MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**DECORATIVE CONCRETE SIDEWALK, SPECIAL, DETROIT RIVERFRONT**

DET:SLN 1 of 2 APPR:YGQ:TEB:06-28-22

**a. Description.** This work consists of constructing decorative concrete sidewalk (color to be “Gun Metal” P9140 by Prism Corporation) at the locations specified on the plans and as directed by the Engineer. Complete this work in accordance with the standard specifications, except as modified herein. Follow industry standards and conform to the details as shown on the plans.

Furnish documentation of experience placing and finishing colored concrete as specified herein. Ensure that the placement and finishing of decorative concrete is performed by experienced personnel. Furnish a list of completed projects and the contact person for the project owner(s) to the Engineer at the preconstruction meeting. The project list must demonstrate satisfactory completion of a minimum of 10,000 square feet of colored concrete.

**b. Materials.** Furnish materials in accordance with section 803 of the Standard Specifications for Construction. Furnish tools and equipment as recommended by the manufacturer and as approved by the Engineer. Use a single manufacturer’s complete system for products and/or materials.

Select coloring agents, colored admixture, pigmented release agent, joint sealant, clear surface sealant and all material required to construct colored concrete surfaces from the following supplier list or propose an alternate source to the Engineer for approval. Secure the approval for the final color selection for all coloring agents from the Engineer prior to beginning production.

1. Coloring Agent. Produce the colored concrete using an iron oxide type pigmented admixture in accordance with *ASTM C979/C979M* added at the concrete batch plant. The required colors are shown on the plans.

2. Clear Surface Sealant. Apply a low-luster, matte finish, clear coating recommended by the manufacturer to protect the concrete surface.

3. Joint Sealant. Seal all expansion joints with a premium-quality, three component, gun-grade, color-matched, low-modulus sealant for dynamically moving joints for exterior applications as recommended by the manufacturer.

Acceptable products:

Company Phone

Altamar 517-694-0400

Brickform 989-792-9009

Decorative Concrete Resources 866-792-9000

Increte Systems 800-752-4626

L.M. Scofield Co 586-292-1492

Prism Corporation 651-488-4250

**c. Construction.** Arrange with the manufacturer to have a representative on site for the first workday of decorative concrete placement.

The Engineer will determine whether the representative is required on-site for additional days to ensure satisfactory results.

Construct a test section, consisting of at least 25 square feet, for approval by the Engineer for color, texture, and workmanship. Seal the surface of the test section and include one saw-cut joint and one sealed joint.

Keep the approved test section at the worksite as a standard for judging the completed work. Remove and replace any portion of the completed work that does not match the workmanship of the approved test section. All costs associated with this removal and replacement will be borne by the Contractor.

Construct concrete sidewalk in accordance with section 803 of the Standard Specifications for Construction and as recommended by the manufacturer.

Do not place concrete sidewalk until the ambient air temperature away from artificial heat is at least 40 °F and rising and no freezing temperatures are expected for 48 hours. Do not use frost blankets or other cold weather protection that can impact the finished surface.

Apply pigmented release agent to tools and forms in accordance with the system manufacturer’s specifications. Place concrete and screed to the specified grade. Float and finish the surface as shown on the plans.

Do not clean the surface until adequate curing has been obtained, as recommended by the manufacturer.

Mechanically saw cut all joints 1/4 inch wide and one-fifth depth of concrete, following the joint patterns illustrated on the plans and details, or as directed by the Engineer. Seal all expansion joints with color-matched joint sealant, as recommended by the manufacturer. Apply two coats of low-luster, matte finish clear surface sealer to the finished decorative concrete as recommended by the manufacturer.

Take steps to avoid the contamination of adjacent surfaces while placing and finishing colored concrete; clean all surfaces that do get contaminated. Areas that were not properly protected and/or cannot be cleaned to the satisfaction of the Engineer must be removed and replaced. All costs associated with this removal and replacement will be borne by the Contractor.

**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**

Sidewalk, Conc, 6 inch, Decorative, Spec Square Foot

**Sidewalk, Conc, 6 inch, Decorative, Spec** includes the initial test section. All costs associated with constructing additional test sections will be borne by the Contractor.