

TRANSMITTAL MEMORANDUM 20-01

To: Division of Structural Design Staff  
Design Consultants  
KYTC Staff

From: Bart Asher  
Director; Division of Structural Design

Date: August 31, 2020

Subject: KYTC Division of Structural Design  
Geotextile Fabric

**Geotextile Fabric (Listed in 2019 KYTC Standard Specifications)**

Effective with this memorandum, designs utilizing geotextile fabrics shall incorporate nomenclature reflected in Section 843 of KYTC 2019 Standard Specifications. Section 843 outlines the selection of geotextile fabrics by application and AASHTO M288 Class rather than “Type” as used in previous KYTC Standard Specifications.

The Division of Structural Design, Geotechnical Branch has revised special notes, common plan notes, and detail sheets to reflect Section 843 of the 2019 KYTC Standard Specifications. Unless design conditions warrant other considerations, revised callouts are as outlined below:

- Application: Stabilize for pavement subgrade.  
Use: **Fabric-Geotextile Class 1 (Stabilization)** for quarry rock or rock from roadway excavation  
This previously would have been: Type I or Type IV
- Application: Fabric beneath channel lining and slope protection.  
Use: **Fabric-Geotextile Class 1 (Slope Protection)**  
This previously would have been: Type I
- Application: Fabric used to protect granular material from infiltration of fines. Example applications include interface of structure granular backfill and natural soils or separating granular material for mechanical stabilization at the base of an embankment.  
Use: **Fabric-Geotextile Class 2 (Separation)**  
This previously would have been: Type IV
- Application: Fabric used to provide a filtration barrier as part of a drainage system.  
Use: **Fabric-Geotextile Class 2 (Subsurface Drainage)**  
This previously would have been: Type IV or Type II

The Division of Materials has provided a listing for Class 1 and Class 2 fabrics on its updated LAM (List of Approved Materials). The Division of Construction has provided the following new bid items to address the 2019 nomenclature:

08	FABRIC-GEOTEXTILE CLASS 1	02602	SQYD	214	INCI	N
08	FABRIC-GEOTEXTILE CLASS 2	02603	SQYD	214	INCI	N

**Ground Enhancing, High Strength Geotextile Fabric (not Listed in 2019 KYTC Standard Specifications)**

The 2019 Standard Specifications Book does not address Geotextile Fabrics used for high-strength applications / ground enhancement. These are applications for which “Type V” had previously been required. Our practice going forward will be to call for Class 1A fabrics to be used in these situations. Information regarding appropriate materials and placement will be provided by project specific special note and plan call outs will be as follows:

- Application: Ground enhancing stabilization for which geotextile fabric tensile strength is mobilized for support.  
Use: **Fabric-Geotextile Class 1A (Stabilization)**  
This previously would have been: Type V

Appropriate geotextile fabric for this application will be as outlined in AASHTO M288. These fabrics will be accepted by certification and verification that results meet AASHTO M288 Class 1A requirements along with any additional special note requirements. The Division of Construction has provided the following bid item for Class 1A fabrics:

08	FABRIC-GEOTEXTILE CLASS 1A	02604	SQYD	214	INCI	N
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BA/MLC