

# MIAMI BEACH

**Neighborhood/Community Affairs Committee Meeting**  
**City Hall, Commission Chambers, 3rd Floor, 1700 Convention Center Drive**  
**March 19, 2019 - 2:00 PM**

Commissioner Micky Steinberg, Chair  
Commissioner Michael Góngora, Vice-Chair  
Commissioner Joy Malakoff, Member  
Commissioner John Elizabeth Alemán, Alternate

Kathie G. Brooks, Liaison  
Gedel Merzius, Support Staff

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A meeting of the Neighborhood/Community Affairs Committee (the "Committee") was held on Tuesday, March 19, 2019, at 2:00 p.m. in the Commission Chambers, 3rd Floor of City Hall. Commissioners in attendance: Micky Steinberg, Michael Góngora, Joy Malakoff, John Elizabeth Aleman and Mark Samuelian. Members from the Administration and the public were also in attendance.

The meeting started at 2:01 pm.

Tom Curitore, Assistant Director, Code Compliance gave an update of what Code Compliance has been doing in certain areas in the North Beach neighborhood.

**DIRECTION:** Item to be discussed quarterly, next discussion to be during the June 19, 2019 NCAC meeting per the request Commissioners Steinberg and Góngora.

11. **DISCUSSION REGARDING THE A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE RECOMMENDATION OF THE NEIGHBORHOOD/COMMUNITY AFFAIRS COMMITTEE AT ITS OCTOBER 31, 2018 MEETING RELATING TO "5G" TECHNOLOGY, AND DIRECTING THE CITY ADMINISTRATION TO: (1) AUTHORIZE THE CITY'S INDEPENDENT SEWER SYSTEM EXPERT, HAZEN AND SAWYER, TO PREPARE A RESPONSE TO THE REBUTTAL REPORT BY CABLE RUNNER INTERNATIONAL (TO HAZEN AND SAWYER'S APRIL 20, 2018 RECOMMENDATION AGAINST THE USE OF THE CITY'S SEWER SYSTEM TO INSTALL A CABLE NETWORK THROUGHOUT THE CITY); (2) RETAIN A STORMWATER SYSTEM EXPERT TO CONDUCT A STUDY ON THE FEASIBILITY OF USING THE CITY'S STORMWATER SYSTEM TO INSTALL FIBER OPTIC CABLE (AS PROPOSED BY CABLE RUNNER), AND AUTHORIZE CABLE RUNNER TO PAY THE COSTS ASSOCIATED WITH SUCH STUDY; (3) RETAIN A CONSULTANT WITH APPROPRIATE EXPERTISE TO EVALUATE THE VARIOUS "5G" TECHNOLOGIES AND TO PROVIDE RECOMMENDATIONS TO THE CITY COMMISSION ON HOW TO QUICKLY AND EFFICIENTLY OBTAIN "5G" INFRASTRUCTURE, AND TO COMPARE THE VARIOUS TECHNOLOGIES, INCLUDING BUT NOT LIMITED TO REVIEWING THE "SMART CITY" PROPOSAL SUBMITTED BY JOHNSON CONTROLS; CONSULT WITH THE CITY'S EXPERT, OUTSIDE COUNSEL ON TELECOMMUNICATIONS REGARDING THE INDUSTRY, THE TECHNOLOGY, AND THE PROPOSAL, INCLUDING A REVIEW OF POSSIBLE STATE PREEMPTION**

January 16, 2019 - R7 D

Sponsored by Commissioner Alemán

Public Works

Commissioner Alemán stated that the last time this item was discussed there was an agreement that it would be a discussion about fiber. Frank Quintana, Information Technology Division Director, spoke about the state of infrastructure and connectivity throughout the city.

Mr. Quintana stated that currently the City uses an assortment of internet service providers and other third-party fiber vendors. Last year there was an RFP that was advertised for internet services and LAN services that was awarded to two vendors. The City today does not own a great deal of fiber, but relies, a large part on outsourcing companies, such as AT&T and Hotwire, to provide connectivity between sites. Other City sites use leased fiber. The primary data center of the City is in Downtown Miami at a Tier 4 location that provides security and service offerings that would otherwise not be provided elsewhere. Mr. Quintana shared that some of the concerns shared by the Information Technology Department include some of the initiatives, such as the street lighting initiative with Public Works, and other smart City initiatives. In terms of placing a 5G item on the beach, Mr. Quintana stated that there isn't any footprint in order to

properly support. Mr. Quintana stated that the Public Works Department has engaged, via an RFP, a consultant for street lighting specifically where the City could leverage third party vendors to provide the services and the presence throughout the City as needed. Mr. Quintana added that the City should be able to provide this type of connectivity, but currently the City is not at a specific point in planning to dictate which one specific solution. The more pressing issue is figuring out what the need is, how the City would use it, and how it would grow into future use.

Commissioner Alemán asked how much the City spends on fiber technology. Mr. Quintana stated that aggregately the City spends about \$500,000 a year on all services and carriers.

Commissioner Alemán asked can the street lighting program be accommodated on that \$500,000 spend or is that amount going to grow. Mr. Quintana responded that the \$500,000 is the current spend, not future services. The amount would continue to grow depending on how we choose to address the infrastructure piece of the project whether we do a partial build out internally leveraging the solution.

Commissioner Góngora stated that he is not an expert on the subject of this item but if it is safe, free and can save us money it is an item that he would love to explore.

Roy Coley, Director, Public Works stated that approximately a year ago Cable Runner suggested that the City install their product in the wastewater system to facilitate fiber in the City. The City hired an outside expert, Hazen and Sawyer, to evaluate that proposal and their ultimate result was not favorable for installing the product within the wastewater system for a list of reasons. The lists of reasons were supplied to the Committee in April 2018. Since then, the last discussion about the cable runner was regarding installing the product in the stormwater system and bringing in the outside expert Hazen and Sawyer to do a similar evaluation as they did for the waste water system.

Commissioner Alemán stated that the Hazen and Sawyer report made some conclusions that Cable Runner wanted to dispute and have a conversation about. Cable Runner received approval to do so, but the issue was never resolved. Commissioner Aleman stated that there are systems that are retiring leave all the old pipes that can be used to channel the City.

Ralph Andrade, Cable Runner's representative stated that the City needs fiber, and that there are projects that are coming up in the future that will require fiber and will cost more money to lease that fiber. Traditionally, fiber is implemented in cities by ripping up and disrupting resident quality of life, Mr. Andrade is offering that an underground infrastructure system be implemented to lay the fiber. Mr. Andrade requested that specific studies be done to determine which sets of infrastructures are suitable to lay the fiber. The benefits to the City are obvious. Mr. Andrade stated that the Cable Runner is offering free strands of fiber which would allow the City to own its network.

Commissioner Góngora stated that he is interested in addressing two NCAC recommendations. The first recommendation was the authorization for the independent sewer system expert, Hazen and Sawyer, to respond to the rebuttal report at the cost of

Cable Runner. Commissioner Góngora stated that the Committee is authorizing the Administration to conduct, with a storm water system expert, a study to determine whether it would be good fit and safe for running cable through the stormwater system. Mr. Andrade agreed to both of the requirements.

Commissioner Alemán stated that she wanted to address the third recommendation of retaining a consultant with the appropriate expertise to evaluate what the information that is given in comparison to another partner, Johnson Controls, who is assisting the Committee with the lighting system roll out. Commissioner Alemán stated that there is a need for someone independent to look at both proposals and whatever else is out on the market.

Commissioner Steinberg stated that she believed that there was a need to just start with items one and two and make informed decisions from what the experts inform the committee.

Mr. Andrade stated that it is his understanding that Johnson Controls has submitted a joint proposal with the fiber provider, Hotwire. Mr. Andrade expressed that it is questionable of Johnson Controls to be unbiased regarding this matter. Mr. Andrade suggested that all options be reviewed to see what is best for the City. The study Cable Runner is proposing should not take more the one month to 60 days.

Commissioner Gongora asked how much the scope of service would cost to hire the expert recommended. Mr. Coley responded that approximately \$15,000 as spent on the sewer evaluation from Hazen and Sawyer. Mr. Coley assumes another evaluation would cost about \$15,000.

Mr. Andrade stated Cable Runner would be happy to pay for another evaluation.

Mike Llorente, Llorente & Heckler, P.A., 801 Arthur Godfrey Road, and a representative of Johnson Controls stated that in 2016, the City of Miami Beach Public Works Department conducted a lighting survey. Only 18% of the City's roadways had the proper amount of luminescence and uniformity. Instead of putting out an RFQ for a traditional lighting program, the Public Works Department decided to put out an RFQ for a Smart City lighting program. A Smart City lighting program means that some level of fiber will be deployed, and some street lights can be converted into smart street lights. The lights would have the capability of integrating smart technology that are used for traffic management, parking, police, security, and etc. Last year, Forbes magazine noted that smart street lighting is being recognized by many city leaders as a first step toward the development of a Smart City. By 2026, there will be 27 million connected street lights deployed globally. Johnson Controls was tasked with creating a lighting master plan for different areas of a city and present options to cities for fiber connectivity. Mr. Llorente also stated that Cable Runner is not technology that Johnson Controls is familiar with. To their knowledge, it has not been used for any of the dozen smart street light programs that are currently available. Johnson Controls is in the early stages of design and implementation. Johnson Controls is also currently working on putting together a preliminary network installation maps that show proposed fiber routes

with proposed costs. Johnson Controls has not been directed to fully design or implement a plan, however, they have been tasked with taking a preliminary look at the City's smart city lighting plan.

Commissioner Aleman asked how the Hotwire fiber will be installed once they come back with a plan to implement fiber throughout the City of Miami Beach in order to support the Smart City lighting plan. Commissioner Aleman also asked if it would involve digging up trenches into the street and laying fiber into the streets.

Mr. Llorente responded he is not an expert in fiber installation or 5g technology, but his understanding is that any type of fiber deployment will require some level of trenching even if it is done through the sewer system. One of the challenges of installing fiber through the sewer system is that at some point the fiber needs to be run above ground into a light pole.

Commissioner Aleman stated that traditional method of laying fiber involves trenching in the public right of way. Commissioner Aleman suggested exploring any option that can deploy fiber another way that does not involve ripping up the streets.

Commissioners Samuelian asked if the scope of Johnson Controls included the review of best practices and what other cities were doing. Mr. Llorente responded that the scope would involve looking at the best practices elsewhere which would be done in partnership with Hotwire. The RFQ that was put out was for a design, build, operate and maintain. Commissioners Samuelian stated that if part of the work that the City is already paying for would include a view of what other cities are doing and how it is working would be educational.

Commissioner Aleman asked if they were agnostic. Mr. Llorente responded that the Johnson Controls team is committed to looking at the way other cities have done smart street lighting. Based on Mr. Llorente's discussions with Johnson Controls, Johnson Controls is not aware of other smart street lighting projects that has used this type of technology (not saying that it can't be used).

Eric Carpenter stated that there is a need for fiber now and in the future. Ultimately, Smart Street light is a potential option of exploring fiber. Mr. Carpenter expressed from his prospective the city should be looking at all potential options for exploring fiber. Mr. Carpenter personally thinks that the bigger need is going to be on video cameras (public safety component) which will be implemented through the GO Bond. There is going to be a significant need in backhaul capabilities from all of the cameras. Mr. Carpenter also expressed that he had some concerns regarding Cable Runner and some other things that are being explored with Legal but ultimately everything needs to be looked at, in order to find the best solution for the city. Mr. Carpenter suggested that an independent study of the City's storm water system be conducted to see whether or not it will work. There are potential opportunities, but they will be localized because the City's storm water system is not connected from one end of the City to another the way the sewer system is. There will be streets that need to be broken up even with the

Cable Runner option. However, this does not mean there is not a good localized option with the stormwater system. The bigger issue is if one company is allowed into the City's underground utilizes, does the City have to allow the other companies?

Commissioner Steinberg stated that there are a lot more companies other than the ones that were mentioned in today's meeting that provide fiber. Comcast was ripping up the streets in North Beach recently to install fiber lines. Other companies that are not mandated by the City but, are from the State, are installing fiber lines right now. Commissioner Steinberg stated she does not want to limit the fiber technology to just one company because there are so many other companies out there.

Commissioner Gongora stated he feels comfortable with authorizing the first three requests made by Cable Runner at their own expense. Commissioner Steinberg asked who the City's independent expert was. Mr. Carpenter responded that the City would contract someone who has already worked on the City's storm water system or someone who is already digging into the City's storm water system.

Commissioner Steinberg suggested removing the word 5g from the item. Commissioner Gongora suggested replacing it with fiber technologies.

Commissioner Aleman stated that a recommendation was made at the last Committee meeting regarding consulting with the City's expert outside counsel on telecom regarding the industry and the technology in the proposal including the review of possible preemptions. Eric Carpenter responded that the item was regarding 5g and whether an outside expert was needed to indicate what 5g was and what the implementations would look like. Commissioner Aleman stated the opinion of an IT expert is missing from the proposal as it related to the fiber network and what the different options are.

Commissioner Steinberg asked Mr. Carpenter for his opinion on what he thinks the City should do regarding the technology. Mr. Carpenter responded #1 is between the two companies as to whether the technology works or doesn't work and that #2 has value. However, #3 or #4 need the opinion of an IT/telecommunications specialist. Mr. Carpenter suggested getting input from the same individual that assisted the City with writing its telecommunication ordinance and some other professionals as to what can and can't be done before unintended consequences are made.

**MOTION:** Commissioner Gongora made a motion to (1) incorporate options #1, #2 and #3 at the cost of Cable Runner; and (2) hire an independent IT/telecommunications specialist that Mr. Carpenter suggests studying the feasible of putting fiber optics in the storm water system. Commissioner Malakoff seconded the motion.