

CITY OF DE PERE

Public Works - Engineering Department



925 S. Sixth Street, De Pere, WI 54115 | 920-339-4061 | www.de-pere.org

January 25, 2021

ADDENDUM NO. 1
PROJECT 21-06
CONCRETE STREET REPAIRS

TO: Prospective Bidders

FROM: City of De Pere

Notice is hereby given that the contract documents for Project 21-06 are amended as hereinafter set forth. If you will be submitting a bid for Project 21-06, you must sign this addendum and include it with your submittal.

This addendum consists of 4 pages.

This addendum provides the special provision for colored concrete sealing.

CHANGES TO PROJECT INTRODUCTORY INFORMATION IN ADDENDUM NO. 1:

1. Table of Contents section 00 01 10:
 - a. Insert the following under the Supplemental Special Provisions:

<u>Section</u>	<u>Title</u>
03 35 33	STAMPED COLORED CONCRETE FINISHING

CHANGES TO SUPPLEMENTAL SPECIAL PROVISIONS

1. Insert the attached section 03 35 33 on Stamped Colored Concrete Finishing

Sincerely,
DEPARTMENT OF PUBLIC WORKS



Eric Rakers, P.E.
City Engineer



Acknowledged By: _____ Date: _____

SECTION 03 35 33

STAMPED COLORED CONCRETE FINISHING

1.1 SUMMARY

- A. Section Includes:
1. Constructing stamped colored concrete.

1.2 REFERENCES

- A. WisDOT Standard Specification for Highway and Structure Construction, Latest Edition.

1.3 SUBMITTALS

- A. Design Mixes
1. Submit copies of the composition and strength testing results for design mix for each type of concrete.
- B. Certificates
1. Manufacturer's certification of the curing compound.
 2. Manufacturer's certification of evaporation retarders.
 3. Manufacturer's certification of sealer with sure grip.
- C. Samples
1. Provide all material samples needed for the required testing.

1.4 QUALITY ASSURANCE

- A. Independent testing will be completed by the Owner.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Concrete shall be in accordance with the Standard Specifications.
- B. The stamping pattern shall be Belgian Basket Weave used brick.
- C. The coloring admixture shall be WisDOT Red, conforming to Section 405 of the WisDOT Standard Specification for Highway and Structure Construction.
- D. The maximum amount of chert allowed shall be less than one percent (1.0%) by weight.
- E. The City of De Pere will provide three sets of six basic concrete stamping and patterning tools. The contractor shall provide other tools necessary to complete the work.

- F. Evaporation retarders: Waterborne monomolecular film forming manufactured for application to fresh concrete, Dayton Superior Day-Chem Sure Film J-74 or equal.
- G. Form Release Agent.
- H. AK-2 ACHRO KURE 1315 sealer with sharp grip added.
- I. Curing and sealing materials shall be compatible with colored concrete as recommended by the manufacturer.

PART 3 – EXECUTION

3.1 PLACING AND FINISHING CONCRETE

- A. Construct stamped colored concrete pavement in accordance with the standard specifications and as hereinafter provided. The coloring of the concrete shall be full depth color, not surface application
- B. The City of De Pere will provide the decorative stamping and patterning tools for stamping the concrete. The City has 21 rigid stamps and 3 flexible stamps. The stamps owned by the City are Belgian Basket Weave used brick. If the Contractor needs to purchase more stamps to perform the work, the additional stamps purchased shall be considered incidental to the stamped colored concrete. Return the concrete stamping and patterning tools to the City once work is complete. Return concrete stamping and patterning tools in good condition. If the concrete stamping and patterning tools are not returned to the City in good condition the contractor shall replace the stamping and patterning tools.
- C. Provide all other standard finishing tools for stamping the colored concrete.
- D. Colored concrete shall be produced in one (1) cubic yard increments. No ½ cubic yard loads will be accepted.
- E. Water/cement in mix design shall be consistent to maintain consistent color.
- F. Colored concrete mixes for the entire project shall be consistent. If the mix is started with High Early Strength then all colored concrete shall be provided as High Early Strength. Switching from regular colored concrete to High Early Strength colored concrete or High Early Strength colored concrete to regular colored concrete will not be allowed.
- G. Once pouring of the colored concrete on the project has begun, cement switching in the colored concrete will not be allowed because it will affect the color consistency of the colored concrete.
- H. Any additional water added to colored concrete once the truck is on site will be rejected.

- I. Blessing of the colored concrete pavement with water once concrete is in place will not be allowed. If water is added to the surface of the colored concrete surface once concrete is in place, the colored concrete will be rejected and will need to be removed.
- J. Evaporation reducers will be used throughout the construction of the colored concrete.
- K. Cover and protect adjacent construction and concrete from discoloration and spillage during placement of colored concrete, application of release agents, and sealers.
- L. Liquid release agent shall be uniformly applied onto the colored still plastic state concrete to provide clean release of imprinting tools from the concrete surface without lifting imprint or tearing concrete.
- M. While initially finished concrete is in plastic state, accurately align and place imprinting stamps. Monitor the setting up of the concrete. Once the concrete has set to the point it can be stamped the contractor shall begin stamping. Uniformly pound or press imprint tool into concrete to produce required pattern and depth of imprint on concrete surface. Remove platform tools immediately. Hand texture and stamp edges and surfaces unable to be imprinted by stamp mats. Touch up imperfections such as broken corners, double imprints and surface cracks.
- N. Stamp concrete consistently so that stamped concrete does not have a vertical elevation difference of ½ inch or depressions in concrete capable of causing ponding water or ice.
- O. For concrete hand stamp edges and surfaces that are unable to be imprinted by platform tools, use texture mats and single blade hand stamps to match platform tool stamping pattern. Finished imprinting shall match pre-construction mock-up.
- P. After concrete has been stamped and the sheen has left the surface of the colored concrete, the colored concrete shall be sealed with AK-2 ACHRO KURE 1315 with sharp grip added. Apply per manufacturer's recommendations. Two coats of seal shall be applied. Apply second coat after first coat has dried. Do not seal over blemishes or imperfections caused by rainfall or protection materials.
- Q. In general colored concrete must be protected from premature drying and excessive cold or hot temperatures. Apply evaporation retarders to concrete surfaces only if hot, dry, or windy conditions causing a moisture loss approaching 0.20lb./sq.ft. x h before and during initial finishing operations. Apply according to manufacturer's written instructions after placing and screeding and during initial floating operations.
- R. Protect the colored concrete from damage.
- S. Adjacent concrete that is discolored shall be removed and replaced to the approval of the engineer.

END OF SECTION