

**PUBLIC WORKS AND SAFETY
STANDING COMMITTEE MINUTES
Monday, December 11, 2017**

The meeting of the Public Works and Safety Standing Committee was held on Monday, December 11, 2017, at 5:00 p.m., in the 5th Floor Conference Room of the Municipal Office Building. The following members were present: Commissioner Bynum, Chairman; Commissioners Markley, Kane, Johnson; and Jeff Bryant, BPU Board Member. Commissioner Philbrook was absent. The following officials were also in attendance: Gordon Criswell and Melissa Sieben, Assistant County Administrators; Misty Brown, Deputy Chief Counsel; Ryan Haga, Assistant Counsel; Jeff Fisher, Executive Director of Public Works; Alan Howze, Chief Knowledge Officer; Major Rance Quinn, Kansas City Kansas Police Department; and Doug Bailey, Sergeant-at-Arms.

Chairman Bynum called the meeting to order. Roll call was taken and all members were present as shown above.

Approval of standing committee minutes for October 23, 2017. **On motion of Commissioner Markley, seconded by BPU Board Member Bryant, the minutes were approved.** Motion carried unanimously.

Committee Agenda:

Item No. 1 – 171427... ORDINANCE: ALTERNATIVE PROJECT DELIVERY METHODS FOR CITY CONSTRUCTION PROJECTS

Synopsis: An ordinance amending Chapter 29 relating to alternative project delivery methods for the design and construction of buildings and other structures based on qualifications and a best value approach, submitted by Misty Brown, Deputy Chief Counsel. It is requested that this item be fast tracked to the December 21, 2017 full commission meeting.

Misty Brown, Deputy Chief Counsel, said what you have before you, the first two items are very similar. It pertains to construction methods.

When we got our new Public Works Director, Mr. Jeff Fisher is here today to answer any questions, he came up with some ideas that kind of match more with what the construction industry is doing. A newer trend the last few years is to look at alternative project delivery methods. This is construction management at-risk and design build.

The Unified Government is currently doing our very first construction management at-risk project with the new Juvenile building. We've done a few design builds over the years, but we haven't aggressively pursued them. We started looking at how we could do more with less and looked at some of these innovative ways of doing it.

As I looked at state law I noticed that state law pertains to counties and how counties can utilize these procedures. It sets out the methods and means of doing it, but there is nothing for cities.

Jeff and I discussed it and we thought, let's amend our Procurement Code and set out the methods so that we can utilize it for city projects. A lot of cities aren't like us, we are unique being a consolidated city-county government. It seems like something that we're going to want to use in the future.

Action: **Commissioner Markley made a motion, seconded by Commissioner Kane, to approve.** Roll call was taken and there were five "Ayes," Bryant, Markley, Kane, Johnson, Bynum.

Item No. 2 – 171431... RESOLUTION: COMMISSION'S DESIGNEE FOR ALTERNATIVE CONSTRUCTION METHODS

Synopsis: A resolution designating the Purchasing Director or the head of the procuring agency responsible for carrying out the construction project to act as the Commission's designee, subject to the Administrator's approval, when the Unified Government pursues alternative construction methods on County projects, submitted by Misty Brown, Deputy Chief Counsel. It is requested that this item be fast tracked to the December 21, 2017 full commission meeting.

Misty Brown, Deputy Chief Counsel, said when I was going through state statute, it is very specific about items that must be done and the order of which it must be done for design and

build and CMR. A lot of it required a lot of attention from the Commission, but it did allow us to designate one person, or various persons, who could make some of these decisions for the Commission. Right now, our Procurement Code already authorizes the Purchasing Director, or the department in charge of the procurement to do some of these things, subject to the Administrator's approval. Just trying to be very official, I thought we could formally name it so there's no question about the authenticity of future actions.

Action: **Commissioner Markley made a motion, seconded by BPU Board Member Bryant, to approve.** Roll call was taken and there were five "Ayes," Bryant, Markley, Kane, Johnson, Bynum.

Item No. 3 – 171422...RESOLUTION: BRIDGE #159 IMPROVEMENT PROJECT (CMIP 2142)

Synopsis: A resolution declaring the necessity and authorizing a survey and descriptions of lands necessary for the construction of a new box culvert to reduce downstream drainage impacts and repair of Bridge #159 Improvement Project (CMIP 2142), located at North 34th Street, south of Georgia Avenue, submitted by Ryan Haga, Assistant Counsel.

Ryan Haga, Assistant Counsel, said all three items are essentially for the same thing, which is they authorize, or I should say, they declare the necessity of the bridge projects that are laid out in these resolutions, authorize for the survey of lands and determine what easements may be needed on each property as well as authorizing the Chief Legal Counsel to submit an ordinance for any sort of condemnation that may be required. This is the standard procedure for beginning property acquisition for a project under Kansas law.

Action: **Commissioner Markley made a motion, seconded by BPU Board Member Bryant, to approve.** Roll call was taken and there were five "Ayes," Bryant, Markley, Kane, Johnson, Bynum.

Item No. 4 – 171423... RESOLUTION: BRIDGE #71 IMPROVEMENT PROJECT (CMIP 5045)

Synopsis: A resolution declaring the necessity and authorizing a survey and descriptions of lands necessary for the construction of a new box culvert to reduce downstream drainage impacts and repair of Bridge #71 Improvement Project (CMIP 5045), located at North 51st Street, north of Cleveland Avenue, submitted by Ryan Haga, Assistant Counsel.

Action: Commissioner Markley made a motion, seconded by Commissioner Johnson, to approve. Roll call was taken and there were five “Ayes,” Bryant, Markley, Kane, Johnson, Bynum.

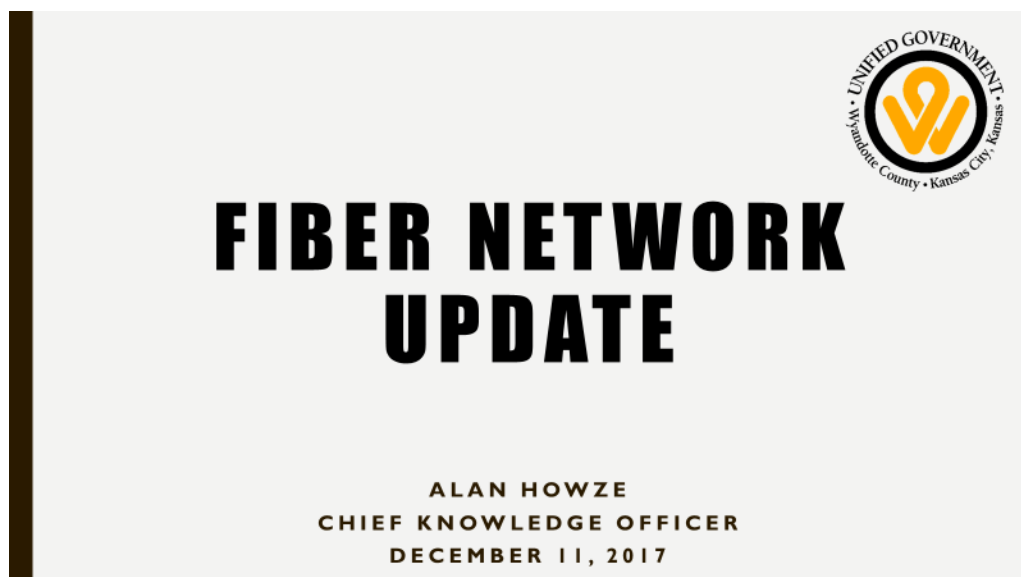
Item No. 5 – 171424...RESOLUTION: BRIDGE #237 IMPROVEMENT PROJECT (CMIP 2167)

Synopsis: A resolution declaring the necessity and authorizing a survey and descriptions of lands necessary for the construction of a new box culvert to reduce downstream drainage impacts and repair Bridge #237 Improvement Project (CMIP 2167), located at North 11th Street, north of Troup Avenue, submitted by Ryan Haga, Assistant Counsel.

Action: Commissioner Markley made a motion, seconded by Commissioner Johnson, to approve. Roll call was taken and there were five “Ayes,” Bryant, Markley, Kane, Johnson, Bynum.

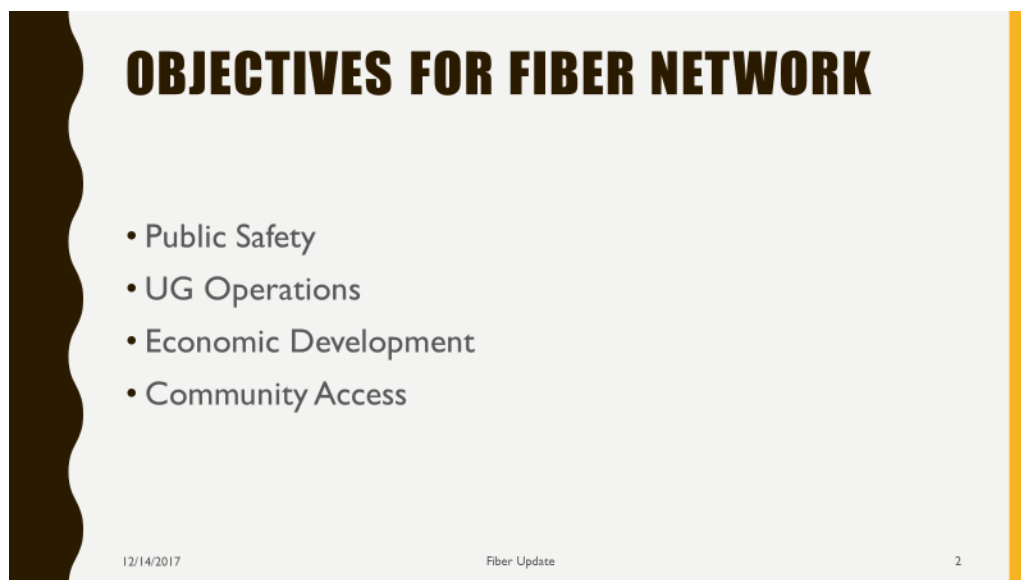
Item No. 6 – 171345...UPDATE: FIBER NETWORK IMPLEMENTATION AND BODY CAMERA INITIATIVE

Synopsis: Update on the fiber network implementation and body camera initiative, submitted by Alan Howze, Chief Knowledge Officer.



Alan Howze, Chief Knowledge Officer, said thank you for the opportunity to provide this informational update on the fiber network. I'll start with introducing the folks that are up here with me. Major Rance Quinn from the KCKPD; Lideana Laboy, the UG Traffic Engineer; and Jonathan Bahmani from Unite Private Networks.

When we last came before you in May, Chief Ziegler and I gave you an update on body cameras on the fiber network that is an integral part of that. This evening's update is a continuation of that discussion around fiber in particular. I know there was interest from commissioners on this body for this project in particular. We wanted to give you an end-of-year update, kind of where we are and the progress that's been made so far. That's our purpose here this evening.



Just to recap the four objectives overall for the Fiber Initiative. First and foremost is supporting public safety and the KCKPD and the fiber network as a foundational element of the implementation of body cameras, but also to support other aspects: in-car cameras and video traffic in general.

Supporting UG operational efforts — think of, again, traffic video management, any sort of UG operations that can benefit from improved connectivity. There's lots of opportunities there.

Economic Development — how can this project also support efforts to improve connectivity in corridors, business corridors in particular that don't have, haven't had access to the kind of speeds that support business formation, growth and expansion.

Lastly is community access – think of how we continue to address issues of digital equity, digital connectivity, digital connection for other organizations within our community.

These, again, are the four priorities we're trying to approach.

GUIDING PRINCIPLES

- Re-use existing conduit under roads
- Share technology infrastructure across departments
- Meet security requirements
- Meet operational needs
- Provide redundancy
- Maximize value of the investment in fiber

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Fiber Update

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The guiding principles — as we went through this how do we re-use existing conduit that's under roads that's been put there over time through road projects. How do we share technology infrastructure across departments, again maximizing value for this project? How do we meet the security requirements specific for KCKPD as well as for other users of the network? Again, those operational needs, how do we provide redundancy so that we're not subject to if a line gets cut in one place, it doesn't bring the whole system down. How do we maximize the value of this investment in fiber that the Commission has approved?

VENDOR PARTNER

- Selected Unite Private Networks (UPN) as vendor for fiber buildout
- KC based company
- Public-private partnership
 - UG receives 72 fibers
 - UPN utilizes existing UG conduit where available
 - UG receives fibers in all new build
 - 12 fibers in 2 diverse routes to Carrier Hotel in downtown KCMO
- Frequent coordination b/w Unite; DOTS; PD; Public Works; Emer Mgt; BPU

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Fiber Update

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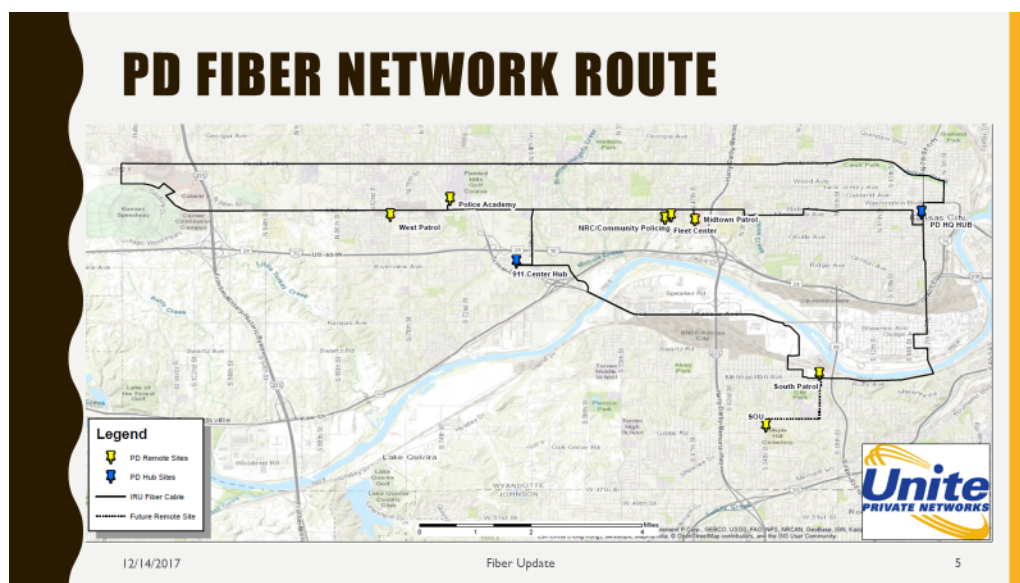
I want to introduce our vendor partner. We earlier this year selected Unite Private Networks as the vendor for fiber buildout. They are a Kansas City based company, headquartered in Zona

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Rosa. We've entered into a public-private partnership with UPN in which we are getting a network that has 72 fibers which is more than enough, adequate for our operational needs across all of our departments. UPN will utilize existing UG conduit where available. There were significant sections where we had conduit in the ground. Areas where UPN builds out to meet commercial customers, we'll ride along. We'll get fibers pulled to those locations as well so we can grow our own network to cover connections to other places that aren't on the main core network that we're building out to meet the PD needs right now.

We get 12 fibers as well in two diverse routes to what's called the Carrier Hotel in downtown KCMO. This is essentially the hub where connections from companies, from internet providers come together. It allows us, essentially, to buy wholesale internet and other services.

We've had frequent coordination, weekly meetings between Unite, between our technology group, the PD, Public Works, Emergency Management and BPU. It's been an effort in close coordination.



Major Rance Quinn, KCKPD, said this is the PD ring, if you will. As you can see it goes up to Parallel Avenue, travels west out to the Legends and then south back through the Legends and down east on State. As you can see, the majority of our locations are West Patrol, Police Academy, 911 Center and the NRC Fleet Center and our new South Patrol, of course, Police Headquarters and the dash line that you see in the very bottom right-hand corner that says "SOU", that is our SWAT unit. They handle high-risk warrant service for us. They carry body cameras when they do those warrants.

Currently we have no ability to transfer that video data from Point A to Point B, basically from our SWAT unit back to our Police Headquarters. This entire data ring if you will, the fiber ring, will allow us to transmit data from one location to the next much faster and much better than we currently do now.

We have video training that we try and do, but the way that we have to do it now is that we have to move it from one server to the next, from one location to the next, or create DVDs, those kinds of things, in order to have all of our officers throughout the different divisions watch those videos. This would increase the way we do business tremendously.



These are the locations that we would do that: West Patrol, Police Academy, the Communications Center, Midtown Patrol, Community Policing, Fleet Center, South Patrol, Headquarters, the Carrier Hotel that Mr. Howze talked about. Then we've got our future connection sites which are SOU. Right now, we don't have the funding in order to do the SOU part. We're trying to work through how we're going to try to pay for that.

Traffic Support would be our Traffic Support Unit which is off of Leavenworth Road, 60 something and Leavenworth. There's talk of maybe moving that location at some point maybe in the near future. It's quite an expense to provide fiber to that location. We're trying to work through that. We don't want to do that if we're going to move six months from now.

Animal Services – currently our Animal Services can't transmit data very efficiently from their locations to the headquarters. We hope to get them hooked up at some point as well.

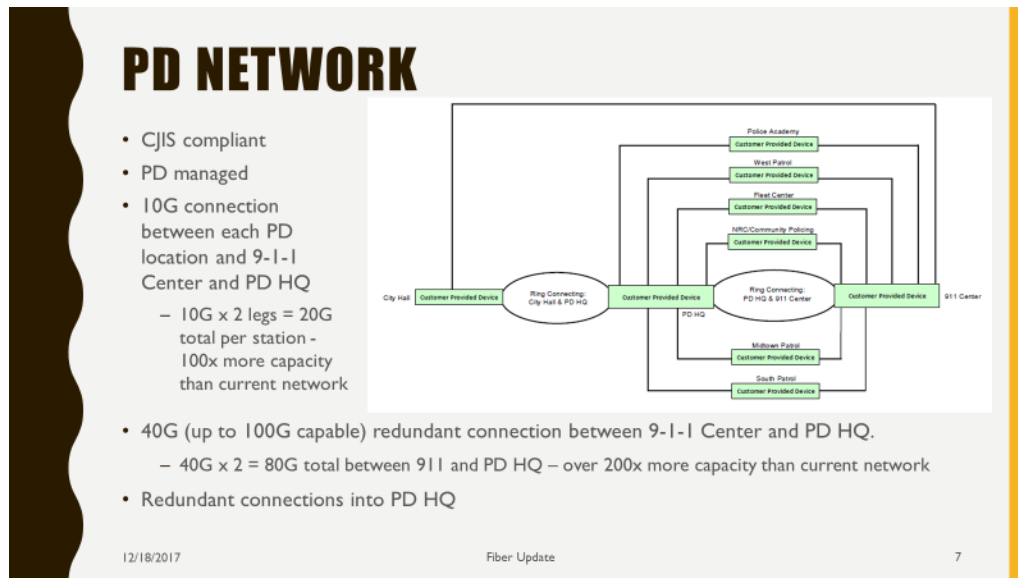
Chairman Bynum asked just a quick question on those future sites. Traffic Support and Animal Services and Special Ops, should that be a budget issue that we should be watching for in the spring as we move into the next budget cycle? **Major Quinn** said Mr. Howze can probably answer that a little bit better than me. The idea was that as we move along with this fiber project and they start to sell the non-PD fiber strands, that funds would come back into the project that might allow us to then finance the cost of hooking up our future locations if you will.

Mr. Howze said that's accurate. Part of this is we essentially set a ceiling on the price of the project. As Unite gains additional connectivity to commercial customers, that will actually bring that price down. We are hopeful, and have confidence, that that will, in fact, give us the headroom if you will to be able to make some of these additional connections.

It's possible, just to use Animal Services as an example, that one you kind of go down 18th and then you hang a dog leg to the left to go over to Park, or you come down. There's a couple of different ways you can kind of, I wouldn't say skin the cat, to get there. That's one that could be in the future. We'll see how much in capacity we can create.

Major Quinn said just as an example of how this is going to increase our efficiency, we're doing a lot of this stuff now. For example, we currently have in-car cameras, except the only location that those in-car cameras will upload is at our Police Headquarters. Our officers in the field and supervisors spend a lot of time driving memory cards from Point A to Point B so we can then upload that information. Once we add to that body-worn cameras, that's just a whole host of more data that's going to have to transmit across the lines. Technically, we really couldn't – technically maybe you could right now, but it would just take massive amounts of time in order to do that. Once the fiber goes online that's going to increase our efficiency, hopefully not driving around anymore delivering memory cards and all those kinds of things.

Our current phone system, like Animal Services, we're having problems with the phones down there. We can't put them on our current Cisco network because we don't have the connectivity between Animal Services and Police Headquarters. That's another issue that we're hoping to fix. We're having to pay AT&T additional costs to fund phones just for that location. There's a lot of that that goes on right now.



Mr. Howze said I won't go into too much detail on this, but just to give you a little bit of high level in terms of the technical part of the PD network, it does meet the requirements for CJIS, which is the Criminal Justice Information System that Kansas and other states operate under. It will be managed by the PD, again for security reasons. The way it's designed is that there will be two independent connections for each PD location. One from each location will go to the 911 Center, one will go to PD Headquarters, so you'll have two legs. Each cable of 10G per leg, creating 20G total capacity per station. Just, again, to give you a sense of scope, this is 100 times more capacity than exists at those stations today. We think that'll meet both current and future needs for video transfer.

Commissioner Johnson said with all these technical terms I'm way over my head right now, so I'm going to ask a very rudimentary question. How much capacity are we getting into right now in terms of time? In other words, will it hold so much and then we'll have to download some of it or get rid of it somewhere or clean it up? How does that work, or is it into infinity in terms of the information that we can capture?

Mr. Howze said it does. One way to think of it is like a water pipe, in a sense. You can have, you can think of how fast water can flow through a pipe, but you can also think of the diameter of the pipe that can carry more water. We're doing both of those things. We're both increasing the speed at which data can transmit going through fiber optics as well as significantly increasing the diameter of the pipe that the capacity that it can push data through.

On the other end of that, I think part of your question was what do we do with that data. That gets into the question of storage. I think, as we presented in May, the PD has put together a draft policy around how long to retain video. How much we store it is all dependent on what some of those parameters are on the policy side. **Commissioner Johnson** asked not necessarily on how much capacity we have, but just on the parameters of what length of time is according to our policy that we need to keep that information.

Major Quinn said just to kind of clarify, let's say for instance right now we're using our in-car cameras that have a video resolution of ABC. I won't get technical, but of ABC. That resolution is reduced down so it can transfer from point A to point B in our locations.

When you get that video and you try to look at it on the screen, it's a real small picture. You try to blow it up because you see a tag, you can't because it's really pixelated and all that kind of stuff. That's due to our limited connectivity between one location and the next. We're hoping that this right here will allow us to use high definition video so that you can see a much larger picture. When you zoom that in you can see details that we can't see today.

That's kind of where we're at right now versus where we're heading to in the future.

Mr. Howze said the second to last bullet there, between the 911 Center and PD Headquarters will be, again, two strands on different redundant routes that will be 40G initially, up to 100G capable. This will be sort of the backbone of transmitting through the network. That will provide over, again, 200 times more capacity than the current network.

Bottom line is, we're future proofing this with the capabilities that are being put in today. This should meet the needs for the PD for now and for the foreseeable future.

Last point is that it does have redundant connections into PD Headquarters and into the 911 Center. We're limiting our exposure to somebody digging up with a backhoe cutting a line and the whole system going down because we'll be able to route it immediately back over the other way.



PUBLIC SAFETY – FIRE & EMS

- Identified Fire stations along fiber route
- Providing fiber to Mid-America Regional Council for MARC managed 9-1-1 PSAP
 - Move from slow T1 lines to fiber allows MARC to upgrade PSAP equipment
- Creating fiber connection to Johnson County 911 Center for backup dispatch
- Creating backhaul capacity for traffic camera video management

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In addition, as I said we're trying to achieve multiple objectives with this. There are other public safety considerations. We've identified those fire stations along the main route that you saw. There are several along Parallel and State that we can connect into as we go through this project.

Also, as part of this, we've been in conversation and talking with MARC, the Mid-America Regional Council. They run the PSAP, the Public Safety Access Point, for the entire region. This will give them fibers that will allow them to then do equipment upgrades at the 911 Center.

Major Quinn said currently, right now over at MARC they have been upgrading 911 Centers to a newer version of the 911 software that they answer the phones with. Our PSAP, that's what it's called, our Communications Center is one of the final places to get upgraded. The reason that is is that we can't get this redundancy backup in order to transmit the data. It's to the point now where almost every other PSAP in the metro area has upgraded, but we haven't. That's just one of the issues, or hurdles, that we face on a daily basis.

The fiber connection to Johnson County, what we're planning on doing is our PSAP, or our Communications Center, is looking to do some electrical upgrades here first, maybe second quarter of next year. We were hoping to use Johnson County's Emergency Operations Center as our backup center, our 911 calls. MARC can do that now. They can route our calls over to there. Then we'll take our dispatchers and we'll move them out there for a period of two to three weeks.

While we're doing there, our data has to transmit back and forth between there and here. The fiber connectivity will allow the dispatchers to sit there and do their job like they do it

currently where they're at now. They wouldn't even see, hopefully with the right connectivity, any kind of difference in the way of doing business.

Mr. Howze said the last point there is, again, creating additional capacity for things like traffic camera video management. As the traffic camera system grows, more data and video grows along with it. I'll turn it over to Lideana Laboy to speak to the traffic piece.

PUBLIC WORKS AND TRAFFIC

- Traffic engineering is lead in managing fiber implementation
- Working closely with BPU traffic team
- Mapped connection points to traffic signals
- Fiber connection to traffic control center at BPU Operations on Riverside
- Wastewater fiber relocation and upgrade to accommodate I-70 bridge work
- Utilizing existing conduit where available
- Project coordination includes conduit
 - I 8th and Central; 7th street projects
 - Future projects

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Lideana Laboy, UG Traffic Engineer, said as the network grows, one important piece of this is the infrastructure that we had underground. When we're talking about expanding the fiber optic network, this is all underground facilities that need to be connected. With all of the traffic signals that we have underground we have a significant amount of conduit that connects to it intersection by intersection. We also had already, prior to this project, fiber optic connecting the intersections.

When this project started, Traffic Engineering took the lead to identify that infrastructure that is underground so that we can maximize that opportunity. We have been working closely with our team, our traffic signal team from BPU to work with UPN and identify all the field constraints that we have. We are using recent conduit that was underground by the most recent installation of the last ten years plus infrastructure that has been underground for many, many more years. The BPU traffic signal team has been very instrumental to work with our vendor, UPN, on identifying locations to make the routes possible and remove constraints and when there are obstructions.

We have been working with our team to identify, look at the design and identify where the connections are going to be, where we are going to be connecting with traffic signals, and how we're going to be connecting to the different facilities.

We also have, as part of this project, our fiber optic network that connects traffic signals currently works together with BPU. As part of this project we'll be able to separate part of that, including a direct connection to our Traffic Signal Center at BPU on Riverside.

We are currently working with Wastewater Water Pollution Control relocating the fiber. The fiber will be interrupted by the new project on the I-70 bridge, so we have to relocate it, plus that line also has some issues. We have identified that and will be, as far as this project, relocating as part of UPN's relocation process.

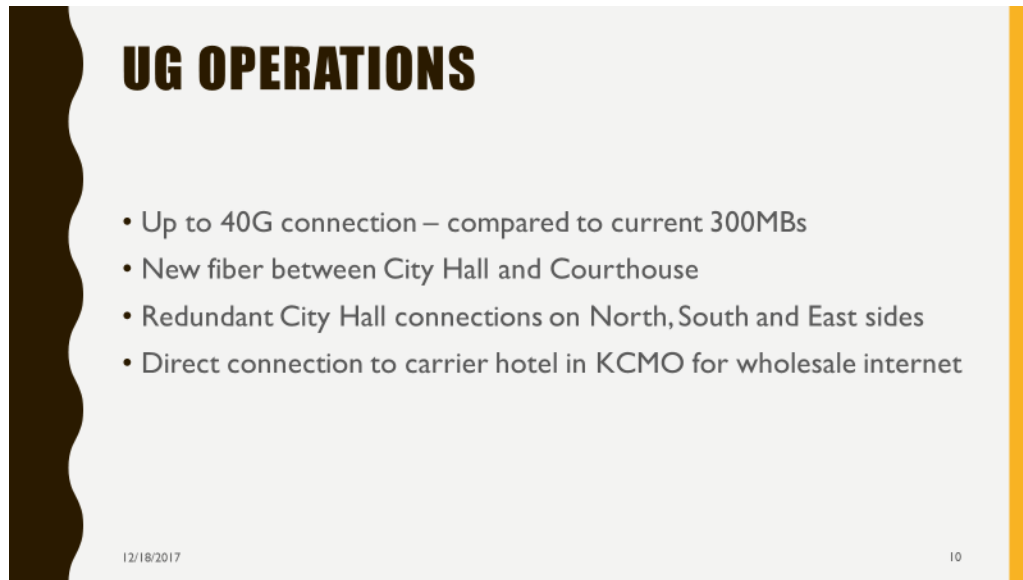
As available as we've been working on projects since we know that we want to expand the network, we've conscientiously been looking at possibilities to putting more underground. When we are working on projects and remove there, we want to put a conduit underground so that it facilitates the communication whether it's immediately or later. On all the projects that we have, like 18th & Central and 7th Street projects, we have put conduits underground at least to have the facility so that we can connect now or in the future. We'll do the same for future projects as well.

Chairman Bynum asked on the 7th Street project that just finished basically, I've noticed for a while that there is a section directly outside of Police Headquarters that appears to me to be not done. I've always wondered if it was because of what you're speaking of, that there's some underground conduit or fiber or something that we're waiting to finish there. Do you know what I'm talking about? **Ms. Laboy** said we'll have to look at it and make sure we're talking about the same thing, but there's two things going on over there.

One, and on the sidewalk, itself, is where we're doing the connection to the headquarters building. That should be pretty much done. Next to that we also had a pad for busses. We didn't want to touch it because that is a special structure under the pavement that is required for bus load. **Chairman Bynum** said that might be what I'm thinking of. **Ms. Laboy** said it might look like it's different. **Chairman Bynum** said it looks different. **Ms. Laboy** said it looks different. **Chairman Bynum** said it looks like a piece of the road that just was deliberately not completed. **Ms. Laboy** said, I think, unfortunately, those trucks pass over them and leave those marks from

the pavement, the asphalt, and it doesn't look that pretty. I think that's it and that's my presentation.

Mr. Howze said to build on that, the 7th Street project did include conduit. There is new conduit on 7th Street this year, as well as the 18th & Central intersection rebuild also included conduit. As we think about in the future, going to back to say Animal Services as an example, if we end up coming down 18th Street and then going out to Animal Services, a section of that around that intersection will already be done so we won't have to dig into that intersection to get through and around it. We're trying to both utilize what's there today as well as to think ahead about where could we be in the future and how do we, again, maximize not only the fiber project but also the investments being made in the infrastructure and the repaving.



UG OPERATIONS

- Up to 40G connection – compared to current 300MBs
- New fiber between City Hall and Courthouse
- Redundant City Hall connections on North, South and East sides
- Direct connection to carrier hotel in KCMO for wholesale internet

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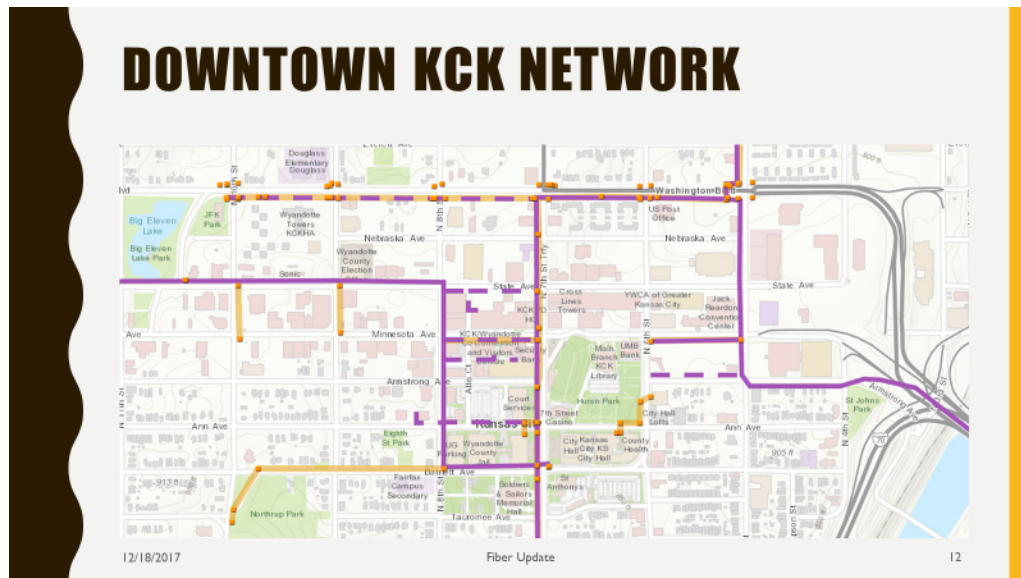
For UG operations, there will also be a direct connection to the Carrier Hotel. We'll be capable up to 40Gs. We won't need that but compared to the current 300MBs per second, again, orders magnitude, more capacity. This matters as we move more workloads into the Cloud. It gives us new options and opportunities there. There's new fiber being run between City Hall and the Courthouse that will serve City Hall, serve the Courthouse building, and also is part of the PD network as well. We're enhancing that connection, and back to the redundancy piece, there will actually be three entrances into City Hall, the north, south and on the east side. Again, protecting ourselves from an errant backhoe. Then, as I told you, the connection to the Carrier Hotel.

ECONOMIC DEVELOPMENT

- Fiber network opens possibilities for existing and new organizations
- Making Wyandotte County a more attractive location
- Connections to several major employers and attractions
- Downtown small business
- Potential downtown business incubator
- Wyandotte Economic Development and Convention and Visitors Bureau

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Economic Development — this is again one of the other goals for the project. It is opening up new possibilities for both existing and new organizations. We're working with WYEDC. They're very interested in this. Greg Kindle has been very supportive of it. There are already several connections that have been made to hook up several major employers within Wyandotte County. This is not conceptual. This is actually happening. There are conversations with several small businesses in the downtown area as well as a potential business incubator in the downtown area. These are all facilitated by and require the higher level of connectivity than is commercially available in those corridors today, including, in fact we were this afternoon meeting with WYEDC and the KC Chamber about the connectivity even in their own building. Again, opening up possibilities in some of these commercial corridors.



What does that begin to look like as we think about a downtown network? I just put this picture in here, it's got a lot of colors going on here. The yellow-orange is existing UG conduit so where over time conduit is going into the ground. The solid purple line is where there will be fiber going in as part of this buildout. The dotted lines are where fiber could be going. A lot of cases there is existing conduit there that will open up, eventually, new sections and new capabilities for the downtown area.

Just wanted to give you a sense of how we're thinking through this which is what are the needs in the downtown area, not only for UG operations and connections to Police Headquarters, to Fire Headquarters, to City Hall, to our operational core downtown, but also supportive of the economic development piece as well.



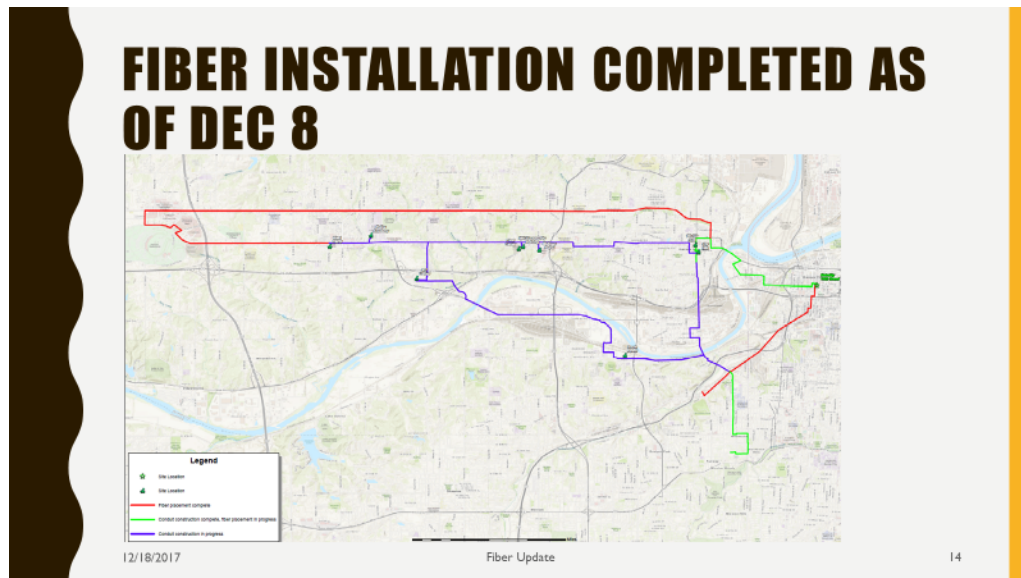
COMMUNITY ACCESS

- Preliminary discussions with community organizations
 - School districts
 - KCK Housing Authority
 - UG Transit
 - Connecting for Good (non-profit in KCK)
 - LiteracyKC

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The last point mentioned was around community access. We've also been engaging in discussions with several community organizations starting with school districts. I've had conversations with several of the school districts in Wyandotte County. The Housing Authority is also very interested in this. If you map out their locations, you'll see that there are a lot of locations that are relatively close to the core that is being built out. They're thinking about that.

UG Transit would begin to think about what are, with the downtown bus station or midtown or some of those other areas, is there Wi-Fi that becomes available in those areas, what are the ways that Transit could use this kind of service, as well as other nonprofits including Connecting for Good which is located in KCK by Juniper Gardens. LiteracyKC, some of these other organizations that are connected to the world of digital inclusion, digital equity, they see the opportunity for expanding the connectivity through the work they're doing in conjunction with this network buildout.



I'll give you a brief update. Work is ongoing on this. The colors on this one — the red is built. The fiber conduit is built, and the fiber is pulled through the conduit. The green — the conduit is in place and the fiber is being pulled through the conduit. The blue is not quite there yet. That will be built out as we go forward.

This is, again, an active project. There's stuff happening. There's build. You can see it around when you drive through town. I just wanted to give you an update on where we're at and that we're moving forward on this.

STATUS AND TIMELINE

- Next steps
- Complete Carrier Hotel to City Hall and PD HQ connection
- Connect PD HQ to 9-1-1 Center, West Patrol, and Academy
- Complete buildout to all PD Phase I locations
- QUESTIONS?

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The next steps, we are working with Unite to complete the Carrier Hotel and City Hall connections and PD Headquarters connections. We are then following closely behind by

connecting PD Headquarters to the 911 Center, West Patrol and the Academy. If you look at that status map, you'll see that from going west to east along State Avenue, they're pretty close there. Then buildout in all Phase I locations in the first part of next year. This is moving at a rapid pace.

That's the update. Again, wanted to bring this back to the Standing Committee, let you know where this is. The Commission made an investment in this and we're moving ahead at full speed.

Chairman Bynum said I do have one question. On your next steps and your buildout, clearly including the Academy which is on the campus of Kansas City Kansas Community College, are they a partner that you're talking to, working with, to include in future expansion? **Mr. Howze** said they are on the list. We haven't gotten to them yet. We've had sort of a first conversation with them, but haven't sat down in any depth with them. I don't know if Unite had conversation, but I know they were also interested in the community college as a potential partner in this as well.

Commissioner Johnson said I think you've answered this in prior presentations, where do the community centers, the UG owned community centers, fit in within this timeline, if at all? **Mr. Howze** said sure. We've actually gone through and mapped all of the UG facilities from community centers to fire stations to pump stations for Public Works. As we go by these areas, it sort of depends on how close to the main core they are at this point in time. We definitely see opportunity to connect them up as maybe a future conversation with the Commission as to what sort of a future phase of the fiber buildout could look like for the community. It's also part of what we saw as the benefit of entering an agreement with UPN was if they have commercial customers that take us closer towards those destinations, then that will get us significantly further in terms of our buildout and lessen the amount that we have to pay to put fiber in the ground.

Commissioner Johnson said you also had some nonprofits that were listed, I think, on slide 12. How is that determined in terms of which ones we would have access to the network? **Mr. Howze** said they wouldn't necessarily have access to the network. They are ones, who like LiteracyKC, they do a lot of programming that involves digital connectivity, so online programming. It's version 2.0, you might think of some of the efforts that kicked off when Google Fiber came to town around digital inclusion and helping people with workforce skill

development around technology and literacy development. They have worked with other jurisdictions on this sort of digital equity efforts. They expressed an interest in working with KCK, again as we build this out. This is another, one way to think of it is this is infrastructure like a road. We are in a sense building a digital road in different areas. The traffic that can benefit from that, there's lots of potential parties that can benefit from that infrastructure.

Commissioner Johnson said right now I guess what I'm hearing is because of their relationship with the school district, itself, it kind of precipitated the need to extend that to those organizations. I can see a lot of nonprofit saying hey, we might like to link up as well. **Mr. Howze** said it creates the opportunity for a much broader conversation.

Like Connecting for Good, they've got a digital recycling center and computer lab across the street from Juniper Gardens on 3rd Street. In talking with the Housing Authority, and they do some work with them on providing internet access to some of the residents, they see this as potential. It has the potential to take them significantly further down that path in terms of offering quality services.

Chairman Bynum said I do want to thank all of you and all the colleagues that work with you and staff that works with you because I know it's a big project. Sounds like you've kind of come a long way in a short period of time. That's my layman's understanding of what you've done so far. I'm sure you don't want to tell me if I'm wrong. It seems like you've done a very large amount of work in a short period of time. We look forward to hearing from you again, maybe in I don't know, next quarter sometime. **Mr. Howze** said we'll be happy to come back. You're absolutely right, this has been a cooperative, collaborative effort across lots of departments and organizations. We think it's bearing fruit.

Action: **For information only.**

Adjourn

Chairman Bynum adjourned the meeting at 5:40 p.m.

mls

December 11, 2017