

## INSPECTOR CHECKLIST: 503 - DRILLED SHAFTS

Inspection Item		Yes	No	N/A	Remarks
<b>PRE-CONSTRUCTION</b>					
1	Safety Critical Plan submitted and approved?				
2	Has a concrete mix design been submitted and approved?				
3	Have submittals for Experience and Personnel, Drilled Shaft Installation Plan, and Slurry Technical Assistance been submitted and approved per 503.02?				
4	Has a Pre-Construction Meeting been held per 503.03?				
5	Reviewed and familiar with rebar and concrete materials, shaft locations, depths, diameters, elevations, etc.?				
6	Reviewed and familiar with boring logs and geological reports? Familiar with appearance and type of material anticipated at drilling depths?				
7	Have existing utilities been located? Marked? Deenergized? Protected? Conflicts resolved? Have equipment offsets from utilities been discussed?				
8	Has location, centerline, diameter, and elevation of shaft been staked and checked?				
9	Is fall protection required due to depth of shaft?				
<b>CONSTRUCTION</b>					
10	Do materials being used (casings, rebar, concrete, slurry, etc.) match what was submitted and approved?				
11	Does inspector have tools required? Tape measure, mirror, plumb bob, etc.? Does inspector have proper PPE, including fall protection, if required?				
12	Has rebar been inspected per 503.17? Correct bar sizing, spacing, and fastening? Correct height and diameter? Have all intersections been tied? Have all minimum clearances been checked?				
13	Is rebar supported off of the ground? Free of excessive rust, mud, oils, solvents, and/or other deleterious materials?				
14	If needed, are casings watertight and clean?				
15	Was drilling performed as a continuous operation?				
16	Has the shaft been drilled to the proper elevation with minimum embedment obtained and documented.				
17	Is the shaft clean and free of debris and groundwater prior to concrete placement?				
18	Has the rebar been installed immediately prior to concrete placement? If concrete has not been poured immediately, is rebar and shaft protected from debris and damage? Is open shaft covered to prevent fall hazard?				
19	If needed, has slurry been sampled and tested per 503.15?				
20	Has concrete been placed within 4 hours of drilling? Was concrete placed continuously? No joints allowed unless approved by EOR.				
21	Have Crosshole Sonic Logging (CSL) tubes been installed, filled, and capped?				

Inspection Item		Yes	No	N/A	Remarks
22	During drilling, have any of the following been observed: Caving? Obstructions? Rebar displacement?				
23	During drilling, have conditions of excavated material, groundwater, and adjacent shafts been monitored?				
24	Has CDOT Form 1333 been completed?				
<b>POST-CONSTRUCTION</b>					
25	Are drilled shafts within tolerances outlined in 503.19?				
26	Has integrity testing been performed per 503.20?				
27	Has projecting steel been adequately cleaned?				

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; MS 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.