

HAMILTON CITY WIDE SIGNALS AND FIBER PROJECT

PID 113302

Purpose & Need

Improve traffic flow

Through the use of technology

To minimize roadway widening

Purpose & Need

Existing Traffic

- Major Arterials AADT
 - High Street - 39,000 vpd
 - SR 4/Erie - 20,000 vpd
 - US 127 - 19,000 vpd

Spooky Nook at Champion Mill

- Expected to attract up to 20,000 trips on tournament weekends

Downtown Redevelopment

- New restaurants, hotels, etc.

1

Extend Fiber
Optic Network

2

Disseminate
Traffic
Information

3

Update
Equipment

4

Allow for
Emergency
Response

Methodology

Project Origin



Original Estimate (2019) \$5,251,094

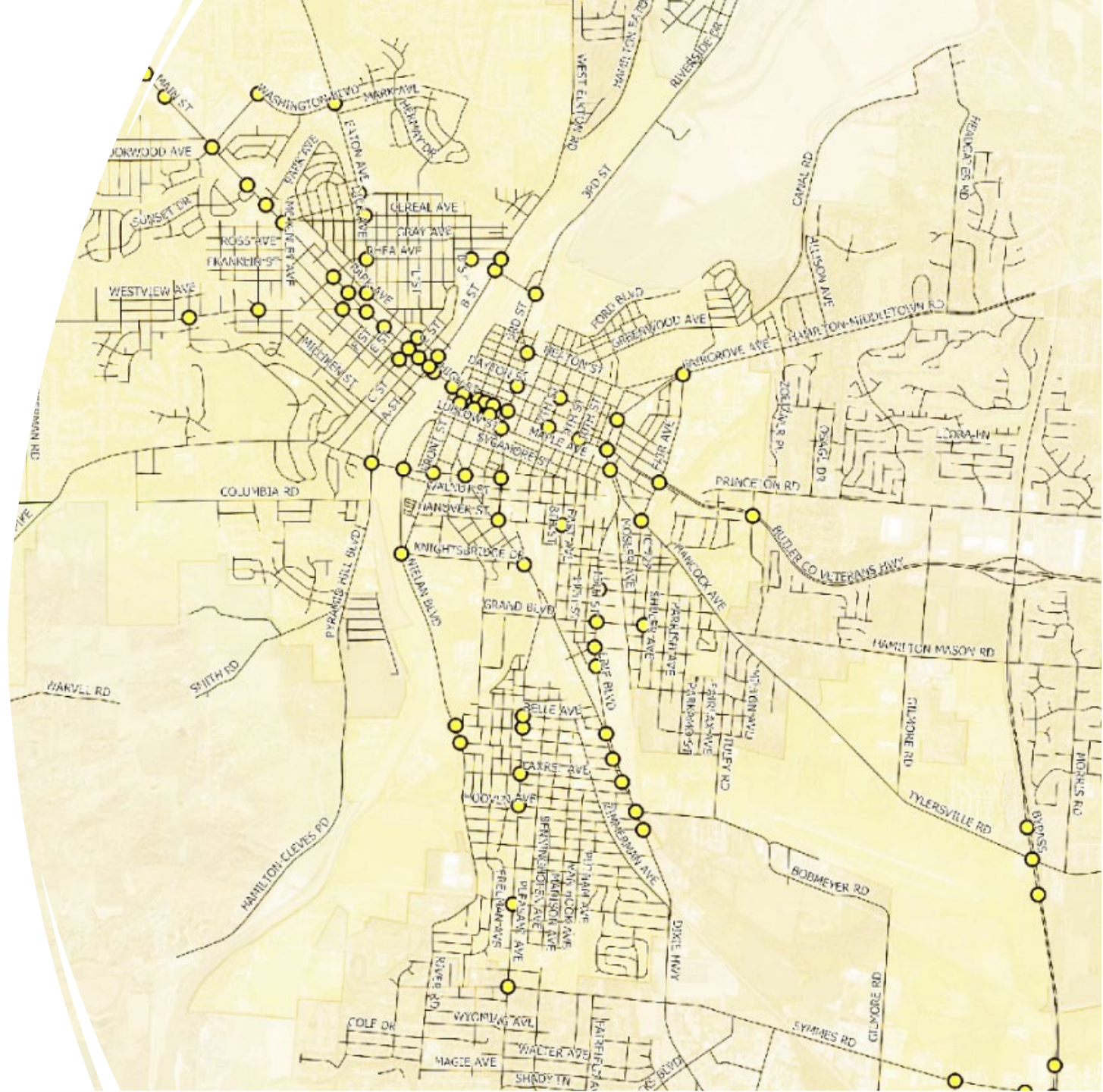
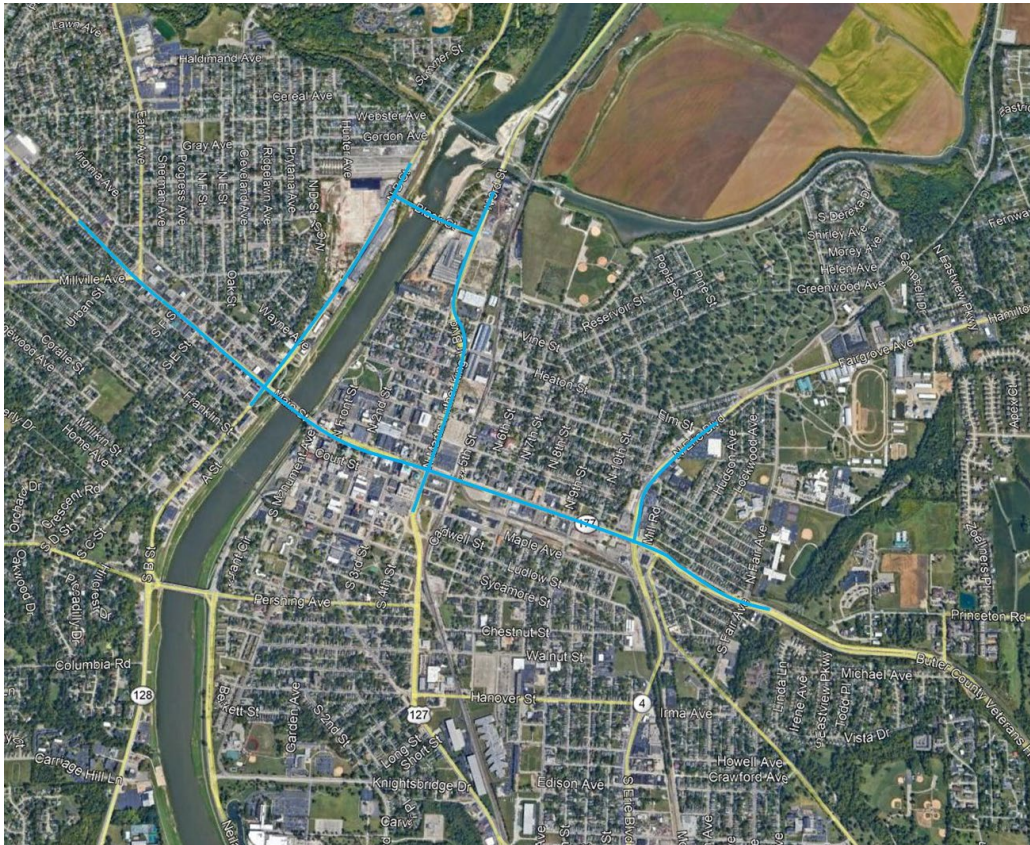


OKI Funding \$4,200,875 (80%-20%)



Final Construction Estimate (2021) \$5,575,211.46

Project Area- City Wide With Priority Corridors



Work Types

Signal Upgrades

ITS Equipment

Fiber Optic Interconnect

Curb Ramps

Signal Upgrades

City Wide

- Signal Head Replacement at 19 Intersections
- Cabinet Replacement at 24 Intersection
- Controller Replacement at 46 Intersections

Priority Intersections

- New Detection (Video and Radar)
- Battery Backups



ITS Equipment

Central Based
Signal System

CCTV Cameras

Adaptive Control
at 33 Intersections

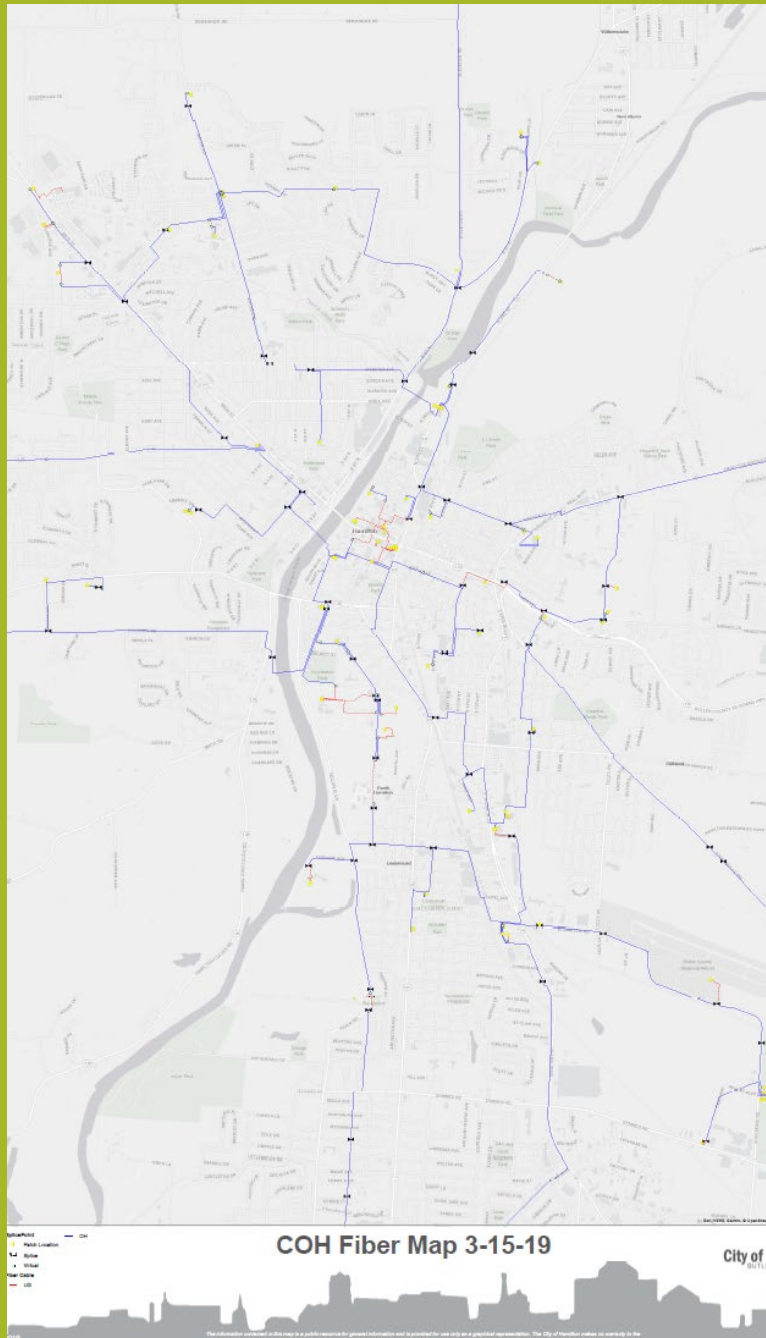
Priority System-
Emergency/Transit
Priority

Travel Time
Determination

DMS Integration

Fiber Optic Network

- Started with the City's existing fiber
- Worked with the City to utilize existing splice enclosures
- All fiber patching done in the cabinets to eliminate new splice enclosures
- Hamilton will do all trunk line splices



Construction Timeline



Project Bid Date: August 2021



Spooky Nook @ Champion Mill opens in February 2022



Server Installed in City Traffic Center



Priority intersections online – Critical Path