



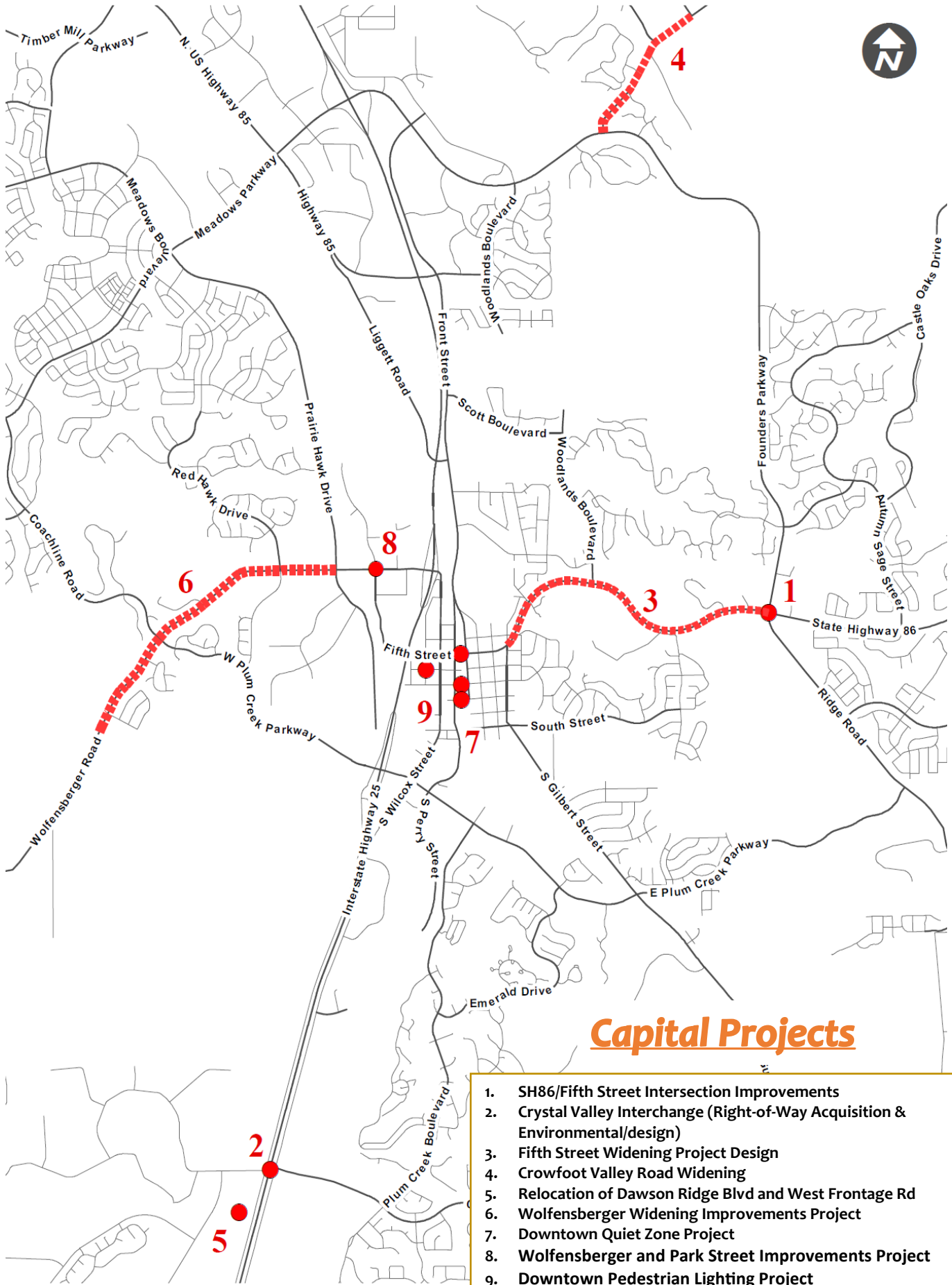
Monthly Report

July 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
- Main focus is on Fifth and Ridge for the month of August
- Soil Nail/MSE walls to get coated in August
- New signal is operational
- New street lighting is being installed on Fifth Street

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

- Package 1 is under construction and progressing on schedule
- Traffic switch onto the East Frontage Road took place on 7/31, this pattern will stay in place until January
- Work continues on embankment and storm improvements for package 1 as well as topsoil placement and stabilization of slopes

Budget: \$17,196,090.70

Phase: Design/Construction—Package 2

- Storm sewer installation on West side of I-25 to take place in August
- Embankment for NB and SB on/off ramps continues
- Bridge structure work will begin in September

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

- Negotiations with a number of property owners continue for purchase of properties
- Five offer packages being prepared by Town staff for property owner consideration
- Continue Verizon communications line relocation

Budget: \$2,700,000 total funding

Design Completion: Fall 2024

Right-of-way acquisition: 2024

***Targeted Construction Completion:** 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

- Received shipment of Sapphire Pointe traffic signal material
- Approved service agreements with land acquisitions; consultants to proceed with Right-of Way acquisitions
- Continued planning and coordination with utility companies for relocations ahead of construction

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 Rd 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:

- Notice to Proceed issued July 25
- Pre-construction meeting held July 25

- Construction to begin the week of August 5
- 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

- Appraisal and survey for property acquisitions are underway
- NOI's have been sent to all property owners
- ROW 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:

- Union Pacific completed construction of remaining safety improvements (gates) at Third Street
- Union Pacific constructed a portion of the remaining safety improvements (gates) at Second Street

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
- Traffic control switched to the West side of Park Street
- Utility conflicts in the existing retaining wall (McDonalds sanitary sewer, 2" water service line and electric lines) have made demolition of the wall difficult
- Unforeseen utility relocation and a slight change in design grades have pushed the project completion date 3 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 within the Downtown area as budget allows. This project plans to improve public safety, visibility, mobility, and access to destinations Downtown by installing new pedestrian light fixtures to increase lighting levels.

- Staff is recommending a contract with Morton Electric to complete the project. Staff is currently working to achieve concurrence to award from CDOT.

Budget: \$600,000

Targeted 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 signal system upgrade project which is on-going as funds are available. The project has included proven technology advances at signalized intersections for safety and 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. Operational adjustments were made in June at some of the Town signals.

Engineering Division

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 before Fall.
- The Town is awaiting a draft IGA from CDOT for Connected Vehicle hardware to proceed with project. Once executed this two-year project 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 Pkwy – Adiona procuring equipment for project.
- RRFB equipment is being assembled and installed.

Budget: \$410,000

Targeted Construction Completion: Fall 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 in 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 Pkwy and Rising Sun, Founders Pkwy and Ridge Road

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 Network (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 scheduled in August to discuss countermeasures and intersections analyzed by project.

Budget: \$300,000

Targeted Plan Completion: Fall 2024

2024 PMP

The PMP continues its efforts in the West PMP area.

Sidewalk, Curb and Gutter Improvements

Sidewalk, Curb and Gutter project was completed in the month of July. The contractor completed all planned quantities within contract time and under budget. Staff is working to increase scope of work with needed repairs on curb and gutter along Plum Creek Blvd with remaining funds. It is anticipated the additional scope of work will start in early August and be complete in 10 working days.

Asphalt Overlay Project

Asphalt Overlay project was completed in the month of July. The contractor completed all planned quantities within contract time and under budget. Staff is working to increase scope of work for needed maintenance on streets within the West PMP area.

Slurry Seal Project

Slurry Seal project was completed in the month of July, with the exception of Ireland Moss. Coordination continues with CR Water for storm sewer repair on Ireland Moss. It is anticipated the CR Water project will be completed in August. The PMP contractors will be remobilized for any remaining sidewalk and ramp repairs in addition to completing the slurry seal on Ireland Moss as soon as possible.

Full Depth Reclamation Project

Full Depth Reclamation and concrete repair work continued through July. Reclamation and paving were completed on, Coyote Hills Way and Elk Run Drive. Reclamation began on Soaring Eagle Ln., and Soaring Eagle Court. Contractor moved their concrete repairs operations into Dusty Pine Trail, Gypsy Moth Ct., and Gould Circle and will continue into August.



2024 Facilities Parking Lot Improvements Program

The 2024 Town Facilities Parking Lot Improvement Program will focus its efforts on seven (7) parking lots.

The following Town Facilities were approved:

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

The project’s pre-construction meeting is scheduled for August 6. The notice to proceed is anticipated to be issued in early September.

2024 Bridge Maintenance Program

Staff has determined that the Plum Creek Parkway over Sellar’s Gulch bridge was to be selected for maintenance this year. Staff awarded the project to Critical Pipeline Repair. Project consists of lining culvert pipes, and construction is expected to begin in September. Location of this bridge is indicated in the map below:



Transportation Planning & Traffic Engineering Division

Taxi Voucher Program

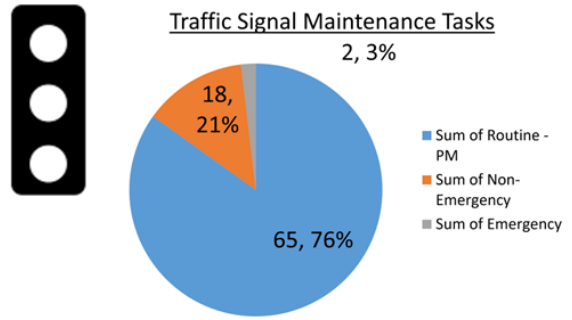
For the month of July, the Taxi Voucher Program funded 103 rides; which is a 23% decrease from last year’s July total of 135, and a 2% decrease from last month’s total rides (105). Transportation services are provided for Castle Rock citizens who cannot drive, have a disability that prevents them from driving, or do not have access to a vehicle. In July, 18 individuals used the taxi service. Of those individuals, 82% of the rides were for work,

15% for shopping trips, and 3% for medical appointments. Forty-one rides were provided for people without access to a vehicle, 35 rides to seniors, and 27 rides to disabled riders.

The Castle Rock Senior Center provided a total of 1072 rides in July.

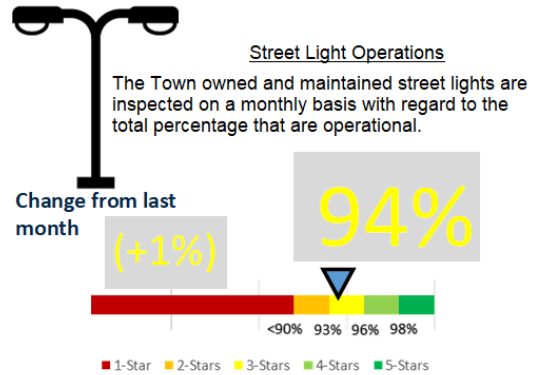
Traffic Engineering and Operations

Traffic Signal Operations and Maintenance

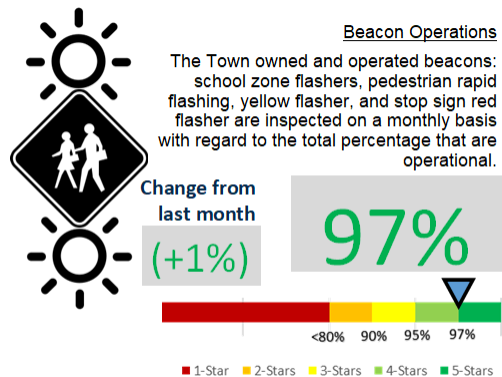


- Most frequently visited signal Wolfsberger & Prairie Hawk Dr

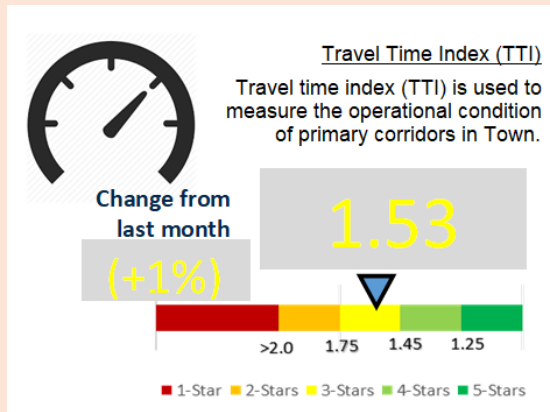
Street Light Operations



Beacon



Operations



Street Signs, Beacons and Pavement Marking Maintenance

For the month of July, the team completed 783 tasks. Of these tasks, 118 were sign work activities related to fabrication, install, repairs, replacements, inspections and investigations. Six-hundred eighteen were marking work activities related to fabrication, install, repairs, replacements, inspections and investigations. We had 13 beacon related tasks, including windshield inspections of 353 beacon assets, and repairs. Other tasks included 25 small projects, two locates, one liquor license posting, and six special events. Of the special events we provided support, including traffic control for the 4th of July Event, the MAC Concert Series parking lot, Cattle Drive and the Douglas County Fair Parade.

Colorado Barricade, the Town's long line marking contractor is 70% complete with white and 59% 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. No new inquiries were received in July. Town staff is still waiting for the residents to return the petitions for prior streets before the next step can occur. The study area for the Villageview Lane project has been identified and shared with the point of contact. The next step will be to set up a neighborhood meeting to discuss the project and process.

Transportation Master Plan (TMP) Traffic Projection Update:

Felsburg, Holt, and Ullevig (FHU) has submitted the revised draft report, which includes the street capacity and intersection level of service analysis for eight intersections. Public Works staff shared the proposed recommended projects with management. At this time the report is on hold until more is known about the

status of the Pine Canyon zoning proposal with Douglas County. In the meantime, staff is reviewing the report.

Transit Projects:

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

Town staff received feedback from the County and Castle Pines regarding the Request for Proposals (RFP). Their comments were incorporated into the RFP, which will be distributed to three on call consultants the first week in August. The study is expected to take between eight to ten 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 are still working on negotiating 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):

The FRPR staff shared an email with the Town that included train station location criteria for siting a station within Castle Rock. There was also a Scope of Work template that can be used to help select a location. The station area study template is only a guide and not required by the FRPR District. Public Works staff is meeting with Development Services staff to evaluate the ability for staff to conduct an in-house station location study. 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 a possible location if a station were to locate in Town.

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. Below is a snap shot of the Fleet Division activities this past month.

The Fleet Services Division had another busy month in July. Staff continues to perform scheduled and unscheduled maintenance and upfitting activities for the Town's vehicles and equipment. Our team completed 151 work orders with 168 repair jobs. Our heavy technician has been working hard to keep up with services, DOT inspections and unscheduled repairs. We hope to hire our vacant technician position soon to get help in this area of the shop. Our light duty technicians have done a great job keeping the fleet moving. They have completed more than 80 preventative services and 70 unscheduled repairs. The great work by the technicians has resulted in a 98% vehicle availability rate for July. Our support staff have been extremely busy procuring parts and supplies and have done a tremendous job sourcing equipment for new vehicles. We are currently reviewing purchasing agreements for parts and lubrications to ensure we are getting the best value and products.

The management team has been working on new vehicle build plans and wrapping up the 2024 vehicle purchases. Three new vehicles were placed in service for the Police Department. The Town's first two Ford F150 Police Responder trucks arrived and are being prepared for upfitting. Our first two Chevrolet Tahoe's are built and waiting for rail cars at the manufacturer. We hope to start building them sometime in September. Sourcing has also begun for vehicles and equipment in 2025. We are also preparing to auction used vehicles for this year. Decommissioning work will begin soon to strip graphics and old equipment that will be reused or destroyed.

The Town of Castle Rock Fleet Services Division is in a unique position to have the qualified staff to build our new vehicles in house. We have placed 14 new Police vehicles and 22 new work trucks in service in the past year. Our staff has done an outstanding job getting these new vehicles in service and we are proud of the work they perform for the community. Discussions are underway to explore the possibility of the Fleet Services Division taking the lead to help other agencies build their new police vehicles.



Street Operations & Maintenance Division

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

- *Asphalt Maintenance
- *Crack Seal Maintenance
- *Road Shoulder Maintenance

- *Street Sweeping
- *Special Operations

Asphalt Maintenance

Asphalt repair operations are one of the mainstays of the Division. Utility cut repairs, potholes, transverse cracks, and skim patches were all undertaken during July to address various roadway degradations and damages. The team devoted 691 hours to carrying out these repairs using 215.5 tons of Millings, 99.3 tons of Hot mix asphalt, and 1050 pounds of cold mix asphalt.

Crack Seal Maintenance

The team wrapped up the crack seal maintenance operation in the south PMP (Pavement Maintenance Program) area during July. The crew utilized 15,085 pounds of material and 15 gallons of de-tack solution to complete the remaining 20.3 lane miles of the operation. The team dedicated 890 hours to finish the task. This operation seeks to seal the cracks appearing in asphalt to minimize water intrusion and preserve the subgrade.

Road Shoulder Maintenance

The Streets crews committed 895 hours to road shoulder maintenance activities which include, trash pickup, weed trimming, mowing, tree trimming, and road shoulder repair. The personnel assigned mowed and weed trimmed 128.23 edge line miles of roadway, picked up trash along 66.79 edge line miles to fill 169 trash bags. Additionally the team repaired 5.27 Edge line miles of shoulder which had washouts and pits from erosion.

Street Sweeping

The crew dedicated 191 hours to responding to sweeping needs and carrying out the Downtown AM Sweep operations. These operations look to maintain the roadways free of debris buildup and hazards as well as preserve stormwater drainage. The Division removed 38 cubic yards from the roadway and subsequent hauling tasks disposed of 199.5 cubic yards of material. This material is hauled to a landfill after dewatering.

Special Operations

The Division assisted in the setup, break down, and clean up after a few Town events such as the Cattle Drive and Parade the next day. While performing a needed function, the crew enjoys these special events as they present a unique opportunity to witness as well as be part of a fun event.

Looking ahead

For the month of August, the Division is planning on the continuation of road shoulder operations, asphalt repair, and the Downtown sweeping program. The Team is also planning to paint a number of bridges in the Downtown area as well.