

Preliminary Investigation Check List

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI -District-1	Construction, Maintenance, and Long Term Impacts to Old Growth Conifers Abutting Highways	D-1	Deborah Harmon	Harold Hunt	CTC	Completed	Completed	9/1/11	11/9/11	Satisfied with PI. PI was not posted on DRI's website because of the legal ramification in California on this topic. website
PI-District-4	The Relationship between Corner Curb Radius and Injury Severity at Locations with Pedestrian Crossings	D-4	Beth Thomas	Bob Justice	Tech Transfer Librarians	Completed	Completed	12/12/11	3/22/12	PI submitted as NCHRP candidate FY2013
PI-District-1	Traffic Noise Generated by Rumble Strips	D-1	Dana York	Joel Retanan	CTC	Completed	Completed	1/20/12	4/17/12	Satisfied with PI-research project
PI-District-North Region	Cured In Place Pipes (CIPP) and Thermoplastic Resin(s) Toxicity Impacts to Receiving Waters	North Region	David Melendrez/Sean Penders	Tam Nguyen / Fred Yazdan	CTC	Completed	Completed	3/16/12	12/3/12	Satisfied with PI-next phase -PM (Fred Yazdan) will lead panel forth in new research project for FY 13/14.
PI-District-12	Automated Video Incident Detection System	D-12	Mort Fahrtaash	Fred Yazdan	CTC	Completed	Completed	6/21/12	11/14/12	Next phase –PM (Fred Yazdan) will lead Panel in contacting Mass DOT, and proposing a new research project (Pilot project in D-7 and D-12) for FY 13/14.
PI-District-11	Optimum Amount of Money/Resources for Public Outreach During a Major Planned Closure	D-11	Laurie Berman	Melissa Clark	Melissa Clark	Completed	Completed		11/23/15	The project manager stated District 10 appeared to be satisfied with the final report no feedback was received.
PI-District-5	Forecasting Habitat Changes in the Scott Creek Estuary Due to Replacing the Bridge on SR 1 (Bridge # 360031)	D-5	Brandy Rider	Harold Hunt	CTC	Completed	Completed	7/9/14	1/13/15	The final report was shared with Public Affairs in District 5. The panel is considering going forward with a research project.

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PI-District-6	Safety and Viability of Bicycle Facilities in the San Joaquin Valley	D-6	Joanne Striebich	Harold Hunt	CTC		On-Hold	On-Hold			
PI-District12	Study on the use of 3rd-party GPS data for Mobility Performance Report (MPR) and Bottleneck Identification	Transp Safety & Mobility	Farid Nowshiravan	John Slonaker	CTC		On-Hold	On-Hold	3/15/13		
PI-District-4	H Dana Bowers Safety Roadside Rest Area Study	D-4	Wingate Lew	Asfand Yar Siddiqui	CTC		Completed	Completed	4/8/16	7/15/16	Satisfied with PI
PI-0909-DC	Green Infrastructure - Guidelines to Implement Climate Change Adaptation Strategies in Highway Roadsides	Division of Design	Keith Robinson	Harold Hunt	CTC		Completed	Completed		2/11/10	Satisfied with PI
PI-0951-DC	Tree Safety	Division of Design	Keith Robinson	Harold Hunt	CTC		Completed	Completed		4/1/10	Satisfied with PI
PI-0919-Design	Roadside Management Strategies to Reduce Greenhouse Gases	Division of Design	Keith Robinson	Doug Brown	CTC		Completed	Completed	5/18/10	7/6/10	Satisfied with PI
PI-5911-Design	Consultant vs. Staff Cost Comparison (1)	Division of Design	Said Ismail	Kamal Sah	CTC		Completed	Completed	5/1/11	7/16/12	Satisfied with PI
PI-6111-Design	Consultant vs. Staff Cost Comparison (2)	Division of Design	Said Ismail	Kamal Sah	CTC		Completed	Completed	8/1/11	10/1/11	Satisfied with PI
PI-0111-Design	Effectiveness of Traffic Calming Techniques	Division of Design	Doug Brown	Harold Hunt	CTC		Completed	Completed	3/28/11	11/16/11	Satisfied with PI-possible research project

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PI-0212-Design	Partnering Benchmark Study	Division of Design	Mark Leja	Roya Hassas	CTC	Completed	Completed	1/3/12	4/11/12	Satisfied with PI possible research project
PI-0312-Design	Enhanced Constructability Review (1)	Division of Design	Terry Abbott/ Tim Craggs/ Mark Leja/ Mark Turner	Kamal Sah	CTC	Completed	Completed	12/19/11	3/12/12	Satisfied with PI possible research project
PI-1112-Design	Enhanced Constructability Review (2)	Division of Design	Homar Noroozi, Juan Araya, Jesus Mora ,Mark Turner, Chuck Suszko, Jim Cotey	Haniel Chung	CTC	Completed	Completed	9/25/13	9/10/14	Panel will request DRISI Communication to do a Research Connection Work shop for the PI topic.
PI-0212-Design	Effects of Digital Outdoor Advertising Displays on Driver Safety	Division of Design	Doug Brown	Roya Hassas	CTC	Completed	Completed	6/6/12	11/14/12	PI Panel agreed to change the word "safety" to "driver behavior" in many cases throughout the PI report. Customer will send email with scope for possible research project through DRI or NCHRP.
PI-0102-Design	Low Profile Barrier Alternatives	Division of Design	Doug Brown	Fred Yazdan	CTC	Completed	Completed	2/4/13	8/22/13	John Jewel's office will prepare a memo to be signed by Randy Hiatt requesting FHWA approval to use Washington DOT's 20 inch low profile barriers with backfill without testing. If the request is not approved might consider further research.
PI-0212-Design	The State of the Practice of Transportation Landscape Architects (P956)	Division of Design	Jennifer Taira	Gloria Gwynne	CTC	Completed	Completed	7/7/14	11/10/14	CTC delivered the final the draft report on Roles of Landscape Architects on 11/10/14. Panel made a few revision. Once revision are made report will be closed out.

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PI-0314-Design	Cycle Track	Division of Design	Kevin Herritt	Gloria Gwynne			Completed	Completed	1/5/15	7/20/15	Design will share the findings with Traffic Operation to develop a cycle track guideline.	
PI-1205-Design	Highway soil compaction and safety for storm water treatment BMPs.	Division of Design	Sean Penders PE, Ray Tritt	Sukhdeep Nagra	CTC		Completed	Completed	4/12/15	8/20/15	Satisfied with PI-Will proceed forth with a research project.	
PI-0615-Design	Identifying Best Practices for Evaluation of Design Innovations	Division of Design	Janice Benton and Ray Tritt	Sukhdeep Nagra	CTC		Completed	Completed	6/1/14	7/1/15	Satisfied with PI	
PI-1015-Design	Green Infrastructure Strategies for Transportation Systems	Transportation Safety & Mobility	Lee Provost	CTC			Completed	Completed	10/27/15	10/27/15	12/30/15	Satisfied with PI
PI-0214-Design	Corrugated Steel Culvert Corrosion & Abrasion Performance	Division of Design	Glenn DeCou, Paul Davies , Leo Martinez	Sukhdeep Nagra		No longer needed	No longer needed				PI is no longer needed the Caltrans in-house Pilot Study for this same project which concluded further research was needed.	

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PI-0935-Design	Analyzing Risk Assessment for Worker Safety.	Division of Design	Jennifer Taira,Dawn Grinstain,Duper Tong, Theresa Drum, Jack Broadbent	Gloria Gwynne	CTC		Completed	Completed	11/9/15	6/23/16	Customer Rep has requested to proceed forth with a research Project
PI-0815-Design	Fixed objects and non-recoverable slopes”	Division of Design	Jennifer Taira	TBD		1	In-queue				
PI-0103-Design	Sustainable Solutions by Establishing Native Plants, Long-Term Success Rates & Cost/Benefits of Specific Planting	Division of Design	Jennifer Taira	TBD		2	In-queue				
PI-0104-Design	Performance Measures for Roadside Vegetation	Division of Design	Jennifer Taira			3	In-queue				
PI-0928-Design	Green Buildings	Division of Design	Jennifer Taira	Doug Brown	Student	No longer needed	No longer needed	6/1/10			
PI-0715-Construction	Cost-Benefit Analysis for the Use of Automatic Machine Guidance in Construction	Division of Construction	Ken Darby	David Lim	CTC		Completed	Completed	5/7/15	9/15/15	CTC delivered the final report. Satisfied with PI.
PI-0815-Construction	Cost effectiveness of closing additional traffic lane(s) adjacent to the work area	Division of Construction	Celso Izquierdo, Chuck Suszko, Michael Samadian	Joe Horton	CTC		Completed	Completed	9/15/15	11/15/16	CTC delivered the final report. Satisfied with PI.
PI-1115-Construction	Construction Safety Coordinator	Division of Construction	Samir Ead,Randy Hiatt, Chuck Suszko, Celso Izquierdo,Ed Yarbrough	John Jewell	CTC		Completed	Completed	11/5/15	4/22/16	CTC delivered the draft report on 3/18/2016.

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PI-0803-DRISI	Real-Time Data to Improve En Route Decision Making and Reduce Transportation Demand (NCHRP Candidate)	DRISI	Sheila Chowdury/ Thomas Schriber	Hassan Aboukhadijeh	CTC	Pilot	Completed	--	7/1/09	NCHRP Success
PI-0211-DRISI	State DOTs and how they implement research results	DRISI	Rebecca Boyer	Rebecca Boyer	CTC	Completed	Completed	2/11/11	4/1/11	Satisfied with PI results used for March 2011 Peer Exchange
PI-0901-DRISI	Intellectual Property: National and International Perspectives	DRISI	Larry Orcutt		CTC	Completed	Completed		6/1/10	Satisfied with PI
PI-0812-DRISI	Application of Cross-Asset Optimization in Transportation Asset Management: A Survey of State Practice and Related Research.	DRISI	Steve Guenther	K Scott Williams	CTC	Completed	Completed	1/13/12	8/23/12	PI results were used to develop white paper for Executive Board.
PI-0113-DRISI	Alternative Transportation Financing Strategies	DRISI	Debra Prichard, Nizar Melehani, Pam Korte, Barry Padilla, Rahul Srivastava, Nancy Chinlund, Nicole Longoria, Norma Ortega, Kome Ajise, Coco Briseno	K Scott Williams	CTC	Completed	Completed	12/19/12	2/4/13	Customers were pleased with the PI, and may be requesting a future follow-on PI to dig down into the more progressive states to ask questions about their implementation costs and strategies.
PI-0902-DRISI	Intellectual Property: California	DRISI				No longer needed	No longer needed			
PI-1112-DRISI	Impacts of Increasing Vehicle-Occupancy Requirements on HOV/HOT Lanes	DRISI	Joseph Rouse	Fred Yazdan	CTC	Completed	Completed	12/20/12	4/15/13	CTC delivered the PI and case studies on 4/5/13. Satisfied with PI.
PI-1112-DRISI	Geospatial Highway Inventory and Traffic Safety Application	DRISI	Mark Samuelson	Mandy Chu	CTC	Completed	Completed	7/19/13	11/19/13	Satisfied with PI
PI-12016-DRISI	Tools for Measuring the Impact of Active Transportation on VMT	DRISI	Darwin Moosavi	Lauren Iacobucci	CTC	Completed	Completed	9/15/15	1/20/16	Possible research project.

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PI-0725-DRISI	Models of Project Delivery Workforce Development in Transportation	DRISI	Said Ismail	TBD	CTC	Completed	Completed	7/31/15	1/10/16	CTC will delivered the draft report 12/1/15.
PI-0715-DRISI	Resiliency Strategies for Transportation Systems	DRISI	Nick Burmas	Nick Burmas	CTC	Completed	Completed	8/20/15	4/12/16	The Resiliency team will use the finding to help develop resiliency scores.
PI-1215-DRISI	Quantifying Passenger Rail Access Mode Shift	DRISI	Ben Lichty	Lauren Iacobucci	CTC	Completed	Completed	1/27/16	5/31/16	Next step research project
PI-0816-DRISI	Project Delivery Document Management Systems	DRISI	Micheal Whiteside	Hamid Ikram	CTC	In -progress	In-progress	8/18/16		CTC delivered the draft survey on 8/23/16.
PI-1210-EV	Environmentally Friendly Elimination of Moss Pavement Enhance Safety	Environmental	Deborah Harmon	Harold Hunt	CTC	Completed	Completed	2/8/11	4/25/11	Satisfied with PI-possible research project
PI-1015-EV	Cultural Resources Public Outreach	Environmental	Glenn Gmoser	Harold Hunt	CTC	Completed	Completed	10/28/10	2/18/11	Satisfied with PI-PI submit as a candidate for the Synthesis FY 2013
PI-0711-EV	Use of Cool Pavements to Reduce Energy Use and Mitigate Greenhouse Gas Emissions	Environmental	Bruce Rymer	Harold Hunt	Tech Transfer Librarians	Completed	Completed	6/8/11	11/15/11	Satisfied with PI results used at an environmental conference
PI-0701-EV	Comparative Life Cycle Costs of Culverts That Provide Unimpeded Fish and Wildlife Movement	Environmental	Amy Pettler/ Richard Hill	Harold Hunt	CTC	Completed	Completed	9/13/12	3/20/12	Satisfied with PI-possible research project
PI-0812-EV	Promoting the Ability of Sensitive Reptiles and Amphibians to Cross Highway Corridors (1)	Environmental	Margaret Gabil	Harold Hunt	CTC	Completed	Completed	8/24/12	12/4/12	Panel wants to pursue a follow-on PI, on California species' life history and habitat requirements. With Kendra Levine, at UC Berkeley Library.

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PI-0313-EV	Promoting the Ability of Sensitive Reptiles and Amphibians to Cross Highway Corridors (2)	Environmental	Amy Pettler/ Richard Hill	Harold Hunt	Tech Transfer Librarians		Completed	Completed	4/3/13	11/7/13	Next step research project Harold Hunt will contact the Fish & Wildlife and USGS for a list of their interest and pressing issue on this topic.
PI-0214-EV	Improved Exclusion Barriers for Desert Tortoises	Environmental	Kyle Myrick, Amy Golden, Scott Quinnell	Harold Hunt	DRISI (In House PI)		Completed	Completed	4/3/14	6/25/14	Panel wants to develop an Official Design Drawing (engineering system). Harold Hunt and Amy Golden (Env) develop the design plans.
PI-0614-EV	Fencing and One-Way Gates to Reduce Wildlife-Vehicle Collisions for Small and Medium Sized Animals	Environmental	Celina Oliveri	Harold Hunt	CTC		Completed	Completed	6/11/14	10/9/14	Waiting for the NCHRP Project 25-25, Task 84 re: SR 23 PI report to be completed to determine to do a pool fund or research project
PI-0723-EV	Monitoring the Endangered tidewater goby using environmental DNA in water samples	Environmental	Amy Golden, Susan Leroy	Harold Hunt	CTC		Completed	Completed	11/21/14	3/3/15	Satisfied with PI findings. Will proceed forth with research project.
PI-0116-EV	Determining the Appropriate Amount of Time to Isolate Portland Cement Concrete from Receiving Waters	Environmental	Amy Golden, Margaret Lawrence	Harold Hunt	CTC		Completed	Completed	7/15/15	2/16/16	Findings from PI report was provided to California Department of Fish and Wildlife
PI-1215-EV	Tide Gate Hydraulic Analysis	Environmental	Bruce Swanger, Melinda Molnar, Amy Golden	Harold Hunt	CTC		Completed	Completed	1/16/16	5/2/16	Satisfied with PI.
PI-1115-EV	California Tiger Salamander Landscape Genetics	Environmental	Amy Bailey, Jim Henke, Amy Golden, Nancy Siepel, Paul Andreano	Harold Hunt	CTC		In -progress	In-progress	6/2/16		The project Harold Hunt will perform the In-House PI. He delivered the draft report on 8/11/16.

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PI-0923-EV	Statewide Cultural Property Information System	Environmental	Glenn Gmoser			1	In-queue			
PI-0932-EV	Best Practices for Native American Consultation and Coordination.	Environmental	Glenn Gmoser			2	In-queue			
PI-0939-EV	Geoarchaeological Sensitivity Modeling	Environmental	Glenn Gmoser			3	In-queue			
PI-0943-EV	Cost Effective and Innovative Mitigation Practices	Environmental	Glenn Gmoser			4	In-queue			
PI-0946-EV	Practical Applications of Remote Sensing	Environmental	Glenn Gmoser			5	In-queue			
PI-0949-EV	Research Contexts for Archaeology and History	Environmental	Glenn Gmoser			6	In-queue			
PI-1014-EV	Joshua Trees (Yucca Brevifolia) and Highway Safety	Environmental	Paul Caron			No longer needed	No longer needed	6/8/10		
PI-0947-GS	'Local' with 'Global' NDT Methods to Assess Capacity of PT Box-Girder Structures	Geotech/ Structural	Charles Sikorsky			No longer needed	No longer needed			
PI-0913-GS	Evaluate Premixed Polyester Concrete as Wearing Surface on Orthotropic Steel Decks	Geotech/ Structural	Mike Keever/ Paul Chung			No longer needed	No longer needed			

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PI-0933-GS	Improved LRFD & LRFR Specifications for Permit & Fatigue Truck Loads	Geotech/ Structural	Sue Hida	Sue Hida	CTC		Completed	Completed	11/2/09	1/10/10	DRI Research Project
PI-0940-GS	Geophysical Methods for Geotechnical Site Characterization	Geotech/ Structural	Mark Willian	Bill Owen	Bill Owen		Completed	Completed		3/29/10	Satisfied with PI
PI-1011-GS	Steel Girder End Panel Shear Resistance	Geotech/ Structural	Lian Duan	Charles Sikorsky	Charles Siorsky		Completed	Completed	10/28/10	10/28/10	
PI-0913-GS	Unmanned Aerial Systems (UAS) for Steep Terrain Investigations	Geotech/ Structural	Ron Karpowicz, John Duffy, Craig Hannenian, Jim Morris,	Loren Turner	CTC		Completed	Completed	5/27/14	9/8/14	Panel will proceed forth with a research project and NCHRP process.
PI-0915-GS	Development of a Validated Methodology for Seismic Analysis and Design of Standard & Pile Supported Retaining Walls	Geotech/ Structural	Charles Sikorsky	Nick Burmas	Hamid Sadraie		Completed	Completed		9/21/15	Research project task ID: 2879
PI-0928-GS	Post-Tensioned Box Girder Deck Replacement Methodology	Geotech/ Structural	Charles Sikorsky	Nick Burmas	Hamid Sadraie		Completed	Completed		9/28/15	Research project Task ID: 2781
PI-09131-GS	Rockfall Internal Measurement Unit (RIMU) "SmartRock"	Geotech/ Structural	Bill Webster, Jim Duffy, Brian Hinman, Craig Hannenian,	Loren Turner			Hold	Hold			
PI-0944-GS	Calibration of the CEB Equations for Shrinkage Prediction to Improve Bridge Designs	Geotech/ Structural	Mike Keever	Peter S. Lee			1	In-queue			
PI-0924-GS	Extending Service Life and Performance of Bridge Decks	Geotech/ Structural	Mike Keever/ Mike Johnson	Steve Sahs			2	In-queue			

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PI-1111-DOE	Effective Management of DOT Equipment (1)	Division of Equipment	Larry Orcutt	Tori Kanzler	CTC	Completed	Completed			Satisfied with PI
PI-0113-DOE	Effective Management of DOT Equipment (2)	Division of Equipment	Larry Orcutt	Bob Meline	CTC	Completed	Completed	2/5/13	4/21/13	Follow on for Fleet Equipment is a peer exchange.
PI-1111-DOE	GPS on Equipment	Division of Equipment	Larry Orcutt	Tori Kanzler	CTC	Completed	Completed	12/16/11	12/16/11	Research project and implementation
PI-1112-DOE	Fleet Equipment Asset Management-Performance Measures	Division of Equipment	Larry Orcutt	Bob Meline	CTC	Completed	Completed	12/6/12	12/28/12	PI submit as a candidate for NCHRP Synthesis FY 2013
PI-0614-DOE	Equipment Production and Procurement Costs	Division of Equipment	Kris Teague, Ed Giroux	Joe Horton	CTC	Completed	Completed	5/16/14	6/24/14	Satisfied with PI-
PI-1114-DOE	Best Practices of Ways to Reduce Illness and Injury Rate in Heavy Duty Mechanics	Division of Equipment	Mike Tanner, Lisa Kunzman, Bob Myers, Dave Roth	Robert Buendia	CTC	Completed	Completed	9/23/14	4/16/15	CTC completed a survey of current best practices and delivered the final report on 2/9/2015
PI-0315-DOE	Enhancing the Visibility of Caltrans Employees and Vehicles	Division of Equipment	Lisa Kunzman, Theresa Drum, Gordon Wang	Joe Horton	CTC	No longer needed	No longer needed			PI is no longer needed; the research is being completed in house.
PI-0616-MA	Unrestricted Use of Adjuvant for Vegetation Control	Maintenance	Angel Graves	TBD	TBD	1	In-queue			

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PI-0616-MA	Cost Effective Washracks	Maintenance	Angel Graves	TBD	TBD	2	In-queue			
PI-0616-MA	Capacities of Pinned Steel Hinge Elements	Maintenance	Angel Graves	TBD	TBD	3	In-queue			
PI-0616-MA	Flood Flow Estimation using Large Scale Image Particle Velocimetry (LSPIV)	Maintenance	Angel Graves	TBD	TBD	4	In-queue			
PI-0416-MA	Developing Performance-based budgeting model for Caltrans' Maintenance statewide Allocations	Maintenance	Angel Graves	Joe Horton	CTC	Completed	Completed	4/8/16	7/20/16	Satisfied with PI
PI-01111-MA	Using Life Cycle Cost Analysis in Highway Project Development	Maintenance	Mike Evans	K Scott Williams	CTC	Completed	Completed	1/7/12	3/7/12	PI results were used to meet with Executive staff.
PI-07110-MA	Laws to deter the recycling of stolen metals	Maintenance	Steve Takigawa	Pete Zanewski	CTC	Completed	Completed			Satisfied with PI-potential research project
PI-07111-MA	Highway Safety Education and Outreach	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.
PI-07112-MA	Highway Safety Policies and Legal Issues	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.

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PI-07113-MA	Highway Safety Technologies	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.
PI-0908-MA	Quick Clearance for Major Traffic Incidents	Maintenance	Nader Eshghipour	Mandy Chu	CTC	Completed	Completed	9/21/09	3/8/10	DRI Research Project
PI-0812-MA	Does crack sealing have negative effects on the coefficient of friction for single track vehicles such as motorcycles?	Maintenance	Peter Vacura/ Joe Peterson/ Chuck Suzko/ Craig Copeland	Joe Holland	TBD	On-Hold	PSC has placed this PI on hold.	6/12/12		
PI-0712-MA	Flood Warning Alert System	Maintenance	Herby Lissade	Bob Meline	CTC	Completed	Completed	10/5/12	3/6/13	Will do a 2-part project plan: 1. Six month feasibility study with cost-benefit analysis on the options of purchasing vs. developing a flood warning system. 2. Purchase a or do in house project.
PI-1113-MA	Best design practices and products to deter copper wire theft.	Maintenance	Gonzalo Gomez/Agustin Rosales	Hassan Aboukhadijeh	CTC	Completed	Completed	3/25/13	5/24/13	PI findings supports the Wire Theft Prevention Task Team methodologies.
PI-0714-MA	Traction Device study	Maintenance	David Frame	Bob Meline	CTC	Completed	Completed	5/27/14	8/22/14	CTC delivered the final PI report on 7/21/14. PI results will be shared with CHP. This will possibly be a research project.

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PI-0914-MA	Avalanche Mapping Study	Maintenance	David Frame	Bob Meline	AHMCT		Completed	Completed	4/17/15	AHMCT finished the PI for the Avalanche Mapping task(Task ID 2734). Maintenance was satisfied with the results.
PI-0914-MA	FIRECAST	Maintenance	Rene Garcia	Joe Horton	CTC		Completed	Completed	9/12/14 1/9/15	Panel members discussed doing a Firecast study will work with Joe Horton and staff
PI-0213-MA	Variances in advanced warning signage	Maintenance	Theresa Drum	Joe Horton	CTC		Completed	Completed	1/22/15	The report showed Caltrans is above the level of other states for use of signage, PCMS and MAZEPP in workzones,
PI-0715-MA	Wrong-Way Driving Prevention Methods	Maintenance	Mike Hagen, Deb Larson, Brian Hadley, Jerry Champs, Prakash Sah, Great Larson Joe Horton	Lai Saetern	CTC		Completed	Completed	6/23/15	Final report has been posted on DRISI web site
PI-0215-MA	Highways Median Barrier	Maintenance	Duper Tong, Randy Hiatt, Thomas Schriber, Agustin Rosales, Gonzalo Gomez, Patti-Jo Dickinson	Jerry Kwong	CTC		Completed	Completed	3/6/15 5/15/15	Satisfied with PI
PI-0515-MA	Strategies for Replacing Field Elements	Maintenance	Ferdinand Milanes, Takeshi Tokunaga, Jason Akbari, Michelle Alvarado, Augie Rosales, Gonzalo Gomez	Joe Horton	CTC		Completed	Completed	6/26/15 1/8/16	Satisfied with PI

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PI-0914-MA	Automated Steering and control of paint striping machine	Maintenance	Gonzalo Gomez	Joe Horton	CTC		No longer needed			Joe Horton stated in maintenance's pre PSC meeting the PI is no longer needed.	
PI-0114-MO	State Aeronautics Role in an Emergency Air Operations Branch	Modal	Derek Kantar, Herby Lissade, Terry Barrie, Patrick J Miles, Dan Reese, Phillip Miller, Chris Avina	Patrick Tyner	CTC		Completed	Completed	3/16/14	10/1/14	The PI helped to complete the rewrite of the Air Coordination Group Concept of Operations that's reviewed at Cal OES
PI-0314-MO	Demand Responsive Transit Operation Based on Dynamic Passenger Information	Modal	Scott Sauer	Bradley Mizuno	Lee Provost		Completed	Completed	4/1/14	4/15/14	Satisfied with PI-possible research project
PI-0920-MO	Transit Data and Planning Integration	Modal	Scott Sauer	Bob Justice	CTC		Completed	Completed	4/3/12	7/10/12	To be addressed in a MTI research study beg Sept 2013, involving Traffic Ops, DMT, DOTP, and DIRSI"
PI-0936-MO	Assessing Park and Ride Impacts	Modal	Scott Sauer	Bob Justice	CTC		Completed	Completed	3/24/10	6/17/10	TCRP Project
PI-0903-MO	Disaster Recovery Planning	Modal	Colette Armao	Dan Lovegren	CTC		Completed	Completed	6/18/09	3/2/10	DRI Research Project
PI-0316-MO	Mobility Management Technology	Modal	Josh Pulverman, Bruce Pulverman	Lai Saetern	CTC		Completed	Completed	3/22/16	7/7/16	Satisfied with PI
PI-0915-MO	Transit Oriented Development (TOD) Evaluations	Modal	Jila Priebe	Bob Justice	Student		No longer needed	No longer needed			

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PI-0929-MO	Passenger Locomotive Air Quality	Modal	Ken Galt	Dan Lovegren			No longer needed	No longer needed		
PI-0910-PA	HMA Taper Specification/ Details	Pavement	Chris Cummings	Joe Holland	CTC	Completed	Completed	12/2/09	3/16/10	TPF project
PI-0312-PA	Recycled Concrete	Pavement	Dan Speer/ Bill Farnbach	Joe Holland	CTC	Completed	Completed	3/13/12	10/1/12	Satisfied with PI possible research project
PI-0315-PA	Joint Training and Certification of Materials Testers	Pavement	Joe Peterson	Joe Holland	CTC	Completed	Completed	2/18/15	4/10/15	Satisfied with PI report
PI-0921-PA	20 Year Flexible Pavement Rehabilitation	Pavement	Bill Farnbach			No longer needed	No longer needed			
PI-0930-PA	Interlayer for Cracking Reduction	Pavement	Bill Farnbach			No longer needed	No longer needed			
PI-0937-PA	Automatic Asphalt Concrete Quantities Estimation	Pavement	Terrie Bressette			No longer needed	No longer needed			
PI-0942-PA	Longer Lasting PCC Replacement Slabs	Pavement	Kirsten Stahl			No longer needed	No longer needed			
PI-0953-PPSI	Comparison of California to other State's DOT's on Project Initiation Documents and Reimbursement Schemes	Policy/Planning/ Programming	Nathan Smith/ Marlon Flournoy	Paul Moore	CTC	Completed	Completed	8/10/10	1/11/11	Satisfied with PI
PI-1101-PPSI	Developing Air Quality Mitigation Measures for Projects' Operational Emissions	Policy/Planning/ Programming	David Ipps	Patrick Tyner	CTC	Completed	Completed	1/31/11	6/15/11	Satisfied with PI-will request research project
PI-0916-PPSI	California Best Practices for Rural and Tribal Smart Growth (1)	Policy/Planning/ Programming	Marilee Mortenson/ Terry Parker	Bob Justice	CTC	Completed	Completed	4/13/10	8/11/10	Satisfied with PI
PI-1003-PPSI	Inactive and Abandoned Rail Corridor Preservation Study	Policy/Planning/ Programming	Todd LaCasse	Matt Hanson	CTC	Completed	Completed	3/21/11	7/25/11	Satisfied with PI
PI-1112-PPSI	How Other Transportation Agencies Address Public Health Issues	Policy/Planning/ Programming	Garth Hopkins	Bob Justice	CTC	Completed	Completed	6/17/11	11/16/11	PI submitted as background material for NCHRP research project

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PI-1108-PPSI	Smart Mobility Performance Measurement Deployment (1)	Policy/Planning/Programming	Chris Ratekin	Bob Justice	CTC	Completed	Completed	2/10/12	6/1/12	Satisfied with PI-
PI-0712-PPSI	Smart Mobility Performance Measurement Deployment (2)	Policy/Planning/Programming	Chris Ratekin	Bob Justice	Tech Transfer Lib	Completed	Completed	6/12/12	7/12/12	Tech Transfer completed the final report
PI-0413-PPSI	Smart Mobility Performance Measurement Deployment (3)	Policy/Planning/Programming	Chris Ratekin	Bob Justice	CTC	Completed	Completed	3/21/13	4/2/13	Sustainable Transportation—Smart Mobility was not selected for funding for the NCHRP Synthesis studies.
PI-1111-PPSI	Best Practices for Environmental Consideration in Systems Planning Documents (1)	Policy/Planning/Programming	Aileen Loe	Bob Justice	Tech Transfer Lib	Completed	Completed			Tech Transfer completed the final report
PI-1112-PPSI	Best Practices for Environmental Consideration in Systems Planning Documents (2)	Policy/Planning/Programming	Aileen Loe	Bob Justice	CTC	Completed	Completed			PI submitted as background material for NCHRP research project
PI-1109-PPSI	The influence of Transit on Highway Operations (1)	Policy/Planning/Programming	Fredrick Schermer/Erik Alm	Bob Justice	Tech Transfer Librarians	Completed	Completed	4/13/13	7/10/13	Tech Transfer delivered updated report on 9/25/13.
PI-0713-PPSI	The influence of Transit on Highway Operations (2)	Policy/Planning/Programming	Fredrick Schermer/Erik Alm	Bob Justice	CTC	Completed	Completed	7/22/13	11/1/13	Satisfied with PI
PI-0314-PPSI	Survey of Best Practices for Decreasing GHG Emissions Through System Management, Operational Improvements, and Pavement Condition.	Policy/Planning/Programming	Garth Hopkins, LaNae Van Valen, Rahul Srivastava, Julia Biggar, Joan Sollenberger, Nick Compin, Tom Pyle	Patrick Tyner	CTC	Completed	Completed	7/2/14	10/2/14	Satisfied with PI

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PI-1110-PPSI	Feasibility of Moving Freight on High-Speed Rail Networks	Policy/Planning/Programming	Todd LaCasse/Joanne McDermott	Patrick Tyner	CTC		Completed	Completed	11/19/14	7/14/15	CTC delivered the final PI on moving freight on high-speed rail, which incorporates the latest changes received from Joanne McDermott on 4/27/15.
PI-0115-PPSI	Methodologies for Mitigating Freight Impacts to Nearby Communities	Policy/Planning/Programming	Joanne McDermott, Marilee Mortenson , Emily Mraovich	Patrick Tyner	CTC		Completed	Completed	1/29/15	7/14/15	CTC plans to delivered final revised report by Friday, June 26.
PI-1112-PPSI	Return on Investment for Smart Growth Land Uses	Policy/Planning/Programming				1	In-queue				
PI-1113-PPSI	Electrification of Highways for Goods Movement	Policy/Planning/Programming				2	In-queue				
PI-1116-PPSI	Tribal Participation in Transportation Planning and Programming	Policy/Planning/Programming	Kimberly Johnston-Dodds			3	In-queue				
PI-0952-PPSI	Community Engagement Practices	Policy/Planning/Programming	Joshua Pulverman			4	In-queue				
PI-0955-PPSI	Best Practices from State DOT's on Transportation Planning Workload Analysis	Policy/Planning/Programming	Nathan Smith/ Mitch Baker			5	In-queue				
PI-0925-PPSI	Goods Movement Infrastructure and affected communities map	Policy/Planning/Programming	Mike Brady/ Coco Briseno/ Bob Cervantes/ Nathan Smith/ Marilee Mortenson			6	In-queue				
PI-0913-PPSI	Reducing Uncertainty in Modeling High-Speed Emissions in California (2)	Policy/Planning/Programming	David Ipps			7	In-queue				

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PI-0945-PPSI	Assessing the track records of growth models and improvements for future development	Policy/Planning/Programming	Austin Lee			8	In-queue			
PI-1115-PPSI	Modal and Long Range Plan Integration	Policy/Planning/Programming			No longer needed	No longer needed				
PI-0954-PPSI	Illegal Truck Parking and Roadside Safety in California (5)	Policy/Planning/Programming	Jeffrey Spencer			No longer needed	No longer needed			
PI-0934-PPSI	Goods Movement Data Library	Policy/Planning/Programming	Mike Brady/ Vahid Nowshiravan/ Pam Korte	Marcus Evans		No longer needed	No longer needed			
PIP-08-PPSI	Transportation System Performance Measures (3)	Policy/Planning/Programming	Coco Briseno	Bob Justice		No longer needed	No longer needed			
PI-0950-PPSI	Designing Highway Facilities to Encourage Walking, Biking and Transit ("Complete Streets")	Policy/Planning/Programming	Nancy Chinlund		CTC	Pilot	Completed		3/1/09	DRI Research Project
PI-1012-PPSI	California Rural-Urban Interactive Study	Policy/Planning/Programming	Terry Parker		Student (Kathleen)	In-queue	In-queue	4/30/10		
PI-1113-PPSI	Seamless Bike Survey	Policy/Planning/Programming			Student (JoJo)	In-queue	In-queue	4/30/10		
PI-1001-RU	Improved Chain Control Operations	Rural	Ian Turnbull/ Tim Fitzpatrick	Sean Campbell	CTC	Completed	Completed	11/18/09	4/6/10	DRI Research Project

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PI-1114-RU	Effective Methods for Ensuring Accuracy of Roadway Temperature/Ice/Chemical Sensors	Rural	Mike Beyer, Ian Turnbull	Sean Campbell	CTC		Completed	Completed	12/15/14	7/26/16	Satisfied with PI
PI-1114-RU	Reducing Animal-Vehicle Collisions Using Vehicle-Mounted Heat Detection	Rural	Lonnie Hobbs, Ian Turnbull	Sean Campbell	CTC		Completed	Completed	3/7/16	7/26/16	Satisfied with PI
PI-0416-RWLS	Right of Way Information Systems Review of Available Tools & Cost Analysis	Right of Way/ Land Surveys	Jean-Marie Hunter	Joe Horton	CTC		In-progress	In-progress	5/5/16		We plan to deliver this draft report on 8/15/16.
PI-0215-RWLS	Statewide Real Time Global Positioning System or Global Navigation Satellite System Network Implementation	Right of Way/ Land Surveys	Scott Martin,	Joe Horton	CTC		Completed	Completed	12/1/15	2/18/15	Satisfied with PI
PI-0906-SHSP	Improving Highway Advisory Radio Transmission and Predictability	Rural	Ian Turnbull	Sean Campbell	CTC		Completed	Completed	3/14/11	5/18/11	Satisfied with PI
PI-0905-SHSP	Improve Driver Decisions and Performance in High Speed, Multilane, Complex Conditions	SHSP CA-5 Transp Safety & Mobility	Wes Lum	Joel Retanan	CTC		Completed	Completed	8/31/09	2/23/10	Satisfied with PI - possible 11/12 project
PI-0515-Str PI	Best Practices of Successful Strategic Plans	Strategic Planning	Peter Spaulding	Scott Williams	CTC		Completed	Completed	5/1/15	7/1/15	Satisfied with PI
PI-0416-Str PI	Implementing Strategic Plans: Policy Coordination and Consistency	Strategic Planning	Julie Dunning	Patrick Tyner							Pending new PI contract

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PI-1-CC	Identify Pedestrian Safety Improvement Programs and Establish a Data Think Tank	SHSP CA-8 Transp Safety & Mobility	Richard Haggstrom	Joel Retanan	CTC		Completed	7/30/09	2/17/10	DRI Research Project
PI-2-CC	RFP to Upgrade Roadway and Roadside Visual Image and Attribute Data Collection and Distribution	System Performance Management	Matt Friedman	Asfand Siddiqui	CTC		Completed	7/9/14	6/23/15	Lee Provost completed the internal survey. Based on the findings from the PI report the panel have applied for funding from the feds to replace the photolog system.
PI-3-CC	Identifying best practices for evaluation in design innovations	Cross-Cutting	Janice Benton Janice Benton, Ray Tritt, Sukhdeep Nagra, Prakash, Sah, Greg Larson Design Jim Deluca, Larry Moore, Kevin Herritt	Sukhdeep Nagra	CTC		Completed	3/26/15		
PI-4-CC	Caltrans Sustainability Goals- Methods to Quantify and Score Infrastructure Performance Measures	Cross-Cutting	Melissa Thompson	Lee Provost	CTC					
PI-0904-TS&M	Organizational Structure of Tolling Agencies	System Performance Management	Joe Rouse	Hassan Aboukhadijeh	In (House) PI completed by Roya Hassas		Completed	6/12/14	6/12/14	PI submitted as background material for NCHRP research project

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PI-0938-TS&M	Equal Severity Curve Update	Transportation Safety & Mobility	Alex Kennedy/ Thomas Schriber	Joel Retanan	CTC		Completed		7/1/09	Satisfied with PI - possible future project
PI-1011-TS&M	Left Turn Flashing Yellow Arrow	Transportation Safety & Mobility	Ted Lombardi	Jerry Kwong	CTC		Completed	11/19/10	2/23/11	Satisfied with PI-possible 11/12 project
PI-0922-TS&M	Bicycle Sign comprehension ("Bikes In Lane" Warning Sign)	Transportation Safety & Mobility	Dario Senior	Jerry Kwong	CTC		Completed	3/11/11	11/15/11	Satisfied with PI-possible research project
PI-0926-TS&M	Low Speed Temporary Sand Filled Crash Cushions	Transportation Safety & Mobility	Randy Hiatt	Vue Her	DRI		Completed	10/5/10	12/1/10	
PI-1005-TS&M	Queue Storage and Acceleration Lane Length Design at Metered Onramps	Transportation Safety & Mobility	Zhongren Wang/ Lester Lee	Jose D Perez	CTC		Completed	1/10/12	3/15/12	Satisfied with PI-research project
PI-1006-TS&M	Method for Identifying and Mitigating Highway Locations with High Risks under Wet Weather Conditions	Transportation Safety & Mobility	TBD	Haniel Chung			No longer needed			
PI-1007-TS&M	Implementation of Centrally Controlled Adaptive Ramp Metering System	Transportation Safety & Mobility	Zhongren Wang	Fred Yazdan			No longer needed			
PI-1008-TS&M	Enhanced Travel Times using historical and real-time data	Transportation Safety & Mobility	Diana Gomez	Fred Yazdan			No longer needed			
PI-0212-TS&M	Lane-by-lane Active Traffic Management	Transportation Safety & Mobility	Diana Gomez				No longer needed			

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PI-1009-TS&M	Traveler Information using Social Network Systems	Transportation Safety & Mobility	Alan Bensen/ Mike Jenkinson			No longer needed	No longer needed			
PI-0202-TS&M	Galvanizing Metal Rail Elements	Transportation Safety & Mobility	Randy Hiatt	Vu Her	CTC	Completed	Completed	6/4/12	11/7/12	CTC report identify related research NCHRP Project 20-17 panel thinks the report should answer the question about the lifecycle of the two kinds of guard rail.
PI-0931-TS&M	Field Operation Test on Dynamic 24-hours Traffic Responsive Ramp Metering Operations	Transportation Safety & Mobility	Zhongren Wang/ Lester Lee	Joel Retanan	CTC	Completed	Completed	5/17/13	6/10/13	We all agreed that a new research project is needed to do a before-and-after evaluation of a 24-hour traffic-responsive ramp metering.
PI-0613-TS&M	Nighttime Visibility and Headlight Glare	Transportation Safety & Mobility	Jerry Champa	Nate Loeb	CTC	Completed	Completed	2/27/13	11/5/13	The report provided information and knowledge of what is practiced by other State DOTs. No other investigative research is needed. Will recommend creating an "Internal Subcommittee Team" from Districts rep to lead the evaluation /update on the department existing lighting policy
PI-0613-TS&M	Proposal to relocate freeway exit gore signs	Transportation Safety & Mobility	Donald E. Howe	Randy Woolley/Triet Bui	CTC	Completed	Completed	7/29/13	11/14/13	14/15 Research project done through Maintenance PSC
PI-1213-TS&M	overhead sign structures without illumination	Transportation Safety & Mobility	Donald E. Howe	Randy Woolley/Triet Bui	CTC	Completed	Completed	11/14/13	10/1/14	Panel satisfied with findings
PI-0315-TS&M	Wrong-Way Driving Prevention Methods (Part 1)	Transportation Safety & Mobility	Thomas Schriber	Lai Saetern	In (House) PI completed by Lai Saetern	Completed	Completed			Panel satisfied with findings

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PI-1015-TS&M	Wrong-Way Driving Prevention Methods (Part 2)	Transportation Safety & Mobility	Jerry Champa, Mike Hagen, Deb Larson, Brian Hadley	Lai Saetern	CTC		Completed	Completed		CTC provided the final draft report 10/5/15. Waiting for feedback from panel members to finalize the report.	
PI-1015-TS&M	Green Infrastructure Strategies for Transportation Systems	Transportation Safety & Mobility	Melissa Thompson, Chris Rossmiller	Lee Provost	CTC		Completed	Completed	10/27/15	11/1/15	Satisfied with PI
PI-0212-TS&M	Use of the Midwest Guardrail System with 8-inch blocks and 6-inch high curb or dike	Transportation Safety & Mobility	Randy Hiatt	Christopher Caldwell	In(House) PI Christopher Caldwell		In-progress	In-progress			
PI-0413-TS&M	Green Stripe Adjacent To Edgeline	Transportation Safety & Mobility	Rachel Carpenter	Joel Retanan	CTC		Completed	Completed	4/25/16	9/2/16	Rachel will follow up with Broward County, Florida, about its green stripe pavement
PI-0415-TS&M	Proposal to develop warranty based pavement markings 1&2	Transportation Safety & Mobility	Atifa Ferouz	Nate Loeb	CTC		Completed	Completed	1/20/16	6/8/16	The panel is satisfied with the report. They have decided not to go forth with before/after study.
PI-1015-TS&M	Best Practices for Interagency Transportation Software Change Management	Transportation Safety & Mobility	Stan Slavin	Pete Gurprit	CTC		On-Hold	On-Hold	3/11/16		PI placed on hold per direction from TS&M PSC.
PI-0315-TS&M	Bicycle Corrals	Transportation Safety & Mobility	Chris Engelmann / Donald E. Howe, Sr.				1	In-queue			
PI-1010-TS&M	Radar Detector for Ramp Metering Demonstration	Transportation Safety & Mobility	Zhongren Wang/ Lester Lee				2	In-queue			
PI-0212-TS&M	Dynamic Speed Sign Effectiveness	Transportation Safety & Mobility	Roberta McLaughlin				3	In-queue			

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PI-0801-TS&M	Shadow Striping	Transportation Safety & Mobility	Haissam Yahya			4	In-queue			
PI-0415-TS&M	Interagency Change Mgmt of Collaborative Open Source Software Change Management	Transportation Safety & Mobility	Stan Slavin			5	In-queue			
PI-1015-TS&M	Developing of backup power systems for fields located ITS elements	Transportation Safety & Mobility	Martha Styer	Jerry Kwong	CTC	6	In-queue			
PI-1015-TS&M	Striping Performance Contract	Transportation Safety & Mobility	Devinder Singh, Atifa Ferouz	TBD		7				new
PI-1015-TS&M	Pictograph on Memorial Signs with Monument Alternatives	Transportation Safety & Mobility	Donald E. Howe	TBD		8				new
PI-1015-TS&M	Shallow Posts for MBGR	Transportation Safety & Mobility	Randy Hiatt	TBD		9				new
PI-1015-TS&M	End Treatment Inventory Simplification of Preapproved Products List	Transportation Safety & Mobility	Randy Hiatt	TBD		10				new
PI-1015-TS&M	Tapered Edge Paving	Transportation Safety & Mobility	Chris Engelman	TBD		11				new
PI-1015-TS&M	Use of the Midwest Guardrail System	Transportation Safety & Mobility	Chris Engelmann	TBD		12				new
PI-1015-TS&M	Warranty Based Pavement Markings with Retroreflectivity	Transportation Safety & Mobility	Devinder Singh, Atifa Ferouz			13				new

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PI-1015-TS&M	Efficient Strategies for Underground Utilities Safety	Transportation Safety & Mobility	Yin Ping LI			14				new
PI-0109-TS&M	Crash Reduction Factor Update	Transportation Safety & Mobility	Thomas Schriber		CTC	Pilot	Completed		1/31/09	Satisfied with PI