MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**GEOSYNTHETIC CLAY LINER**

BAY:BWS 1 of 1 APPR:DMG:DBP:03-18-21

**a. Description.** This work consists of excavating a trench of sufficient width to install a geosynthetic clay liner to prevent the lateral movement of water on the site. Complete this work in accordance with the standard specifications, this special provision, as shown on the plans and as directed by the Engineer.

**b. Materials.** Furnish reinforced geosynthetic clay liner consisting of a layer of sodium bentonite encapsulated between two geotextiles needle punched together. Provide an integrated matrix of bentonite and needle punched geotextile from one of the following sources or approved equal:

Bentomat Bentoliner

Cetco Lining Technologies GSE Environmental, LLC

1500 West Shure Drive, 5th Floor 19103 Gundle Road

Arlington Heights, IL 60004 Houston TX, 77073

1-800-527-9948 1-800-435-2008

**c. Construction.** Excavate a continuous trench approximately one foot wide and six feet deep at the locations shown on the plans. Dewater as necessary to conduct the work in dry conditions. After completion of the trench excavation, place the geosynthetic clay liner in the trench in accordance with the details shown on plans. Cut the geosynthetic clay liner to a nominal 7.5 foot width prior to installation and place in the trench vertically. Lap excess over the top of the trench and temporarily anchor to the berm to ensure the geosynthetic clay liner does not collapse during backfilling. Join liner ends together as shown on the plans.

Utilize 48 inch by 48 inch sections of clay liner at the upstream anti-seep collar of the water level control structure and attach to the anti-seep collar as shown on the plans. Backfill the trench using on-site excavated material that is free of organic content and compact using a method approved by the Engineer to the extent necessary to prevent settlement.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

**Pay Item Pay Unit**

Geosynthetic Clay Liner Foot

**Geosynthetic Clay Liner** will be measured by the foot of trench excavated as detailed herein and includes any dewatering that may be necessary. There will be no allowance for waste, overlaps or cuts.