

**KANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION TO THE  
STANDARD SPECIFICATIONS, EDITION 2015**

Delete SECTION 1907 and replace with the following:

**SECTION 1907**

**PLASTIC PIPE FOR UNDERDRAINS, BASEDRAINS, OUTLETS AND DRAIN TILE**

**1907.1 DESCRIPTION**

This specification covers polyvinyl chloride (PVC) and polyethylene (PE) pipe for use in underdrains and basedrains, PVC pipe for use in outlet installations, and PE for use in drain tile.

**1907.2 REQUIREMENTS**

**a. Underdrains and Basedrains.** Provide perforated pipe and fittings that comply with the following. The Contract Documents will specify the size and locations where the 100 psi pipe stiffness product must be used.

(1) PVC that complies with ASTM F 891, Schedule 40 or Sewer and Drain Series PS 100. The minimum pipe stiffness required is 100 psi, at 5% deflection.

(2) PVC that complies with ASTM F 949, AASHTO M 278 Type SP, or AASHTO M 304. The minimum pipe stiffness is 46 psi at 5% deflection.

(3) PE that complies with AASHTO M 252, Type SP. The minimum pipe stiffness is 50 psi at 5% deflection, tested with perforations.

**b. Outlet Pipe.** Provide a smooth walled PVC Schedule 40 or Sewer and Drain Series PS 100 pipe in the diameter shown in the Contract Documents that complies with ASTM F 891. The minimum pipe stiffness required is 100 psi, at 5% deflection.

**c. Drain Tile.** Provide perforated PE drain tile and fittings in the diameter shown in the Contract Documents that complies with AASHTO M 252 or M 294 for perforated PE pipe.

**1907.3 TEST METHODS**

Test pipe supplied for this specification according to the procedures referenced and outlined in AASHTO M 252, M 278, M 294 and M 304; and ASTM F 891 and F 949.

**1907.4 PREQUALIFICATION**

None Required.

**1907.5 BASIS OF ACCEPTANCE**

Visual inspection for conditions, dimensional requirements and product markings. ASTM F 891 product markings must include "Schedule 40 Series", or "PS 100" and "Sewer and Drain Series". When used in underdrain and basedrain installations, AASHTO M 252 and M 278 pipe also requires visual inspection for existence of perforated smooth inner wall corresponding to Type SP.