

## Sign Shop—Innovation & Cost Savings

By Charles Carpenter

Morgan Road’s Sign Shop and central supplies have moved. We are enjoying our long anticipated new space with more elbow room and room to grow. Our new area is more secure with security cameras and a modern pass card system. Also, we have a loading area with roll up doors, which has increased the flow of signs for the sign maintenance crews to restock their trucks.

There have been several innovative changes in the onsite manufacture of road signs.

- ◆ The purchase of a Hewlett Packard Latex 365 Color printer is more user-friendly with water based inks, which simplifies ventilation and storage. *(Photo #1)*
- ◆ New software, Flexi Pro-Cut and Print from HP with the Manual on Uniform Traffic Control Devices (MUTCD) v10 package, can expedite cutting and printing of latex material by as much as 50 percent.
- ◆ Other items are the CWT 1630 Premium backlit applicators table, and the purchase of a GraphTec 8600 64” cutter. These items go together and speed up manufacturing time. *(Photos #2 and #3)*
- ◆ The sign shop has a refurbish program that allows us to recycle and reuse our old worn out signs that have to be changed out because of retro reflectivity loss and legibility due to fading. As long as the integrity of the metal is good, the old signs are stripped and re-used with new vinyl providing a cost savings.



As you can see after the move, the sign shop and central supplies are alive and well. We are enjoying our new building and new equipment. The new building and the addition of the new equipment are helping us to fulfill the department’s Mission and Vision Statements.

**Mission:** Manage and improve infrastructure through safe and efficient use of resources and assets for the benefit of our citizens.

**Vision:** Strive to be the leading Public Works Department through innovative stewardship of infrastructure and environment.

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**"Health & Safety Byte"  
Safety is no accident!**



**Word of the Quarter  
Mindfulness**

**Ethics Quotes**  
Price Pritchett  
“The ethics of excellence are grounded in action—what you actually do, rather than what you say you believe. Talk, as the saying goes, is cheap.”

# Chip Seal - What Is It?

By Randy Avants

The resurfacing technique of the chip sealing process is nothing new. It is simply one of several different ways of resurfacing a roadway to preserve the life expectancy. Stanislaus County Public Works has been using this process for many years, and we will be doing so again this year.

This process is applied by spraying a specific type of oil on the road followed by a piece of equipment called the "chip spreader," which spreads a specific size rock over the oil. Prior to the oil being applied by a "boot truck," a front flagman leads the way followed by two power sweepers who run ahead to ensure the road is clean. This is followed by the oil truck (photo on the right), chip spreader (photo on bottom right), two rubber tire rollers (photo on bottom left), a dump truck with extra rock to cover any bare spots and then the rear flagger. This process is applied on the go as our County trucks stage along the way in intervals that continue to feed the chip spreader. The entire process looks similar to a long train moving down the road.

The primary goal is to seal any cracks in the road to prevent moisture from seeping under the roadway. The oil is the sealer and the rock that is applied over the oil is just a wear surface to protect the oil. When the roadway is prepped during the summer prior to the actual chipping process, asphalt is applied to make any necessary repairs to areas before the chip seal program begins. This step replaces broken roadway edges and quite often provides a better ride and ensures longevity.

The goal of our operations team is to resurface every County maintained road three times within the next 25 years. When the road is prepared and sealed properly we expect to get seven to nine years of life, for the most part maintenance free, until we return again.

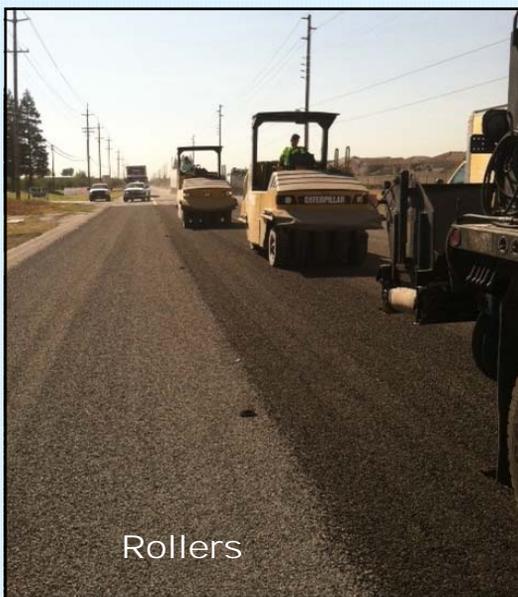
Some roads will receive asphalt overlays and some will receive slurry seals, but the chip seal program provides the opportunity to resurface more road miles that any other process. Because it provides the best "bang for the buck," we will be chip sealing 97 miles of County roads this summer beginning August 6<sup>th</sup>.



Oil spreader truck



Chip spreader



Rollers

\* \* \*

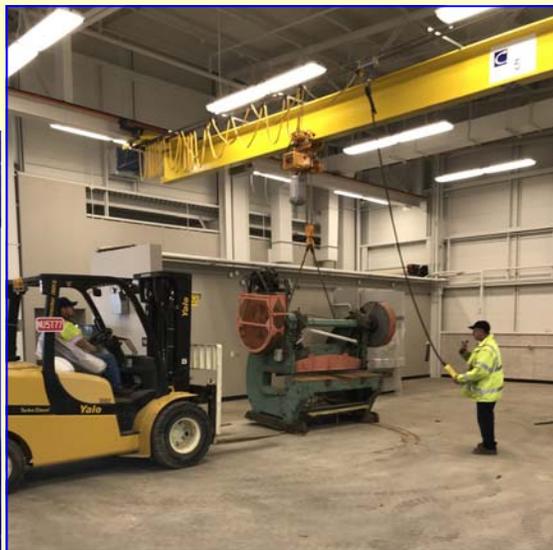
# Meet the New Morgan Equipment Maintenance Shop Facility

Submitted by Tate Hoffman

The move into the new Morgan Road Equipment Maintenance Shop was in two phases: Shop offices move in date was October 9, 2017, and the maintenance shop move in date was March 5, 2018. Below are some of the highlights of the new facility.

- ◆ The new facility is 18,037 square feet of working area. (This does not include the administration offices).
- ◆ The new shop is more than double the size in preventative maintenance and repair areas.
- ◆ It is a pre-manufactured metal building with concrete masonry unit (CMU) walls and shed roof.
- ◆ It meets current compressed natural gas (CNG) repair facility standards.
- ◆ There are five double length drive through heavy maintenance bays.
- ◆ Each drive through bay is 60' long to accommodate all combination vehicles that Morgan Shop maintains.
- ◆ All bays have electrically operated rollup doors.
- ◆ The shop has seven ceiling mounted drop reels where all critical lubes and oils can be accessed.
- ◆ The shop is outfitted with exhaust removing equipment to allow vehicle diagnostics with engines running in closed areas.
- ◆ The shop is outfitted with dual five ton capacity bridge cranes that run the length of the shop.
- ◆ The new facility is outfitted with two sets of four wheel lifts that are wireless and able to move throughout the facility depending on where they are needed.
- ◆ One in-ground lift platform style for quick lifting of equipment for preventative maintenance and inspections.
- ◆ One in-ground scissor style lift used for tire, suspension, brakes, and undercarriage repairs.
- ◆ The new maintenance facility has multiple administration offices attached to the outside of the repair shop. This area will be home to the shop administration team and the Roads and Bridges management team.
- ◆ The new facility includes a machining room and storage areas for parts and tires.

The added space in the new facility has given our technicians the flexibility to transition from job to job when parts are needed or higher priority assignments come along without having to remove unfinished equipment from the shop. This new building will allow the Morgan maintenance fleet to grow either internally or with external customers, depending on the need. A facility of this size generates the possibility of employing more technicians and running multiple shifts during the day if necessary for future business needs. Additionally, the new maintenance facility building was designed to be potentially expanded in the future.



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Stanislaus Regional Transit

**StaRT**

Transit Division's website is:

[www.srt.org](http://www.srt.org)

For route info call **StaRT** at  
**1-800-262-1516**

## Public Works Staff Updates

### New Employees:

- ♦ **Marcie Ryan** (Administrative Secretary) joined our Design Engineering team on 3/31/18.
- ♦ **Jonathan Hamilton and Ignacio Lopez** (Road Maintenance Worker I) joined our Roads & Bridges team on 4/16/18.
- ♦ **David Granados** (Road Maintenance Worker I) joined our Roads & Bridges team on 5/14/18.
- ♦ **Valeria Martinez** (Part-time Account Clerk II) joined our Finance team on 5/29/18.

*Welcome!*

### Promotion:

- ♦ **Bill Martins** was promoted to Road Supervisor in our Roads & Bridges team on 4/30/18.

*Congratulations!*

### New Babies:

- ♦ **Nate Tumminello** (Associate Civil Engineer in Design Engineering) has a new baby son named Nolan born on 4/23/18.
- ♦ **Andrew Malizia** (Associate Civil Engineer in Traffic Engineering) has a new baby daughter named Josie born on 6/27/18.

*Best wishes!*

## National Public Works Week: May 20—26, 2018

*"The Power of Public Works"* theme for the 2018 National Public Works Week poster gives voice to the impact the many facets of public works have on modern civilization. From building and maintaining roads and bridges, or planning for and implementing mass transit, to removing debris from roadways, or devising emergency management strategies to meet natural or man-made disasters, public works services determine a society's quality of life. This year's poster honors the vital contribution public works professionals make every day to communities all across North America, and it invites the public to celebrate their quiet dedication and indispensable influence on our way of life.

<https://www.apwa.net/>

To celebrate National Public Works Week, we had our annual Public Works Employee Appreciation Luncheon at Morgan Road with a barbecue complete with "puka" dogs (pork, pineapple, and barbecue sauce), coleslaw, nachos, and cake. See photos below.

