Certified Testing Services, Inc.
419 W. 6th Street • P.O. Box 1193 • Sioux City, Iowa 51102 • Phone (712) 252-5132

March 19, 2020

E-ZBar
32421 West Loop Road
Sioux City, IA 51108
Attn: Mr. Michael Rush

CTS Job No. 12411
Report No. 2

Mr. Rush,

Per your request, CTS has performed aggregate flow test of E-ZBar plastic concrete reinforcing steel supports in accordance with the State of Ohio Department of Transportation Supplement 1125 (Testing and Acceptance of Plastic Supports for Reinforcing Steel). The aggregate flow was requested to determine compliance with the above State of Ohio Department of Transportation Supplement 1125.

The aggregate flow test stated above was performed on February 27, 2020. The procedures followed for the aggregate flow test consisted of: State of Ohio Department of Transportation Supplement 1125 Section 1125.04, ASTM C39, ASTM C143, ASTM C231, ASTM 1064, ASTM C31, and ASTM C172.

The concrete mix identification used in the aggregate flow test consisted of C-4QWR-C20. Plastic state concrete property results included: entrained air content of 7.0%, slump of $3\frac{3}{4}$", and a concrete temperature of 70°F. After plastic state testing of concrete was performed, concrete was placed and consolidated in the form containing: reinforcing steel, plastic coil rod, plastic side-form spacers, and saw cut locations provided preassembled by Mr. Michael Rush (Fig. 1).

Per section 1125.04 of the State of Ohio Department of Ohio Transportation Supplement 1125, the concrete was allowed to cure and then saw cut, in accordance with Mr. Michael Rush's saw cut layout. Figures 2-3 are provided for review of visual inspection of concrete consolidation. Thank you for the opportunity to be of service to you. If there are any questions, please do not hesitate to contact us.

Sincerely,

CERTIFIED TESTING SERVICES

Jake Lehmann
Senior Technician

Matthew R. Dailey, PE IA 19700
Geotechnical Engineer

Fig. 1: Above show the aggregate flow test form preassembled by Mr. Michael Rush

Fig. 2: Section of consolidation of concrete around side form spacer assembly using plastic coil rod.

Fig. 3: Section of consolidation of concrete around side form spacer assembly using metal coil rod and plastic end caps.