

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2007**

Add a new SECTION to DIVISION 800:

GEOMEMBRANE

1.0 DESCRIPTION

Place geomembrane to form an impermeable barrier at the locations designated in the Contract Documents.

BID ITEM

Geomembrane

UNITS

Square Yard

Note: If this bid item is not included in the Contract Documents, this work is subsidiary to other items in the contract.

2.0 MATERIALS

Provide either a polypropylene geomembrane or a polyethylene geomembrane that has these minimum minimum average roll values (MARV) in **TABLE 1**.

TABLE 1: GEOMEMBRANE MINIMUM AVERAGE ROLL VALUES		
Type of Geomembrane: Property	Test Method	Requirement
Polypropylene:		
Thickness		30 mils
Puncture Resistance	ASTM D 4833	40 lbs.
Tensile Strength	ASTM D 638	78 lbs./in.
Polyethylene:		
Thickness		30 mils
Tensile Yield Strength	ASTM D 638	78 lbs./in.
Puncture Resistance	FTMS 101C, Method 2065	45 lbs.
Tear Resistance	ASTM D 1004	24 lbs.

The Engineer will accept the geomembrane based on the receipt and approval of a Type D Certification, **SECTION 2600**.

Provide cushioning material (sand) that complies with the requirements of FA-A or FA-B, **SECTION 1100**.

3.0 CONSTRUCTION REQUIREMENTS

Do not remove the geomembrane from its package and expose it to sunlight or the elements more than 10 days before it is placed and covered.

Place the geomembrane as shown in the Contract Documents, with the longitudinal axis of the roll perpendicular to the centerline of the roadway. Overlap the geomembrane with a minimum of 24 inches at the joints, with the uphill layer placed on top of the downhill layer of geomembrane.

If the geomembrane is damaged by tears, punctures, or contamination from hydrocarbon spill, do not patch the damaged areas, replace the entire section of the geomembrane.

Place the cushioning material (sand) in a manner that does not puncture or tear the geomembrane.

4.0 MEASUREMENT AND PAYMENT

The Engineer will measure the geomembrane by the square yard. Quantities shown in the Contract Documents are based on the width of select granular backfill plus 6 feet for wrapping.

Payment for "Geomembrane" at the contract unit price is full compensation for the specified work.

When the bid item is not included in the Contract Documents, Geomembrane will not be measured for payment, but will be subsidiary to other bid items in the contract.

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