistance on this or any other projects, please give us a call.

Sincerely,

Dmitriy Albul, P.E. Director of Engineering



Site Name: Barre Water Tank

APPENDIX A

Albul Engineering Job No: 30490.6324.01.F82300.0





Phone: (716) 800-1364

CONTENTS

1.0	INTRODUCTION
1.1	DOCUMENTS PROVIDED
2.0	PROPOSED EQUIPMENT
3.0	CODES AND LOADING
4.0	STANDARD CONDITIONS FOR ENGINEERING SERVICES ON EXISTING STRUCTURES
5.0	ANALYSIS AND ASSUMPTIONS
6.0	RESULTS AND CONCLUSION

PHOTOS AND CALCULATIONS

Site Name: Barre Water Tank

Albul Engineering Job No: 30490.6324.01.F82300.0

Page 3



Phone: (716) 800-1364

1.0 INTRODUCTION

The existing structure is a 32' diameter by 125' tall elevated water tank supported by four (4) 24" diameter round legs. The tank was designed by Caldwell Tank Inc. in 1993. The proposed antennas will be mounted at 105' centerline above ground level on the pipe mounts attached to the catwalk. The objective of this report is to access the proposed installation of new antennas and RRU units at the proposed antenna mounts attached to the water tank catwalk rails. This report is limited to the water tank analysis only.

1.1 DOCUMENTS PROVIDED

The structural analysis of the site is based on the following documents provided:

- Lease Exhibit by Albul Engineering, LLC, dated March 11, 2022
- Site Visit by Albul Engineering, LLC, dated March 4, 2022
- Construction Drawings by Caldwell Tank Inc., dated May 5, 1993

2.0 PROPOSED EQUIPMENT

The analysis is based on the following appurtenances:

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	-	Panel Antenna w/ Mount Pipe		7/8" Hybriflex
	105.0 1	3	-	RRH		
105.0		1	-	3' Parabolic Dish w/ Mount Pipe	3	
			1	-	1' Parabolic Dish w/ Mount Pipe	

Site Name: Barre Water Tank

Albul Engineering Job No: 30490.6324.01.F82300.0

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Phone: (716) 800-1364

3.0 CODES AND LOADING

The analysis has been performed in accordance with the following codes and loading as adopted in Orleans County, New York:

- 2020 Building Code of New York State
- Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures - ANSI/TIA-222-H
- Welded Carbon Steel Tanks for Water Storage ANSI/AWWA D100-21

Risk Category: IV

3-sec gust Wind Speed: 121 MPH

Exposure Category: CTopographic Category: 1

4.0 STANDARD CONDITIONS FOR ENGINEERING SERVICES ON EXISTING STRUCTURES

The analysis is based on documents listed in Section 1.1. The appurtenance position and condition of the water tank have not been verified and assumed to be correct. Unless otherwise noted, the structure and the foundation system are assumed to be in good condition, free of defects and can achieve theoretical strength.

It is assumed that the structure has been maintained and shall be maintained during its service. The superstructure and the foundation system are assumed to be designed with proper engineering practice and fabricated, constructed and erected in accordance with the design documents. Albul Engineering will accept no liability which may arise due to any existing deficiency in design, material, fabrication, erection, construction, etc. or lack of maintenance. Contractor should inspect the condition of the existing structure, mounts and connections and notify Albul Engineering for any discrepancies and deficiencies before proceeding with the construction.

The analysis results presented in this report are only applicable for the previously mentioned proposed loading. Any deviation of the proposed equipment and placement will require Albul Engineering to generate an additional structural analysis.

5.0 ANALYSIS AND ASSUMPTIONS

The existing water tank was evaluated by method of comparing lateral loads and reaction as allowed by 2020 Existing Building Code of NYS based upon an ultimate 3-second gust wind speed of 121 mph.

Site Name: Barre Water Tank

Albul Engineering Job No: 30490.6324.01.F82300.0

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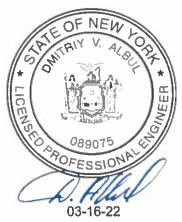
6.0 RESULTS AND CONCLUSION

We have completed the structural analysis of the subject water tank and have found it to be adequate within the scope of this analysis to support the proposed antenna loading. Since the additional projected wind area increases the overturning moment of the water tank by 1.3% and horizontal load by 1.5%, which is less than 10% maximum increase permitted by 2020 Existing Building Code of NYS section 503.3 and 503.4 before a complete structural analysis of the existing facility is required.

Should you have any questions or need any clarifications about this report, please contact Albul Engineering at (716) 800-1364.

Sincerely,

Albul Engineering, LLC



Dmitriy V. Albul, P.E. New York Professional Engineer License No. 089075

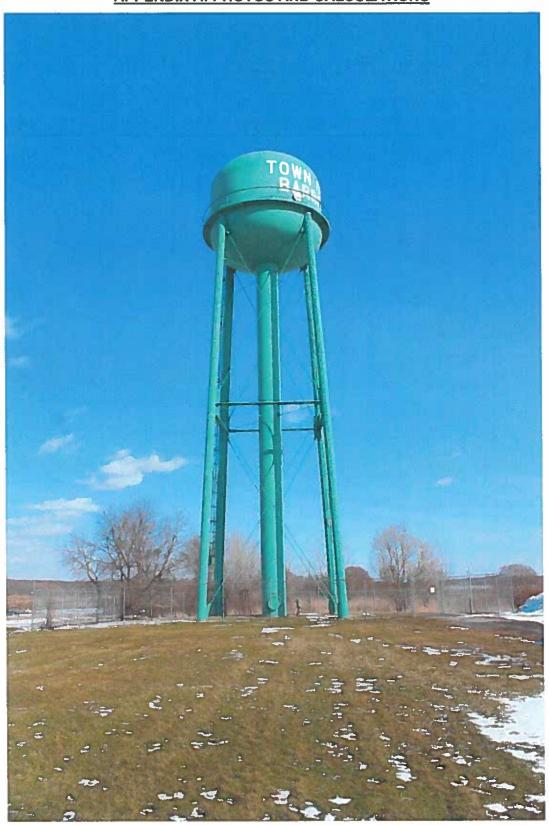
Client: RTO Wireless Site Name: Barre Water Tank

Albul Engineering Job No: 30490.6324.01.F82300.0

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APPENDIX A: PHOTOS AND CALCULATIONS



WATER TANK ELEVATION VIEW

Phone: (716) 800-1364



COMPARISON OF OVERTURNING MOMENTS

Site Name:

Barre Water Tank

Site Number:

NY060020

Job Number:

30490.6324.01.F82300.0

Date:

03/16/22

WT Members	Quantity	Member Area (ft²)	Centerline (ft)	Pw (psf)	Fa (lb)	Moment (lb-ft)
WT Bowl	1	851.0	109.5	33.4	28391.6	3108880.9
Catwalk	1	50.2	105	80.2	4021.3	422237.7
Legs	4	206.0	52.5	41.6	8562.4	1798107.0
Climbing Ladder	1	125.3	59.5	71.1	8909.9	530137.4
Overflow Pipe	1	62.5	62.5	43.1	2694.9	168434.2
Standpipe	1	561.0	46.8	40.6	22755.5	1063818.8
Inner Bracing at 90 ft	4	20.6	90	32.0	660.4	237726.1
Diagonals 54-99 ft	8	8.0	76.5	30.9	247.5	151464.8
Horizontals at 50 ft*	2	23.3	50	68.6	1594.2	159418.9
Diagonals 4-48 ft	8	9.0	26	24.6	221.8	46142.9

^{*} Total of 4 Horizontals, 2 Projected per level

WT Overturning Moment = 7,686,369

	Appurtenance Model/Description	Quantity	Effective Area (ft²)	Centerline (ft)	q _z (psf)	Fa (lb)	Moment (lb-ft)
ľ	Panel Antenna	3	2.72	105.0	39.7	55.2	17378.0
ſ	RRH	3	3.86	105.0	39.7	78.3	24664.6
I	3' Parabolic Dish	1	4.94	105.0	39.7	100.1	10508.0
	1' Parabolic Dish	1	0.85	105.0	39.7	17.3	1817.7
ſ	Mount Pipes 8'	5	1.90	105.0	39.7	38.5	20214.1

Appurtenances Overturning Moment = 74,582 Appurtenance Total Horizontal Load = 710

Feedline Model/Description	Quantity Exposed to Wind	Width (in)	Height (ft)	q _z (psf)	Fa (lb)	Moment (lb-ft)
(3) 7/8" Hybriflex	3	1.09	105.0	34.3	452.4	23752.0

Feedlines Overturning Moment = 23,752 Feedlines Horizontal Load = 452

WT Overturning Moment = 7,686,369 lb-ft
Overturning Moment Due to Appurtenances & Feedlines = 98,334 lb-ft

Overturning Moment Percentage Increase = 1.3%

Additional Horizontal Load = 1,163 lb WT Horizontal Load = 78,060 lb

Horizontal Load Percentage Increase = 1.5%

Overturning Moment and Horizontal Load Percentage Increase does NOT exceed allowable 10% and therefore complete structural analysis not required