



Monthly Report

June 2020

Supporting the Town's vision by creating and maintaining world-class transportation services through a positive employee culture and personal excellence.

OUR MISSION

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

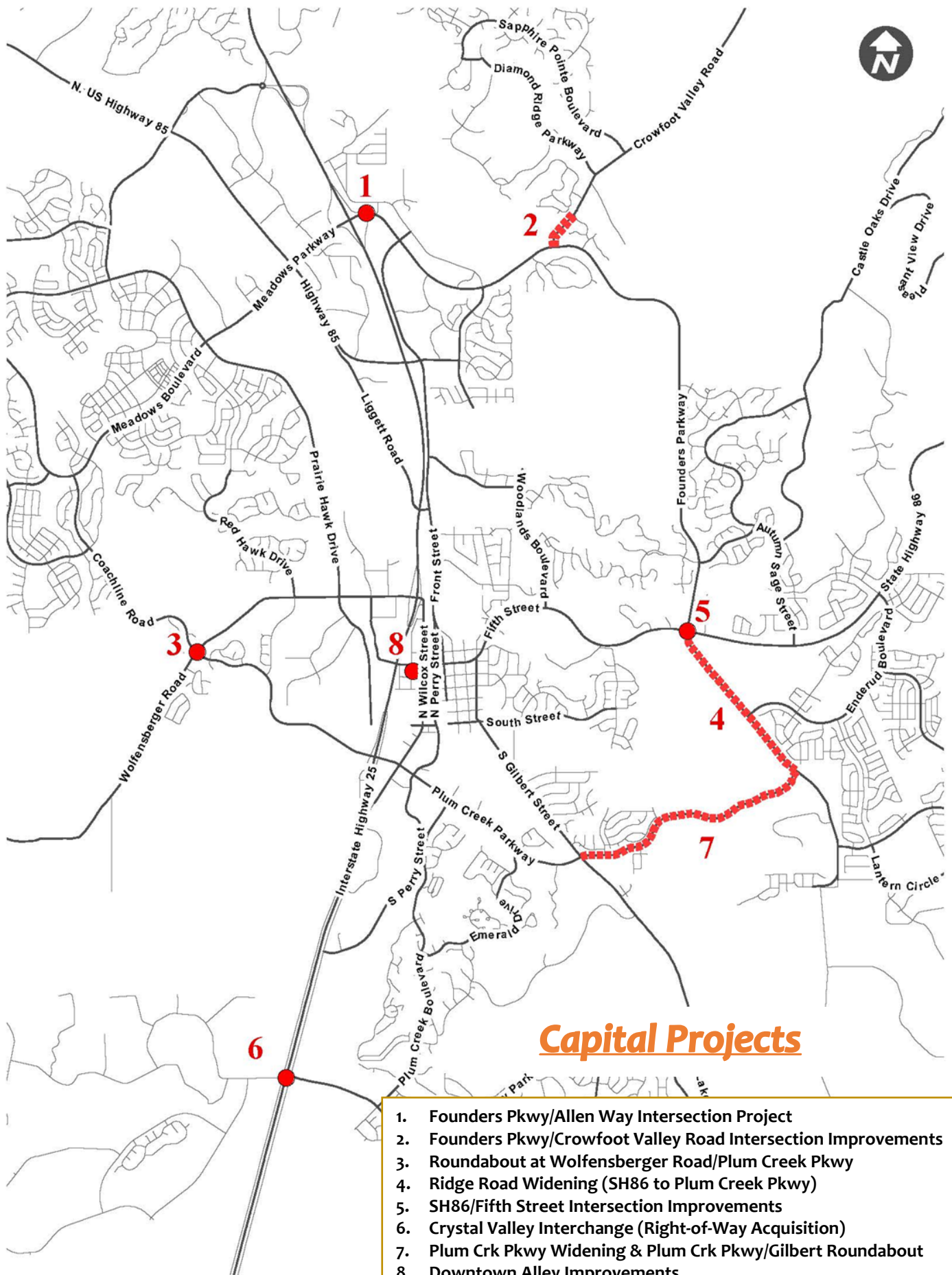


CAN DO

We are **C**ommitted to doing the job right with a positive **A**ttitude.
Meeting the **N**eeds of our Town while staying
Dedicated to our values and continually
searching for new **O**pportunities to improve.



Traffic
Engineering
Fleet
Administration
Streets
Transportation



1. Founders Pkwy/Allen Way Intersection Improvement Project – This project will address the need for the following improvements:

- An additional eastbound left turn lane from Founders Parkway to Allen Way
- A dedicated right turn lane from Founders Parkway to Allen Way
- An additional southbound right turn lane from Allen Way to westbound Founders Parkway
- An additional I-25 northbound on-ramp lane
- A second through lane at Allen Way and Allen Street

Phase: Construction – Close out phase. The following is a summary of the construction activities that took place during this month:

The Town, Contractor and property manager met on-site and finalized the landscaping restoration plan at the Panera Bread. Town staff is waiting for pricing from the general contractor to issue a change order to complete the landscaping. The Town has a no sod placement requirement for July, the sod portion of the work will need to be done in August.

Budget: \$2.64M

Construction Complete: Summer 2020

2. Founders Pkwy (SH86)/Crowfoot Valley Road Intersection Improvement Project and Crowfoot Valley Road Widening Project – This project will address the need for the following improvements:

- An additional eastbound left turn lane from Founders Parkway to Crowfoot Valley Road
- An additional northbound lane on Crowfoot Valley Road between Founders Parkway and Knobcone Drive
- A southbound free right turn lane from Crowfoot Valley Road to westbound Founders Parkway
- Widen Founders Parkway both eastbound and westbound between the Crowfoot Valley Road and Woodlands Boulevard
- Widen Crowfoot Valley Road from Founders Parkway to Knobcone Drive

Phase: Construction, Intersection Improvements: Close out phase. The following is a summary of the construction activities performed this month:

- The contractor continues to work on general punchlist items
- Stabilization and seeding is scheduled to start week of June 22
- Once completed with seeding, closeout to be completed with CDOT

Budget: \$3,550,000

Construction Completion: Summer 2020

3. Wolfensberger Road/Plum Creek Parkway Roundabout Project – This project will accomplish the design and construction of a roundabout at this intersection to improve operations and minimize accident potential.

Phase: Closeout – Substantial completion was issued in Spring 2019. Punch list items are complete. The Town is working with the adjacent property owners to complete the final landscape tie-ins and adjustments. The Town is working with the property owner's process to pay for these services and the completions of the landscaping.

Remaining Budget: \$120,000

4. Ridge Road Widening – Ridge Road will be widened from two to four lanes between the Founders Parkway (SH86)/Fifth Street/Ridge Road intersection and Plum Creek Parkway. The goal is to reduce traffic congestion on the Ridge Road corridor.

Phase: ROW acquisition phase: 100% plans have been provided. The consultants continue to work on ROW acquisition. Staff submitted the project construction plans to IREA to initiate their design for relocation of facilities and providing power to the streetlights.

Budget: \$400,000

ROW Acquisition: Winter 2020

5. Founders Parkway (SH86)/Fifth Street Intersection "Four Corners" Improvements – With new traffic studies submitted, the Town, and CDOT will continue to investigate multiple alternatives to address safety concerns and capacity issues at this intersection.

Phase: Design –

- The DRCOG grant was awarded to the Town.
- Project will be designed per Federal requirements/standards.
- CDOT stated that they do not have the capacity to manage this project. Requests for proposals from engineering firms to design the project and to provide federal administration oversight will occur.
- Pending RFP—to be solicited on BidNet in July.

Budget: \$1,200,000 for design in 2020 with DRCOG Grant Reimbursement (Town share \$240,000)

Design Completion: Late 2021

6. Crystal Valley Interchange – Right-of-Way Acquisition – The purpose of this project is to achieve acquisition of remaining right-of-way and set aside future project funding partnerships to assist with advancing construction.

Phase: Right-of Way Acquisition

- Acquisition Services
 - o East Side of I-25 – Offers continue to be sent out. Several properties are in the negotiation phase. several properties on the east side have been acquired.
 - o West Side of I-25 – Town staff and consultants are preparing notices of intent for several property owners.

Phase: Interchange Design, Access Request and Environmental Assessment

- Town preparing RFP for full design of interchange, anticipating advertisement in August

- Town staff continues to meet with CDOT and FHWA to established priority activities for the interchange approval for Scope of Work.

Budget: \$4,600,000, and Development Escrow

Completion: Winter 2020

7. **Plum Creek Parkway Widening and Plum Creek Parkway/Gilbert Street Roundabout Project** – This project will implement the Transportation Master Plan’s identified improvements for this corridor. The addition of the remaining two lanes of the master planned four-lane roadway on Plum Creek Parkway between Eaton Street and Ridge Road. Not only will it include the addition of 2 lanes, but also bicycle and pedestrian multi use lanes. It will also include roundabout modifications at Ridge Road.

Phase 1A: Storm drain system construction - The following is a summary of activities performed this month:

- Town staff is inspecting punchlist work for final acceptance
- Storm pipes being inspected for condition and recording deficiencies for correction.

Budget: \$1,158,300

Construction Completion: Summer 2020

Phase 1B: Roadway package: Construction - The following is a summary of activities performed this month:

- Crews will remove overhead power lines at the intersection with Gilbert
- Excavation for the new eastbound lanes will continue to the east
- Storm drainage installations will continue at the intersection of Plum Creek & Gilbert
- Staff issued Change Order to add temporary signalization of the intersection to the contract in order to reduce traffic congestion during construction
- Continued utility coordination for utility relocations
- The project is targeting the commencement of new asphalt for the new eastbound Plum Creek lanes in July, and a traffic switch by early August

Budget: \$6,817,145

Construction Completion: Winter 2020

Phase 2: Widening Plum Creek Parkway from Eaton to Ridge Road – Designer Kimley-Horn, ROW Acquisition Western States– The following is a summary of design activities performed this month:

- Scoping to define constraints of future development considerations
- Worked with Kimley-Horn to refine a proposal for additional design efforts required to complete design
- Began evaluating required environmental permitting.
- Began evaluation of typical section in order to make adjustments to fit improvements within current Town ROW.

Budget: \$794,375

Design & ROW Completion: Summer 2020

8. **Downtown Alley Improvements:** Four alleyways in the downtown area are beyond their service life and are not providing an appropriate level of service. Reconstruction of alley pavement in addition to drainage improvements and sanitary sewer system replacement will renew the service life of both the pavement and sanitary sewer in the area. The construction will be phased over two years. The four alleys currently under design are:

- 2 Alleys (Westerly Alleys) – Located West of Jerry St. between 5th and 3rd streets
- 2 Alleys (Easterly Alleys) – Located East of Perry St. between 6th and 4th streets

Monthly Progress & Status

- Continuing to coordinate public outreach efforts
- Final (90%) design is complete for the Westerly and Easterly alleys
- Town of Castle Rock stakeholders have completed their final design review and returned comments
- Final utility investigation (SUE) is completed

Target Milestones

- **Phase 1 Construction (western alleys) – Late Summer 2020**
- **Phase 2 Construction (eastern alleys) – Summer 2021**, subject to budget approvals

Budget: \$900,000

Traffic Signal System Upgrades –

This project is a multi-year signal system upgrade that began in 2015 and is ongoing as funds are available. The project has included proven technology advances at signalized intersections, for our daily operations, and for communications between the center and each intersection.

CDOT has installed travel time monitoring devices on the Meadows/Founders Pkwy corridor and Wolfensberger and I25 signals. Town staff are working with CDOT ITS and the vendor, Trafficast, to get the software programmed for the devices and data reporting to CDOT and then replicated on the Town’s server.

- Vehicle detection equipment replacements are complete on Wolfensberger Road and the new detectors are reporting to the Town’s signal performance metric platform,
- Meadows Parkway and Meadows Blvd vehicle detection equipment replacement was completed in June.
- We are scheduling vehicle detection replacements at Plum Creek Parkway and Plum Creek Boulevard, to remove the detection equipment that the Town was trialing and replace it with the Town standard system. The detection system trial has been moved to Front and Black Feather.
- Town staff is working on a grant application for the DRCOG traffic signal system call for technology projects for fiscal years 2021-2023. Our project is upgrading detection with advance vehicle detection on regional cor-

ridors, and expand the use of automated traffic signal performance metrics (ATSPMs) to improve operational efficiency and safety.

Budget: \$125,000

Construction Completion: Winter 2020

2020 Intersection Signalization Construction Project – This project is the construction of one new signal in 2020 at Meadows Boulevard & Cherokee Drive.

- IREA installed the power transformer at the new intersection.
- Construction bid documents will be updated for a late July bid posting.
- Staff has engaged consultant to design a span wire signal at Liggett and Old Hwy 85. If the timing and budget can accommodate, we are considering an option to add this signal as an addendum to the signal construction bid in 2020 to reduce cost and add efficiency to construction process.

Budget: \$305,000

Construction Completion: Winter 2020

Rectangular Rapid Flashing Beacon (RRFB) 2020 Project – This project addresses the requested pedestrian beacon crossing locations that staff received in 2019 at the 10 highest priority locations.

- In June, we ordered beacon equipment and entered into a contract with Colorado Barricade for install.
- Community Relations sent two social media posts, one about the project, the other more educational about RRFB use by vehicles and pedestrians.
- Advanced signage and other supplement signage for 2021 locations was complete.

Budget: \$305,000

Construction Completion: Late Summer 2020

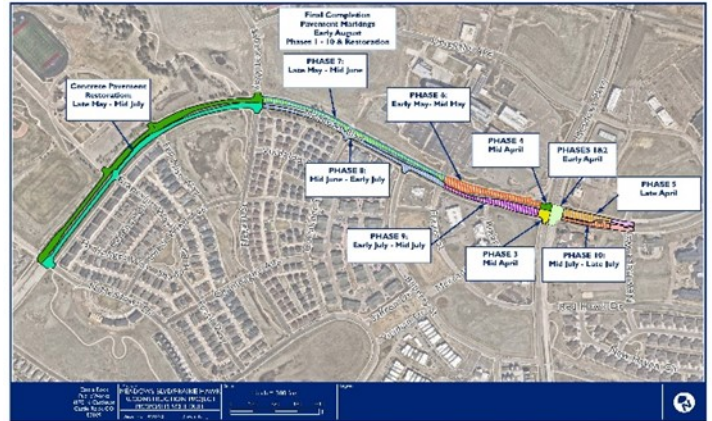
Engineering Division

2020 Pavement Maintenance Program (PMP)

The 2020 PMP is focusing its efforts in the Central PMP area with additional work taking place on primary streets (Meadows Boulevard, Prairie Hawk Dr., Factory Shops Blvd., and Park Street).

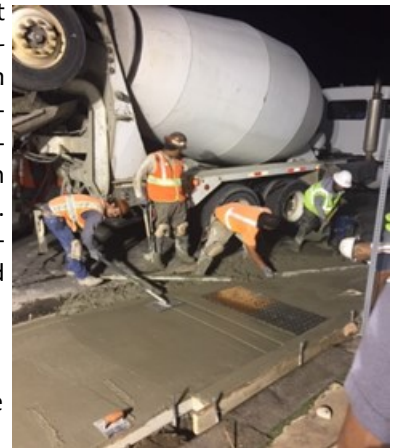
In general, the month of June saw three PMP projects completed early, while another progressed ahead of schedule. The combination of early school closures, reduced traffic volumes and

favorable weather that was conducive to construction, aided in achieving the project status' noted below.



Meadows Blvd/Prairie Hawk reconstruction project began on Monday, April 6. The contractor was able to complete existing concrete removal and pave the intermediate and bottom mats in phases 1-8. Subgrade will be cement treated in remaining phases 9&10 in preparation of asphalt paving. The contractor has tentatively scheduled the final top mat paving for the week of July 13. Penhall Co. began concrete pavement grinding on the portion of Meadows Boulevard between Sabercat Way and N. Meadows Drive on Tuesday, June 16. Grinding continued through the month of June, and is being followed by joint sealing. Currently, project is on track to be completed under budget and ahead of approved contract time indicated by the overall map below.

The **Asphalt Overlay** project began construction with concrete repairs on April 6 on Factory Shops Blvd. The project was substantially completed on Friday, June 19 with the completion of Park Street. The contractor will be addressing punchlist items and clean up through the month.



Sidewalk, curb and gutter project was completed in the month of May. The contractor completed all punchlist items. The project came in under contract time and budget.

Full Depth Reclamation project was completed in May. The contractor completed all punchlist items. The project came in well under contract time and budget.

2020 Facilities Parking Lot Improvements Program

This contract saw the reduction to the scope of work that was originally bid. The Parks Department, Public Works Service Cen-

ter and Golf Course made the decision to cancel the parking lot improvements due the COVID-19 pandemic. However, Castle Rock Water decided to go forward with their parking lot improvements. The parking lots include the following:

- Milestone Pump Station (Founders Pkwy)
- Miller Treatment Plant (Plum Creek Blvd)
- Prairie Hawk Well Field (A7)
- Castle Oaks Lift Station

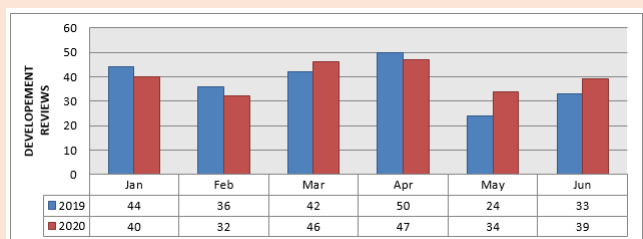
Work is schedule to begin in August and continue through September.

2020 Bridge Maintenance Program (BMP)

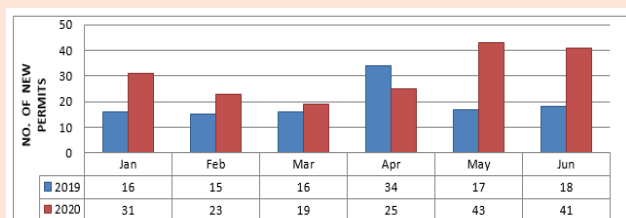
Consideration is being given to deferring, The work on the Fifth Street bridge over I-25 until 2021 in order to address additional issues that require I-25 Hwy access to the wetlands/Preble mouse habitat along Plum Creek. Required forms, special permits and an opinion of probable costs are in the process of being obtained from the consultant.

Development Review and Permitting

Development Review - All 39 reviews were completed on or before the due date by the PW Development Services Team.



Permitting & Inspection – 41 right-of-way permits were issued and over 200 inspections where conducted.



Transportation Planning & Traffic Engineering Division

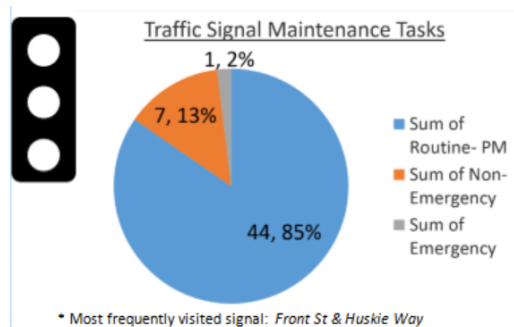
Taxi Voucher Program

For the month of June, the Taxi Voucher Program funded 145 rides; this was roughly a 17% increase from last year's June total of 125 rides and a 40% increase from last month's total rides. 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 June, 19 individuals used the Town's Taxi service. Of those that used the service, 67% of the rides were for work, 10% were for shopping trips, and 23% for medical appointments. There was one new rider that registered for the service raising the total of registered riders to 438 in the Taxi Voucher Program.

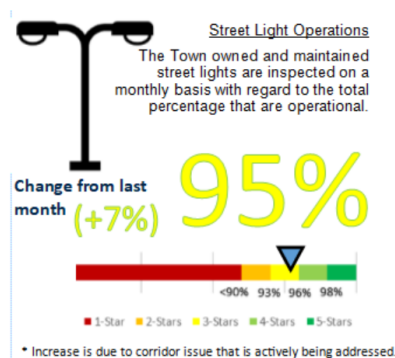
The Castle Rock Senior Center provided a total of 339 rides in May. The Senior Center is still offering seniors reassurance calls, and grocery shopping and delivery service, as wells as prescription pick-up and delivery service due to the COVID-19 impacts.

Traffic Engineering and Operations

Traffic Signal Operations and Maintenance



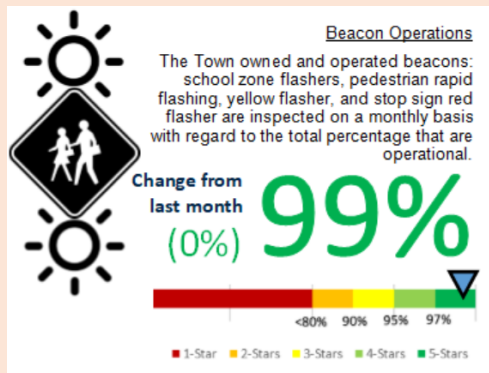
Street Light Operations



Beacon



Operations



Street Signs and Pavement Marking Maintenance

During the month of June the crew accomplished 1094 tasks. Of these tasks 123 of them were sign work activities related to fabrication, install, repairs and replacements. 730 of these tasks were pavement marking work activities related to investigations, inspections, replacements, original install and retirements. Five tasks were traffic counts and 32 tasks were for miscellaneous projects. We also completed 102 RRFB windshield inspections.

The long line contractor (double yellow and white lines) is essentially done with the first round of long line striping with a few items left for punch list items. Crosswalks, stop bars and symbols at signalized intersection have begun and will continue into July.

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 collector roadways. There was one new traffic calming inquiry in June for Morning Glory Drive. The homeowner has been contacted and informed about the program. A support petition was provided to the homeowner and staff is waiting for it to be returned. The following provides updates for the two active projects;

- **Diamond Ridge Pkwy:** The Diamond Ridge Parkway traffic calming plan will consist of 2 raised center medians. A study area mailer will be distributed to homeowners in the study area sharing the plan. Voting ballots will also be sent to homeowners fronting Diamond Ridge Parkway along the impacted area later this month. If the homeowners vote to approve the plan, Town staff will begin finalizing the design and try to schedule construction later this year.
- **Bittern Street / Loon Circle:** Town staff is working to implement the neighborhood's approved plan that will replace the existing circles on each street with a speed cushion. Town staff help a pre-construction meeting in May to begin coordination of the work. Construction will be complete this summer.

Castle Rock Transit Feasibility Study:

Town staff has been working with the consultant team and private sector microtransit providers on evaluating the three service models that are being further analyzed. A Technical Advisory Committee meeting and Focus Group Meeting are planned for July to go over the analysis. The next step will be to share the analysis with the public and stakeholders to collect their feedback.

Fleet Services

Keeping Castle Rock on the Move



As you drive around Castle Rock and see many different departments providing first-class service, you will notice how they rely on their Town-issued vehicles. The Fleet Division takes great pride in knowing that those vehicles are reliable and safe to operate.

Fleet Services Division continues to make sure that Town vehicles and equipment are ready for operation. This includes public safety vehicles like Police & Fire but also other department vehicles that need to be in use to provide great service for our residents. The fleet division is proud to announce that we achieved a Notable Fleet recognition from the Government Fleet Magazine's Leading Fleets program. This put our fleet program in the top 100 in the nation among the 12,000 fleets that applied. This made Castle Rock only one of three to make the list. Fleet staff also completed a successful auction and sold two old Town vehicles for a total of \$28,000.

The Fleet Division was very productive and that shows in our

benchmark comparisons listed below. The Fleet Division billed out \$84,000 of parts and labor and completed 128 work orders. As well as meeting the following objectives and benchmarks:

Objective/Benchmark: Complete at least 75% of our Work orders within 24-hours of coming to shop.

Outcome: Fleet team completed 81.1% of the work orders within 24-hours of opening repair requests or service requests. This benchmark number shows how quickly vehicles and equipment get serviced and repaired and back on the job.

Objective/Benchmark: Town vehicles and equipment available for use 95% of time.

Outcome: Town vehicles and equipment were available 97.2% of the time. This high fleet availability rate means that Town vehicles and equipment are ready when they are called upon to perform.

Objective/Benchmark: Technician productivity percentage of 70% (APWA standard).

Outcome: Technician productivity was 73.5%. Very high productivity well above our benchmark.

Overall we completed 128 work orders and processed \$84,000 in parts and labor and another \$21,000 in fuel transactions. The fleet parts division returned a large number of obsolete parts and received a credit of \$2,000. Fleet technicians Chris Selheim, Eric Dena, Rod Claassen, and Caleb Wood all completed comprehensive diesel training from ATA.



New tractor for the Parks Department

Street Operations & Maintenance Division

During the month of June, the Street Operations & Maintenance Division (SO&MD) responded to multiple cleanup operations due to high winds, heavy rains and concrete spills while also performing work in the following maintenance operations:

- Asphalt
- Trash Pick up
- Mowing
- Sweeping
- Crack Seal Operations

Asphalt repair

In the month of June, Crews completed full depth asphalt patching on Perry St., as well as other areas in town. They also filled transverse cracks in the Terrain neighborhood, as well as others, and potholes throughout Town, using a total of 23 tons of hot mix asphalt.

Trash Pick up

During the month of June, the team cleaned up 8 miles of verge area and collected 28 trash bags full of garbage littering the road shoulders; this enhances the appearance of the Town and prevents mowers from running it over.

Mowing

In June, the streets team completed the first round of mowing and trimming of the verge areas. In all crews covered 109 miles of edge line. This operation improves driver visibility, helps to mitigate fire risk by creating wider firebreaks at roadways and helps to keep the Town looking sharp. The crew also continued to spray for noxious weeds as well as remove vegetation from the roads to be crack sealed.

Sweeping

The Spring Sweep program concluded in June with the crews completing the final portion of Town roadways. Crews also swept the business areas and cleaned up due to strong winds and heavy rain. In all the team swept up 256 lane miles of roadway, removing 15 tons of debris in the process.

Bridge Maintenance

In June, Streets Division personnel completed the cleaning of the east bound Meadows Bridge in preparation for our annual bridge maintenance. The team also worked to secure some loose treads on the pedestrian bridge on Oman. Crews have now begun to mitigate any rust spots and will begin to prime and paint the bridge in July.

Crack Seal Maintenance Operations

Crack seal operations went into full swing in May. During the month of June, crews completed 39 lane miles of 78 planned, leaving just 17 lane miles in the Founders area for this season's Preventative Maintenance Program. With assistance from Community Relations and with the use of variable message boards borrowed from the Signs and Markings Division, crews have worked diligently to notify the folks of their crack seal schedule.