



“In the Works”

Striving to be the Leading Public Works
Department Through Innovative Stewardship of
Infrastructure and Environment

**Stanislaus County
Public Works**

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Into the Future for Morgan Shop Submitted by Tate Hoffman

Morgan Shop is in the process of updating its internal vehicle data system. This project is in conjunction with Stanislaus County Fleet Services. Fleet Services and Morgan Shop are combining funds and resources to join a shared data system on all County owned and maintained vehicles. The name of the data system is Fleet Focus, which Morgan Shop currently uses in a GroupWise (GWI) format. The upgrade will take both shops to a web based format which is more user friendly.

Fleet vehicles exist to perform a job for their organizations. It's up to fleet departments to keep the entire fleet on the road performing those duties in the most cost effective manner possible. Fleet Focus fleet management software provides the technology and tools to help fleet departments thrive. It manages every aspect of a fleet vehicle from cradle to grave, and every day in between. This includes comprehensive preventive maintenance (PM) schedules, work orders and labor tracking, as well as parts and inventory management.

What does this mean to our internal and external customers? It provides the following:

- Shared vehicle history
- Shared parts pricing
- Billing
- Controls and tracks PM (preventive maintenance) history
- More accurate repair history to help technicians diagnose vehicle complaints
- Convenience to take your vehicle to the closes repair facility and knowing your vehicle will get exactly what it needs for best maintenance practices
- Shared inventory (finding the right parts on hand to lessen the customers wait time)
- Purchasing records
- Correct fluid top offs and replacement
- Global Positioning System (GPS) capable interfacing
- Rental and reservation capabilities
- Tablet compatible
- Wi-Fi compatible
- Mobile-App (for technician use)
- Scheduled work orders to technician (to minimize time lost during manual task assignments)
- Extend useful life of vehicle through better maintenance and documentation
- Fuel management software capabilities

We at Morgan Shop are looking forward to the future of a new shop with new electronic abilities, so that we can serve our customers faster and with better accuracy.

SR-99/SR-219 Kiernan Avenue Interchange—Open to the Public

The three year \$42 million construction project now open to the public was marked by a ribbon cutting celebration on June 20, 2016. “This project is not only an example of how desperately we need funding to improve our local roads, but it is a shining example of how we can successfully delivery these types of projects when funding is available,” stated Stanislaus County District 3 Supervisor Terry Withrow.

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"Health & Safety Byte"
When you pass road workers, drive like they're your family because they're someone's.
Safety is no accident!

Word of the Quarter
Trust

Ethics Quotes
Albert Schweitzer
"Ethics is nothing else than reverence for life."



StaRT's NEW TRANSIT PLANNING INNOVATIVE TOOL

Submitted by Eunice Lovi

Each year, the Public Works Transit division embarks on service planning activities to improve existing transit services or implement new service that ensures passengers are able to use the County's public transit system, Stanislaus Regional Transit (StaRT) for their transportation or mobility needs. These planning activities entail countless hours spent analyzing ridership data to determine how routes should be modified to achieve the ultimate goal of providing convenient and efficient service that also increases ridership. Like most transit systems, StaRT uses factors such as: riding the bus to verify ridership at bus stops, talking to bus drivers on operational issues, analyzing data to decide on the need to add or discontinue bus stops, conducting surveys to receive input from the public, sketching out route maps on pieces of paper, and using spreadsheets to "perfect numbers" for costing out the operational costs of providing transit services.

Over the years, there have been innovative ideas to help transit systems design and improve routes without breaking the bank. Some of these concepts include using technology to create plans that shorten a route or develop schedules that improve frequency of trips. However, there has always been a missing link that prevents transit systems from developing strategies to enable transit planners to compare and contrast the cost of service options at the same time. In 2015, a new transit planning platform was introduced that allows transit planners to plan and design routes simultaneously and in turn, help understand the effect of potential service changes on communities instantaneously.

In early 2016, StaRT received approval from County's General Services Agency to procure this new transit planning software for transit planning purposes. The new software introduced by Remix makes the manual process of transit planning automatic while visualizing changes as they materialize. The software has the capability of using census data to show demographic statistics such as the percent of seniors, disabled persons, students, low income persons, jobs, persons with limited English, households without vehicles, and minorities that could be served or displaced by the changes made to bus routes. Additionally, the software enables staff to sketch out potential new routes and immediately understand the impact on riders and operating budget. More importantly, it has the ability to estimate the number of buses needed and project cost for planned services.

Imagine planning a new route and having the ability to see your plans come alive. For service changes planned for fiscal year 2016-2017, staff used Remix planning platform to:

- Plan a new fixed route and commuter express route
- Redesign an existing fixed route (As a result of comments received from residents expressing the need to travel to the City of Ceres for shopping related trips),
- Design a route that would connect riders to the Wal-Mart store in the City of Ceres. Compare service scenarios

including the length and time to travel from Waterford to the Modesto Transit Center.

- Determine the best possible option to redesign Route 60 to serve the Crossroad Shopping Center in the City of Riverbank. After evaluating preliminary options, staff decided on the most viable and practical options for further analysis.

Using the data from Remix, allowed staff to realign some segments of Route 60 traveling in the City of Riverbank to serve the Crossroad Shopping Center. Staff was also able to minimize the time involved with completing the planning process as well as comparing corridors on which the bus could travel, how long it would take, and how many miles would be added to the travel time. This also helped to quickly reduce the number of potential options from eight to four upon further review.

For purposes of illustrating how Remix works, the four figures show how StaRT is using Remix to assist with transit planning efforts and how it has revolutionized the transit industry.

As shown in options one and two, realigning Route 60 using different streets offers information on potential riders that could be served. The major difference between all options is the proposed routing to Crossroad Shopping Center.

Option One (Rt 60.1) shows the bus traveling along McHenry Road to Claribel Road and Oakdale Road to the Crossroad Shopping Center, then to Patterson Road and continues to the City of Oakdale.

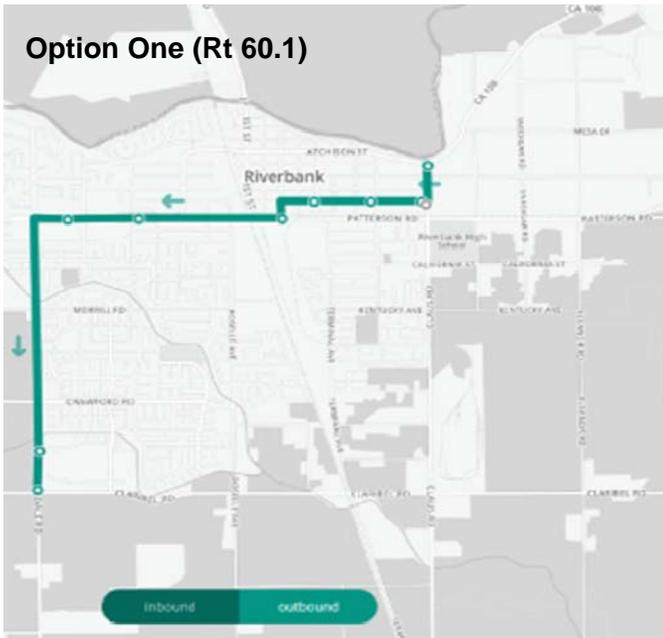
Option Two (Rt 60.2) displays the bus traveling from McHenry Road to Claribel Road and Oakdale Road to Crossroad Shopping Center, which continues on Patterson Road, then to Callander Avenue, Atchinson Road, Highway 108, and then travels to the City of Oakdale.

Option Three (Rt 60.3) highlights the bus traveling along Claribel Road to Oakdale Road to Crossroad Shopping Center, then continues to Patterson Road, 3rd Street, Atchinson Road, Highway 108 and to the City of Oakdale.

Option Four (Rt 60.4) would continue along the current routing and would not offer service to Crossroad Shopping Center.

Remix enables staff to see passengers that may be affected by proposed changes and ensures service equity by overlaying demographic data. It is faster and allows us to quickly evaluate different alternatives, as well as see results immediately compared to driving around all day trying to figure out how to tweak routes. Utilizing Remix minimized the impacts to transit riders that use StaRT for their transportation and mobility needs.

Option One (Rt 60.1)



Option Three (Rt 60.3)



Option Two (Rt 60.2)



Option Four (Rt 60.4)



Demographic data review showed the following:

	Seniors	Persons with Disabilities	Persons with Limited English	Youth	Minorities	Low Income Persons	Persons with No Vehicles
Option 1 (Rt 60.1)	11.2%	11.6%	10.5%	28.9%	59.5%	19.3%	4.6%
Option 2 (Rt 60.2)	11.4%	11.7%	9.9%	28.3%	57.3%	18.5%	4.8%
Option 3 (Rt 60.3)	11.2%	11.7%	10.1%	28.7%	58.6%	18.8%	4.7%
Option 4 (Rt 60.4)	12.6%	11.9%	12.5%	26.5%	64.3%	26.5%	4.5%

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Stanislaus Regional Transit

StaRT

Transit Division's website is:
www.srt.org
For route info call **StaRT** at
1-800-262-1516

Stanislaus County Public Works
Annual Report 2015

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Public Works' 2015 Annual Report is available online at the link below.

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<http://www.stancounty.com/publicworks/pdf/2015-annual-report.pdf>

 Follow us on Twitter @dpwmachado

CLSA Website of the Year

The California Land Surveyor's Association held their 50th annual conference in Rohnert Park with nearly 400 attendees. Stanislaus, San Joaquin, and Merced Counties are part of the Central Valley Chapter, which was awarded Chapter Website of the Year Award. Rich Brown, Engineering Technician in Development Services is the editor. *Congratulations!*



In Memoriam



Russell "Scotty" Atchinson

10/30/57—6/23/16

Scotty was tragically killed while working for the citizens of Stanislaus County. He was a Senior Engineering/Surveying Technician in our Public Works County Surveyor's Office. His cheery personality, infectious laugh, and New Zealand accent are sorely missed. He was a caring and compassionate co-worker whose death has deeply impacted all who knew him.

"The loss of a friend is like that of a limb; time may heal the anguish of the wound, but the loss cannot be repaired."

Robert Southey

**Geographic Information System (GIS)
Relocated to Strategic Business Technology**



The Geographic Information System (GIS) division has been transferred to the Strategic Business Technology (SBT) department effective July 8, 2016. Peou Khiek and Aron Harris have relocated to SBT's office at 801 11th Street, Modesto. You may contact them by calling SBT's Help Desk at 209-525-4357.

Roads & Bridges: Condition & Funding Review

Read this report prepared by Matt Machado, Public Works Director and County Surveyor, outlining the current and proposed state of Stanislaus County's roads and bridges. You can find it on our Public Works home page (link below).

<http://www.stancounty.com/publicworks/>

Public Works Staff Updates

Departures:

Colt Esenwein (Deputy Director) left on 4/1/16 to work for Santa Cruz County.

Births:

Fred Arroyo (Road Maintenance Worker III, Roads / Bridges Division) has a new granddaughter named Annalisa Lopez who was born on 3/11/16.

Keimi Espinoza (Confidential Assistant IV, Administration Division) has a new granddaughter named Keri Ann who was born on 4/26/16.

Darla Moen (Administrative Assistant III, Development Services / Transit Divisions) has twin granddaughters named Addison Lane and Quinn Paisley who were born on 4/11/16.

Best Wishes!

