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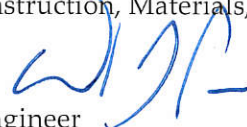
John R. Cooper  
TRANSPORTATION DIRECTOR

September 7, 2018

**Construction Information Memorandum No. 8 - 2018**

TO: Region Engineers

ATTN: Area Operations, Construction, Materials, and Local Transportation Engineers

FROM: Winston J. Powe, P.E.   
State Construction Engineer

RE: Proper Layout and Application of Striping, Markings, and Legends

The purpose of this CIM is to call attention to the need for appropriate Department personnel to review all applicable standard and special drawings, plan sheets, and specification requirements regarding the placement of striping, markings, and legends prior to allowing the Contractor to begin work on these items.

Construction and Maintenance Bureau staff members met recently to discuss concerns from striping subcontractors regarding corrections having to be made after their work was accomplished, along with additional work being requested after their crews had demobilized. As we do more night paving work, it is critical to pre-communicate so that we do not place errant stripe on our new pavement. Some specific issues that the industry is having involves lane drop markings, edge line adjacent to curb and gutter sections, shields on interstates, and bicycle symbols. While these situations are not entirely avoidable, we request that every effort be made by Project, District, and Area personnel to be satisfied and in agreement with the manner in which a subcontractor intends to accomplish his work prior to that work beginning. We have also reminded the subcontractors that they bear responsibility to give early notification (through the prime) of when they intend to arrive at the project site so Department personnel will have sufficient time to visit the site and review striping plans, drawings, etc.

Particularly noteworthy in this matter is the use of Google Earth imagery for re-striping purposes. Personnel should be reminded of CIM 5-2017 and the fact that existing striping, markings, and legends may no longer conform to current standards.

The Department is looking into ways to better denote or depict on the plans the layout and quantities for striping, legends and markings. This may be in the form of more detailed striping layout sheets, box sheets, or updates to standard and special drawings.

Please ensure your inspection personnel are familiar with these issues.

WJP/JLB/jlb

pc:	Mr. George Conner, PE	Mr. Stacey Glass, PE	Mr. Steve Walker, PE	FHWA
	ARBA	AAPA	ALBCA	ACIA
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JOHN R. COOPER  
TRANSPORTATION DIRECTOR

December 5, 2018

**MEMORANDUM**

TO: Region Engineers

ATTN: Region Pre-Construction & Area Operations, Construction, & Local Transportation Engineers

FROM: Winston J. Powe, P.E.   
State Construction Engineer

RE: Plan Needs for Traffic Striping, Dotted, Markings, and Legends  
Follow-up for CIM 8-2018

In general, plans for construction projects include Striping & Signage Sheets, but plans for resurfacing and other maintenance-type projects only include Box Sheets with a summary of striping items and quantities and no specific location information. It is these type projects that have posed the layout and application issues addressed in CIMs 5-2017 and 8-2018.

As a follow-up to CIM 8-2018, we have been reviewing various plans and details and communicating with industry representatives on how to better depict the layout and quantities for striping, markings, and legends on the plans. Since the Department is responsible for layout of No-Passing Zones, that relieves much of the need for Striping & Signage Sheets. However, the Department continues to have issues with the proper layout and application of Lane Drop Markings. Because of this, the impact it has on our striping "message" to the traveling public, and the problems that corrective measures can have on our new wearing surfaces, more information is needed in our plans for the location of these Markings. From our reviews and communication efforts, it appears the simplest means of doing this is including location and quantity information in Box Sheets like we do for other pay items. An example of such is attached. Please utilize this type of example in your future resurfacing plans. You may also include it for your plans for construction projects to summarize what is shown on the Striping & Signage Sheets.

In addition, one of the issues addressed in CIM 8-2018 for shields on the interstates and bicycle symbols needs additional emphasis and guidance. These markings, along with those for shared lanes and handicap pavement, are shown on Special Drawing No. TCM-703 (Sheet 2 of 2) Index 1049, and all are listed as "Specialty Traffic Control Markings". Item 703.03(c)3. of the Standard Specifications references the use of details in the Special Drawings or the plans, and Subarticle 703.05(b) lists the pay items for this work as 703H000 Specialty Traffic Control Markings. However, there has been conflict in some plans using the normal 703A items for Traffic Control Markings where they were supposed to use 703H000. Please remind your designers and project managers that these details are part of the plans by TCM-703 being included on the Index to Special and Standard Drawings Sheet in the front of the plan set. A project note that attempts to pay for these markings as part of the normal 703A Traffic Control Markings item conflicts with this Special Drawing, which is part of the plans. Thus, the plans are in conflict, and we will end up having to add Item 703H000 by supplemental agreement. Instead of having to do a change order, we need to ensure Item 703H000 is set up in the plans when these details are required.

With our traffic volumes steadily increasing each year on our highways, it is imperative that our traffic striping, markings, and legends be installed properly and consistently to send a uniform message. Since we are down to a limited number of striping contractors trying to cover the whole state, it is also imperative we communicate this uniform message in our plans and contracts so that we get the project striped correctly the first time and minimize delays, re-work, and change orders trying to determine what is required by the Special Drawings.

Please ensure that all personnel designing and managing your construction projects are familiar with this matter.

WJP

Attachment

pc: Mr. George Conner  
Mr. Stacey Glass  
Mr. Ed Phillips  
Mr. Clay McBrien  
ARBA  
ALBCA  
ACEA

Mr. Don Arkle  
Mr. Steve Walker  
Mr. Terry Robinson  
Mark Bartlett, FHWA  
AAPA  
ACIA  
CIM File

Plan Needs for Traffic Striping, Dotted, Markings, and Legends  
 Follow-up for CIM 8-2018  
 Example Box Sheet

LOCATION	REQUIRED TRAFFIC STRIPE						SPECIAL OR STANDARD DRAWINGS	REMARKS
	701A-227	701A-230	701A-239	701B-063	701B-207	701C-000		
	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	BROKEN WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	DOTTED, CLASS 2, TYPE A, TRAFFIC STRIPE (LANE DROP 10" WIDE)	DOTTED, CLASS 2, TYPE A, TRAFFIC STRIPE (5" WIDE)	BROKEN TEMPORARY TRAFFIC STRIPE	SOLID TEMPORARY TRAFFIC STRIPE	
	MILE	MILE	MILE	LIN FT	LIN FT	MILE	MILE	
I-65	26.16	26.16	51.77			103.54	104.64	
I-65 MP 9.1000-MP 11.050 NB				10296.00				Outside Aux. Lane Between Exit 9 & 11
I-65 MP 13.025-MP13.517 SB				2600.00				Outside Aux. Lane
Exit 11 NB On Ramp Accel Lane					1120.00			
Exit 13 SB On Ramp Accel Lane					1325.00			
RAMPS	3.17	3.17	0.03		183.00	0.07	12.66	
CROSSROADS	2.07	2.09		695.00	454.00		8.32	
TOTAL	32	32	52	13591	3082	104	126	