

## INSPECTOR CHECKLIST: 601 DECK CONSTRUCTION

	Inspection Item	Yes	No	N/A	Remarks
<b>PRE-CONSTRUCTION</b>					
1	Has a Structural Concrete Pre-Pour Conference been held?				
2	Have the locations of maturity meters been determined?				
3	Has the Concrete Mix Design been submitted and approved?				
4	Has a pouring schedule/sequence been submitted and approved?				
5	Has the Contractor submitted a plan for hot/cold weather concrete placement?				
6	Have Scale and Weigher Checks been submitted and approved?				
7	Has a curing method been submitted and approved?				
8	Does the bridge deck layout match what is specified in the plans? Lengths, widths, thicknesses, skew, etc.?				
9	Does the rebar installed match what is specified in the plans? Size, spacing, type? Length and location of splices?				
10	Are chair heights correct? Do rebar clearances match plans? Have damaged bars been repaired or replaced? Are minimum tie percentages met?				
11	Have beam and girder surveys to verify elevations been completed and submitted to CDOT for review?				
12	If necessary, have hand and toe rails been installed to protect workers from falls and the traveling public?				
13	Have joints, bulk heads, and other bridge components been installed per plan? Is there a plan in place if emergency bulk heads are needed?				
14	Have forms been inspected?				
	• Unsuitable forms rejected?				
	• Forms are clean of dirt and debris?				
	• Chamfer strips are in place per plan?				
	• Form Release has been submitted, approved, and adequately applied?				
	• Blockouts for items such as conduits, drains, etc. have been installed and secured?				
	• Is adequate bracing installed to prevent bowing, blowouts, etc.				
	• If required, has approval for backform omission been submitted and approved?				
15	If using Precast Panel Deck Forms:				
	• Have drawings been submitted and approved?				
	• Have minimum extensions beyond the beam and vertical clearances between panels and beams been checked?				
	• Have haunch depths been checked and match the plans?				
	• Have surveys to check elevations been completed?				
16	If using Stay-In-Place (SIP) Forms:				
	• Have erection drawings been submitted and approved?				
	• Have forms been installed per plan?				
	• Have forms been attached, secured, and sealed properly?				

Inspection Item		Yes	No	N/A	Remarks
	• Have welding arcs been prevented from coming into contact with steel girder flanges?				
	• Have haunch depths been checked and match the plans?				
	• Have surveys to check elevations been completed?				
17	Has a dry run been performed and do rebar clearances and concrete depths match plans?				
18	Is the deck machine supported beyond the edge of deck?				
19	Has burlap been soaking for 12 hours prior to pour?				
<b>CONSTRUCTION</b>					
20	Does the concrete being used match what has been submitted and approved?				
21	Does the concrete ticket provide all required information per 601.06?				
22	Has the concrete been placed in the specified time limit?				
23	Does the concrete temperature at time of placement measure between 50 and 90 degrees F?				
24	Is concrete slump, air, and W/C ratio within range of submitted and approved mix design?				
25	Have concrete cylinders been made and have they been placed in proper cure environment?				
26	If water is added, has it been recorded and mixed per specifications?				
27	Are random clearance checks of rebar and depth checks of concrete being performed and these match the plans?				
28	Are the proper vibrators being used and are they adequately consolidating concrete?				
29	Is the concrete being placed per the approved schedule/sequence?				
30	Have maturity meters been installed in planned locations and are they protected from damage?				
31	Is the specified finish being applied in a uniform manner that provides a smooth surface with minimum ridges and voids?				
32	Submitted and approved curing method applied at specified rate?				
33	Is hand work being kept to a minimum?				
34	Is water being applied to surface at a minimum and being applied using approved fog spray?				
35	Have construction joints been installed in approved locations, only?				

Inspection Item		Yes	No	N/A	Remarks
<b>POST-CONSTRUCTION</b>					
36	Are curing blankets and burlap being protected and secured from being wind blown?				
37	Are maturity meters working and are the results within the specified limits? If not, are corrective actions being discussed?				
38	Has concrete obtained required strength to remove forms?				
39	Are concrete depths within tolerance of 601.18?				
40	Has smoothness been tested and meet specified requirements?				
<p>PLEASE NOTE THAT THE INTENT OF THESE CONSTRUCTION QUALITY ASSURANCE OBSERVATION CHECKLISTS ARE TO ASK QUESTIONS REGARDING OBSERVATION DUTIES THAT WILL PROMPT THE CONSTRUCTION OBSERVERS TO RESEARCH SOURCE DOCUMENTS TO DETERMINE ANSWERS. THEY DO NOT SERVE AS A REPLACEMENT TO REVIEWING AND KNOWING ALL SPECIFICATIONS AND SOURCE DOCUMENTS. SOURCE DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO: ATSSA QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES; M&amp;S STANDARDS; CONSTRUCTION BULLETINS; CONSTRUCTION MANUAL; SURVEY MANUAL; EROSION CONTROL MANUAL; HMA PAVING HANDBOOK; MUTCD; MATERIALS MANUAL; MATERIALS BULLETINS; PROJECT PLANS; STANDARD SPECIFICATIONS; PROJECT SPECIAL PROVISIONS; PROJECT STAND SPECIAL PROVISIONS; ETC. THE OBSERVER SHOULD ALSO CONSULT WITH THE CONSTRUCTION QUALITY ASSURANCE MANAGER AND OTHER EXPERIENCED PERSONNEL IF FURTHER CLARIFICATION IS REQUIRED.</p>					