



Pavements

Traffic  
Control

Sidewalks

Street  
Lights

Traffic  
Signals

Structures

Verge

Fleet

# PAVEMENT MAINTENANCE PROGRAM

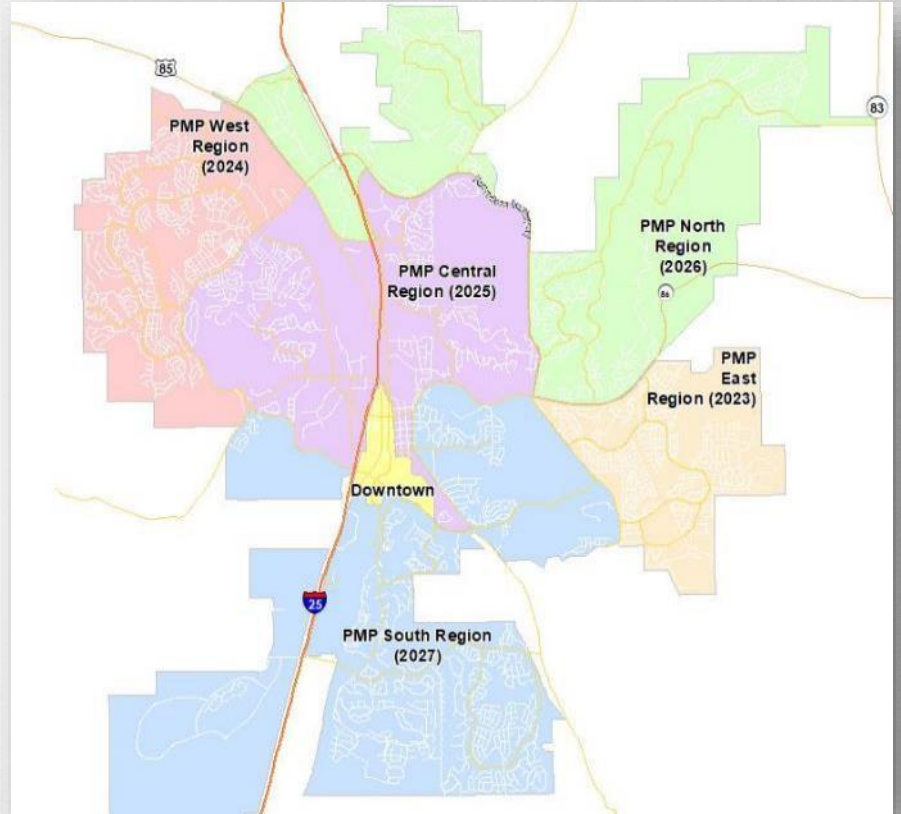
MARCH 21, 2022



# PMP APPROACH

Primary St's. &  
Downtown (any year)

Residential streets  
(5-yr rotation)





## Slurry Seal Project



## Slurry Seal - Asphalt Patching and Crack Sealing





## Asphalt Mill and Overlay



## Reconstruction/ Full Depth Reclamation (FDR)

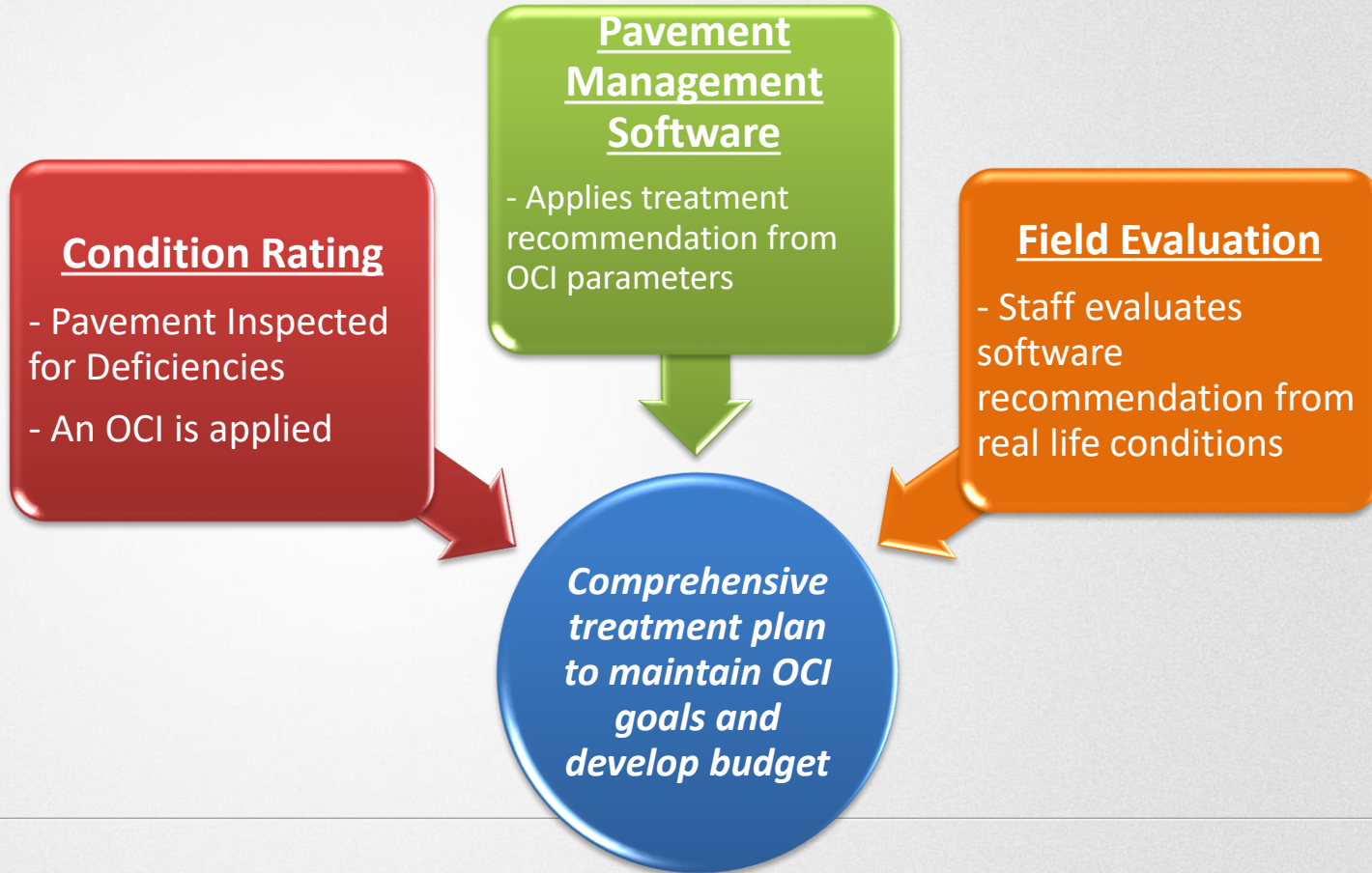




## Curb, Gutter & Sidewalk Replacement



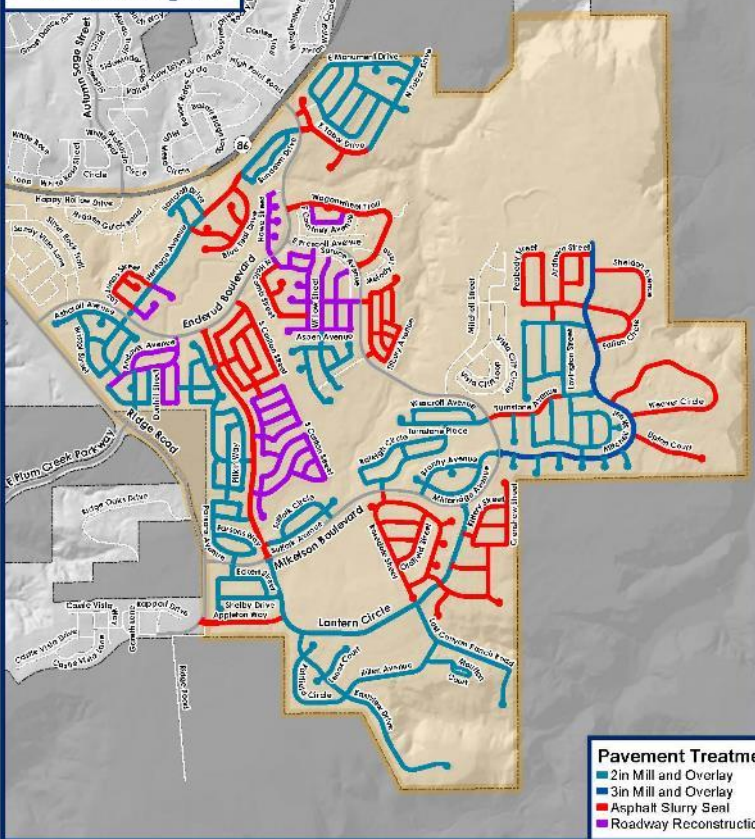
# How is Roadway Maintenance Determined?



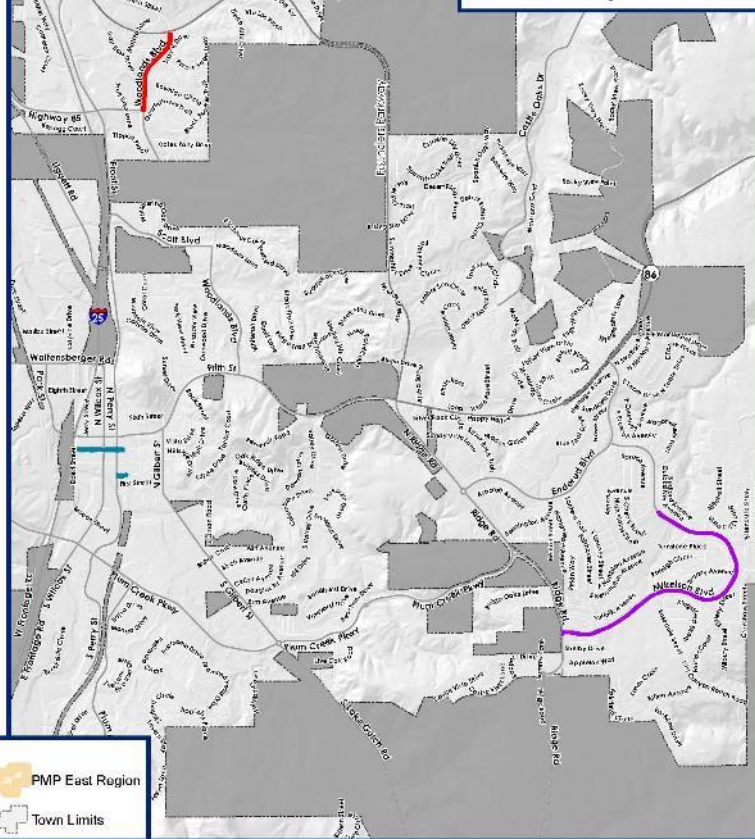


## 2023 PAVEMENT MAINTENANCE PROGRAM (PMP) TREATMENT PLAN

## PMP East Region



### PMP Primary/Downtown



EXAMPLE: THE NEW YORK PUBLIC LIBRARY, ASTOR LENOX TILDEN FOUNDATION, 400 FIFTH AVENUE, NEW YORK, NY 10018-2710. THE NEW YORK PUBLIC LIBRARY, ASTOR LENOX TILDEN FOUNDATION, 400 FIFTH AVENUE, NEW YORK, NY 10018-2710. THE NEW YORK PUBLIC LIBRARY, ASTOR LENOX TILDEN FOUNDATION, 400 FIFTH AVENUE, NEW YORK, NY 10018-2710.

# 2023 PMP COST SUMMARY

## FUNDING SOURCE; TRANSPORTATION OPERATIONS AND MAINTENANCE BUDGET

❖ PMP Total Budget	\$18,500,000
❖ PMP Bid Amounts	(\$16,584,128)
❖ PMP Contingency	(\$1,658,414)
❖ Misc. Concrete	(\$257,458)
❖ PMP Program Remaining Amount	\$0.00



# PMP SCHEDULE

- ❖ Award of Contracts in March
- ❖ Open House for East PMP Region, March 23
- ❖ Downtown Coordination with the DDA and Businesses, February and March
- ❖ Project Start Dates
  - Early to mid-April – Full Depth Reclamation, Asphalt Overlay, and Curb/Gutter/Sidewalk Replacement
  - Mid June - to July –Slurry Seal
  - Late August to September – Town Facilities and Miscellaneous Concrete
- ❖ Program Fully Complete by End of October

# PARKING LOTS

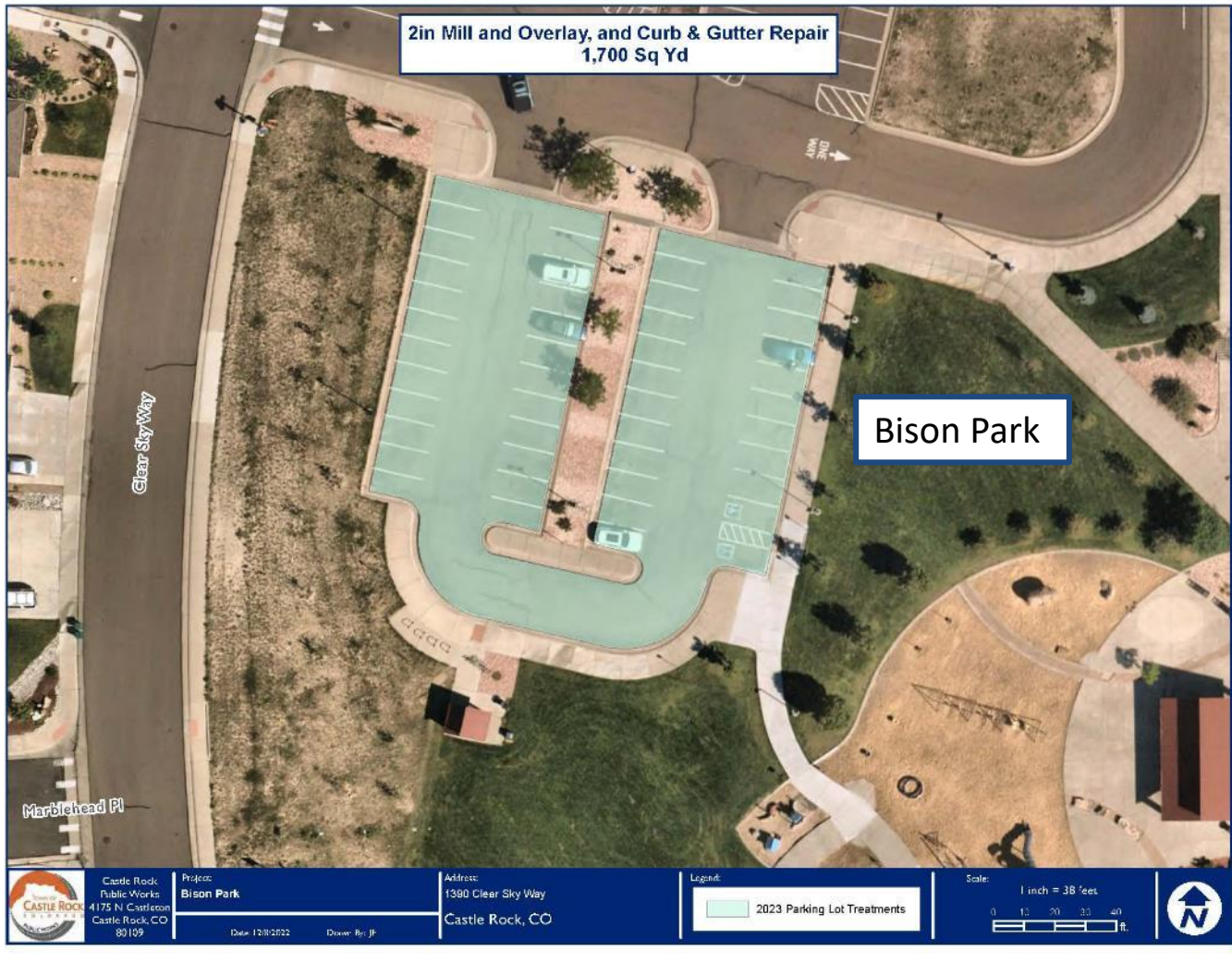
MARCH 21, 2022





# OVERVIEW

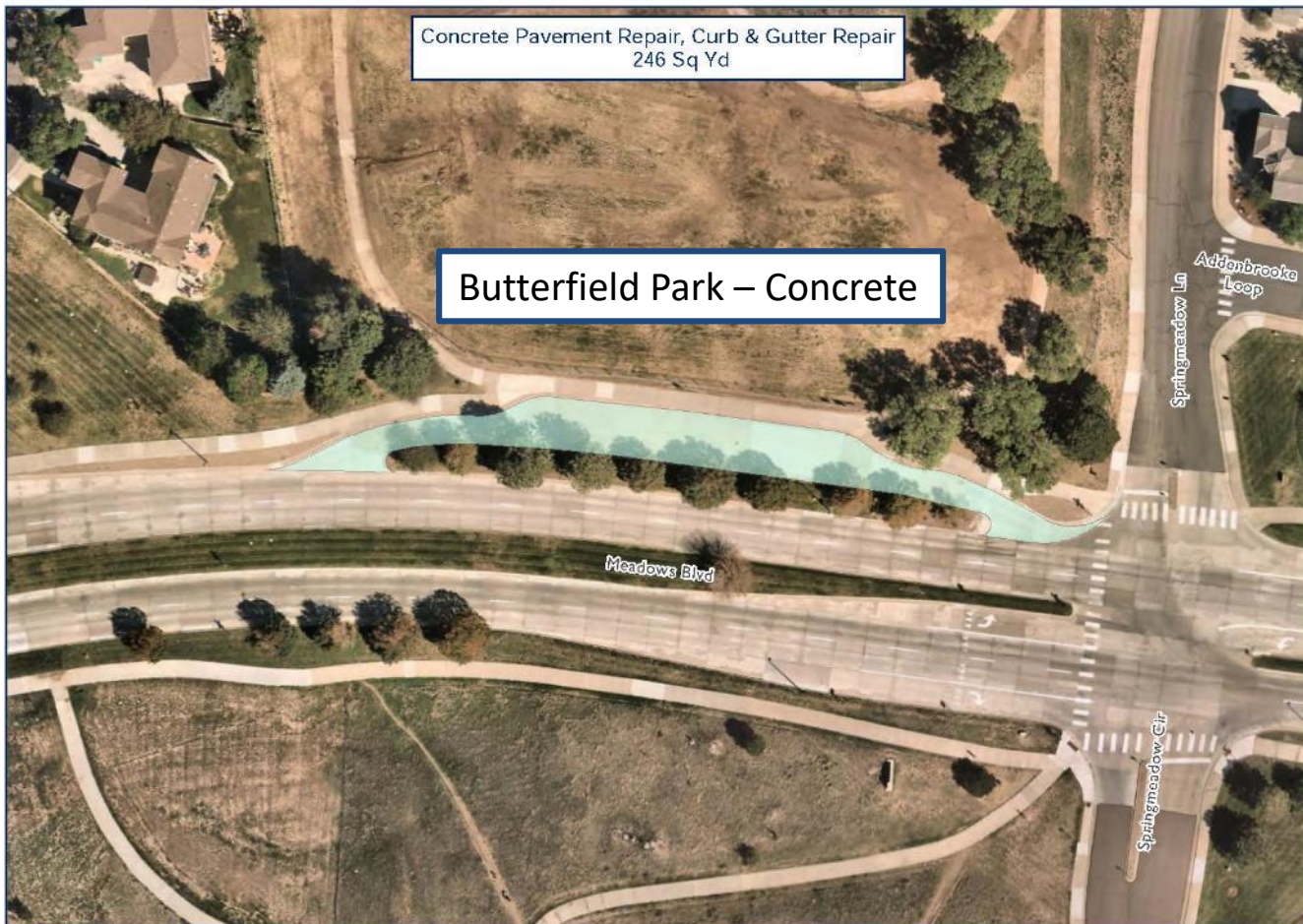
- ❖ Individual department ownership
- ❖ Five Year Cycle: Evaluation and Treatments





Concrete Pavement Repair, Curb & Gutter Repair  
246 Sq Yd

## Butterfield Park – Concrete



Castle Rock  
Public Works  
4175 N Castlecon  
Castle Rock, CO  
80109

Project:  
Butterfield Park

Date: 12/8/2022

Drawn By: JP

Address:  
NW Corner Meadows Blvd & Springmeadow Ln  
Castle Rock, CO

Legend:

2023 Parking Lot Treatments

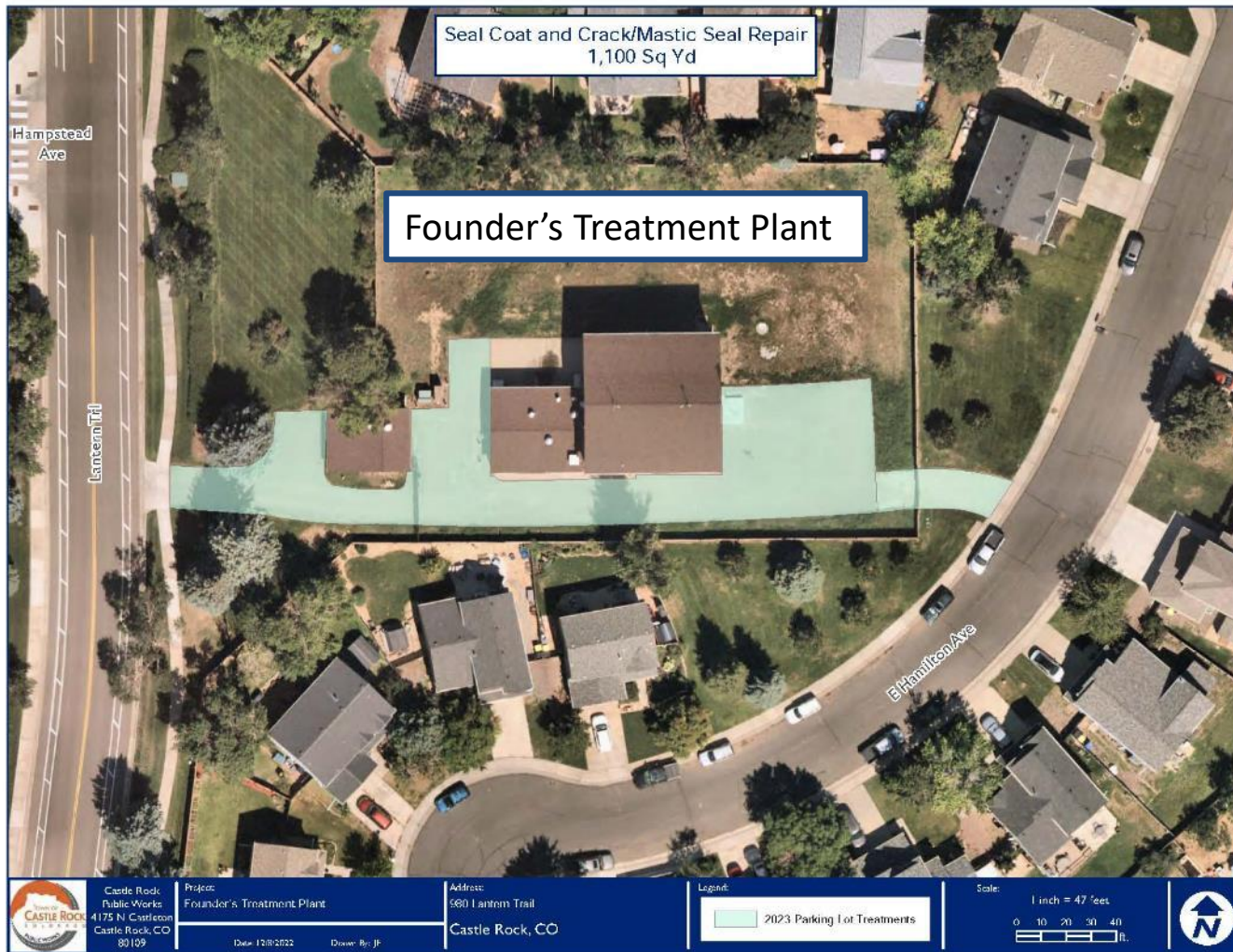
Scale:

1 inch = 59 feet

0 10 20 30 40  
feet









Concrete Pavement Replace- 500 Sq Yd, FDR- 800 Sq Yd, Curb & Gutter Repair

## Founder's Village Fire Station



Castle Rock  
Public Works  
4175 N Castlecon  
Castle Rock, CO  
80109

Project:  
Founder's Village Fire Station

Date: 12/8/2022

Drawn By: JP

Address:  
5463 F Sovereign Street  
Castle Rock, CO

Legend:

2023 Parking Lot Treatments

Scale:

1 inch = 60 feet

0 10 20 30 40  
feet







Full Depth Reclamation, and Curb & Gutter Repair  
2,950 Sq Yd

Sapphire Pointe Blvd

Gemstone Park



Concrete Pavement Replace- 907 Sq Yd, 2in Mill and Overlay- 555 Sq Yd, Curb & Gutter Repair

Prairie Hawk Fire Station



Castle Rock  
Public Works  
4175 N. Charleston  
Castle Rock, CO  
80109

Project:  
Prairie Hawk Fire Station

Date: 12/5/2022

Drawn By: JF

Address:  
3801 Prairie Hawk Drive  
Castle Rock, CO

Legend:

2023 Parking Lot Treatments

Scale:

1 inch = 62 feet

0 10 20 30 40  
ft.







Castle Rock  
Public Works  
4175 N. Castleton  
Castle Rock, CO  
80109

Project:  
Ray Waterman Treatment Plant

Date: 12/6/2022 Drawn By: JF

Address:  
1282 Castle Oaks Drive  
Castle Rock, CO

Legend:

2023 Parking Lot Treatments

Scale:

1 inch = 82 feet





Concrete Pavement, Crack & Mastic Seal, and Seal Coat Repair  
360 Sq Yd

Weaver II Well Field

Wagonwheel Trl



Castle Rock  
Public Works  
4175 N. Castleton  
Castle Rock, CO  
80109

Project:  
Weaver II Well Field

Date: 12/5/2022

Drawn By: JF

Address:  
5740 Wagonwheel Trail  
Castle Rock, CO

Legend:

2023 Parking Lot Treatments

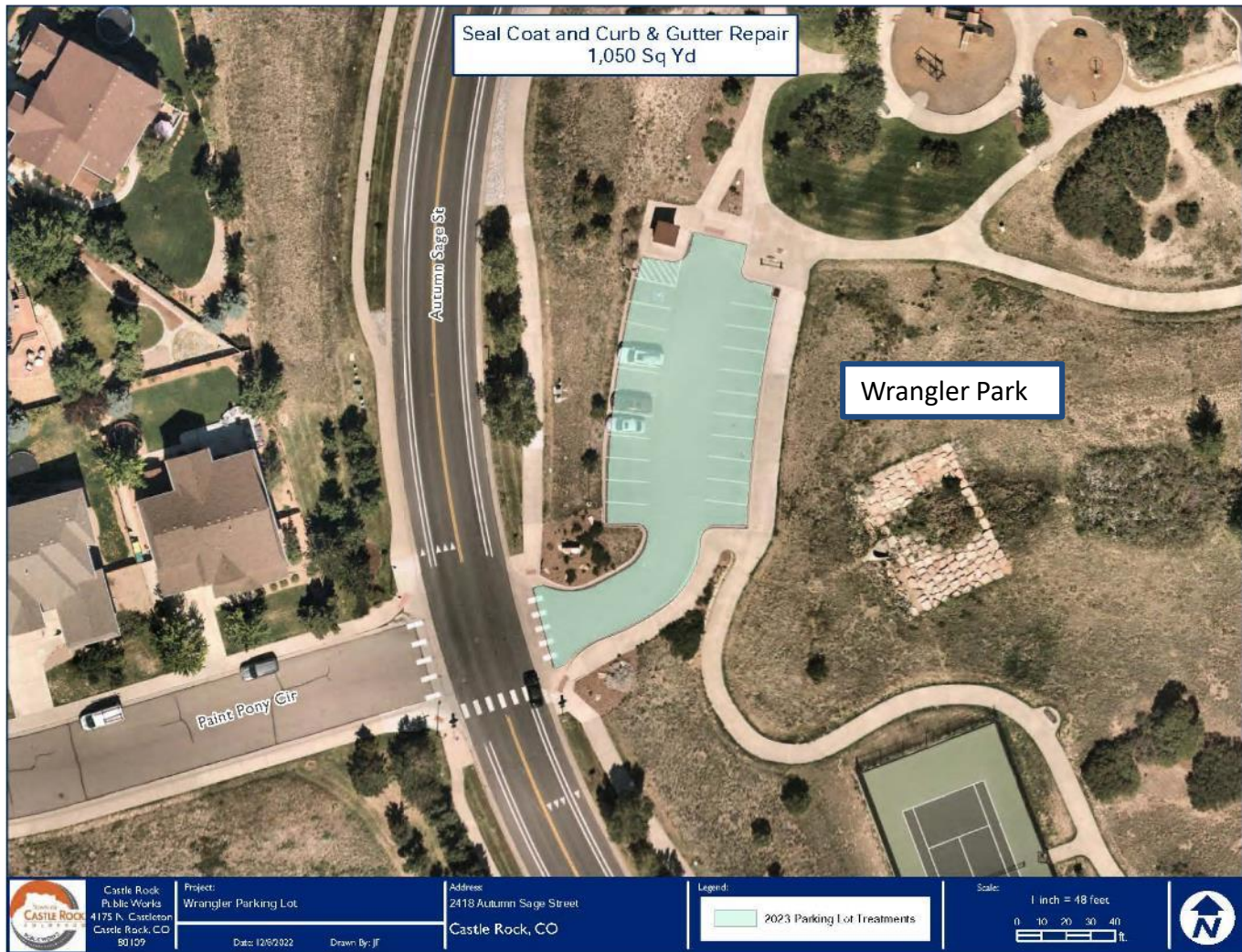
Scale:

1 inch = 34 feet

0 10 20 30 40  
ft.







# 2023 TOWN FACILITY PARKING LOT IMPROVEMENT COST SUMMARY

FUNDING SOURCE; GENERAL LONG TERM PLANNING,  
AND FACILITIES PAVING PROGRAM

❖ Total Budget	\$731,066
❖ Bid Amount	(\$664,606)
❖ Contingency	<u>(\$66,460)</u>
❖ Remaining Amount	\$0.00



# PMP FUNDS REALLOCATION

MARCH 21, 2022





# **Resolution authorizing the Town Manager and Finance Director to reallocate Council approved PMP funds**

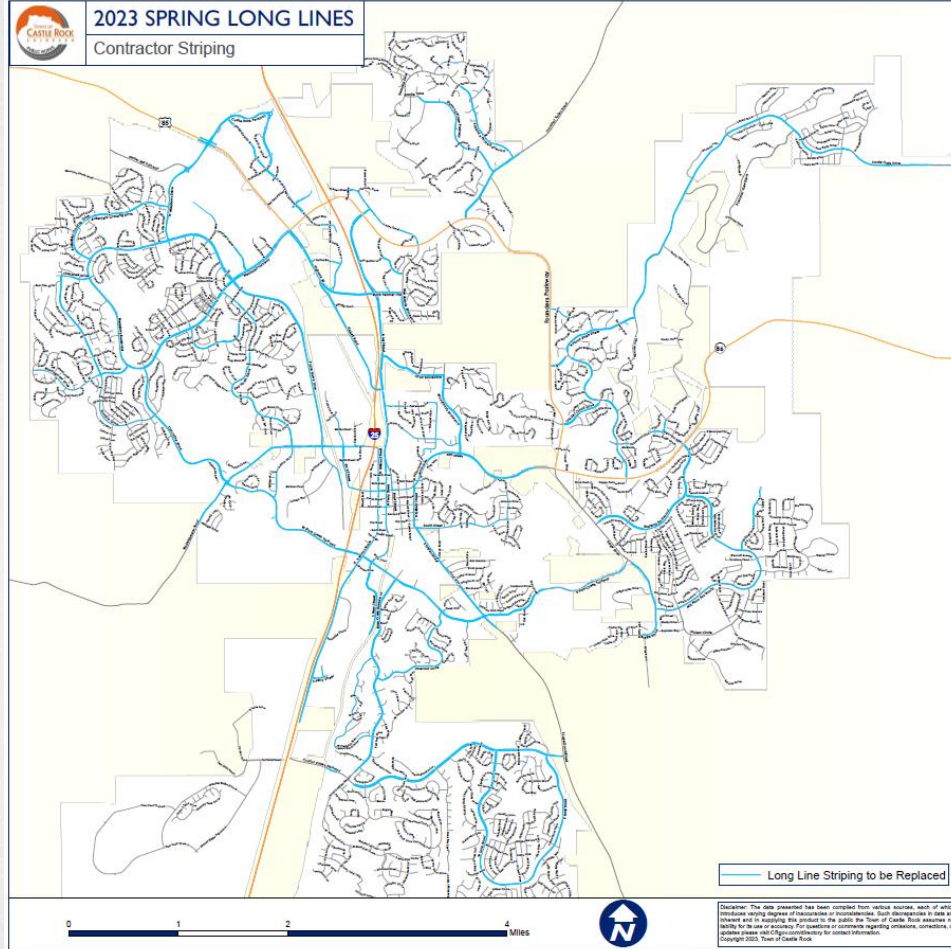
- Utilize savings from some contract areas to increase scope in others
- Savings from minimizing contractors remobilization of resources
- Minimizing disruption to the traveling public
- No increase to the total appropriated budget authorized by Town Council

# PAVEMENT MARKINGS

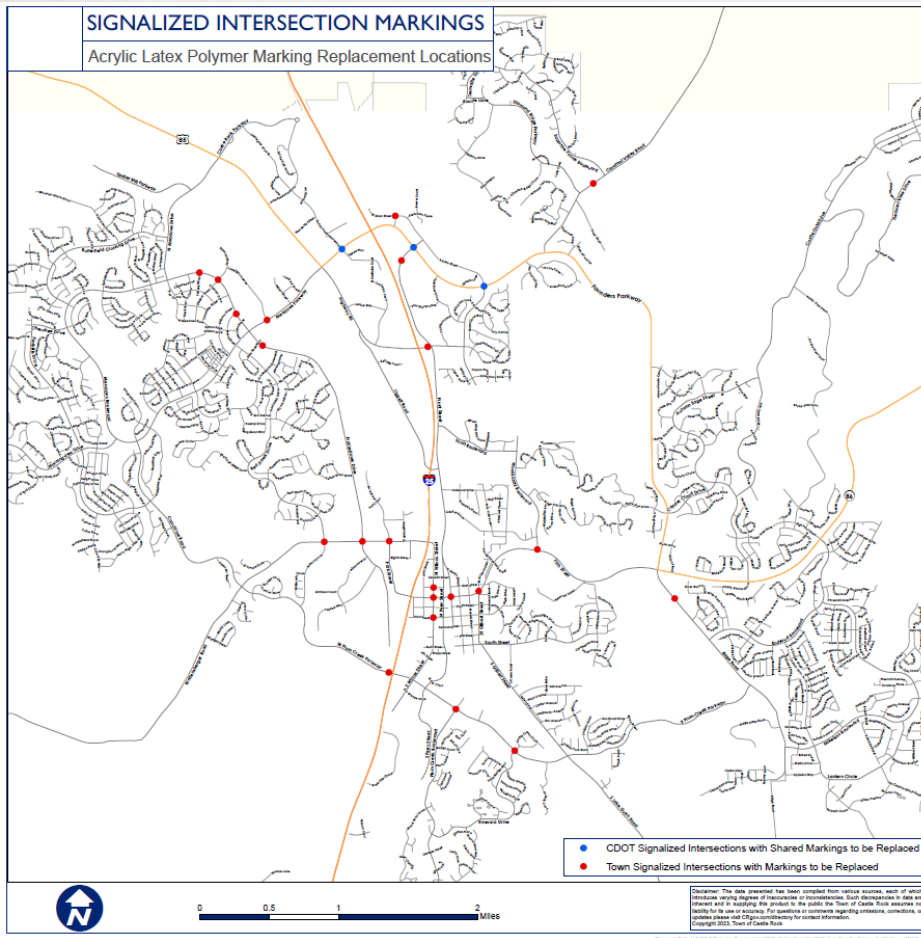
MARCH 21, 2022



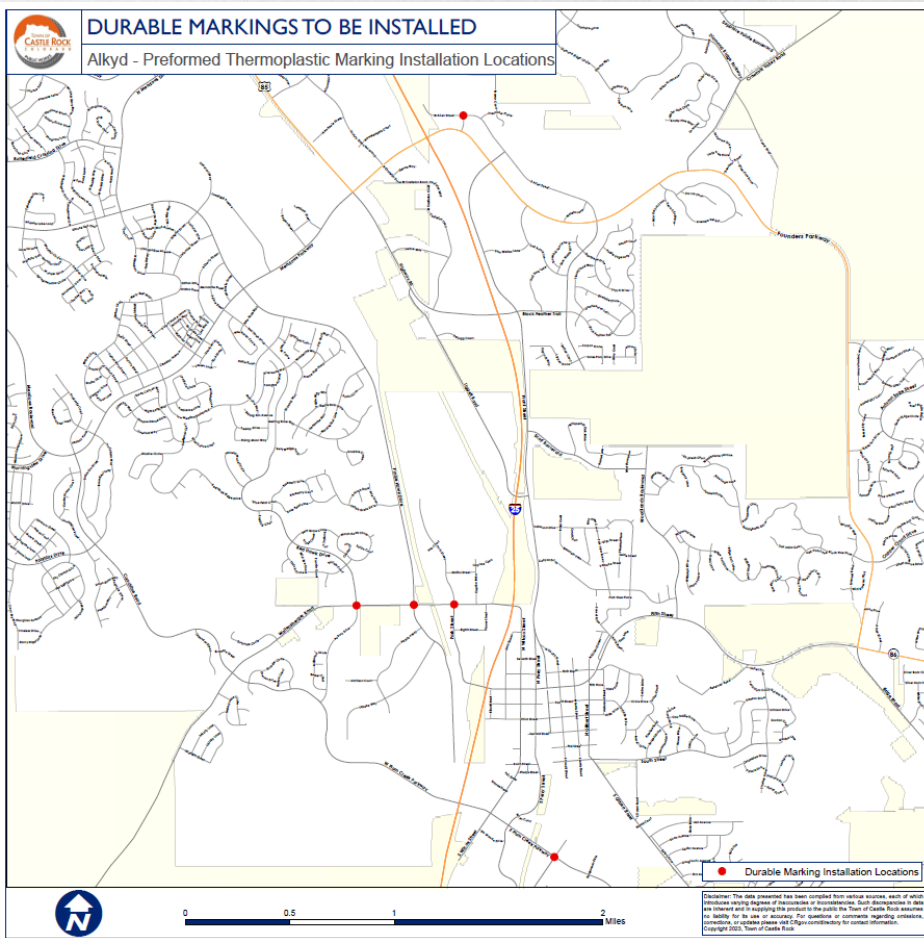




### Acrylic Latex Polymer Marking Replacement Locations



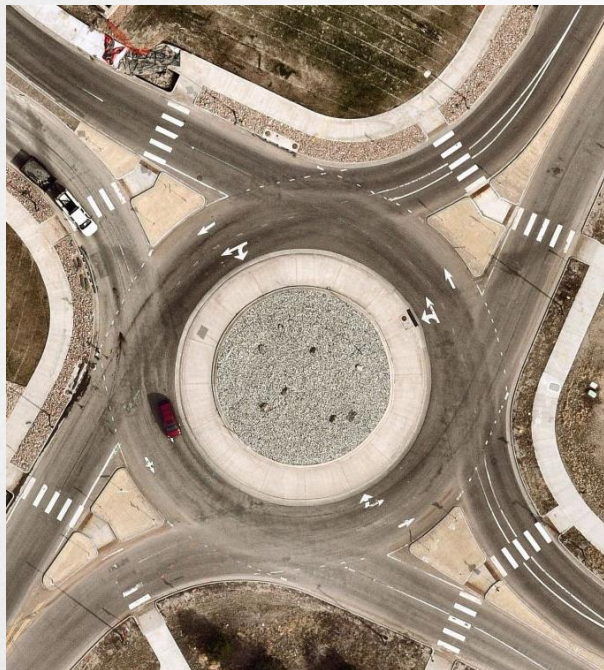
### Alkyd - Preformed Thermoplastic Marking Installation Locations



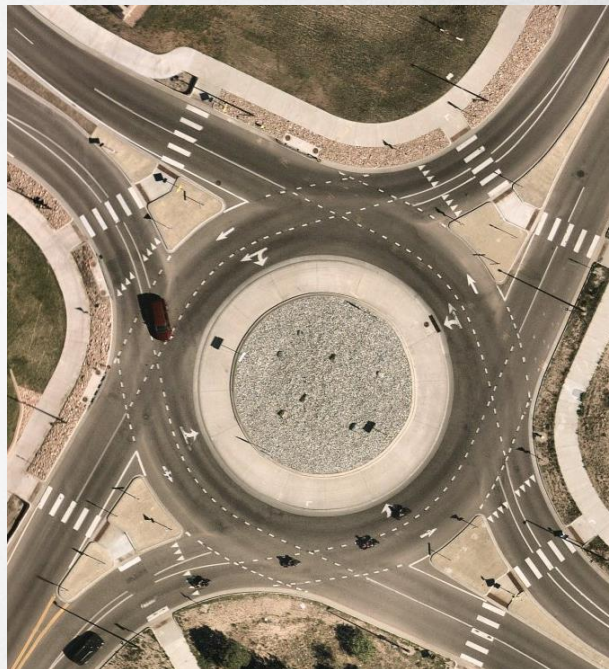


# COMPLETED DURABLE MARKING PROJECTS

## WOLFENSBERGER ROUNDABOUT



Before ground in thermo installed



After ground in thermo installed

# 2023 PAVEMENT MARKING MAINTENANCE COST SUMMARY

❖ 2023 Approved Pavement Marking Maintenance Budget	\$377,000
❖ Total Cost for Pavement Marking Maintenance	\$377,000
❖ Remaining Budget	\$0



# NIGHT TIME NOISE VARIANCE

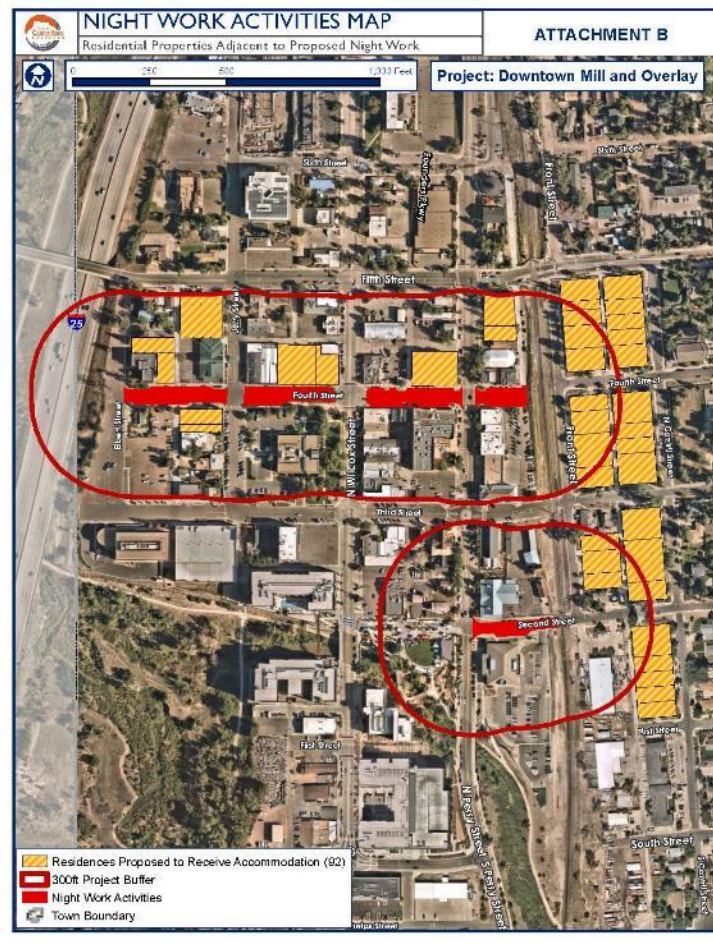
MARCH 21, 2022



# NIGHT TIME NOISE VARIANCE

- Reduce Disruptions to Traffic
- Reduce Disruptions to Businesses
- Can significantly reduce Schedule



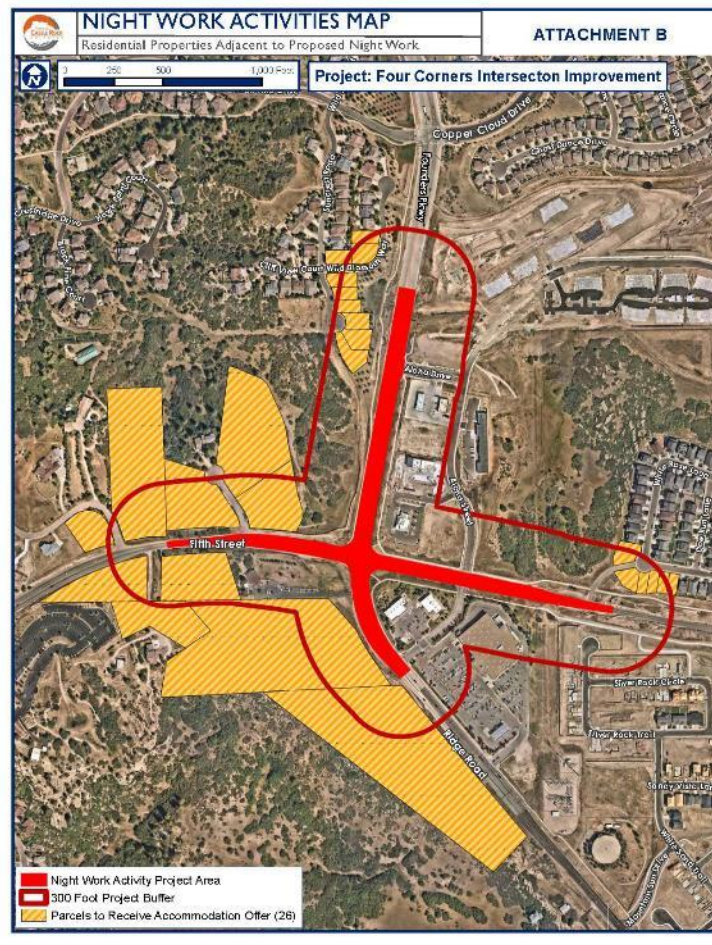


2<sup>nd</sup> Street & 4<sup>th</sup> Street

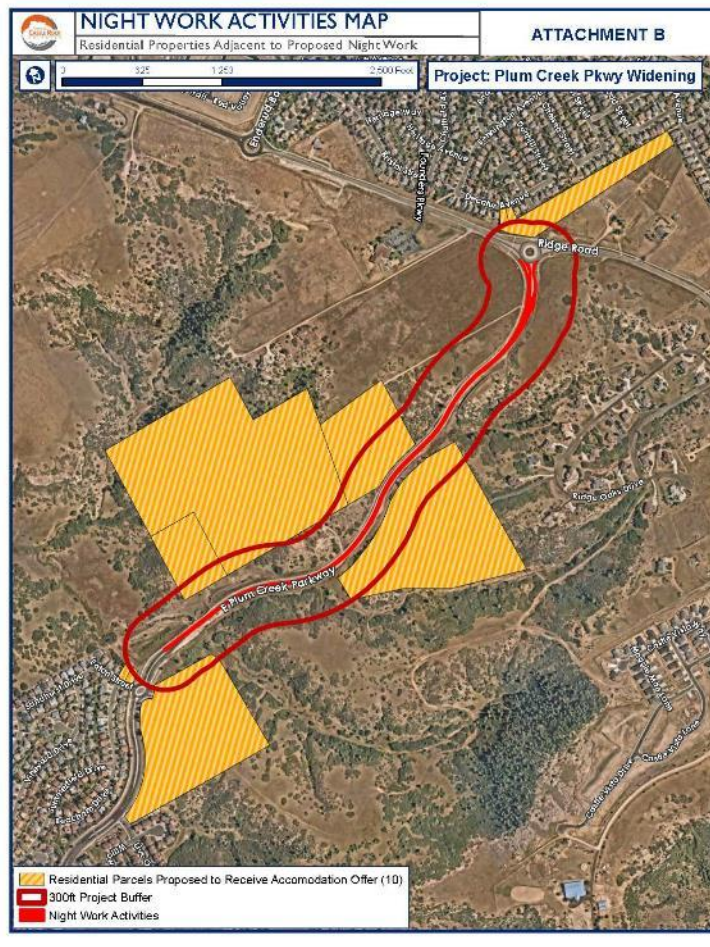


Crystal Valley Pkwy Roundabout





Four Corners Intersection



Plum Creek Pkwy Widening



# RECOMMENDATION

The Public Works Commission recommends approval of all items

# LEVEL OF SERVICE

