

2019 TECHNICAL SPECIFICATIONS
UPDATES
Summary of Changes

TESTING FREQUENCY CHART

1. Added add'l to the Bituminous Mixtures frequency to clarify that that tests shall be taken at 200 tons and then at 1,200 tons.

S-306 PAVEMENT PATCHING

1. Revised Section B to the following: *ASPHALTIC CONCRETE PATCHING: The bituminous mixture shall be prepared in accordance with applicable requirements specified in the section of this specification titled Asphaltic Concrete **(KDOT BM-2 is only allowed when specified in the Plans or Contract or when approved by the Engineer)**.*

S-500 BIORETENTION FACILITY

2. Added the following to Section E.1: *After placing the underdrain and aggregate and before the BSM, the bottom of the excavation shall be roto-tilled or **scarified** to a minimum depth of 6 inches to alleviate any compaction of the facility bottom.*
3. Added new E.3: **Storage and mixing of bioretention soil mix: bioretention soil mix that is delivered to the site to be stockpiled shall be stored on a clean impervious surface. If any of the of the adjacent land drains towards the stockpile, it shall be protected from runoff with appropriate erosion control measures. If the soil is to be mixed on site, then the components shall be stored as described above. In the event that there is no impervious location for storage and mixing, care shall be taken not to contaminate the soil components with the underlying native soil.**

S-506 GEOCELLULAR CONFINEMENT

4. Deleted entire section.

S-712 NATIVE SEEDING

5. Revised A.1 to the following: *...Subcontractor shall make 2 passes in the same direction to place rows 3" to 5" apart. Broadcasting and hand raking to a depth of **1/8** inch will only be used on areas where it is impossible to operate a seed drill..... Areas with greater than a 6:1 slope will require double-sided **biodegradable** straw blanket or approved equal.....*

6. Revised A.5 to the following: **Seeding shall be conducted as a late fall dormant seeding or in early spring as described below. The Engineer reserves the right to delay the seeding of any seeds due to weather or soil conditions or for other causes.**
7. Revised A.9 to the following: *...After the seed is placed, it shall be watered at a minimum rate of **1 inch** per week (**60** gallons per 10 square yards) in five or six applications per week beginning immediately after the **seed** is placed,...*

S-715 SEEDING

8. Revised A.8 to the following: *.....Areas greater than a 6:1 slope will require a double-sided **biodegradable** straw blanket or approved equal.*

S-716 SODDING

9. Replaced Section H. with the following: **Bluegrass and Fescue sod may be planted during the periods of March 1 to May 15 and September 1 to November 15. Bluegrass and Fescue sod may be planted during the period, November 15 to March 1, S-173 when the soil and sod is workable and with the approval of the Engineer. If sod is planted between November 15 and March 1, the Contractor will maintain the sod until 20 days after the beginning of the spring sodding season. The Engineer reserves the right to delay the sodding of all types of sod or to vary the permissible sodding seasons, due to weather, soil conditions, or for other causes. Zoysia sod may be planted during the period April 1 to October 15.**

S-803 PERMANENT SIGNING

10. Added the following to Section A.9: *The PVC sleeve shall extend through the full thickness of the median nose **and be filled with gravel meeting the requirements of Table 1.***

TABLE 1						
% RETAINED-SQUARE MESH SIEVES						
	1"	3/4"	1/2"	3/8"	No. 4	No. 8
BEDDING MATERIAL	0	0-20	-	40-70	75-100	95-100

11. Inserted the following to Method of Measurement: **For sign assemblies, signs shall be measured on a per each basis, not per sign assembly basis.**

S-804 STREET LIGHTING

12. Revised Section A.11 to the following: *....The driver shall be capable of providing **less than 1000mA** to the LED chips and shall be dimmable. The fixture shall have a built-in surge protection device (SPD) rated 10kV/5kA. The SPD shall have a fuse that protects the fixture by disconnecting the luminaire from the power at the end of life. **It shall have an indicator light that is lit when the SPD is fully functional and dark when it needs to be replaced.** The fixture*

shall have an ANSI 7 pin photocell receptacle and a shorting cap. The distribution shall be a roadway Type II. A label **with an approximate size of 3"X3"** shall be affixed to the underside of the luminaire housing to clearly indicate the type designation as described above.....

13. Revised Section A. 14 to the following: Pole and bracket cable above hand hole in pole to luminaire(s) shall be No. 14 AWG 2-conductor stranded copper conforming to IMSA Specification 19-1. **Green wire shall be installed from the luminaire and wired to the ground lug in the pole.**

S-805 TRAFFIC CONTROL

14. Added the following to the end of Section A.3: **These message boards shall be installed at each point of closure. Messages displayed shall be approved by the Engineer prior to use.**
15. Deleted the following from Section A.33: **For daytime work, the flagger's vest, shirt or jacket shall be orange, yellow, yellow-green or a fluorescent version of these colors. For nighttime work, similar outside garments shall be retroreflective.** Replaced with: **Flaggers shall wear a minimum of ANSI 107 Class 2 attire for daytime work and ANSI 107 Class 3 attire for nighttime work.**

S-1101 BORING

16. Revised Section B to the following:.... "Moles" and other equipment which displaces the soil, but does not remove the soil from the hole, **shall only be permitted outside of the roadway.**