

“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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Concrete Pavers as an Alternative to Asphalt Concrete Submitted by Matt Machado

A community's roadway system is its largest asset and liability. With declining revenues all communities must take a hard look at their street standards to ensure that public interest is met from a use and liability perspective. Interlocking concrete pavement could be an attractive alternative to asphalt concrete. Roadway design must meet the demands of today and tomorrow at the most affordable cost possible. With more and more traffic, especially truck traffic, our roads are being used beyond their original design limitations. Roads made of soft flexible (asphalt) materials will fatigue, break and become rubble. Roads made of rigid, hard (concrete) materials will crack under load and break apart. Having a flexible surface with a durable hard material on the surface is the best of both worlds. This is not a new concept. Interlocking pavement dates back to the ancient Roman Empire. The Romans built the Appian Way in 312 B.C. Portions of this road are still in use today. (See photo below).



Figure 1. The Roman Appian Way: early interlocking pavement

Modern concrete pavers were developed in the Netherlands in the late 1940's as a replacement for clay brick streets. Currently there are approximately 3 billion square feet of concrete pavers installed annually in Europe. Concrete pavers came to North America in the 1970's. Modern interlocking concrete pavers are made of very high strength concrete (8,000 psi), this means that as a wear surface they virtually never wear out. Long life materials mean low maintenance, which also means cost savings.

The concept of a low maintenance high durability road is appealing to everyone. Stanislaus County is applying this concept at our interchange in

Westley on Interstate 5. Howard Road and McCracken Road connect at Interstate 5. This interchange area includes truck stops, hotels, food, and gas businesses, resulting in heavy traffic and an extremely deteriorated roadway. This past summer Stanislaus County hired Bay Cities Construction Company to replace the asphalt concrete roadways with interlocking concrete pavers. The project is anticipated to be completed by the holidays, with hopefully a lifetime of use and enjoyment by those who use these roadways.

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Ethics Quotes Immanuel Kant

“In law, a man is guilty when he violates the rights of others. In ethics, he is guilty if he only thinks of doing so.”

"Health & Safety Byte"

Home safe -
not just for baseball.

Safety is no accident!

Civility Principle:

“Don't Shift

Responsibility and
Blame!”

North County Corridor Submitted by Colt Esenwein

A lot has happened with the North County Corridor Project since the Drake Haglan team came on board a year ago. In September 2013, we had just finalized traffic forecasting and were working to make the Wamble Road connection (B connection) much better. The B connection now enters Highway 120 nearer to Lancaster Road than Wamble Road, similar to where the defunct C connection used to end.

The Coffee and Roselle interchanges are new additions to the project since last year. The City of Modesto has plans to realign Claus Road to follow along the west side of the Burlington Northern Santa Fe railroad. During discussions with both the City of Riverbank and the City of Modesto, it was decided that an interchange was needed at Roselle to accommodate this future realignment and provide some relief to the Claus intersection. The Coffee intersection was performing marginally, and it made sense to upgrade the intersection to an interchange to meet driver expectations and promote better traffic flow. NCC from Tully to Claus has the feel of a freeway with four single-point, urban interchanges.

On March 6, 2014, a public meeting was held in Riverbank. The major focus of this meeting was to present refinements made to the four alternative alignments including frontage and local access. There was a lot of public participation at the meeting including 39 written comments. All of the materials

presented at the meeting, including the responses to comments received are available on the Public Works website:

(<http://www.stancounty.com/publicworks/ncc-public-notice.shtml>)

The project completed the mandatory Intersection Control Evaluation and has identified the A and B termini (end points) as good candidates for roundabouts. Other locations which are feasible and could potentially become roundabouts are:

Alternative	Locations
1A	None
1B	Stearns
2A	Albers
2B	Bentley, Albers, and Smith

The geometry for NCC is on Public Work's Geographical Information Systems website and can be accessed from the Public Works web page. It has many useful tools allowing the project to be viewed by alternative, with or without aeriels, searchable by APN, Address or Intersection. This provides incredibly useful information to stakeholders and landowners which otherwise would not easily be obtained.

The NCC team visited many stakeholders and made project presentations to provide status updates to the Oakdale Planning Commission, Oakdale City Council, Riverbank City Council and Modesto City Council. The team will present the project next at the Board of Supervisors meeting on October 21, 2014.

BE DISASTER AWARE



On September 9th, the Board of Supervisors approved a Resolution proclaiming September 2014 as National Preparedness Month. The time to prepare for an emergency is BEFORE the emergency occurs.

- Make a plan for what you will do in an emergency. Develop a Family Communications Plan. For information on how to create this, go to: <http://www.ready.gov/family-communications>
- Build an emergency kit with food, water and other supplies to last at least 72 hours. For a recommended list go to: <http://www.ready.gov/build-a-kit>
- Sign up to receive Emergency Notifications to your cell phone by self-registering at <http://gis.stangis.org:8080/EmergencyRegWeb/>
- KOSO 92.9 FM is the local primary radio station for the Emergency Alert System within Stanislaus County.

Other resources are: www.stanoes.com and www.stanemergency.com

In October watch for information (via GroupWise email) on how you can prepare for an earthquake by participating in the Great California ShakeOut, October 16th (Thursday) at 10:16 a.m.

State Route 99 / 219 (Kiernan Avenue) Interchange

Update and Photos Submitted by Chris Brady

The SR 99/SR 219 (Kiernan Avenue) Interchange project was busy this summer with continued work on the off and on ramps to State Route 99. The project is now well into the first phase of bridge construction on the overpass structure. Foundation work began in June of 2014. By September, the project had abutments poured and the first bent columns formed and poured in place.

On the evenings of September 30th and October 1st, the first phase of precast concrete wide flange girders were set into place. (See photos below). Work has begun on constructing the bridge deck with a scheduled deck completion date by the end of October. Work on the roadway approaches and approach slabs will continue through the end of the year. It is anticipated that work on the second phase of the bridge will begin in early 2015.



Kudos—Recognizing our Good Customer Care

Jose Torres (Road Maintenance Worker III) was on the sweeper and noticed an elderly lady had fallen and hit her head. He rendered first aid until the ambulance arrived. (See photo on right).



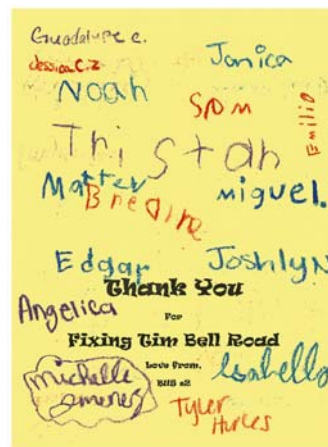
We received a letter from Dean and Amy C. "We want to thank you for the superb and professional resurfacing job that your crew recently completed on Blue Gum Avenue. The quality of the work looks great—it's a nice and smooth finish..."

Liz P. called to say, "Thank you!" for responding so quickly to sweep up broken glass in front of her house. She was afraid of getting a flat tire.

Allen L. wanted to thank the bridge crew for repairing the damaged bridge over the MID canal at Rice Road

and McGee Avenue. "The crew did a great job, and worked very quickly."

Sara G. regarding our crew working on Bennett. She wanted to "commend them for their work and greatly appreciates them taking the extra time" for letting her know the work was completed.



We received an extra special thank you note from the school children who ride on Waterford Unified's Bus #2 for "Fixing Tim Bell Road." (See note on left). 😊

Public Works
1716 Morgan Road
Modesto, CA 95358-5805

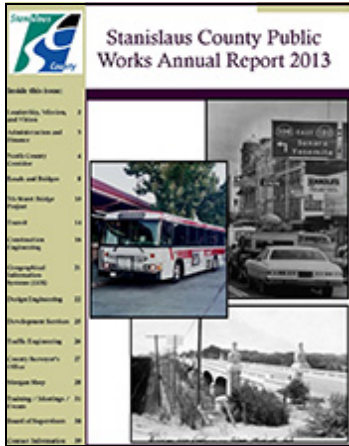
Phone: 209-525-4130
Fax: 209-541-2505

1010 10th Street, Suite 4204
Modesto, CA 95354-0870

www.stancounty.com/publicworks

Articles by Public Works Writers
Published by Keimi Espinoza 

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



Public Works' 2013 Annual Report is available online at the link below.

Created by
Denae Davis

Edited by
Sylvia Jones and
Keimi Espinoza

<http://www.stancounty.com/publicworks/pdf/2013-annual-report.pdf>

Do you know what this is?
Submitted by Olivia Tanner



Answer: This is a cast iron ladle for melting lead sinkers.



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@dpwmachado

Stanislaus County's Assistance Hotline:
1 (877) 2ASSIST / 1 (877) 227-7478

Job title corrections to last quarter's issue.
Fayma Ishaq is an Associate Planner. David Gein was
and Rich Brown is an Engineering Technician.

My Story ~ Angélica Arellano, Confidential Assistant III

¡Hola! My name is María Maura Angélica Arellano Báez. (You see why I just go by Angélica?) Although I was born in México, I was raised in San Diego and consider it to be my hometown. I am the eldest of five children born to privilege. The privilege of Over the Line Tournaments (softball in the sand) at Mission Bay, roadside tacos in Tijuana, and unlimited access to the museum of choice at Balboa Park. It was also my privilege to attend the University of California in San Diego from which I graduated with a B.A. in Political Science. As a student at UCSD, I dreamt of a life in the field of diplomacy. I envisioned myself working in an embassy somewhere tropical (but not too hot), away from any political upheaval or budding revolution.... and that's how I came to work for Stanislaus County!



I have six children (yes, you read that right); four girls and two boys. Two are biological children the other four are by choice. My children range in age from 2 to 12 years old. Although I love them very much, I don't want to say "darling children" because that all depends on what day of the week it is.

In my spare time, I like to come to work here at Public Works. I enjoy adult conversations, well thought out plans, and the occasional department potluck. One of my passions is archeology. I dream of the day all of my kids are on their own, and I can resume my travels around the world looking for lost treasures.

Do You Remember Four Years Ago?

Time sure flies when you're having fun. Can you believe it's been four years (July 2010) since the Public Works Administration, Finance, Geographical Information Systems, and Survey divisions moved to Morgan Road from Tenth Street Place? Development Services and Transit divisions are still at Tenth Street Place assisting our customers.

Staff Updates and News

New Employees:

John Jacobo (Road Maintenance Worker I) joined our Roads Division on 9/8/14.

Israel Maldonado (Road Maintenance Worker I) joined our Roads Division on 9/15/14.

Darla Moen (Administrative Clerk III) joined our Development Services & Transit Divisions on 7/22/14.

Welcome aboard!

New Children and Grandchildren:

Wes Eslinger (Road Maintenance Worker III) has a new son named Logan born on 9/10/14.

Eric Moore (Road Maintenance Worker III) has a new son named Tristan born on 8/19/14.

Robert Rocha (Road Maintenance Worker III) has a new granddaughter named Avery born on 7/1/14.

Charles Vasquez (Engineering Staff Services Coordinator) has a new granddaughter named Caydee (Caydee) born on 8/13/14.

Congratulations!