

Town of South Bristol 6500 West Gannett Hill Road Naples, NY 14512-9216 585.374.6341

Planning Board Meeting Agenda

Wednesday, August 17, 2022 at 6:30 pm

Meeting in-person or by joining Zoom

https://us02web.zoom.us/j/89008823220?pwd=Sm1qZF1IR294TSt2ZjU2TmZsWmc2Zz09 Meeting ID 890 0882 3220, Password 858138

Call to Order

Pledge of Allegiance

Reading of Vision Statement

As stewards of both the land and the lake, we will preserve and protect our safe, clean, naturally beautiful, rural and scenic environment with thoughtfully planned residential, agricultural, recreational and commercial development.

Meeting Etiquette

Minutes Approval of July 20, 2022 Planning Board Meeting Minutes

Short-Term Rental Old Business

Public Hearings

Short-Term Rental Application 2022-0019 Owner: Soja Income Trust Local Contact: Raymond Soja Property: 17 Cliffside Dr Tax Map #: 168.16-1-6.017 Zoned: PD (Planned Development) Sleeping Occupancy: 4 Parking Spaces: 1

Short-Term Rental New Business

<u>Short-Term Rental Application 2022-0021</u> Owner: Alex Bolton & Marie Lopez (Bolton) Local Contact: Alex & Marie Bolton Property: 6979 St Rt 21 Tax Map #: 191.17-1-17.000 Zoned: LR (Lake Residential) Sleeping Occupancy: 8 Parking Spaces: 4 Short-Term Rental Application 2022-0022

Owner: Michael Gerald Musselman & Nancy Lee Musselman Local Contact: Michael & Nancy Musselman Property: 11 Pinewood Ln Tax Map #: 183.36-1-2.200 Zoned: R5 (Residential 5 Acre) Sleeping Occupancy: 6 Parking Spaces: 2

Short-Term Rental Application 2022-0023

Owner: Emilu Holdings LLC Local Contact: Denise Borgeest Property: 6009 St Rt 21 Tax Map #: 178.00-1-62.210 Zoned: R3 (Residential 3 Acre) Sleeping Occupancy: 6 Parking Spaces: 6

Regular Old Business Public Hearings

Site Plan Approval Application 2022-0018 Owner: Om P. Sud & Pamela A. Nichols Representative: Venezia & Associates Property: 5844 Seneca Point Rd Tax Map #: 178.11-1-7.211 Zoned: LR (Lake Residential)

Site Plan Approval Application 2022-0020

Owner: SBA Towers LLC Representative: GPD Group Representing DRW NX Property: 5776 Stid Hill Rd Tax Map #: 177.00-1-7.200 Zoned: R-5 (Residential 5 Acre)

Short Term Rental Law Review and Discussion

Town Code Review Update

Other

Motion to Adjourn

Town of South Bristol Planning Board Meeting Minutes Wednesday, August 17, 2022

Present: David Bowen Jill Gordon Jason Inda Michael McCabe (Zoom) Fred McIntyre Sam Seymour Matthew Sousa Kevin Stahl

Guests: Ray & Marcia Soja, Scott Martin, Mike & Nancy Musselman, Joe Koehler, Alex & Marie Bolton, Mitch Makowski, Om Sud, Denise Borgeest, Anthony Venezia (Zoom), Justin Butterfield (Zoom)

Call to Order

The meeting of the Town of South Bristol Planning Board was called to order at 6:30 pm. All Board members were present.

Reading of Vision Statement

Frederick McIntyre read the Comprehensive Plan Vision Statement.

Meeting Etiquette

Chairman Sousa reviewed the meeting etiquette.

Minutes

Sam Seymour moved to approve the July 20, 2022 meeting minutes as amended. David Bowen seconded the motion. The motion was unanimously adopted by all Board members present.

Short-Term Rental Old Business

Short-Term Rental Application 2022-0019 Owner: Soja Income Trust Local Contact: Raymond Soja Property: 17 Cliffside Dr Tax Map #: 168.16-1-6.017 Zoned: PD (Planned Development) Sleeping Occupancy: 4 Parking Spaces: 1

Legal Notice of Public Hearing

Please take notice that the Town of South Bristol Planning Board will hold a public hearing on the following short-term rental applications where owners are seeking a short-term rental operating permit: 2022-0019, Soja Income Trust, 17 Cliffside Drive, tax map #168.16-1-6.017.

Said hearing will take place on the 17th day of August, 2022 beginning at 6:30 pm at the South Bristol Town Hall, 6500 West Gannett Hill Road, Naples, NY 14512.

All interested parties may provide written comments, appear in person or by representative.

Diane Scholtz Graham, Board Assistant

Raymond Soja: My name is Ray Soja. I represent the property I own at 17 Cliffside Drive in Bristol Harbour. I am applying for a rental application that I had rented for sixteen years prior to COVID. The last two COVID years I did not rent, but I did begin the application process. I have a two bedroom, split level, two and half bath place. I mentioned last time when I was here that I am not aggressively renting. I had previously rented through Bristol Harbour and through Sue Ryan, Holiday Rentals. I am just renting to people who I have rented to in the past. That is about it. One of the people called me past week to rent. Their bed and breakfast got cancelled. They asked me if I could do it and I told them I could not because I was applying for a permit still.

Chairman Sousa: Nothing significant has changed with your application since last month?

Raymond Soja: No. Nothing.

Chairman Sousa: Great. Diane we have received no written comments related to this application?

Diane Graham: Correct.

Chairman Sousa: Are there any comments or questions from anybody in person or on Zoom relative to this application? Hearing none. Are there any questions or comments from the board? Just to clarify for the record for this specific meeting. I remember last month you said you rented two-three weeks a year, correct? Maybe a little more.

Raymond Soja: In the past I had rented maybe six weeks a year, but I have not rented six weeks in the past four years.

Chairman Sousa: Very sporadic. That is good to know. No questions or comments from the board? I do not have any questions.

Matthew Sousa moved that based on a review of short-term rental permit application 2022-0019 and the testimony presented at the Planning Board meeting on July 20, 2022 and public hearing on August 17, 2022, the Planning Board hereby approves the granting of a short-term rental operating permit to the owner. Jill Gordon seconded the motion.

<u>Roll Call Vote:</u> David Bowen – Aye Jill Gordon – Aye Michael McCabe – Aye Sam Seymour – Aye Matthew Sousa – Aye Kevin Stahl – Aye Fred McIntyre – Aye Motion carried.

Chairman Sousa declared the short-term rental public hearing closed.

Chairman Sousa: Do you advertise online or anything?

Raymond Soja: No.

Chairman Sousa: If that changes and you decide to, please send the address to Diane.

Raymond Soja: Yes.

Chairman Sousa: Excellent. Thank you.

Short-Term Rental New Business

Short-Term Rental Application 2022-0021

Owner: Alex Bolton & Marie Lopez (Bolton) Local Contact: Alex & Marie Bolton Property: 6979 St Rt 21 Tax Map #: 191.17-1-17.000 Zoned: LR (Lake Residential) Sleeping Occupancy: 8 Parking Spaces: 4

Chairman Sousa: Please introduce yourselves and your application for the board.

Marie Bolton: Yes. Marie Bolton.

Alex Bolton: Alex Bolton.

Marie Bolton: Short-term rental 6979 St Rt 21. It is a four bedroom, two full bathroom home. Sleeping occupancy eight and parking spaces four. We would like the approval so we rent it out on a short-term basis.

Chairman Sousa: Do you have experience with short-term rentals?

Marie Bolton: Yes. We have owned several properties in Bristol Harbour in the past. I used to own my own property management company primarily focused on features of homes. We also have a vacation home in Watkins Glen that we rent out, but that one is managed through Finger Lakes Premier Properties.

Chairman Sousa: So you will be managing this one specifically just directly?

Marie Bolton: Yes because it is close to home.

Chairman Sousa: That was my next question. You are the local point of contact and not coming from very far?

Marie Bolton: No. Right in Victor.

Chairman Sousa: Excellent. Are there any other questions or comments from the board?

Jill Gordon: Yes. The fire marshal says that home does not meet today's standards for alternate means of egress. Is that those small windows in the bedrooms?

Marie Bolton: Yes. So those two new windows that were purchased will be installed on Monday.

Jill Gordon: Those will be a correct size?

Marie Bolton: Really nice. Very nice and big. Yes. I was able to find a new contractor that was able to move up the date because originally they were saying 16-18 weeks. I was like no.

Jill Gordon: Very good.

Chairman Sousa: Great. Thank you. I would like confirmation before we give you final approval that those were installed and everything. I do not know how you want to handle it. They could take a picture of it and send it you or if you want to do a specific site visit to make sure to verify they are installed and we are good to go. That will have to happen prior to final approval.

Marie Bolton: Perfect. Sounds like a plan.

Chairman Sousa: Any more questions or comments?

Sam Seymour: I have a question about the parking spots. The septic leach field drawing shows the driveway to the garage where you have two spots drawn then a retaining wall and sidewalk going up to the house and the hedge along St Rt 21. In that area the parking drawing shows two spots.

Marie Bolton: Yes. I have a really nice photo that spells it out a lot better. The driveway space has been improved since that original drawing, which I think we whited it out and redrew it. I do not know what version you have.

Chairman Sousa: We have both. One that shows four spots and the retaining wall that moved perpendicular to the driveway and two spots maybe 45 degrees.

Marie Bolton: Yes. There is more parking in the garage and then you have at minimum four parking spots in front of the garage and off to the side, which is nice because you can technically turn your car around and pull out onto 21. So it is much safer than our earlier drawings. That improvement took place in the spring.

Chairman Sousa: That is maybe something else on your follow-up site visit you can verify if you any concerns. We do have a drawing depicting the cars. It looks like that third car might be a little tight. It is hand drawn.

Marie Bolton: Yes. It fits three nice.

Chairman Sousa: You said you have very nice photos of it. It would be great to provide those for the follow-up meeting as well so the board can actually review that.

Diane Graham: So, you want it before?

Chairman Sousa: Yes. Absolutely.

Marie Bolton: Perfect.

David Bowen: Is the one to the north is that for parking parallel to the wall?

Marie Bolton: Sorry?

David Bowen: The parking to the north is that designed so that you park parallel to the retaining wall or does it just look like that in the drawing?

Marie Bolton: You can park parallel, or you can park head on. Either way works. I like parking more on an angle so I can pull onto the road face forward. Much safer.

Chairman Sousa: Great. Are there any more questions or comments?

Sam Seymour: Yes. In some of the views it looks like there is a right-of-way across the front of the house to the neighbors house. Is that the neighbors driveway that goes in?

Marie Bolton: Isn't that the underground easement for RG&E?

Alex Bolton: Are you talking about along the lakeside?

Sam Seymour: Yes. Between the house and the lake.

Alex Bolton: That is the emergency vehicle easement for us, the Widmer's and Barker's on the other side. It is only for us three on the cove there.

Sam Seymour: It is just an easement not a driveway?

Marie Bolton: Correct. There is grass growing. You really do not know it is there.

Alex Bolton: It is an easement for emergency vehicles if we need to get down there.

Chairman Sousa: I do not have any more questions or comments. Does anybody else from the board? Hearing none.

Matthew Sousa moved that the Planning Board accept the short-term rental permit application 2022-0021 as complete pending the receipt of the updated photos showing the driveway and home inspection from our CEO to make sure those windows were properly installed for emergency egress and ingress. As long as you get those things to use prior to our next meeting we will set the application for final review/public hearing on September 21, 2022. Jill Gordon seconded the motion.

All in favor.

Ayes 7, D. Bowen, J. Gordon, J. Inda, M. McCabe, S. Seymour, M. Sousa, K. Stahl Nays 0

Motion carried.

Alex Bolton & Marie Bolton: Thank you.

Short-Term Rental Application 2022-0022

Owner: Michael Gerald Musselman & Nancy Lee Musselman Local Contact: Michael & Nancy Musselman Property: 11 Pinewood Ln Tax Map #: 183.36-1-2.200 Zoned: R5 (Residential 5 Acre) Sleeping Occupancy: 6 Parking Spaces: 2

Chairman Sousa: Please introduce yourselves and your application.

Michael Musselman: I am Mike Musselman.

Nancy Musselman: Nancy Musselman.

Michael Musselman: We are applying for a short-term rental permit for 11 Pinewood. Our property is a townhome occupancy six. We are at the Hidden Hollow Townhome Community in South Bristol. We have two parking spaces, and we are applying for a short-term rental permit. Nancy and I reside our home is in Farmington. We absolutely love this area down here and come upon this opportunity earlier this year. As part of our experience down here we are trying to build a great rental property and keep it for ourselves, but also for others to enjoy. Not only our place, but the Naples and South Bristol area as well.

Chairman Sousa: Do you have experience with short-term rentals?

Michael Musselman: We do not. This is our first rental property that we have owned. I would like to state that I am a facilities manager at a place called Lollipop Farms, so I am familiar with building issues, mechanicals and things of that nature.

Nancy Musselman: I work in real estate so I am pretty familiar with all the ins and outs. I have some women on my team who own a couple short-term rental properties. I have been learning the ropes from them as well.

Michael Musselman: We intend to be the property managers and the emergency contact for the property.

Chairman Sousa: You said you have two parking spaces and then there is overflow space at the community center, I believe?

Diane Graham: No. This is on County Road 34.

Nancy Musselman: This is on West Hollow Road. Not part of the Bristol Harbour.

Chairman Sousa: Oh right. You are across the street.

Diane Graham: It is townhomes.

Chairman Sousa: Yes. I am orienting myself now.

Michael Musselman: Our bylaws stipulate that the parking spaces for each unit are in front. There are two that are assigned to each unit, but there is overflow and extra parking in designated areas.

Chairman Sousa: Okay. You have how many bedrooms?

Michael Musselman: Three bedrooms.

Chairman Sousa: Three bedrooms okay. Six renters and potentially up to three vehicles. Are there any questions or comments from the board.

Jill Gordon: I have a question. Do you know if any of the other units in your building have upgraded to three bedrooms as well? I know you are reaching the limit of the septic system there.

Nancy Musselman: In building two where we are, we are the only unit that has the third bedroom.

Jill Gordon: Thank you.

Nancy Musselman: Your welcome.

Sam Seymour: Which building is number two?

Michael Musselman: Building one is one closest to West Hollow Road. Two is in the middle and three would be the furthest from the road.

Sam Seymour: Okay.

Chairman Sousa: Any more questions or comments? Hearing none.

Matthew Sousa moved that the Planning Board accept the short-term rental permit application 2022-0022 as complete and set the application for final review/public hearing on September 21, 2022. David Bowen seconded the motion.

All in favor.

Ayes 7, D. Bowen, J. Gordon, J. Inda, M. McCabe, S. Seymour, M. Sousa, K. Stahl Nays 0

Motion carried.

Chairman Sousa: We will see you next month.

Nancy Musselman: Thanks for your time.

Short-Term Rental Application 2022-0023

Owner: Emilu Holdings LLC Local Contact: Denise Borgeest Property: 6009 St Rt 21 Tax Map #: 178.00-1-62.210 Zoned: R3 (Residential 3 Acre) Sleeping Occupancy: 6 Parking Spaces: 6

Chairman Sousa: Please introduce yourself and your application.

Denise Borgeest: Hi there. My name is Denise Borgeest. I am the representative for Emily Holdings.

Chairman Sousa: Please give a quick overview of your application and your property.

Denise Borgeest: Where it is?

Chairman Sousa: How many nights you are planning on renting, occupancy, etc.

Denise Borgeest: This year I think we are over the season. Actually, our house was owned by The Elys. Jim Ely. We bought the house last year and we would like to rent it out. This year the season is kind of over and we do not have a permit. So next year we are thinking that perhaps we would like to rent it. So, we are going through the process now to be prepared.

Chairman Sousa: You are showing parking for six spaces. I guess you have room to turnaround on your property as well.

Denise Borgeest: Yes. There is a turnaround that holds and then there is parking down by the garage. We have quite a long driveway down from the main road.

Chairman Sousa: You are only going to rent seasonally, correct? Just during the summer months typically?

Denise Borgeest: I think so. Yes.

Diane Graham: Do you want to talk about the bedrooms?

Denise Borgeest: What do you want me to say?

Diane Graham: How many bedrooms do you have and how many are you renting?

Denise Borgeest: Oh okay. Technically it is a four-bedroom house. Right now, we are not renting, but if we were renting it, it would be a three-bedroom because of the holding tank. We are in touch with Shannon Mittermeier and he is going to put a new tank in shortly that would be a large enough tank

qualified as a four-bedroom. Somebody told me that the tank was not big enough, so we are going to put a larger tank in. Right now, we would say it is a three-bedroom rental. When we go larger with the tank certainly by next year the tank will be done. Like I said, we are probably not renting it this year because it already the end of August.

Chairman Sousa: I guess procedurally assuming we approve it, it will be based on the existing conditions.

Diane Graham: Then she will send out the operating permit to the neighbors. Then if she upgrades with the code enforcement then we can update.

Chairman Sousa: You can amend her permit?

Diane Graham: Yes.

Chairman Sousa: Okay. That will be the procedure. It is the first time we will have encountered that after approval. If you upgrade your septic to accommodate the four-bedroom size, then you will provide evidence. You will verify and we will amend your permit to allow for an eight-person occupancy four-bedroom home.

Denise Borgeest: It might even be done this month.

Chairman Sousa: If you get it done before next month, then

Denise Borgeest: It is all about his schedule.

Chairman Sousa: Of course. Then hopefully weather. It has been rather dry. Are there any more questions or comments?

Jill Gordon: I have one comment. Your driveway was hard to find coming up from the south. The mailbox is not numbered on that side. Maybe get one of those green house number signs right near the road. Especially because you have the guiderail at the end of your driveway.

Denise Borgeest: Okay.

Chairman Sousa: That is a great comment.

Denise Borgeest: I have talked about doing that actually.

Chairman Sousa: That is something we would like to remind anybody if you a wooded driveway or something like that. Clearly marked homes we have had some issues in the past with people out of the area not familiar with it and go to the wrong house knocking on the door. Nobody wants that. You want to be a good neighbor.

Denise Borgeest: Have the house number marked better?

Jill Gordon: Right at the end of the driveway.

Denise Borgeest: Yes. No problem.

Chairman Sousa: Do you have experience with short-term rentals before? Did I ask that?

Denise Borgeest: We have a house on Seneca Point Road. A while ago we used to rent out. So yes, we do have experience.

Chairman Sousa: Are you to local point of contact, correct?

Denise Borgeest: Yes.

Chairman Sousa: Those are good questions, Jill. Thank you. Any more comments or questions?

Sam Seymour: It is a nice house. It was designed by Bill Chapin who is a local resident years ago.

Denise Borgeest: We are friends with Mickie and Jim so it's kind of fun. Mickie has been up there to see it. They are nice people.

Sam Seymour: Oh nice.

Denise Borgeest: She is still walking at Bopple.

Sam Seymour: Yes. She does the long block there.

Chairman Sousa: I do not have any questions or comments. Assuming there are none with the board.

Matthew Sousa moved that the Planning Board accept the short-term rental permit application 2022-0023 as complete and set the application for final review/public hearing on September 21, 2022. Kevin Stahl seconded the motion.

All in favor.

Ayes 7, D. Bowen, J. Gordon, J. Inda, M. McCabe, S. Seymour, M. Sousa, K. Stahl Nays 0

Motion carried.

Regular Old Business

Site Plan Approval Application 2022-0018

Owner: Om P. Sud & Pamela A. Nichols Representative: Venezia & Associates Property: 5844 Seneca Point Rd Tax Map #: 178.11-1-7.211 Zoned: LR (Lake Residential)

Legal Notice of Public Hearing

Please take notice that the Town of South Bristol Planning Board will hold a public hearing on the following applications:

2022-0018 for property owned by Om P. Sud and Pamela A. Nichols located at 5844 Seneca Point Road, tax map #178.11-1-7.211. The applicant/property owners are looking for site plan approval to add a 600 square foot permanent dock and boat hoist to a 386 square foot existing dock and an 8 foot by 15 foot boat accessory structure.

Said hearing will take place on the 17th day of August, 2022 beginning at 6:30 pm at the South Bristol Town Hall, 6500 West Gannett Hill Road, Naples, NY 14512. All interested parties may provide written comments, appear in person or by representative.

Diane Scholtz Graham, Board Assistant

Chairman Sousa: Could you briefly discuss the project and any changes since you made from our preliminary hearing in June?

Om Sud: I provided the documents you are looking for.

Chairman Sousa: Yes. The archaeological site determination letter and the dock waiver has been recorded, which we did receive those. You did have an amended site plan, correct?

Diane Graham: Yes. We had an original and something was changed and the dock was moved over a little bit.

Chairman Sousa: Right. Is that to align with the mean high-water line?

Diane Graham: I do not know the reasoning. I do not know if Scott does.

Scott Martin: I do not know why. They moved it to the south a couple of feet.

Chairman Sousa: Right. It is not substantial.

Diane Graham: The one I had given you for the last meeting was the older version and it was pointed out so I scanned the newer version in to the meeting folder. There was an appendage taken away and it was moved to the south.

Chairman Sousa: Right. I do not think it represents that significant of a difference. Does anybody have any questions related to that amendment?

Diane Graham: I am sorry I did not share the screen. May I try it?

Chairman Sousa: Yes. Please. Just to make sure that Mike can see it.

Diane Graham: Sorry Mike.

Michael McCabe: I have a copies of it up on my own computer.

Diane Graham: Okay. I want to try this. I have not done it in a while.

Michael McCabe: Okay.

Diane Graham: This is the correct one. I can point to what we saw. Right in this area there was something off here and this whole thing shifted down.

Anthony Venezia: This is Anthony Venezia. What the change was is we narrowed the dock main platform from eight to six feet. Then we shifted it, so the main walkway was more in line with the northeast side of the dock. So, a little bit of a cleaner access to the dock. That was the change.

Chairman Sousa: Okay. So, it actually got smaller in total square feet?

Anthony Venezia: Yes. It went from an eight-foot-wide walkway to a six-foot-wide walkway. That gave us the opportunity to shift it south a little bit. It did not come off the corner. It came off the end.

Chairman Sousa: Okay. Right, that makes sense to me. This did not need county approval, septic approval, storm water. There is no endangered species. We received your archeological site determination letter. Does anybody from the public wish to speak on this application either in person or on Zoom? Did we receive any written comments?

Diane Graham: No.

Chairman Sousa: Did you open the public hearing for the tower too?

Diane Graham: No. So, you can close this one.

Chairman Sousa: Any comments or questions? I am going to declare the public hearing closed. This is a SEQR Type II action with little or no impact.

Matthew Sousa moved that this is a Type II action under SEQR requiring little or no impact. Kevin Stahl seconded the motion.

All in favor.

Ayes 7, D. Bowen, J. Gordon, J. Inda, M. McCabe, S. Seymour, M. Sousa, K. Stahl Nays 0

Motion carried.

Chairman Sousa read the findings:

- 1. The proposed project is consistent with the comprehensive plan.
- 2. The proposed project is consistent with the zoning district in which the project is located.
- 3. The proposed project will not have an adverse impact on the physical or environmental conditions of the district.
- 4. The proposed project will not adversely affect the character of the neighborhood.

5. The proposed project complies with the Docking and Mooring Law.

David Bowen moved to approve findings 1-5. Jill Gordon seconded the motion.

All in favor.

Ayes 7, D. Bowen, J. Gordon, J. Inda, M. McCabe, S. Seymour, M. Sousa, K. Stahl Nays 0

Motion carried.

Matthew Sousa made a motion to approve the amended site plan approval application. David Bowen seconded the motion.

<u>Roll Call Vote:</u> David Bowen – Aye Jill Gordon – Aye Jason Inda – Aye Michael McCabe – Aye Sam Seymour – Aye Matthew Sousa – Aye Kevin Stahl – Aye

Motion carried.

Chairman Sousa: Reminder - the site plan approval expires in six months so you will need to start construction on the dock within six months of this approval or you will have to come back to apply for an extension.

Om Sud: Hopefully they are doing this fall.

Chairman Sousa: Excellent. I imagine there will be no issues, but we had some people who did not realize that, and they did not start work for whatever reason and they had to come back. Just a reminder. Thank you for that, Diane.

Diane Graham: You are welcome.

Chairman Sousa: You are all set. Thank you.

Om Sud: Thank you.

Anthony Venezia: Thank you.

Site Plan Approval Application 2022-0020

Owner: SBA Towers LLC Representative: GPD Group Representing DRW NX Property: 5776 Stid Hill Rd Tax Map #: 177.00-1-7.200 Zoned: R-5 (Residential 5 Acre)

Legal Notice of Public Hearing

Please take notice that the Town of South Bristol Planning Board will hold a public hearing on the following application:

2022-0020 for property owned by SBA Towers LLC located at 5776 Stid Hill Road, tax map #177.00-1-7.200. The owner and applicant DRW NX LLC are looking for site plan approval for antenna tower to install a new equipment cabinet within 6 foot by 10 foot lease area within the tower compound and 100A electrical service and install new (2) 6 foot MW dishes, (4) SAF radios, associated cabling and associated mounting equipment.

Said hearing will take place on the 17th day of August, 2022 beginning at 6:30 pm at the South Bristol Town Hall, 6500 West Gannett Hill Road, Naples, NY 14512.

All interested parties may provide written comments, appear in person or by representative.

Diane Scholtz Graham, Board Assistant

Chairman Sousa: Do we have a representative for SBA on the line?

Diane Graham: We have Justin representative for DRW. He is from GPD Group.

Chairman Sousa: Okay. Justin, please give an overview of the application.

Diane Graham: I am going to screen share.

Chairman Sousa: Yes. Please.

Justin Butterfield: Sure. No problem. Diane, that you for the summary our client DRW is looking to install: two six-foot microwave dishes on an existing 199-foot telecommunication tower owned by SBA Communications and associated ground equipment with installation as well. That page right there is a fairly good overview of the installation of the tower as well as the ground equipment.

Chairman Sousa: So, you had your FCC license numbers.

Justin Butterfield: Yes. That is correct. Since the last meeting we provided the proof of FCC license for DRW as well as the RF emission study that was requested.

Chairman Sousa: Right, with BNI correct?

Justin Butterfield: Correct.

Chairman Sousa: Diane, we have not received a copy of that?

Diane Graham: We received an online communication. Are you talking about the license or application?

Chairman Sousa: For the license.

Diane Graham: Yes. We received an online communication. It is not an actual license. I do not know when that comes.

Chairman Sousa: Is that something we could be provided a copy of?

Justin Butterfield: I can check with DRW. I believe the FCC document I provided to you Diane is what they provide DRW. I do not know if there is a physical license is provided formally from the FCC, but we could check in with them on that.

Diane Graham: Thank you.

Chairman Sousa: Can you please remind me of the tower height? Because I believe it was amended since the last meeting.

Justin Butterfield: It is currently 199 feet above grade.

Diane Graham: At the last meeting I think the board questioned how it went from 195 to 199 feet. There was an amended special use permit back 1996 to go to 199 feet.

Chairman Sousa: Right.

Diane Graham: Plus, some other information. I did not read that part.

Chairman Sousa: We have your FAA determination letter of no hazard dated April 9, 2010.

Justin Butterfield: Correct.

Chairman Sousa: Are there any questions from the board regarding this application?

David Bowen: Jason, there was a letter we received from the Zoning Board of Appeals dated January 27, 2022 and the board granted a special use permit. They based their findings on a Radio Frequency Exposure Assessment dated July 22, 2022. Is that something that is before us?

Diane Graham: Yes. It is in the meeting folder.

David Bowen: If so, can you explain that to us?

Justin Butterfield: Was that for DRW or for another carrier?

Diane Graham: The RF Exposure Assessment.

Justin Butterfield: Would this be the one, Diane that our team submitted to you?

Diane Graham: I do not remember who submitted it. I thought it was from you.

Justin Butterfield: There was some frequency data on page three of three on the no hazard determination letter.

David Bowen: Is that the Radio Frequency Exposure Assessment.

Justin Butterfield: The determination of no hazard that was requested was completed by SBA back in 2010 and filed with FAA. That is to determine if the height of the structure poses any risk to air traffic and when they filed that they file it with the current frequencies on the structure. When our client DRW filed for their FCC license with this application the FCC would have reviewed those frequencies cleared them and approved the license. That is what took place with this application in our submittal.

The RF Emission Analysis that the team submitted is a public safety analysis. It to ensure that anybody working on the ground level or elevated on the tower would not be exposed to harmful levels of radiation.

David Bowen: Where do we find that in the documentation that we have before us?

Justin Butterfield: So, the RF emission study, which would have been done by Sublight Engineering. The results of that study provided that the equipment meets the FCC regulation limits for exposure. I forget what page exactly it on in that document. There should be a summary or recommendation in that report.

David Bowen: Diane is waiving something over there. I must have missed it. Was it a document you forwarded to us?

Diane Graham: I put it in the folder.

Justin Butterfield: It on page seven of seven in the conclusions of that study. I am sorry for the confusion up front. I think some of the dates you mentioned January this year. It did not seem like it lined up with our application.

David Bowen: Did I say January I thought it was July, sorry.

Justin Butterfield: I may have misheard you here.

David Bowen: Alright. I am seeing that now.

Sam Seymour: Was that posted in the file?

Diane Graham: It should be. You are not seeing it? It will start out with SBA NY 0001A and it will say RF after that. Did you find it. Sorry, Justin we have a lot of documents in that file.

Justin Butterfield: No worries we understand. There was a lot that was submitted.

Chairman Sousa: This was exempt from County Planning Board referral and recommendation. No septic system. As far as construction at the base of the tower, was there a concrete pad or something going on the bottom or is it microwave dishes?

Diane Graham: There is a six by ten.

Justin Butterfield: It is a platform.

Chairman Sousa: I know that it is a minimal impervious surface, but there is no concern with storm water erosion associated with that platform installation at the base of the tower.

Justin Butterfield: There would be no net increase. It is within the developed compound.

Chairman Sousa: Okay. Did we receive any written comments associated with this application, Diane.

Diane Graham: No.

Chairman Sousa: Is there anyone from the public who wishes to speak regarding this application? Okay. Yes. Please come up and introduce yourself.

Mitch Makowski: My name is Mitch Makowski. I live practically at the base of that tower. My property is at 5774 Stid Hill. In fact, I surround the property. They use my driveway to access the tower. My concerns and reasons for being here today are I have some questions. You brought up the RF. I do not know if there is going to be any impact to me being so close to the tower with these microwaves. Are they going to affect my cell phone all of a sudden or my internet connection or something like that. Is there any adverse impact for that? I do not know if anybody has any information on that.

Diane Graham: Justin, can you answer that?

Justin Butterfield: Part of the FCC license registration is looking at those frequencies and interference with other communication frequencies in the area and approval of that. FCC would evaluate it. Any overlap or interference. In addition, this communication system isn't cellular it is point to point. It is used for their data network internal communications. So, it is not broadcasting down. It is pointing to another link in another tower 20-30 miles away from the cell site. The RF emission study was completed, normally not completed for an application like this just due to the nature of the frequency. It is pretty minimal, but we did it out of one of the requirements of this application with South Bristol to provide that RF study that was done by an RF engineer to check on the emissions and ensure anybody at ground level at the base or even if they were working on the structure that it would meet FCC working limits for RF exposure. This has been vetted with the FCC and with this RF emission study.

Mitch Makowski: Do you know if they are going to need to bring a crane up there to install this equipment?

Justin Butterfield: I don't. We did not dictate the means of construction. They may rig off the tower or they may bring a crane if there is room to get one in. I am not sure what their construction team will do.

Mitch Makowski: My concern is the last time they had to do something they brough a crane up there and the crane did substantial damage to the driveway that still has not been fixed. Now you need to bring at least a concrete truck up there to pour a pad. I am worried about that doing even more damage to the driveway. Are you guys prepared to fix that when you are done?

Justin Butterfield: I would recommend SBA Communications who is not on this call. They lease the driveway off of you or have that easement. That might be a conversation for them to discuss the maintenance of that. You may already have in your agreement if you do have a lease with them or they have a lease with you, I am sorry to discuss that. I am not sure the use of that driveway should be within SBA agreement with the landowner there to be able to access the cell site to complete maintenance or future installations.

David Bowen: They have an easement over your driveway I assume?

Mitch Makowski: They do yes.

David Bowen: Does it specify about repairs and maintenance?

Mitch Makowski: It is very vague. The language is extremely vague for all of that.

Diane Graham: Justin, will you provide the contact person for this so I can give it to the landowner?

Justin Butterfield: Yes. We could forward that along for sure.

Diane Graham: Thank you.

Mitch Makowski: One last question. Do you know if it will require raising the height of that at all or putting any kind of lighting on the tower?

Justin Butterfield: No. It will not. The tower will remain its current height and no lighting will be on the structure.

Chairman Sousa: They have a waiver from the FAA and do not meet the requirements for tower lighting due to the nature of the location and not the amount of air traffic that would warrant that. They are not increasing two microwave hubs that they are placing on the tower. Correct me if I am wrong Justin, but about halfway up, if not, slightly more.

Justin Butterfield: Yes. One hundred twenty-five feet above ground level. It is about two-thirds the way up.

Chairman Sousa: They are being placed about two-thirds the way up and not increasing the overall height of the tower.

Mitch Makowski: Okay. That was it. Those were my concerns.

Chairman Sousa: Thank you.

Mitch Makowski: Thank you.

Chairman Sousa: Is there anyone else who wishes to speak regarding this application either in-person or on Zoom?

Diane Graham: If you want the site plan, you can take that with you.

Chairman Sousa: Hearing no further public comments. I declare the public hearing closed.

For SEQR purposes it was determined by the Zoning Board of Appeals that for paragraph 617.5 (c)(9) for six by ten cabinet is a Type II action and requires no further review. The towers additions are an unlisted action.

Matthew Sousa moved to concur the findings of the Zoning Board of Appeals. David Bowen seconded the motion.

All in favor.

Ayes 7, D. Bowen, J. Gordon, M. McCabe, F. McIntyre, S. Seymour, M. Sousa, K. Stahl Nays 0

Motion carried.

Chairman Sousa read the findings:

- 1. The proposed project is consistent with the comprehensive plan.
- 2. The proposed project is consistent with the zoning district in which the project is located.
- 3. The proposed project will not have an adverse impact on the physical or environmental conditions of the district.
- 4. The proposed project will not adversely affect the character of the neighborhood.

Kevin Stahl moved to approve findings 1-4. Sam Seymour seconded the motion.

All in favor.

Ayes 7, D. Bowen, J. Gordon, M. McCabe, F. McIntyre, S. Seymour, M. Sousa, K. Stahl Nays 0

Motion carried.

Chairman Sousa: The Zoning Board of Appeals approved the special use permit conditioned upon receiving FCC license before construction begins. With that condition in mind:

Matthew Sousa made a motion to approve the site plan approval application conditioned upon receiving the FCC license before construction. David Bowen seconded the motion.

<u>Roll Call Vote:</u> David Bowen – Aye Jill Gordon – Aye Michael McCabe – Aye Sam Seymour – Aye Matthew Sousa – Aye Kevin Stahl – Aye Fred McIntyre – Aye

Motion carried.

Chairman Sousa: A reminder that the site plan approval expires in six months. If you do not begin construction within the six-month period, you will have to come back in to apply for an extension.

Justin Butterfield: Understood. Thank you.

Chairman Sousa: Thank you.

Other

Town Code Review Update

- Reviewing the short-term rental law to compare with other laws
- Serving the special event venue law
- Clarifying language associated with multi-family housing and inconsistency with allowable lot size
- Reviewing minimum square footage for a single-family residence
- Maybe definition for tiny homes
- Introduce battery energy storage model law and model wind law
- Reviewing solar farm maximum allowable acreage
- Creating a reference use table

Town Board Requested Review of Special Event Venues Proposed Local Law

- Change local law title to Special Events Venues
- Section 1.:
 - Add "commercial"
 - Add "whereas the holding of events is the primary use of the property."
- Section 3.A.1.:
 - Add "contiguous"
- Section 3.A.9.:
 - Omit "For the purposes of this section, "termination" shall mean the termination of food, drinks, service and entertainment, with the understanding that attendees and servers will need a reasonable amount of time after termination to exit the premises."
 - Add "All events must conform to all provisions contained in the noise ordinance for the Town of South Bristol."
- Section 3.E.:
 - Add "Any person who violates or causes to be violated any provision of this chapter shall be guilty of a violation and shall be punishable as outlined in 170-97."
- Review Mendon's event management plan and breakout a bulleted list of what is required to add to Section 3.A. between 9. and 10.
- Amend short-term rental law to prohibit events, allowable number of guests
- Accessory use definition subject to the special events venue regulation

<u>Clarification</u> Planning Board, Zoning Board of Appeals and Code Enforcement Officer Roles.

Motion to Adjourn

Being no further business, Matthew Sousa moved to adjourn the meeting. Jill Gordon seconded the motion. The motion was unanimously adopted and the meeting was adjourned at 8:16 pm.

Respectfully submitted,

Diane S. Graham

Diane Scholtz Graham Board Assistant

Appendix Application 2022-0020 SBA Towers LLC FCC Registration Antenna Tower Structural Analysis Report Radio Frequency Exposure Assessment DRW NX LLC Application for FCC License Zoning Board of Appeals Amended Special Use Permit 09.03.1996 FAA Determination DRW FCC License Communication Zoning Board of Appeals Special Use Permit



UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION ANTENNA STRUCTURE REGISTRATION



OWNER: SBA TOWERS, INC.

FCC Registration Number (FRN): 0005793260

ATTN: EDWARD G. ROACH SBA TOWERS, INC. 5900 BROKEN SOUND PARKWAY NW BOCA RATON, FL 33487	Antenna Structure Registration Number	10509	34	
		Issue Date	04-27-	-2010
Location of Antenna Structure 5776 Stid Hill Road (NY00011-A)		Ground Elevation (AMSL)	618.4	meters
Naples, NY		Overall Height Above Ground (AGL) 60.7	meters
Latitude Longitude 42-44-30.1 N 077-23-16.3 W	NAD83	Overall Height Above Mean Sea	679.1	(AMSL) meters
Painting and Lighting Requirements: NONE Conditions:				

This registration is effective upon completion of the described antenna structure and notification to the Commission. YOU MUST NOTIFY THE COMMISSION WITHIN 24 HOURS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854. To file electronically, connect to the antenna structure registration system by pointing your web browser to http://wireless.fcc.gov/antenna. Electronic filing is recommended. You may also file manually by submitting a paper copy of FCC Form 854. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and *display* your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules. 13

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Tower Engineering Solutions Phone (972) 483-0607, Fax (972) 975-9615 1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 199 ft Nudd Corporation Guyed Tower Customer Name: SBA Communications Corp Customer Site Number: NY00011-A Customer Site Name: South Bristol Carrier Name: DRW Canada Co. (App#: 133031-4) Carrier Site ID / Name: US.NY.SBA.NY00011-A / South Bristol Site Location: 5776 Stid Hill Road Naples, New York Ontario County Latitude: 42.741683 Longitude: -77.387861



Analysis Result:

Max Structural Usage: 100.7% [Pass] Max Foundation Usage: 65.1% [Pass] Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Mohammed Al Rubaye

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Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615 1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

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<u>Analysis Result:</u> Max Structural Usage: 100.7% [Pass] Max Foundation Usage: 65.1% [Pass] Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Mohammed Al Rubaye

Introduction

The purpose of this report is to summarize the analysis results on the 199 ft Nudd Corporation Guyed Tower to support the proposed antennas and transmission lines in addition to those currently installed.

The pending modification by **TES** listed under Sources of Information was also considered completed and was included in this analysis.

|--|

Tower Drawings	Nudd Corporation, Project #6246 dated October 7, 1998
	FDH, Inc., Job #06-0247T dated February 29, 2006
Foundation Drawing	FDH Engineering, Inc., Mapping Project #06-0153N dated February 24, 2006
Geotechnical Report	FDH Engineering, Inc., Project #1421951600 dated January 21, 2014
Modification Drawings	FDH Engineering, Inc., Project #06-0153E dated March 17, 2006
	FDH Engineering, Inc., Project #09-08155E S2 dated October 28, 2010
	FDH Engineering, Inc., Project #146D131400 dated September 19, 2014
Pending Modification	TES Pending Job # 114359. Dated 03/03/2022

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. In accordance with this standard, the structure was analyzed using **TESTowers**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	110.0 mph (3-Sec. Gust) (Ultimate wind speed)
Basic Wind Speed with Ice:	40 mph (3-Sec. Gust) with 1"1/2 radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2018 IBC / 2020 Building Code of New York
	State
Exposure Category:	В
Structure Class:	II
Topographic Category:	3
Crest Height:	849 ft
Seismic Parameters:	SS = 0.15, S1 = 0.047

This structural analysis is based upon the tower being classified as Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	6		JMA Wireless MX10FIT865- Panel			
2		3	Samsung MT6407-77A-Panel			
3		3	Commscope TD-850B-10LTE78- Diplexer	(2) Conton Enomon		
4	195.0	3	Samsung B2/B66A RRH-BR049 (RFV01U- D1A)-RRU	Armor Tower 8' HD-	(6) 1 5/8 (2) 1 5/8"	Verizon
5		3	Samsung B5/B13 RRF-BRO4C (RFV01U- D2A)-RRU	Brackets	нурпа	
6		1	Samsung CBRS RRH-RT 440-48A-RRU			
7		1	Raycap RxxDC-3315-PF-48-OVP			
9		6	Andrew - SBJAH4-1D65C-DL - Panel			
10		3	Andrew - SBNH-1D6565C - Panel			
11		3	Andrew - E15Z01P13 - TMA/TTA			
12		6	KMW KDXCV0012017 Diplexer -		(12) 1 5/8"	
13	186.0	3	Ericsson 8843 B2/B66A RRU -	(3) 12' T-Frame	(6) 3/4" DC	AT&T
14		3	Ericsson RRUS-11 Band 12 -	(3) SitePro STK-U Stiff	(2) 7/16" Fiber	
15		3	Ericsson RRUS-4415 B30 RRU -	Arm Kits		
16		3	Ericsson RRUS-4478 B5 RRU -			
17		3	Raycap DC6-48-60-18-8F COVP -			
18	185.5	1	Decibel - DB408 - Whip		(1) 7/8"	26.36
19	180.0	1	Cushcraft - PR450 CU - Dish	Pipe	(1) 7/8"	Pfeiffer
20		3	Andrew HBXX-6517DS-A2M - Panel			
21		3	RFS APXVAARR24_43-U-NA20 - Panel			
22		3	Ericsson AIR6449 B41 - Panel	(0) = 5	(4) 1 5/8" Fiber	
23	167.0	3	Ericsson 4449 B71 + B85 - RRU	(3) I-Frame	(1) 1/2"	T-Mobile
24		3	Ericsson 4415 B66A - RRU	(Valmont VFA10-0)		
25		3	Ericsson RRUS 4424 B25 - RRU			
26		1	GPS - Whip			
27		3	Commscope - TTTT65AP-1XR - Panel			
28		3	Commscope - NNVV-65B-R4 - Panel			
29		3	Samsung - RRH-P4 – RRU			
30	160.0	3	Samsung - RRH-B8 – RRU	(3) 12' T-Frame (Mod)	(3) 1.76" Fiber	Sprint
31		3	Samsung - RRH-C4 - RRU	(3) Sitepro SPTB		Nextel
32		3	Samsung EP96-04223A			
33		3	Samsung EP96-04225A			
34	159.0	2	Decibel - DB420	(3) 18' T-Frames	(1) 7/8"	Pfeiffer
36	102.0	1	Andrew P4-57W- Dish	Mounting Bracket	(1) 5/8"	Verizon
37	102.0	-	-	(1) 18" Standoff	(1) 7/8	-
38	92.0	1	Cushcraft - PR450 CU - Dish	(1) 2' Standoff	(1) 7/8"	
39	75.5	1	Cushcraft - PR450 CU - Dish	Pipe	(1) 7/8"	Pfeiffer
40	40 64.5 1		Cushcraft - PR450 CU - Dish	Pipe	(1) 7/8"	

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
35		2	Commscope USX6-6W - Dish	(2) Commissions	(6) 1/2"	
36	125.0 4 SAF		SAF SAF ODU	PM-SC4-96	(6) 1/4" Cat6 (6) 1/4" Copper	Canada Co.

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

Tower Component	Legs	Diagonals	Horizontals	Guy Wires
Max. Usage:	100.7%	94.3%	58.3%	92.2%
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Base R	eactions	Inner Anchors		
Reactions (kips)	Axial	Shear	Uplift	Shear	
Analysis Reactions	186.8	1.5	66.0	50.8	

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.1362 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the structure and its foundation will be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the design TIA-222-H Standard after the following pending modification is successfully completed.

- Pending modification design drawing by **TES** Job # 114359

Standard Conditions

- 1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC.** Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
- 2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
- 3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
- 4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
- 5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
- 6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Structure: NY00011-A-SBA

Site Name:	South Bristol			Code: TIA-222-H		4/26/2022	(((H)))
Туре:	Guyed	Base Shape:	Triangle	Basic WS:	110.00		
Height:	199.00 (ft)	Base Width:	0.00	Basic Ice WS:	40.00		
Base Elev:	0.00 (ft)	Top Width:	2.50	Operational WS:	60.00	Page: 1	Tower Engineering Solutions



Structure: NY00011-A-SBA

Site Name:	South Bristol			Code: TIA-222-H		4/26/2022	(((H)))
Туре:	Guyed	Base Shape:	Triangle	Basic WS:	110.00		
Height:	199.00 (ft)	Base Width:	0.00	Basic Ice WS:	40.00		
Base Elev:	0.00 (ft)	Top Width:	2.50	Operational WS:	60.00	Page: 2	Tower Engineering Solutions

Г					
_	64.50	64.50	1	PK450 CU	
	04.50	04.50	4		
	75.50	75.50	1	PR450 CU	
	75.50	75.50	1	Pipe Mount	
	92.00	92.00	1	PR450 CU	
	02.00	02.00	4		
	92.00	92.00	1	Standoff	
	102.00	102.00	1	Pipe Mount	
	102.00	102.00	1	P4-57W w/ Radome	
	102.00	102.00			
	102 00	102 00	1	Empty Standoff	
	125.00	125.00	4	SAF SAF ODU	

	Linear Appurtenances						
Elev	Elev						
From (ft)	To (ft)	Qty	Description				
0.00	195.00	6	1 5/8" Coax				
0.00	195.00	2	1 5/8" Hybrid				
0.00	186.00	4	1 5/8" Coax				
0.00	186.00	6	1 5/8" Coax				
0.00	186.00	2	1 5/8" Coax				
0.00	186.00	6	3/4" DC				
0.00	186.00	2	7/16" Fiber				
0.00	185.50	1	7/8" Coax				
0.00	180.00	1	7/8" Coax				
0.00	167.00	4	1 5/8" Fiber				
0.00	167.00	1	1/2" Coax				
0.00	160.00	3	1.76" Fiber				
0.00	159.00	1	7/8" Coax				
0.00	125.00	6	1/2" Coax				
0.00	125.00	6	1/4" Cat6				
0.00	125.00	6	1/4" Copper				
0.00	102.00	1	5/8" Coax				
0.00	102.00	1	7/8" Coax				
0.00	92.00	1	7/8" Coax				
0.00	75.50	1	7/8" Coax				
0.00	64.50	1	7/8" Coax				
0.00	64.50	1	W/G Ladder				
			Max Guy Wire				

92.21% @ 146.7854 ft - 7/16 EHS

Structure: NY00011-A-SBA											
Site Name: Type: Height: Base Elev:	South Bristol Guyed 199.00 (ft) 0.00 (ft)	Base Shape: Base Width: Top Width:	Triangle 0.00 2.50	Code: TIA-222-H Basic WS: Basic Ice WS: Operational WS:	110.00 40.00 60.00	4/26/2022 Page: 3	(((H))) ES Tower Engineering Solutions				



Anchor Drops with Guy Radius - Structure: NY00011-A-SBA											
Site Name:	South Bristol			Code: EIA_H	440.00	4/26/2022	(((#)))				
Туре:	Guyed	Base Shape:	Triangle	Basic WS:	110.00						
Height:	199.00 (ft)	Base Width:	0.00	Basic Ice WS:	40.00						
Base Elev:	0.00 (ft)	Top Width:	2.50	Operational WS:	60.00	Page: 4	Tower Engineering Solutions				




			Loa	ding Summa	ry		
Structure:	NY00011-A-SBA	<u>ــــــــــــــــــــــــــــــــــــ</u>		Code:	TIA-222-H	4/26/2022	4
Site Name:	South Bristol			Exposure:	В		de ute sob
Height:	199.00 (ft)			Crest Height:	849.00		EC
Base Elev:	0.000 (ft)			Site Class:	D - Stiff Soil		
Gh:	0.85	Topography:	3	Struct Class:	II	Page: 6	Tower Engineering Solutions
Discrete A	ppurtenances	Properties					

Ice

No Ice

Attach Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	Weight (Ib)	CaAa (sf)	Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
199.00	Lightning Rod	1	5.00	0.500	29.11	2.509	72.000	1.000	1.000	1.00	1.00	0.000
195.00	TD-850B-10LTE78	3	52.91	1.840	125.46	2.869	15.800	14.000	6.000	0.80	0.67	0.000
195.00	B2/B66A RRH-BR049	3	84.40	1.870	175.82	2.540	15.000	15.000	10.000	0.80	0.67	0.000
195.00	B5/B13 RRF-BRO4C (RFV01U-D2A)	3	84.40	1.870	175.82	2.540	15.000	15.000	10.000	0.80	0.67	0.000
195.00	CBRS RRH-RT 440-48A	1	18.60	0.990	50.49	1.475	13.900	8.600	4.200	0.80	0.67	0.000
195.00	RxxDC-3315-PF-48	1	32.00	4.060	160.60	5.006	29.500	16.500	12.600	0.80	1.00	0.000
195.00	MX10FIT865-xx	6	59.00	11.610	426.31	13.517	95.900	12.200	10.700	0.80	0.95	0.000
195.00	Armor Tower 8' HD-UPNY	3	626.00	17.200	1330.42	42.084	0.000	0.000	0.000	0.75	0.75	0.000
195.00	MT6407-77A	3	79.40	4.690	221.46	5.788	35.100	16.100	5.500	0.80	0.70	0.000
186.00	Ericsson RRUS-11 Band 12	3	50.00	2.520	131.29	3.247	17.800	17.300	7.200	0.80	0.50	0.000
186.00	Raycap DC6-48-60-18-8F COVP	3	32.80	0.920	105.96	1.423	24.000	11.000	18.500	0.80	0.50	0.000
186.00	12' T-Frame [411C-9R60/STK-U]	3	450.00	17.500	1170.83	33.478	0.000	0.000	0.000	0.75	0.75	0.000
186.00	Ericsson RRUS-4478 B5 RRU	3	59.50	1.840	115.21	2.469	18.100	13.400	8.260	0.80	0.50	0.000
186.00	KMW KDXCV0012017 Diplexer	6	6.60	0.410	19.29	0.955	7.480	5.700	2.890	0.80	0.50	0.000
186.00	SBNH-1D6565C	3	60.80	11.470	303.40	15.200	96.400	11.900	7.100	0.80	0.80	0.000
186.00	E15Z01P13	3	24.00	0.910	56.75	1.735	13.600	7.200	5.500	0.80	0.50	0.000
186.00	SBJAH4-1D65C-DL	6	71.00	11.860	423.19	14.749	96.000	13.800	8.200	0.80	0.77	0.000
186.00	Ericsson 8843 B2/B66A RRU	3	72.00	1.640	125.75	2.210	14.900	13.200	10.900	0.80	0.50	0.000
186.00	Ericsson RRUS-4415 B30 RRU	3	47.40	1.640	95.99	2.231	16.530	13.460	6.290	0.80	0.50	0.000
185.50	DB408	1	17.00	2.900	159.61	13.505	112.800	0.000	0.000	1.00	1.00	4.700
180.00	5' x 1" Pipe Mount	1	40.00	1.000	71.83	1.796	0.000	0.000	0.000	1.00	1.00	0.000
180.00	PR450 CU	1	119.00	10.850	397.53	12.680	0.000	0.000	0.000	1.00	1.00	0.000
167.00	Valmont VFA10-U T-Frame	3	285.00	12.500	738.61	23.840	0.000	0.000	0.000	0.75	0.75	0.000
167.00	GPS	1	10.00	1.000	43.42	1.812	12.000	9.000	6.000	1.00	1.00	0.000
167.00	HBXX-6517DS-A2M	3	40.80	8.550	241.72	11.877	74.900	12.000	6.500	0.80	0.77	3.121
167.00	APXVAARR24_43-U-NA20	3	128.00	20.240	612.96	22.418	95.900	24.000	7.800	0.80	0.70	3.996
167.00	AIR6449 B41	3	103.00	5.650	259.31	6.734	33.100	20.500	8.300	0.80	0.71	1.379
167.00	4449 B71 + B85	3	73.20	1.970	139.03	2.619	17.900	13.200	10.600	0.80	0.67	0.746
167.00	Radio 4415 B66A	3	46.20	1.860	119.18	2.498	16.500	13.400	6.200	0.80	0.67	0.000
167.00	RRUS 4424 B25	3	88.00	1.840	169.87	2.465	16.500	13.500	9.600	0.80	0.67	0.000
160.00	12' T-Frame (Mod)	3	330.00	18.400	621.29	28.841	0.000	0.000	0.000	0.75	0.75	0.000
160.00	TTTT65AP-1XR	3	33.00	6.990	216.43	8.334	63.300	12.000	4.600	0.80	0.76	0.000
160.00	NNVV-65B-R4	3	84.70	12.270	437.49	13.914	72.000	19.600	7.800	0.80	0.74	0.000
160.00	RRH-B8	3	59.70	2.670	137.80	3.406	21.200	15.000	8.000	0.80	0.57	0.000
160.00	RRH-C4	3	48.50	1.180	199.33	2.061	15.000	12.500	7.600	0.80	0.57	0.000
160.00	Samsung EP96-04223A - JB	3	3.30	0.160	25.72	0.718	11.000	3.900	3.100	0.80	0.57	0.000
160.00	Samsung EP96-04225A - JB	3	2.00	0.160	25.12	0.744	11.500	3.900	3.100	0.80	0.57	0.000
160.00	RRH-P4	3	62.70	2.740	146.71	3.517	23.800	13.800	9.000	0.80	0.57	0.000
159.00	18' T-Frame	3	309.90	14.500	583.45	22.728	0.000	0.000	0.000	0.75	0.75	0.000
159.00	DB420	2	31.50	4.130	175.46	15.506	212.000	0.000	0.000	1.00	1.00	8.833
125.00	Pipe Mount	1	30.00	2.100	53.29	3.730	0.000	0.000	0.000	1.00	1.00	0.000
125.00	PM-SC4-96	2	67.90	2.600	120.61	4.618	0.000	0.000	0.000	1.00	1.00	0.000
125.00	Commscope USX6-6W	2	359.00	40.270	1249.17	44.397	76.500	76.500	60.800	1.00	1.00	0.000
125.00	SAF SAF ODU	4	7.70	1.220	35.55	2.104	11.200	11.200	3.100	1.00	0.50	0.000
102.00	Empty Standoff	1	23.00	2.000	40.68	3.537	0.000	0.000	0.000	1.00	1.00	0.000
102.00	P4-57W w/ Radome	1	149.00	11.350	517.16	13.156	49.100	49.100	11.000	1.00	1.00	0.000
102.00	Pipe Mount	1	30.00	2.100	53.06	3.714	0.000	0.000	0.000	1.00	1.00	0.000
92.00	Standoff	1	23.00	2.000	40.38	3.511	0.000	0.000	0.000	1.00	1.00	0.000

			L	.oading	j Summa	iry							
Structure:	NY00011-A-SBA			Cod	de:	TIA-2	22-H		4/26/2	2022	4		
Site Name:	South Bristol		Exposure: B										
Height:	199.00 (ft)			Cre	st Height:	849.0	00					C	
Base Elev:	0.000 (ft)			Site	e Class:	D - S	tiff Soil					\mathbf{S}	
Gh:	0.85	Topogra	phy: 3	Str	uct Class:	П			Pag	e: 7	Tower Engineer	ing Solutions	
92.00 PR450	CU	1	119.00	10.850	383.46	12.588	0.000	0.000	0.000	1.00	1.00	0.000	
75.50 Pipe Mo	ount	1	30.00	2.100	52.10	3.647	0.000	0.000	0.000	1.00	1.00	0.000	
75.50 PR450 (CU	1	119.00	10.850	376.80	12.544	0.000	0.000	0.000	1.00	1.00	0.000	
64.50 PR450 (CU	1	119.00	10.850	376.80	12.544	0.000	0.000	0.000	1.00	1.00	0.000	
	Totals:	131	12,915.63		37,676.21				Number	of App	ourtenances	: 52	

			Loa	ding Summa	ry		
Structure:	NY00011-A-SBA			Code:	TIA-222-H	4/26/2022	44.000.50
Site Name:	South Bristol			Exposure:	В		((H)))
Height:	199.00 (ft)			Crest Height:	849.00		LC
Base Elev:	0.000 (ft)			Site Class:	D - Stiff Soil		
Gh:	0.85	Topography:	3	Struct Class:	П	Page: 8	Tower Engineering Solutions

Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (Ib/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	195.00	1 5/8" Coax	6	1.98	1.04	75.00	1	Block		Ν	0.50	1.00	
0.00	195.00	1 5/8" Hybrid	2	2.00	1.10	100.00	1	Individual NR		Ν	1.00	1.00	
0.00	186.00	1 5/8" Coax	4	1.98	1.04	50.00	3	Block		Ν	0.50	1.00	
0.00	186.00	1 5/8" Coax	6	1.98	1.04	33.30	3	Block		Ν	0.40	1.00	
0.00	186.00	1 5/8" Coax	2	1.98	1.04	50.00	3	Block		Ν	1.00	1.00	
0.00	186.00	3/4" DC	6	0.75	0.40	50.00	3	Block		Ν	1.00	1.00	
0.00	186.00	7/16" Fiber	2	0.44	0.05	50.00	3	Block		Ν	1.00	1.00	
0.00	185.50	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		Ν	1.00	1.00	
0.00	180.00	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		Ν	1.00	1.00	
0.00	167.00	1 5/8" Fiber	4	2.00	1.10	50.00	1	Block		Ν	0.40	1.00	
0.00	167.00	1/2" Coax	1	0.65	0.16	100.00	1	Individual NR		Ν	1.00	1.00	
0.00	160.00	1.76" Fiber	3	1.76	0.50	50.00	2	Block		Ν	1.00	1.00	
0.00	159.00	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		Ν	1.00	1.00	
0.00	125.00	1/2" Coax	6	0.65	0.16	50.00	1	Block		Ν	1.00	1.00	
0.00	125.00	1/4" Cat6	6	0.25	0.04	50.00	1	Block		Ν	1.00	1.00	
0.00	125.00	1/4" Copper	6	0.25	0.04	50.00	1	Block		Ν	1.00	1.00	
0.00	102.00	5/8" Coax	1	0.87	0.15	100.00	2	Individual NR		Ν	1.00	1.00	
0.00	102.00	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		Ν	1.00	1.00	
0.00	92.00	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		Ν	1.00	1.00	
0.00	75.50	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		Ν	1.00	1.00	
0.00	64.50	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		Ν	1.00	1.00	
0.00	64.50	W/G Ladder	1	3.00	6.00	100.00	3	Individual NR		Ν	1.00	1.00	

								ę	Sec	tion	Force	S						
Stru	cture:	NY	00011	1-A-SBA	۰				(Code:		TIA	-222-H		4/20	6/2022		
Site	Name	: So	uth Br	istol					F	Expos	ure:	В				VA	(((#)))	
Heic	tht:	19	9 00 (f	ft)					(Crest	Height	· 849	00		-	1	 T	Dr
Poo.	e Elov	- 0 C	000 (ff)	۰ <i>γ</i>						Sito C	lace	л о ю.	Stiff Sc	.iI	-			1.5
Dase	9 Elev	: 0.0	00 (ii)	1	_			-			1855.	U	500 50	11	4		Tower Engi	neering Solutions
Gh:		0.8	5		Торо	grapr	ıy:	3		Struct	Class	: II			۲	'age: 9	Tower Dig.	Rennig Solutions
Load	d Case): 1.2	2D + 1	i.0W Nc	ormal W	ind							1.2D ·	+ 1.0W [·]	110 mph	Wind a	t Normal	To Face
		Wind [/]	Load F	actor:	1.00										Wind Ir	mportan	ce Factor:	1.00
		Dead	Load F:	actor:	1.20											•		
	Ice	Dead	Load F	actor:	0.00										Ice Ir	nportanc	ce Factor:	1.00
Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	lce Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (Ib)	Weight Ice (Ib)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	0.5	25 79	2 337	<u> </u>	0.00	1.00	2 10	1 00	1.00	0.00	2 34	5 17	0.00	375.3	0.0	107 58	0.00	89.30
2	11.0	25.66	1.962	2 7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	100.82	0.00	1.801.5	0.0	377.48	1738.10	2,115.58
3	31.0	25.69	1.962	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	100.82	0.00	1,801.5	0.0	377.94	1740.23	2,118.16
4	43.9	28.21	0.736	2.27	0.00	0.20	2.60	1.00	1.00	0.00	2.05	28.83	0.00	524.4	0.0	127.96	546.46	674.42
5	53.9	29.79	3.377	5.68	0.00	0.24	2.47	1.00	1.00	0.00	6.72	71.98	0.00	1,424.5	0.0	419.98	1440.39	1,860.37
6	68.1	31.66	3.555	5.68	0.00	0.24	2.45	1.00	1.00	0.00	6.90	68.29	0.00	1,349.6	0.0	455.98	1424.68	1,880.66
7	78.1	32.78	0.490	2.27	0.00	0.18	2.66	1.00	1.00	0.00	1.80	26.37	0.00	462.9	0.0	133.25	566.39	699.64
8	91.0	34.06	1.962	. 7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	91.28	0.00	1,626.9	0.0	500.95	2038.47	2,539.42
9	111.0	35.75	4.878	7.94	0.00	0.24	2.46	1.00	1.00	0.00	9.56	87.13	0.00	1,805.7	0.0	714.84	2048.88	2,763.72
10	125.3	36.79	3.271	2.50	0.00	0.25	2.42	1.00	1.00	0.00	4.74	34.64	0.00	986.9	0.0	359.02	842.81	1,201.83
11	135.3	37.46	0.981	4.54	0.00	0.18	2.66	1.00	1.00	0.00	3.60	43.13	0.00	888.5	0.0	304.70	1074.09	1,378.79
12	151.0	38.41	2.029	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.63	74.84	0.00	1,568.8	0.0	570.01	1912.63	2,482.63
13	1/1.0	39.49	1.962	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	58.83	0.00	1,442.2	0.0	580.91	1548.49	2,129.40
14	186.0	40.22	1.237	9.02	0.00	0.39	2.08	1.00	1.00	0.00	7.09	20.21	0.00	817.7	0.0	504.98	526.27	1,031.25
15	195.0	40.63	0.000	3.51	0.00	0.17	2.71	1.00	1.00	0.00	2.03	5.29	0.00	304.5	0.0	190.40	131.63	322.09
														17,180.8	0.0)		23,287.26
Load	d Case	e: 1.2	2D + 1	1.0W 60	° Wind								1.2D	+ 1.0W	110 mph	Wind a	at 60° Fr	om Face
		Wind	Load F	actor:	1.00										Wind Ir	mportane	ce Factor:	1.00
	Dead Load Factor: 1.20														lee le		oo Footori	1 00

	Ice	Dead	Load Fa	actor:	0.00										Ice Ir	nportanc	e Factor:	1.00
Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	lce Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (Ib)	Weight Ice (Ib)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	0.5	25.79	2.337	0.00	0.00	1.00	2.10	0.80	1.00	0.00	1.87	5.17	0.00	375.3	0.0	86.06	0.00	86.06
2	11.0	25.66	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	100.82	0.00	1,801.5	0.0	354.89	1738.10	2,092.99
3	31.0	25.69	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	100.82	0.00	1,801.5	0.0	355.32	1740.23	2,095.54
4	43.9	28.21	0.736	2.27	0.00	0.20	2.60	0.80	1.00	0.00	1.90	28.83	0.00	524.4	0.0	118.78	546.46	665.24
5	53.9	29.79	3.377	5.68	0.00	0.24	2.47	0.80	1.00	0.00	6.04	71.98	0.00	1,424.5	0.0	377.76	1440.39	1,818.15
6	68.1	31.66	3.555	5.68	0.00	0.24	2.45	0.80	1.00	0.00	6.19	68.29	0.00	1,349.6	0.0	409.01	1424.68	1,833.69
7	78.1	32.78	0.490	2.27	0.00	0.18	2.66	0.80	1.00	0.00	1.70	26.37	0.00	462.9	0.0	125.99	566.39	692.38
8	91.0	34.06	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	91.28	0.00	1,626.9	0.0	470.97	2038.47	2,509.44
9	111.0	35.75	4.878	7.94	0.00	0.24	2.46	0.80	1.00	0.00	8.58	87.13	0.00	1,805.7	0.0	641.88	2048.88	2,690.76
10	125.3	36.79	3.271	2.50	0.00	0.25	2.42	0.80	1.00	0.00	4.08	34.64	0.00	986.9	0.0	309.43	842.81	1,152.24
11	135.3	37.46	0.981	4.54	0.00	0.18	2.66	0.80	1.00	0.00	3.41	43.13	0.00	888.5	0.0	288.12	1074.09	1,362.20
12	151.0	38.41	2.029	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.22	74.84	0.00	1,568.8	0.0	535.09	1912.63	2,447.72
13	171.0	39.49	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	58.83	0.00	1,442.2	0.0	546.15	1548.49	2,094.64
14	186.0	40.22	1.237	9.02	0.00	0.39	2.08	0.80	1.00	0.00	6.84	20.21	0.00	817.7	0.0	487.37	526.27	1,013.64
15	195.0	40.63	0.000	3.51	0.00	0.17	2.71	0.80	1.00	0.00	2.03	5.29	0.00	304.5	0.0	190.46	131.63	322.09
														17,180.8	0.0)		22,876.78

								Ş	Sect	ion l	Force	S						
Stru	cture:	NY	00011	-A-SBA	\				C	ode:		TIA-	-222-H		4/2	6/2022		
Site	Name	: So	uth Bri	istol					E	xpos	ure:	В				VA	(((井))	1
Heir	1ht.	190	9 00 (f	' †)					c	rest	Height	· 849	00			- -		
Dee		0.0	0.00 (i	.,					с С		laaa	. 070	.00 Ctiff Ca	.:1				
Bas	e Elev	0.0			_	_		_	3		lass:	U	500 50	011	Z		Tower Engi	ineering Solutions
Gh:		0.8	5		Торо	graph	<u>וע:</u>	3	S	struct	Class	:			Pa	ige: 10	Tower Eng	neering solutions
Load	d Case	: 1.2	2D + 1	.0W 90	° Wind								1.2D	+ 1.0W	110 mph	Wind	at 90° Fi	rom Face
		Wind	Load Fa	actor:	1.00										Wind Ir	nportan	ce Factor:	1.00
		Dead	Load Fa	actor:	1.20													
	lce	Dead	Load Fa	actor:	0.00										Ice Ir	nportan	ce Factor:	1.00
			Total	Total	Ice								Ice					
Seat	Wind	~ -	Flat	Round	Round	Sel				Ice Thick	Eff	Linear	· Linear	Total	Waight	Struct	Linear	Total
Sect	ft)	qz (psf)	(sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	lce (lb)	(lb)	(lb)	(lb)
1	0.5	25.79	2.337	0.00	0.00	1.00	2.10	0.85	1.00	0.00	1.99	5.17	0.00	375.3	0.0	91.44	0.00	91.44
2	11.0	25.66	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	100.82	0.00	1,801.5	0.0	360.53	1738.10	2,098.64
3	31.0	25.69	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	100.82	0.00	1,801.5	0.0	360.97	1740.23	2,101.20
4	43.9	28.21	0.736	2.27	0.00	0.20	2.60	0.85	1.00	0.00	1.94	28.83	0.00	524.4	0.0	121.07	546.46	667.54
5	53.9	29.79	3.377	5.68	0.00	0.24	2.47	0.85	1.00	0.00	6.21	71.98	0.00	1,424.5	0.0	388.31	1440.39	1,828.70
6	68.1	31.66	3.555	5.68	0.00	0.24	2.45	0.85	1.00	0.00	6.37	68.29	0.00	1,349.6	0.0	420.75	1424.68	1,845.43
7	78.1	32.78	0.490	2.27	0.00	0.18	2.66	0.85	1.00	0.00	1.73	26.37	0.00	462.9	0.0	127.81	566.39	694.19
8	91.0	34.06	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	91.28	0.00	1,626.9	0.0	478.46	2038.47	2,516.94
9	111.0	35.75	4.878	7.94	0.00	0.24	2.46	0.85	1.00	0.00	8.83	87.13	0.00	1,805.7	0.0	660.12	2048.88	2,709.00
10	125.3	36.79	3.271	2.50	0.00	0.25	2.42	0.85	1.00	0.00	4.24	34.64	0.00	986.9	0.0	321.82	842.81	1,164.64
11	135.3	37.46	0.981	4.54	0.00	0.18	2.66	0.85	1.00	0.00	3.46	43.13	0.00	888.5	0.0	292.26	1074.09	1,366.35
12	151.0	38.41	2.029	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.32	74.84	0.00	1,568.8	0.0	543.82	1912.63	2,456.45
13	171.0	39.49	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	58.83	0.00	1,442.2	0.0	554.84	1548.49	2,103.33
14	186.0	40.22	1.237	9.02	0.00	0.39	2.08	0.85	1.00	0.00	6.91	20.21	0.00	817.7	0.0	491.77	526.27	1,018.04
15	195.0	40.63	0.000	3.51	0.00	0.17	2.71	0.85	1.00	0.00	2.03	5.29	0.00	304.5	0.0	_ 190.46	131.63	322.09
														17,180.8	0.0)		22,983.97
			1 + 1										0.00	+ 1 0\\/	110 mph	Wind a	t Norma	

Loa	d Case	: 0.9	9D + 1	.0W No	ormal W	/ind							0.9D ·	+ 1.0W	110 mph	Wind a	t Norma	l To Face
		Wind	Load Fa	actor:	1.00										Wind I	nportan	ce Factor:	1.00
		Dead	Load Fa	actor:	0.90													
	lce	Dead	Load Fa	actor:	0.00										Ice li	mportan	ce Factor:	1.00
			Total	Total	Ice								lce					
0	Wind		Flat	Round	Round	0				Ice	Eff	Linear	Linear	Total	14/-:	Struct	Linear	Total
Sect	Height	qz (nsf)	Area	Area	Area	S0I Patio	Cf	Df	Dr	(in)	Area	Area	Area	(lb)	weight	Force	Force	Force
Jeq	(11)	(psi)	(sqit)	(sqit)	(Syll)	Natio				(11)	(sqit)	(sqii)	(sqit)	(ui)		(iii)	(ui)	(u)
1	0.5	25.79	2.337	0.00	0.00	1.00	2.10	1.00	1.00	0.00	2.34	5.17	0.00	281.5	0.0	107.58	0.00	107.58
2	11.0	25.66	1.962	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	100.82	0.00	1,351.1	0.0	377.48	1738.10	2,115.58
3	31.0	25.69	1.962	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	100.82	0.00	1,351.1	0.0	377.94	1740.23	2,118.16
4	43.9	28.21	0.736	2.27	0.00	0.20	2.60	1.00	1.00	0.00	2.05	28.83	0.00	393.3	0.0	127.96	546.46	674.42
5	53.9	29.79	3.377	5.68	0.00	0.24	2.47	1.00	1.00	0.00	6.72	71.98	0.00	1,068.3	0.0	419.98	1440.39	1,860.37
6	68.1	31.66	3.555	5.68	0.00	0.24	2.45	1.00	1.00	0.00	6.90	68.29	0.00	1,012.2	0.0	455.98	1424.68	1,880.66
7	78.1	32.78	0.490	2.27	0.00	0.18	2.66	1.00	1.00	0.00	1.80	26.37	0.00	347.2	0.0	133.25	566.39	699.64
8	91.0	34.06	1.962	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	91.28	0.00	1,220.2	0.0	500.95	2038.47	2,539.42
9	111.0	35.75	4.878	7.94	0.00	0.24	2.46	1.00	1.00	0.00	9.56	87.13	0.00	1,354.3	0.0	714.84	2048.88	2,763.72
10	125.3	36.79	3.271	2.50	0.00	0.25	2.42	1.00	1.00	0.00	4.74	34.64	0.00	740.2	0.0	359.02	842.81	1,201.83
11	135.3	37.46	0.981	4.54	0.00	0.18	2.66	1.00	1.00	0.00	3.60	43.13	0.00	666.4	0.0	304.70	1074.09	1,378.79
12	151.0	38.41	2.029	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.63	74.84	0.00	1,176.6	0.0	570.01	1912.63	2,482.63
13	171.0	39.49	1.962	7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	58.83	0.00	1,081.7	0.0	580.91	1548.49	2,129.40
14	186.0	40.22	1.237	9.02	0.00	0.39	2.08	1.00	1.00	0.00	7.09	20.21	0.00	613.3	0.0	504.98	526.27	1,031.25
15	195.0	40.63	0.000	3.51	0.00	0.17	2.71	1.00	1.00	0.00	2.03	5.29	0.00	228.4	0.0	190.46	131.63	322.09
														12,885.6	0.0	0		23,305.54

								ę	Sect	tion	Force	s						
Stru	cture:	NY	00011	I-A-SBA	١				C	Code:		TIA-	222-H		4/2	6/2022		
Site	Name	: So	uth Br	istol					E	Expos	ure:	В				XA	(((#)))	1
Heid	uht:	19	9 00 (f	it)					C	Crest	Heiaht	849	00				 	DT
Pag			0.00 (ft)	-)					- -		1966.	יסים. יים יי	Stiff Sc	.il				
Das		0.0			-			~			01		Jun Ju	/11	4		Tower Engi	ineering Solutions
Gn:		0.8	5		Горо	grapi	ny:	3	2	struct	Class	: 11			Pa	age: 11		
Loa	d Case	: 0.9	9D + 1	.0W 60	° Wind								0.9D	+ 1.0W	110 mph	Wind a	at 60° Fi	om Face
		Wind	Load F	actor:	1.00										Wind Ir	nnortano	e Factor	· 1.00
		Dead	Load F	actor:	0.90										Wind ii	nportant	,e i actor.	1.00
	Ice	Dead	Load F	actor:	0.00										Ice Ir	nportano	e Factor:	1.00
			Total	Total	Ice								lce					
	Wind		Flat	Round	Round					Ice	Eff	Linear	Linear	Total		Struct	Linear	Total
Sect Seq	Height (ft)	qz (psf)	Area (sqft)	Area (sɑft)	Area (sɑft)	Sol Ratio	Cf	Df	Dr	Thick (in)	Area (sqft)	Area (sɑft)	Area (sqft)	Weight (lb)	Weight Ice (lb)	Force (lb)	Force (lb)	Force (lb)
1	0.5	25.79	2.337	0.00	0.00	1.00	2.10	0.80	1.00	0.00	1.87	5.17	0.00	281.5	0.0	86.06	0.00	86.06
2	11.0	25.66	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	100.82	0.00	1,351.1	0.0	354.89	1738.10	2,092.99
3	31.0	25.69	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	100.82	0.00	1,351.1	0.0	355.32	1740.23	2,095.54
4	43.9	28.21	0.736	2.27	0.00	0.20	2.60	0.80	1.00	0.00	1.90	28.83	0.00	393.3	0.0	118.78	546.46	665.24
5	53.9	29.79	3.377	5.68	0.00	0.24	2.47	0.80	1.00	0.00	6.04	71.98	0.00	1,068.3	0.0	377.76	1440.39	1,818.15
6	68.1	31.66	3.555	5.68	0.00	0.24	2.45	0.80	1.00	0.00	6.19	68.29	0.00	1,012.2	0.0	409.01	1424.68	1,833.69
7	78.1	32.78	0.490	2.27	0.00	0.18	2.66	0.80	1.00	0.00	1.70	26.37	0.00	347.2	0.0	125.99	566.39	692.38
8	91.0	34.06	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	91.28	0.00	1,220.2	0.0	470.97	2038.47	2,509.44
9	111.0	35.75	4.878	7.94	0.00	0.24	2.46	0.80	1.00	0.00	8.58	87.13	0.00	1,354.3	0.0	641.88	2048.88	2,690.76
10	125.3	36.79	3.271	2.50	0.00	0.25	2.42	0.80	1.00	0.00	4.08	34.64	0.00	740.2	0.0	309.43	842.81	1,152.24
11	135.3	37.46	0.981	4.54	0.00	0.18	2.66	0.80	1.00	0.00	3.41	43.13	0.00	666.4	0.0	288.12	1074.09	1,362.20
12	151.0	38.41	2.029	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.22	74.84	0.00	1,176.6	0.0	535.09	1912.63	2,447.72
13	171.0	39.49	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	58.83	0.00	1,081.7	0.0	546.15	1548.49	2,094.64
14	186.0	40.22	1.237	9.02	0.00	0.39	2.08	0.80	1.00	0.00	6.84	20.21	0.00	613.3	0.0	487.37	526.27	1,013.64
15	195.0	40.63	0.000	3.51	0.00	0.17	2.71	0.80	1.00	0.00	2.03	5.29	0.00	228.4	0.0	_ 190.46	131.63	322.09
														12,885.6	0.0)		22,876.78
Loa	d Case	: 0.9	9D + 1	.0W 90	° Wind								0.9D	+ 1.0W	110 mph	Wind a	at 90° Fr	rom Face

		Wind	Load Fa	actor:	1.00										Wind Ir	nportan	ce Factor:	1.00
		Dead	Load Fa	actor:	0.90													
	Ice	Dead	Load Fa	actor:	0.00										Ice Ir	nportan	ce Factor:	1.00
Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	lce Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (Ib)	Weight Ice (Ib)	Struct Force (Ib)	Linear Force (Ib)	Total Force (lb)
1	0.5	25.79	2.337	0.00	0.00	1.00	2.10	0.85	1.00	0.00	1.99	5.17	0.00	281.5	0.0	91.44	0.00	91.44
2	11.0	25.66	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	100.82	0.00	1,351.1	0.0	360.53	1738.10	2,098.64
3	31.0	25.69	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	100.82	0.00	1,351.1	0.0	360.97	1740.23	2,101.20
4	43.9	28.21	0.736	2.27	0.00	0.20	2.60	0.85	1.00	0.00	1.94	28.83	0.00	393.3	0.0	121.07	546.46	667.54
5	53.9	29.79	3.377	5.68	0.00	0.24	2.47	0.85	1.00	0.00	6.21	71.98	0.00	1,068.3	0.0	388.31	1440.39	1,828.70
6	68.1	31.66	3.555	5.68	0.00	0.24	2.45	0.85	1.00	0.00	6.37	68.29	0.00	1,012.2	0.0	420.75	1424.68	1,845.43
7	78.1	32.78	0.490	2.27	0.00	0.18	2.66	0.85	1.00	0.00	1.73	26.37	0.00	347.2	0.0	127.81	566.39	694.19
8	91.0	34.06	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	91.28	0.00	1,220.2	0.0	478.46	2038.47	2,516.94
9	111.0	35.75	4.878	7.94	0.00	0.24	2.46	0.85	1.00	0.00	8.83	87.13	0.00	1,354.3	0.0	660.12	2048.88	2,709.00
10	125.3	36.79	3.271	2.50	0.00	0.25	2.42	0.85	1.00	0.00	4.24	34.64	0.00	740.2	0.0	321.82	842.81	1,164.64
11	135.3	37.46	0.981	4.54	0.00	0.18	2.66	0.85	1.00	0.00	3.46	43.13	0.00	666.4	0.0	292.26	1074.09	1,366.35
12	151.0	38.41	2.029	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.32	74.84	0.00	1,176.6	0.0	543.82	1912.63	2,456.45
13	171.0	39.49	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	58.83	0.00	1,081.7	0.0	554.84	1548.49	2,103.33
14	186.0	40.22	1.237	9.02	0.00	0.39	2.08	0.85	1.00	0.00	6.91	20.21	0.00	613.3	0.0	491.77	526.27	1,018.04
15	195.0	40.63	0.000	3.51	0.00	0.17	2.71	0.85	1.00	0.00	2.03	5.29	0.00	228.4	0.0	190.46	131.63	322.09
														12.885.6	0.0)		22.983.97

								Ę	Sect	tion	Force	es						
Stru	cture:	NY	00011	-A-SBA	١				C	Code:		TIA-	222-H		4/2	6/2022		
Site	Name	: Soi	uth Bri	istol					E	Expos	ure:	В				YA	(((#)))	
Heid	aht.	190	9 00 (f	t)					Ċ	Crest	Height	• 849	00				-	D
Dee	о Г Іони	0.0	00 (ff)	•)							looor				_			
Bas	e Elev:	0.0	- (II)		_	-		_			1455.	D-3	5011 50	11	2		Tower Engin	eering Solutions
Gh:		0.8	5		Торо	graph	י : י ו	3		Struct	Class	: 11			Pa	ige: 12	Tower Engin	Solutions
Loa	d Case	: 1.2	2D + 1	.0Di + ′	1.0Wi N	ormal	Win	d			1.2	2D + 1.0	0Di + 1	.0Wi 40	mph Wir	nd at N	ormal Fro	om Face
		Wind I	Load Fa	actor:	1.00										Wind Ir	nportan	ce Factor:	1.00
		Dead I	Load Fa	actor:	1.20											•		
	Ice	Dead I	Load Fa	actor:	1.00										Ice Ir	nportan	ce Factor:	1.00
			Total	Total	lce								lce					
Cont	Wind	~	Flat	Round	Round	Cal				lce Thiek	Eff	Linear	Linear	Total	Waiaht	Struct	Linear	Total
Sect	(ft)	qz (psf)	(sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	lce (lb)	(lb)	(lb)	(lb)
1	0.5	3.41	2.337	1.14	1.14	1.00	2.10	1.00	1.00	1.14	3.48	7.45	2.09	710.7	335.5	21.17	0.00	21.17
2	11.0	3.39	1.962	37.01	29.06	0.67	1.78	1.00	1.00	1.55	31.29	165.34	56.76	7,304.6	5503.1	160.41	298.52	458.92
3	31.0	3.40	1.962	40.08	32.14	0.72	1.78	1.00	1.00	1.71	35.03	171.88	62.76	8,131.0	6329.5	179.88	271.07	450.96
4	43.9	3.73	0.736	12.25	9.99	0.77	1.80	1.00	1.00	1.77	11.35	49.81	18.55	2,459.5	1935.1	64.70	69.76	134.46
5	53.9	3.94	3.377	29.34	23.66	0.78	1.80	1.00	1.00	1.80	28.90	125.32	47.19	6,635.5	5211.0	174.28	181.53	355.82
6	68.1	4.19	3.555	30.62	24.94	0.81	1.82	1.00	1.00	1.84	30.97	119.43	44.90	6,587.6	5238.1	201.01	154.87	355.89
7	78.1	4.34	0.490	12.02	9.75	0.74	1.78	1.00	1.00	1.86	10.60	46.66	16.06	2,347.7	1884.8	69.69	84.11	153.80
8	91.0	4.50	1.962	43.41	35.47	0.77	1.79	1.00	1.00	1.89	39.35	163.15	53.84	8,346.7	6719.8	270.38	272.07	542.45
9	111.0	4.73	4.878	44.02	36.07	0.82	1.84	1.00	1.00	1.92	44.77	160.18	39.07	8,938.6	7132.9	330.25	199.94	530.18
10	125.3	4.87	3.271	18.57	16.07	0.86	1.87	1.00	1.00	1.94	20.56	60.84	16.63	4,425.8	3438.9	159.06	64.26	223.32
11	135.3	4.95	0.981	25.04	20.50	0.77	1.79	1.00	1.00	1.95	22.55	71.95	22.32	4,242.4	3353.9	170.41	130.34	300.75
12	151.0	5.08	2.029	44.94	36.99	0.79	1.81	1.00	1.00	1.97	41.53	125.47	38.75	7,554.1	5985.3	324.31	209.70	534.01
13	1/1.0	5.22	1.962	45.30	37.35	0.79	1.81	1.00	1.00	1.99	41.92	100.23	28.19	6,670.3	5228.1	337.10	165.81	502.91
14	186.0	5.32	1.237	29.15	20.13	1.00	2.10	1.00	1.00	2.00	32.10	31.80	8.18	3,391.7	2574.0	304.72	0.00	304.72
15	195.0	5.37	0.000	21.51	18.00	0.91	1.94	1.00	1.00	2.01	20.98	0.04	2.68	1,407.5	1103.1	185.51	5.35 -	190.86
														79,153.8	619/3.0)		5,060.23
Loa	d Case	: 1.2	2D + 1	.0Di + ′	1.0Wi 6	0° Wii	nd					1.2D	+ 1.0D	i + 1.0W	/i 40 mph	Wind a	at 60° Fro	om Face
		Wind I	Load Fa	actor:	1.00										Wind Ir	nportan	ce Factor:	1.00
		Dead I	Load Fa	actor:	1.20													
	lce	Dead I	Load Fa	actor:	1.00										Ice Ir	nportan	ce Factor:	1.00

			Total	Total	lce								lce					
	Wind		Flat	Round	Round					lce	Eff	Linear	Linear	Total		Struct	Linear	Total
Sect	Height	qz	Area	Area	Area	Sol			_	Thick	Area	Area	Area	Weight	Weight	Force	Force	Force
Seq	(ft)	(pst)	(sqft)	(sqft)	(sqft)	Ratio	Ct	Dt	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	Ice (Ib)	(lb)	(Ib)	(Ib)
1	0.5	3.41	2.337	1.14	1.14	1.00	2.10	0.80	1.00	1.14	3.01	7.45	2.09	710.7	335.5	18.32	0.00	18.32
2	11.0	3.39	1.962	37.01	29.06	0.67	1.78	0.80	1.00	1.55	30.90	165.34	56.76	7,304.6	5503.1	158.39	298.52	456.91
3	31.0	3.40	1.962	40.08	32.14	0.72	1.78	0.80	1.00	1.71	34.64	171.88	62.76	8,131.0	6329.5	177.87	271.07	448.94
4	43.9	3.73	0.736	12.25	9.99	0.77	1.80	0.80	1.00	1.77	11.20	49.81	18.55	2,459.5	1935.1	63.87	69.76	133.62
5	53.9	3.94	3.377	29.34	23.66	0.78	1.80	0.80	1.00	1.80	28.23	125.32	47.19	6,635.5	5211.0	170.21	181.53	351.74
6	68.1	4.19	3.555	30.62	24.94	0.81	1.82	0.80	1.00	1.84	30.26	119.43	44.90	6,587.6	5238.1	196.40	154.87	351.27
7	78.1	4.34	0.490	12.02	9.75	0.74	1.78	0.80	1.00	1.86	10.51	46.66	16.06	2,347.7	1884.8	69.05	84.11	153.16
8	91.0	4.50	1.962	43.41	35.47	0.77	1.79	0.80	1.00	1.89	38.96	163.15	53.84	8,346.7	6719.8	267.69	272.07	539.76
9	111.0	4.73	4.878	44.02	36.07	0.82	1.84	0.80	1.00	1.92	43.79	160.18	39.07	8,938.6	7132.9	323.05	199.94	522.99
10	125.3	4.87	3.271	18.57	16.07	0.86	1.87	0.80	1.00	1.94	19.91	60.84	16.63	4,425.8	3438.9	154.00	64.26	218.26
11	135.3	4.95	0.981	25.04	20.50	0.77	1.79	0.80	1.00	1.95	22.35	71.95	22.32	4,242.4	3353.9	168.93	130.34	299.27
12	151.0	5.08	3 2.029	44.94	36.99	0.79	1.81	0.80	1.00	1.97	41.13	125.47	38.75	7,554.1	5985.3	321.14	209.70	530.84
13	171.0	5.22	1.962	45.30	37.35	0.79	1.81	0.80	1.00	1.99	41.53	100.23	28.19	6,670.3	5228.1	333.95	165.81	499.76
14	186.0	5.32	1.237	29.15	20.13	1.00	2.10	0.80	1.00	2.00	31.85	31.80	8.18	3,391.7	2574.0	302.37	0.00	302.37
15	195.0	5.37	0.000	21.51	18.00	0.91	1.94	0.80	1.00	2.01	20.98	6.64	2.68	1,407.5	1103.1	185.51	5.35	190.86
														79,153.8	61973.0	1	-	5,018.08

							Ę	Sect	tion	Force	es						
Stru	cture:	NY0001	1-A-SBA	١				C	code:		TIA-	222-H		4/2	6/2022		
Site	Name:	South Br	istol					E	xpos	ure:	В				XA	((#))	
Heid	uht:	199.00 (1	ft)					C	Crest	Heiaht	t: 849	00				-	DT
Bac		0.000 (ff)	\ \					9	to C	laee		Stiff Sc	il				
Das	e Liev.	0.000 (II))	-			~			01	U- (Jun Oc	11	4	40	Tower Engir	eering Solutions
Gh:		0.85		Горо	grap	ıy:	3	5	struct	Class	: 11			Pa	ige: 13	To not Engli	sering serations
Load	d Case	: 1.2D + 1	1.0Di + ⁻	1.0Wi 9	0° Wi	nd					1.2D	+ 1.0D	i + 1.0W	/i 40 mph	Wind a	at 90° Fro	om Face
		Wind Load F	actor:	1.00										' Wind li	nnortano	e Factor	1 00
		Dead Load F	actor:	1.20										Wind ii	nportant		1.00
	Ice	Dead Load F	actor:	1.00										Ice li	nportano	ce Factor:	1.00
		Total	Total	lce								Ice					
Sect	Wind	Flat	Round	Round	Sal				Ice Thick	Eff	Linear	Linear	Total	Wainht	Struct	Linear	Total
Sect	ft)	(psf) (sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	lce (lb)	(lb)	(lb)	(lb)
1	0.5	3.41 2.337	' 1.14	1.14	1.00	2.10	0.85	1.00	1.14	3.13	7.45	2.09	710.7	335.5	19.03	0.00	19.03
2	11.0	3.39 1.962	2 37.01	29.06	0.67	1.78	0.85	1.00	1.55	31.00	165.34	56.76	7,304.6	5503.1	158.90	298.52	457.41
3	31.0	3.40 1.962	40.08	32.14	0.72	1.78	0.85	1.00	1.71	34.74	171.88	62.76	8,131.0	6329.5	178.37	271.07	449.45
4	43.9	3.73 0.736	6 12.25	9.99	0.77	1.80	0.85	1.00	1.77	11.24	49.81	18.55	2,459.5	1935.1	64.08	69.76	133.83
5	53.9	3.94 3.377	29.34	23.66	0.78	1.80	0.85	1.00	1.80	28.40	125.32	47.19	6,635.5	5211.0	171.23	181.53	352.76
6	68.1	4.19 3.555	30.62	24.94	0.81	1.82	0.85	1.00	1.84	30.43	119.43	44.90	6,587.6	5238.1	197.55	154.87	352.43
7	78.1	4.34 0.490) 12.02	9.75	0.74	1.78	0.85	1.00	1.86	10.53	46.66	16.06	2,347.7	1884.8	69.21	84.11	153.32
8	91.0	4.50 1.962	2 43.41	35.47	0.77	1.79	0.85	1.00	1.89	39.06	163.15	53.84	8,346.7	6719.8	268.36	272.07	540.43
9	111.0	4.73 4.878	8 44.02	36.07	0.82	1.84	0.85	1.00	1.92	44.04	160.18	39.07	8,938.6	7132.9	324.85	199.94	524.79
10	125.3	4.87 3.271	18.57	16.07	0.86	1.87	0.85	1.00	1.94	20.07	60.84	16.63	4,425.8	3438.9	155.27	64.26	219.53
11	135.3	4.95 0.981	25.04	20.50	0.77	1.79	0.85	1.00	1.95	22.40	71.95	22.32	4,242.4	3353.9	169.30	130.34	299.64
12	151.0	5.08 2.029	9 44.94	36.99	0.79	1.81	0.85	1.00	1.97	41.23	125.47	38.75	7,554.1	5985.3	321.93	209.70	531.63
13	171.0	5.22 1.962	2 45.30	37.35	0.79	1.81	0.85	1.00	1.99	41.63	100.23	28.19	6,670.3	5228.1	334.74	165.81	500.55
14	186.0	5.32 1.237	29.15	20.13	1.00	2.10	0.85	1.00	2.00	31.91	31.80	8.18	3,391.7	2574.0	302.96	0.00	302.96
15	195.0	5.37 0.000) 21.51	18.00	0.91	1.94	0.85	1.00	2.01	20.98	6.64	2.68	1,407.5	1103.1	_ 185.51	5.35	190.86
													79,153.8	61973.0)		5,028.62

Loa	d Case	: 1.0D +	1.0W N	ormal W	/ind	d 1.0D + 1.0W 60 mph Wind at Normal To Face											
		Wind Load	Factor:	1.00										Wind I	nportanc	e Factor:	1.00
		Dead Load	Factor:	1.00													
	lce	Dead Load	Factor:	0.00										Ice li	nportanc	e Factor:	1.00
Sect Seq	Wind Height (ft)	Tota Flat qz Area (psf) (sqft	l Total Round Area) (sqft)	lce Round Area (sqft)	Sol Ratio	Cf	Df	Dr	lce Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (Ib)	Weight Ice (Ib)	Struct Force (Ib)	Linear Force (lb)	Total Force (lb)
1	0.5	7.67 2.3	37 0.00	0.00	1.00	2.10	1.00	1.00	0.00	2.34	5.17	0.00	312.7	0.0	32.01	0.00	32.01
2	11.0	7.64 1.9	62 7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	100.82	0.00	1,501.2	0.0	112.31	517.12	629.43
3	31.0	7.64 1.9	62 7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	100.82	0.00	1,501.2	0.0	112.44	517.75	630.20
4	43.9	8.39 0.7	36 2.27	0.00	0.20	2.60	1.00	1.00	0.00	2.05	28.83	0.00	437.0	0.0	38.07	162.58	200.65
5	53.9	8.86 3.3	77 5.68	3 0.00	0.24	2.47	1.00	1.00	0.00	6.72	71.98	0.00	1,187.0	0.0	124.95	428.55	553.50
6	68.1	9.42 3.5	55 5.68	3 0.00	0.24	2.45	1.00	1.00	0.00	6.90	68.29	0.00	1,124.6	0.0	135.66	423.87	559.53
7	78.1	9.75 0.4	90 2.27	0.00	0.18	2.66	1.00	1.00	0.00	1.80	26.37	0.00	385.8	0.0	39.65	168.51	208.16
8	91.0	10.13 1.9	62 7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	91.28	0.00	1,355.7	0.0	149.04	606.49	755.53
9	111.0	10.64 4.8	78 7.94	0.00	0.24	2.46	1.00	1.00	0.00	9.56	87.13	0.00	1,504.8	0.0	212.68	609.58	822.26
10	125.3	10.95 3.2	71 2.50	0.00	0.25	2.42	1.00	1.00	0.00	4.74	34.64	0.00	822.4	0.0	106.81	250.75	357.57
11	135.3	11.14 0.9	31 4.54	0.00	0.18	2.66	1.00	1.00	0.00	3.60	43.13	0.00	740.4	0.0	90.65	319.56	410.22
12	151.0	11.43 2.0	29 7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.63	74.84	0.00	1,307.3	0.0	169.59	569.05	738.63
13	171.0	11.75 1.9	62 7.94	0.00	0.19	2.64	1.00	1.00	0.00	6.56	58.83	0.00	1,201.9	0.0	172.83	460.71	633.54
14	186.0	11.97 1.2	9.02	2 0.00	0.39	2.08	1.00	1.00	0.00	7.09	20.21	0.00	681.4	0.0	150.24	156.58	306.82
15	195.0	12.09 0.0	00 3.51	0.00	0.17	2.71	1.00	1.00	0.00	2.03	5.29	0.00	253.7	0.0	56.67	39.16	95.83
													14,317.3	0.0)	-	6,933.88

								Ę	Sect	ion	Force	s						
Stru	cture:	NY	00011	I-A-SBA	١				С	ode:		TIA-	222-H		4/2	6/2022	4	
Site	Name	: So	uth Br	istol					E	xpos	ure:	В				XA	((#))	
Heid	aht:	199	9.00 (f	t)					C	rest	Heiaht	: 849.	00			1	ІІт	
Rac		0.0	00 (ft)	-/					5	ito C	lace'	D - 9	Stiff So	il	7	S		10
Das Oh:		0.0	.00 (IL) E		Tana			2	0		Class.	. II		11	1		Tower Engir	neering Solutions
Gn:		0.8	0		Торо	grap	1y:	3	3	truct	Class	: 11			P8	ige: 14	Ū	
Loa	d Case	: 1.0)D + 1	.0W 60	° Wind								1.0	D + 1.0V	V 60 mph	Wind a	at 60° Fro	om Face
		Wind	Load F	actor:	1.00										Wind Ir	nportano	e Factor:	1.00
		Dead	Load F	actor:	1.00											•		
	lce	Dead	Load Fa	actor:	0.00										Ice Ir	nportano	ce Factor:	1.00
			Total	Total	Ice								Ice					
Sact	Wind	07	Flat	Round	Round	Sal				lce Thick	Eff	Linear	Linear	Total Weight	Woight	Struct	Linear	Total
Seq	(ft)	q∠ (psf)	(sqft)	(sqft)	(sqft)	Ratio	Cf	Df	Dr	(in)	(sqft)	(sqft)	(sqft)	(lb)	Ice (lb)	(lb)	(lb)	(lb)
1	0.5	7.67	2.337	0.00	0.00	1.00	2.10	0.80	1.00	0.00	1.87	5.17	0.00	312.7	0.0	25.61	0.00	25.61
2	11.0	7.64	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	100.82	0.00	1,501.2	0.0	105.59	517.12	622.71
3	31.0	7.64	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	100.82	0.00	1,501.2	0.0	105.71	517.75	623.47
4	43.9	8.39	0.736	2.27	0.00	0.20	2.60	0.80	1.00	0.00	1.90	28.83	0.00	437.0	0.0	35.34	162.58	197.92
5	53.9	8.86	3.377	5.68	0.00	0.24	2.47	0.80	1.00	0.00	6.04	71.98	0.00	1,187.0	0.0	112.39	428.55	540.94
6	68.1	9.42	3.555	5.68	0.00	0.24	2.45	0.80	1.00	0.00	6.19	68.29	0.00	1,124.6	0.0	121.69	423.87	545.56
/	/8.1	9.75	0.490	2.27	0.00	0.18	2.66	0.80	1.00	0.00	1.70	26.37	0.00	385.8	0.0	37.48	168.51	206.00
8	91.0	10.13	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	0.10	91.28	0.00	1,355.7	0.0	140.12	606.49	746.61
9 10	125.2	10.04	4.070	2.50	0.00	0.24	2.40	0.00	1.00	0.00	0.00	34.64	0.00	922.4	0.0	02.06	250 75	342.92
11	125.3	11 14	0.081	2.50 4.54	0.00	0.23	2.42	0.00	1.00	0.00	3.41	43 13	0.00	740.4	0.0	85.72	319 56	405.28
12	151.0	11 43	2 029	7.94	0.00	0.10	2.00	0.80	1.00	0.00	6 22	74 84	0.00	1 307 3	0.0	159.20	569.05	728 25
13	171.0	11.75	1.962	7.94	0.00	0.19	2.64	0.80	1.00	0.00	6.16	58.83	0.00	1.201.9	0.0	162.49	460.71	623.20
14	186.0	11.97	1.237	9.02	0.00	0.39	2.08	0.80	1.00	0.00	6.84	20.21	0.00	681.4	0.0	145.00	156.58	301.58
15	195.0	12.09	0.000	3.51	0.00	0.17	2.71	0.80	1.00	0.00	2.03	5.29	0.00	253.7	0.0	56.67	39.16	95.83
														14,317.3	0.0	<u>)</u>	-	6,806.32

Loa	Load Case: 1.0D + 1.0W 90° Wi				° Wind								1.0[D + 1.0V	V 60 mph	Wind a	at 90° Fr	om Face
		Wind	Load F	actor:	1.00										Wind I	nportanc	e Factor:	1.00
		Dead	Load F	actor:	1.00											•		
	Ice	Dead	Load F	actor:	0.00										Ice li	nportano	e Factor:	1.00
			Total	Total	lce								lce					
. .	Wind		Flat	Round	Round					lce	Eff	Linear	Linear	Total		Struct	Linear	Total
Sect	Height	qz	Area	Area	Area	Sol Botio	Cf	Df	Dr	Thick	Area	Area	Area	Weight	Weight	Force	Force	Force
Seq	(11)	(psi)	(sqit)	(sqii)	(sqit)	Ratio				(111)	(sqit)	(sqit)	(sqit)	(ui)	ice (ili)	(ui)	(ui)	(u)
1	0.5	7.67	2.337	0.00	0.00	1.00	2.10	0.85	1.00	0.00	1.99	5.17	0.00	312.7	0.0	27.21	0.00	27.21
2	11.0	7.64	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	100.82	0.00	1,501.2	0.0	107.27	517.12	624.39
3	31.0	7.64	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	100.82	0.00	1,501.2	0.0	107.40	517.75	625.15
4	43.9	8.39	0.736	2.27	0.00	0.20	2.60	0.85	1.00	0.00	1.94	28.83	0.00	437.0	0.0	36.02	162.58	198.61
5	53.9	8.86	3.377	5.68	0.00	0.24	2.47	0.85	1.00	0.00	6.21	71.98	0.00	1,187.0	0.0	115.53	428.55	544.08
6	68.1	9.42	3.555	5.68	0.00	0.24	2.45	0.85	1.00	0.00	6.37	68.29	0.00	1,124.6	0.0	125.18	423.87	549.06
7	78.1	9.75	0.490	2.27	0.00	0.18	2.66	0.85	1.00	0.00	1.73	26.37	0.00	385.8	0.0	38.03	168.51	206.54
8	91.0	10.13	1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	91.28	0.00	1,355.7	0.0	142.35	606.49	748.84
9	111.0	10.64	4.878	7.94	0.00	0.24	2.46	0.85	1.00	0.00	8.83	87.13	0.00	1,504.8	0.0	196.40	609.58	805.98
10	125.3	10.95	5 3.271	2.50	0.00	0.25	2.42	0.85	1.00	0.00	4.24	34.64	0.00	822.4	0.0	95.75	250.75	346.50
11	135.3	11.14	0.981	4.54	0.00	0.18	2.66	0.85	1.00	0.00	3.46	43.13	0.00	740.4	0.0	86.95	319.56	406.52
12	151.0	11.43	3 2.029	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.32	74.84	0.00	1,307.3	0.0	161.80	569.05	730.84
13	171.0	11.75	5 1.962	7.94	0.00	0.19	2.64	0.85	1.00	0.00	6.26	58.83	0.00	1,201.9	0.0	165.08	460.71	625.78
14	186.0	11.97	7 1.237	9.02	0.00	0.39	2.08	0.85	1.00	0.00	6.91	20.21	0.00	681.4	0.0	146.31	156.58	302.89
15	195.0	12.09	0.000	3.51	0.00	0.17	2.71	0.85	1.00	0.00	2.03	5.29	0.00	253.7	0.0	56.67	39.16	95.83
														14,317.3	0.0)	-	6,838.21

			Force/	Stre	ess Compressi	on Si	umn	nary	,					
Str	ucture:	NY00011-A-SBA			Code:	EIA	/TIA-	222-	·Η		4/26/2	022		
Sit	e Name:	South Bristol			Exposure:	в					N.A		((冊))	
	iaht:	100 00 (ft)			Croct Hoight	. ovc	000				1	ľ		
пе	ignt:	199.00 (II)			Crest Height	1. 048	9.00					×		- S
Ва	se Elev:	0.000 (ft)			Site Class:	D -	Stiff	Soil			z			
Gh	:	0.85	Topography:	3	Struct Class	: 11					Page	: 15 [°]	Tower Engi	neering Solutions
					LEG MEMBERS									
												Mem		
-	Тор		Force			Len	Bi	racing	j %		Fy	Cap	Leg	.
Sect	Elev	Member	(kips)		Load Case	(ft)	X	Ŷ	Z	KL/R	(ksi)	(kips)	Use %	Controls
1	1 WBM	- W8 x 21	-105.44	1.2D	+ 1.0Di + 1.0Wi 60° Wind	1.76	100	100	100	16.72	44.00	239.59	44.0	Member Y
2	21 SOL -	- 1 3/4" SOLID	-65.48	1.2D	+ 1.0Di + 1.0Wi 60° Wind	2.81	100	100	100	77.07	44.00	65.00	100.7	Member X
3	41 SOL -	- 1 3/4" SOLID	-64.24	1.2D	+ 1.0Di + 1.0Wi 60° Wind	2.81	100	100	100	77.07	44.00	65.00	98.8	Member X
4	46.72 SOL -	- 1 3/4" SOLID	-59.40	1.2D	+ 1.0Di + 1.0Wi 60° Wind	2.78	100	100	100	76.17	44.00	65.58	90.6	Member X
5	61 SOL -	- 1 3/4" SOLID	-70.93	1.2D	+ 1.0W Normal Wind	2.82	50	50	50	38.71	44.00	86.49	82.0	Member X
6	75.28 SOL -	- 1 3/4" SOLID	-70.60	1.2D	+ 1.0W Normal Wind	2.82	50	50	50	38.71	44.00	86.49	81.6	Member X
7	81 SOL -	- 1 3/4" SOLID	-50.37	1.2D	+ 1.0Di + 1.0Wi 90° Wind	2.78	100	100	100	76.17	44.00	65.58	76.8	Member X
8	101 SOL -	- 1 3/4" SOLID	-49.12	1.2D	+ 1.0Di + 1.0Wi Normal	2.81	100	100	100	77.07	44.00	65.00	75.6	Member X
9	121 SOL -	- 1 3/4" SOLID	-66.98	1.2D	+ 1.0W Normal Wind	2.81	50	50	50	38.53	44.00	86.57	77.4	Member X
10	129.5 SOL -	- 1 3/4" SOLID	-66.62	1.2D	+ 1.0W Normal Wind	2.80	50	50	50	38.42	44.00	86.62	76.9	Member X
11	141 SOL -	- 1 3/4" SOLID	-49.14	1.2D	+ 1.0W Normal Wind	2.82	100	100	100	77.24	44.00	64.89	75.7	Member X
12	161 SOL -	- 1 3/4" SOLID	-47.18	1.2D	+ 1.0W 90° Wind	2.81	100	100	100	77.07	44.00	65.00	72.6	Member X
13	181 SOL -	- 1 3/4" SOLID	-47.13	1.2D	+ 1.0W 90° Wind	2.81	100	100	100	77.07	44.00	65.00	72.5	Member X
14	191 SOL -	- 1 1/2" SOLID	-26.09	1.2D	+ 1.0W Normal Wind	2.42	100	100	100	77.34	44.00	47.62	54.8	Member X
15	199 SOL -	- 1 1/2" SOLID	-6.86	1.2D	+ 1.0W Normal Wind	1.93	100	100	100	61.68	50.00	60.21	11.4	Member X

HORIZONTAL MEMBERS

	Ton		Force		Lon	D	!	- 0/		Ev	Mem	Num	Num	Shear	Bear Can	lleo	
Sect	Elev	Member	(kips)	Load Case	(ft)	Х	Y	ς Ζ	KL/R	(ksi)	(kips)	Bolts	Holes	(kips)	(kips)	%	Controls
1	1										0.00	0	0				
2	21	SAE - 1.25x1.25x0.1875	-1.61	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			13.5	Member Z
3	41	SAE - 1.25x1.25x0.1875	-1.27	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			10.6	Member Z
4	46.7	SAE - 1.25x1.25x0.1875	-2.07	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			17.2	Member Z
5	61	SAE - 1.25x1.25x0.1875	-2.69	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			22.4	Member Z
6	75.2	SAE - 1.25x1.25x0.1875	-2.96	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			24.7	Member Z
7	81	SAE - 1.25x1.25x0.1875	-1.67	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			13.9	Member Z
8	101	SAE - 1.25x1.25x0.1875	-0.95	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			8.0	Member Z
9	121	SAE - 1.25x1.25x0.1875	-2.56	1.2D + 1.0W 60° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			21.3	Member Z
10	129.	SAE - 2X2X0.25	-3.46	1.2D + 1.0W Normal Wind	2.50	100	100	100	53.71	36.00	30.77	0	0			11.2	Member Z
11	141	SAE - 1.25x1.25x0.1875	-2.00	0.9D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			16.7	Member Z
12	161	SAE - 1.25x1.25x0.1875	-3.91	1.2D + 1.0W 90° Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			32.7	Member Z
13	181	SAE - 1.25x1.25x0.1875	-3.09	1.2D + 1.0W Normal Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			25.8	Member Z
14	191	SAE - 1.25x1.25x0.1875	-6.99	0.9D + 1.0W Normal Wind	2.50	100	100	100	86.07	36.00	11.98	0	0			58.3	Member Z
15	199	SOL - 1/2" SOLID	-0.41	0.9D + 1.0W 60° Wind	2.50	100	100	100	168.00	36.00	1.57	0	0			26.1	Member X

					DIAGO	NAL	MEM	BER	s								
Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	B X	racing Y	g% Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
1	1				0.00						0.00	0	0				
2	21	SOL - 1/2" SOLID	0.00	1.2D + 1.0W Normal Wind	3.76	50	50	50	162.47	36.00	1.68	0	0				T-Only
3	41	SOL - 1/2" SOLID	-0.03	1.2D + 1.0W Normal Wind	3.76	50	50	50	162.47	36.00	1.68	0	0				T-Only
4	46.7	SOL - 1/2" SOLID	-0.05	1.2D + 1.0W Normal Wind	3.74	50	50	50	161.42	36.00	1.70	0	0				T-Only
5	61	SOL - 1/2" SOLID	-1.56	1.2D + 1.0W Normal Wind	3.77	50	50	50	162.89	36.00	1.67	0	0				T-Only
6	75.2	SOL - 1/2" SOLID	-1.27	1.2D + 1.0W Normal Wind	3.77	50	50	50	162.89	36.00	1.67	0	0				T-Only
7	81	SOL - 1/2" SOLID	-1.67	1.2D + 1.0W Normal Wind	3.74	50	50	50	161.42	36.00	1.70	0	0				T-Only
8	101	SOL - 1/2" SOLID	-0.03	1.2D + 1.0W Normal Wind	3.76	50	50	50	162.47	36.00	1.68	0	0				T-Only
9	121	SOL - 1/2" SOLID	-1.59	1.2D + 1.0W Normal Wind	3.76	50	50	50	162.47	36.00	1.68	0	0				T-Only
10	129.	PLT - 3"x1/4"	-0.27	1.2D + 1.0W Normal Wind	3.75	50	50	50	280.82	36.00	2.15	0	0				T-Only
11	141	SOL - 1/2" SOLID	-0.80	1.2D + 1.0W Normal Wind	3.77	50	50	50	162.67	36.00	1.68	0	0				T-Only

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					Force/Stres	ss Cor	npi	ress	sio	ո Sur	nma	ry						
Str	uctu	re:	NY00011-A	-SBA		Co	de:			EIA/T	IA-22	2-H		4/26/	2022	4		
Site	e Na	me:	South Bristo	ol		Ex	pos	ure:		В				Y		((#		
Hei	ight:		199.00 (ft)			Cre	əst I	Heig	ht:	849.0	0				x		L	' C
Bas	se El	lev:	0.000 (ft)			Sit	e Cl	ass:		D - S	tiff So	il		2			L	
Gh	:		0.85		Topography: 3	Str	uct	Clas	ss:	II				Pag	je: 16	Tower	Engine	ering Solutions
						DIAGO		MEM	BER	S								
Sect	Top Elev		Member	Force (kips)	Load Case	Len (ft)	Br X	acing Y	∣% Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
12	161	SOL	- 1/2" SOLID	-1.60	1.2D + 1.0W Normal Wind	3.76	50	50	50	162.47	36.00	1.68	0	0				T-Only
13	181	SOL	- 1/2" SOLID	-0.29	1.2D + 1.0W Normal Wind	3.76	50	50	50	162.47	36.00	1.68	0	0				T-Only
14	191	MOD	- 1/2"SR+L1.75x1	1/-3.82	1.2D + 1.0W 90° Wind	3.48	50	50	14	27.34	36.00	5.48	0	0			69.7	Member X

T-Only

15 199 SOL - 1/2" SOLID -1.60 1.2D + 1.0W Normal Wind 3.16 50 50 50 136.37 36.00 2.38 0 0

			Force/S	Stress Tension S	Summary				
Str	ucture:	NY00011-A-SBA		Code:	EIA/TIA-222-H	4/26/	/2022	4 h	
Site	e Name:	South Bristol		Exposure:	В	Y		((ආ))	
Hei	ght:	199.00 (ft)		Crest Height:	849.00		x	Т	
Bas	se Elev:	0.000 (ft)		Site Class:	D - Stiff Soil	2			
Gh	:	0.85	Topography: 3	Struct Class:	II	Pag	je: 17	Tower Engi	neering Solutions
				LEG MEMBERS					
0	Тор		Force			Fy	Mem Cap	Leg	
Sect	Flov	Member	(kine)	beol	Caeo	(kei)	(kine)	lleo %	Controle
1	Elev 1	Member	(kips)	Load	Case	(ksi)	(kips)	Use %	Controls
1 2	1 21	Member	(kips)	Load	Case	(ksi) 0 0	(kips) 0.00 0.00	Use %	Controls
1 2 3	Elev 1 21 41	Member	(kips)	Load	Case	(ksi) 0 0	(kips) 0.00 0.00 0.00	Use %	Controls
Sect 1 2 3 4	Elev 1 21 41 46.72	Member	(kips)	Load	Case	(ksi) 0 0 0	(kips) 0.00 0.00 0.00	Use %	Controls
1 2 3 4 5	Elev 1 21 41 46.72 61	Member	(kips)	Load	Case	(ksi) 0 0 0 0	(kips) 0.00 0.00 0.00 0.00	Use %	Controls
Sect 1 2 3 4 5 6	Elev 1 21 41 46.72 61 75.28	Member	(kips)	Load	Case	(ksi) 0 0 0 0 0 0	(kips) 0.00 0.00 0.00 0.00 0.00	Use %	Controls
Sect 1 2 3 4 5 6 7	Elev 1 21 41 46.72 61 75.28 81	Member	(kips)	Load	Case	(ksi) 0 0 0 0 0 0 0	(kips) 0.00 0.00 0.00 0.00 0.00 0.00	Use %	Controls
Sect 1 2 3 4 5 6 7 8	Elev 1 21 41 46.72 61 75.28 81 101	Member	(kips)	Load I	Case	(ksi) 0 0 0 0 0 0 0 0 0	(kips) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Use %	Controls
Sect 1 2 3 4 5 6 7 8 9	Elev 1 21 41 46.72 61 75.28 81 101 121	Member SOL - 1 3/4" SOLID	(kips) 10.74	Load (0.9D + 1.0W 60° Wind	Case	(ksi) 0 0 0 0 0 0 0 0 44	(kips) 0.00 0.00 0.00 0.00 0.00 0.00 95.25	Use % 11.3	Member
Sect 1 2 3 4 5 6 7 8 9 10	Elev 1 21 41 46.72 61 75.28 81 101 121 129.57	Member SOL - 1 3/4" SOLID SOL - 1 3/4" SOLID	(kips) 10.74 10.79	Load (Case	(ksi) 0 0 0 0 0 0 0 0 44 4	(kips) 0.00 0.00 0.00 0.00 0.00 0.00 95.25 95.25	Use % 11.3 11.3	Controls Member Member
Sect 1 2 3 4 5 6 7 8 9 10 11	Elev 1 21 41 46.72 61 75.28 81 101 121 129.57 141	SOL - 1 3/4" SOLID SOL - 1 3/4" SOLID	(kips) 10.74 10.79	Load (0.9D + 1.0W 60° Wind 0.9D + 1.0W 60° Wind	Case	(ksi) 0 0 0 0 0 0 0 0 44 4 4 0	(kips) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 95.25 0.00	Use % 11.3 11.3	Controls Member Member
Sect 1 2 3 4 5 6 7 8 9 10 11 12	Elev 1 21 41 46.72 61 75.28 81 101 121 129.57 141 161	Member SOL - 1 3/4" SOLID SOL - 1 3/4" SOLID SOL - 1 3/4" SOLID	(kips) 10.74 10.79 5.46	Load (Case	(ksi) 0 0 0 0 0 0 0 0 0 44 4 4 4 4 4	(kips) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 95.25 0.00 95.25	Use % 11.3 11.3 5.7	Controls Member Member Member

				HORIZONTAI	L MEM	BERS							
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	1	WBM - W8 x 21	44.90	1.2D + 1.0Di + 1.0Wi 9C	36	199.58	0	0				22.5	Member
2	21	SAE - 1.25x1.25x0.1875	4.01	1.2D + 1.0Di + 1.0Wi No	36	14.06	0	0				28.5	Member
3	41	SAE - 1.25x1.25x0.1875	1.93	1.2D + 1.0W 60° Wind	36	14.06	0	0				13.7	Member
4	46.72	SAE - 1.25x1.25x0.1875	1.58	1.2D + 1.0W 60° Wind	36	14.06	0	0				11.2	Member
5	61	SAE - 1.25x1.25x0.1875	2.08	0.9D + 1.0W 60° Wind	36	14.06	0	0				14.8	Member
6	75.28	SAE - 1.25x1.25x0.1875	1.89	1.2D + 1.0W 60° Wind	36	14.06	0	0				13.4	Member
7	81	SAE - 1.25x1.25x0.1875	1.45	1.2D + 1.0W 60° Wind	36	14.06	0	0				10.3	Member
8	101	SAE - 1.25x1.25x0.1875	1.90	1.2D + 1.0W 90° Wind	36	14.06	0	0				13.5	Member
9	121	SAE - 1.25x1.25x0.1875	3.37	1.2D + 1.0W 60° Wind	36	14.06	0	0				24.0	Member
10	129.57	SAE - 2X2X0.25	2.80	1.2D + 1.0W 60° Wind	36	30.46	0	0				9.2	Member
11	141	SAE - 1.25x1.25x0.1875	1.61	1.2D + 1.0Di + 1.0Wi 6C	36	14.06	0	0				11.5	Member
12	161	SAE - 1.25x1.25x0.1875	1.99	1.2D + 1.0W Normal Wi	36	14.06	0	0				14.1	Member
13	181	SAE - 1.25x1.25x0.1875	2.26	1.2D + 1.0W Normal Wi	36	14.06	0	0				16.0	Member
14	191	SAE - 1.25x1.25x0.1875	7.97	1.2D + 1.0W 60° Wind	36	14.06	0	0				56.7	Member
15	199	SOL - 1/2" SOLID	0.45	1.2D + 1.0W Normal Wi	36	6.36	0	0				7.1	Member

0.9D + 1.0W 60° Wind

0.9D + 1.0W 60° Wind

69.98

79.52

29.5

8.0

Member

Member

44

50

20.66

6.37

14

15

191

199

SOL - 1 1/2" SOLID

SOL - 1 1/2" SOLID

				DIAGONAL	MEME	BERS							
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	1	-	0.00		44	0.00	0	0					
2	21	SOL - 1/2" SOLID	2.49	1.2D + 1.0W 90° Wind	36	6.36	0	0				39.1	Member
3	41	SOL - 1/2" SOLID	2.16	1.2D + 1.0W 90° Wind	36	6.36	0	0				34.0	Member
4	46.72	SOL - 1/2" SOLID	2.95	1.2D + 1.0W 90° Wind	36	6.36	0	0				46.4	Member
5	61	SOL - 1/2" SOLID	4.24	1.2D + 1.0W 90° Wind	36	6.36	0	0				66.6	Member
6	75.28	SOL - 1/2" SOLID	4.59	0.9D + 1.0W 90° Wind	36	6.36	0	0				72.2	Member
7	81	SOL - 1/2" SOLID	2.56	1.2D + 1.0W 90° Wind	36	6.36	0	0				40.2	Member
8	101	SOL - 1/2" SOLID	1.68	$0.9D + 1.0W 90^{\circ}$ Wind	36	6.36	0	0				26.3	Member
9	121	SOL - 1/2" SOLID	3.70	0.9D + 1.0W Normal Wi	36	6.36	0	0				58.1	Member
10	129.57	PLT - 3"x1/4"	6.48	0.9D + 1.0W Normal Wi	36	24.30	0	0				26.7	Member
11	141	SOL - 1/2" SOLID	3.10	0.9D + 1.0W 90° Wind	36	6.36	0	0				48.7	Member
12	161	SOL - 1/2" SOLID	6.00	1.2D + 1.0W 90° Wind	36	6.36	0	0				94.3	Member

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	Force/Stress Tension Summary												
Stru	cture:	NY00011-A-SBA		Co	de:		EIA/TI/	4-222-l	4	4/26/	/2022	4	
Site	Name:	South Bristol		Ex	posure) :	В			¥		((H))	
Heig	ht:	199.00 (ft)		Cr	est Hei	ight:	849.00				x	Ιτ	
Base	e Elev:	0.000 (ft)		Sit	te Clas	s:	D - Stif	f Soil		z			
Gh:		0.85	Topography	: 3 St	ruct Cla	ass:	II			Pag	ge: 18	Tower Engi	neering Solutions
				DIAGON	AL MEME	BERS							
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
13	181	SOL - 1/2" SOLID	4.94	1.2D + 1.0W 90° Win	d 36	6.36	0	0				77.7	Member
14	191	MOD - 1/2"SR+L1.75x1/4_	rO 3.68 ().9D + 1.0W 90° Win	d 36	6.36	0	0				57.9	Member
15	199	SOL - 1/2" SOLID	1.78 ().9D + 1.0W 90° Win	d 36	6.36	0	0				28.0	Member

							Seisi	nic S	ection F	orc	es						
Struc Site N Heigh Base Gh:	ture: lame: nt: Elev:	N S 1 0 0	IY0001 South Bi 99.00 (.000 (ft .85	1-A-SBA ristol ft))	Topogra	phy:	3	Coc Exp Cre Site Stru	le: oosure: st Height: class: uct Class:	TI. B 84 D II	A-222-H 9.00 - Stiff Soil		4	1/26/2	2022 •••• •: 19	(()H Tower I)) ES Engineering Solutions
		_		4.054													
Load	u Case De	ad	Load	Eactor	.0En 1 20	Sds	0 160	Ss	0 1500	Fa	1 6000	Ke	1.0000	TL	6.00	00	
	Seisn	nic	Load	Factor	1.00	Sd1	0.075	S1	0.0470	Fv	2.4000	Ka	0.0060	Cs	0.05	34	
Seism	ic Imp	or	tance F	actor	1.00	W1	0.000	R	3.0000	Vs	1.5577	Т	0.4343	f1	2.30	26	
Sect #	Ele (ft	v)	Wz (lb)			La (ateral Fsz Ibs)	Vertical Ev (lbs)									
1	0.5	50	312.74				0.07	10.01									
2	11.0 31.0)0)0	1501.2 1501.2				7.13 20.09	48.06 48.06									
4	43.8	36	437.03				8.27	13.99									
5	53.8	36 14	1282.3				29.81	41.05									
7	78.	14	534.77				18.03	17.12									
8	91.0	00	1497.7			:	58.82	47.95									
9	111	.00	1903.8			1	91.21	60.95									
10	125.	28 28	740 45				93.93 43.23	23 71									
12	151.	00	4171.7			2	71.87	133.56									
13	171.	00	3663.4			2	70.37	117.29)								
14	186.	00	3966.2			3	18.40	126.98									
15	195.	00	3444.0			2	69.90	110.20									
Load	d Case	e: () 9D + ⁻	1 0Ev + 1	0Eh												
	De	ad	Load	Factor	0.90	Sds	0.160	Ss	0.1500	Fa	1.6000	Ke	1.0000	ΤL	6.00	00	
	Seisn	nic	Load	Factor	1 00	Sd1	0 075	S1	0 0470	Fv	2 4000	Κα	0 0060	Cs	0.05	34	
Seism	ic Imp	or	tance F	actor	1.00	W1	0.070	р.	3 0000	Vs	1 5577	т	0 4343	f1	2.30	26	
Sect	Ele	v	Wz		1.00	La	ateral Fsz	Vertical Ev	3.0000		1.0011	•	0.1010		2.00		
#	(ft)	(ID)			(0.07										
1	0.: 11.(50 00	312.74 1501.2				0.07	48.06									
3	31.(00	1501.2				20.09	48.06									
4	43.8	36	437.03				8.27	13.99									
5	53.8	36 14	1282.3				29.81	41.05									
7	78.	14 14	534.77				18.03	17.12									
8	91.0	00	1497.7				58.82	47.95									
9	111	.00	1903.8			1	91.21	60.95									
10	125.	28	1737.0				93.93	55.61									
11	135.	∠0 00	4171.7			2	43.23 71.87	23.71									
13	171.	00	3663.4			2	70.37	117.29	1								
14	186.	00	3966.2			3	18.40	126.98									
15	195.	00	3444.6			2	89.90	110.28									

Structure: NYN00111-A:SBA Code: TIA-222-H 4/26/2021 A Site Name: South Bristol Exposure: B June 1 June 1<		Support Forces Summary									
Site Name: South Bifstol Exposure: B Height: 199.00 (ft) Crest Height: 849.00 Struct Class: D D Struct Class: I Page: 20 Struct Class: D D Struct Class: D D Struct Class: D D Struct Class: D D Struct Class: I D D Struct Class: D D D Struct Class: D Struct Class: D D Struct Class: D Struct Class: D Struct Class: D Struct Class: D Struct Class: </th <th>Structure:</th> <th>NY00011-A-SBA</th> <th></th> <th>C</th> <th>ode:</th> <th>TIA-222-H</th> <th>4/26/2022</th> <th>440000</th>	Structure:	NY00011-A-SBA		C	ode:	TIA-222-H	4/26/2022	4 4 0 000			
Height: 199.00 (ft) Crest Height: 849.00 Mole Page: 20 Description Base Elev: 0.000 (ft) Site Class: D - Stiff Soil Page: 20 Page: 20 </th <th>Site Name:</th> <th>South Bristol</th> <th></th> <th>E</th> <th>kposure:</th> <th>В</th> <th>¥4</th> <th>de da ma</th>	Site Name:	South Bristol		E	kposure:	В	¥4	de da ma			
Base Elev: 0.000 (ft) Site Class: D - Stiff Soil Page: 20 Decade and the page of the page	Height:	199.00 (ft)		C	rest Height:	849.00	×	I EC			
Gh: 0.85 Topography: 3 Struct Class: II Page: 20 Text Espectra (Solution Class) Load Case Note FX FY FZ FZ <td< th=""><th>Base Elev:</th><th>0.000 (ft)</th><th></th><th>Si</th><th>te Class:</th><th>D - Stiff Soil</th><th>Z</th><th></th></td<>	Base Elev:	0.000 (ft)		Si	te Class:	D - Stiff Soil	Z				
FX FV FZ (lpp) (lpp) </th <th>Gh:</th> <th>0.85</th> <th>Topography:</th> <th>3 St</th> <th>ruct Class:</th> <th>II</th> <th>Page: 20</th> <th>Tower Engineering Solutions</th>	Gh:	0.85	Topography:	3 S t	ruct Class:	II	Page: 20	Tower Engineering Solutions			
1.2D + 1.0W Normal Wind 1 0.08 146.83 -0.39 Atb 371.5 -53.08 -23.06 1.2D + 1.0W 60' Wind 1 -124 106.43 -0.76 Ata -37.24 -57.68 -41.4 Ata -0.75 -5.68 -4.14 Ata -0.76 -0.68 -23.43 1.2D + 1.0W 80' Wind 1 -0.71 -5.68 -4.14 Ata -40.56 -00.88 -23.43 1.2D + 1.0W 80' Wind 1 0.47 138.41 -0.62 Ata -40.56 -00.88 -23.43 0.9D + 1.0W Normal Wind 1 0.07 138.21 -0.52 0.9D + 1.0W 60' Wind 1 -1.73 67.27 -23.04 0.9D + 1.0W 60' Wind 1 -1.13 98.33 -0.76 Ata -3.77 -5.71 -4.16 Ata -4.44 -5.80 -2.71 Ata -4.44 -2.34 -0.62 Ata -4.43 -6.68 -2.34 0.9D + 1.0W 80' Wind 1	Load Case	9	Node	FX (kips)	FY (kips)	FZ (kips) (-)) = Uplift (+) = Down				
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Atb3.16-5.76-2.69Ata-40.56-60.86-224.31.2D + 1.0W 90" Wind10.71134.41-0.45Atb0.088-23.33-0.93Ata-44.47-66.00-24.590.9D + 1.0W Normal Wind10.07138.21-0.52Atb0.088-23.30-0.71Atb37.08-52.95-23.01Ata-37.17-57.27-23.040.9D + 1.0W 60" Wind1-1.3009.33Ata-0.75-5.714.16Atb32.00-0.78Atb32.00-0.78Atb-0.84-2.21Atb-0.84-2.21Atb-0.89-2.320.9D + 1.0W 60" Wind1-0.8112.00-0.77-3.410.9D + 1.0W 90" Wind1-0.81Atb-0.88-2.32-0.91-1.10-1.00Atb-0.68-2.451.2D + 1.0Di + 1.0Wi Normal Wind1-0.66Atb-0.68-2.451.2D + 1.0Di + 1.0Wi 00" Wind1-0.06Atb-1.3113.00Atb-1.32-2.281.2D + 1.0Di + 1.0Wi 90" Wind1-0.06Atb-2.28-1.141.2D + 1.0Di + 1.0Wi 90" Wind1Atb-0.26-2.71Atb-2.26-2.71Atb-1.601.67Atb-0.66Atb-2.281			A1	-0.75	-5.66	4.14					
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1.2D + 1.0W 90* Wind 1 -0.71 134.41 -0.45 A1 -1.27 -31.82 25.66 A1b 0.88 -2.33 -0.93 A1a -44.47 -66.00 -24.59 0.9D + 1.0W Normal Wind 1 0.07 138.21 -0.52 A1b 37.08 -52.95 -23.01 A1b 37.08 -52.95 -23.01 0.9D + 1.0W 60* Wind 1 -1.30 98.33 -0.78 A1a -0.75 -5.71 4.16 A1a -0.76 -5.71 4.16 A1a -0.76 -5.71 4.16 A1a -0.76 -5.71 4.16 A1a -0.76 -5.71 4.16 .2D + 1.0W 90* Wind 1 -0.64 -0.24 A1a -40.54 -60.84 -23.41 .2D + 1.0Di + 1.0Wi Normal Wind 1 0.95 -11.41 1.2D + 1.0Di + 1.0Wi 60* Wind 1 -0.06 186.76 -0.04 A1a -7.62 -23.59 -11.14 -12.84			A1a	-40.56	-60.88 -	·23.43					
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A1a 0.48 -2.33 -0.93 A1a 44.47 -60.00 -2.45.99 0.9D + 1.0W Normal Wind 1 0.07 138.21 -0.52 A1a 0.00 -1.75 0.71 A1b 0.77 -23.04 0.9D + 1.0W 60° Wind 1 -1.30 98.33 -0.78 A1a -37.17 -57.27 -23.04 0.9D + 1.0W 60° Wind 1 -0.75 -5.71 4.16 A1a -40.54 -60.84 -23.41 -0.78 0.9D + 1.0W 90° Wind 1 -0.81 126.05 -0.42 A1a -40.54 -60.84 -23.41 0.9D + 1.0W 90° Wind 1 0.05 186.40 -0.14 A1a -1.026 186.56 -0.42 -0.41 L2D + 1.0Di + 1.0Wi Normal Wind 1 0.05 186.40 -0.14 1.2D + 1.0Di + 1.0Wi Normal Wind 1 0.06 186.76 -0.04 A1a -17.62 -23.59 -11.14 -11.4 1.2D + 1.0Di + 1.0Wi 80° Wind 1 -0.06			A1	-1.27	-31.82	25.96					
0.9D + 1.0W Normal Wind 1 0.07 138.21 -0.52 A1 0.00 -1.75 0.71 A1b 37.08 -52.95 -23.01 A1a -37.17 -57.27 -23.04 0.9D + 1.0W 60° Wind 1 -1.30 98.33 -0.78 A1b 3.20 -5.80 -2.71 A1a -40.54 -60.84 -2.23.41 0.9D + 1.0W 90° Wind 1 -0.81 126.05 -0.42 A1 -1.27 -31.73 25.89 -0.34 A1a -40.54 -60.84 -2.23.41 -0.42 0.9D + 1.0W 90° Wind 1 -0.81 126.05 -0.42 A1a -1.27 -31.73 25.89 -0.34 A1a -44.39 -65.86 -24.55 1.2D + 1.0Di + 1.0Wi Normal Wind 1 0.00 -87.7 9.34 A1a -17.62 -23.59 -11.18 -11.18 1.2D + 1.0Di + 1.0Wi 80° Wind 1 -0.06 186.76 -0.04 A1a -21.26 -28.34 -12.			A1b	0.88	-2.33	-0.93					
0.9D + 1.0W Normal Wind 1 0.07 138.21 0.52 A10 0.07 175 0.71 A1b 37.08 -52.95 -23.01 A1a -37.17 -57.27 -23.04 0.9D + 1.0W 80" Wind 1 -1.03 98.33 0.78 0.9D + 1.0W 80" Wind 1 -1.03 98.33 0.78 0.9D + 1.0W 90" Wind 1 -0.081 128.09 0.42 A1a 40.54 -60.84 -23.41 0.9D + 1.0W 90" Wind 1 -0.081 128.09 0.42 A1a -1.27 -31.73 25.89 A1b 0.89 -2.35 -0.94 A1a -0.41 128.09 -0.42 A1a -0.41 128.09 -0.42 A1b 0.89 -2.35 -0.94 A1a -0.41 128.09 -0.42 A1a -0.41 -1.75 -2.163 -11.08 A1a -1.75 -2.163 -11.08 A1a -1.762 -23.59 -11.14 1.2D + 1.0Di + 1.0Wi 80" Wind 1 -0.06 186.76 -0.04 A1a -1.762 -23.59 -11.14 1.2D + 1.0Di + 1.0Wi 80" Wind 1 -0.09 186.57 0.04 A1a -0.42 A1b -0.42 A1b -0.48 -13.16 -7.19 A1a -21.26 -22.700 -11.41 1.2D + 1.0Di + 1.0Wi 90" Wind 1 -0.09 186.57 0.04 A1 -0.00 72.83 0.00 A1a -20.62 -27.00 -11.41 1.2D + 1.0Eh 1 0.00 72.83 0.00 A1a -0.00 72.83 0.00 A1a -0.00 -10.50 9.18 A1a -0.25 -13.71 -5.34 0.9D + 1.0Eh 1 0.00 -10.50 9.18 A1a -0.25 -13.71 -5.34 0.9D + 1.0Eh 1 0.00 -10.73 9.38 A1a -0.25 -13.71 -5.34 0.9D + 1.0Eh 1 0.00 -10.73 9.38 A1a -9.25 -13.71 -5.34 0.9D + 1.0Eh 1 1.289 -5.44 A1a -9.40 -13.95 -5.43				-44.47							
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			A1D A1a	-37.00	-57.27 -	.23.01					
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			A1a	-44.39	-65.86 -	24.55					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2D + 1.0Di + 1	.0Wi Normal Wind	1	0.05	186.40	-0.14					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			A1	0.00	-8.77	9.34					
A1a -17.62 -23.59 -11.14 $1.2D + 1.0Di + 1.0Wi 60° Wind$ 1 -0.06 186.76 -0.04 A1 -0.80 -13.13 13.00 A1b 10.86 -13.16 -7.19 A1a -21.26 -28.34 -12.28 $1.2D + 1.0Di + 1.0Wi 90° Wind$ 1 -0.09 186.57 0.04 A1 -0.98 -17.33 16.84 A1b 8.69 -9.97 -5.48 A1a -22.62 -27.00 -11.41 $1.2D + 1.0Ev + 1.0Eh$ 1 0.00 72.83 0.00 A1 0.00 -10.50 9.18 A1a -9.25 -13.71 -5.34 $0.9D + 1.0Ev + 1.0Eh$ 1 0.00 65.17 0.00 A1a -9.25 -13.71 -5.34 $0.9D + 1.0Ev + 1.0Eh$ 1 0.00 65.17 0.00 A1a -9.40 -13.95 -5.43			A1b	17.55	-21.63 ·	-11.08					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			A1a	-17.62	-23.59	-11.14					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2D + 1.0Di + 1.	.0Wi 60° Wind	1	-0.06	186.76	-0.04					
A1b10.86-13.16-7.19A1a-21.26-28.34-12.281.2D + 1.0Di + 1.0Wi 90° Wind1-0.09186.570.04A1-0.98-17.3316.84A1b8.69-9.97-5.48A1a-20.62-27.00-11.411.2D + 1.0Ev + 1.0Eh10.0072.830.00A10.00-10.509.18A1b9.27-12.67-5.35A1a-9.25-13.71-5.340.9D + 1.0Ev + 1.0Eh10.0065.170.00A1a-9.25-13.71-5.340.9D + 1.0Ev + 1.0Eh10.00-10.739.36A1a-9.40-13.95-5.43			A1	-0.80	-13.13	13.00					
A1a -21.26 -28.34 -12.28 $1.2D + 1.0Di + 1.0Wi 90° Wind$ 1 -0.09 186.57 0.04 A1 -0.98 -17.33 16.84 A1b 8.69 -9.97 -5.48 A1a -20.62 -27.00 -11.41 $1.2D + 1.0Ev + 1.0Eh$ 1 0.00 72.83 0.00 A1b 9.27 -12.67 -5.35 A1a -9.25 -13.71 -5.34 $0.9D + 1.0Ev + 1.0Eh$ 1 0.00 65.17 0.00 A1a -9.40 -10.73 9.36 A1b 9.41 -12.89 -5.43			A1b	10.86	-13.16	-7.19					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			A1a	-21.20	-28.34 -						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2D + 1.0Di + 1	.0Wi 90° Wind	1	-0.09	186.57	0.04					
A1b 0.09 -9.97 -0.46 A1a -20.62 -27.00 -11.41 1.2D + 1.0Ev + 1.0Eh 1 0.00 72.83 0.00 A1 0.00 -10.50 9.18 A1b 9.27 -12.67 -5.35 A1a -9.25 -13.71 -5.34 0.9D + 1.0Ev + 1.0Eh 1 0.00 65.17 0.00 A1b 9.41 -12.89 -5.44 A1a -9.40 -13.95 -5.43			A1	-0.98	-17.33	16.84					
1.2D + 1.0Ev + 1.0Eh 1 0.00 72.83 0.00 A1 0.00 -10.50 9.18 A1b 9.27 -12.67 -5.35 A1a -9.25 -13.71 -5.34 0.9D + 1.0Ev + 1.0Eh 1 0.00 65.17 0.00 A1b 9.41 -12.89 -5.44 A1a -9.40 -13.95 -5.43			A1D A1a	-20.62	-9.97	-5.40					
1.2D + 1.0EV + 1.0Eh 1 0.00 72.83 0.00 A1 0.00 -10.50 9.18 A1b 9.27 -12.67 -5.35 A1a -9.25 -13.71 -5.34 $0.9D + 1.0Ev + 1.0Eh$ 1 0.00 65.17 0.00 A1 0.00 -10.73 9.36 A1b 9.41 -12.89 -5.43											
A1b 9.27 -12.67 -5.35 A1a -9.25 -13.71 -5.34 0.9D + 1.0Ev + 1.0Eh 1 0.00 65.17 0.00 A1 0.00 -10.73 9.36 A1b 9.41 -12.89 -5.44 A1a -9.40 -13.95 -5.43	1.20 + 1.0EV + 1	.uen	Δ1	0.00	12.83 -10.50	9.18					
A1a -9.25 -13.71 -5.34 0.9D + 1.0Ev + 1.0Eh 1 0.00 65.17 0.00 A1 0.00 -10.73 9.36 A1b 9.41 -12.89 -5.44 A1a -9.40 -13.95 -5.43			A1b	9.27	-12.67	-5.35					
0.9D + 1.0Ev + 1.0Eh 1 0.00 65.17 0.00 A1 0.00 -10.73 9.36 A1b 9.41 -12.89 -5.44 A1a -9.40 -13.95 -5.43			A1a	-9.25	-13.71	-5.34					
A1 0.00 -10.73 9.36 A1b 9.41 -12.89 -5.44 A1a -9.40 -13.95 -5.43	0.9D + 1.0Ev + 1	0Eh		0.00	65 17	0.00					
A1b 9.41 -12.89 -5.44 A1a -9.40 -13.95 -5.43			A1	0.00	-10.73	9.36					
A1a -9.40 -13.95 -5.43			A1b	9.41	-12.89	-5.44					
			A1a	-9.40	-13.95	-5.43					

1.0D + 1.0W Normal Wind		1	0.00	63.63	-0.56	
		A1	0.00	-1.05	0.90	
		A1b	11.62	-16.20	-6.99	
		A1a	-11.62	-17.54	-7.00	
1.0D + 1.0W 60° Wind		1	-0.49	62.76	-0.29	
		A1	-0.22	-5.75	4.66	
		A1b	3.92	-5.78	-2.52	
		A1a	-14.92	-22.47	-8.62	
1.0D + 1.0W 90° Wind		1	-0.54	63.64	-0.03	
		A1	-0.28	-11.07	9.18	
		A1b	1.58	-2.40	-1.04	
		A1a	-14.32	-21.37	-8.11	
Max Reactions (kips)	Base	An	chor 1			
Vertical	186.76		66.00			
Horizontal	1.52		50.82			

			Cable I	Forces Sumr	mary		
Structure:	NY00011-A-SBA			Code:	TIA-222-H	4/26/2022	44,000.5N
Site Name:	South Bristol			Exposure:	В		
Height:	199.00 (ft)			Crest Height:	849.00		
Base Elev:	0.000 (ft)			Site Class:	D - Stiff Soil		
Gh:	0.85	Topography:	3	Struct Class:	II	Page: 22	Tower Engineering Solutions
Load Case	Elevation (ft)	Cable	Node 1	Node 2	Allow Tension (kips)	Applied Tension (kins)	Use %
1.2D + 1.0W Norm	nal 60.83	1/2 EHS	A1	28	16.02	0.06	0
Wind							
			A1b	28a 28b	16.02 16.02	10.75	67 70
	120 83	7/16 FHS	Ala Al	260 T2	12 48	0.23	2
	0.00	.,	A1a	T2b	12.48	9.31	75
			A1b	T2a	12.48	8.87	71
			A1b	T2	12.48	9.08	73
			A1a	T2a	12.48	9.61	77
			A1	T2b	12.48	0.24	2
	146.79		A1	68	12.48	0.36	3
			A1b	68a	12.48	9.31	75
	102 50		A1a	68D T4	12.48	9.80	79
	105.50	9/10 EH3	Α1 Δ1a	14 T4b	21.00	16.89	80
			A1b	T4a	21.00	16.03	77
			A1b	T4	21.00	16.16	77
			A1a	T4a	21.00	16.75	80
			A1	T4b	21.00	0.71	3
1.2D + 1.0W 60° V	Wind 60.83	1/2 EHS	A1	28	16.02	0.86	5
			A1b	28a	16.02	0.72	5
			A1a	28b	16.02	12.09	75
	120.83	//16 EHS	A1	12	12.48	0.96	8
			A1a A1b	T2D	12.48	10.21	82
			Δ1b	12a T2	12.40	0.88	7
			A1a	T2a	12.40	10.09	, 81
			A1	T2b	12.48	0.91	7
	146.79		A1	68	12.48	1.06	8
			A1b	68a	12.48	1.05	8
			A1a	68b	12.48	10.66	85
	183.58	9/16 EHS	A1	T4	21.00	1.95	9
			A1a	T4b	21.00	17.63	84
			A1b	14a T4	21.00	2.02	10
			Α10 Δ1a	14 T4a	21.00	2.07	10 84
			A1	T4b	21.00	1 85	9
1.2D + 1.0W 90° V	Vind 60.83	1/2 EHS	A1	28	16.02	6.47	40
			A1b	28a	16.02	0.19	1
			A1a	28b	16.02	13.23	83
	120.83	7/16 EHS	A1	T2	12.48	5.59	45
			A1a	T2b	12.48	11.25	90
			A1b	T2a	12.48	0.34	3
			A1b	12 T2a	12.48	0.35	3
			A1a A1	T2a T2b	12.40	10.93	00 /3
	146 79		A1	68	12.40	5 41	43
			A1b	68a	12.48	0.46	4
			A1a	68b	12.48	11.51	92
	183.58	9/16 EHS	A1	T4	21.00	9.83	47
			A1a	T4b	21.00	18.86	90
			A1b	T4a	21.00	0.88	4
			A1b	T4	21.00	0.90	4
			A1a	T4a	21.00	19.07	91
			A1	14b	21.00	9.59	46

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0.9D + 1.0W Normal Wind	60.83	1/2 EHS	A1	28	16.02	0.06	0
			A1b	28a	16.02	10.76	67
			A1a	28b	16.02	11.29	70
	120.83	7/16 EHS	A1	T2	12.48	0.24	2
			A1a	T2b	12.48	9.30	75
			A1b	T2a	12.48	8.86	71
			A1b	T2	12 48	9.07	73
			Δ1a	T2a	12.10	0.50	77
			Δ1	T2b	12.40	0.24	2
	146 70		A1	60	12.40	0.24	2
	140.79		AI	00	12.40	0.30	74
			AID	68a	12.48	9.29	74
	(Ala	080	12.48	9.77	78
	183.58	9/16 EHS	A1	14	21.00	0.72	3
			A1a	I4b	21.00	16.84	80
			A1b	T4a	21.00	16.07	77
			A1b	Τ4	21.00	16.10	77
			A1a	T4a	21.00	16.68	79
			A1	T4b	21.00	0.72	3
0.9D + 1.0W 60° Wind	60.83	1/2 EHS	A1	28	16.02	0.85	5
			A1b	28a	16.02	0.73	5
			A1a	28b	16.02	12.09	75
	120.83	7/16 EHS	A1	T2	12.48	0.96	8
			A1a	T2b	12.48	10.19	82
			A1b	T2a	12.48	0.88	7
			A1b	Т2	12 48	0.89	7
			A1a	T2a	12.48	10 10	81
			Δ1	T2h	12.40	0.01	7
	146 70		A1	68	12.40	1.07	0
	140.79		A1	692	12.40	1.07	9
			AID A1-	008	12.40	1.00	0
	400 50		Ala	08D	12.48	10.05	85
	183.58	9/16 EHS	A1	14	21.00	1.97	9
			A1a	T4b	21.00	17.63	84
			A1b	T4a	21.00	2.04	10
			A1b	T4	21.00	2.08	10
			A1a	T4a	21.00	17.58	84
			A1	T4b	21.00	1.87	9
0.9D + 1.0W 90° Wind	60.83	1/2 EHS	A1	28	16.02	6.47	40
			A1b	28a	16.02	0.19	1
			A1a	28b	16.02	13.23	83
	120.83	7/16 EHS	A1	T2	12.48	5.56	45
			A1a	T2b	12.48	11.21	90
			A1b	T2a	12 48	0.34	3
			A1h	T2	12.48	0.35	3
			Δ1a	T22	12.40	10.02	88
			A10	T26	12.40	5 30	42
	146 70		A1	69	12.40	5.30	42
	140.79		AI	00	12.40	0.47	43
			AID	088	12.48	0.47	4
	(Ala	080	12.48	11.47	92
	183.58	9/16 EHS	A1	14	21.00	9.81	47
			A1a	T4b	21.00	18.82	90
			A1b	T4a	21.00	0.88	4
			A1b	T4	21.00	0.91	4
			A1a	T4a	21.00	19.02	91
			A1	T4b	21.00	9.54	45
1.2D + 1.0Di + 1.0Wi Normal Wind	60.83	1/2 EHS	A1	28	16.02	3.23	20
			A1b	28a	16.02	5.65	35
			A1a	28h	16.02	6.02	38
	120.83	7/16 EHS	Δ1	T2	12.48	2 70	22
	120.00		Δ12	72h	12.48	5.03	10
			A16	T20	12.40	J.05 4 74	40
			A 10 A 16	12d T0	12.40	4.74	30
				12	12.40	4.00	38
			Ala	128	12.48	5.01	40
			A1	12b	12.48	2./2	22
	146.79		A1	68	12.48	2.58	21
			A1b	68a	12.48	5.03	40
			A1a	68b	12.48	5.27	42
	183.58	9/16 EHS	A1	Τ4	21.00	3.30	16

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1.2D + 1.0Di + 1.0Wi Normal Wind	183.58	9/16 EHS	A1a	T4b	21.00	7.90	38
			A1b	T4a	21.00	7.46	36
			A1b	Τ4	21.00	7.55	36
			A1a	T4a	21.00	7.81	37
			A1	T4b	21.00	3 20	16
1.2D + 1.0Di + 1.0Wi	60.83	1/2 EHS	A1	28	16.02	3.93	25
60° Wind			A1b	28a	16.02	3 91	24
			Δ1a	28h	16.02	6.66	42
	100.00	7/16 EUS	A1a	200	10.02	2.00	-+2
	120.05	//10 EH3	AI		12.40	5.30	21
			Ala	T2D	12.48	5.76	46
			A1b	T2a	12.48	3.30	26
			A1b	T2	12.48	3.34	27
			A1a	T2a	12.48	5.75	46
			A1	T2b	12.48	3.31	27
	146.79		A1	68	12.48	3.41	27
			A1b	68a	12.48	3.40	27
			A1a	68b	12.48	6.10	49
	183 58	9/16 EHS	A1	Τ4	21.00	4 86	23
		0,10 2110	A1a	T4h	21.00	9.42	45
			A1b	Tía	21.00	1 78	-10
			A16	14a T4	21.00	4.70	20
			AID	14	21.00	4.00	23
			Ala	14a	21.00	9.42	45
			A1	140	21.00	4.73	23
1.2D + 1.0Di + 1.0Wi 90° Wind	60.83	1/2 EHS	A1	28	16.02	4.80	30
			A1b	28a	16.02	3.37	21
			A1a	28b	16.02	6.53	41
	120 83	7/16 FHS	A1	T2	12 48	4 10	33
	.20.00	.,	A1a	T2h	12.48	5 59	45
			A1b	T20	12.40	2.84	-10
			A16	T2a	12.40	2.04	20
			AID	12	12.40	2.03	23
			Ala	TZa	12.48	5.50	45
			A1	12b	12.48	4.01	32
	146.79		A1	68	12.48	4.23	34
			A1b	68a	12.48	2.78	22
			A1a	68b	12.48	5.88	47
	183.58	9/16 EHS	A1	T4	21.00	6.18	29
			A1a	T4b	21.00	8.93	43
			A1b	T4a	21.00	3.73	18
			A1b	Τ4	21.00	3.80	18
			A1a	T4a	21.00	8 97	43
			Δ1	T4h	21.00	6.05	29
1 2D + 1 0Ev + 1 0Eb	60.83	1/2 EHS	Δ1	28	16.02	3 36	21
1.20 • 1.024 • 1.021	00.00	1/2 EI 10	A1b	282	16.02	3.48	21
			A10	20a 20h	16.02	2.40	22
	400.00		Ala	200	10.02	3.03	23
	120.83	7/16 EHS	A1	12	12.48	1.58	13
			A1a	T2b	12.48	1.93	15
			A1b	T2a	12.48	1.83	15
			A1b	T2	12.48	1.83	15
			A1a	T2a	12.48	1.94	16
			A1	T2b	12.48	1.58	13
	146.79		A1	68	12.48	1.38	11
			A1b	68a	12.48	1.75	14
			A1a	68b	12.48	1.85	15
	183.58	9/16 EHS	A1	Τ4	21.00	3.39	16
			A1a	T4b	21.00	4.38	21
			A1b	T4a	21.00	4 23	20
			A16	Τ-τα Τ-1	21.00	4.20	20
			A10	T4	21.00	4.40	20
				14d T4L	21.00	4.40	21
	00.00		AT	140	21.00	3.38	16
0.9D + 1.0EV + 1.0Eh	60.83	1/2 EHS	A1	28	16.02	3.38	21
			A1b	28a	16.02	3.51	22
			A1a	28b	16.02	3.66	23
	120.83	7/16 EHS	A1	T2	12.48	1.62	13
			A1a	T2b	12.48	1.97	16
			A1b	T2a	12.48	1.87	15
			A1b	T2	12.48	1.86	15

0.9D + 1.0Ev + 1.0Eh	120.83	7/16 EHS	A1a	T2a	12.48	1.98	16
			A1	T2b	12.48	1.62	13
	146.79		A1	68	12.48	1.42	11
			A1b	68a	12.48	1.79	14
			A1a	68b	12.48	1.89	15
	183.58	9/16 EHS	A1	T4	21.00	3.46	16
			A1a	T4b	21.00	4.45	21
			A1b	T4a	21.00	4.31	21
			A1b	T4	21.00	4.29	20
			A1a	T4a	21.00	4.47	21
			A1	T4b	21.00	3.46	16
1.0D + 1.0W Normal Wind	60.83	1/2 EHS	A1	28	16.02	0.48	3
			A1b	28a	16.02	3.83	24
			A1a	28b	16.02	4.01	25
	120.83	7/16 EHS	A1	T2	12.48	0.08	1
			A1a	T2b	12.48	2.71	22
			A1b	T2a	12.48	2.53	20
			A1b	12	12.48	2.64	21
			Ala	T2a	12.48	2.74	22
	4 4 0 7 0		A1	120	12.48	0.08	1
	146.79		AI	08	12.48	0.10	- 1
			Alb	08a	12.48	2.55	20
	102 50		Ala	08D T4	12.48	2.69	22
	103.30	9/10 EHS	Al	14 T46	21.00	0.50	ა ევ
			A1a A1b		21.00	5.49	20
			A10 A16	14a T4	21.00	5.10	24
			A12	14 T/a	21.00	5.27	25
			Δ1	T4a T4b	21.00	0.55	20
1 0D + 1 0W 60° Wind	60.83	1/2 EHS	Δ1	28	16.02	1 37	a
1.0D + 1.0W 00 Wind	00.00	1/2 2110	Δ1h	282	16.02	1.37	8
			A1a	28h	16.02	4 78	30
	120 83	7/16 FHS	A1	T2	12.48	0.77	6
	120.00	Into Ento	A1a	T2h	12.48	3.52	28
			A1b	T2a	12.10	0.73	6
			A1b	T2	12.48	0.74	6
			A1a	T2a	12.48	3.49	28
			A1	T2b	12.48	0.74	6
	146.79		A1	68	12.48	0.80	6
			A1b	68a	12.48	0.79	6
			A1a	68b	12.48	3.58	29
	183.58	9/16 EHS	A1	Τ4	21.00	2.21	11
			A1a	T4b	21.00	6.91	33
			A1b	T4a	21.00	2.14	10
			A1b	Τ4	21.00	2.23	11
			A1a	T4a	21.00	6.91	33
			A1	T4b	21.00	2.08	10
1.0D + 1.0W 90° Wind	60.83	1/2 EHS	A1	28	16.02	2.63	16
			A1b	28a	16.02	0.61	4
			A1a	28b	16.02	4.65	29
	120.83	7/16 EHS	A1	T2	12.48	1.74	14
			A1a	T2b	12.48	3.41	27
			A1b	T2a	12.48	0.26	2
			A1b	12	12.48	0.28	2
			Ala	T2a	12.48	3.33	27
	146 70		A1	1 ZD	1∠.4ŏ 10.40	1.03	13
	140.79		A1	б0 СРо	12.4ð		13
				002 69b	12.40 10.49	U.JZ	ა ეუ
	193 59	0/16 EUS	A 1a		1∠.40 21.00	3.40 3.91	∠/ 10
	103.30	SI IU ENO	Δ12	14 T4b	21.00	5.01 6.46	10 24
			Δ1h	T40	21.00	1 01	51
			A1b	T4	21.00	1.07	5
			Ala	T4a	21.00	6.56	31
			A1	T4b	21.00	3.60	17

	Analysis Summary										
Structure:	NY00011-A-SBA			Code:	TIA-222-H	4/26/2022	4410.55				
Site Name:	South Bristol			Exposure:	В		dealers)				
Height:	199.00 (ft)			Crest Height:	849.00		EC				
Base Elev:	0.000 (ft)			Site Class:	D - Stiff Soil						
Gh:	0.85	Topography:	3	Struct Class:	II	Page: 26	Tower Engineering Solutions				

Max Reactions

Base:	186.76 (Vertical)	1.52 (Horizontal)
Anchor 1:	66.00 (Vertical)	50.82 (Horizontal)

Max Usages

Max Leg: 100.7% (1.2D + 1.0Di + 1.0Wi 60° Wind - Sect 2) Max Diag: 94.3% (1.2D + 1.0W 90° Wind - Sect 12) Max Horiz: 58.3% (0.9D + 1.0W Normal Wind - Sect 14) Max Cable: 92.2% (1.2D + 1.0W 90° Wind) - Elev: 147 ft

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	
0.9D + 1.0Ev + 1.0Eh - Normal To Face	63.99	0.0081	0.0000	0.0130	
	75.28	0.0106	0.0000	0.0101	
	92.40	0.0135	0.0001	0.0117	
	101.17	0.0152	0.0001	0.0119	
	123.97	0.0220	0.0002	0.0273	
	158.02	0.0428	0.0001	0.0395	
	160.83	0.0447	0.0001	0.0399	
	166.79	0.0486	0.0001	0.0370	
	180.83	0.0574	-0.0003	0.0304	
	186.00	0.0611	0.0003	0.0540	
	195.00	0.0692	0.0000	0.0528	
	199.00	0.0728	0.0001	0.0534	
0.9D + 1.0W 110 mph Wind at 60° From Face	63.99	0.4810	0.4233	0.5545	
	75.28	0.5958	0.3950	0.5961	
	92.40	0.7535	0.4028	0.4527	
	101.17	0.8144	0.3200	0.3297	
	123.97	0.9533	0.2004	0.5871	
	158.02	1.3675	0.2619	0.6514	
	160.83	1.3992	0.2602	0.6170	
	166.79	1.4487	0.2605	0.6177	
	180.83	1.5066	0.2456	0.1426	
	186.00	1.5380	0.2294	0.5098	
	195.00	1.6143	0.2235	0.4976	
	199.00	1.6466	0.2234	0.4795	
0.9D + 1.0W 110 mph Wind at 90° From Face	63.99	0.7571	0.6045	0.8819	
	75.28	0.9348	0.7357	0.9134	
	92.40	1.1870	0.8180	0.7462	
	101.17	1.2883	0.6545	0.6343	
	123.97	1.5345	0.2985	0.9048	
	158.02	2.1255	0.1313	0.7746	
	160.83	2.1698	0.1107	0.9139	
	166.79	2.2489	0.0857	0.2425	
	180.83	2.3777	-0.0847	0.3871	
	186.00	2.4357	-0.0949	0.7668	
	195.00	2.5579	-0.0912	0.7806	
	199.00	2.6107	-0.0912	0.7642	

0.9D + 1.0W 110 mph Wind at Normal To Face	63.99	0.8159	-0.3000	0.9020	
	75.28	1.0143	-0.4752	0.9525	
	92.40	1.2766	-0.1485	0.8298	
	101.17	1.3844	0.0279	0.6617	
	123.97	1.6791	-0.2823	1.0151	
	158.02	2.3704	0.0370	1.4124	
	160.83	2.4279	0.0481	1.1032	
	166.79	2.5327	0.0703	1.4857	
	180.83	2.7227	0.1529	0.5857	
	186.00	2.8025	0.1322	1.1215	
	195.00	2,9635	0.1309	1.0284	
	199.00	3.0334	0.1312	1.0095	
1.0D + 1.0W 60 mph Wind at 60° From Face	63.99	0.1140	0.0832	0.1157	
	75.28	0.1394	0.0743	0.1353	
	92.40	0.1767	0.0741	0.1102	
	101.17	0.1917	0.0621	0.0855	
	123.97	0.2275	0.0344	0.1271	
	158.02	0.3159	0.0256	0.1199	
	160.83	0.3219	0.0245	0.1218	
	166.79	0.3316	0.0229	0.1551	
	180.83	0.3425	0.0238	0.0231	
	186.00	0.3477	0.0184	0.1008	
	195.00	0.3629	0.0169	0.0987	
	199.00	0.3692	0.0169	0.0930	
1 0D + 1 0W 60 mph Wind at 90° From Face	63 99	0 1302	0 1701	0 1354	
	75.28	0 1599	0 1598	0 1580	
	92 40	0 2033	0 1498	0 1300	
	101 17	0.2208	0 1312	0 1027	
	123.97	0.2604	0 1054	0 1362	
	158.02	0.3375	0.0655	0.0512	
	160.83	0.3417	0.0614	0.0959	
	166 79	0.3474	0.0535	0 1367	
	180.83	0.3483	0.0406	0.0743	
	186.00	0 3500	0.0353	0.0595	
	195.00	0.3593	0.0337	0.0671	
	199.00	0.3629	0.0336	0.0622	
1.0D + 1.0W 60 mph Wind at Normal To Face	63.99	0.1352	-0.0725	0.1349	
	75.28	0.1667	-0.0823	0.1536	
	92.40	0.2080	-0.0709	0.1200	
	101.17	0.2241	-0.0658	0.0874	
	123.97	0.2584	-0.0819	0.1203	
	158.02	0.3244	-0.0317	0.1475	
	160.83	0.3281	-0.0268	0.0575	
	166.79	0.3327	-0.0171	0.1930	
	180.83	0.3310	0.0130	0.0831	
	186.00	0.3315	0.0080	0.0721	
	195.00	0.3387	0.0067	0.0465	
	199.00	0.3414	0.0067	0.0410	
1.2D + 1.0Di + 1.0Wi 40 mph Wind at 60° From Face	63.99	0.1336	0.0565	0.1380	
	75.28	0.1730	-0.0791	0.2603	
	92.40	0.2174	-0.1382	0.1218	
	101.17	0.2272	0.0142	0.0541	
	123.97	0.2577	0.0277	0.1974	
	158.02	0.3584	0.0342	0.1459	
	160.83	0.3656	0.0329	0.1577	
	166.79	0.3787	0.0310	0.1133	
	180.83	0.4003	0.0287	0.0409	
	186.00	0.4087	0.0270	0.1257	
	195.00	0.4287	0.0251	0.1299	
	199.00	0.4373	0.0251	0.1259	

1 2D + 1 0Di + 1 0Wi 40 mph Wind at 90° From Face	63.99	0 1476	0 1575	0 1392
	75.28	0.1975	0.5251	0.2227
	75.20	0.1023	0.5251	0.2221
	92.40	0.2183	0.5469	0.1743
	101.17	0.2181	0.1435	0.0810
	123.97	0.2381	0.0906	0.1493
	158.02	0.3199	0.0264	0.0442
	160.83	0.3253	0.0262	0.1329
	166.79	0.3349	0.0263	0.0395
	180.83	0.3480	0.0280	0.0381
	186.00	0.3533	0.0274	0.0660
	195.00	0.3677	0.0253	0.0941
	199.00	0.3737	0.0253	0.0906
1.2D + 1.0Di + 1.0Wi 40 mph Wind at Normal From Face	63.99	0.1489	0.1021	0.1651
	75.28	0.1784	0.5336	0.0997
	92.40	0.1918	0.1649	0.1325
	101.17	0.1938	-0.0107	0.0384
	123.97	0.2008	-0.0939	0.1271
	158.02	0.2637	0.0018	0.1990
	160.83	0.2683	0.0040	0.0628
	166 79	0.2756	0.0088	0 1447
	180.83	0.2843	0.0000	0.0202
	186.00	0.2045	0.0223	0.0292
	100.00	0.2079	0.0190	0.1191
	195.00	0.2997	0.0160	0.0709
	199.00	0.3045	0.0160	0.0737
1.2D + 1.0Ev + 1.0Eh - Normal To Face	63.99	0.0082	0.0000	0.0130
	75.28	0.0105	0.0001	0.0101
	92.40	0.0134	0.0001	0.0117
	101 17	0.0152	0.0001	0.0119
	123 97	0.0219	0.0002	0.0274
	158.02	0.0210	0.0002	0.0204
	160.82	0.0447	0.0001	0.0300
	100.03	0.0447	0.0001	0.0400
	100.79	0.0466	0.0001	0.0371
	180.83	0.0574	-0.0003	0.0304
	186.00	0.0611	0.0003	0.0541
	195.00	0.0692	0.0000	0.0529
	199.00	0.0729	0.0001	0.0535
1.2D + 1.0W 110 mph Wind at 60° From Face	63.99	0.4835	0.4195	0.5714
	75.28	0.5993	0.3999	0.6018
	92.40	0.7603	0.4566	0.4551
	101 17	0.8212	0.4000	0.4001
	101.17	0.0212	0.0700	0.5210
	120.07	1 2757	0.2413	0.5010
	150.02	1.3737	0.1020	0.0011
	100.03	1.4070	0.1034	0.0200
	100.79	1.4579	0.2202	0.0000
	180.83	1.5105	0.2311	0.1465
	186.00	1.5483	0.2155	0.5145
	195.00	1.6252	0.2095	0.5018
	199.00	1.6577	0.2094	0.4836
1 2D + 1 0W 110 mph Wind at 90° From Face	63 99	0 7608	0 6284	0 8929
	75.28	0 9407	0 7727	0.9250
	92.40	1 2001	0.0133	0.7716
	101 17	1.2001	0.0100	0.6422
	101.17	1.5002	0.0990	0.0422
	123.91	1.0490	0.3200	0.0090
	158.02	2.1460	0.0674	0.7921
	160.83	2.1912	0.0598	0.9323
	166.79	2.2704	0.0434	0.2590
	180.83	2.4038	-0.1117	0.4008
	186.00	2.4631	-0.1214	0.7817
	195.00	2.5876	-0.1176	0.7951
	199.00	2.6414	-0.1175	0.7787

.2D + 1.0W 110 mph Wind at Normal To Face	63.99	0.8178	-0.2258	0.9114
	75.28	1.0142	-0.3180	0.9734
	92.40	1.2833	-0.0913	0.8439
	101.17	1.3953	0.1036	0.6667
	123.97	1.6923	-0.2882	1.0444
	158.02	2.3938	0.0170	1.4321
	160.83	2.4522	0.0296	1.1214
	166.79	2.5587	0.0541	1.5016
	180.83	2.7523	0.1443	0.5992
	186.00	2.8334	0.1240	1.1376
	195.00	2.9970	0.1228	1.0443
	199.00	3.0679	0.1230	1.0253

(((井)))		Guy	yed T	ow	er E	Base Des	sign		Dat 4/26/2	te 2022
		Customer Name:	SBA Co	mmun	icatior	ns Corp	TIA Standard:		TIA-2	22-H
		Site Name:					Structure Heig	ght (Ft.):	19	9
		Site Nmber:	NY0001	1-A-S	BA		Engineer Nam	ne:	M. AI R	ubaye
Tower Engineering Solution	S	Engr. Number:	128291				Engineer Log	in ID:		
Foundation Info Obtained from:	C	rawings/Calculations					2.0			1
Structure Type:		Guyed Tower					 ← →			
Analysis or Design?		Analysis		-	0.00					
Base Reactions (Factored):					\mathbf{k}	$\overline{}$			/	
Axial Load (Kips):	186.8	Shear Force (Kips):	1.5						#	3
Uplift Force (Kips):	0.0	Moment (Kips-ft):				99.0				
Foundation Geometries:					5.3	$ \downarrow $		10	#	7
		Mods required -Yes/No ?:	No					10	#	7
Diameter of Pier (ft.):	2.0	Depth of Base BG (ft.):	5.3							↑
Pier Height A. G. (ft.):	0.00	Thickness of Pad (ft):	2.80			• •				2.80
Length of Pad (ft.):	7	Width of Pad (ft.):	7					_		<u> </u>
						 	7.0		×	t — A
Final Length of pad (ft)	7.0	Final width of pad (ft):	7.0						_	0.0
Matavial Dreparties and Dealer Info								2.0		.
Material Properties and Readrinio:	2000	Charles Floretics Mandalana	20000	1				2.0		
Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	KSI						70
Vertical Data yield (KSI)	50	Tie (Steel yield (KSI):	00		7.0					1.0
Vertical Reparts I.	10	Tie / Surrup Size #:	3 12 0		7.0		6.0			vv
Qty. of Vertical Rebars.	10	The Spacing (III):	12.0			10 #	7			
	2	Linit Woight of Concrete:	150.0	ncf		10 #	7			
Pohar at the bottom of the concrete	s nad:	offit weight of concrete.	130.0	per						
Oty of Rehar in Pad (I):	10	Oty of Rebar in Pad (W):	10		<u> </u>					
	10		10				7.0	L	\longleftrightarrow	•
						I <				ا≼
Soil Design Parameters:										
Soil Unit Weight (pcf):	115.0	Soil Buoyant Weight:	52.6	Pcf						
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angl	e from Top of Pa	d:	30		
Ultimate Bearing Pressure (psf):	30000	Ultimate Skin Friction:	0	Psf	Angl	e from Bottm of	Pad:	25		
					Angl	e from Bottm of	Pad:	25		
Foundation Analysis and Design:	Uplift Str	ength Reduction Factor:	0.75	Comp	oressio	n Strength Reduc	tion Factor:	0.6		
Total Dry Soil Volume (cu. Ft.):	•	C C	114.65	Total	Dry So	il Weight (Kips):		13.18		
Total Buoyant Soil Volume (cu. F	t.):		0.00	Total	Buoya	nt Soil Weight (K	ips):	0.00		
Total Effective Soil Weight (Kips)	:		13.18	Weig	ht from	n the Concrete Bl	ock at Top (K):	0.00		
Total Dry Concrete Volume (cu. I	Ft.):		145.05	Total	Dry Co	oncrete Weight (k	(ips):	21.76		
Total Effective Concrete Weight	(CU. Ft.): (Kins)·		0.00 21 76	i otal Total	Buoya Vertica	nt Concrete Wei al Load on Base ()	gnt (Kips): Kins):	0.00 221 70		
	(11)3).		21.70	TOTAL	V CI LICO		p.j.	221.70	Load/	
Check Soil Capacities:									Capacity Ratio	
Calculated Maxium Net Soil Pressure	under th	e base (psf):	3915.0	<	Allov	wable Factored S	oil Bearing (psf):	18000	0.22	OK!
Calculated Foundation Allowable Axa	ail Capacit	y (Kips):	882.0	>	Desi	gn Factored Axia	l Load (Kips):	193	0.22	OK!

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4/26/2022

Date:

Check the capacities of Reinforceing Concrete:						
Strength reduction factor (Flexure and axial tension):	0.90	Streng	th reduction factor (Shear):	0.75		
Strength reduction factor (Axial compresion):	0.65	Wind L	.oad Factor on Concrete Design:	1.00		
					Load/ Canacity	
(1) Concrete Pier:					Ratio	
Vertical Steel Rebar Area (sq. in./each):	0.60		Tie / Stirrup Area (sq. in./each):	0.11		
Calculated Moment Capacity (Mn,Kips-Ft):	227.0	>	Design Factored Moment (Mu, Kips-Ft	3.8	0.02	OK!
Calculated Shear Capacity (Kips):	58.3	>	Design Factored Shear (Kips):	1.5	0.03	OK!
Calculated Tension Capacity (Tn, Kips):	324.0	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	591.9	>	Design Factored Axial Load (Pu Kips):	186.8	0.32	OK!
Moment & Axial Strength Combination(Pu/Pn+Mu/Mn):	0.33	OK!				
Pier Reinforcement Ratio:	0.013					
(2).Concrete Pad:						
One-Way Design Shear Capacity (L-Dir. Kips);	208.2	>	One-Way Factored Shear (L-Dir Kips):	0.0	0.00	OK!
One-Way Design Shear Capacity (W-Dir. Kips):	208.2	>	One-Way Factored Shear (W-Dir Kips)	0.0	0.00	OK!
Two-Way Design Shear Capacity (Kips):	843.3	>	Two-Way Factored Shear (Kips):	125.1	0.15	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0024	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0024		OK!
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	791.7	>	Moment at Bottom (L-Direct. K-Ft):	85.6	0.11	OK!
Lower Steel Pad Moment Capacity (W-Dir. Kips-ft):	791.7	>	Moment at Bottom (W-Dir. Kips-Ft):	85.6	0.11	OK!

							Last re ised on 1/3/2022		
(((井))			Guy An	chor A	naly s	is and	De sign	4/2	Date 26/2022
		Custo me	r Nam e:	SBA Com	munic ation	s Cor p	T A S tandard:	IA2	22
		Site Name	:				Structur e H eight (Ft.):		1
		Site Nmbe	er:	N 11	A SBA		Engineer Name:	M. A	l R ubay e
Tower Engineering Solutions	ŝ	Engr . Nu	m ber :	1221			Engine er Login D:		
Foundation Ino btained rom:	Dr	raingsCalc	ulations	Numbe	r o Anbors:	1 Set	Failure model: ew		
<u>Soil Design arametrs</u> :									
Soil nit Weight (pcf):	122.0	Soil uoant	Weight:	65.0	cf	Cohesion	of Soils (psf):		0
ltimate lateral pressure (psf):	2250	ltimate Si	n of water.	550	sf	Coefficien	t of Shear Friction		55 0 30
Conical Failure Angle from Top:	30	Failure An	gle from ottm	30	3)	cocyficien	t of shear thetion.		0.50
ate rial roe rties:			5 ,						
Concrete Strength (psi):	3000	ni t Weig	ht of Concrete:	150.0	psf	Horiontal	Rebar Y ield (psi):		60000
Shear Strength Reduction Factor:	0.75					Fleure Stre	eng th Reduction Factor:		0.9
A. Inner Anchors:									
Radius (ft.):	110								
. Design eactions (Factored):									
plift (ips:)	66.0	S	hear (ips)	50.8		Angle of f	orce resultant (Ø):		52.4
. Foundation Geometes:									
loc ase Dept h S. (ft):	8.0	loc wit	h/without toe	о		Water Tal	ble below grade (ft):		99.00
Length of Anchor loc (L ft .):	15.0	Width of A	Anchor loc:	4.0	ft.	Thicness o	of Anchor loc (ft.):		3.0
Concrete loc top of Anchor	0								
<u>1. Inner Ancors</u> Raius t.	110		/	1		Co	ncrete Block ΔW x ΔL x ΔT		
Ht. 8.0 Hwt.	99.0								
t. 15.0 t.	4.0			X-1					Δι
St 10	52.4			$\overline{\mathbf{A}}$	\sim		////		
Top bars	6								
ront bars	6								
Concete olume Cu. YE ac	6.6					S			
			Ни	/		\backslash			
							Top ars		
				Angle	(Ø)	/ /			
								-	п
						•			
			-	\checkmark					
				Front ar	· c	_			
				ront ar	J	9			
						•			
							W J		
							1		

TES Engr. Number:	128291	Page 2/3	Date: 04/26/22	
3. Foundation Analysis and Design:				
Total Dry Soil Volume (cu. Ft.):	617.87	Total Dry Soil Weight (Kips):	144.06	
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00	
Total Effective Soil Weight (Kips):	75.38	Weight of the Concrete Block at Top (Kips):	0.00	
Total Dry Concrete Volume (cu. Ft.):	180.00	Total Dry Concrete Weight (Kip):	27.00	
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00	
Total Effective Concrete Weight (Kips):	27.00	Weight Reduction Factor:	0.9	
Soil Uplift Strength Reduction Factor A:	0.75	Shear Strength Reduction Factor:	0.75	
Soil Uplift Strength Reduction Factor B:	0.9	-		
4. Check Soil and Foundation Capacities:				
Nominal Factored Uplift Resistance:	104.27	Kips > Design Uplift Force (Kips):	66.0	OK!
Ultimate Shear Friction Resistance at base:	5.88	Kips Ultimate Resistance Pressure:	2250.0	Psf
Factored Shear Resistance:	90.25	Kips > Design Shear Force (Kips):	50.8	OK!
5. Design Concrete Block:				
Rebar Size (#):	6	Wind Load Factor on Concrete Design:	1.00	
Qty. of the Rebar at top of the block:	3	Qty. of the Rebar in the front of the block:	3	
Area of Single Rebar (sq. in.):	0.44	Factor for concrete compression zone:	0.85	
One Way Shear due to Shear Force (Kips):	25.4	One Way Shear Capacity for shear (kips):	130.1	OK!
One Way Shear due to Uplift (Kips):	33.0	One Way Shear Capacity for uplift (kips):	126.2	OK!
Moment due to Shear Load (Kips-ft):	95.3	Flexural Capacity for Shear Load (Kips-ft):	261.3	OK!
Moment due to uplift Load (Kips-ft):	123.7	Flexural Capacity for uplift Load (Kips-ft):	190.0	ОК!
Ratio of Design Moment/Moment capacity:	0.65	Minimum ratio of rebar (top & front) :	0.12	OK!
Max. Ratio of Shear Force/Shear capacity:	0.26	ОК!		



SBA.NY00011-A RF EXPOSURE ASSESSMENT GPD Group

Site: SBA.NY00011-A Address: 5776 STID HILL ROAD NAPLES, NY 14512 County: ONTARIO Location: 42.741683°, -77.387861°

Abstract

Based on this assessment, RF exposure levels in accessible areas near this installation will be below FCC limits for the General Public.



Mathin Butch

Matthew J Butcher Registered Professional Engineer State of New York 085237

Warning: It is a violation of New York State Law, Article 145, Section §7209 for any person, unless acting under the direction of a licensed professional engineer, to alter this document in any way.

Matthew J Butcher matt@sublight.net

July 22, 2022



RF Exposure Assessment

Sublight Engineering PLLC (Sublight) has been asked to assess compliance with the Federal Communications Commission (FCC) Radio Frequency (RF) exposure limits near the proposed installation SBA.NY00011-A detailed below. GPD Group engaged Sublight and provided information for this assessment.

DRW NX LLC propose to add equipment at this location. The new installation will operate in the 6 GHz point-to-point microwave band.

This assessment reviewed RF exposure with respect to FCC limits in all areas near the antenna using worst-case computer modeling.

Based on this assessment, RF exposure levels in accessible areas near this installation will be below FCC limits for the General Public.

Installation Location

This assessment covers the pole mounted antenna detailed below:

 Site:
 SBA.NY00011-A

 Address:
 5776 STID HILL ROAD NAPLES, NY 14512

 County:
 ONTARIO

 Location:
 42.741683°, -77.387861°



Figure 1 Site Location



Antenna and Transmitter Information

The proposed DRW NX installation will install two microwave dish antennas on an existing 199 foot above ground level communications tower.

The antennas proposed are CommScope USX6-6W-6GR microwave dishes.

USX6-6W-6GR



1.8m | 6ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 5.925 – 7.125 GHz, grey, CPR137G flange

1.8°

Dimensions	
Diameter, nominal	1.8 m 6 ft
Electrical Specifications	
Operating Frequency Band	5.925 – 7.125 GHz
Gain, Low Band	38.3 dBi
Gain, Mid Band	38.8 dBi
Gain, Top Band	39.3 dBi
Boresite Cross Polarization Discrimination (XPD)	40 dB
Front-to-Back Ratio	. 76 dB
Beamwidth, Horizontal	1.8 °

Figure 2 USX6-6W-6GR Antenna Parameters

The antenna mount points are 125 feet above ground level. They are oriented at 124° and 305° relative to true north.

The FCC Application (File number 0010136014) indicates the 124° transmitter will operate at 6375.14 MHz with a power of 65.8 dBm EIRP or 0.5 Watt transmit power and the 305° transmitter will operate at 6315.14 MHz with a power of 64.8 dBm EIRP or 0.4 Watt transmit power.

Beamwidth, Vertical



RF Exposure Ray-Tracing Assessment

This RF Exposure assessment is based on power density modeling and a comparison with whole body exposure limits set by the Federal Communications Commission (FCC), as addressed most recently in 2019¹, and codified in their rules². The FCC has two limits: one for the General Public and a less conservative or higher limit for Occupational workers. An Occupational worker is defined as someone who through training and notification can understand and control their exposure to RF that they may encounter in the workplace. Everyone else is considered the General Public. In this assessment, both limits are considered but the stricter, General Public, limits are used to determine compliance.

This assessment uses maximum power to the antennas and conservative modeling techniques to determine the greatest possible extent of compliance boundaries. Outside the boundaries, exposure levels will always be below the limits. Most of the time, the actual power will be much less, likely by a large margin, so levels will be below exposure limits even within the boundaries.

FCC plane-wave equivalent power density limits for maximum permissible exposure are derived from the whole-body SAR limits and expressed in milliwatts per square centimeter (mW/cm²). FCC exposure limits are for continuous exposure spatial-averaged over the whole body and time-averaged, over 6 minutes for Occupational and 30 minutes for General Public limits. To account for changes in absorption relative to frequency, the limits are dependent on the frequency of the RF energy. This graph indicates that frequency relationship.



To calculate exposure and compliance boundaries, power density from each source (exposure value by frequency EV_{i}) is divided by the appropriate exposure limit (EL_{i}), creating an exposure ratio (ER_{i}).

$$ER_f = \frac{EV_f}{EL_f}$$

Ratios from each source are combined to determine a total exposure ratio *TER*. This ratio is used to determine exposure and compliance boundaries.

$$TER = \sum_{i=1}^{n} ER_i$$

² 47 CFR § 1.1310 Radiofrequency radiation exposure limits, US Code of Federal Regulations

¹ FCC-19-126 Proposed Changes in the Commission's Rules Regarding Human Exposure to Radiofrequency Electromagnetic Fields; Reassessment of Federal Communications Commission Radiofrequency Exposure Limits and Policies



RF power density levels are calculated using the IXUS Modeler³. IXUS employs a synthetic ray tracing method for panel and omnidirectional antennas and a conservative cylindrical envelope method for microwave dish (parabolic reflector / aperture) antennas.

The ray tracing method is an advanced computation method described in IEC 62232⁴. The power is summed from elemental sources representing the individual components of the antenna. These elemental sources are selected by an analysis of published manufacturer datasheets and antenna pattern information. Ray tracing algorithms typically overestimate RF field strength due to absorption of RF energy in the ground, building walls and other man-made structures.

The conservative cylindrical envelope method for microwave dish antennas from ETSI⁵ is used to determine worst-case RF power density. This technique is derived from common configurations and shown to be conservative based on measurement results from real systems. Dish antennas are extremely directional and almost all the RF energy is confined to a cylindrical beam in the direction the antenna is pointed, levels outside the beam are negligible.

IXUS combines results from all sources to create graphic 3D compliance boundaries around antennas.

Assessment Details

The following depictions graphically show compliance boundaries with respect to the antenna(s) and their surroundings. Yellow indicates areas that may exceed the FCC's General Public exposure limits while red indicates areas that may exceed the Occupational limits.

This installation is of such low power it produced no levels which exceed the Occupational or General Public limit, even right at the face of the antennas. To show the modeling, light blue areas indicate levels more than 5% or 1/20th of the General Public exposure limit, but which do not exceed that limit.

Because of the low power to the antennas for this installation there are no areas that exceed either the Occupational or General Public limit. For the same reason, RF exposure levels from this installation on the ground are effectively zero and unmeasurable with equipment designed for RF exposure assessments.

³ IXUS EMF Compliance Management Software version 4.3 (6) (Calculator 16.10) provided by Alphawave Mobile Network Products http://www.ixusapp.com.

⁴ IEC 62232:2017, Determination of RF field strength and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure, International Electrotechnical Commission, Geneva.

⁵ ETSI TR 102 457. Fixed Radio Systems; Evaluation of the ElectroMagnetic Field (EMF) radiated by Line-of-Sight (LoS) fixed radio stations using parabolic dish directional antennas. V2.1.0 (2018-09)



Figure 3 Exposure Modeling – All areas below exposure limits

General Public Boundary: 0 feet Horizontally from the antenna

SBA.NY00011-A RF Alerting Sign Placement



RF Safety Program

SBA Towers Inc., the tower owner, has an RF Exposure Safety Program for their transmitting sites. Part of this program requires the installation of signs near antennas where workers could access areas that exceed FCC RF exposure limits.

Because this installation will have no effect on RF exposure levels on or around the tower, there will be no need to update the existing RF Exposure Safety Program

Conclusions

This assessment concludes that RF exposure levels from this installation will be below FCC limits for the General Public in all areas.

This engineer hereby certifies that this wireless facilities, operated by DRW NX LLC, will comply with the RF exposure limits set forth by the FCC and as required by federal law.

If you have any questions on this assessment, please contact Sublight Engineering PLLC.

Engineering Statement

My professional engineer seal on this document certifies and affirms that:

I am registered as a Professional Engineer.

I am the principal of Sublight Engineering PLLC, in Arlington, Virginia.

I provide RF engineering services.

I am thoroughly familiar with the rules and regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC radiofrequency radiation exposure limits.

That I have prepared this RF Exposure Assessment and believe it to be true and accurate to the best of my knowledge.

July 22, 2022

Submitted: 07/19/2022 at 16:16:27 File Number: 0010136014

FCC 601

Main Form

FCC Application for Radio Service Authorization: Wireless Telecommunications Bureau Public Safety and Homeland Security Bureau

Approved by OMB

3060 - 0798 See instructions for public burden estimate

1) Radio Service Code: MG General Information	1a) E	xisting Radio Service Code:		
2) (Select only one) (NE - New MD - Modification AM - Amendment	NE) RO - Renewal Only RM - Renewal/Modification CA - Cancellation of License	AU - Administrative Update WD - Withdrawal of Application RL – Registered Location/Link	NT - Required Notific EX - Requests for Ex	ations tension of Time
3a) If this application is for as described in the ir	a <u>S</u> pecial Temporary Authorization structions. Otherwise enter ' <u>N/A</u> '	on (STA), enter the code and attach (Not Applicable).	the required exhibit	(N) <u>M S</u> N/A
3b) If this application is for 3 Refer to Rule 1.915 fo	Special Temporary Authority due to r an explanation of situations consic	an emergency situation, enter 'Y'; othe lered to be an emergency.	erwise enter 'N'.	() <u>Y</u> es <u>N</u> o
4) If this application is for a on file with the FCC.	an Amendment or Withdrawal, en	ter the file number of the pending a	oplication currently	File Number
5) If this application is for a Administrative Update If this is a request for I	a Modification, Renewal Only, Rene , enter the call sign of the existing F Registered Location/Link, enter the F	ewal/Modification, Cancellation of Lice CC license. FCC call sign assigned to the geograp	ense, or ohic license.	CallSign
6a) If this application is for requested authorizat	a New, Amendment, Renewal O ion expiration date (this item is op	nly, or Renewal/Modification, enter titional).	the	MM DD
6b) If this application is for the license used to p purposes or to meet	a Renewal Only or Renewal/Moo rovide service to customers (C), o the licensee's public interest/publ	dification and the license is a geogra or is the license used for private bus ic safety communications needs (P)	aphic area license, is iness (internal) ?	() <u>C P</u>
 Is this application "major applicable radio serv applies to certain site 	or" as defined in § 1.929 of the Co ice rules found in Parts 22 and 90 -specific applications. See the ins	mmission's Rules when read in con) of the Commission's Rules? (NOT structions for applicability and full te	junction with the E: This question only xt of § 1.929).	(N) <u>Y</u> es <u>N</u> o
8) Are attachments (other th	an associated schedules) being file	ed with this application?		(Y)Yes No

9) Is the Applicant exempt from FCC application fees?	(N) <u>Y</u> es <u>N</u> o						
10) Is the Applicant exempt from FCC regulatory fees?	(N) <u>Y</u> es <u>N</u> o						
 Does this application include a request for a Waiver of the Commission's Rule(s)? If 'Yes', attach an exhibit providing rule number(s) and explaining circumstances. 	(N) <u>Y</u> es <u>N</u> o						
12) Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	(N) <u>Y</u> es <u>N</u> o						
3) FCC Registration Number (FRN): 0021176847							
--	-------------------------	-------------------------	----------------------------------	---	----------------------------	------------------	----------------------------
4) Applicant/Licensee Legal Entity Type: (Select One)Individual ()Unincorporated Association	:) ()Tru	st ()Government	Entity ()Cor	ooration	(X)Limite	d Liability Company
)General Partnership ()Limited Partnersh	nip ()L	imited Li	ability Partnei	ship ()Con	sortium		
) Other:							
 5) If the Licensee name is being updated, is the upd party and for which proper Commission approva 	ate a resu al has no	ılt from tl t been r	ne sale (or tra received or p	nsfer of control) o roper notification	f the licens not provid	se(s) to ded?	() <u>Y</u> es <u>N</u> o
6) First Name (if individual):		MI: L	ast Name:				Suffix:
7) Legal Entity Name (if other than individual):		I					
Webline Holdings LLC							
3) Attention To:							
Network Services							
9) P.O. Box:	And/Or	20) St	reet Address:				
		40	0 Richards	Avenue, 3rd Fl	oor		
1) City:				22) State:		23) Zip Co	ode:
Norwalk				СТ		06854	
4) Telephone Number:			25) Fa	x:			
(203)286-4628							
6) E-Mail Address:							
fcc-info@weblineholdings.com							
7) Demographics (Optional)							
American Indian or Alaska Native	Ethni	city:)Hispani	or Latino		Ger	ider: Male	
American indian of Alaska Native	C) nispanio			(Jiviale	
)Asian	()Not Hisp	panic or Lating	0	()Female	
)Black or African-American							
Native Hawaiian or Other Pacific Islander							
jivalive hawallan of Other Facilic Islander							
)White			_				
al Party in Interest							
8) Name of Real Party in Interest of Applicant (If diffe	erent from		29) FC	C Registration Nu	mber (FRN	N) of Real Pa	arty in Interest:
BNI Services			002	1172671			
			·				
) Check here if same as Applicant.							
0) First Name:		MI:	Last Name	:			Suffix:
1) Company Name:							
2) Attention To:							
3) P.O. Box:	And	34) Str	eet Address:				
	/Or	01/01					
5) City:		1	36)	State:		37) Z	ip Code:
3) Telephone Number:			30) Eav				
8) Telephone Number:			39) Fax				

Reg	ulatory	Status
		0

41) This filing is for authorization to provide or use the following type(s) of radio service offering (enter all that apply):										
() <u>C</u> ommon Carrier	() <u>N</u> on-Commo	n Carrier	(X) <u>P</u> rivate, inte	rnal comm	unications () <u>B</u> roadcast	Services	() <u>B</u> and <u>M</u> anager
Type of Radio Service										
42) This filing is for auth	oriza	ation to provide th	ne following	g type(s) of radio ser	vice (choo	se all that apply):				
(X) <u>F</u> ixed	() <u>M</u> obile	() <u>R</u> adiolocation	() <u>S</u> atellite (sound) () <u>B</u> roadcas	t Servi	ces
43) Does the Applicant	prop	ose to provide se	rvice inter	connected to the pub	lic telepho	one network?			(N) <u>Y</u> es <u>N</u> o

Alien Ownership Questions (If any answer is 'Y", provide an attachment explaining the circumstances. In preparing the attachment, refer to the Main Form Instructions for the "Alien Ownership Questions".)

44) Is the Applicant a foreign government or the representative of any foreign government?	(Ν) <u>Y</u> es	<u>N</u> o
45) Is the Applicant an alien or the representative of an alien?	(Ν) <u>Y</u> es	<u>N</u> o
46) Is the Applicant a corporation organized under the laws of any foreign government?	(Ν) <u>Y</u> es	<u>N</u> o
47) Is the Applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?	(N) <u>Y</u> es	<u>N</u> o

FCC 601 – Main Form April 2022 - Page 3

48a) Is the Applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock (N) <u>Y</u>es <u>N</u>o is owned of record or voted by aliens or their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? 48b) If the answer to 47 or 48a is 'Y' select one of the choices below. The Applicant is exempt from the provisions of Section 310(b). It is not necessary to file a petition for declaratory ruling if the Applicant includes in the attachment required by Item 47 or Item 48a a showing that the requested license(s) is exempt from the provisions of Section 310(b). The Applicant has received a declaratory ruling(s) approving its foreign ownership, and the application involves only the acquisition of additional spectrum for the provision of a wireless service in a geographic coverage area for which the Applicant has been previously authorized. If checked, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that there has been no change in the foreign ownership of the Applicant since the issuance of its ruling. The Applicant: (i) has received a declaratory ruling(s) approving its foreign ownership, but is not able to make the certification specified immediately above; or (ii) is an "affiliate" of a Licensee or Lessee/Sublessee that received a declaratory ruling(s) under 47 CFR § 1.990(a) and is relying on the affiliate's ruling for purposes of filing this application as permitted under the affiliate's ruling and 47 CFR § 1.994(b). If checked, and if the Applicant received its declaratory ruling(s) on or after August 9, 2013, include in the attachment required by Item 47 or Item 48a the citation(s) of the Applicant's declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of its ruling and with the Commission's Rules. If checked, and if the Applicant received its declaratory ruling(s) prior to August 9, 2013, include in the attachment required by Item 48a a copy of a petition for declaratory ruling filed contemporaneously with the Commission to extend the Applicant's existing ruling(s) to cover the same radio service(s) and geographic coverage area(s) involved in the application. Alternatively, the Applicant may request a new declaratory ruling pursuant to Section 1.990(a) of the Commission's Rules, 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto). If checked, and if the Applicant is relying on an affiliate's ruling for purposes of filing this application, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of the named affiliate's ruling and with the Commission's Rules. The Applicant must also include a certification of compliance signed by the named affiliate or other qualified entity as specified in 47 CFR § 1.994(b). See Main Form Instructions for Items 47 or 48a, as applicable. The Applicant has not received a declaratory ruling approving its foreign ownership and is requesting a declaratory ruling under 47 CFR § 1.990(a) in a petition filed contemporaneously with the Commission. If checked, include in the attachment required by Item 47 or 48a a copy of the petition for declaratory ruling filed contemporaneously with the Commission pursuant to 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto).

Basic Qualification Questions				
49) Has the Applicant or any party to this application had any FCC station authorization, license or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission?	(Ν) <u>Y</u> es	<u>N</u> o
50) Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	(Ν) <u>Y</u> es	<u>N</u> o
51) Has any court finally adjudged the Applicant or any party directly or indirectly controlling the Applicant guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition?	(Ν) <u>Y</u> es	<u>N</u> o
Note: If the answer to any of 49-51 is 'Y', attach an exhibit explaining the circumstances.				

Aeronautical Advisory Station (Unicom) Certification

52) () I certify that the station will be located on property of the airport to be served, and, in cases where the airport does not have a control tower, RCO, or FAA flight service station, that I have notified the owner of the airport and all aviation service organizations located at the airport within ten days prior to application.

Broadband Radio Service and Educational Broadband Service Cable Cross-Ownership

53a) Will the requested facilities be used to provide multichannel video programming service?	() <u>Y</u> es <u>N</u> o
53b) If the answer to question 53a is 'Y', does the Applicant operate, control or have an attributable interest (as defined in 47 CFR § 27.1202) in a cable television system whose franchise area is located within the geographic service area of the requested facilities?	() <u>Y</u> es <u>N</u> o
Note: If the answer to question 53b is 'Y', attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1202 or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.		

Broadband Radio Service and Educational Broadband Service (Part 27)

54) (For EBS only) Does the Applicant comply with the programming requirements contained in 47 CFR § 27.1203?	() <u>Y</u> es <u>N</u> o
Note: If the answer to item 54 is 'N', attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1203 of the Commission's Rules or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.		
55) (For BRS and EBS) Does the Applicant comply with 47 CFR §§ 27.50, 27.55, and 27.1221?	() <u>Y</u> es <u>N</u> o
Note: If the answer to item 55 is 'N', attach an exhibit justifying a waiver of that rule(s). If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.		

For Applicants Who Participated in an Auction

56) Is the Applicant a qualifying rural wireless partnership or a member of a qualifying rural wireless partnership?	() <u>Y</u> es <u>N</u> o
Note: If the answer to item 56 is 'Y', attach an exhibit listing all members of the qualifying rural wireless partnership, including their FRN numbers.		

For Renewal Applicants

57) Operation/Performance Requirement Certification

[For a site-based license]: Applicant certifies that it is continuing to operate consistent with its most recently filed construction	() Yes No
notification (or most recent authorization, if no construction notification was required).	() <u>1</u> 03 <u>H</u> 0
[For a geographic license, commercial service - licensee in its initial license term with an interim performance	
requirement]: Applicant certifies that it has met its interim performance requirement, that over the portion of the license term	() <u>r</u> es <u>n</u> o
following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by	
its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide	
at least the level of service required by its final performance requirement through the end of the license term.	
For a geographic license, commercial service - licensee in its initial license term with no interim performance	
requirement]: Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide	() <u>T</u> es <u>N</u> O
at least the level of service required by its final performance requirement through the end of the license term. [Note: licensee	
must provide a showing demonstrating that the final performance requirement has been met, either separately in a timely	
application for notification of completion of construction, or as part of its renewal application, depending on the radio service.]	
[For a geographic license, commercial service - licensee in any subsequent term]: Applicant certifies that it continues to	
use its facilities to provide at least the level of service required by its final performance requirement through the end of any	() <u>r</u> es <u>n</u> o
subsequent license terms.	
For a geographic license, private systems - licensee in its initial license term with an interim performance	
requirement]: Applicant certifies that it has met its interim performance requirement, that over the portion of the license term	() <u>T</u> es <u>N</u> O
following the interim performance requirement, it continues to use its facilities to further its private business or public	
interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has	
met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its	1
final performance requirement through the end of the license term.	
For a geographic license, private systems - licensee in its initial license term with no interim performance	
requirement]: Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its	() <u>Y</u> es <u>N</u> o
private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the	
level of operation required by its final performance requirement through the end of the license term. [Note: licensee must	
provide a showing demonstrating that the final performance requirement has been met, either separately in a timely application	
for notification of completion of construction, or as part of its renewal application, depending on the radio service.]	1

[For a geographic license, private systems - licensee in any subsequent term]: Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.	() <u>Y</u> es <u>N</u> o
[For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after effective date of the rules]: Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent to the effective date of the rules.	() <u>Y</u> es <u>N</u> o
[For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings]: Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.	() <u>Y</u> es <u>N</u> o

Discontinuance of Service Certification

58) Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.	() <u>Y</u> es <u>N</u> o	
Note: If the response to either item 57 or item 58 is 'N', attach an exhibit that demonstrates that over the course of the license term, the Applicant provided and continues to provide service to the public, or operated and continues to operate the license to meet the Applicant's private business or public interest/public safety communications needs. This exhibit must include a detailed description of the Applicant's provision of service or, when allowed under the relevant service rules or pursuant to waiver, use of the spectrum for private business or public interest/public safety communications needs, during the entire license period and address, as applicable: 1) the level and quality of service provided by the applicant (e.g., the population served, the area served, the number of subscribers, the services offered); (2) the date service commenced, whether service was ever interrupted, and the duration of any interruption or outage; (3) the extent to which service is provided to rural areas; (4) the extent to which service is provided to qualifying tribal land as defined in 47 CFR § 1.2110(e)(3)(i); and (5) any other factors associated with the level of service to the public. The licensee may note in its exhibit: 1) any grant(s) of waiver or extension of a performance deadline or license renewal subject to meeting a performance requirement; or 2) if the final performance deadline and/or expiration date for the license accelerated because the licensee did not meet an interim performance requirement.			

Regulatory Compliance Certification [same for all]

59) Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.	() <u>Y</u> es <u>N</u> o
Note: If the response to item 59 is 'N', attach an exhibit explaining the circumstances and demonstrating why Applicant's license should be renewed.	

General Certification Statements

1)	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application.
2)	The Applicant certifies that grant of this application would not cause the Applicant to be in violation of any pertinent cross-ownership or attribution rules.* *If the Applicant has sought a waiver of any such rule in connection with this application, it may make this certification subject to the outcome of the waiver request.
3)	The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
4)	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to § 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under § 1.2002(c) of the rules, 47 CFR § 1.2002(c). See 47 CFR § 1.2002(b) for the definition of "party to the application" as used in this certification.
5)	The Applicant certifies that it either (1) has current required ownership data on file with the Commission, (2) is filing updated ownership data simultaneously with this application, or (3) is not required to file ownership data under the Commission's Rules.
6)	The Applicant certifies that the facilities, operations, and transmitters for which this authorization is hereby requested are either: (1) categorically excluded from routine environmental evaluation for RF exposure as set forth in 47 CFR § 1.1307(b); or, (2) have been found not to cause human exposure to levels of radiofrequency radiation in excess of the limits specified in 47 CFR §§ 1.1310 and 2.1093; or, (3) are the subject of one or more Environmental Assessments filed with the Commission.
7)	The Applicant certifies that it has reviewed the appropriate Commission Rules defining eligibility to hold the requested license(s) and is eligible to hold the requested license(s).
8)	The Applicant certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.
9)	The Applicant certifies that the Applicant and all of the related individuals and entities required to be disclosed on this application and FCC Form 602 (FCC Ownership Disclosure Information for the Wireless Telecommunications Services) are not person(s) who have been, for reasons of national security, barred by any agency of the Federal Government from bidding on a contract, participating in an auction, or receiving a grant. This certification applies only to applications for licenses for spectrum that is required by Sections 6103, 6401-6403 of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. §§ 309, 1413, 1451-1452, to be assigned by a system of competitive bidding under 47 U.S.C. § 309(j).

Signature 60)Typed or Printed Name of Party Authorized to Sign

First Name:			MI:	Last Name:		Suffix:	
Daniel				Walz			
61) Title:	Authorize	ed Representative					
Signature:					62) Date:		
Daniel	Walz				07/19/20	22	
FAILUR	E TO SIGN 1	THIS APPLICATION MAY RESULT IN DISM		OF THE APPLICATION AND FORFEITURE OF	F ANY FEE	S PAID.	
Upon grant of this license application, the Licensee may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in termination of the license. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of license requested in this application.							
WILLFUL FA § 1001) AND/ Title 47, § 503	WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, § 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, § 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, § 503),						

Technical Data Schedule for the Fixed Microwave and Microwave Broadcast Auxiliary Services (Parts 101 and 74)

Approved by OMB 3060 - 0798 See 601 Main Form Instructions for public burden estimate

Administrative Information

Aun			
1)	Is this application being filed as part of a pack?		(N) <u>Y</u> es/ <u>N</u> o
2a)	If the answer to Item 1 is 'Yes', enter the pack identification number (required if the pack):	ack identification number ha	s already been assigned by the
2b)	Pack Name:		
3)	Type of Operation (refer to instructions) Check One Only:	Station Class:	DEMS only: SMSA:
	 (X) Permanent Fixed Point to Point ()Multiple Address System (MAS) ()Temporary Fixed/Mobile ()Digital Electronic Message Service (DEMS) 	FXO	
6)	If this request is for a Modification, Renewal/Modification, or Amendment of a currently along with all minor Modification or Amendment requests filed since you applied for a major action was granted by the Commission, produce a cumulative effect that would	y pending application, does i new authorization or since th equal or exceed the criteria	t, () <u>Y</u> es/ <u>N</u> o ne last for a major filing?
7)	Has frequency coordination been completed for this application?		(

Frequency Coordinator Information

Complete Items 8 through 11 if not self-coordinated									
8) Frequency Coordination Number	9) Name of Frequency Coordinator	10) Telephone Number	11) Coordination Date						
220601COMSDS01	COMSEARCH	(703)636-5234	06/01/2022						

Broadcast Auxiliary Only

12a)	12b)	12c)
Facility Id of Parent Station:	Radio Service of Parent Station:	City and State of Parent Station Principal Community:
ent station, applicant certifies that	t it is a Broadcast Network Entit	ty 13) State of Primary Operation:
	12a) Facility Id of Parent Station: ent station, applicant certifies that	12a) 12b) Facility Id of Parent Station: Radio Service of Parent Station: ent station, applicant certifies that it is a Broadcast Network Entities

Control Point (Technical Point of Contact)

14)	15)	16)
Action	Location	Telephone
A/M	Street Address, City or Town, County/Borough/Parish, State	Number

FCC 601 Schedule I Supplement 1

Location Data

1) Action Requested: (A) Add Mod	Del	2) Location Number				
i) Action Requested. (A) Add Mod		1				
3) Location Description:	4) Area of Operation Code:		5) Location Name:			
T Transmit Location			FCC1050934			
6) ECC Antonno Structure Registration Number	ECC 854 Eilo Number er	NI/A ·				
1050934		IN/77.				
7) Latitude (DD-MM-SS.S):	NAD83	8) Longitude (DDD-MN	1-SS.S) :	NAD83		
42-44-30.1	(_N) <u>N</u> or <u>S</u>	077-23-16.3		(w) <u>E</u> or <u>vv</u>		
9) Street Address, Name of Landing Area, or Oth	ner Location Description:					
5776 Stid Hill Road (NY00011-A)						
10) City:	11) State:		12) County/Borough/Parish:			
Nanles	NY		ONTARIO			
12) Elevation of Site AMSL (motors)	14) Overall Ht AGL Wit	bout				
('a' in antenna structure example):	Appurtenances (me	eters)	Appurtenances (meters)			
649.4	('b' in antenna strue	cture example):	('c' in antenna structure	example):		
010.4	57.9		60.7			
16) Support Structure Type:						
17) Radius (km):						
18) Maximum Latitude (DD-MM-SS.S): Use for rectangle only (Northwest corner)	NAD83 () <u>N</u> or <u>S</u>	19) Maximum Longitud Use for rectangle only	le (DDD-MM-SS.S) : / (Northwest corner)	NAD83 () <u>E</u> or <u>W</u>		
20) Do you propose to operate in an area that re-	quires frequency coording	ation with Canada?		()Yes No		
				() <u>1</u> 00 <u>N</u> 0		
21) Description: (only for Area of Operation Code 'O')						
22) Would Commission grant of Authorization fo	r this location be an actio	n which may have a signif	ficant	()Yes No		
environmental effect? See Section 1.1307 o	of 47 CFR.	Sections 1 1209 and 1 12	011	N		
23a) If the site is located in one of the Quiet Zone	es listed in Item 23b of the	Instructions, provide the	date (mm/dd/yyyy) that the pro	per Quiet Zone		
entity was notified://						
23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application?						
24) Do you propose to operate in an area that requires frequency coordination with Maxima2						
				<u>, , , , , , , , , , , , , , , , , , , </u>		

FCC 601 Schedule I Supplement 1

Location Data

1) Action Requested: (A) Add Mod	Dol	2) Logotion Number			
T) Action Requested. (A) <u>A</u> dd <u>M</u> od		2) Location Number. 2			
3) Location Description:	4) Area of Operation Code:		5) Location Name:		
R Receive Location			ATC307075		
6) FCC Antenna Structure Registration Number	FCC 854 File Number or	N/A:			
7) Latitude (DD-MM-SS.S):	NAD83 (,) N or S	8) Longitude (DDD-MN	1-SS.S):	NAD83 (),,,) E or W	
43-12-40.6	(N/= -	078-17-51.3		(vv) <u> </u>	
9) Street Address, Name of Landing Area, or Oth	ner Location Description:				
10) Citv:	11) State:		12) County/Borough/Parish:		
			,,		
 13) Elevation of Site AMSL (meters) ('a' in antenna structure example): 	14) Overall Ht AGL Wit Appurtenances (me	thout eters)	15) Overall Ht AGL With Appurtenances (meters)		
106.6	('b' in antenna strue	cture example):	('c' in antenna structure e	example):	
190.0					
16) Support Structure Type:					
17) Radius (km):					
18) Maximum Latitude (DD-MM-SS.S): Use for rectangle only (Northwest corner)	NAD83 () N or S	19) Maximum Longitud	de (DDD-MM-SS.S): (Northwest corner)	NAD83 () E or W	
·····, (······,	() = - =	, and the second second	, (,	() =	
20) Do you propose to operate in an area that re	quires frequency coordina	ation with Canada?		() <u>Y</u> es <u>N</u> o	
21) Description: (only for Area of Operation Code	e 'O')				
	,				
22) Would Commission grant of Authorization for	or this location be an actio	n which may have a signi	ficant		
environmental effect? See Section 1.1307 of	of 47 CFR.	in which may have a sign		() <u>1</u> es <u>N</u> 0	
If 'Yes', submit an environmental assessment 23a) If the site is located in one of the Quiet Zone	nt as required by 47 CFR, as listed in Item 23b of the	Sections 1.1308 and 1.13 Instructions, provide the	311. date (mm/dd/vvvv) that the pror	per Quiet Zone	
entity was notified://					
23b) Has the Applicant obtained prior written con	sent from the proper Quie	et Zone entity for the same	e technical parameters that are	specified in this	
application?				() <u>Y</u> es <u>N</u> o	
24) Do you propose to operate in an area that requires frequency coordination with Mexico?					

FCC 601 Schedule I Supplement 1

Location Data

1) Action Deguasted: (A) Add Mod	Dal	2) Location Number				
1) Action Requested: (A) <u>A</u> dd <u>M</u> od	Del	2) Location Number: 3				
3) Location Description:	4) Area of Operation Code:		5) Location Name:			
R Receive Location			CCI1048240			
 FCC Antenna Structure Registration Number. 	FCC 854 File Number or	N/A:				
,						
	NADOO	0) Lanaituda (DDD MA	4.00.0)-	NADOO		
7) Latitude (DD-MIN-33.3).	(<u>N</u>) <u>N</u> or <u>S</u>	8) Longitude (DDD-Iviiv	1-35.5):	(<u>w</u>) <u>E</u> or <u>W</u>		
42-23-10.4		076-40-08.3				
9) Street Address, Name of Landing Area, or Oth	her Location Description:					
10) City:	11) State:		12) County/Borough/Parish:			
13) Elevation of Site AMSL (meters)	14) Overall Ht AGL Wit	hout	15) Overall Ht AGL With			
('a' in antenna structure example):	Appurtenances (me	eters)	Appurtenances (meters)	wampla).		
640.1		sture example).		example).		
16) Support Structure Type:						
17) Radius (km):						
18) Maximum Latitude (DD-MM-SS.S):	NAD83	19) Maximum Longitud	le (DDD-MM-SS.S):	NAD83		
Use for rectangle only (Northwest corner)	() <u>N</u> OF <u>S</u>	Use for rectangle only	(Northwest corner)	() <u>E</u> 01 <u>vv</u>		
20) Do you propose to operate in an area that re	quires frequency coordina	ation with Canada?		() <u>Y</u> es <u>N</u> o		
21) Description: (only for Area of Operation Cod	e 'O')					
)					
22) Would Commission grant of Authorization for	or this location be an actio	n which may have a signi	ficant	() Yes No		
environmental effect? See Section 1.1307 of	of 47 CFR.	Continue 4 4200 and 4 44		() <u>1</u> 00 <u>N</u> 0		
23a) If the site is located in one of the Quiet Zone	es listed in Item 23b of the	Instructions, provide the	date (mm/dd/yyyy) that the prop	per Quiet Zone		
entity was notified://						
23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application?						
24) Do you propose to operate in an area that requires frequency coordination with Mexico?						
L						

FCC 601 Schedule I Supplement 2 Transmit Location

Path Data

1) Transmit location name: FCC1050934	2) Path number: 1	
3) Action Requested: (A) <u>A</u> dd New Path	<u>M</u> odify Existing Path <u>D</u> elete Existing Path	
4a) For MAS or DEMS only, MAS or DEMS Sub-T	ype of Operation (Enter only one per path):	4b) Path code (Enter only one per path):
MAS or DEMS		MAS
()Fixed Two-way	()Multiple Two-way	 Master to Remote
Master-Remote/Nodal-User	Master-Remote/Nodal-User	() Remote to Master
MAS ONLY		DEMS
()Fixed One-way Outbound Master	 ()Multiple One-way Outbound Master 	()Nodal to User
		()User to Nodal
()Fixed One-way Inbound Master	()Mobile Master	

Transmit Antenna

5) Antenna Manufacturer:		6) Antenna Model Number:					
Commscope		USX6-6W					
7) Height to Center of Antenna AGL (meters):38.1	8) Beamwidth (degre 1.8	es):	9) Antenna Gain (dBi): 38.8				
10) Diversity Antenna Height AGL (meters):	11) Diversity Beamw	idth (degrees):	12) Diversity Antenna Gain (d	lBi):			
13) Elevation (Tilt) Angle (degrees): -1.0	14) Polarization: S		15) Azimuth to RX Location o Repeater (degrees)	r Pas 305. 4	sive I		
16) Periscope Reflector Dimensions (meters): Height: Width:		17) Periscope Reflector Se	eparation (meters):				
18) If the final receiver is located outside of the United States, enter the country in the space provided and attach an exhibit explaining circumstances.							
19) Does this path include passive repeater? (N) Yes No						<u>N</u> o	
20) Does this filing add or modify emanations in the 5925 - 7075 MHz band pointing within 2 degrees of the Geostationary Satellite Arc with EIRP greater than 65 dBm, or in the 12700 - 13250 MHz band pointing within 1.5 degrees of the Geostationary Satellite Arc with EIRP greater than 75 dBm?						<u>N</u> o	
If 'Yes', answer the following questions below and attach waiver request explaining circumstances.							
20a) Angular Separation between main beam and Geostationary Satellite Arc (degrees). Include Orbital Calculations in the wavier exhibit.							
20b) Does the Applicant certify that there is no alternative to the proposed transmission path?) <u>Y</u> es	<u>N</u> o	
20c) Does the Applicant certify that the proposed operation will not cause interference to an authorized satellite system?) <u>Y</u> es	<u>N</u> o	

Final Receiver

21) Receiver Location Name:								
ATC307075								
22) Receiver antenna manufacturer:		23) Receiver antenna n	nodel number:					
Commscope		USX6-6W						
24) Receiver Call Sign:								
25) Height to Center of RX Antenna AGL	26) RX Antenna Beam	width (degrees):	27) RX Antenna Gain (dBi):					
(meters): 79.3	1.8		38.8					
28) Diversity RX Antenna Height AGL (meters):	29) Diversity RX Anten (degrees):	ina Beamwidth	30) Diversity RX Antenna Gain (dBi):					
31) RX Periscope Reflector Dimensions (meters): Height: Width:		32) RX Periscope Reflect	tor Separation (meters):					

FCC 601 Schedule I Supplement 2 Transmit Location

Path Data

²
xisting Path
th): 4b) Path code (Enter only one per path):
MAS
() Master to Remote
() Remote to Master
DEMS
Master ()Nodal to User
()User to Nodal
1

Transmit Antenna

5) Antenna Manufacturer:	6) Antenna Model Number							
Commscope		USX6-6W						
7) Height to Center of Antenna AGL (meters):	8) Beamwidth (degre	es):	9) Antenna Gain (dBi):					
38.1	1.8		38.8					
10) Diversity Antenna Height AGL (meters):	11) Diversity Beamw	idth (degrees):	12) Diversity Antenna Gain (c	dBi):				
13) Elevation (Tilt) Angle (degrees):	14) Polarization:		15) Azimuth to RX Location of	or Pas	sive			
0.0	S		Repeater (degrees)	:123.	5			
16) Periscope Reflector Dimensions (meters): Height: Width:		17) Periscope Reflector Se	eparation (meters):					
18) If the final receiver is located outside of the U	nited States, enter the	country in the space provide	d and attach an exhibit explaini	ng cir	cumst	ances.		
19) Does this path include passive repeater?				(N) <u>Y</u> es	<u>N</u> o		
20) Does this filing add or modify emanations in t	he 5925 - 7075 MHz ba	and pointing within 2 degree	s of the Geostationary	(N) <u>Y</u> es	<u>N</u> o		
Geostationary Satellite Arc with EIRP greater than	n 75 dBm?		egrees of the					
If 'Yes' answer the following questions below	and attach waiver requ	est explaining circumstance	\$					
20a) Angular Separation between main beam and Geostationary Satellite Arc (degrees). Include Orbital Calculations in the wavier exhibit.								
20b) Does the Applicant certify that there is no alternative to the proposed transmission path?								
20c) Does the Applicant certify that the proposed	ed satellite system?	() <u>Y</u> es	<u>N</u> o				

Final Receiver

21) Receiver Location Name:						
CCI1048240						
22) Receiver antenna manufacturer:		23) Receiver antenna m	nodel number:			
Commscope		USX6-6W				
24) Receiver Call Sign:						
25) Height to Center of RX Antenna AGL	26) RX Antenna Beam	width (degrees):	27) RX Antenna Gain (dBi):			
(meters): 33.5	1.8		38.8			
28) Diversity RX Antenna Height AGL (meters):	29) Diversity RX Antenna Beamwidth (degrees):		30) Diversity RX Antenna Gain (dBi):			
31) RX Periscope Reflector Dimensions (meters Height: Width): n:	32) RX Periscope Reflec	tor Separation (meters):			

Transmit Location

1) Transmit Location Name:	2) Path Number:

3) Action Requested: () <u>A</u>dd New Passive Repeater <u>M</u>odify Existing Passive Repeater <u>D</u>elete Existing Passive Repeater

Passive Repeater Information

4) Passive Repeater Id: ()		5) Passive Repeater Se	equence Number: ()	
6) Passive Repeater Location Name:				
7) Passive Repeater Antenna Manufacturer:		8) Passive Repeater Antenna Model Number:		
9) Height to Center of Passive Repeater Antenna AGL (meters):	10) Back-to-Back RX Dish Gain (dBi):		11) Back-to-Back TX Dish Gain (dBi):	
12) Reflector Dimensions (meters): Height: Width:	13) Transmit Polarizatio	on:	14) Azimuth to RX Location or Next Passive Repeater:	

FCC 601 Schedule I

Supplement 4

Frequency Data

Transmitter Location Information

	1) Transmit Location Name:	FCC1050934	2) Path Number: 1
--	----------------------------	------------	-------------------

Frequency Information

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	65.8	30M0D7W (A)	183000.0	128QAM
	New 006375.14000000						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	65.8	30M0D7W (A)	157000.0	64QAM
	_{New} 006375.14000000		-				
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N		0	

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod) New 006375.14000000		0.00030	65.8	30M0D7W (A)	133000.0	32QAM
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA	Q	CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	65.8	30M0D7W (A)	107000.0	16QAM
	New 006375.14000000						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod) New 006404.79000000		0.00030	65.8	30M0D7W (A)	183000.0	128QAM
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA	Q	CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	65.8	30M0D7W (A)	157000.0	64QAM
	New 006404.79000000						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod) New 006404.79000000		0.00030	65.8	30M0D7W (A)	133000.0	32QAM
	11) Transmitter Mar	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA	Q	CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	65.8	30M0D7W (A)	107000.0	16QAM
	New 006404.79000000						
	11) Transmitter Ma	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

Frequency Information

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod) New 006315.84000000		0.00030	64.8	30M0D7W (A)	183000.0	128QAM
	11) Transmitter Mar	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	64.8	30M0D7W (A)	157000.0	64QAM
	New 006315.84000000						
	11) Transmitter Mar	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	Ν			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod) New 006315.84000000		0.00030	64.8	30M0D7W (A)	133000.0	32QAM
	11) Transmitter Mar	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA	Q.	CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	64.8	30M0D7W (A)	107000.0	16QAM
	New 006315.84000000						
	11) Transmitter Ma	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod) New 006345.49000000		0.00030	64.8	30M0D7W (A)	183000.0	128QAM
	11) Transmitter Mar	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA	Q	CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	64.8	30M0D7W (A)	157000.0	64QAM
	New 006345.49000000						
	11) Transmitter Ma	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod) New 006345.49000000		0.00030	64.8	30M0D7W (A)	133000.0	32QAM
	11) Transmitter Mar	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	Existing (if mod)		0.00030	64.8	30M0D7W (A)	107000.0	16QAM
	New 006345.49000000						
	11) Transmitter Ma	nufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control			
	SAF TEHNIKA		CFL SPRINT MXM REPEATER	N			

Attachment(s):

Туре	Description	Date Entered
0	Supplemental Showing	07/19/2022
АМ	Certification	07/19/2022



Town of South Bristol 6500 Gannett Hill Road - West Naples, New York 14512-9216 (716) 374-6341

Zoning Board of Appeals

September 3, 1996

Regarding the application of Jeffrey Pfeiffer/T J Communications, 6350 Bills Road, Naples, New York 14512, requesting a modification to an existing special use permit and a variance to Section 170-36(J)(2)(b) of the Zoning Ordinance to allow for the modification and reinforcement of an existing radio tower located on Stid Hill, Tax Map #177.00-1-7.200.

Owner of Record: Barbara Echter Zoned: R-2 Application No. 96-054Z

The Board finds:

1. That the Zoning Board of Appeals has the authority to modify the requirements of Section 170-36 because of changes in technology since the Tower District language was written.

2. That new technology requires the provision for 12 foot long antenna standoffs and may also require an increase in height from the present allowed 180 feet to a maximum of 199 feet allowed by the Zoning Law.

3. That because these antenna modifications require a strengthening of the mast structure such strengthening is permitted provided that the diameter of the resulting mast not exceed 30 inches.

4. That this is a Type II action under SEQR as this is a modification of an existing structure.

5. That the proposed use is consistent with the general development plans of the town because of the public use and essential services clause.

6. That the proposed use is consistent with the purposes of the Zoning Law (Section 1.2), such as the promotion of the health, safety and general welfare of the Town, and the conservation of the natural beauty of the land, streams, forests and hills as the subject tower was previously approved, currently exists, and there has been no objections expressed by the public.

7. That the location, size and use of the structure and the use of the land are such that they will be in harmony with the orderly development and the intent of the zoned district as the existing tower was allowed by special use permit for public use and essential services.

8. That the operation of the use is not objectionable to the users of adjacent properties as no one expressed opposition during the public hearing and no written letters of objection were received by the Zoning Board of Appeals.

9. That all applicable conditions of SEQRA (the State Environmental Quality Review Act) have been met.

10. That all conditions for Land Conservation Districts have been met, where applicable.

The Board bases its findings on:

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1. An application form received by the Zoning Board of Appeals dated August 14, 1996.

2. Testimony given by the applicant during the public hearing held on August 28, 1996.

NOW, THEREFORE, based on the above findings, the Board grants the following:

1. A tower height of 199 feet.

- 2. Standoffs of 12 feet.
- 3. Modification of the structure up to 30 inches in diameter.

BE IT RESOLVED, that the applicant's request to modify and reinforce an existing radio tower be GRANTED.

ZONING BOARD OF APPEALS Arn NU Anne Galbraith Chairperson

/drm cc: CEO file B. Collins-Town Clerk



Federal Aviation Administration Air Traffic Airspace Branch, ASW-520 2601 Meacham Blvd. Fort Worth, TX 76137-0520 Aeronautical Study No. 2010-AEA-1411-OE Prior Study No. 2001-AEA-1373-OE

Issued Date: 04/09/2010

Clinton Papenfuss SBA Towers 5900 Broken Sound Parkway NW Boca Raton, FL 33487

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Antenna Tower NY 00011-A	
Location:	South Bristol, NY	
Latitude:	42-44-30.06N NAD 83	
Longitude:	77-23-16.30W	
Heights:	199 feet above ground level (AGL)	
-	2228 feet above mean sea level (AMSL)	

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking and/or lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 K Change 2.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study included evaluation of a structure that exists at this time. Action will be taken to ensure aeronautical charts are updated to reflect the most current coordinates, elevation and height as indicated in the case description.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (718) 553-4542. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-AEA-1411-OE.

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Signature Control No: 694874-124625623

(DNE)

Katie Venticinque Specialist

Attachment(s) Frequency Data

cc: FCC

cc: NACO w/map 36-002197

Frequency Data for ASN 2010-AEA-1411-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
806	824	MHz	500	w
824	849	MHz	500	w
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

ULS License

Microwave Industrial/Business Pool License - WRTT554 - Webline Holdings LLC

Call Sign	WRTT554	Radio Service	MG - Microwave Industrial/Business Pool
Status	Active	Auth Type	Regular
Dates			
Grant	07/22/2022	Expiration	07/22/2032
Effective	07/22/2022	Cancellation	
Control Points			
None			
Licensee			
FRN	0021176847	Туре	Limited Liability Company
Licensee			
Webline Holdings	LLC	P:(203)286-4628	
40 Richards Avenu Norwalk CT 0685	ue, 3rd Floor 4	E:fcc-info@weblir	eholdings.com
ATTN Network Ser	vices		
Contact			
Microwaya Data			
	Dermanant Fixed Daint to Daint	Station Class	EVO Operational Eived
Орег туре		Station Class	
Ownership and	Qualifications		
Radio Service Typ	e Fixed		
Regulatory Status	Private Comm Intere	connected No	
Alien Ownership The Applicant ans	• wered "No" to each of the Alien	Ownership questions.	
Basic Oualificati	ons		
The Applicant ans	wered "No" to each of the Basic	Qualification questions.	
Demographics			
Race			
Ethnicity		Gender	

ULS License Microwave Industrial/Business Pool License - WRTT554 - Webline Holdings LLC

Locations Summary

Call Sign	WRTT554	Radio Service	MG - Microwave Industrial/Business Pool
3 Total Locations 10 Locations per Su	immary Page		
Fixed Transmit I	ocation 1: FCC1050934		
Transmit Location 5776 Stid Hill Roa Naples, NY ONTARIO County	d (NY00011-A)	Coordinates	42-44-30.1 N, 077-23-16.3 W
Site Elevation (AMSL)	618.4m	Height w/o Appurtenances	57.9m
ASR #/File #	1050934	Height w/ Appurtenances	60.7m
Support Structure Type	LTOWER - Lattice Tower		
NEPA Required			
Quiet Zone Notification Date		Quiet Zone Consent	
Is coordination with	th Canada required?		
Is coordination with	th Mexico required?		
Special Conditions	None		
Other Locations			
Location 2 : ATC	307075		
Туре	Receive Location	Coordinates	43-12-40.6 N, 078-17-51.3 W
Site Elevation (AMSL)	196.6m	Height w/o Appurtenances	
ASR #/File #	N/A	Height w/ Appurtenances	
Support Structure Type			
NEPA Required			
Quiet Zone Notification Date		Quiet Zone Consent	
Is coordination with	th Canada required?		
Is coordination with	th Mexico required?		

Special None Conditions

Location 3 : CCI1048240

Site Elevation 640.1m (AMSL) ASR #/File # N/A

Support Structure Type

NEPA Required

Quiet Zone Notification Date

Is coordination with Canada required?

Is coordination with Mexico required?

Special None Conditions

Height w/o Appurtenances

Height w/ Appurtenances

Quiet Zone Consent

3 Total Locations

10 Locations per Summary Page

ULS License Microwave Industrial/Business Pool License - WRTT554 - Webline Holdings LLC Paths Summary

Call Sign WRTT554 Radio Service MG - Microwave Industrial/Business Pool Transmitter 42-44-30.1 N , 077-23-16.3 W FCC1050934 Coordinates 2 Total Paths 10 Paths Per Summary Page Path 1 - Fixed Point-to-Point Rec. Call Sign **Location Name** Coordinates ATC307075 43-12-40.6 N , 078-17-51.3 W EIRP Path Frequencies Tolerance ATPC **Emission Designators** 006375.14000000 0.00030% 30M0D7W 65.8dBm No Baseband Digital Rate (kbps): 183000.0 Digital Modulation Type: 128QAM Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER 006375.14000000 0.00030% 65.8dBm 30M0D7W No Baseband Digital Rate (kbps): 157000.0 Digital Modulation Type: 64QAM Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER 006375.14000000 0.00030% 65.8dBm 30M0D7W No Baseband Digital Rate (kbps): 133000.0 Digital Modulation Type: 32QAM Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER 006375.14000000 0.00030% 65.8dBm No 30M0D7W Baseband Digital Rate (kbps): 107000.0 Digital Modulation Type: 16QAM Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER 006404.79000000 0.00030% 65.8dBm 30M0D7W No Baseband Digital Rate (kbps): 183000.0 Digital Modulation Type: 128QAM Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER 006404.79000000 0.00030% 65.8dBm No 30M0D7W Baseband Digital Rate (kbps): 157000.0 Digital Modulation Type: 64QAM Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER 006404.79000000 0.00030% 30M0D7W 65.8dBm No Baseband Digital Rate (kbps): 133000.0 Digital Modulation Type: 32QAM Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER 006404.79000000 0.00030% 65.8dBm No 30M0D7W

Baseband Digital Rate (kbps): 107000.0

Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER

Path 2 - Fixed Point-to-Point

•	Rec. Ca	ll Sign		
Location Name CCI1048240	Coordinates 42-23-10.4 N , 076-40-08.3 W			
Dath Fragmansias	Televence	EIDD	ATDO	Emission Designations
006315.84000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 183000.0 Digital Modulation Type: 128QAM
Transmitter Manufacturer:	SAF TEHNIKA Mo	del: CFL SPRIN	T MXM REPE	ATER
006315.84000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 157000.0 Digital Modulation Type: 64QAM
Transmitter Manufacturer:	SAF TEHNIKA Mo	del: CFL SPRIN	T MXM REPE	ATER
006315.84000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 133000.0 Digital Modulation Type: 32QAM
Transmitter Manufacturer:	er: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER			
006315.84000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 107000.0 Digital Modulation Type: 16QAM
Transmitter Manufacturer:	SAF TEHNIKA Mo	del: CFL SPRIN	T MXM REPE	ATER
006345.49000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 183000.0 Digital Modulation Type: 128QAM
Transmitter Manufacturer:	SAF TEHNIKA Mo	del: CFL SPRIN	T MXM REPE	ATER
006345.49000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 157000.0 Digital Modulation Type: 64QAM
Transmitter Manufacturer:	ransmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER			
006345.49000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 107000.0 Digital Modulation Type: 16QAM
Transmitter Manufacturer:	Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER			ATER
006345.49000000	0.00030%	64.8dBm	No	30M0D7W Baseband Digital Rate (kbps): 133000.0 Digital Modulation Type: 32QAM

Transmitter Manufacturer: SAF TEHNIKA Model: CFL SPRINT MXM REPEATER



Town of South Bristol 6500 West Gannett Hill Road Naples, NY 14512-9216

Zoning Board of Appeals

July 27, 2022

Application #:	2022-0020
Owner of Record:	SBA Towers LLC
Property Address:	5776 Stid Hill Road
Tax Map #:	177.00-1-7.200
Zoned:	R5 (Residential 5 Acre)

Applicant DRW NX LLC requested a special use permit to:

Ground scope: Install equipment cabinet within six-foot by ten-foot lease area within the tower compound and new 100 amp electrical service.

Tower scope: Install two six-foot microwave dishes, four SAF radios, associated cabling and associated mounting equipment.

Findings:

- 1. SEQR paragraph 617.5 (c)(9) for six by ten cabinet is a Type II action and requires no further review. The tower additions is an unlisted action.
- 2. The use is consistent with the Comprehensive Plan of our Town.
- 3. The use is consistent with the purposes of the zoning law of our town.
- 4. The use will not adversely affect the character of the neighborhood.
- 5. The use will not be detrimental to nearby properties.
- 6. The use will not have an adverse impact on the physical or environmental conditions of the neighborhood.
- 7. This application does meet the special use requirements in §170-36 Antenna Towers.

Board bases its findings on:

- 1. Zoning Board of Appeals application dated June 27, 2022;
- 2. DRW NX LLC site plan dated June 7, 2022;
- 3. SBA Towers Inc FCC antenna structure registration dated April 27, 2010;
- 4. Tower structural analysis report dated April 26, 2022;
- 5. Radio frequency exposure assessment dated July 22, 2022;
- 6. Amended Special Use Permit dated September 3, 1996;
- 7. DRW NX LLC FCC license application; and
- 8. Testimony given at the Board's July 27, 2022 meeting.

BE IT RESOLVED that the applicant's request for a special use permit is hereby granted on the condition of receiving their FCC license before construction.

Sincerely.

Thomas J. Burgie, Chairman