ROCK PRODUCTS COMMITTEE

WORK PLAN STATUS

July 5, 2016

"Plan the Work

Work the Plan"

Contents

Status Meeting Calendar
Asphalt Task Group Projects
Concrete Task Group Projects
Pavement Foundations Task Group Projects
Pavement Preservation Task Group Projects

“Caltrans, Industry and FHWA Working Together”

STATE OF CALIFORNIA
PAVEMENT PROGRAM STATUS CALENDAR

DEPARTMENT OF TRANSPORTATION

2016

ROCK PRODUCTS COMMITTEE MEETINGS CALENDAR

JAN

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEB

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28	29					

MAR

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APR

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MAY

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29	30	31				

JUN

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26	2 7	28	29	30		

JUL

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31						

AUG

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SEPT

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23	24	25	26	27	28	29
30	31					

NOV

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27	28	29	30			

DEC

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25	26	27	28	29	30	31

JAN 2017

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22	23	24	25	26	27	28
29	3 0					

Calendar Legend

- Quarterly Rock Products Committee (RPC) Meeting
- Monthly RPC Co-Chairs 3+2 Meetings
- Asphalt Task Group 3+2 Meetings
- Concrete Task Group 3+2 Meetings
- Pavement Foundations Task Group 3+2 Meetings
- Pavement Preservation Task Group 3+2 Meetings
- State Holidays
- Last Day to Input Information for Monthly Status Documents Update
- Monthly Status Documents Preparation and Posting

Pavement Program Project Management Monthly Report

Project **Intelligent Compaction** **Task Group** Asphalt **Subtask Group** Intelligent Compaction

Target Completion Date 1/30/2017 **Number** 18 **Status** Active **Progress** **69 %** **Rock Products Committee** YES

Purpose Develop specification for using intelligent compaction as quality control for hot mix asphalt method compaction.

Overall Progress Fourteen pilot projects have been completed and bid opening has occurred on 16 additional pilot projects. Sub Task meeting was held on June 9, 2016.

Activities Planned Continue to provide assistance and monitor on going pilot projects.

Project Lead Chuck Suszko **Office** Construction Engineering **Phone** (916) 798-6029 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP for Pilot Projects	HQ Constr	8/1/2013	1/10/2014	100	100	Completed.
# 2	IC Demonstration Project	HQ Constr	6/1/2013	9/6/2013	100	100	IC demonstration completed.
# 3	Pilot Projects (Target 6 projects)	HQ Constr	1/30/2014	4/1/2015	100	100	Three HMA pilot projects are completed.
# 4	Analyze results from pilot	HQ Constr	5/1/2014	6/1/2015	100	100	Completed.
# 5	2nd Round Pilot Projects (Target 10 projects)	HQ Constr	10/1/2014	6/1/2016	100	100	16 projects have had bid openings.
# 6	Analyze results from pilot	HQ Constr	3/1/2015	12/30/2016	40	75	Receiving data from ongoing projects.
# 7	Finalize SSP	HQ Constr	6/1/2016	1/30/2017	0	10	No work yet.
# 8	User Guidance for IC to be included in Construction Manual	HQ Constr	1/1/2015	1/30/2017	15	70	Draft IC Construction Guidance iscomplete.

Log 09/27/13 - Updated progress - CDS
10/30/13 - Updated progress - CDS
04/29/14 - Updated overall progress, planned activities and deliverables % complete - CDS
06/27/14 - Updated overall progress, planned activities and deliverables % complete - CDS
11/24/14 - Updated overall progress, planned activities and deliverables % complete - CDS
12/17/14 - Updated overall progress, planned activities and deliverables % complete. Added 2nd round of pilot projects as a deliverable - CDS
01/29/15 - Updated deliverables % complete.
03/3//15 - Updated deliverables % complete.
04/30/15 - Updated orerall progress, planned activities and deliverables % complete
06/29/15 - Updated overall progress and deliverables % complete.
11/23/15 - Updated deliveables % complete and moved completion target to 6/30/2016.
01/04/16 - Updated deliverables % complete.
02/01/16 - Updated deliverables % complete. Update target completion date to 1/30/2017.
02/29/16 - Updated deliverables % complete.
04/01/16 - Updated deliverables % complete.
05/31/16 - Updated deliverables % complete.
06/30/16 - Updated Deliverables % complete.

Project **Asphalt Rubber Binder Quality Control** **Task Group** Asphalt **Subtask Group** Asphalt Rubber Binder Quality Control

Target Completion Date 6/30/2016 **Number** 20 **Status** Active **Progress** **99 %** **Rock Products Committee** YES

Purpose Identify specification contractor quality control requirements for asphalt rubber binder.

Overall Progress Final meeting held on August 15, 2014. Section 37 and 39 ARQC final draft specification were completed. Section 39 ARQC was posted on October 17, 2014. Section 37 ARQC will be included in 2015 Standard Specifications.

Activities Planned Finalize report on Industry testing viscosity range for asphalt rubber binder based on reheating samples.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	RSS Section 39	Asphalt	8/5/2013	9/1/2014	100	100	Sub Task Group Meeting held June 6, 2014 and QC testing and lab heating of ARB were discussed.
# 2	RSS Section 37-2	Asphalt	8/5/2013	9/1/2014	100	100	Sub Task Group Meeting held June 6, 2014 and QC testing and lab heating of ARB were discussed.
# 3	Publish Revised Specification	Asphalt	6/1/2014	5/31/2015	100	100	Section 39 RSS posted on 10/17/14.
# 4	Waiting for Test Results from the Industry on revising reheating	Asphalt	6/2/2014	6/30/2016	95	100	Waiting for testing results from industry to see if there is a need to revise the viscosity range. Per Sri B. Industry indicated no change in viscosity range due to reheating.
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 09/27/13 - Updated progress - CDS
04/29/14 - Updated overall progress, planned activities and deliverables % complete - CDS
06/27/14 - Updated overall progress, planned activities and deliverables % complete - CDS
07/10/14 - Updated overall progress, planned activities and deliverables % complete - KYF
07/27/14 - Updated overall progress, planned activities and deliverables % complete - KYF
09/29/14 - Updated overall progress, planned activities and deliverables % complete- KYF
10/30/14 - Updated overall progress and deliverables % complete - CDS
11/14/14 - Updated deliverables and % complete - CDS
12/26/14 - Updated deliverables and % complete - SNB
01/29/15 - Updated target delivery date for Deliverable 3.
05/08/15 - Updated status - waiting for test results from industry/CT on viscosity range for reheating - SNB
05/27/15 - Updated status - continuing to wait for test results from industry/CT on viscosity range for reheating - SNB
08/21/15 - Updated status - continuing to wait for test results from industry/CT on viscosity range for reheating - SNB
01/04/16 - Updated status - continuing to wait for test results from industry/ct on viscosity range for reheating - SNB
04/01/16 - Updated item 5 target date for completion to 4/30/16 - CDS
04/27/16 - Updated status - Per Sri B. Industry indicated no change in viscosity range due to reheating. Project completed. FKY

Project **Performance Graded Asphalt Rubber Binder** **Task Group** Asphalt **Subtask Group** PGAR

Target Completion Date 12/1/2016 **Number** 21 **Status** Active **Progress** **44 %** **Rock Products Committee** YES

Purpose Develop a Performance Graded specification for asphalt rubber that contains crumb rubber particle size up to 2 mm (10 mesh) with consideration of climate zone and traffic levels and replace the current recipe-specification.

Overall Progress Industry received preliminary data from the second round robin tests. Industry is analyzing the data and will present the findings in a couple of months. Co-Chairs met to discuss the status of the second round robin tests.

Activities Planned No Sub Task Group meetings are scheduled until the data from the second round robin tests are analyzed.

Project Lead Haiping Zhou **Office** Asphalt Pavement **Phone** (916) 274-6022 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Phase 1: Work Plan Development Phase 1: Initial Round Robin	Industry	8/5/2013	11/30/2014	100	100	Draft work plan developed and discussed at the 4/4/14 sub task group meeting. Need co-chairs to review and sign.
# 2	Experimental Design	Asphalt	1/15/2014	3/30/2015	100	100	Completed.
# 3	Draft PG-AR spec/Pilot projects (report only)	Industry	11/7/2013	9/30/2016	75	90	Draft NSSP reviewed by the Sub Task Group.
# 4	Phase 2: Testing protocols and instructions for conducting 2nd round robin test	Industry	11/7/2013	3/15/2015	100	100	Samples sent out for testing.
# 5	Phase 2: 2nd round robin testing and evaluation of results	Industry	12/1/2014	8/29/2016	80	90	Started analysis.
# 6	PG-AR Workshop	Asphalt	3/1/2016	8/31/2016	0	65	No progress to date.
# 7	PG-AR Specification	Asphalt	3/1/2016	12/1/2016	0	45	No progress to date.
# 8	Certificate of Compliance Program for PGAR Suppliers	Asphalt	3/1/2016	12/1/2016	0	45	No progress to date.

Log 09/04/13 - First subtask group meeting at Granite, Sac. Reviewed scoping and initial test results by Sallie Houston. Industry to draft a work plan for 11/6/13 meeting - HZ
11/06/13 - STG meeting at Granite, Sac. Draft work plan reviewed and to be finalized - HZ
01/15/14 - Draft final work plan is being reviewed - HZ
01/30/14 - Added status notes in #4 - HZ
02/27/14 - STG meeting. Round robin test delayed due to sample preparation and shipment - HZ
04/29/14 - Updated overall progress, planned activities and deliverables % complete - CDS
05/09/14 - STG meeting. Round robin test delayed due to sample preparation and shipment. NSSPs for testing ARB using pilot projects developed. A small group was formed to develop an experimental design for PG-AR - HZ
06/06/14 - STG meeting. Samples for 2nd RR still yet to be shipped out and tested. Draft reheating language developed. Need to identify pilot projects - HZ
06/27/30 - Added deliverables - HZ
07/11/14 - Changed the completion date and percent complete on deliverables #2 and #4 - SNB
07/11/14 - STG meeting. Draft experimental design developed and presented. Draft reheating language developed and to be included in LP-13. Need to identify pilot projects - HZ
08/15/14 - STG meeting. Draft final experimental design sent to group for review. Draft reheating language developed and to be included in a CTM. Need to identify pilot projects - HZ
10/30/14 - Updated activities planned and revised target dates for deliverables #1 and #4 - SNB
12/26/14 - Updated status - SNB
02/25/15 - Updated Activities planned - CS
03/30/15 - Updates deliverables % complete.
05/08/15 - Updated status - no change in status - SNB
05/13/15 - Updated activities, no change in status - HZ
05/27/15 - Status update - Some progress made on the 2nd RR testing. Changed some project deliverables target dates - SNB
08/05/15 - Updated activities. Co-chairs met on 8/4 to review 2nd round robin test data and project task status - HZ
01/04/16 - Updated status - 2nd round robin test data is being analyzed by industry - SNB
01/27/16 - Updated status and completion dates for #5, #6, #7, and #8 - HZ

02/01/16 - Updated target completion date to 12/1/2017 - CDS

Project **Section 39 Hot Mix Asphalt Specification** **Task Group** Asphalt **Subtask Group** Section 39

Target Completion Date 6/30/2016 **Number** 23 **Status** Active **Progress** **92 %** **Rock Products Committee** YES

Purpose Address issues arising from the transition from the Hveem method of HMA design to the Superpave method of HMA mix design and converting from CTMs to National Standard test methods such as AASHTO and ASTM.

Overall Progress Resolving issues as they are being brought up by industry.

Activities Planned Address issues arising from the transition from the Hveem method of HMA design to the Superpave method of HMA mix design and converting from CTMs to National Standard test methods such as AASHTO and ASTM.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6194 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Update Section 39 Specification (Phase 1)	Asphalt	8/5/2014	10/30/2014	100	100	Section 39 RSS Posted 10/17/14.
# 2	Update Section 39 Specification (Phase 2)	Asphalt	8/5/2014	6/30/2016	90	100	Sub Task Group meeting to resolve Issues
# 3					0	0	
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 10/30/14 - Established project deliverables and updated % complete - CDS
11/24/14 - Updated % complete for deliverables - CDS
12/26/14 - STG continues to meet to resolve issues from the published specifications - SNB
05/08/15 - STG continues to meet to resolve minor issues from the published specifications - SNB
05/27/15 - STG continues to meet to resolve minor issues from the published specifications - SNB
08/21/15 - STG continues to meet to resolve issues from the published specifications - SNB
10/13/15 - STG continues to meet to resolve issues from the published specifications - KYF
01/04/16 - Status updated - STG continues to meet to resolve issues from the published specifications - SNB
04/27/16 - STG continues to meet to resolve issues from the published specifications - KYF

Project **Hot Mix Asphalt Low Volume (HMA-LV)** **Task Group** Asphalt **Subtask Group** Section 39

Target Completion Date 6/30/2016 **Number** 24 **Status** Active **Progress** **30 %** **Rock Products Committee** YES

Purpose Address the issue of HMA Type B which was eliminated from the Standard Specifications with the implementation of Superpave.

Overall Progress Customized Section 39 for 3 scenarios expected by Local Agencies using Section 39. Local Agencies/Industry taking the lead with Caltrans providing support. This Subtask Group has been suspended until further notice from RPC.

Activities Planned Revised scoping document under consideration of the RPC Co-chairs. No Sub Task Group meetings are scheduled.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop Specifications	Asphalt	8/5/2014	6/30/2016	30	100	Sub Task Group continues to meet preriodically. The scope of the project has creeped to include higher volume local streets. A new Project Scoping Document was submitted by the Industry. The RPC Committee Chairs have to review the scoping document.
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 10/30/14 - Updated % complete - CDS
12/26/14 - Updated status and % complete - SNB
02/03/15 - Updated status and % complete - CDS
02/25/15 - Updated activities planned and % complete - CDS
05/08/15 - Updated status - STG continues to meet to develop specs. Scope of the project has increased to include all volumes not just low volume roads - SNB
05/27/15 - Updated status - STG continues to meet to develop specs. Scope of the project has increased to include all volumes not just low volume roads. A new scoping document is being drafted to expand the scope of the project - SNB
08/21/15 - Updated status - Scope of the project has increased to include all volumes not just low volume roads for local agencies. A new scoping document was drafted to expand the scope of the project but the document was not signed. Waiting for directions from RPC Co-chairs on how to proceed - SNB
10/13/15 - Suspended until further notice from RPC - KYF
01/04/16 - Updated status - Changed the end date of the project, while this project remains in suspension until RPC Co-Chairs decide on if and how to proceed further.
04/27/16 - Updated status - Waiting for "Industry Prespective" to complete dispute package for ATG - FKY

Project **Asphalt Binder Crumb Rubber Verification** **Task Group** Asphalt **Subtask Group**

Target Completion Date 7/30/2016 **Number** 25 **Status** Active **Progress** **98 %** **Rock Products Committee** YES

Purpose Accurate verification of crumb rubber content in asphalt binders will support Caltrans in its accounting and reporting requirements associated with the use of crumb rubber in pavements.

Overall Progress Final documents for approved Suppliers program. Weights and measures criteria included as errata on March 15, 2015 in the MPQP. Implementation of new requirements will be effective July 1, 2016.

Activities Planned Caltrans to issue CPB on new specification requirements for crumb rubber usage.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Test method for CRM verification or CRM verification	Asphalt	7/30/2014	12/30/2014	100	100	There are no test methods readily available for determining CRM content of asphalt binders.
# 2	Specifications Revision package to OE	Asphalt	7/30/2014	6/30/2016	100	100	Specification language published in April RSS to the 2015 Specs.
# 3	Qualified Products List for CRM Suppliers	Asphalt	9/22/2014	3/1/2016	100	100	Posted requirements on List of Authorized Materials webpage.
# 4	MPQP Requirements for CRM Verification	HQ Constr	9/22/2014	4/30/2016	100	100	MPQP errata posted on March 15, 2015.
# 5	Construction Policy Bulletin (CPB)	HQ Constr	4/1/2016	7/30/2016	50	75	Cirulating CPB for signature.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 07/28/14 - Set up database - KYF
10/30/14 - Updated overall progress, planned activities, deliverables and % complete - KYF
12/26/14 - Updated status and % complete - SNB
02/03/15 - Updated planned activities and deliverables % complete.
03/30/15 - Updated planned activities and deliverable % complete.
04/30/15 - Updated deliveables % complete - CDS
05/08/15 - Updated status - SNB
05/27/15 - Updated status - SNB
08/21/15 - Updated status. Industry continues to work on preparing for verification - SNB
10-13-15 - CRM reporting form and CRM qualified product list are up on Caltrans internet - KYF
01/04/15 - Update MPQP deliverable as completed.
04/01/16 - Updated deliverable item 3 % complete. - CDS
04/27/16 - Specification language published in April RSS to the 2015 Specs. Project Completed - FKY
06/30/16 - Updated deliverables % complete. - CDS

Project **Section 39 QC/QA Specifications** **Task Group** Asphalt **Subtask Group** Section 39

Target Completion Date 3/31/2017 **Number** 26 **Status** Active **Progress** **24 %** **Rock Products Committee** YES

Purpose Caltrans and Industry want to continue the use QC/QA specifications with the Section 39 specifications.

Overall Progress Sub Task Group meetings continue to be held to discuss QC/QA specifications to evaluate the quality characteristics.

Activities Planned Develop QC/QA specifications for the new Section 39 (Superpave) specifications. Next Sub Task Group meeting to be held on on December 3, 2015.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Create a Sub Task Group	Asphalt	10/15/2014	1/30/2015	100	100	Completed.
# 2	Identify various quality characteristics for QC/QA pay factors	Asphalt	2/2/2015	7/30/2016	95	95	Sub task groupis meeting monthly.
# 3	Determine QC/QA pay factors for various identified quality characteristics	Asphalt	6/1/2015	7/29/2016	45	95	Sub task group is meeting monthly.
# 4	Develop automated calculation sheets for determining QC/QA pay factors	Asphalt	11/2/2015	12/30/2016	0	55	Decided to revise HMAPay to accommodate Superpave. FHWA recommends equations instead of tables.
# 5	Develop QC/QA specifications for Section 39	Asphalt	7/2/2016	10/31/2016	0	0	
# 6	Obtain Approval from FHWA to implement QC/QA specifications	Asphalt	9/1/2016	10/31/2016	0	0	
# 7	Update RSS for Section 39 with QC/QA specifications	OE	11/1/2016	1/31/2017	0	0	
# 8	Develop training program for Caltrans and industry personnel on QC/QA specifications	HQ Constr	2/1/2017	3/31/2017	0	0	

Log 12/26/14 - Developed resources, deliverables and schedule for the project - SNB
02/25/15 - Updated activities planned and deliverables % complete. - CS
05/08/15 - Updated status and dates - SNB
05/27/15 - Updated status - SNB
06/30/15 - STG meet on 6/18/15
08/21/15 - STG continues to meet. Next meeting on 08/26/15 - SNB
10/13/15 - Consulted with FHWA for recommendation and continues to meet - KYF
01/27/16 - Update deliverable dates, continue to meet, discuss implementation of FHWA recommendations - kyf
04/27/16 - STG continues to meet. Next meeting on 05/05/16 - FKY

Project **Use of Automatic Vacuum Sealing Method to Determine Density of HMA Pavement Core Specimens** **Task Group** Asphalt **Subtask Group** Specifications

Target Completion Date 9/30/2016 **Number** 27 **Status** Active **Progress** 74 % **Rock Products Committee** YES

Purpose Caltrans uses CT 308 Method A, more commonly known as the "Weigh, Wax, Weigh" method to determine the density of hot mix asphalt (HMA) pavement cores.

Overall Progress Work on Task 1 through 5 are complete. Current progress is focused on Tasks 6 through 8. Waiting on comments regarding the proposed specification changes.

Activities Planned Review and reconcile comments (if any), and the incorporate changes (if needed) into final specification changes. Evaluate an effective implementation method (e.g., pilot projects).

Project Lead Tim Greutert **Office** Roadway Materials Testing **Phone** (916) 227-7303 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Review AASHTO test procedure	Asphalt	9/9/2015	9/30/2015	100	100	Task completed.
# 2	Review UCPRC report	Asphalt	9/9/2015	10/9/2015	100	100	Task completed.
# 3	Discuss objectives and details of application to Section 39 (how is test method specified/what are the impacts?)	Asphalt	10/5/2015	12/3/2015	100	100	Reviewied test methods, reporting forms, specification impacts, and lab procedures for QC/QA correlation requirements. Task completed.
# 4	Draft specification modifications, forms, or Lab Procedure as appropriate. Have 12/03/15 meeting to review/approve.	Asphalt	10/19/2015	1/12/2016	100	100	Reviewing proposed changes to new 2015 Standard Specifications, Section 39. Assessing impacts to quality control testing. Discussiions completed in Subtask group meeting on 01/12/16 and finalized draft specification changes. Task complete.
# 5	Route draft to RPC, DMEs, etc. through Section 39 STG.	Asphalt	1/15/2016	4/8/2016	100	100	T. Limas to route specification changes to Section 39 STG. Comments to be collected 04/08/16. Routing of draft specification changes completed 03/18/16. Task Complete.
# 6	Evaluate/Reconcile each	Asphalt	3/16/2016	8/15/2016	75	70	No comments received to date.
# 7	Evaluate how best to successfully implement (pilot?). Determine method to assess effective implementation.	Asphalt	4/11/2016	7/30/2016	15	75	Actual task start is pending. Previous meetings discussed: (1) specification changes require correlation to weigh, wax, weigh method, and (2) pilot projects could help evaluate possible issues.
# 8	Implement into RSS. Due Date: Ready for 1st Revised Stand Spec issue date for 2015 Standard Specifications.	Asphalt	3/30/2016	9/30/2016	25	50	(RSS proposed changes submitted for comments. Final RSS changes pending.)

Log 08/21/15 - Project Scoping Document has been signed but due to work load the work on this project has not started - SNB
09/30/15 - Task group co-chairs have been determined. Kickoff meeting planned for 10/08/15.
10/08/15 - Kickoff meeting held. Developed list of tasks associated with the evaluation of the vacuum sealing test method.
Steps 1 through 3 remain the same.
Changed/added the following:
Step 4 Draft specification modifications/forms/Lab Procedure as appropriate. Have 11/05/15 meeting to review/approve drafts.
Step 5 Route draft to RPC, DMEs, etc. through Section 39 STG.
Step 6 Evaluate/Reconcile each comment.
Step 7 Evaluate how best to successfully implement (pilot?). Determine method to assess effective implementation for Step 9.
Step 8 Implement into RSS. Due Date: Ready for 1st RSS issue for the 2015 Standard Specifications.
Step 9 Compile data and assess effective implementation.
11/09/15 - Held task group meeting. Reviewed most recent version of Section 39, with edits by T. Limas included for adding AASHTO T331. Discussed impacts to construction QC testing, and noted potential requirement to specify correlation procedure similar to CT 375. Discussed need to add language to either specification, test method, or lab procedure regarding the correlation methodology. Next task group meeting set for 12/03/115.
Meeting rescheduled for 12/08/15.
Met 12/08/15 - New issues on specification language and placement arose. Set next meeting for 01/12/16.
Met 01/12/16 - Finalized specification language and placement in the 2015 Standard Specifications. T. Limas to circulate draft language to Section 39 STG. Comments to be reviewd at next subtask group meeting. Meeting scheduled for

02/16/16.
02/12/16 - The sub-task group meeting planned for 02/16/16 was cancelled. A new meeting date has not been set yet. The sub-task group is waiting on comments on the proposed specification changes.
03/18/16 - Draft Section 39 specification changes sent to Caltrans Pavement Program and Construction Engineering.
03/30/16 - No comments received to date regarding the draft Section 39 specifications changes to allow the vacuum sealing alternative.
06/30/16 - Updated deliverables % complete. – CDS

Project **Reclaimed Asphalt Pavement in Rubberized Hot Mix Asphalt** **Task Group** Asphalt **Subtask Group** Specifications

Target Completion Date 1/31/2018 **Number** 28 **Status** Active **Progress** 6 % **Rock Products Committee** YES

Purpose Increase the use of RAP by Caltrans to support sustainable pavements.

Overall Progress Sub Task Group meeting held on June 23, 2016.

Activities Planned Next Sub Task Group meeting is scheduled for August 4, 2016 where UCPRC will discuss finding on recent research.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Develop a NSSP for using RAP based on current specification for using RAP in HMA.	Asphalt	7/1/2015	9/29/2016	40	80	Sub Task Meeting held 6/23/2016.
# 2	Perform mix design and laboratory testing on RHMA with 5 percent and 10 percent RAP and test for compliance with quality characteristics for RHMA.	Road Mat	6/1/2016	12/30/2016	0	15	No work yet.
# 3	Use the NSSP on pilot projects and verify that RHMA quality characteristics can be met with 5 percent and 10 percent RAP.	Asphalt	9/1/2016	9/29/2017	0	0	
# 4	Finalize specification for using RAP in RHMA.	Asphalt	9/1/2017	1/31/2018	0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 08/21/15 - Co-Chairs for the sub-task group will have to be selected - SNB
01-27-16 - Will set up kickoff meeting with Industry Co-Chairs and finalized deliverables and dates - kyf
04-27-16 - Kickoff meeting held on 04/26/16, next meeting 05/24/16 thru phone conference. - FKY
04-29-16 - Updated target delivables dates. - CDS
06-30-30 - Updated overall progress, activities planned and deliverables % complete. - CDS

Project **Temporary Transverse Joint Tapers** **Task Group** Asphalt **Subtask Group** Specifications

Target Completion Date 8/30/2016 **Number** 29 **Status** Active **Progress** **83 %** **Rock Products Committee** YES

Purpose Ensure temporary tapers are constructed and maintained in a consistent manner across the State and that temporary tapers not create an unreasonable level of discomfort to the travelling public or damage to goods being transported.

Overall Progress Responded to comments from circulation of draft specification. Mandatory concurrence received from stakeholders.

Activities Planned Specification targeted to be posted on July 15, 2016. Prepare Construction Procedure Direction (CPD) for implementation.

Project Lead Ken Darby **Office** Construction Engineering **Phone** 227-5705 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Form Sub Task Group	HQ Constr	8/17/2015	12/30/2015	100	100	Sub Task Group Co Chairs selescted.
# 2	Draft Specification	HQ Constr	1/15/2016	4/30/2016	100	100	Draft specification circulated for comments.
# 3	Final Specification	HQ Constr	3/30/2016	7/21/2016	95	80	Specification completed.
# 4	Construction Procedure Directive	HQ Constr	5/15/2016	8/30/2016	0	45	No work yet.
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 01/04/16 - Updated deliverable - CDS
02/01/16 - Updated Deliverables - CDS
02/29/16 - Updated planned activities and deliverables % complete.
04/01/16 - Updated Planned activities and deliverables % complete. - CDS
04/29/16 - Updated delivables percent complete. - CDS
05/31/16 - Updated planned activities and deliverables % complete. - CDS
06/30/16 - Updated deliverables % complete. - CDS

Project **Increasing Crumb Rubber Usage by Using a Small Amount of CRM in Hot Mix Asphalt (Phase 1)** **Task Group** Asphalt **Subtask Group** Binder

Target Completion Date 12/30/2016 **Number** 30 **Status** Active **Progress** 3 % **Rock Products Committee** YES

Purpose Increase the use of scrap tires so that the disposal of scrap tires in California landfills is eliminated and scrap tires are seen as a renewable resource rather than a waste product.

Overall Progress Sub Task Group kick-off meeting held on 3/10/16. Working groups formed for each of the alternative methods of adding CRM. Project Work Plan for the STG has been developed and submitted to ATG co-chairs for review and approval.

Activities Planned Working groups to complete workplan and research needs for each of the aletrnative methods.

Project Lead Haiping Zhou **Office** Pavement Program **Phone** **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Draft specification and associated test protocols.	Asphalt	2/1/2016	9/30/2016	10	60	Sub task group meeting held on 3/10/16.
# 2	Laboratory testing of asphalt binders for compliance with draft specification.	Asphalt	5/1/2016	12/30/2016	0	25	Work to be done by UCPRC.
# 3	Laboratory testing of hot mix asphalt for compliance with hot mix asphalt quality characteristics based on the type of HMA.	Asphalt	7/1/2016	12/30/2016	0	0	Work to be done by UCPRC.
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 01/27/16 - Entered dates for the deliverables based on the scoping document - HZ
04/01/16 - Updated activities planned and deliverables % complete. - CDS
04/05/16 - Draft RPC Project Work Plan completed - HZ
05/27/16 - Status update - HZ

Project **Revise Spec for Using Reclaimed Asphalt Pavement/Recycled Asphalt Shingles in Hot Mix Asphalt** **Task Group** Asphalt **Subtask Group** Binder

Target Completion Date 12/30/2016 **Number** 31 **Status** Active **Progress** 0 % **Rock Products Committee** YES

Purpose To prevent premature failure of pavement constructed with HMA containing more than 15 percent reclaimed asphalt pavement and to support sustainability and stewardship by moving forward with allowing the use of higher percentages of RAP and/or RAS.

Overall Progress Construction Policy Directive and Non-Standard Special Provision being processed to address immediate concerns.

Activities Planned Schedule first Sub Task Group meeting.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Revise standard specification for using 15-25 percent reclaimed	Asphalt	1/28/2016	7/29/2016	0	85	No work yet.
# 2	Revise NSSP developed for high asphalt binder replacement with RAP and/or RAS to address premature cracking.	Asphalt	1/28/2016	10/31/2016	0	55	No work yet.
# 3	Revise construction forms for hot mix asphalt to allow for high asphalt binder replacement with	HQ Constr	8/1/2016	11/30/2016	0	25	
# 4	Guidance for implementing high asphalt binder replacement on-going projects.	HQ Constr	8/1/2016	12/30/2016	0	15	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 2-1-16 Project initiated
04/27/16 - Kickoff meeting will be scheduled after CPD on High RAP is completed.- FKY
04/29/2016 - Added target deliverable dates. - CDS

Project **Pavement Smoothness** **Task Group** Asphalt **Subtask Group** Smoothness

Target Completion Date 1/30/2017 **Number** 32 **Status** Active **Progress** 9 % **Rock Products Committee** YES

Purpose Through training and increased knowledge a better understanding of the inertial profiler, IRI, and appropriate specifications requirements will lead to better paving practices and make more efficient pavement smoothness corrections.

Overall Progress Sub Task Group meeting held on May 27, 2016. Pavement smoothness data collection and other state practices were discussed.

Activities Planned Next Sub Task Group meeting is scheduled for July 6, 2016. Continue data collection and analysis. Complete summary of other states pavement smoothness practices.

Project Lead Ken Darby **Office** Construction Engineering **Phone** 916-227-5705 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Construction Procedure Directive	HQ Constr	2/19/2016	2/25/2016	100	100	Construction Policy Directive issued on 2/25/2016.
# 2	Paving Best Practices Training	Industry	4/19/2016	7/29/2016	10	40	Working group formed.
# 3	ProVAL Training	Industry	4/19/2016	7/29/2016	5	40	Working group formed.
# 4	Pavement Smoothness Corrections Training	Asphalt	4/19/2016	8/30/2016	2	30	Working group formed.
# 5	Pavement Smoothness Data Collection	HQ Constr	2/19/2016	8/30/2016	10	55	Collecting data from on going projects.
# 6	Analyze Pavement Smoothness Data	HQ Constr	6/18/2016	9/30/2016	0	0	No work yet.
# 7	Revise Specifications, if necessary	Asphalt	8/16/2016	1/30/2017	0	0	
# 8	Design Guidance/Construction Policy Bulletin	HQ Constr	6/1/2016	10/29/2016	0	0	No work yet.

Log Project Initiated

04/01/16 - Updated planned activities and deliverables % complete. - CDS
04/29/16 - Updated deliverables percent complete.
05/31/16 - Updated planned activities and deliverables percent complete. - CDS

Project **QC/QA Spec for Cast-in-Place Concrete** **Task Group** Concrete **Subtask Group** Concrete Materials/QA

Target Completion Date 6/30/2015 **Number** 5 **Status** Active **Progress** **95 %** **Rock Products Committee** YES

Purpose Implement QA specifications for materials management of structural concrete.

Overall Progress The Sub Task Group has completed their work on this project and submitted the final specification.

Activities Planned Implementation is being discussed by the Division of Engineering Services. On hold for FHWA intrepretation of the Code of Federal Regulations for QC/QA.

Project Lead Keith Hoffman **Office** METS **Phone** (916) 227-7016 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Establish teams and review existing practices (FHWA,	OSC	12/1/2010	5/31/2011	100	100	Teams are established.
# 2	Develop outline for QC/QA/IQA/IA program	Materials	3/1/2011	11/1/2011	100	100	QC program is complete. QA program is being finalized.
# 3	Draft QC reference specification and selection of pilot projects	Materials	7/1/2011	1/31/2012	100	100	Specification Finalized
# 4	Review of draft QC specification and create draft QA specifications	Materials	1/16/2012	3/31/2012	100	100	Specification has been finalized and will be incorporated into Pilot Projects
# 5	ACI Training and IA updates	Materials	1/1/2012	6/30/2014	100	100	ACI is complete. IA Manual Updates complete.
# 6	Workshops and roll out 10+ pilot projects (structural concrete/non-pavement) and additional 10 pavement projects to be added later on	Materials	4/2/2012	12/30/2014	100	100	D11 Project identified.
# 7	Feedback and update other pilot concrete projects	Materials	12/31/2012	12/30/2014	100	100	To be completed as pilot projects take place and lessons learned are captured
# 8	Establish full implementation on all projects	Materials	3/1/2013	6/30/2015	0	145	Will be complete once pilot projects take place and the Section 11-4 is included in all new projects

Log 1/07/15

CDS- Updated planned activities and deliverables percent complete.

9/1/13

Additional outreach with other pilot projects and Industry to take place. Coordination to continue for scheduling of ACI trainings and Pre-Bid Outreach meetings for Pilot Projects both in Northern CA and Southern CA. First ACI training likely in Sacramento near early October 2013. Continue conducting pre-bid meetings. Use gathered feedback from beta testing of DIME to update and roll out for larger use. Finalize the plain language spec and create a spec back up report as draft specification is finalized. Finalize QA Guidance report to generate corresponding bulletins for state staff. Amendment to IA manual upcoming, develop long term IA processes. Discuss project lists. Discuss communications with Districts and Contractors (Outreach).

11/29/12

Continued forward movement. D11 Pilot Project Pre-Bid meeting took place on 15 Nov 12. Additional outreach with other pilot projects and Industry to take place. Full listing of all Pilot Projects to be tracked and updated as needed. QA Guidelines continues to be refined. METS is working with OSC currently on this assignment. ACI Training for all staff to continue into 2013.

10/16/12

Forward movement continues. Final Spec Update complete. ACI Training continues - sessions scheduled for Hayward and LA in Oct-Nov 2012. ACI Outreach conducted on 9 Oct 12. Pre-Bid presentation for D11 project set for 15 Nov. Outreach for DMEs scheduled for 7-8 Nov at DME Meeting. QA Guidance to be finalized in coming weeks. DIME database set-up and validation to continue in the coming weeks with OSC and external labs.

9/19/12

Much forward movement. Final Spec Update complete. ACI Training sign-up continues - sessions scheduled for Hayward and LA in Oct-Nov 2012. Movement continues on Industry Agency and Pre-Bid presentations. QA Guidance to

DOTs) be finalized in coming weeks.

8/9/12
Much forward movement on the Specification, and all related activities. QCQA Spec finalized as of 6 Aug. QA Guidance Doc under development; to be finalized in coming days. ACI Training for CT Staff continues; training dates set for fall 2012 and spring 2013. D11 Pilot Project confirmed; outreach taking place ICW project in September 2012. DIME database almost complete; weekly project meetings taking place to finalize the DIME database.

7/17/12
Work continues on this activity. QCQA Spec is tentatively final pending minor comments. Work will continue throughout June-July 2012 to develop the Pilot Projects, ACI Training, and the DIME Database for external tests. Outreach for all parties continues.

7/3/12
The plain language specification is being reviewed. Pilot projects are being identified. Outreach is on-going. ACI certifications are on-going. ACI certificate contract is executed (100% Complete). IA memo is being drafted.

4/24/12
STG has resumed work based on a new consensus reached on the QA Portion of the Spec. Updated draft Specification has been developed and has been distributed through RPC channels. Project team meetings to continue. Outreach/Pilot Projects to take place in near future. QC outline report final. QC portion of Spec also finalized as of 13Jan2012. METS working on ACI training for staff.

2/23/12
The STG has suspended work based the project team's inability to reach consensus on the QA Portion of the spec. Non-Consensus document to be developed to document impasse. Refinement of project team member roles TBD. QC portion of Spec also finalized as of 13Jan2012. METS working on ACI training for staff.

1/23/12
Final QCQA Spec received on 13Jan2012. This QCQA Spec will allow movement forward on Pilot Projects. QA portion to be refined with SP&I in the coming months.

Project **Recycled Concrete Materials Specification Development** **Task Group** Concrete **Subtask Group** Concrete Materials/QA

Target Completion Date 7/31/2016 **Number** 22 **Status** Active **Progress** **99 %** **Rock Products Committee** YES

Purpose This activity aims to evaluate the possibilities of using recycled concrete (both hardened and plastic) for CT projects in minor concrete or LCB.

Overall Progress Specification has been implemented as a Non-Standard Special Provision (NSSP) which is being included in advertised projects.

Activities Planned Circulation of specification to mandatory stakeholders for concurrance. Specification to be posted as a revised standard specification and standard special provisions in July 2016.

Project Lead Cragg Knapp **Office** S.P. & I. **Phone** 916-227-8554 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Develop Scoping Document and Work Plan	Materials	10/13/2011	3/1/2012	100	100	Scoping Document is in development by Industry
# 2	Evaluate performance-based specification options, as well as test method that allow for appropriate consideration	Materials	3/1/2012	4/1/2012	100	100	Has been completed in conjunction with Scoping Document development
# 3	Develop plan for how CT will evaluate ways to foster use of materials as appropriate	Materials	4/2/2012	8/1/2012	100	100	Complete based on Preliminary Investigation and Industry feedback
# 4	Develop a draft specification if needed based on comments from Preliminary Investigation	Materials	8/1/2012	3/30/2013	100	100	Preliminary Investigation Report received. Standing by for comment from Industry
# 5	Submit any proposed Spec updates to Industry and to CT for feedback, and refine	Materials	2/28/2013	11/30/2014	100	100	Will be completed based on discussions with Industry at monthly project team meetings.
# 6	Finalize specification based on comments where appropriate	Materials	4/30/2013	7/31/2016	95	100	Target SSP posting date July 2016.
# 7					0	0	
# 8					0	0	

Log

05/31/2016
Updated target completion date to July 2016. - CDS

09/30/15
Updated target completion date to January 2016.

01/06/15
CDS Updated activities planned and deliverables % complete.

9/1/13
Monthly project team meetings to continue. Next scheduled meeting is on September 13, 2013. Industry to send requested information on MPQP manual. The carbon footprint savings report was received by project team on June 21, 2013 and sent to Caltrans environmental planning for review. A field trip is scheduled on September 11, 2013 to observe manufacturing of recycle concrete operations. Draft Specs to be complete in coming weeks.

11/29/12
Monthly project team meetings to continue. 12 Dec 12 is the next scheduled meeting. Industry to send requested information from Nov meeting, as well as best practices, by 14 Dec. Supplementary report and Draft Specs to be complete in coming weeks.

10/16/12
Preliminary Investigation final report received on 7 Sept 2012. Has been distributed to the STG. Meetings to take place in Oct-Nov 2012 based on Industry's request as necessary. Industry to provide feedback and path forward for Phase II and Gap Analysis based on final Prelim Report.

9/19/12
Preliminary Investigation final report received on 7 Sept 2012. Has been distributed to the STG. Meetings to take place in Oct 2012 based on Industry's request as necessary. Industry to provide feedback and path forward based on final

Project **Update Precast Stress Jack Requirements in Specifications** **Task Group** Concrete **Subtask Group** Precast Concrete

Target Completion Date 7/29/2016 **Number** 27 **Status** Active **Progress** **98 %** **Rock Products Committee** YES

Purpose Address issues with equipment and calibration used in Precast Concrete manufacturing plants.

Overall Progress The Sub Task group has completed their work on this project and submitted the final specification to the Task Group.

Activities Planned Resolve comments from mandatory stakeholders to receive concurrence. Target posting date of the Standard Special Provision is July 2016.

Project Lead Paul Lukkarila **Office** METS **Phone** (916) 227-7253 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Specification	Str Mat	8/5/2014	7/29/2016	98	95	Resolving comments from mandatory stakeholders.
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 09/30/15- CDS Updated target completion date.
11/3/14 - CDS Updated overall progress, planned activities and deliverables % complete.
1/6/15 - CDS Updated planned activities and % complete.
4/29/16 - CDS Updated planned activities and target completion date.
06/30/16 - CDS Updated deliverables % complete.

Project **Quality Assurance of Dowel Bar Placement** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 12/31/2018 **Number** 29 **Status** Active **Progress** 66 % **Rock Products Committee** YES

Purpose Propose improvements to both quality control and acceptance/verification methods for determining bar placement based on current industry and national practices, while ensuring design assumptions and pavement performance.

Overall Progress Draft final report is complete. Found pilot project EA 07-25262, which RTL July 2016.

Activities Planned Monitor pilot projects and evaluate the contractor performance and the administration performance of the specification. Find additional pilot projects.

Project Lead Amy Fong **Office** Concrete Pavement **Phone** 916-227-5838 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Evaluate and document the availability of various means by which dowel bar placement is being determined through a literature search of other state DOTs and national standards.	Conc Pvmt	8/18/2014	11/30/2014	100	100	Literature search is complete.
# 2	Report on placement evaluation alternatives including the pros and cons of each alternative. Recommend method	Conc Pvmt	10/15/2014	11/30/2014	100	100	NCHRP Report 637 performs an adequate report on evaluation alternatives and sound recommendation.
# 3	Develop placement evaluation method for quality control processes and verification processes for Department to ensure bars are properly placed.	Conc Pvmt	11/15/2014	12/30/2014	100	100	Complete
# 4	Ensure quality control processes meet Department guidelines and federal regulations.	HQ Constr	12/15/2014	5/27/2015	100	100	Complete
# 5	Draft specifications with revised quality assurance methods including Contractor quality control testing.	Conc Pvmt	12/15/2014	6/27/2015	100	100	Complete
# 6	Evaluate draft specifications on at least three existing projects. Draft Report.	Conc Pvmt	1/15/2015	12/31/2016	100	100	Complete
# 7	Evaluate additional pilot projects	Conc Pvmt	4/15/2015	10/1/2018	1	35	One additional project was found for 16/17
# 8	Prepare/update specification, test methods guidance documents.	HQ Constr	4/15/2015	12/31/2018	0	35	To be updated after evaluation of pilot projects.

Log 02-11-16 Updated Project Deliverables. AF
10-15-14:
Literature search is complete.
8-12-14:
Scoping document approved 8/5/2014

Project **Unique Concrete Mix Design Naming System** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 9/30/2016 **Number** 30 **Status** Active **Progress** **61 %** **Rock Products Committee** YES

Purpose Establish unique identifiers for each concrete mix design so that the Department is able to track the historical performance of specific concrete mixes and expedite the mix design review process.

Overall Progress Appears industry is willing to use unique naming system. Working group is meeting this to brainstorm to define naming system.

Activities Planned Then next step is specification language. Sub Task Group to continue meeting and moving forward.

Project Lead Julia Rockenstein **Office** METS Structures Materials **Phone** (916) 548-8296 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Survey industry on mix design numbering practices	Str Mat	10/15/2015	1/15/2016	100	100	Completed.
# 2 Determine potential obstacles to providing a unique identifier for each mix design	Str Mat	10/15/2015	7/15/2016	100	100	Completed.
# 3 Examine how uniform mix design numbering systems can be used to expedite the mix design review process.	Str Mat	11/1/2015	7/29/2016	100	100	Completed.
# 4 METS considers its business practices for tracking the unique identifiers.	Str Mat	12/1/2015	9/30/2016	30	70	In progress.
# 5 Develop and publish any needed specification updates.	Str Mat	12/1/2015	9/30/2016	0	70	In progress.
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 01/04/16 - Added deliverables and target dates. - CDS
04/29/16 - Updated deliverable percent complete and target dates. - CDS
05/31/16 - Updated deliverables percent complete and target dates. - CDS
06/13/16 - Updated overall progress, planned activities and deliverables percent complete. - CDS

Project **Precast Mix Design and Testing Data** **Task Group** Concrete **Subtask Group** Precast Concrete

Target Completion Date 9/30/2016 **Number** 31 **Status** Active **Progress** **70 %** **Rock Products Committee** YES

Purpose Requiring that precast facilities input their QC data and mix designs into DIME will further the Department's ability to verify and validate the quality of the material across projects.

Overall Progress Consensus on test data to be input into DIME and specification language has been completed.

Activities Planned Sub Task Group to continue meeting to work on implementation.

Project Lead Julia Rockenstein **Office** METS Structures Materials **Phone** (916) 548-8296 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Determine what data needs to be input into DIME.	Str Mat	10/15/2015	2/29/2016	100	100	Completed.
# 2	Examine how the DIME data can be used to expedite the mix design review process and improve traceability.	Str Mat	10/15/2015	7/31/2016	100	100	Completed.
# 3	Develop and publish any needed specification updates	Str Mat	3/31/2016	9/30/2016	40	50	Working on this.
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 04/29/16 - Updated deliverable percent complete and target dates. - CDS
05/31/16 - Updated deliverables % complete and target dates. - CDS
06/13/16 - Updated overall progress, planned activities and deliverables percent complete. - CDS

Project **Portable Skid Tester** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 6/30/2016 **Number** 33 **Status** Active **Progress** 0 % **Rock Products Committee** YES

Purpose Provide a means for contractors and consultants to fulfill their QC requirement for performing skid testing to ensure coefficient of friction requirements are met.

Overall Progress New portable skid testing devise has been developed.

Activities Planned A correlation study must be completed between the results obtained with the new portable skid tester and the results from the existing protable skid testing devices to ensure consistant results. Project is on hold until correlation study is completed.

Project Lead Bomasur Banzon **Office** Office of Roadway Materials and Testing **Phone** 916-227-7234 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	To make the FCMD plans available to contractors and consultants	Road Mat	3/1/2016	5/31/2016	0	135	Project is on hold until correlation study is completed.
# 2	Develop and provide training and certification for operators of new FCMD. The Department is the only agency that has operational knowledge of use, initial training of new operators and owners is required.	Road Mat	3/1/2016	4/30/2016	0	200	Project is on hold until correlation study is completed.
# 3	Revise specifications to include requirements for contractor QC testing of the coefficient of friction and Department acceptance testing requirements	HQ Constr	3/1/2016	6/30/2016	0	100	Project is on hold until correlation study is completed.
# 4	Revise CTM 114 and identify this test method as CTM 114A "Method of Test for Calibration and Certification of the Friction Coefficient Measuring Device" After the transition period is complete, revise CTM 114A to CTM 114.	Road Mat	3/1/2016	4/30/2016	0	200	Project is on hold until correlation study is completed.
# 5	Revise CTM 342 and identify this test method as CTM 342A "Method of Test for Measuring Friction Coefficient using the Friction Coefficient Measuring Device" After the transition period is complete, revise CTM 342A to CTM 342.	Road Mat	3/1/2016	4/30/2016	0	200	Project is on hold until correlation study is completed.
# 6	Revise Construction Manual and Bridge Construction Records and Procedures Manual to include contractor QC requirement and Department acceptance criteria.	HQ Constr	3/1/2016	6/30/2016	0	100	Project is on hold until correlation study is completed.
# 7	Provide centralized inspection, calibration and certification	Road Mat	3/1/2016	4/30/2016	0	200	Project is on hold until correlation study is completed.

	services at METS for contractors, consultants and Caltrans					
# 8	Build FCMDs for each District to use for performing quality assurance acceptance testing.	Road Mat	3/1/2016	5/31/2016	0	135

Log 02/26/2016-Project initiated. Kick Off Meeting planned for 03/15/2016 (tentative).
05/31/2016 Updated overall progress and planned activities. - CDS

Project **Precast Pavement - Phase II Enhanced Jobsite Quality** **Task Group** Concrete **Subtask Group** Precast Concrete

Target Completion Date 7/31/2017 **Number** 34 **Status** Active **Progress** 3 % **Rock Products Committee** YES

Purpose Improve the quality of precast concrete pavement projects by improving precast pavement standards, including field handling and installation, providing guidance and training, and streamlining contract administration.

Overall Progress Sub Task Group meeting held on May 5, 2016.

Activities Planned Sub Task Group to meet in July 2016 to discuss quality control requirements.

Project Lead Jim Cotey **Office** Construction Engineering **Phone** 916-227-5709 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Monitor and evaluate existing precast pavement projects.	Conc Pvmt	2/12/2016	9/1/2016	0	70	No progress to date.
# 2	Revise the standards, including plans and specifications, based on lessons-learned.	HQ Constr	2/12/2016	7/31/2017	10	25	Storming.
# 3	Develop inspection/installation Manual (Quality Assurance Program).	HQ Constr	5/1/2016	6/30/2017	0	15	No progress to date.
# 4	Develop a training program and trainers, and may include just in time training (JITT).	HQ Constr	5/1/2016	6/30/2017	0	15	No progress to date.
# 5	Collect performance and cost	Conc Pvmt	5/1/2016	6/30/2017	0	15	No progress to date.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log Project initiated
04/29/16 - Updated deliverable percent complete added target dates. - CDS
05/31/16 - Updated deliverables percent complete. - CDS
06/30/16 - Updated deliverables percent complete. - CDS

Project **Pavement Smoothness** **Task Group** Concrete **Subtask Group** Smoothness

Target Completion Date 1/31/2017 **Number** 35 **Status** Active **Progress** 9 % **Rock Products Committee** YES

Purpose Through training and increased knowledge a better understanding of the inertial profiler, IRI, and appropriate specifications requirements will lead to better paving practices and make more efficient pavement smoothness corrections.

Overall Progress Sub Task Group meeting held on May 27, 2016. Pavement smoothness data collection and other state practices were discussed.

Activities Planned Next Sub Task Group meeting is scheduled for July 6, 2016. Continue data collection and analysis. Complete summary of other states pavement smoothness practices.

Project Lead Ken Darby **Office** Construction Engineering **Phone** 916-227-5705 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Construction Procedure Directive	HQ Constr	2/19/2016	2/25/2016	100	100	CPD completed.
# 2	Paving Best Practices Training	HQ Constr	4/19/2016	7/29/2016	15	70	Working group formed.
# 3	ProVAL Training	HQ Constr	4/19/2016	7/29/2016	5	70	Working group formed.
# 4	Pavement Smoothness Corrections Training	HQ Constr	4/19/2016	8/31/2016	2	55	Working group formed.
# 5	Pavement Smoothness Data Collection	HQ Constr	2/19/2016	8/31/2016	10	70	Collecting data.
# 6	Analyze Pavement Smoothness Data	Conc Pvmt	6/1/2016	9/30/2016	0	25	
# 7	Revise Specifications, if necessary	Conc Pvmt	8/1/2016	1/31/2017	0	0	
# 8	Design Guidance/Construction Policy Bulletin	Conc Pvmt	8/1/2016	1/31/2017	0	0	

Log Project Initiated

04/01/16 - Updated planned activities and deliverables % complete. - CDS

05/31/16 - Updated planned activities and deliverables % complete. - CDS

Project **Volumetric Mixers for Proportioning Rapid Strength Concrete (RSC)** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 6/30/2017 **Number** 36 **Status** Active **Progress** 3 % **Rock Products Committee** YES

Purpose Evaluate the use of volumetric proportioning for RSC used for JPCP in meeting design requirements and performance needs associated with JPCP widening applications.

Overall Progress Meeting #3 on 06/28/16. Task order for petrographic testing on I-5 slab replacement project EA 03-1F4504 is in circulation for signature.

Activities Planned Proceed with the deliverables with the scoping document. Have a kick-off meeting with NCE for petrographic testing on I-5 slab replacement project EA 03-1F4504 task order. Meeting #4 on 08/10/16.

Project Lead Amy Fong **Office** Concrete Pavement **Phone** 227-5838 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Evaluate RSC durability.	Conc Pvmt	4/1/2016	12/31/2016	11	35	A task order is being draft to investigate I-5 slab replacement project EA 03-1F4504
# 2	Review nationwide practices concerning volumetric proportioning.	Conc Pvmt	4/1/2016	10/31/2016	4	40	Industry will conduct a literature review on California and national practices and performance.
# 3	Review Caltrans practices concerning volumetric proportioning of RSC.	Conc Pvmt	4/1/2016	10/31/2016	2	40	Caltrans Construction will perform a review of Caltrans practices of RSC volumetric proportioning for slab and lane replacement projects
# 4	Compare concrete characteristics for volumetric proportioning to batch mixing.	Conc Pvmt	4/1/2016	10/31/2016	0	40	Not started yet. Industry will perform a literature review of RSC volumetric mixing in comparison to batch mixed
# 5	Gather quality assurance data to evaluate volumetrically mixed concrete performance.	Conc Pvmt	7/1/2016	2/28/2017	0	0	Not started yet. Caltrans Construction will gather quality assurance data of post construction testing for batch and volumetric mixing.
# 6	Document findings of volumetric proportioning as a permanent option for RSC in JPCP applications.	Conc Pvmt	2/1/2017	6/30/2017	0	0	Not started yet.
# 7	Review existing volumetric proportioning specifications and recommend improvements if needed.	Conc Pvmt	3/1/2017	6/30/2017	0	0	Not started yet.
# 8					0	0	

Log 06/28/16 Meeting #3
05/24/16 Meeting #2
04/14/16 Kick off meeting held
03/07/16 project initiated

Project **Intelligent Compaction** **Task Group** Foundation **Subtask Group** Specifications

Target Completion Date 1/30/2017 **Number** 12 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

Purpose Develop specification for using intelligent compaction as quality control for Full Depth Reclamation (FDR) and Cold In-place Recycling (CIR).

Overall Progress Fourteen pilot projects have completed CIR work. Thirteen addition pilot projects are ongoing. 2015. Sub Task Group meeting held on June 9, 2016.

Activities Planned Continue to provide assistance and monitor on going pilot projects.

Project Lead Chuck Suszko **Office** Construction Engineering **Phone** (916) 798-6029 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP for Pilot Projects	HQ Constr	8/1/2013	6/1/2014	100	100	Final draft specification has been completed.
# 2	Pilot Projects CIR and FDR	HQ Constr	2/3/2014	9/1/2015	100	100	Four projects have been completed
# 3	Analyze Results from Pilot projects	HQ Constr	7/1/2014	10/30/2015	100	100	Have received data from four projects.
# 4	2nd Round of Pilot Projects	HQ Constr	3/1/2015	6/30/2016	10	100	Thirteen pilot projects have had bid openings for 2015
# 5	Analyze Results from Pilot projects	HQ Constr	6/1/2015	9/29/2016	10	80	Data received from four projects.
# 6	Finalize SSP	HQ Constr	8/1/2016	1/30/2017	5	0	
# 7	User guidance including construction manual update	HQ Constr	4/1/2015	1/30/2017	10	70	Draft IC Construction Guidance has been craeated.
# 8					0	0	

Log 10/30/13 CDS Progress Updated
4/29/14 - CDS Updated overall progress, planned activities and deliverables % complete.
6/27/14 - CDS Updated overall progress, planned activities and deliverables % complete.
10/30/14 - CDS Updated overall progress, planned activities and deliverables % complete.
12/17/14 - CDS Updated overall progress, planned activities and deliverables % complete.
03/30/15 - CDS Updated activities planned.
05/27/15 - CDS Updated overall progress, planned activities and deliverable % complete.
02/01/16 - CDS Updated overall progress, planned activities and deliverables % complete. Target completion date moved out to 01/30/2017.
04/01/16 - Updated deliverables % complete. - CDS
05/31/16 - Updated deliverables % complete. - CDS
06/30/16 - Updated deliverables % complete. - CDS

Project **Subbase and Base QA Requirements** **Task Group** Foundation **Subtask Group** Subbase and Base

Target Completion Date 12/30/2016 **Number** 13 **Status** Active **Progress** **85 %** **Rock Products Committee** YES

Purpose Update specs that establishes QA requirements for Sec 24-29. Ensure responsibilities for QC sampling and testing performed by the contractor and acceptance testing performed by the Department. Improve consistency between specs.

Overall Progress Received all mandatory stakeholders' concurrences and applied for apecificaitons posting for July 2016.

Activities Planned Target specifications posting date of July 2016.

Project Lead Deepak Maskey **Office** Concrete Pvmt **Phone** 916-227-5838 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 RSS	Conc Pvmt	6/19/2014	7/18/2016	100	100	Final drafts submitted to mandatory stakeholders.
# 2 Construction Guidance	HQ Constr	5/1/2015	12/30/2016	0	70	Guidance to be developed after RSS is approved.
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 05/28/15 Updated deliverables % complete. CDS
03/02/15 Received industry's second comment son sections 26 & 28. AF
02/13/15 Circulated draft sections 27 & 28 to industry and CT. AF
12/15/14 CT circulated 2nd draft specs on Dec 15. AF
11/24/14 STG meeting to go over comments of sec 25 & 26. AF
10/21/14 Received sec 25 & 26 industry comments. AF
10/03/14 Amy circulated sec draft 25 & 26 to Rob P. (industry). AF
10/02/14 STG meeting with industry. AF
09/15/14 Ken Darby circulated sec 25 & 26 for internal review. AF
07/15/14 CT only kick off meeting. AF
06/16/14 Scoping Document was approved. AF
08/30/15 Final set of drafts are circulated to team members for review.
10/27/2015: Final set of drafts are submitted to OE for final review.
05/31/16 Updated planned activties. - CDS
06/30/16 Updated deliverables % cmplete. - CDS

Project **Intelligent Compaction for Soils and Aggregate Bases** **Task Group** Foundation **Subtask Group** Aggregate Bases

Target Completion Date 6/30/2017 **Number** 14 **Status** Active **Progress** 5 % **Rock Products Committee** YES

Purpose Apply intelligent compaction for soils and aggregate base.

Overall Progress Working on draft non-standard specification.

Activities Planned The next Sub Task Group meeting will be held in July 2016.

Project Lead Ebi Fini **Office** Construction **Phone** (916) 227-5396 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop Intelligent Compaction NSSP	HQ Constr	8/17/2015	8/30/2016	25	85	First meeting held.
# 2 Pilot Progets (Target 6)	HQ Constr	3/30/2016	6/30/2017	0	20	No progress yet.
# 3 Analyze Data from Pilot Projects	HQ Constr	3/30/2017	6/30/2017	0	0	
# 4 Training for Using Veta Software	HQ Constr	7/30/2016	3/30/2017	0	0	
# 5 Intelligent Compaction Standard Special Provision	HQ Constr	3/30/2017	6/30/2017	0	0	
# 6 Construction Guidance	HQ Constr	9/30/2016	6/30/2017	0	0	
# 7				0	0	
# 8				0	0	

Log 04/29/16 - Updated deliverables % complete. - CDS
06/30/16 - Updated deliverables % complete. - CDS

Project **Cold In-Place Recycling** **Task Group** Preservation **Subtask Group** Recycling

Target Completion Date 9/30/2016 **Number** 3 **Status** Active **Progress** **60 %** **Rock Products Committee** YES

Purpose Evaluate existing pilot projects and develop standardized lab procedures for mix design, project design and construction guidance, and standard specifications for CIR.

Overall Progress Pilot projects continuing using NSSP. Mix design working group met on April 8, 2016 to discuss establsihing mix design representative of actual performance under field conditions.

Activities Planned Working group to meet in May 2016 to discuss MPQP requirements for recycling equipment.

Project Lead Hamid Moussavi **Office** Asphalt Pavement **Phone** (916) 274-6176 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Evaluate existing pilot projects (21 projects)	Asphalt	8/26/2011	12/31/2013	100	100	A few projects were visited.
# 2	Develop standard special provisions	Engr	1/1/2012	9/30/2016	60	95	Revised specification.
# 3	Standardize test methods/ lab procedures	Mets	9/3/2012	9/30/2016	40	95	LP-8 rewritten as engineered mix design.
# 4	Develop guidelines/ MTAG	Asphalt	1/2/2013	9/30/2016	75	95	In Progress
# 5	New Mix Design and JMF Forms	Asphalt	3/1/2013	9/30/2016	20	95	LP-8 circulated for comments.
# 6	Evaluate existing pilot projects in Southern region, Pavement Recycling Center at Cal Poly, Pomona (6 projects)	Cal Poly Po.	9/1/2011	6/30/2013	100	100	Cal Poly completed the report. Some data missing (not provided).
# 7					0	0	
# 8					0	0	

Log 07/29/10 - Approximately 7 projects have been done and 3 more upcoming. Total of 22 projects were selected and planned for summer of 2011 construction (some still in construction).
07/08/11 - Sub Task Group met and discussed some spec related issues.
08/26/11 - Cal Poly Pomona Recycling Center will monitor some Southern region projects to improve existing nSSP and project selection.
09/06/11 - The following projects are under evaluation by Cal Poly Pomona:
08-0P3504, SBD-95 PM 33.6/37.3 & 47.6/56.1
08-0P3604, SBD-62 PM 106.0/122.0
09-347304, INYO-136 PM 10.0/12.5 & INYO-168 PM 18.3/20.4
06-415904, KING-41 PM 11.6/20.0
06-459104, KERN 119 PM 0.0/4.3
06-0M4504, KERN 33 PM 68.8/73.7
09/09/11 - Sub Task Group met and discussed issues with the most recent projects and continued discussions on how to improve specs, including; mix design, smoothness, project selection, addition of cement, and cores vs. milling.
12/15/11 - Cal Poly has completed most of the sampling and testing of the above six CIR projects. The next Sub Task Group meeting is scheduled for 1-13-2012.
01/13/12 - Sub Task Group met in Cal Poly Pomona and continued discussions on how to improve the use of CIR technique. Industry will submit their position on a few issues to Caltrans by January 31, 2012. The outstanding issues are:

- Addition of cement, industry to submit their position
- LP-8, Industry's proposal is under review by METS
- Distillation vs. Evaporation test to determine emulsion residue, under review by METS
- Accredited lab & test results turnaround time, industry to submit their position
- Small repairs, industry to submit their position
- Smoothness, industry to submit their position
- addition of water (too much) will be further discussed

06/08/12 - Sub Task Group met in Cal Poly Pomona to discuss changes/modifications to the specs
06/12/12 - Specs was send to CT & Industry for review
03/27/13 - Update overall progress, activities planned and deliverables - CDS.
10/30/13 - Update to overall progress - CDS

06/27/14 - Revised deliverables target completion dates - CDS
07/10/14 - District Mtce Engineers have reviewed the most recent (2-21-14) CIR specs and some have provided comments.
- The Sub Task Group will meet in August of 2014 to discuss specifications & LP-8.
- CP2 Center will evaluate & monitor 06-0Q2501 (KIN-198-R9.5/R14.7) project to assist us in improving specs & guidelines.

10/30/14 - Update to overall progress, planned activities, deliverables target completion and % complete - CDS
12/26/14 - Updated status and % complete - SNB
01/04/16 - Updated status - still significant amout of work needs to be completed on the mix design. STG meetings are being scheduled to discuss this issue - SNB

Project **Fog Seal** **Task Group** Preservation **Subtask Group** Seals & Coats

Target Completion Date 5/31/2017 **Number** 4 **Status** Active **Progress** **74 %** **Rock Products Committee** YES

Purpose Investigating Fog Seal/Rejuvenator materials for skid resistance issues and introducing as a strategy again

Overall Progress Draft specification in 2015 format completed in February 2016. Work on new testing equipment for California Test 342 is continuing by METS.

Activities Planned Review comments received on draft specification.

Project Lead Haiping Zhou **Office** Asphalt Pavement **Phone** (916) 274-6022 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Develop project scope and identify deliverables	Asphalt	11/1/2005	5/4/2007	100	100	Completed. 5/4/07
# 2	Construct and monitor test sections with material testing	Chico	6/1/2007	12/30/2013	100	100	Draft report completed.
# 3	MTAG Update Fog Seal by State Forces	Asphalt	9/1/2008	4/1/2010	100	100	Completed MTAG update for State Forces 4/10/10
# 4	Develop Draft Specifications (SSP)	Asphalt	10/1/2011	7/31/2016	50	100	On hold until new testing equipment for CT 342 is completed.
# 5	Second round construct and monitor test sections with material testing	Chico	4/1/2013	8/31/2016	95	95	Chico is working on report for 2013 projects.
# 6	Develop New Testing Equipment for California Test 342T	Road Mat	4/1/2014	7/30/2016	95	95	Waiting for patent approval. Working on testing procedures.
# 7	MTAG Update	Asphalt	1/1/2015	3/31/2017	0	65	On hold
# 8	Training and Outreach including MTAG	Asphalt	3/1/2015	5/31/2017	0	60	No activity yet.

Log 4 sets of test section have been done.
The subtask group needs to draft their proposed specification
01/13/11 - Update targets and PYs
02/14/11 - Update target dates and task definitions - PJV
04/25/11 - Status Update - SR
05/06/11 - Updated Status and Tasks definitions. Held last Fog Seal Meeting 5/5/11 - DM
06/24/11 - Updated Status and next General Meeting of Seal Coat Committee is 7/7/11 - DM
09/06/11 - Cores for testing were delivered to APART on 7/8/11 - DM
10/12/11 - Draft Report on test sections delivered to Caltrans, still waiting for skid test results and some additional pavement tests for report to be complete. Doug will check with districts to see if request for skid test was placed and status - DM
10/13/11 - Fog Seal meeting held 10/13/11. Proceeding with a generic specification. Subtask group will meet 10/24/11 to review and finalize generic test requirements for each category type - DM
Location of Test Sites:
Kern 58 PM 123.3 to 125.1 Eastbound #2 Lane -District 9
Men 128 PM 25.0 to 28.0 Eastbound Lane- District 1
Modoc 395 PM 23.3 to 25.0 Northbound Lane -District 2
Inyo 395 PM 118.47 to 120.58 Northbound #2 Lane - District 9
11/23/11 - Subtask group met 10/24/11 to finalize final test requirements for the development of the generic spec. John Fox will type up the first draft for the committee to review and comment on. Doug will send out once converted to plain language format - DM
05/30/12 - John Fox sent in first draft of the fog seal specification. Specification was given to Peter Vacura for review. Vacura's staff and CP2 are doing testing on materials in place fog seals to aid with general specification - DM
03/27/13 - Updated overall progress, activities planned and deliverables. Added second round evaluation to deliverables - CDS
04/29/13 - Updated overall progress, activities planned and deliverables - CDS
07/11/14 - Updated deliverable #6 - SNB

11/24/14 - Updated deliverable #4 and #5 target compeletion dates - CDS
12/26/14 - Updated deliverables and % complete - SNB
04/30/15 - Updated target completion dates for delivables #4, #5 and #6.
07/1/15 - Updated target completion date for deliverables #5, 6, 7, and 8. HZ
01/04/16 - Updated status - SNB
01/27/16 - Updated target dates to reflect current status - HZ

Project **Rubberized Slurry Seal** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 6/30/2016 **Number** 5 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

Purpose Develop a NSSP for Rubberized Slurry Seal, evaluate performance and determine if strategy is beneficial for use on projects.

Overall Progress Technical rewrite of Section 37 is completed. Working group formed to revise draft 2015 version to work with the revised Section 37.

Activities Planned Next Sub Task Group meeting will be held on May 13, 2016.

Project Lead Sri Holikatti **Office** Asphalt Pavement **Phone** (916) 274-6074 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Create NSSP	Asphalt	6/1/2009	10/31/2012	100	100	Was completed but revising to include attempt to account for REAS strategy.
# 2	Construct D-11 Test Section	District	2/15/2011	7/29/2011	100	100	Completed
# 3	Evaluation of D11 project site	Chico	8/1/2011	8/1/2013	100	100	Plan to visit in Summer/Fall 2012.
# 4	Construct D6 Test Section	District	7/1/2011	12/1/2011	100	100	Construction completed
# 5	Evaluation of D6 project site	Chico	12/1/2011	8/1/2013	100	100	Evaluated June 2012. Update report.
# 6	NSSP	Asphalt	1/1/2013	6/30/2016	40	100	Attempting to develop spec with language to account for perfromance
# 7	MTAG Guidelines	Chico	1/1/2013	6/30/2016	0	100	Waiting for SSP development.
# 8					0	0	

Log 09/01/10, two REAS project are expected to be done this year, 11-277804 and 07-4Y3204. Need to plan projects for other methods.
05/13/11 - Updated Status - PJV
06/24/11-Updated Status and held focused rubberized slurry seal meeting 6/17/11, next General Meeting of Seal Coat Committee is set for 7/7/11 -DM
07/06/11-Test Site Location D11 - EA 11-277804, EFIS 11-00000288
In San Diego County at Rincon, Lake Henshaw and Morettis from Valley Center Road to Route 79.
11-SD-76-PM 32.9/52.3
Test Site Location D6 - EA 06-0J4904, EFIS 06-00000184
IN KERN AND KINGS COUNTIES ABOUT 6 MILES SOUTH OF KETTLEMAN CITY FROM ROUTE 46/5 SEPARATION TO 2.9 MILES NORTH OF WATERLOO AVENUE
06-Ker/Kin-05-73.0/87.0,0.0/10.0 (Project location was modified, test sections will be the first mile and last mile of the project)
09/06/11-Held focused rubberized slurry seal meeting 8/10/11. Will start 1st draft of a performance NSSP using REAS and terminal blend slurry seals. Target date for 1st Draft for committee members was 9/7/11. Next meeting will be mid to late September -DM
09/21/11- Revised workplan. Updated progress of industry has submitted revised NSSP for subcommittee to review - DM
10/13/11-District-11 pilot project completed in September and initial evaluation by CP2C has performed. D6 test site location has been modified to include the entire project lane miles since the construction of the test sections went so well and the District was happy with the results. The draft of the NSSP is being converted to plain language format prior to being sent out to committee members. Next meeting is tentatively scheduled for 10/24/11 if format is complete. DM
11/23/11-Draft copy of plain language format of rubberized slurry seal sent out 11/08/11 to Task group members for review. Next scheduled meeting we will go over comments received and finalize for use.DM
10/30/13 - Updated activities planned - CDS
04/29/14 - Updated overall progress, activities planned and deliverables - CDS
10/14/30 - Updated overall progress and deliverable % complete - CDS
11/24/14 - Updated deliverable #7 target completion date - CDS
12/26/14 - Updates status - SNB
02/25/15 - Updated activities planned to on hold - CDS
04/30/15 - Updated target completion date for deliverable #6. CDS
07/29/15 - Updated target completion date for deliverables #6 & #7 to 3/30/16.
01/04/16 - Updated status - Waiting for the STG to start working on this project. Work was suspended while Section 37 was being updated to conform to 2015 Standards - SNB

Project **Modified Binder Chip Seal (PM/TR)** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 1/30/2017 **Number** 6 **Status** Active **Progress** **88 %** **Rock Products Committee** YES

Purpose Improve the polymer modified / terminal blend rubber chip seal spec to a standard special provision.

Overall Progress Draft specification has been modified to work with the 2015 revised Sectioin 37 and sent out for review. Sub Task Group meeting held on May 13, 2016 where comments received were discussed. Circulated final draft and comments resolution table.

Activities Planned Specificaion to be implemented as a standard special provision. Target for posting this specification is January 2017 the next planned posting date.

Project Lead Sri Holikatti **Office** Asphalt Pavement **Phone** (916) 274-6074 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop 2006 NSSP	Asphalt	12/1/2008	12/1/2010	100	100	2006 NSSP completed and used on pilot projects.
# 2 Pilot Projects	Asphalt	12/1/2008	12/1/2012	100	100	Completed.
# 3 Complete SSP	Asphalt	12/3/2012	1/30/2017	95	85	SSP ready for final review.
# 4 Update Guidelines	Asphalt	12/3/2012	1/30/2017	35	85	Draft guidelines have to be developed.
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log Test section have been completed in district 11. NSSP is currently in use.

01/13/11 - updated Pys - LR
02/09/11 - Added NSSP deliverable
05/06/11 - Modified order of deliverables - DM
06/25/11 - Next General Meeting of Seal Coat Committee is set for 7/7/11 - DM
09/06/11 - General Meeting held 7/7/11. Modified order of deliverables based on committee comments - DM
09/21/11 - Modified Project Name to Modified Binder Chip Seal - DM
10/13/11 - Industry has uploaded previous project locations of State, County and Local Agencies projects utilizing the Modified binder chip seal for historic information. Caltrans needs to evaluate performance of site locations - DM
11/23/11 - Held general meeting 11/14/11, have not held a focused subtask meeting on this. At general meeting, decision was to look into this next year as we finish off the rubber slurry, sand and fog & rejuvenator specs - DM
03/27/13 - Updated overall progress, activities planned and deliverables - CDS
10/30/13 - Updated overall progress, activities planned and deliverables - CDS
04/29/14 - Updated overall progress, activities planned and deliverables - CDS
06/27/14 - Updated overall progress, activities planned and deliverables % complete - CDS
01/29/15 - Updated target dates for deliverables 3 & 4 -CDS
02/25/15 - Updated activities planned to on hold - CDS
07/29/15 - Updated target dates for deliverables 3 & 4 to 12/30/15 - CDS
01/04/16 - Updated status - Waiting for the STG to start working on this project. Work was suspended while Section 37 was being updated to conform to 2015 Standards - SNB
05/31/16 - Updated planned activities. - CDS
06/30/16 - Updated activities planned, deliverables % complete and target completion date. - CDS

Project **Warm Mix Asphalt Rubber Chip Seal** **Task Group** Preservation **Subtask Group** Seals & Coats

Target Completion Date 6/30/2017 **Number** 8 **Status** Active **Progress** **55 %** **Rock Products Committee** YES

Purpose Introduce WMA technology into hot-applied rubberized asphalt binder chip seals.

Overall Progress Pilot projects on SR 36 near Red Bluff, SR 44 near Lassen Park, and SR 95 near Needles are all completed. Construction reports developed. One-year evaluation of SR 36 and SR 95 completed. 8-month evaluation of SR 44 completed.

Activities Planned Continue to monitor the constructed pilot projects and look for additional pilot projects.

Project Lead Haiping Zhou **Office** Asphalt Pavement **Phone** (916) 274-6022 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 NSSP	Asphalt	8/3/2010	1/18/2013	100	100	Developed.
# 2 Pilot Projects	District	1/2/2013	10/30/2014	100	100	Three pilot projects are completed.
# 3 Evaluation of Projects	Chico	5/2/2013	12/30/2016	50	85	SR 36: One-year evaluation completed in September 2014. SR 44: 8-month field review done in May 2015. SR-95-1 yr evaluation completed in 11/2015.
# 4 Evaluation Reports	Asphalt	7/1/2013	12/30/2016	75	85	SR 36: One-year field evaluation report completed. SR 44: 8-month field review report completed. SR-95: One year report developed.
# 5 SSP	Asphalt	7/1/2015	6/30/2017	0	50	Need to review field performance and improve the NSSP as necessary.
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 08/03/10 - NSSP just being developed for possible CT demo project in D6, Fresno Rte 5.
01/11/11 - Revised Pys and target dates - LR
02/14/11 - Rewrite purpose and need - PJV
06/25/11 - Next General Meeting of Seal Coat Committee is set for 7/7/11 - DM
10/13/11 - Held general meeting 7/7/11, have not held a focused subtask meeting due to construction season and availability of industry members - DM
11/23/11 - Held general meeting 11/14/11, have not held a focused subtask meeting on this. At general meeting, decision was to look into this next year as we finish off the rubber slurry, sand and fog & rejuvenator specs - DM
08/08/12 - Held meeting with Seal Coat committee to discuss proposed AR chip seal specification. Industry had a few concerns with proposed specification - DM
09/26/12 - Revised AR chip seal specification sent out to industry, maintenance engineers, and material engineers for comment. Scheduled next seal coat committee meeting to discuss specification to be held Oct. 9 at translab - DM
11/01/12 - Held meeting with Seal Coat committee on Oct. 19th to discuss proposed AR chip seal specification and comments received by industry and Caltrans. Industry had a few concerns with terminology used by Caltrans. A technical task group will review some of the proposed technical specifications dealing with viscosity, softening point, sampling, and vialet test in mid-November to resolve issues. Internally, Caltrans will review the terminology issue with management and other issues brought up by the comments - DM
10/30/13 - Updated project progress and deliverables CDS
07/16/14 - Updated project progress and deliverables - HZ
10/30/14 - Updated overall project progress and deliverables % complete - CDS
01/22/14 - Updated the Caltrans lead to Haiping Zhou since he has been working with CSU Chico to study the project - SNB
03/18/15 - 1-year field evaluation & report on SR 36 completed. Construction reports for SR 44 and SR 95 developed - HZ
05/08/15 - 8-month field evaluation on SR 44 completed on 05/07/15 - SNB, HZ.
08/05/15 - 8-month field evaluation report is being finalized - HZ.
01/27/16 - Updated status - HZ
4/5/2016 - Updated status - HZ

Project **Concrete Sealer/ Hardener** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 12/31/2018 **Number** 16 **Status** Active **Progress** **55 %** **Rock Products Committee** YES

Purpose Reduce traffic related abrasion and chloride related deterioration of concrete pavement exposed to extreme conditions.

Overall Progress Year 0 evaluation complete and report drafted for 03-4M8404 NEV-80 test section. Field testing for year 1 as done in June.

Activities Planned Evaluate year 1 and draft report for 03-4M8404 NEV-80 pilot project.

Project Lead Amy Fong **Office** Concrete Pavement **Phone** (916) 227-5838 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Cost analysis and nSSP	Conc Pvmt	7/2/2012	11/30/2012	100	100	Drafted hardener nSSP and PIF.
# 2 Pilot projects	District	7/30/2012	10/30/2015	100	100	Hardener placed on Sept 11-12/12 WB at Kingvale 03-4M3004; 03-Pla,Nev-80-68.8/69.8, 0.0/R2.5. Shot blasting and retreatment of original 2009 Soda Springs test section on Oct 9-10. Grind/ shot/ treat on 03-4M8404 Nev-80 Boca-Floriston Summer 2015.
# 3 Test plan	Conc Pvmt	7/25/2012	8/31/2015	100	100	Test plan completed. 3 year evaluation of Boca/Floriston installation started by consultant October 2015
# 4 Materials issues	Materials	1/7/2013	12/31/2017	51	70	Review product info, patents, and standard tests. Incorporate evaluation into task order if necessary.
# 5 SSP	Conc Pvmt	6/3/2013	4/15/2018	50	65	nSSP update for materials and construction issues. Resolve legal issues related to patents.
# 6 Guidance	Chico	1/4/2016	6/30/2018	5	20	Concrete Pavement Guide and Construction Manual.
# 7 Performance reports	Conc Pvmt	10/1/2012	12/31/2018	15	60	Evaluation delayed due to resource issues. Awaiting new consultant contract and final results lab abrasion testing.
# 8 Training material	Conc Pvmt	1/4/2016	6/30/2018	0	20	TBD

Log 08/03/10 - October 2009, a section of PCC pavement on I-80 near Soda Springs was treated with this material Cores taken October 2010.
03/23/11 - Update deliverables and schedules - LR
04/08/11 - d glauz, revised progress, purpose and need.
05/15/12 -Draft scoping doc sent to work group
05/30/12 - Updated database
07/30/12 - Updated database to reflect latest scoping doc
08/01/13 - Received revised year 1 task order submittal.
August 2015 - Three different lithium hardeners applied to Rte 80 from Boca to Floriston in all traveled lanes is completed. Two control segments left untreated.
October 2015 - Three year evaluation of Boca/Floriston project begun.
02/01/16 - Updated #4 Materials Issues end date to 12/31/2017 since the 3 year evaluation will be completed by Fall 2017. AF

Project **Concrete Pavement Joint Filler for Wide Joints** **Task Group** Preservation **Subtask Group**

Target Completion Date 12/31/2016 **Number** 17 **Status** Active **Progress** **43 %** **Rock Products Committee** YES

Purpose To ensure joint performance in concrete pavement wide joints, or when joints open wide due to temperature and moisture fluctuations and traffic loads, filler material for wide joints is needed to reestablish contact between joint walls of adjacent slabs.

Overall Progress Compiled a summary of test procedures and specs for filler materials used by TxDOT and other state DOTs. Submitted these procedures to METS for decision regarding development of new test methods or adoption of methods used in other states.

Activities Planned Activities temporarily suspended until METS can review other state DOTs test procedures and specs to determine whether to develop new test methods or adopt existing test methods and specs used in other states.

Project Lead Linus Motumah **Office** Concrete Pavement **Phone** (916) 227-5851 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Literature Search	Conc Pvmt	10/1/2013	1/31/2014	100	100	Completed pending write up.
# 2 Properties for Joint Fillers	Conc Pvmt	2/1/2013	6/30/2014	100	100	Compiled a list of joint filler materials properties.
# 3 Joint Filler Performance	Conc Pvmt	10/1/2014	12/31/2014	100	100	Compiled a list of joint filler materials performance standards used in other states. Submitted the list to METS for decision on the way forward
# 4 Draft SSP	Conc Pvmt		9/30/2016	10	100	Currently ON HOLD Pending development and adoption of test procedures for potential qualified material list
# 5 Pavement Guidance	Conc Pvmt			0	0	DISCONTINUED for the time being
# 6 Final SSP	Conc Pvmt		10/31/2016	0	100	Currently ON HOLD Pending development and adoption of test procedures for potential qualified material list
# 7 Authorized Materials List	Str Mat		12/31/2016	0	100	Currently ON HOLD Pending development and adoption of test procedures for potential qualified material list
# 8				0	0	

Log 09/26/13 - Sub-task group meeting
03/27/14 - Sub-task group meeting.
06/25/14 - Sub-task group meeting.
10/09/14 - Sub-task group meeting. Next meeting (conference call) scheduled for 10/28/14
12/10/14 Met with Joe Peterson (METS) to discuss development of California Test methods and specs
01/15/15 Submitted to METS list of joint filler materials performance standards used in other states for decision on whether to develop new test methods or adopt those used in other states.

Project **Concrete Spall Repair (Authorized Materials List)** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 6/30/2017 **Number** 18 **Status** Active **Progress** **46 %** **Rock Products Committee** YES

Purpose Develop specific standardized guidelines, specs, plans, and training for constructing partial depth spall repairs with alternative materials, including hot-applied polymer resin, polyurethane, and epoxies.

Overall Progress Developed draft task order for additional testing and evaluation.

Activities Planned Finalize task order for additional testing and evaluation.

Project Lead Amy Fong **Office** Concrete Pavement **Phone** (916) 227-5838 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Scoping document	Conc Pvmt	7/1/2011	10/1/2013	100	100	Complete.
# 2 Develop pre-qualified products list for concrete patching materials. 2 phases: fast-setting will be followed by polymer list. Schedule TBD.	Materials	1/1/2012	12/15/2016	61	90	Materials in METS initial report on proposed AML will be characterized so htat properties can be specified.
# 3 Update standard spec for material properties	Conc Pvmt	9/9/2013	12/18/2016	0	85	Incorporate materials updates for AML. On hold until OE technical moratorium is lifted for 2015
# 4 Update spall repair guidance -	Conc Pvmt	7/1/2013	2/28/2017	70	80	Revise Concrete Pavement Guide for materials, design, and spec changes.
# 5 Update spall repair training	Conc Pvmt	2/1/2016	6/30/2017	0	30	Revise or develop training material for materials, design, and spec changes.
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 05/11/10 - This items includes hot applied PM resin. Requested by John Roberts of IGGA. pre-proposal submitted to CP2 innovation database.
August 2015 - Initiating plan to characterize material that by survey have been determined to be preferd paching material by maintenance users.
02/01/15 - Developed draft task order for materials characterization. AF

Project **2015 Section 37 Technical Update** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 7/29/2016 **Number** 20 **Status** Active **Progress** **96 %** **Rock Products Committee** YES

Purpose Update Standard Specifications section 37 to include current terminology, practice and industry standards.

Overall Progress Final draft of Section 37 and assocaited standard special provisions has been completed. Sub Task Group meeting held on October 2, 2015 to discuss any comments received on the final draft.

Activities Planned Specification is targeted for posting on July 15, 2016.

Project Lead Sri Holikatti **Office** Asphalt Pavement **Phone** (916) 274-6074 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %		Status
# 1 2010 Section 37 Industry comments resolution	Asphalt	8/5/2014	12/20/2014	100	100	Industry comments have been addressed by working group.	
# 2 Revise 2015 Section 37	Asphalt	10/1/2014	7/29/2016	95	95	Resolve mandatory stakeholder comments.	
# 3				0	0		
# 4				0	0		
# 5				0	0		
# 6				0	0		
# 7				0	0		
# 8				0	0		

Log 10/30/14 - Updated overall progress and deliverables % complete - CDS
12/26/14 - Updated status - SNB
02/25/15 - Updated activities planned - CDS
08/21/15 - Updated activities and due dates - SNB
09/30/15 - Updated activites and % complete - CDS
01/04/16 - Updated status - SNB
06/30/16 - Updated deliverables % complete. - CDS

Project **Cold In-Place Recycling Using Foamed Asphalt** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 1/31/2017 **Number** 21 **Status** Active **Progress** 22 % **Rock Products Committee** YES

Purpose Develop specification for cold in-place recycling using foamed asphalt.

Overall Progress Draft specification for using cold in-place recycling using foamed asphalt has been completed. Mix design working group met on April 8, 2016 to discuss establsihing mix design representative of actual performance under field conditions.

Activities Planned Working group to meet in May 2016 to discuss MPQP requirements for recycling equipment.

Project Lead Hamid Moussavi **Office** Asphalt Pavement **Phone** (916) 274-6176 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop NSSP	Asphalt	8/5/2014	3/31/2016	100	100	Completed darft specification.
# 2 Develop Mix Design Test Method to replace LP-8	Materials	8/5/2014	9/30/2016	15	90	Roadway Materials Testing group working on the Mix Design Test method
# 3 Pilot Projects	Asphalt	8/1/2016	12/31/2016	0	20	No projects yet.
# 4 Finalize Standard Special Provision	Asphalt	6/1/2016	1/31/2017	0	10	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 10/30/14 - Updated overall progress and deliverables % complete - CDS
12/26/14 - Updated progress and schedule - SNB
02/25/15 - Updated activities planned and deliverables % complete - CDS
05/08/15 - Updated status - SNB
08/21/15 - Updated status - SNB
05/05/16 - NSSP has been completed. CIR-Mix-WG met on April 8. 2016. CIR-MPQP-WG will meet in may, 2016. HM