



Technology Department • Kyle MacKenzie • Director  
4303 Lawrenceville Highway • Loganville, GA 30052 • 770-466-0015 • [www.loganville-ga.gov](http://www.loganville-ga.gov)

---

## **Staff Report Finance Committee**

**To:** Finance Committee

**Through:** Danny Roberts, City Manager

**From:** Kyle McKenzie, IT Department Director

**Date:** August 3, 2022

**Subject:** Tom Brewer Road (Judicial Building) / City Hall Fiber Installation Project

### **RECOMMENDATION:**

Staff recommends to the Finance Committee to approve the proposed fiber network installation which will enable a common use internet connection and prevent irregular outages in broadband connectivity throughout municipal buildings. The total estimated project cost (includes estimates for conduit, fiber, equipment, directional boring) is \$67,137.76. Not to exceed \$80,600.00 (project cost + 20% Contingency).

### **FISCAL IMPLICATION:**

The project allows the pooling and sharing of resources such as servers, storage and internet connections, eliminating the need for each building to have its own server room and internet connectivity. The project will provide us with a 10 Gbps Down / 10 Gbps Up connection, acting as if the devices on the remote network are in the same building as City Hall.

Current Monroe Utilities internet services (1 Gbps down / 1 Gbps Up), to support the proposed configuration, will cost \$600 per month. The return on the investment is calculated at 9 yrs.

### **BACKGROUND:**

The Judicial Building at 605 Tom Brewer Road houses the Police Department, Municipal Court and Fire Station 16. Currently the City of Loganville Judicial Building utilizes a closed LAN fiber optic connection to communicate with Loganville City Hall. The LAN connection is utilized daily for heavy video file transmission (body camera, in-car camera footage for incidents), internet connectivity, municipal IP phone systems, security camera systems, file sharing and all other internal networking systems.

The installation is estimated to take no more than 3 months. The project relies heavily on weather, allowing trenching and directional boring for conduit installation. Other emergency projects may come up, interfering with the timeline of the installation.

### **DISCUSSION:**

Approval of City Judicial Building Fiber Installation.


	AMMT	COST	TOTAL
Engineering	2	\$ 500.00	\$ 1,000.00
Core Duct	3000	\$ 1.21	\$ 3,630.00
Duct Installation Tom Brewer	1000	\$ 7.00	\$ 7,000.00
Duct Installation Lee Byrd	5250	\$ 7.00	\$ 36,750.00
Hand Holes 17x30x24	10	\$ 359.55	\$ 3,595.50
Hand Holes 24x36x24	1	\$ 665.50	\$ 665.50
Hand Hole Installation (New Work)	12	\$ 200.00	\$ 2,400.00
Hand Hole Installation (Law Rd, CS Floyd, Trident)	3	\$ 200.00	\$ 600.00
Fiber Optic Cable	9000	\$ 0.41	\$ 3,661.65
Fiber Cut Charge	1		\$ -
Fiber Freight Charge	1		\$ -
Fiber Installation Cost	9000	\$ 0.80	\$ 7,200.00
Splice Enclosure	1	\$ 255.11	\$ 255.11
Fiber Adapter Plate PD	1	\$ 45.00	\$ 45.00
Fiber Adapter Plate CH	2	\$ 19.00	\$ 38.00
Splice on fiber connector pigtails	2	\$ 14.00	\$ 28.00
Fusion Splice Holder / Splice Chips	1	\$ 12.00	\$ 12.00
SFP+ 8 port Switch	1	\$ 250.00	\$ 250.00
SFP+ Direct attach cable	1	\$ 7.00	\$ 7.00
** Highlighted boxes depict price increases since January			
T			\$ 67,137.76
20%			\$ 13,427.55
TT			\$ 80,565.31

2nd quote	3rd quote
Babb Boring	Undgnd Sys
\$24,880.00	\$ 21,370.00
\$98,875.00	\$ 93,815.00
	\$ 13,068.00



**City of Loganville**  
605 Tom Brewer Road to  
Lee Byrd / Bay Creek  
Loganville GA 30052

Total Appx pull in fiber: 1.65 mi or 8,712'

**Legend:**  
Existing Conduit       
Proposed Conduit    