

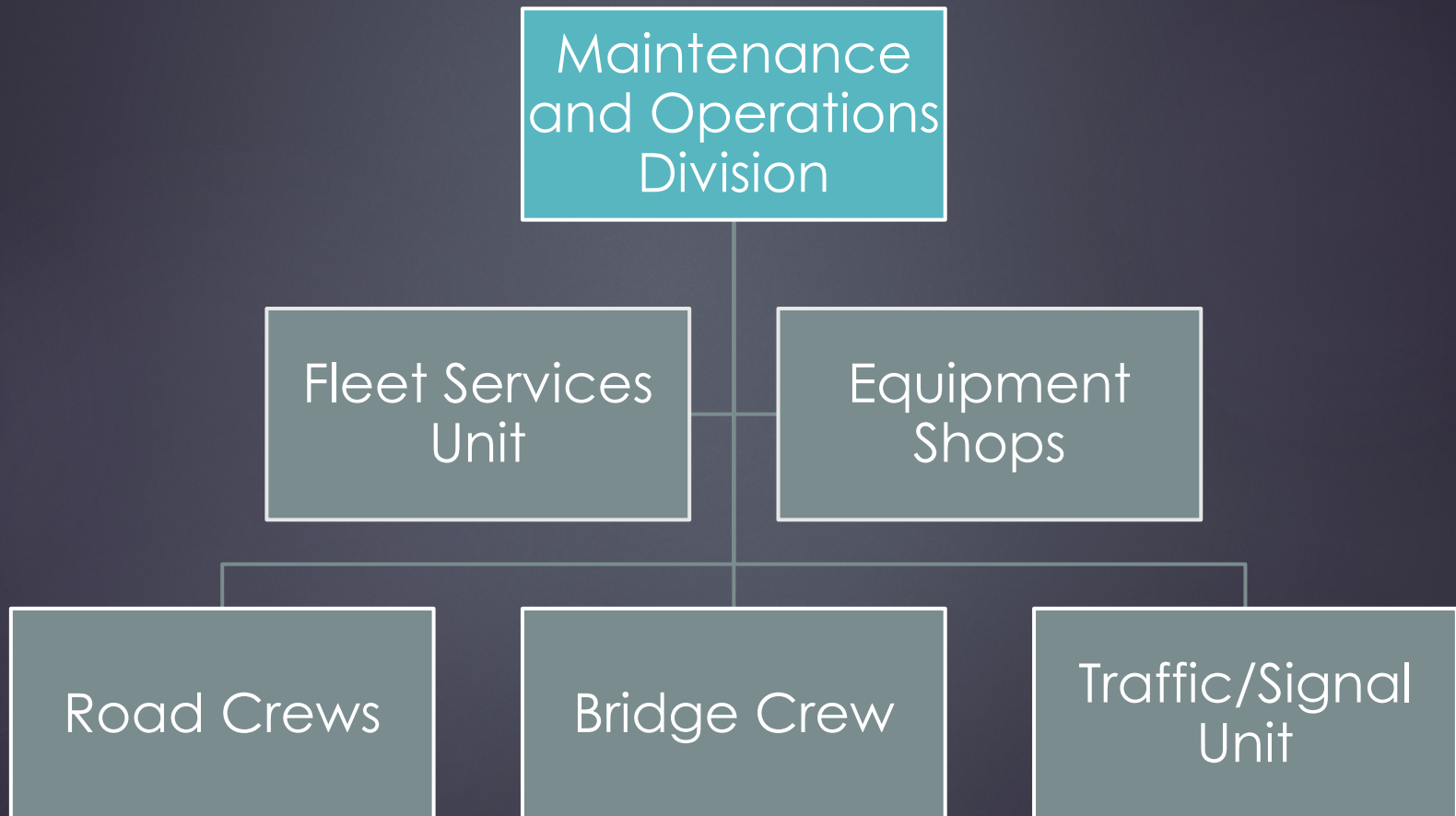
El Dorado County

Department of Transportation

Maintenance and Operations Update



Maintenance and Operations Division Units



Services Performed by DOT Maintenance Staff

Maintenance and Operations Division has four main units contributing to road maintenance activities: road crews, bridge crew, traffic/signal crew, and equipment shop.

- Bridge Crew is responsible for bridge maintenance, curb, gutter and sidewalk repairs, graffiti removal, and guardrail repairs.
- Traffic/Signal Crew is responsible for sign maintenance, traffic signal and lighting maintenance and striping and marker maintenance.
- Equipment Shops are responsible for heavy equipment maintenance and repairs.
- Road Crews are responsible for dead animal removal, drainage culverts, erosion control, grading, roadside ditching, ROW brushing and herbicide application, road maintenance, road repairs and street sweeping.



Road Repair Activities

- Road Maintenance Activities include:

- Crack Sealing

- Cracks in asphalt roadways provide a place for moisture to reach the pavement base and will ultimately lead to more extensive deterioration.

- Overlays

- A new layer of asphalt applied over the existing layer of base asphalt. Overlays can be utilized to reintroduce crown in roadways. (contracted out)

- Base Repair (Grind & Pave)

- Removal of failed sections where the pavement is fractured and broken. This allows water to weaken the subgrade under the roadway. (contracted out and force account)
 - During Fiscal year 24/25, DOT spent \$767,000 on asphalt and cold patch materials for force account projects.



Surface Treatment Applications

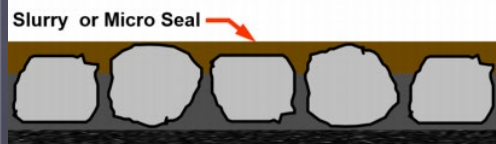
Micro-milling

Removes the high points of existing pavement to restore proper grade and remove surface irregularities, improving rideability.



Micro surface

A thin application containing polymer modified emulsion and graded aggregate. Can be applied thicker for slight rutting.



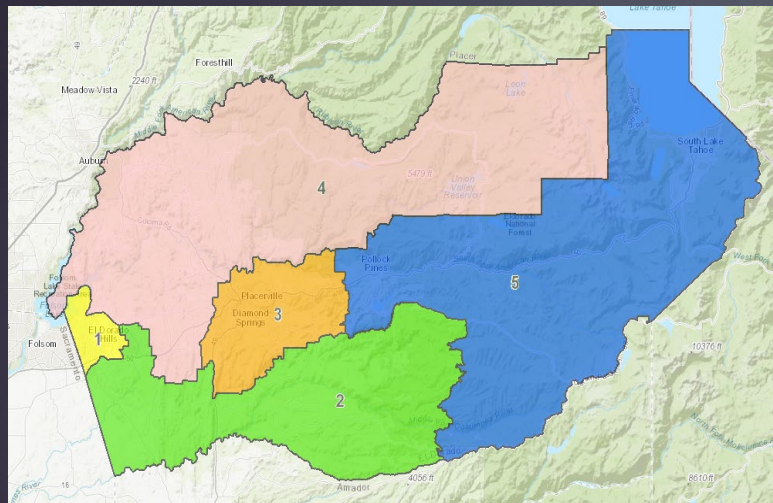
Rubberized Chip Cape Seal

An integrated process, with one treatment followed by one or two more processes. The multi-layer process gives strength to the rubberized chip seal with the added benefit of a quieter, smoother ride.



Project Selection Process

- ▶ There are many factors DOT takes into consideration when determining road selections:
 - ▶ Funding Source (SB1, Tribe, TOT/GF, Measure S)



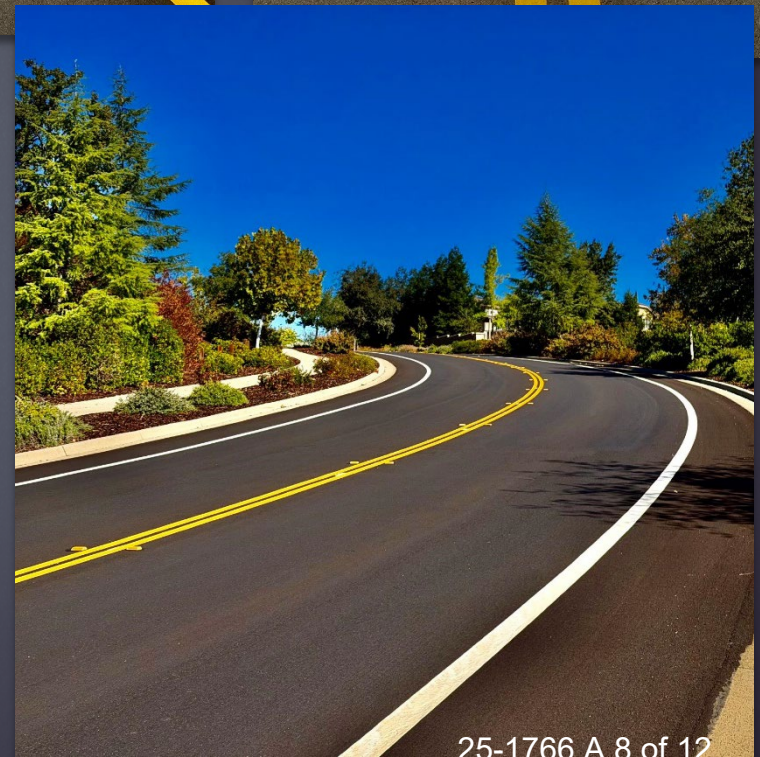
- ▶ Districts within the County
 - ▶ PCI (Pavement Condition Index)
 - ▶ ADT (Average Daily Traffic)
 - ▶ Estimated Life/Return Time: Factors include traffic loading, initial design, water drainage, pavement condition, and environmental factors
 - ▶ Economies of scale
- ▶ Ideally, road selections consist of 80% of fair roads and 20% of bad roads. Maintaining fair roads while addressing a smaller portion of bad roads allows a greater number of roads to be completed with limited funding.
 - ▶ The project selection process has allowed DOT to increase the PCI from 64 in 2018 to 69 in 2024.

Recently Completed Projects

- ▶ Governors Subdivision Phase 2
- ▶ E-16 Phase 2 (Pleasant Valley Road to four corners)
- ▶ Larsen and Barkley Phase 1
- ▶ Salmon Falls Phase 2 (Gallagher Road to Green Valley Road)
- ▶ Christmas Valley Area Phase 1 (residential roads off South Upper Truckee)
- ▶ Cable Road (dirt section)



Completed Projects Continued



Future Road Maintenance Projects



► FY 25/26

- Larsen and Barkley Phase 2, and North Canyon Phase 1
- Sly Park Road Phase 2 (Mormon Emigrant to Pleasant Valley Road), Leisure Lane, Park Creek and Mormon Emigrant Trail
- Highland Village and Lakeridge Oaks
- Green Valley Road (Cameron Park Drive to Lotus Road)

► FY 26/27

- DOT staff will evaluate the most recent PCI reports in December 2025/January 2026
- SB1 Project Resolution for FY 26/27 will be brought before the Board in March/April 2026 for approval.

Roadside Vegetation Removal

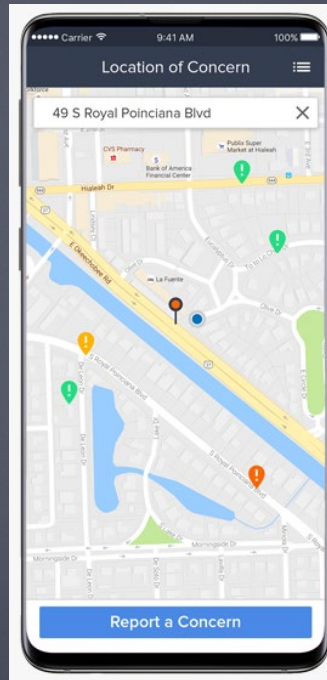


- ▶ FY 24/25 approximately \$889,000 was spent on roadside brush removal that was contracted out totaling approximately 40 centerline miles.
- ▶ The entirety of the work was funded by local discretionary funds (Tribe).
- ▶ Recently, the Board has approved \$650,000 of contracted brush removal work for FY 25/26.
- ▶ DOT also utilizes Growlersberg, and Ponderosa Camp crews and Tribal Fire Department.
- ▶ Brush removal is also completed by force account for SB1 projects.

Complaint Tracking System

Efficient Reporting

- ▶ Link on the Department of Transportation website.
- ▶ Reporting from mobile devices via an app.
- ▶ Cloud-based reporting system.
- ▶ Complaint issue will automatically route to the supervisor to address.
- ▶ Automatic response to the reporting party on acceptance or status.
- ▶ Only able to report on County maintained roads.



Implementation

- ▶ Purchased iPads.
- ▶ iPads are configured for the reporting system.
- ▶ Reporting paths have been submitted to vendor.
- ▶ Automatic response templates have been generated.
- ▶ DOT staff is currently testing the system prior to implementation.
- ▶ Once implemented, will mirror the two systems for a month to ensure there are not any missed areas of concern.

