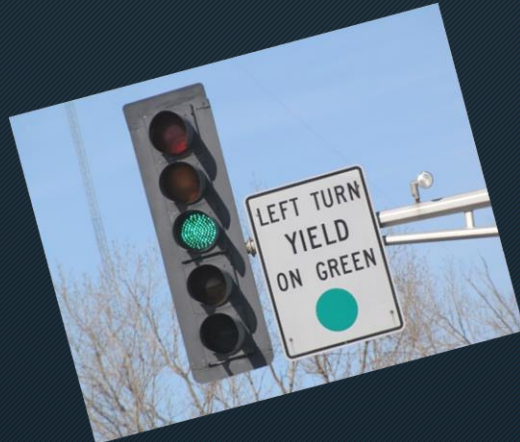


# TRAFFIC OPERATIONS DEPARTMENT

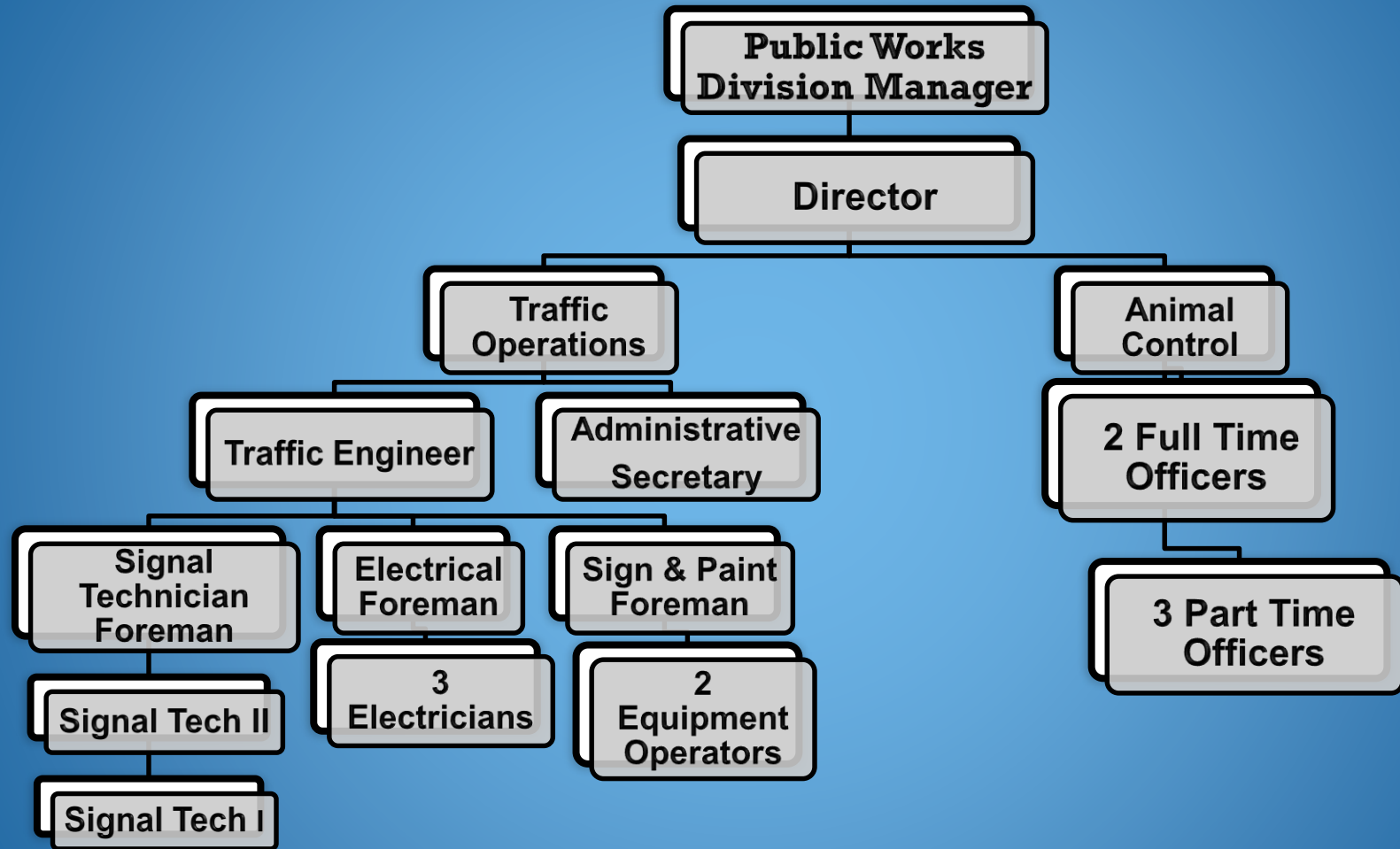


# TRAFFIC OPERATION'S MISSION STATEMENT

To provide the highest level of service to the residents of Waterloo by providing reductions of accidents, congestion, and travel times through efficient and effective design, installation, maintenance, and operation of traffic control devices, street lighting and public education.



# ORGANIZATIONAL STRUCTURE



# **Traffic Operations**

## **Road Use Tax Fund**

➤ **TOTAL EXPENSE BUDGET - 266-17-7120**

**\$1,536,158.00**

➤ **Street Light Utility Budget – 7105**

**\$518,000.00**

➤ **Traffic Signal Utility Budget – 7161**

**\$48,000.00**

# Overall Duties/Services

- 179 - Signalized Intersections, 40 - Miles of Traffic Fiber
- 27 - Crosswalks, 27 - Prepare To Stop Flashers
- 160 - EVP (emergency vehicle preemption) Intersections
- 1,800 - City Owned Street Lights/Parking Lights
- 19 - Early Warning Sirens
- 10 - Tower Lights
- Expanding Fiber Optics Network
- Conflict Monitor Testing for 200 Intersections
- Over 1,500 Locates Annually
- Replace /Repair Damaged Light Poles, Signals, Underground Conduits, Wire.
- Review All Plans for Overlays & Street Reconstruction
- On Call Service 24/7
- Video Monitoring & Recording of Traffic & Streets

# Overall Duties/Services

- Set Generators for Power Outages
- Intersection Investigations
- Signal Design
- Intelligent Transportation Systems
- Parking Investigations and Designs
- Pavement Markings
- Replacing and Upgrading Signs
- Fabricate Signs for City Departments and Outside Agencies
- 28E Agreement with Evansdale & Elk Run Heights for Signals/Lights
- Pedestrian/ADA Requirements, Bicycle Accommodations
- Traffic Calming (Speed Humps)
- PD (police department) Assistance
- Flood Control and Snow Removal
- Studies and Improvements: Upgrade Safety & Efficiency

# Sign & Paint Division

- Director
- 1 Foreman
- 2 Equipment Operators

## DUTIES:

Responsible for all signs, marking and painting of streets.

Fabricating signs for City Streets, Special Events, Routes, City Departments, and Outside Agencies.

Plowing/salting snow removal and flood control.



# Annual City Line Striping

## Approximately 156 Miles



**1,120 gallons white paint**  
**2,275 gallons yellow paint**  
**44,000 lbs. beads**

**530 Crosswalks**  
**93 RR Crossings**  
**41 Yellow Curves**  
**36 False Islands**  
**36 Speed Humps**  
**16 Parking Lots**  
**4 Ramps**



**30 Thermoplastic**  
**Markings are Installed**  
**Annually**



# Fabrication of Signs





60th YEAR  
COMMEMORATION

**Martin Luther King Jr.**

HISTORIC VISIT TO  
BLACK HAWK COUNTY  
IOWA

**HOTEL RUSSELL LAMSON**  
201 - 215 WEST 5th STREET

November, 10th 1959 - MLK spoke to press regarding his first visit to Iowa. Dr. King and his wife Coretta, also stayed overnight at this famous Waterloo hotel.

HERITAGE TRAIL  
PEARSON CONSULTING LLC



**HISTORICAL**

**IOWA**

**CIVIL RIGHTS TRAIL**

HOME OF THE  
SULLIVAN FAMILY



# Flood Control & Snow Removal



# Traffic Division

Signals, Street Lights,  
Cameras, Fiber, Smart Poles,  
Early Warning Sirens, +

- Director
- 1 Traffic Engineer
- 1 Signal Technician Foreman
- 1 Signal Tech II
- 1 Signal Tech I
- 1 Electrical Foreman
- 3 Electricians
- 1 Administrative Secretary



# FY20 Completed Projects/Highlights

- Install Fiber – US 218 – San Marnan – Kimball – 4<sup>th</sup> St.
- Study and Design Greenhill Rd. & Progress Ave.
- Downtown Retiming Study
- LED Street Light Replacement Throughout City
- Video Detection Upgrades at Progress & University and Hwy 63 & Greyhound
- Hwy 63 Signal ASCT (Adaptive Signal Control Technology) Project
- Fiber Optics and Camera Master Plan
- Plan Red Light Camera Locations
- Rewired Intersection of Ansborough & Stratford
- Expand Fiber Optic Connections through the City
- Street Light Pole & Base Replacement
- Numerous Speed Hump Studies & Traffic Counts
- GIS data entering

# FY20 Completed Projects/Highlights

(continued)

- \$500,000 in IDOT Safety and Federal Grants
- Video Detection Upgrades at 7 Locations
- Hwy 63 Signal Adaptive Signal Control Project - Ongoing
- Plan Remodel of Traffic Control Center - Ongoing
- Fiber Optics and Camera Master Plan - Ongoing
- Downtown Fiber & Monitoring Cameras Grant – Ongoing
- Installed Monitoring Cameras on Hwy 218 Corridor
- Park Avenue Bicycle Signal Grant – Ongoing
- Installed Early Warning Siren on Hess Rd.
- Fabricated Over 1,000 Signs
- Install Lighted Street Name Signs on University Ave.



# Maintenance and Repair





# Airline & Wagner Signals Designed & Installed by Staff



# FY20 Completed Projects and Upgrades





# FY22 GOALS/OBJECTIVES

- Improve Traffic Safety Throughout the City – Local Studies
- Linking Traffic Vehicular, Pedestrian and Bicycle Improvements to City's Overall Goals
- Develop and Implement a City-Wide Fiber Optics and Monitoring Camera System – Master Plan
- Advanced Central Traffic Management System - Ongoing
- Complete the Annual Painting Project
- Numerous Speed Hump Studies and Recommendations
- Smart Streets Initiative – Installation of Smart Poles
- Upgrade Traffic Control Center - Ongoing
- Upgrade a section of Hwy 218 with Gridsmart Detection - Ongoing
- Complete Ansborough & Downing Widening & Signals Project
- Downtown Fiber and Camera Project – Ongoing
- Entering GIS Data into Arc GIS System



# FY22 GOALS/OBJECTIVES

- Complete Greyhound and Ridgeway Signals and Lane Addition
- \$420,000 Safety Grant for Ridgeway Avenue
- Carry Out Traffic Safety Awareness Campaign Grant
- Replace and Upgrade Street Light Poles
- Install Cost Efficient LEDs
- Upgrade Stop Signs and Street Name Signs
- Replace 1 Early Warning Siren
- Apply for State and Federal Grants
- Safety Training for Employees
- Park Avenue Bicycle Project – Ongoing
- W. 9<sup>th</sup> St. and South St. Roundabout Grant Funded Project
- Hwy. 63 Traffic Adaptive Signal Grant Funded Project