



Building Better Roads Working Group
General Meeting No. 4
Meeting Minutes

LOCATION: County Operations Center / Kearny Mesa - 5500 Overland Avenue (Training Room No. 120) San Diego, CA 92123

DATE OF MEETING: June 11, 2019 (1:30 PM)

ATTENDEES: See attached sign-in sheets

AGENDA:

- Welcome
- Introductions/Sign-in
- Public Comments
- Safety Moment
- Recap of Working Group's Progress
- Subcommittee Reports
 - Reclaimed Asphalt Pavement (RAP)
 - Alternative Pavements
 - Mix Types
 - Contracting
- Questions and Comments
- Industry and Organization Updates
- Keynote Speaker, C&D Recycling
- Keynote Speaker, City of Chula Vista

WELCOME

Bill Morgan, County of San Diego - DPW

Thank you to Crystal Howard and Superior Ready Mix for setting up and hosting the second plant tour. If there is further interest additional tours can and will be arranged. The tours allow for a deeper understanding of the inner working of a batch plant, the challenges that the plant faces and a better understanding of how the suggested business practices and programs generated outside and away from the facility may affect the workings of the plant itself.

The construction industry is on the rise throughout the region and we all want to better utilize the limited resources of human capital and funding. We want to focus on sustainability with respect to economic, social and environmental issues.

Equally important is to build partnerships across agencies and industries. I encourage folks to introduce themselves to others as we have brought together a broad breadth of professionals in our industry.

INTRODUCTIONS/SIGN-IN

Rich Fitterer, Kleinfelder Construction Services

- Rich Fitterer introduced himself and his role as the Building Better Roads Facilitator.
- Reminder to sign-in; introductions around the room for all attendees; name and work background.

PUBLIC COMMENT

Rich Fitterer, Kleinfelder Construction Services

- The meeting was opened for any interested parties to make a public comment.
- No public comments provided.

SAFETY MOMENT

Rich Fitterer, Kleinfelder Construction Services

- Identify locations of building exits, safety meeting area outside, restrooms, and AED
- Safety Share: Importance of defensive driving

RECAP OF WORKING GROUP'S PROGRESS

Mark Perrett, County of San Diego – DPW

- This is the fourth Working Group meeting. In between these meetings four subcommittees have been conducting meetings. [Reclaimed Asphalt Pavement (RAP); Mix Types; Contracting; and Alternative Pavements]
- 113 people have attended these meetings.
- In April, CalAPA hosted and the University of California Pavement Research Center (UCPRC) presented on the evaluation of using high RAP mixes.
- Subcommittees have generated 12 draft "Guidance" documents for review, comment and development. The goal for these guidance documents will be the acceptance and ultimately, the implementation throughout the region.
- Participation and involvement are key components in the Building Better Roads initiative. Encourage spreading the word, bringing in other professionals to join in the working groups and subcommittees.

RECAP OF WORKING GROUP'S PROGRESS (continued)

Rich Fitterer, Kleinfelder Construction Services

- Looking to schedule Working Group meetings for June, October and February (three times a year).
- Regional Agency Survey went out this morning to most of the local agencies with the goal of gathering details on how each one handles various items being discussed within the subcommittees.
- Working on improving the Building Better Roads website's functionality and noting that the

Meeting Minutes are being posted there.

- A multi-step review process has been created and put into action for the Guidance documents. This is a critical operation to ensure that the documents have been thoroughly vetted, and are comprehensive, credible, accurate and helpful. SharePoint sites have been created to facilitate this process.
- Question was raised as to the generation of an Annual Report. This is a good suggestion and will be considered.

SUBCOMMITTEE REPORTS

Reclaimed Asphalt Pavement (RAP)

Keith Kezer, County of San Diego – DPW

Four areas of focus of this subcommittee:

1. Use of RAP percentage in Asphalt Concrete Overlays (ACO) in excess of 15% (greater than 15%, less than 25%)
2. Use of RAP percentage in ACOs in excess of 25% and its application (lower volume areas)
3. Use of RAP in Pavement Seals
4. Regulatory environment does not support processing and long-term storage of RAP for reuse.

Subcommittee chose Regulatory Limitations on long term storage and RAP in Pavement Seals as the initial two areas to move forward with the drafting of white papers on. The Regulatory Limitations paper is currently in draft form and is in the first stage of being reviewed and commented on.

The use of RAP in Pavement Seals is a bit more challenging as there is not currently a widely accepted standard for this practice. This draft is in its early stages of development. The subcommittee recognizes the importance of actual field application of the guidelines set forth by the white papers. Since there is not currently a specification that they can reference in this case it is critical that the draft be thoroughly scrutinized such that a comprehensive guideline can be presented to the agencies for implementation.

Alternative Pavements

Mike Aguilar, County of San Diego – DPW

Six topics previously identified to further investigate

1. Use of Kevlar Fiber in HMA
2. Use of Conventional Concrete Pavement
3. Use of Roller Compacted Concrete Pavement
4. Use of Concrete as an Overlay over traditional AC Roads
5. Full Depth Reclamation (FDR) of Existing Road Section
6. Cold In-Place Recycling (CIR)

FDR and CIR were selected as the first guidance documents to run through the review and vetting process. Currently they are in the first stage of receiving comments on the drafts. It is noteworthy that a draft has been generated for the use of RCC also.

Mix Types

Sam Tadros, County of San Diego – DPW

Group met on May 14th to develop a strategy for the review, development and implementation of the guidance documents.

Developed and sent [this morning] an on-line survey for input from regional agencies.

With the results/input from the survey choose two of the following five guidance documents topics to develop further:

1. Warm Mix Asphalt (WMA) use
2. Evaluate ability to utilize mix types and special provisions for all agencies in SD Co.
3. All local agencies should use Standard Specs developed specifically for local agency needs.
4. Evaluate need to require fractionation for RAP mixes above 15%.
5. Consider balance testing to establish mix designs that are durable and resistant to rutting, while maintaining elastic properties that help with crack resistance.

Matt Pound (AGC) discussed the draft guidance document on the fractionation for RAP mixes above 15%. With the forecasted limited aggregate reserves, improved methods for fractionation will become critical. This improved fractionation can be achieved through standardized stockpile management and site preparations.

Responding to a question regarding the cost impacts resulting from implementing these practices, Matt Pound indicated that many of the practices have been put into practice already as without them he would be concerned about the product he himself was delivering. The practices that would be formalized in the guidance documents would provide the County something for which they could hold the material suppliers accountable for. Adding that three of the four asphalt producers were involved in the development of this draft; it is reasonable to assume these guidelines will be accepted and readily implemented.

Contracting

Orland Mott, Mott Engineering

Subcommittee met in May to discuss the following topics:

1. Use of Electronic Bidding System
2. Delayed/Flex Start to Contracts
3. Traffic Control Restrictions
4. JOC Contracting Improvements - Reduce Scope

Included in the regional survey, that was sent out this morning, are questions regarding the feasibility of developing a Regional Bidding Calendar.

Decided revised drafts of the four subcommittee topics would be due by June 15th after which a determination of which one would be the first topic to develop further.

QUESTIONS AND COMMENTS:

Mark Perrett, County of San Diego – DPW

- **Q:** Is the intent for the white papers to develop specifications? Given the level of diversity across the region it is suggested that where necessary the white papers do develop a specification for implementation across the region.
 - **A:** Part of the intent of the survey was to collect data in this regard to see if there was some commonality amongst the agencies for which a specification can work towards.

INDUSTRY AND ORGANIZATION UPDATES:

Matt Pound, AGC

Two items for discussion:

1. Skilled and Trained Work Force (AB 3018)
 - a. Apprenticeship and Pre-Apprenticeship Programs
 - b. Two-day workshops for high school and college students
 - c. Working with Project Cornerstone to introduce students to the trade programs at AGC
 - d. Sets criteria for the number of trained Apprentices which can impose challenges for companies to meet these guidelines.

2. Concerns regarding the costs for disposal of AC and concrete
 - a. Recommend implementing the use of recycled products to limit the amount of disposal

Brandon Milar, CalAPA

Items for discussion:

1. Training for Local Agencies
2. The importance in maintaining sound communication between parties
3. Work zone safety. A source for useful training and informative videos is available at the Watchfor.us website.
4. Greenbook Committee Update: Met about a week ago and discussed the use of high recycled materials in slurry seals. Asphalt task force will be moving this forward in the August 2019 meeting. Let Brandon know if you want to be involved.

KEY SPEAKER, C&D RECYCLING

Stephanie Ewalt - County of San Diego Waste

See attached slide deck for details. The following is a brief summary of the key points:

Annual unincorporated disposal volume: 475,000 tons. 34% is Construction and Demolition (C&D).

Reasons for changing C&D ordinance:

1. Only about half of the existing building projects comply with the ordinance
2. Board Direction: 75% diversion by 2025. 80% by 2030.
3. New C&D diversion requirements to align with CalGreen

4. SB1383 will require enforcement
5. Revised project thresholds

County has a GIS map available to the public identifying recycling centers.

C&D RECYCLING (continued)

Orland Mott, Mott Engineering

- County projects using recycled materials in which 4,000 scrap tires have been diverted from landfills using rubberized pavement and slurry seal.
- Rubberized seal replaces up to 6% of the asphalt binder with ground rubber tire.
- Preferred product is the TR-MAC but that is unavailable recently.
- 100,000 scrap tires diverted for ac overlays. Explained improved performance of rubberized ac pavements.

KEYNOTE SPEAKER, CITY OF CHULA VISTA

Jose Luis Gomez, PE/PLS - City of Chula Vista

See attached slide deck for details. The following is a brief summary of the key points:

- Discussed the importance of cooperation amongst all parties using the analogy of a three-legged stool in which each one is a critical component (Supplier, Contractor and Agency).
- Starts with advance planning utilizing a committee of design, construction, planning, and finance.
- They use a software program that prioritizes the repair plan and they hold firm to it
- Full depth reclamation has proven to be more cost effective, shorter in duration with less disruption.
- Balance of pavement rehab work is slurry and overlay.
- Warm Mix Asphalt (WMA) - Key is getting good compaction and eliminating air voids.
- Recommends incorporating test sites within a project.
- Discussed the importance of keeping the public informed as to why a project benefits them.

QUESTIONS AND COMMENTS:

- A comment on the need for permanent BMPs if the subgrade is disturbed was raised. This is a regulation that will need to be examined when a project is in the early stages of development. Per Al Ochoa, if you touch base you must install permanent BMPs.
- Concerned about the new Senate Bill which mentions enforcement. Per Stephanie – we need to start educating folks about these requirements. Enforcement will affect all of us in cost and levels of management.
- Frank Rivera with the City of Chula Vista discussed that they moved away from a “Worst First” repair/maintenance strategy. Utilizing specialized roadway assessment software, the City has developed a long-term pavement rehabilitation strategy that is published and transparent to all. When a call comes regarding pavement issues, rather than modify their plan, they will send the pot-hole crew out, if necessary, and refer to the established pavement rehab program. The department has had success in holding true to the program’s calculations and reducing public/political influence on their maintenance plan.

NEXT STEPS:

Rich Fitterer, Kleinfelder Construction Services

- New topics are welcome and invites group to contact Rich or Mark if there are additional

topics anyone would like to discuss further or if they're interested in joining a subcommittee group

- Working Group Meeting No. 5 scheduled for October 15th
- Meeting adjourned at 3:15 PM

CLOSING:

Mark Perrett, County of San Diego – DPW

- Mark thanked the key speakers for their presentations and thanked everyone for attending

Bill Morgan, County of San Diego – DPW

- Suggested everyone review aggregate sustainability map to be reminded of the imminent challenges we all face. Bill Morgan noted the importance of understanding the scope and reach of the enforcement of SB1383.