MDOT BRIDGE DECK OVERLAY CONSTRUCTION INSPECTION CHECKLIST

Date

Project No.

Control Section

Stru	ructure No. Structure Location:				
Contractor:			Concrete Supplier:		
Inspector:			Engineer:		
A.	<u>Pr</u>	ior to Hydroder	<u>nolition</u>	Initials	
•	Review Hydrodemolition Scarify bridge deck surfa	eer a copy of MD pH Control Plan ace as shown on	DEQ Groundwater Discharge Permit and Checklist		
B. <u>During Hydrodemolition</u>					
•	 Ensure contractor performing pH sampling, testing Ensure contractor neutralizing hydrodemolition runoff if necessary Ensure contractor submitting samples for laboratory testing Ensure contractor recording test results on the Hydrodemolition Log form No vacuum trucks running on deep hydro areas Contractor cleaning up debris Sound deck prior to second pass 				
C. <u>Silica Fume Modified Concrete (SFMC)</u>					
•	Concrete supplier and co	ontractor concret design(s) submitt	per subsection 701.03.F.1 te testing personnel identified ted, including aggregate correction concrete trial batch		
D.	Latex Modified Concre				
•	Calibrated mobile mixer Approved mix design for Approved materials for la	latex modified c	oncrete overlay mixture		

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E.	Prior to Pour		
	Contractor to submit for approval of equipment to be used to determine relative humidity and wind velocity at site per subsection 706.03.H.2 Ensure the contractor furnishes adequate fogging equipment that is on site and working properly Inspect forms and check for grade, straightness, tightness, and location Ensure epoxy coated steel reinforcement is properly stored and covered prior to placement to prevent damage from sunlight Inspect steel reinforcement, including bar chair location and spacing Verify bar size, quantity, location, spacing, clear cover laps, and ties of transverse, longitudinal and vertical steel reinforcement. Record quantities on Form 1138, Bridge Reinforcing Computations Repair epoxy coating resteel per subsection 706.03.E. 8. Verify product on the qualified product list per subsection 905.03. Record product on IDR Ensure the bulkheads for construction joints are in place, secure, and at the correct elevation. Check contractor's grades and verify during the dry run. Perform dry run per subsection 706.03.M.1 and record depth measurements on Form 1131, Bridge Decks Concrete Depth Measurement. Note locations. Ensure vibrators have rubber-coated heads per subsection 706.03.H.1 Ensure contractor furnishes a 10 foot straightedge per subsection 706.03.M.1 Ensure the burlap has been soaking a minimum of 12 hours before the pour, per subsection 706.03. N.b., and excess water has been removed. Ensure the equipment to determine relative humidity, temperature, and wind velocity is on site and working properly. Record evaporation rate on Form 1174A, Inspector's Report of Concrete Placed Ensure the bridge deck is free from debris per subsection 706.03.H.1 Wet the deck surface one hour before placing the overlay mixture. Ensure air temp and existing concrete deck are at least 40 degrees and rising Issue Form 1125, Permit to Place		
F.	During the Pour		
•	For latex modified concrete, brush the initial layer of mixture onto the wetted prepared surface Complete Form 1174A, Inspector's Report of Concrete Placed including Aggregate Correction Factor Ensure contractor is performing QC testing, including yield tests For silica fume, verify concrete delivery tickets match the concrete mix design Perform concrete QA testing Test silica fume modified concrete at the pump discharge and correlate to testing at the concrete truck, according to MTM 207 Record elapsed time interval on every delivery ticket between charging the mixe and the placement of the concrete. Sign the concrete delivery tickets. Vibrator with rubber coated heads being used within 15 minutes of placement. Ensure contractor does not over vibrate or over finish the concrete. Ensure the concrete does not freefall more than 6 inches above the resteel		

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F.	<u>During the Pour (continued)</u>	<u>Initials</u>
•	Ensure contractor checks deck tolerance with a 10 foot straightedge both longitudinally and transversely Ensure the contractor is fogging during placement of silica fume modified concrete Inspect texturing per subsection 706.03.M. Verify the wet cure (burlap, soaker hoses, polyethylene) is being applied at the appropriate time Verify the low temperature protection was applied as necessary per 706.03.J2.b	
G.	After the Deck Pour	
•	For silica fume modified concrete, verify the wet cure is maintained for seven days. Check deck to verify soaker hoses are working and covering the entire deck.	
•	For latex modified concrete, verify the wet cure is maintained for two days and two days dry. Check deck to verify soaker hoses are working.	
•	Ensure that contractor waits a minimum of 15 hours to strip bulkheads after completion of the pour.	
•	Inspect deck tolerance 1/8 inch in 10 foot with 10 foot straightedge prior to acceptance.	