Blue Springs, Missouri
Public Works Department

SECTION 2200 – PAVING

CITY OF BLUE SPRINGS, MISSOURI
CONSTRUCTION SPECIFICATIONS

The City of Blue Springs hereby adopts Section 2200 of the Kansas City Metropolitan Chapter of APWA Construction and Material Specifications, the latest edition. The following additions, deletions and/or revisions are adopted as a part of Section 2200 for use within the City of Blue Springs. Text in bold italics indicates revisions or additions to the APWA standard.

Section 2202 Subgrade Stabilization

2202.3 - Materials

Add the following:

"E. Aggregate: MoDOT Type 5 aggregate may be used for untreated aggregate layer in lieu of the material specified in this paragraph and shall meet the requirements as shown on the City of Blue Springs Standard Details STR-01, STR-02, STR-03, STR-04, and STR-05."

2202.4 – Composition

Delete the first (1st) paragraph of 2202.4 and replace with the following:

"Fly ash shall be applied at a rate determined by laboratory testing using the materials from the site and the specific fly ash to be supplied unless otherwise designated by the Contract Documents. Testing shall be the responsibility of the Contractor and is subsidiary to other items. The minimum application rate shall be 15% by weight unless testing indicates otherwise."

Section 2203 Aggregate Base Course

2203.3.A – Materials

Add the following:

"MoDOT Type 5 aggregate can be used for untreated aggregate layer in lieu of the material specified in this paragraph."

2203.4.C.6 – Plant Mix Bituminous Drainable Base

Delete paragraph 2203.4.C.6 and replace with the following:

"These materials shall be placed, handled, hauled, and accepted based on the requirements of Section 2205 and in accordance with the following:

- ***a. Contamination of the finished base material that affects the drainage capability of the product shall not be permitted. Any areas determined to be contaminated shall be completely removed without disturbing the adjacent or underlying material and replaced at contractor's expense.***
- ***b. Rutting or other displacement of the permeable base or the underlying base will not be permitted. If displacement occurs, the material shall be completely removed without disturbing the adjacent or underlying material and shall be replaced at the contractor's expense.***
- ***c. A minimum of three passes of a 5 to 10 ton steel wheel roller shall be made, compacting the material until no further displacement is noted. Compaction shall begin as soon after spreading the mixture as the mixture is able to bear the weight of the roller without undue displacement and shall be completed before the temperature of the mixture drops below 100 F. The compacted thickness of a single lift shall be a maximum of 4 inches."***

Section 2204 Prime and Tack Coat

2204.3.A Materials

Delete table 2204.3.A and replace with the following:

Material to be Treated	Application Usage	Type of Emulsion of Grade of Cutback	Application Rate (Gal/SY) (L/SM)	Application Temperature °F (°C)	Cure Time at 70°F (21°C)
Existing Asphalt of Concrete Surface	Tack	RC-70	0.05-0.10 Gal/SY (0.23-0.46L/SM)	150-225 (65-107)	1-6 hrs
	Tack	SS-1 SS-1h SS-1HP CSS-1 CSS-1h	0.05-0.15 Gal/SY (0.23-0.69 L/SM)	70-160 (22.5-42)	1-3 hrs
Treated Base (lime, flyash, cement)	Prime	MC-30 MC-70	0.1-0.3 Gal/SY (0.46-1.38 L/SM)	85-120 (29-49)	12-24 hrs
	Prime	SS-1 SS-1h SS-1HP CSS-1 CSS-1h	0.1-0.3 Gal/SY/in (0.46-1.38 L/SM/mm)	70-160 (20-70)	24-48 hrs

Untreated Aggregate Base w/Fines	Prime	MC-30 MC-70	0.1-0.3 Gal/SY (0.46-1.38 L/SM)	85-120 (29-49)	12-24 hrs
Untreated Aggregate Base w/o Fines	Prime	MC-250	0.2-0.5 Gal/SY (0.92-2.30 L/SM)	85-120 (29-49)	12-24 hrs
Untreated Aggregate Base	Prime	SS-1 SS-1h SS-1HP CSS-1 CSS-1H	0.1—0.3 Gal/SY/in (0.46-1.38 L/SM/mm)	70-160 (20-70)	24-48 hrs
	Prime	EAP PAE, or PEP	0.1-0.3 Gal/SY (0.46-1.38 L/SM)	70-160 (20-70)	12-24 hrs

Section 2205 Asphaltic Concrete Surface and Base

2205.3.A – Asphalt

Add the following table:

Asphalt location	*Mix Type*	*Recycled Mix Allowed?*
Industrial/Arterial surface	***5 or 6***	***No***
Base courses greater than 2 inches below the surface on industrial and arterial streets	***5***	***Yes***
Local and Collector surface	***5 or 6***	***No***
Base courses greater than 2 inches below the surface on local and collector streets	***5***	***Yes***

2205.6 – Transportation of Mix

Delete the third (3rd) paragraph of section 2205.6 and replace with the following:

"Haul trucks shall be limited to a max load of twenty-five (25) tons. Haul trucks shall be provided with covers of sufficient size and weight to completely cover the truck bed to protect the load and to prevent cooling of the upper surface. Failure to have the load completely covered shall be sufficient cause for rejection of the entire load. The load shall remain covered until the truck is next in line to be unloaded. In no case shall a load remain uncovered for more than 10 minutes before starting to use the load. If for any reason there is a delay in completely using a load, the remaining part of the load shall be recovered until it can be used. It shall be the responsibility of the Contractor to inform all truck drivers of these provisions before starting work."

2205.9.C Spreading and Finishing

Add the following:

"The maximum compacted lift thickness for the surface coarse shall be two inches (2.00")"

2205.9.D.4 – Longitudinal Joints

Delete the second (2nd) paragraph of section 2205.9.D.4 and replace with the following:

"When paving against existing concrete pavement, curb and gutter or other structure, the edge to be joined shall be tack coated. The elevation of the screed above the surface of the first mat should be equal to the amount of roll-down expected during compaction of the new mat. Where drainage of stormwater will flow from the new mat onto abutting curb and gutter, add an additional ⅛" - ¼" of thickness to the new mat. ADA ramp areas shall be flush with the curb."

Section 2207 Cold Milling

2207.2.A – Machine

Delete paragraph 2207.2.A and replace with the following:

"Machine: The cold milling machine shall be self-propelled and able to automatically control grade and slope of the milled surface. Operate the automatic grade and slope control from a travelling stringline a minimum of 30 feet long, attached the milling machine and operating parallel to the direction of travel. Other methods of positive grade control may be used if approved by the Engineer. The machine shall have the means of milling without damaging the remaining pavement (torn, gouged, shoved, broken, etc.). The machine shall be capable of blading the cuttings into a single windrow or depositing them directly into a truck. Only a track type milling machine shall be used (no rubber tire milling machines are allowed)."

2207.3.C – Cleanup

Delete paragraph 2207.3.C and replace with the following:

"Cleanup: All loose asphalt and debris shall be removed from the street surface and curb and gutter on the same day that milling operations occur. Any material and debris that adheres to the curb and gutter shall be removed."

Section 2208 Portland Cement Concrete Pavement

2208.1 – Scope

Add the following:

"Portland cement concrete pavement shall only be used with approval of the Director of Public Works."

2208.3.A – Concrete

Delete paragraph 2208.3.A including all subsections and replace with the following:

"All concrete materials for paving curb and gutter, sidewalks, paths, commercial driveways and other pavements in the Right-of-Way shall conform to the KCMMB specifications."

2208.6 – Repairing Defects

Delete paragraph 2208.6, including table, and replace with the following:

"Any damaged concrete panel, or panels, with random cracking shall be removed and replaced at the Contractor's expense. The minimum replacement area shall be one full panel. Any alternate repair methods shall be approved by the Owner."