

# **Background**

- Erie is a city located on the south shore of Lake Erie
- It is the fourth-largest city in Pennsylvania with a population of 97,369 (2017)
- Over four million people visit Erie during summer months for recreation at Presque Isle State Park, as well as attractions such as Waldameer Park
- Averages over 100" of snow annually









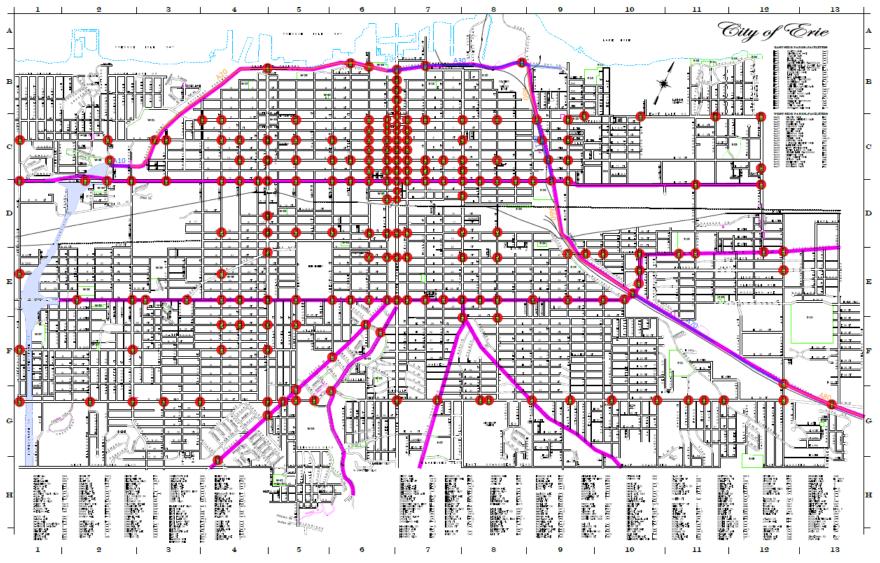


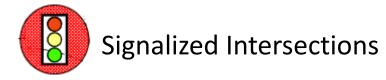


# **Roadways**

- The City of Erie maintains
   320 miles of striped
   roadway which includes 200
   signalized intersections
- PennDOT maintains state routes that are located within the city limits.







### **Bayfront Parkway Project**

East-West Connector Traffic Volume/Development has made improvements necessary for connectivity between the Bayfront and Erie's Downtown.

The estimated cost is between \$70-100 million

The state has committed \$30 million for parkway improvements

The Bayfront Parkway Improvements will consider:

- Vehicular congestion, operations, and safety
- Connectivity and access to various transportation modes
- Multi-modal improvement opportunities
- Economic development and growth







#### **ICONIC GATEWAY**

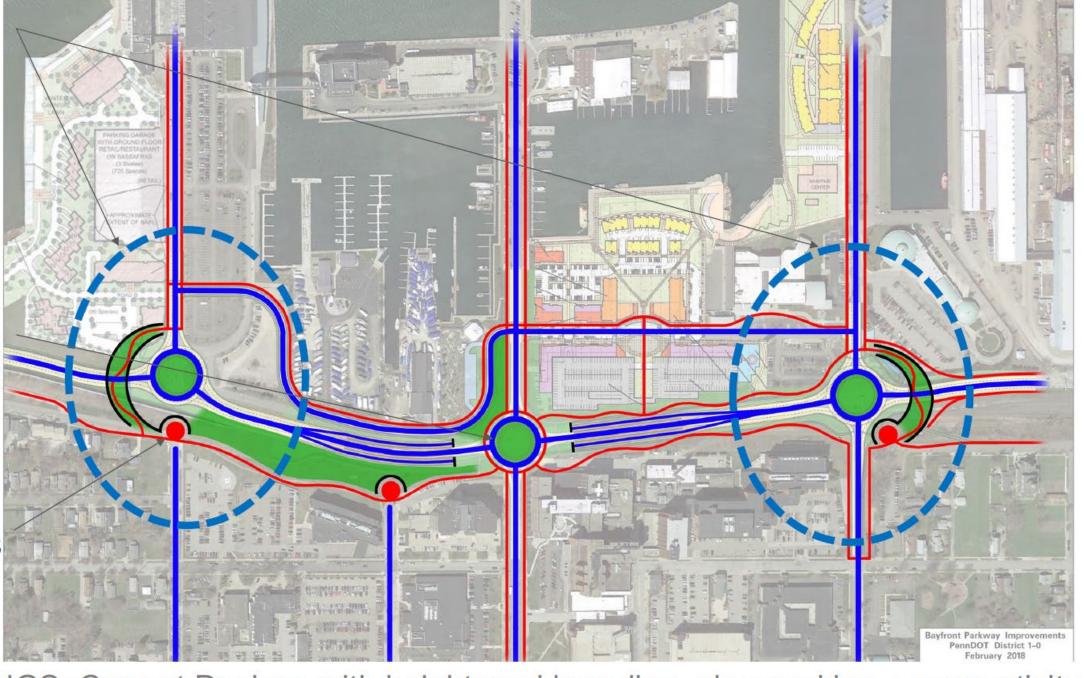
- SIGNAGE
- PEDESTRIAN BIKE CONNECTIONS TO:
- BUSINESSES
- ENTERTAINMENT
- RESTAURANTS
- HOTELS
- SHOPPING
- HOUSING
- WATERFRONT
- MARINAS
- CONVENTION CTR
- MARKET PLACE

#### SIGNATURE ROUNDABOUT

- DISTRICT MONUMENT
- SIGNAGE
- ICONIC STREETSCAPE

# THE PROMENADE WITH OVERLOOKS

- PARK EXPERIENCE
- OVERLOOKS
- BENCHES
- PUBLIC ART



THE LANDINGS: Current Designs with heightened branding, placemaking + connectivity



#### Secure Smart City™ Pilot Public/Private Partnership

Erie Innovation Dist – Technology Incubator with Mercyhurst University

- Free Public Wi-Fi around Perry Square
- Smart LED Lighting
  - Reduce up to 60%
     energy & maintenance
     costs
- City Safety & Security
  - License plate
     recognition & object
     detection around Perry
     Square

??? Future Maintenance

**Pilot Area-** State Street: 6<sup>th</sup> to 12<sup>th</sup> Street











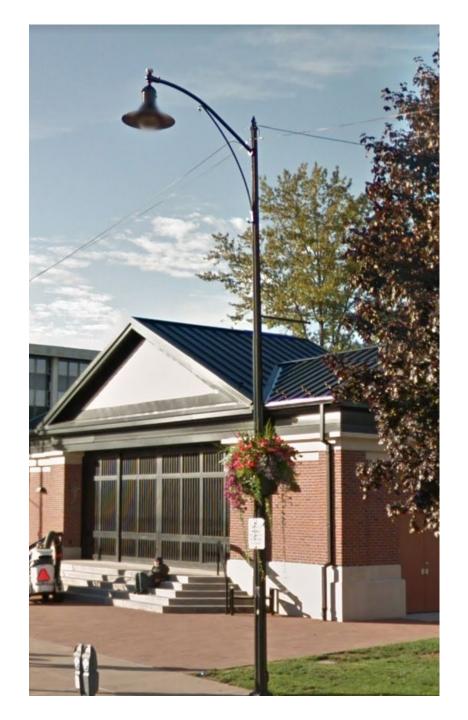
## **Smart Lighting**

**CIMON iSLC-3100-7P-C Lighting RF Controller** 

- Devices are mounted on each of the tall light poles located on State Street between 6<sup>th</sup> Street and 12<sup>th</sup> Street.
- Is an intelligent wireless lighting controller that can be easily mounted outside of any LED fixture
- Each controller provides intelligent ON/OFF switching, dimming control, scheduling, power metering and health monitoring of each light fixture.



4.53 in. W x 2.68 in. H 115 mm W x 67.98 mm H



# **Recognition Camera- LF-002**

Using this technology to enhance connectivity, promote economic development, fight crime and make local governments more efficient and responsive

- License plate recognition at low and high speeds
- Face recognition in a crowd
- Behavior Analytics in a crowd
- Crowd management
- Smoke and fire detection in a crowd
- Perimeter protection (up to 70m; additional illumination required for longer distances

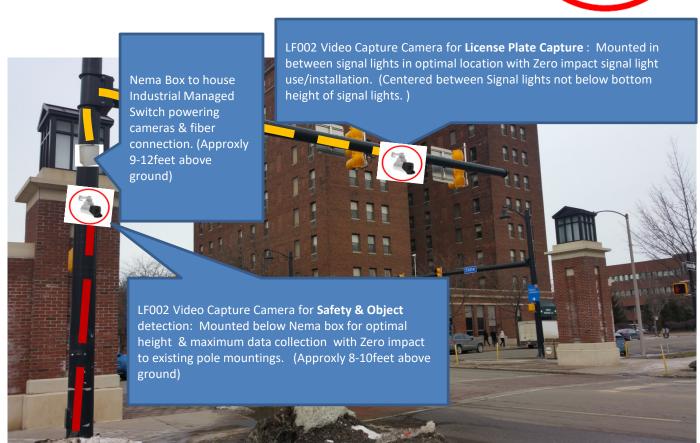
#### **Location Installation**

North Park Row and South Park Row intersections

**Line Power from Controller** 

Fiber Connectivity to Switch mounted inside NEMA Box

**Ethernet Connectivity to Camera** 



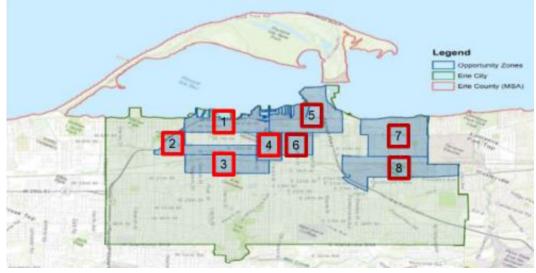
# Wi-Fi Coverage Opportunity Zones -Penelec owned poles

- LED fixtures
- City Wi-Fi network to provide internet access for residents and visitors in a 1000 light pole coverage area of the 8 Opportunity Zones of the City
- Urban Security solution with License Plate Recognition (LPR) use case and traffic monitoring will be implemented at three (3) traffic junctions to be selected within the Opportunity Zones.









# **Wireless Communication Facilities**

- To date, the City of Erie has permitted approximately 23 small cell nodes in municipal ROW
- Recent requests for 150 additional small cell towers



FIBER CABINET
FIBER TRANSITION HOUSING
FTH-NG1



AC PANEL RAYCAP RSCAC-7239-P-240





