



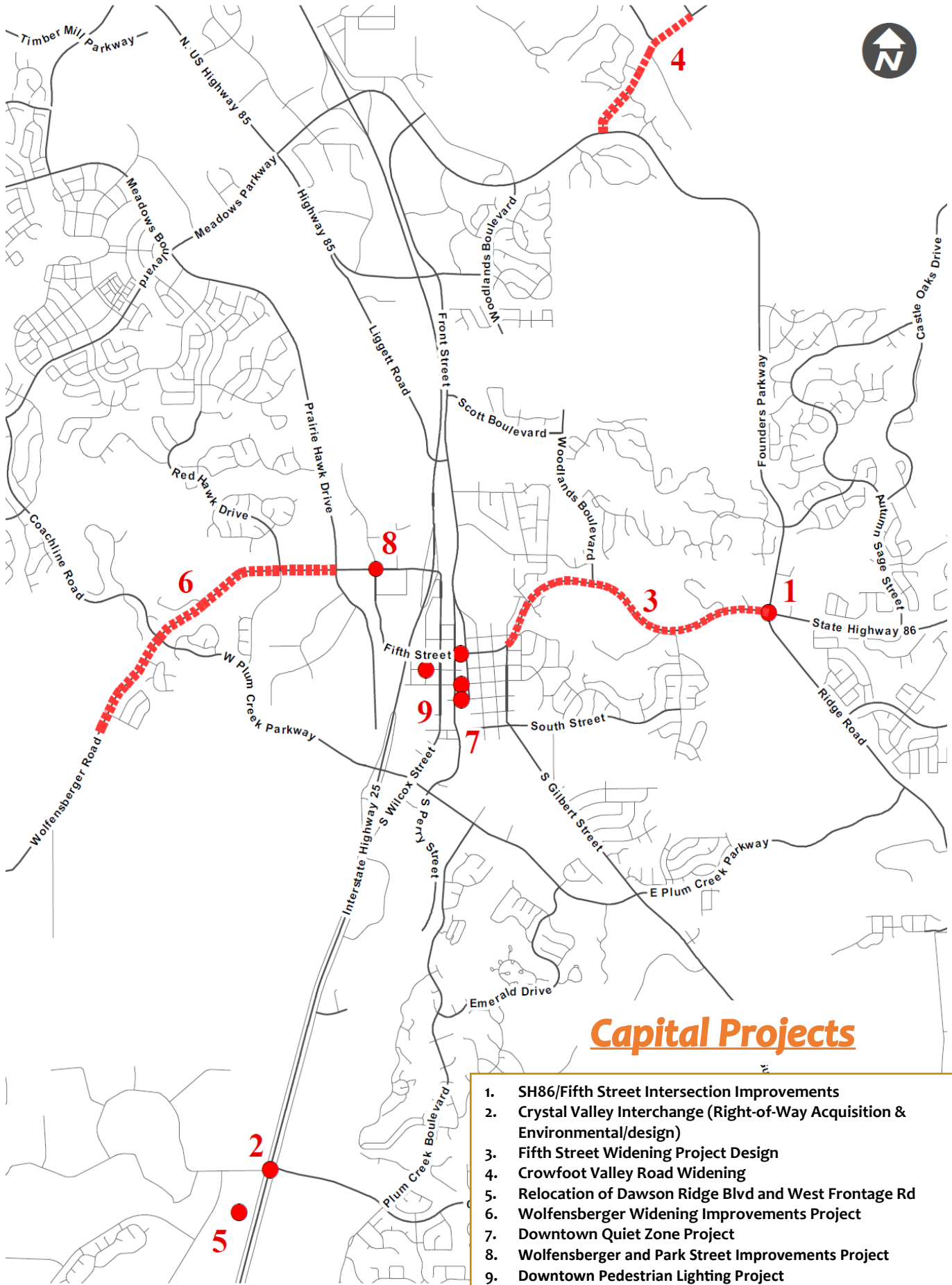
Monthly Report

August 2024

The Public Works Department operates under the **CAN DO** philosophy – We are committed to doing the job right with a positive attitude while staying dedicated to meeting the needs of our Town values and continually searching for opportunities to improve.

PW Mission: To provide outstanding service, safety and support for transportation infrastructure and maintenance.





Capital Projects

1. SH86/Fifth Street Intersection Improvements
2. Crystal Valley Interchange (Right-of-Way Acquisition & Environmental/design)
3. Fifth Street Widening Project Design
4. Crowfoot Valley Road Widening
5. Relocation of Dawson Ridge Blvd and West Frontage Rd
6. Wolfensberger Widening Improvements Project
7. Downtown Quiet Zone Project
8. Wolfensberger and Park Street Improvements Project
9. Downtown Pedestrian Lighting Project

1. Founders Parkway (SH86)/Fifth Street Intersection “Four Corners” Improvements – This project will enhance one of the primary intersections in Town. Founders Parkway, SH-86, Ridge Road and Fifth Street intersect at the project location. Each leg of the intersection is classified as a major arterial facility and the intersection is currently operating above its capacity. The improvements this project will implement include:

- Intersection will remain a full movement four-way intersection. Additional turn lanes and acceleration lanes will be added.
- Traffic signal improvements will be made to incorporate the larger intersection.
- Pedestrian and bicycle improvements will be constructed on all four sides of the project.
- Stormwater detention and water quality improvements will be constructed to capture the additional surface volume from the new intersection.

Phase: Construction

- Construction continues on all four phases
- Removals and pipe installation continue on Ridge Road
- Street lights on Fifth Street have been installed and are operational
- Median work on Fifth Street continues
- Paving of CO 86 east bound will be completed the week of Sept. 9
- Signal has been installed and is operational, final configuration will be effective upon project completion

Budget: \$12,400,000 total funding

Targeted Construction Completion: Winter 2024

2. Crystal Valley Interchange – Construction Activities – The purpose of this project is to build an interchange with I-25 in the southern end of Town which will reduce congestion at the Plum Creek interchange, on S. Wilcox and the E. Frontage Rd., and improve access to the highway for Crystal Valley Ranch, Montaine, and the future Dawson Trails developments.

Phase: Construction—Package 1

- Embankment on the north side of the new roundabout continues
- Conduit installation and stormsewer installation continues on north side of roundabout
- Finish grading and seeding to take place on all permanent slopes in Sept.

Budget: \$17,196,090.70

Phase: Design/Construction—Package 2

- Embankment placement continues on the east side of I-25 for the bridge approach
- Retaining wall for the east side bridge approach are being installed
- Bridge foundation work continues on the west side of I-25
- Lane shifts on I-25 are being coordinated

The groundbreaking event has been scheduled for September 26 on the existing Crystal Valley Parkway bridge over Plum Creek.

Budget: \$7,580,000 total Design funding

\$78,400,000 total Construction funding

Design Completion: Spring of 2024

Targeted Construction Completion: Summer 2027

3. Fifth Street Widening—Pre-construction – Fifth Street is a major arterial connecting local and regional travel between the easterly portions of Town and I-25. Roadway and pedestrian improvements for Fifth Street have been identified within the 2017 Transportation Master Plan (TMP) that will maintain adequate capacity and ensure efficient road network connections for future development.

The Fifth Street Widening Project will complete all design elements for implementation of the fully built-out transportation network from South Gilbert Street to Ridge Road as identified in the TMP. The improvements include:

- Widen to 4-lanes from Woodlands Boulevard to Ridge Road
- Add on-street bike lanes between Gilbert Street and Ridge Road
- Add sidewalks from Sixth Street to Ridge Road
- Roundabout and signal light construction at Woodlands Boulevard and Valley Drive respectively.

Phase: Design & ROW

- Town Council approved constructing the project in two separate construction phases
- Negotiations with a number of property owners continue for purchase of properties
- Closed on three property acquisitions
- Six offers made for property acquisition adjacent to Town right-of-way
- Continue Verizon communications line relocation

Budget: \$3,200,000 total funding

Design Completion: Fall 2024

Right-of-way acquisition: 2024

***Targeted Construction Completion:** Phase 1: Winter 2025, Phase 2: Fall 2029

4. Crowfoot Valley Road Widening – This project involves the widening of Crowfoot Valley Road from the intersection of Knobcone Drive to the Town boundary. The objective of this project is to reduce congestion due to current and forecasted traffic volumes, as well as safety improvements for both vehicles and pedestrians alike. The project will include:

- Roadway widening to four through lanes
- Right and left turn auxiliary lanes where warranted
- Signal at Sapphire Pointe intersection
- Complete sidewalks throughout the project corridor

Phase: Design & ROW

- Held coordination meetings with Black Hills Energy, CORE Electric, Comcast, Century Link and other utilities
- Produced property legal descriptions and legal notices to initiate property acquisitions
- Continued to progress design toward 100%

(construction ready) level

Budget: \$810,000 total funding

ROW Acquisition: 2024

Design Completion: 2024

***Targeted Construction Completion:** Fall 2025

5. Relocation of Dawson Ridge Blvd and West Frontage Rd –

The purpose of this project is to relocate the I-25 West Frontage Road to the west of the BNSF Railroad tracks to provide access to the surrounding neighborhoods and residents after the Crystal Valley Interchange is complete.

Phase: Construction – The following is a summary of the activities performed this month:

- Contractor began mass grading
- Construction of storm pipe and storm ponds began

Budget: \$11,555,000 total funding

Targeted Construction Completion: Summer of 2025

6. Wolfensberger Widening Improvements Project-

Wolfensberger Road is a major arterial connection for local and regional travel between the westerly portions of Town and I-25. Roadway and pedestrian improvements for Wolfensberger have been identified within the 2017 Transportation Master Plan (TMP) that will maintain adequate capacity and ensure efficient road network connections for future development.

The Wolfensberger Widening Improvements Project will complete all design elements for the implementation of the fully built out transportation network from the western Town limits to Prairie Hawk Drive.

- Widening roadway to a full 4-lane arterial section between Prairie Hawk Drive and Coachline/Plum Creek Pkwy. 2-lane arterial from Coachline/Plum Creek Pkwy to Town limits.
- Addition of sidewalk along both sides of Wolfensberger
- Roundabout construction at Red Hawk/Auburn and Wolfensberger Intersection
- Removal of existing traffic signal
- Stormwater drainage improvements
- Implementation of on street bike lanes West/East bound

Phase: Planning/Design

- Land appraisal reports have been completed for two parcels. Remaining reports will be completed in the next few weeks
- Notice of Intent (NOI) have been sent to all property owners
- Right of way acquisition will continue throughout 2024
- Design start up has been pushed to 2029

Budget: \$2,500,000 total funding

Design Completion: TBD

Right of Way Acquisition: 2024

***Targeted Construction Completion:** TBD

7. Downtown Quiet Zone Project - This project will implement a quiet zone through the downtown Castle Rock area. In order to implement the quiet zone, improvements must be

constructed at three railway crossings: Second Street, Third Street and Fifth Street. The scope of the improvements to be constructed with this project include: additional crossing gates, pedestrian crossing improvements, ADA improvements, sign and marking improvements, curb and gutter additions and general railroad (Union Pacific, i.e., UP) coordination. The benefits of this project will be improved safety for vehicles and pedestrians and improved quality of life for downtown businesses, residents and patrons.

Phase: Construction - The following is a summary of activities performed this month:

- Issued legal notice to Federal Railroad Administration and Union Pacific to establish quiet zone

Budget: \$1,800,000 total funding

Targeted Construction Completion: Summer 2024

Targeted Implementation: End of 2024

8. Wolfensberger and Park Street Improvements Project-

Wolfensberger Road is a major arterial connection for local and regional travel between the westerly portions of Town and I-25. Roadway and pedestrian improvements for Wolfensberger and Park Street have been identified to increase intersection operations and provide better pedestrian access to the Downtown area.

The Wolfensberger and Park Street Improvements Project will complete all design elements for the implementation of pedestrian and transportation improvements.

- Relocate traffic signal pole
- Increase sidewalk width
- Replace existing ADA ramps
- Construct additional turn lane on Park Street

Phase– Construction

- Improvements on the east side of Park Street have been completed
- Structural engineer completed redesign and realignment of the retaining wall
- Unforeseen utility relocation and a slight change in design grades have pushed the project completion date 6 weeks
- Outreach for project is being communicated through Community Relations

Budget: \$937,000

Targeted Construction Completion: September 2024

9. Downtown Pedestrian Lighting Project – This is a project to install pedestrian lights to improve public safety, visibility, mobility, and access to destinations Downtown by installing new pedestrian light fixtures to increase lighting levels.

- Staff received concurrence to award from CDOT and Town Council approved the construction contract. Next step is issuing Notice to Proceed (NTP) to Morton Electric.

Budget: \$600,000

Construction Completion: End of year 2024

**These schedules are subject to change based on adjusted revenue forecasts and results of bids received.*

Traffic Signal System Upgrades – This is a multi-year project which is on-going as funds are available. The project has included proven technology advances at signalized intersections for safety and efficient daily operations.

- Staff is a part of the CDOT managed, adaptive signal system project that has implemented adaptive signal timing on Founders Parkway, and Meadows Parkway, and Factory Shops Boulevard. Eight abutting Town signals are included in the system. Before and after comparison of travel time and number of vehicle stops in operations will be made.
- Phase II of the Town's ATSPM project includes software development and signal timing. Project acceptance testing is scheduled and project closeout and final invoicing is anticipated by Fall 2024.
- The Town is awaiting a draft IGA from CDOT for Connected Vehicle hardware to proceed with project. Once executed this two-year phase will kick off in earnest.

Budget: \$868,700

Targeted Construction Completion: April 2026

2024 Safety Project – This project includes concrete safety devices in conjunction with the Pavement Maintenance Program, installation of pedestrian crossing beacons (RRFBs) at six locations, Intelligent Transportation System (ITS) on Meadows Pkwy to warn drivers of signal changes and queue awareness, and intersection and corridor safety improvements.

- Pre-con meeting held with Adiona Transportation Systems for construction of ITS project on Meadows Blvd – Adiona procuring equipment for project.
- RRFB equipment is being assembled and installed.
- Safety improvements along Plum Creek Pkwy are on hold until other construction projects impacting traffic flow are complete.

Budget: \$410,000

Targeted Construction Completion: Winter 2024

Illuminated Street Name Signs – All the previously ordered illuminated street name signs (ISNS) and hardware have been received by the Town; staff is coordinating installation. Sign locations include: Founders Pkwy and Rising Sun, Founders Pkwy and Ridge Road (Four Corners), Wolfensberger and Park St, and Wolfensberger and Caprice. The project will be paused after 2024 due to Town budget constraints.

- CIP project at Wolfensberger and Park St will install ISNS and necessary electrical components.
- The Four Corners project has installed ISNS at this intersection.
- Town staff held pre-con with CDOT staff for installations at CDOT intersections. Founders/Rising Sun is complete and Founders/Front is in progress.

Budget: \$73,582

Targeted Construction Completion: Fall 2024

Safe Streets for All (SS4A) Safety Action Plan – The Town was awarded a SS4A grant to create a Comprehensive Safety Action Plan (CSAP). The plan aims to expand on the biennial Crash Facts Report to identify a High Injury Network (HIN) and High Risk Net-

work (HRN) and focus on making improvements in areas with a high potential for crash reduction.

- Fehr & Peers (F&P) created an interactive dashboard of crash history, and a presentation slide deck explaining the crash history and systemic analysis findings. [Project Website](#)
- Phase two for public outreach has completed, which included a public feedback survey. Follow up stakeholder meeting held in August discussed countermeasures and intersections analyzed by project.

Budget: \$300,000

Targeted Plan Completion: Fall 2024

Engineering Division

2024 PMP

The PMP continues its efforts in the West PMP area.

Sidewalk, Curb and Gutter Improvements

The contractor completed all planned quantities within contract time and under budget. Staff was able to increase the scope of work with needed repairs on curb and gutter along Plum Creek Blvd., with remaining funds. This additional scope of work began mid-August and was completed in 10 working days. Staff is working increase the scope of work for additional needed maintenance, and is anticipating to start in late September.

Asphalt Overlay Project

The contractor completed all planned quantities within contract time and under budget. A change order has been approved to increase the scope of work for needed maintenance on streets within the West PMP area.

Slurry Seal Project

Slurry Seal project was completed, with the exception of Ireland Moss. CR Water's storm sewer repair on Ireland Moss has been completed. The PMP contractors will be remobilized for the remaining sidewalk and ramp repairs in addition to completing the slurry seal on Ireland Moss in late September.



Full Depth Reclamation Project

Full Depth Reclamation concrete repair work was completed in August. Reclamation was completed on Persimmon Lane and a section of Gould Circle after which bottom mat paving was accomplished. The contractor moved their reclamation operations to Zion Ct., and Gould Circle and will continue through September.

2024 Facilities Parking Lot Improvements Program

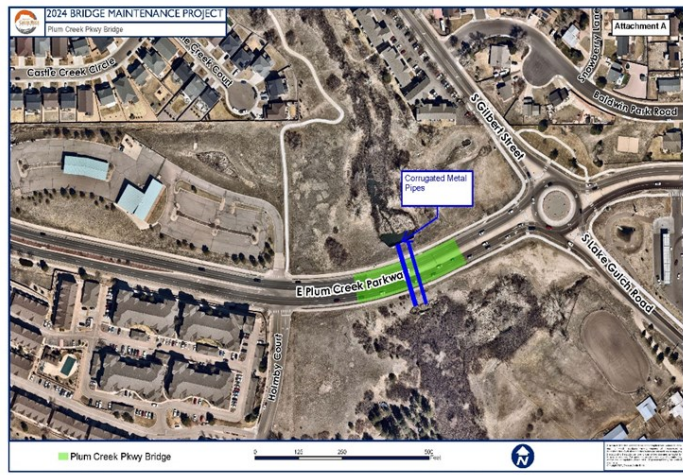
The Town Facilities Parking Lot Improvement Program will focus its efforts on seven (7) parking lots. The following Town Facilities parking lots that were approved are:

- | | |
|--|-----------------------------------|
| Crystal Valley Fire Station #152 | Bison Park Parking Lot |
| 4 th & Perry Parking Lot | East Plum Creek Trail Parking Lot |
| Seventy Street Parking Lot (Flyover) | Wrangler Park Parking Lot |
| Castle Rock Water Headquarters (Front Lot & Yard Pavement) | |

The project’s pre-construction meeting was held August 6. The Notice to Proceed was issued for September 3.

2024 Bridge Maintenance Program

The Plum Creek Pkwy bridge over Sellar's Gulch was identified for maintenance in 2024. Staff awarded the project to Critical Pipeline Repair. The project consists of lining culvert pipes, and construction is expected to begin September 16. Location of this bridge is indicated in the map below:



Transportation Planning & Traffic Engineering Division

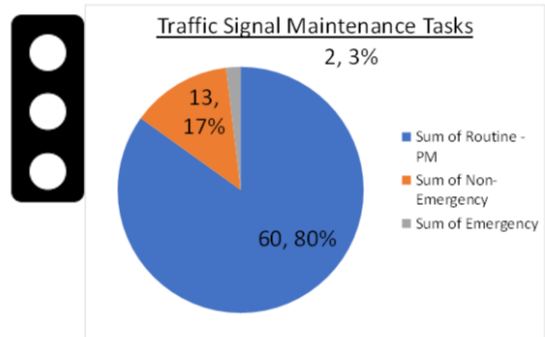
Taxi Voucher Program

For the month of August, the Taxi Voucher Program funded 105 rides; which is a 30% decrease to last year’s August total of 150,

and a 2% increase to last month’s total rides (103). Transportation services are provided for Castle Rock citizens who cannot drive, have a disability that prevents them from driving, or do not have access to a vehicle. In August, 19 individuals used the Taxi service. Of those individuals, 83% of the rides were for work, 10% for shopping trips, and 7% for medical appointments. Forty-two rides were provided for people without access to a vehicle, 21 rides to seniors, and 42 rides to disabled riders. The Castle Rock Senior Center provided a total of 959 rides in August.

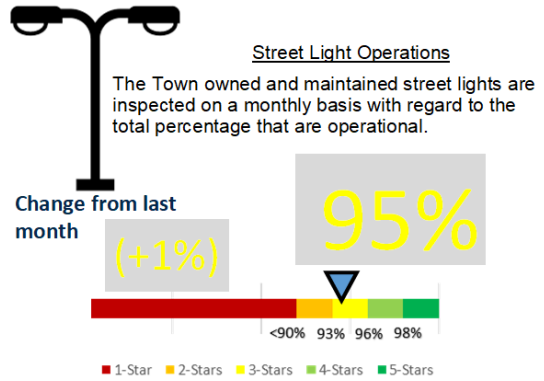
Traffic Engineering and Operations

Traffic Signal Operations and Maintenance

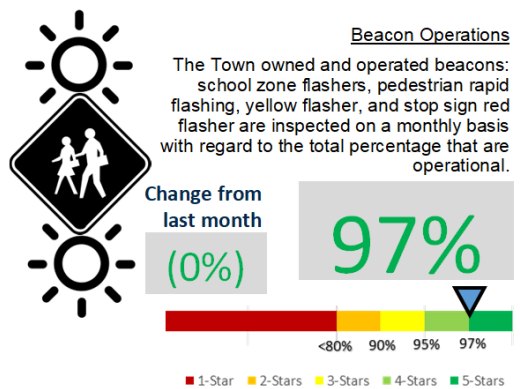


- Most frequently visited signal: 5th & Gilbert

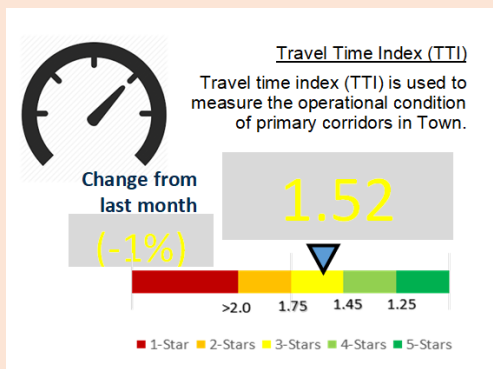
Street Light Operations



Beacon



Operations



Street Signs, Beacons and Pavement Marking Maintenance

For the month of August, the team completed 1,875 tasks. Of these tasks, 162 were sign work activities related to fabrication, installation, repair, replacements, inspections and investigations. 1597 were marking work activities related to fabrication, install, repairs, replacements, inspections and investigations. We had 49 beacon related tasks, including windshield inspections of 353 beacon assets, and repairs. Other tasks included 32 small projects, three locates, one liquor license posting, one delineator task, one core drill, two tree trimming tasks in coordination with Zoning, and six special events.

Colorado Barricade, the Town's long line marking contractor is 79% complete with white and 80% complete with yellow long lines. They are 30% complete with signalized intersection markings and 56% complete with durable markings assigned to them.

Transportation Planning

Neighborhood Traffic Calming Program (NTCP):

The NTCP exists to verify and address quality of life items associated with vehicular traffic on local neighborhood streets and certain residential collector roadways. There were three new inquiries received in August. The streets are Plum Creek Boulevard, Rising Moon Way and Tree Top Drive. The last two streets are inquiring about modifying the existing traffic calming devices which were installed by the developer during home construction. Town staff has sent out the initial support petitions to the point of contacts. Staff is still waiting for the residents to return the petitions for prior streets before the next step can occur.

Transportation Master Plan (TMP) Traffic Projection Update:

Town staff has reviewed and commented on the revised draft report, which includes the street capacity and intersection level of service analysis for eight intersections. At present the update is still on hold until more is known about the Pine Canyon rezoning proposal in Douglas County.

Transit Projects:

Federal Transit Administration (FTA) – Castle Rock Small Urbanized Area (UZA) Designation:

Town staff released the Request for Proposals (RFP) to three of the Town's on call consultants with transit experience. Proposals are due to the Town on Thursday August 29th. The study is expected to take between 8-10 months to complete. The study will explore a number of issues, including impacts of being designated a direct recipient, governance structure, funding, and conceptual services.

CDOT's Castle Rock Mobility Hub:

CDOT has RS&H consulting under contract and continues to work on the scope/hours for the first task (site selection and preliminary design). CDOT is hoping to issue the notice to proceed soon.

Front Range Passenger Rail (FRPR):

Public Works and Development Services staff met to review the material shared by the FRPR staff regarding locating future train stations. Town staff is still evaluating if there is staff capacity to conduct the train station location study in house, or a portion of the study. The station location study provided by the FRPR is only a guide and not required by the FRPR District. By leading the effort to identify potential station locations, the Town would be able to ensure community needs are met, and be better able to plan for the impacts rather than letting the FRPR and CDOT staff pick the location. The study does not mean a station will be located in Town, but it would identify possible locations if a station were to locate in Town. The FRPR District has decided to try and get the tax measure on the November 2026 ballot.

Fleet Services

As you drive around Castle Rock and see the different departments providing first-class service throughout the community, you will notice how they rely on their Town vehicles. The Fleet Division takes pride in knowing that those vehicles are reliable and safe to operate and that they are providing a service for our community and our residents. Our services support the Police and Fire Departments, Public Works, Parks and Recreation and Castle Rock Water. We also support the important functions of Development Services, Engineering, Traffic, Signs and Markings, the Recreation and Activity Center and Town Hall.

The Fleet Division continues to be busy with scheduled and unscheduled repairs and maintenance activities. Fleet completed 126 work orders in August which included preventative maintenance, warranty and vendor repairs and new vehicle services. Our cost remained steady through August with our highest expenses being capitalization of new vehicles. Vehicle and equipment availability remains high at 97%. Our technicians are producing quality work and completed most of the work orders within 24 hours. Fuel usage was also steady in August at 18K gallons total for all town departments. The Parts staff had another busy month receiving parts and supplies for all of the work in

the shop. The staff has worked hard to keep up with work order demands and manage inventories. We will start September with 43 open work orders carrying forward. There are no signs of a slow down in work orders through 2024.

New vehicle servicing continues as planned. Four new assets were put in service in August. Three of those were for the Police Department. That brings the total to 21 new vehicles upfitted and placed in service this year. The 2024 vehicle acquisition plan is getting very close to being completed. The Fleet Services Manager is currently working on the last three purchase agreements for the year. It is anticipated that all vehicle purchases, including back orders, will be completed by December.



Several new vehicles arrived and will be put in service during September. Fleet is prioritizing the build of five School Resource Officer (SRO) vehicles funded by various schools in town and approved by Town Council. The first Chevrolet Tahoe being added to the fleet will be the SRO vehicle for Aspen View Academy. This new build for the Tahoe will start in the next few weeks.



Two Police Interceptor cars were put in service in August. One went to the World Compass Academy SRO and the other is for the Douglas County Schools SRO. We are waiting for parts to install on two more Police Interceptors for Douglas County Schools SRO agreements.

The Police Department also is adding trucks to their fleet. The Fleet Division is waiting for equipment to arrive to complete these builds and get them in service. The Streets Division has replaced three of their trucks with Chevrolet Silverado's. These are expected to be in service in September.

Town Council approved the purchase of a motor grader for the Streets Division. This new machine arrived on September 4 and will be in service in a few days.

Street Operations & Maintenance Division

During the month of August, the Street Operations & Maintenance Division (SO&MD) performed work in the following areas:

- *Asphalt Maintenance
- *Road Verge Maintenance
- *Road Shoulder Maintenance
- *Street Sweeping
- *Bridge Painting

Asphalt Maintenance

Asphalt repair operations continue to be a high priority for the Division and the crews have dedicated 1600 hours to maintaining Town roadways. In all, 126.8 tons of hot mix asphalt was used for large potholes, utility cuts, transverse cracks and other road damage. Additionally, 1725 pounds of cold mix asphalt was used to repair about 115 potholes.

Road Verge Maintenance

The team continued to maintain the road verge areas adjacent to the roadway itself. Over the last month, 214 hours were spent picking up trash, weed trimming, mowing, and weed spraying over 40.6 edge line miles throughout Town. This ensures visibility if a vehicle needs to choose a place to exit the roadway as well as enhances the aesthetics along Town roads.

Road Shoulder Maintenance

The crews also spent 323 hours repairing the road shoulder. The primary focus was along Rocky View Road, Castle Oaks, and Fifth Street. The team graded and re-established drainage where needed. Where power equipment could not reach, shovels and rakes were required. About 260 tons of asphalt millings were used.

Street Sweeping

Street Sweeping is still an ongoing priority. The Downtown and business area AM sweeping program is in full swing and the Division is also responding to spill requests and other needs. During August, the crew swept 167.5 lane miles of roadways over the course of 80 hours. They removed 49.5 cubic yards of material and hauled 108.5 tons of sweepings to the landfill.

Bridge Maintenance

Streets Division routinely paints various bridges to protect and combat the effects of the road salt applied during winter operations. This year's focus is on four of the Downtown bridges. So far 202 hours have been dedicated to enhancing the appearance of the bridges as well as their corrosion resistance. This operation is currently on a seven year cycle for each bridge to be given a new coat.

Looking ahead

For the month of September, Streets Division plans to complete the Bridge Painting Operation, as well as continue with Asphalt repairs and Street Sweeping. Snow Plow training is also being planned. Mastic operations in the Knobcone area are also planned.