



Date: July 16, 2020

Subject: Work Zone Council Meeting

Attendees: Brenda Boell, Tom Bruun, Jared Bunn, Clayton Burke, Tim Crouch, Cortney Falero, Roy Gelhaus, Steve Gent, Jon Jackels, Mike Kennerly, Skylar Knickerbocker, Brad Lauderman, Tony Lazarowicz, Andy Lewis, Donna Matulac, Wes Musgrove, Jim Nelson, Kent Nicholson, Jon Ranney, Roxanne Seward, Tim Simodynes, Willy Sorenson, Dan Sprengeler, Jim Webb, Kaleb Wohlgemuth, Austin Yates, Bob Younie,

Purpose of Meeting:

HDMT has approved the formation of a Work Zone Council to provide overarching leadership and direction of work zone activities throughout the state. The activities of the Council will promote establishing principles of improving mobility and safety impacts created by work zones, improve communication and coordination of these efforts, and foster innovation and participation by field operations personnel.

Summary of Meeting:

Welcome and Introductions – Clayton

Work Zone Performance Measures – Wes Musgrove and Tim Simodynes

Wes – DOT has developed TSMO performance measures. We will work to merge these with the work zone performance measures. More information will be available at the October Work Zone Council Meeting.

Speed Feedback Trailer Pilot in District 5 – Dan/Brad Lauderman

District 5 has been evaluating both trailer-mounted signs and standalone skid-mounted YOUR SPEED and Regulatory Speed Limit signs. (see attached photos)

Since May 1st 2 different bridge crews have been using them for closures. They are evaluating both types of speed feedback signing (standalone and trailer-mounted) to see which they like the better.

Brad has a spreadsheet to track data, location date, maintenance work, TC series, # lanes, start and end times. Using this form of tracking allows us to sort by TC usage, work type, etc.

Current comments from those using them: Overall, they are working well, and the workers appreciate them being out there. They like the trailers because they are easier to set up and the signs are larger.

Funding: purchasing has been difficult, but they would like more of the same units, they already have all the software up and running and is easy to use. The software requires a subscription for service. We are not sure where this funding will come from in the future.

Possible Funding: Bob Younie mentioned ABD equipment purchase program. This is usually used for trucks and equipment. Bob will talk to Brad Osborne to see if they could use this funding source. Bob will work with Clayton and Dan about using this and understanding this funding source.

District 5 evaluation needs to be shared with other districts and local agencies

** Bob will set us a meeting or do this during DOM, include Renee Shirley from purchasing and get everyone involved to comment

Work Zone Delay – Skylar

Currently have a white paper developed that we can send out to the council. Looked at Michigan and Virginia methods to analyze delay. Recommend Iowa DOT will use 4-minute delay for lane closures on multilane roadways. White paper and presentation attached.

Implementation Discussion of Using Work Zone Delay Data - Willy Sorenson

Next steps/Action Items

1. Modify the draft PPM 500.19 input specifically 4 min delay is acceptable.
2. Modify the LCPT to show the 4 minutes of delay
3. Making it easier for everyone to know where we can close lanes and when
 - Map example from D1 with closure times that is updated annually.
 - Could be 2 maps – 8-hour closures (full shift of work) or 2-hour closures (maintenance, towing, utilities, etc.)
 - Projects can dive into these times deeper and extend the times, but this is a good place to start. The map as is can be added to contract documents as working hours.
4. Tap the public for their opinion on work zone delay.
 - We should maybe put this on-hold since it is not something we can currently work on.

Intelligent Work Zones - Tim Simodynes/Skylar

- 72 Traffic Critical Projects for 2020 construction.
- 42 IWZ deployments
- Currently we have 34 active deployments (several of these are carry over from 2019) and 23 utilizing APS logic (queue detection)
- Tracking and performance measures are being tracked by CTRE as in previous years.
 - New item is a crash analysis on the CTRE website, reviewing whether they are work zone related or just in the work zone. These are updated every two weeks.

Update from Each Work Zone Council Group:

District Updates: Focus on work zone innovations or issues in the field.

D1: Not in attendance

D2: No update

D3: Issues with moving traffic to the shoulder without proper shoulder strengthening during some recent bridge work. This was a design issue, but we should have been more conservative in reinforcing/strengthening the shoulder. Had issues in both directions. We are not sure if this has made it back to design. D1 in Ankeny and D5 has also had issues. Adding this to field reviews is critical.

D4: No update

D5: Pilot car setups for single lane operations – worked with Dan & Clayton on this. This seems to be working well. Dan would like pictures sent to him.

D6: Not in attendance

IWZ - Tim

See above

Training - Dan Sprengeler

On hold due to COVID-19 but would like to pick this up again soon.

Keith Knapp at InTrans has a TSIP project to evaluate going on to evaluate our current training to see how we can update our training practices. More to come.

LCPT – Willy

Newest items– adding ramp information so there is more information at interchanges.

If anyone has ideas please bring them to Clayton, Dan or Willy.

Mitigation Team – Dan/Willy/Clayton

In the past we have gotten the list out in July and then maintenance projects are added. When this happens, we miss some projects that need TMPS per the FHWA. So, we have started checking the list every month.

Process Review - Dan/Clayton

Clayton has a new go pro to record videos of work zones for reviews.

FHWA pilot program for data driven reviews with Iowa.

Central Office:

Traffic & Safety- No update

Bridge –

Appreciate the conversation about the shoulder strengthening. Had issues in CB on I-80 as well. Sometimes we do a lot of research during design, and sometimes we do less based on cost/benefit and when to take risks. They are looking at the design manual now to discuss this and we should get some field representation for this group. Jim Webb or one of the RCEs in D5 could help for a field perspective.

Design – no update

TO – no update

C& M – looking at pavement markings, more to come.

Maintenance

Inventory of speed feedback was sent out to a few of the people to this group there were none on the FY20 program.

Local Systems

It is nice to be in the loop of what the DOT is doing and be able to bring these items back to our office.

MVE

With COVID-19 we are having staffing shortages, so we need as much advanced notice as possible when extra enforcement is needed. We have not been working a lot of extra enforcement this season since traffic volumes are down.

Work Zone Incident Updates - Clayton and Districts

2 fatal crashes

1 Des Moines with utility worker

1 west of Cedar Rapids

Henry County 4 lane NB and life flight was called. On July 10th

July 12th same work zone (patching) single vehicle county project the extended onto primary route.

Wapello County on Ottumwa a three vehicle July 10th

July 7th – roll over on 149 mm2 – drunk driver went through work zone and then went into the ditch. Workers were on site.

Adjourn

Future Meetings

October 15, 2020

Action Items

Actions Needed	Responsibility
Work Zone performance measures update at next Council meeting	Wes Musgrove
Share Speed Feedback deployment results with other districts and encourage statewide deployment for maintenance	Donna Matulac Brad Lauderman
Discuss purchase options for speed feedback signs	Bob Younie
Update draft PPM 500.19 and revise LCPT to include 4 min delay acceptance. Take to HDMT for concurrence.	Willy Sorenson
Draft district maps for allowable lane closure hours based on revised LCPT.	Willy Sorenson
Discuss adequate shoulder strength on bridge projects and include field inspection staff.	Jim Nelson
Traffic control for local projects that encroach on State ROW	Dan Sprengeler

