



Public Works Update

STUDY SESSION – September 10, 2024

City Staff Representatives: Greg Labrie, Christopher Montoya, Bob Younger, and Joseph Huerta

Public Works Department

2024 Operating Budget - \$4.6M

Four Distinct Function Areas

- Engineering – 3 Full Time Employees (FTEs)
- Construction Management – 5 FTEs
- Street Operations – 10 FTEs
- Traffic Team – 6 FTEs



What have we been doing?

- Maintain 370 lane miles of roadway
- Maintain 41 traffic signals (39 intersections and 2 pedestrian crossings)
- Manage over \$25 million in design and construction of CIP
- Manage over \$5 million maintenance and repair projects
- Awarded \$1.8 million for pilot micro-mobility transportation program
- Awarded \$200,000 grant to conduct Core City Study
- Host 2 interns Annually

Moving Forward

- Obtain Approval of the Transportation Master Plan Update
- Restructure Contract Documents for the 2025 TPIP Program
- N. 40th Avenue Design and Construction
- Award Contract for Pavement Analysis and Sign Inventory
- Develop a phasing plan to replace timed-out vehicles and equipment
- Conduct a snow plow route optimization study
- Technology implementation and Asset Management

Strategic Initiatives

Asset Management System

- Capital Planning and Maintenance Programming
- Roadways, Bridges, Traffic Signals, Curb Ramps, Signage

Vision Zero and Multi-Modal

- Marketing and Signage
- Traffic calming and speed management
- Add additional bike lanes and improve existing bike lanes
- Pedestrian enhancements

Traffic Data Collection, Analysis, and Safety

- Data-driven site-specific locations

Transit and Micro-Mobility

- Starter service with the BRT7
- Local transit or transportation network accessibility
- Facility improvements



Capital Improvement and Maintenance Projects

Project	Status	Complete (%)
Bridge Street Widening	Construction	60%
Transportation Preservation and Improvement Project	Construction	10%
Sable Blvd Improvements	Design	10%
Sable Blvd and E-470 Interchange	Design	80%
120 th Avenue Corridor Safety Study	Design	40%
N 40 th Ave Improvements	Design	80%
I-76 and Bromley Lane Traffic Signals	Design	1%
Miscellaneous Concrete and 50/50 Sidewalk Program	Construction	1%
Main Street Pedestrian Improvements	Construction	100%

Development Projects 2023-2024

Development	Filings/Phases Accepted	Active Filings/Phases
Prairie Center	5	3
76 Commerce Center	1	0
Ridgeline Vista	3	1
Brighton Crossing	9	4
Farmlore	3	1
Village at Southgate	1	1
Prairie Corner	0	1
DHI Telluride	0	1
Bromley Park	0	2
Caliber Collision	0	1
Adams Crossing	0	1
Homestead	1	0
Cherry Meadows	1	0
Municipal Service Center	0	1
TOTAL	24	17

**41 Development
Projects
24 Months**

Street Operations

Staffing Overview

- 16 full-time employees
- 1 Operations Manager
- Sign shop 2 FTEs
- Traffic signals 2 FTEs
- Street Operations 9 FTEs
- Crew Leader 2 FTEs
- Currently 2 staff members short from full staffing.

Training Initiatives & Retention Strategy

- Colorado LTAP (Local Technical Assistance Program)
- City's Leadership Academy
- CAPA (Colorado Asphalt Pavement Association)
- APWA (American Public Works Association)
- CIRSA (Colorado Intergovernmental Risk Sharing Program)
- On-the-job training by veteran employees on city policies and procedures.

Service Improvements

- Implemented Bergkamp Automated pothole spray patcher "POTZILLA":
Increased efficiency and reduced pothole repair costs.
- Adoption of Asphalt Zipper
Reduces asphalt spoils and creates a reusable road base.
- Continuous evaluation for further service enhancements.



Street Operations

Technological Advancements

- Cartegraph and See Click Fix for improved work order management.
- Adoption of Fleetio for efficient equipment tracking and maintenance.
- Modern snowplow technology reduces material usage and enhances operational efficiency.

Multi-Departmental, Contracting, and Infrastructure Support

- Asphalt patching, paint striping, signage work, material hauling.
- Traffic control for special events and requests from the Police Department.
- Flexibility to assist in various tasks to support city operations.
- Contractor inquiries, field support, and infrastructure assistance.

Public Engagement

- Trash Bash, Touch a Truck, City BBQ, Festival of Lights Parade, Snowplow Naming.
- Engaging with citizens to address concerns and enhance community involvement.



Challenges

- Staffing shortages impacting simultaneous task completion.
- Budget constraints limiting operational capabilities.

Solutions

- Request for increased personnel and operational budget (Full Time and Seasonal)
- Commitment to maintain service quality and efficiency.

Conclusion

- Commitment to safety and efficient operations
- Strategic planning for future growth

Traffic Team

6 team members: 3 for traffic signals, 2 in the sign shop, 1 for painting crosswalks

Responsibilities

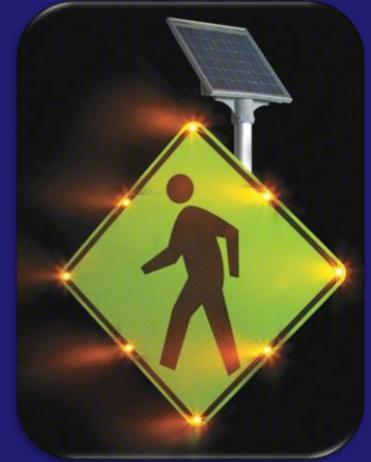
- maintenance of signals, school flashers, streetlights citywide
- upkeep of all roadway signs
- maintenance of crosswalks, arrows, parking lots throughout Brighton

Training and Certifications

- IMSA electrician certification
- expertise in MUTCD for legal compliance of signs
- training with vendors for durable product application

City Infrastructure

- Signals: 39 intersections, 2 signalized pedestrian crosswalks
- Expansion plans:
 - 6 intersections in Lochbuie
 - 4 new intersections in next two years
 - Major projects including C-470 ramps and Prairie Center Development



Traffic Team

Daily Activities

- Conduct locates, infrastructure repairs, and complete work orders
- Project collaborations and contractor oversight
- Crosswalk painting, arrow marking, parking lot maintenance

Special Projects

- New detection cameras, fiber switches, LED lighting upgrades
- Parking permit signs, Vision Zero speed signs, citywide sign implementation
- Special projects for crosswalks, parking lots, and other infrastructure

Capital Improvement Projects

- Intersection rewires, new fiber lines, pole painting
- New intersections and road light rewires across the city

Challenges and Solutions

- Funding constraints for project completion
 - a) Solution: prioritize current projects, plan for future funding
- Staffing shortages impacting daily operations
 - a) Solution: enhanced coordination among team members to meet deadlines



Public Works Accomplishments



Project Map

The study area includes Adams County, City of Brighton, and City of Commerce City, as shown in the map.



Project Schedule

(Click to enlarge)

