### Street Maintenance Division Update 02/03/2024

## **Streets Maintenance Staff**



#### (1) Street Maintenance Supervisor

(1) Lead Street Maintenance Worker

(3) Heavy Equipment Operators

(3) Street Maintenance Workers

## **Pavement Management**

In general, the City currently utilizes multiple pavement preservations methods to maintain approximately 525 miles of City owned roadway.

- Pothole patching
- Crack sealing
- Dig outs
- Thin skin overlay
- Reclamite Rejuvenation
- Cape seal



## **Pavement Management**



- The goal of pavement management is to maximize the lifespan of the City's streets.
- The City utilizes a pavement management system to forecast needs based on datadriven assessments.
- Streets are selected for various repair applications based on multiple factors. The overall pavement condition is used to determine whether the street warrants a particular repair or complete replacement.
- Forecasting work is key. It enables prioritized repairs, minimizing delays. Efficient pavement preservation relies on scheduling ahead, maximizing resources, and addressing issues before they become major problems, and therefore extending the pavement lifespan.

# **Annual Funding**

### <u>Gas Tax Fund (2370)</u>

- 1. Dig outs \$100,000 annually
- 2. Thin Skin Overlay \$700,000 annually
- 3. Pothole Patching \$300,000 annually

#### Measure N Fund (1410)

- 1. Reclamite \$1,200,000 annually
- 2. Cape Seal \$1,175,000 annually
- 3. Crack Sealing \$300,000 annually





# **Pothole Patching**

- Pothole patching is a repair that involves filling a pothole with material and compacting it to create a level surface.
- The Street Division patched an estimated 4,000 potholes using 500 tons of material.
- Citizens can either report potholes or other street issues, by:

Calling: (559) 713-4428

or Submit an online request to:

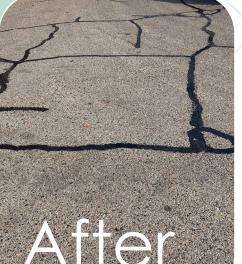
www.Visalia.city

# **Crack Sealing**

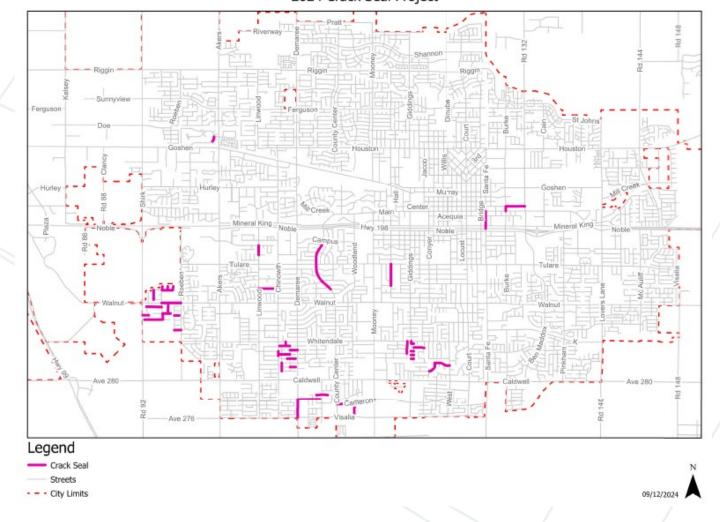
- Crack Sealing 112,414 square yards of completed roadway
- 67,500 lbs (6,428 gallons Polyflex Type 3 material)
- Polyflex Type 3 Sealant is a hotapplied, asphalt-based product used to fill cracks and joints in asphalt to prevent water from penetrating the pavement, that would otherwise cause premature pavement failure.







City of Visalia 2024 Crack Seal Project



# **Dig Outs**

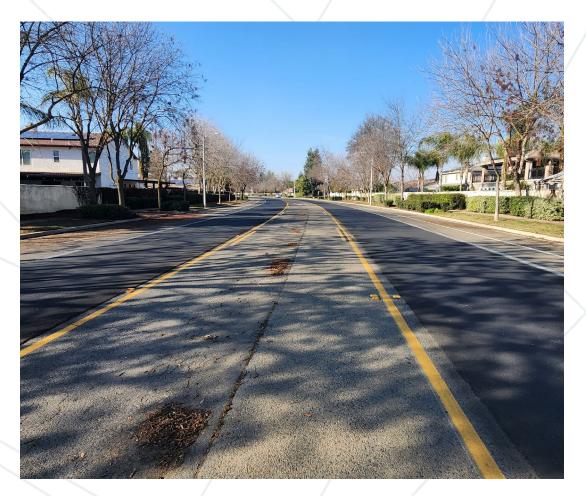
- Dig outs are used to repair highly damaged sections of pavement by completely reconstructing isolated areas of the roadway.
- This method is used when other maintenance techniques are no longer effective.



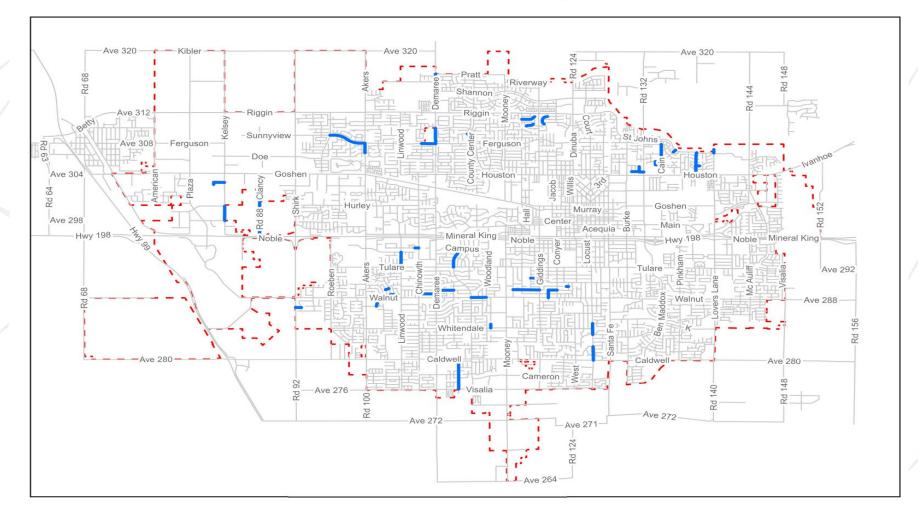


# **Thin Skin Overlay**

- In 2024, the Streets Division applied 4,062 tons of asphalt (177,248 square yards) of thin skin overlays.
- Thin skin overlays are a pavement preservation technique that involves applying a thin layer of asphalt over areas of damaged roadway where the structural section is still intact.
- This prolongs the wearing surface and extends the life of the street.
- Thin skin overlays can be capesealed later to further prolong its useful life.



City of Visalia 2023-24 Thin Skin Overlay



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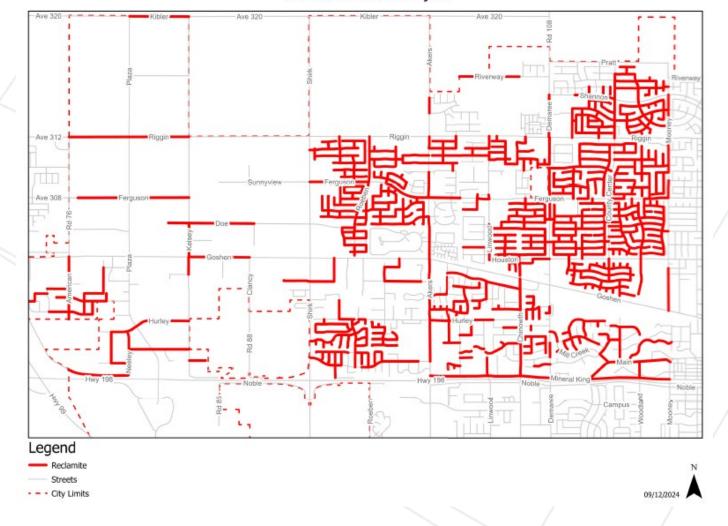
09/12/2024

# **Reclamite Rejuvenation**

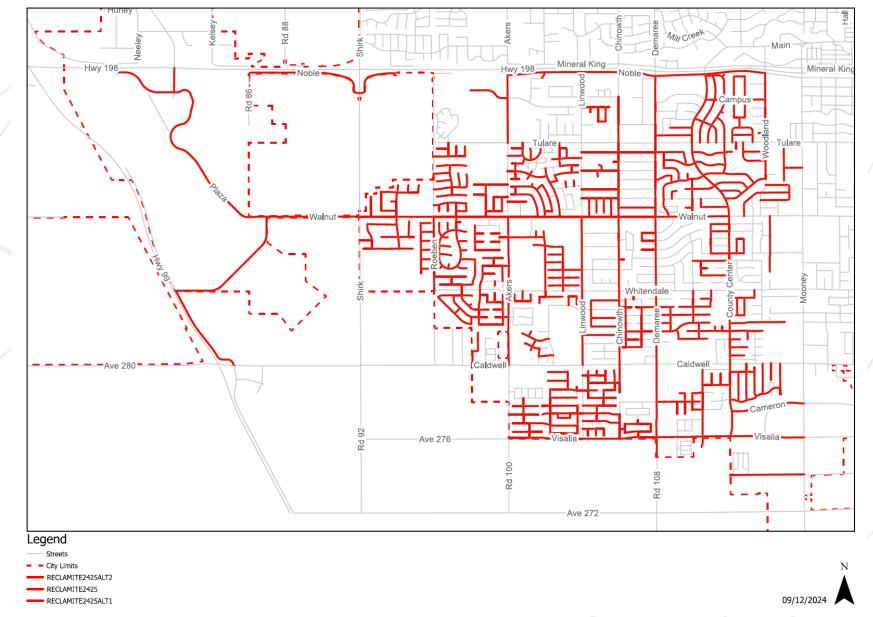
- The reclamite process restores and preserves the durability of existing asphalt by applying a rejuvenating agent used to penetrate the surface of the pavement and restore asphalt flexibility by replenishing components of the asphalt that are lost from the elements and the aging process.
- This year the City applied this preservation method to the northwest quadrant, encompassing 54 miles of streets, (1,851,827 square yards).



City of Visalia 2023-24 Reclamite Project



City of Visalia 2024-25 Reclamite Project

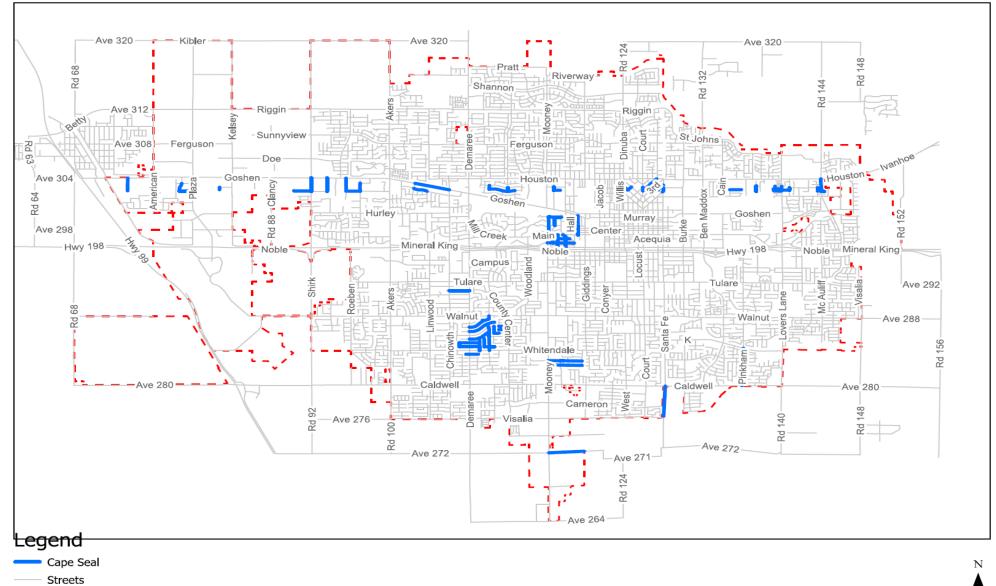


# **Cape Seal**

- Cape Seal consists of an application of a chip seal followed by a microsurfacing application onto the selected roadways. The chip seal consists of applying an asphaltrubber seal binder combined with a heated application of aggregate cover material. After the chip seal has cured, the micro-surfacing application is applied. This secondary application consists of a mixture of aggregate, emulsified asphalt, mineral filler, and other additives that create a new drivable. surface over the chip seal.
- This year the City completed 10 miles of roadway (232,398 square yards).

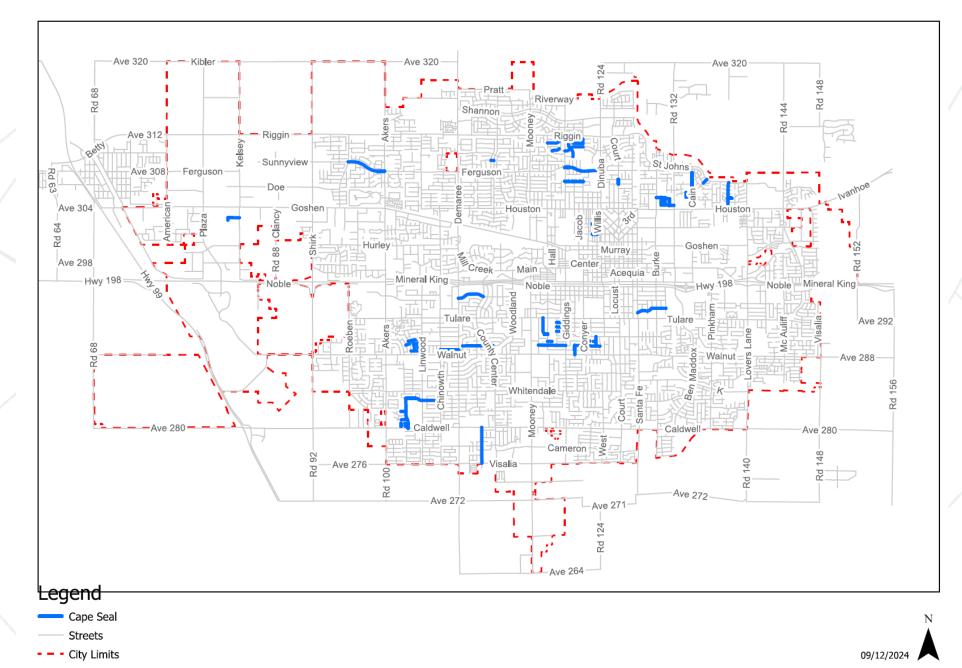


#### City of Visalia 2023-24 Cape Seal Project



- - - City Limits

#### City of Visalia 2024-25 Cape Seal Project



# **Emergency Call Outs**

 Streets Division responds to a variety of emergency call outs throughout each week for down trees, traffic accidents, traffic control, and road closers.



