



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

## Design Memorandum No. 17-18 Technical Advisory

August 7, 2017

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/Athar Khan  
Athar Khan  
Manager, Office of Geotechnical Services  
Pavement Engineering Division

**SUBJECT:** Use of Geotextile in Geotechnical Applications

**EFFECTIVE:** Lettings on or After September 1, 2017

The 2018 *Standard Specifications* include revisions to section 918, Geosynthetic Materials (previously Soil Fabrics). Section 918 now includes Geotextile, Geomembrane, Geocell Confinement Systems, and Geogrid and further subdivides these products by type.

The geotechnical engineer will provide the recommendation for all geosynthetic material types except for Geotextile for Pavement, which is used for subbase applications. The Office of Pavement Engineering will provide the recommendation for Geotextile for Pavement as part of the approved pavement design, where required.

1. The geotextile type will be identified in geotechnical reports completed after May 2017.
2. For geotechnical reports completed prior to May 2017, designers should contact the Office of Geotechnical Services Manager, Athar Khan, at (317) 610-7251 ext.219 or via email at [ATKhan@indot.in.gov](mailto:ATKhan@indot.in.gov) for specific geotextile type recommendations.
3. For projects that do not require a geotechnical report, but include geotextiles, designers should contact the Office of Geotechnical Services, Nayyar Siddiki at (317) 610-7251 or via email at [NSiddiki@indot.in.gov](mailto:NSiddiki@indot.in.gov) for the specific geotextile type recommendations. The designer should provide the contract number, Des. number, and the intended use. For example rip rap for slope protection or erosion control. For underdrains, provide the underdrain depth.

New pay items created for each type are shown below.

[P:\Structural Services\Design Memos\SIGNED\2017\17-18 ta Geotextile

**Lettings On or After September 1, 2017 Letting**

<b>Pay Item Number</b>	<b>Pay Item Description</b>	<b>Units</b>
616-12246	GEOTEXTILE FOR RIPRAP TYPE 1A	SYS
616-12247	GEOTEXTILE FOR RIPRAP TYPE 1B	SYS
616-12248	GEOTEXTILE FOR RIPRAP TYPE 2A	SYS
616-12249	GEOTEXTILE FOR RIPRAP TYPE 2B	SYS
616-12251	GEOTEXTILE FOR RIPRAP TYPE 3	SYS
718-12305	GEOTEXTILE FOR UNDERDRAIN TYPE 1A	SYS
718-12306	GEOTEXTILE FOR UNDERDRAIN TYPE 1B	SYS
718-12307	GEOTEXTILE FOR UNDERDRAIN TYPE 2A	SYS
718-12308	GEOTEXTILE FOR UNDERDRAIN TYPE 2B	SYS
718-12309	GEOTEXTILE FOR UNDERDRAIN TYPE 3	SYS
214-12236	GEOTEXTILE FOR PAVEMENT TYPE 1A	SYS
214-12237	GEOTEXTILE FOR PAVEMENT TYPE 1B	SYS
214-12243	GEOTEXTILE FOR SUBGRADE TYPE 2A	SYS
214-12244	GEOTEXTILE FOR SUBGRADE TYPE 2B	SYS
214-07202	GEOGRID, TYPE IA	SYS
214-07203	GEOGRID, TYPE II	SYS
214-11796	GEOGRID, TYPE IB	SYS
214-11808	GEOGRID, TYPE III	SYS
616-09395	GEOMEMBRANE	SYS