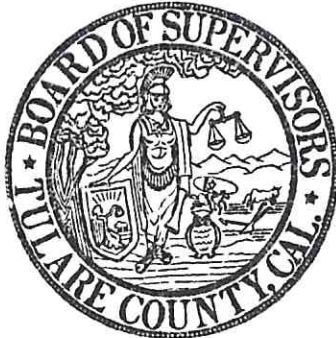


BEFORE THE BOARD OF SUPERVISORS COUNTY OF TULARE, STATE OF CALIFORNIA

IN THE MATTER OF APPROVE)
SUBMISSION OF HIGHWAY SAFETY) Resolution No. 2018-0648
IMPROVEMENT PROGRAM (CYCLE 9))
FUNDING APPLICATION)

UPON MOTION OF SUPERVISOR ENNIS, SECONDED BY SUPERVISOR VANDER POEL, THE FOLLOWING WAS ADOPTED BY THE BOARD OF SUPERVISORS, AT AN OFFICIAL MEETING HELD JULY 31, 2018, BY THE FOLLOWING VOTE:

AYES: SUPERVISORS CROCKER, VANDER POEL, SHUKLIAN, WORTHLEY,
AND ENNIS
NOES: NONE
ABSTAIN: NONE
ABSENT: NONE



ATTEST: MICHAEL C. SPATA
COUNTY ADMINISTRATIVE OFFICER/
CLERK, BOARD OF SUPERVISORS

BY: Mary Ronello
Deputy Clerk

1. Approved the submission of the grant application to the Highway Safety Improvement Program (HSIP) for the following projects:
 - a. Avenue 144 and Road 96 Intersection Improvements in the amount of \$3,866,000; and
 - b. Overhead Red Flashing Beacons at two Intersections (Avenue 256 & Road 164 and Avenue 240 and Road 140) in the amount of \$278,000; and
 - c. Pedestrian Crossing Enhancements at John J. Doyle Elementary, in the amount of \$220,000; and
 - d. Guardrail Upgrade along Piedra Drive (D179), in the amount of \$415,000.
2. Authorized the Director of the Resource Management Agency or his designee to sign the grant application.

RMA

HAR
07/31/2018



**RESOURCE MANAGEMENT
AGENCY
COUNTY OF TULARE
AGENDA ITEM**

BOARD OF SUPERVISORS

KUYLER CROCKER
District One
PETE VANDER POEL
District Two
AMY SHUKLIAN
District Three
J. STEVEN WORTHLEY
District Four
MIKE ENNIS
District Five

AGENDA DATE: July 31, 2018

Public Hearing Required	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Scheduled Public Hearing w/Clerk	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Published Notice Required	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Advertised Published Notice	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
County Counsel Sign-Off	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Meet & Confer Required	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Electronic file(s) has been sent	Yes	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>
Budget Transfer (Aud 308) attached	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Personnel Resolution attached	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Agreements are attached and signature line for Chairman is marked with tab(s)/flag(s)	Yes	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
CONTACT PERSON: Celeste Perez PHONE: (559) 624-7010				

SUBJECT: Approve Submission of Highway Safety Improvement Program (Cycle 9) Funding Application

REQUEST(S):

That the Board of Supervisors:

1. Approve the submission of the grant application to the Highway Safety Improvement Program (HSIP) for the following projects:
 - a. Avenue 144 and Road 96 Intersection Improvements in the amount of \$3,866,000; and
 - b. Overhead Red Flashing Beacons at two Intersections (Avenue 256 & Road 164 and Avenue 240 and Road 140) in the amount of \$278,000; and
 - c. Pedestrian Crossing Enhancements at John J. Doyle Elementary, in the amount of \$220,000; and
 - d. Guardrail Upgrade along Piedra Drive (D179), in the amount of \$415,000.
2. Authorize the Director of the Resource Management Agency or his designee to sign the grant application.

SUMMARY:

The Highway Safety Improvement Program (HSIP) is a federal funding source for road improvement projects administered by the Federal Highway Administration (FHWA) through the California Department of Transportation (Caltrans) as part of the Moving Ahead for Progress in the Twenty First Century (MAP-21) Act.

Local agencies are eligible to apply for HSIP grant funding to implement traffic collision countermeasures to reduce the frequency and severity of traffic collisions

SUBJECT: Approve Submission of Highway Safety Improvement Program (Cycle 9)
Funding Application

DATE: July 31, 2018

on their maintained roadways. Projects can range from \$100,000 to \$10 million in cost.

Tulare County has been awarded approximately \$8.6 million in HSIP funding for Safety related projects since November 2012 (Cycles 5 through 8).

Projects awarded under previous cycles of the HSIP include the following projects:

- **Reservation Road Safety Improvement Project (Cycle 5)** – Guardrail and audible all weather striping improvements
- **Various Stop Controlled Intersection (Cycle 5)** – Signage and striping improvements
- **57 Intersection Safety Improvement Project (Cycle 6)** – Signage, striping and high friction surface treatment improvements
- **Avenue 152 Safety Improvements (Cycle 6)** – Traffic signal, left turn lanes, and rumble strips improvements
- **Avenue 146 Corridor Improvement (Cycle 7)** – Guardrail and rumble strips improvements
- **Avenue 328 Corridor Improvement (Cycle 7)** – Left turn lanes, rumble strips, signage and striping improvements
- **Avenue 232 Corridor Improvement (Cycle 7)** - Left turn lanes, rumble strips, signage and striping improvements
- **Drive 134 (Spacer Drive) Corridor Improvement (Cycle 8)** – Rumble strips, advance flashing beacons, signage and marking improvements.

From the projects listed above, the Cycle 5 and Cycle 6 projects have either been completed or will be bid out for construction this year. The other projects are in various stages of implementation ranging from nearly completed engineering to preliminary design.

Similar to previous HSIP funding cycles, projects for this current cycle (Cycle 9) will be awarded based on a competitive, data driven selection process, primarily based on a benefit/cost analysis. Projects with the highest benefit to cost (B/C) ratio, compared to other competing agencies statewide, will be selected for funding. In this funding allocation method, proposed projects are only successful when a location has a documented history of collisions.

New for this HSIP funding cycle, approximately 25% of the HSIP total funding will be used for projects that have high potential for safety issues, but with no accident

SUBJECT: Approve Submission of Highway Safety Improvement Program (Cycle 9) Funding Application

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history. Thus, B/C ratios are not applicable for this portion of the funding. This “set-aside” results in opening up the criteria for the types of projects that can be submitted for consideration. Each of the set-aside category has a limit for maximum funding per agency. The Cycle 9 set-aside categories include the following:

- High Friction Surface Treatment Upgrades
- Guardrail Upgrades
- Horizontal Curve Signing
- Pedestrian Crossing Enhancements
- Set-aside for Tribes

Grant applications are due August 31, 2018. Caltrans expects that the selected project applicants will be notified in October of 2018.

The Tulare County Resource Management Agency (RMA) has performed a traffic collision analysis at various locations throughout the County in accordance with the HSIP guidelines and identified the following projects as the most competitive projects (high B/C ratios) for submission to request HSIP Cycle 9 funding:

Avenue 144 and Road 96 Intersection Improvement

The intersection of Avenue 144 and Road 96, located west of Tipton, was identified with higher than average collisions. Based on the high number of right angle crashes at the intersection, staff believes converting the existing intersection into a roundabout would help reduce the collision frequency and severity at the intersection.

The roundabout countermeasure provides an alternative to signalization and all-way-stop-controlled intersections. Roundabouts can serve the moderate traffic volumes with less delay than all-way stop controlled intersections and provide fewer conflict points. Crashes at roundabouts tend to be less severe because of the speed constrains and elimination of left-turn and right angle movements.

The overall project cost is estimated at approximately \$3,866,000, with a calculated B/C ratio of approximately 3.5. If authorized, this project would require approximately \$140,000 in local match, which would be covered by Road Funds.

Overhead Red Flashing Beacons at Two Intersections (Avenue 256 & Road 164 and Avenue 240 & Road 140)

The intersections of Avenue 256 & Road 164 and Avenue 240 & Road 140, located northeast of City of Tulare, were identified with higher than average collisions. Based on the identified collisions and site limitations, installation of overhead red flashing beacons at the existing all-way stops would improve traffic safety and help reduce the collision frequency, or severity, at these locations. Flashing beacons provide a visible signal to the presence of an intersection and can be very effective in rural areas.

The overall project cost is estimated at approximately \$278,000, with a calculated

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B/C ratio of approximately nineteen (19). If authorized, this project would require approximately \$33,000 in match, which would be covered by the Road Funds.

Pedestrian Crossing Enhancements: John J. Doyle Elementary

This project would utilize the Pedestrian Crossing Enhancements HSIP Set-Aside component to improve the crossing at John J. Doyle Elementary. John J. Doyle Elementary was selected for pedestrian crossing enhancements based on the existing location and condition of the crosswalk. The following pedestrian crossing enhancements features have been selected for this project:

- Installing concrete islands to reduce the crossing distance along Orange Ave.
- Installing curb, gutter and sidewalk adjacent to crosswalk.
- Installing Synchronized Flashing Beacons as advance warning devices.
- Installing Rectangular Rapid Flashing Beacons (RRFB) at the crosswalk.
- Upgrade crosswalk markings.

The overall project cost is estimated at approximately \$220,000. If authorized, this project would require approximately \$18,000 in local match, which would be covered by the local Road Funds.

Guardrail Upgrade: Along Piedra Dr. (D179)

This project would utilize the Guardrail Upgrades HSIP Set-Aside component to improve the existing 2,200-foot long stretch of guardrail system along Piedra Dr. located adjacent to the Friant Kern Canal. The existing guardrail is outdated and does not meet current guardrail standards.

The overall project cost is estimated at approximately \$415,000. If authorized, this project will be 100 percent federally funded.

FISCAL IMPACT/FINANCING:

No Net County Cost.

The cost of preparing the preliminary analysis and application submissions are not reimbursable under the HSIP program; however, is budgeted in the current fiscal year Road's Budget.

Based on the project's maximum Federal Reimbursement Ratio and the proposed countermeasure being utilized, a local match will be required to cover a percentage of the project's overall cost. If the proposed projects are awarded, a total of \$191,000 will be required as local match. Local Road Funds will be utilized to cover the local match.

LINKAGE TO THE COUNTY OF TULARE STRATEGIC BUSINESS PLAN:

Strategic Initiative: This project will enhance the safety and security of the public by improving the transportation infrastructure for both the general population in the

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region and the motorists using these facilities.

ADMINISTRATIVE SIGN-OFF:



Reed Schenke, P.E.
Director

Cc: County Administrative Office

Attachment(s): Attachment A - Site Vicinity Map






Attachment “A”

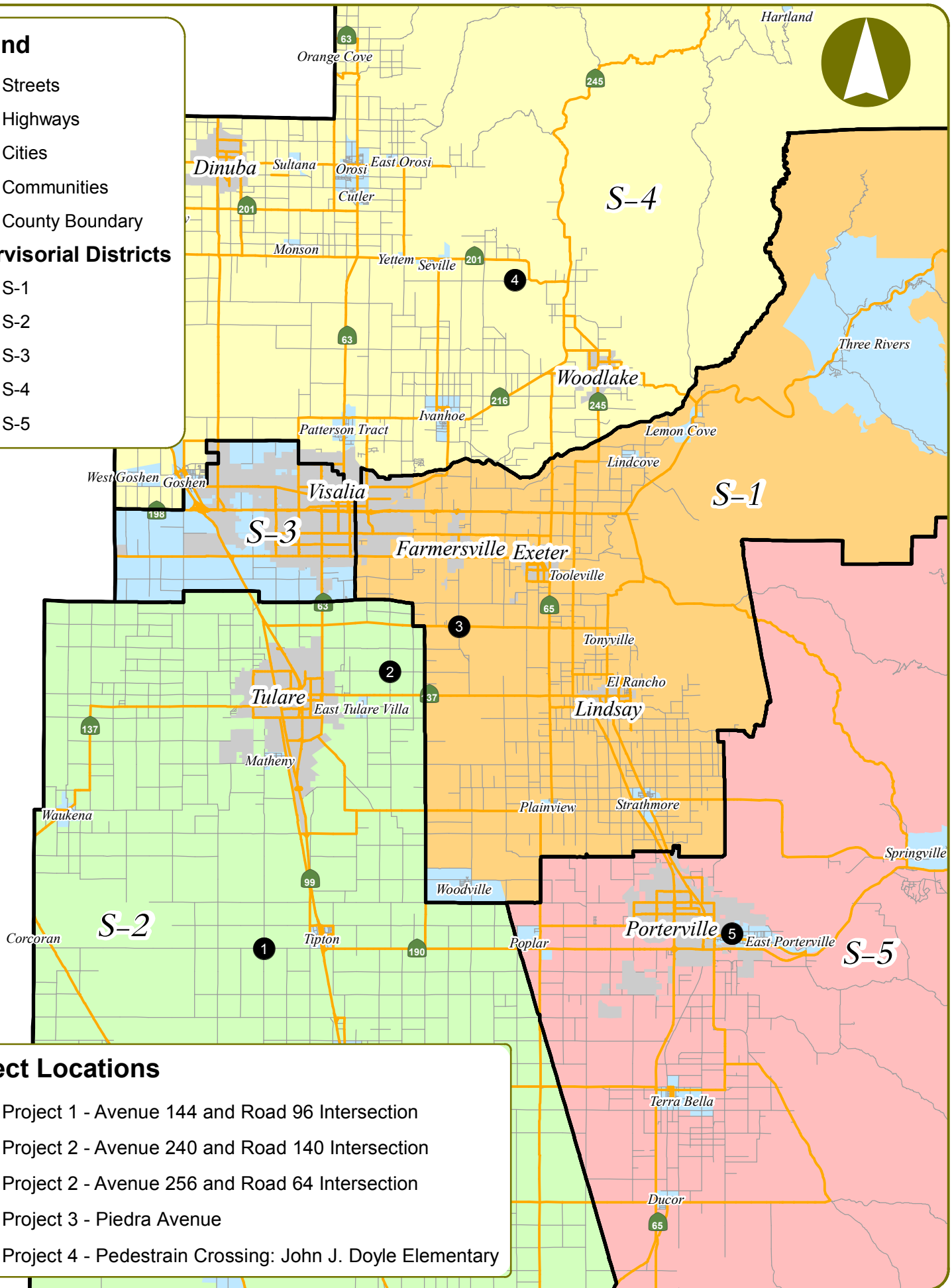
Site Vicinity Map

Legend

- Streets
- Highways
- Cities
- Communities
- County Boundary

Supervisorial Districts

-  S-1
-  S-2
-  S-3
-  S-4
-  S-5



Project Locations

- 1** Project 1 - Avenue 144 and Road 96 Intersection
- 2** Project 2 - Avenue 240 and Road 140 Intersection
- 3** Project 2 - Avenue 256 and Road 64 Intersection
- 4** Project 3 - Piedra Avenue
- 5** Project 4 - Pedestrian Crossing: John J. Doyle Elementary

