Delete SECTION 843 and replace with the following:

SECTION 843

FLOWABLE FILL

843.1 DESCRIPTION
Backfill the designated structures or excavations with flowable fill.

<table>
<thead>
<tr>
<th>BID ITEM</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flowable Fill (⋆)</td>
<td>Cubic Yard</td>
</tr>
</tbody>
</table>

*Low Strength or High Strength

843.2 MATERIALS

a. General. Provide materials that comply with the applicable requirements.
   Fine Aggregate ..................................................DIVISION 1100
   Cement and Fly Ash (approved for stabilization & cold recycle) ..........DIVISION 2000
   Water ........................................................................DIVISION 2400

   The Engineer will approve the use of admixtures to achieve flowability and acceptable set time, based on performance.

b. Mix Design. Design a flowable fill mixture that possesses adequate flow characteristics to fill all voids, and complies with the compressive strength and unit weight requirements shown in TABLE 843-1.

<table>
<thead>
<tr>
<th>TABLE 843-1: REQUIREMENTS FOR FLOWABLE FILL MIXTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>7 Day Compressive Strength (minimum)</td>
</tr>
<tr>
<td>28 Day Compressive Strength</td>
</tr>
<tr>
<td>Unit Weight (maximum)</td>
</tr>
</tbody>
</table>

   Obtain approval from the District Materials Engineer for the job mixture. Supply 28-day compressive strength information for low-strength mixtures, or 7 and 28-day compressive strength information for high-strength mixtures, along with the mix design.

c. KDOT Assurance and Acceptance. The Engineer will make test cylinders for each 100 cubic yards of flowable fill placed, and whenever the mixture is changed. The cylinders will be made and tested according to DIVISION 2500.
   - For the low-strength mixture, 2 cylinders will be made. The 1<sup>st</sup> cylinder will be tested on the 28<sup>th</sup> day. The 2<sup>nd</sup> cylinder will be held in reserve to verify any questionable cylinder breaks.
   - For the high-strength mixture, 3 cylinders will be made. The 1<sup>st</sup> cylinder will be tested on the 7<sup>th</sup> day. The 2<sup>nd</sup> cylinder will be laboratory cured and tested on the 28<sup>th</sup> day. The 3<sup>rd</sup> cylinder will be held in reserve to verify any questionable cylinder breaks.
   - For the low-strength mixture, the Engineer will test the unit weight a minimum of every 50 cubic yards of flowable fill placed.
   - The Engineer will accept the flowable fill based on the results of the compressive strength for both low-strength and high-strength mixtures, unit weight tests for low-strength mixtures, and visual inspection of the mixture placed on the project.
843.3 CONSTRUCTION REQUIREMENTS
   Place the flowable fill in the excavation so all voids around the structure or in the excavation are filled.
   Place the flowable fill around structures in lifts preventing the buildup of excess hydrostatic pressure.
   Observe the weather limitations specified in **DIVISION 400** when placing the flowable fill.

843.4 MEASUREMENT AND PAYMENT
   The Engineer will measure flowable fill placed in the specified locations by the cubic yard.
   Payment for "Flowable Fill" at the contract unit price is full compensation for the specified work.

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Aug-19 Letting