



**PURCHASING DEPARTMENT
DIVISION OF BUDGET & FINANCE**

100 West Washington Street, Room 3200 | Hagerstown, MD 21740-4748 | P: 240.313.2330 | F: 240.313.2331
www.washco-md.net

**PUR-1268
ADDENDUM NO. 2
INVITATION TO BID**

ANTIETAM WWTP UPGRADES

DATE: Tuesday, February 6, 2018

BIDS DUE: Wednesday, February 14, 2018

(Revised 2/2/18 via Addendum No. 1) 2:00 P.M.

To Bidders:

This Addendum is hereby made a part of the Contract Documents on which all bids will be based and is issued to correct and clarify the original documents.

Please acknowledge receipt of this Addendum at the appropriate space on the Proposal Form. This Addendum consists of two (2) pages and one (1) attachment.

NOTE: All Bidders must enter the Washington County Administration Complex through either the front door at the 100 West Washington Street entrance or through the rear entrance (w/blue canopy roof) which is handicap accessible, and must use the elevator to access the Purchasing Department to submit their proposal and/or to attend the Pre-Proposal Conference. Alternate routes are controlled by a door access system. Washington County Government has announced new security protocols being implemented at the Washington County Administration Complex at 100 West Washington Street, Hagerstown. The new measures took effect Tuesday, February 14, 2017. The general public will be subject to wand search and will be required to remove any unauthorized items from the building prior to entry. Prohibited items include, but are not limited to: Weapons of any type; Firearms, ammunition and explosive devices; Cutting instruments of any type - including knives, scissors, box cutters, work tools, knitting needles, or anything with a cutting edge, etc.; Pepper spray, mace or any other chemical defense sprays; and Illegal substances.

ITEM NO. 1: *Inquiry:* The bid form lists a 1 LS for the concrete repairs. **We are going to need either an allowance amount from you, or the number of SF of repairs that are necessary.** I have looked through the plans a couple of time an have not located any helpful info about the extent of the repairs. I can't give you a lump sum price if I don't know the size of the area. Did I miss it somewhere?

Response: All of the channels in the Headworks will need to be repaired. Channel dimensions are shown on the plans.

(NOTE: The wording of all "Inquiries" submitted are displayed exactly as received.)

ITEM NO. 2: *Inquiry:* I am writing on behalf of the specified coatings manufacturer. Can you connect me with the person responsible for the coatings specs? Many of the products are outdated and no longer VOC compliant. We can get everything updated ASAP.

Response: See the **Revised** Division 9 – Finishes Section attached to this Addendum; the revisions corrected outdated coating specs.

BY AUTHORITY OF:



Rick Curry, CPPO
Director of Purchasing

Division 9 – Finishes
Revised 2/6/18 via Addendum No. 2
SECTION 9A – PAINTS AND STAINS

9A.1 Scope

- A. The work of this section requires the furnishing of all labor and materials, equipment and services to apply painter's finish to all wood, ferrous metal, masonry, and other surfaces as scheduled, specified, or required, to completely finish the painting work, and generally includes, but is not limited to, the following work:
1. Finish painting of structural steel.
 2. Concrete unit masonry – interior.
 3. Metal doors and frames.
 4. Pull boxes, diffusers, valve boxes and covers and similar metal equipment built into place in walls, ceilings. (Note: factory finished items such as heaters, ventilators, are specified under other sections).
 5. All miscellaneous steel including galvanized and steel fabricated equipment.
 6. Painting of exposed piping, conduit, similar mains or conductors, and all valves, fittings and accessories.
 7. Priming of all woodwork.
 8. All pumps, pressure vessels and equipment.
 9. Finish on all woodwork.
 10. Touchup and prime coat bare spots altered and disturbed by the work of this Contract. Such work shall be repainted to the nearest ceiling and wall break and with sufficient coats to match existing work. Painting materials and methods shall be as specified herein for similar work.
 11. Painting of all inside faces of aluminum in contact with concrete or masonry.
 12. All duct work.
- B. General Instructions: Contractor shall examine specifications for the various other trades and shall thoroughly familiarize himself with all their provisions regarding the painting. All items of heating and ventilating, plumbing or electrical work, such as piping, conduit or equipment which will be exposed in the finished areas, shall be painted in a manner to match adjacent surfaces unless otherwise specified. All items of heating and ventilating, plumbing or electrical work, such as piping, conduit or equipment which will be exposed in the unfinished unoccupied areas, shall be painted.
- C. Materials painted or finished shall not show through the applied coatings and additional coats to obtain this result shall be provided at the Contractor's expense.

9A.2 Work Not Included

- A. Work not required or specified in other sections includes:
 - 1. Damp-proofing
 - 2. Factory-applied Finishes
 - 3. Concrete Floors
 - 4. Nonferrous metal such as aluminum and stainless steel
 - 5. Exterior of concrete split face block.

9A.3 Job Conditions

- A. Paints and materials shall be delivered in sealed original containers and packages bearing Manufacturer's name, brand designation, analysis, color, surface preparation and application recommendations, and shall be applied in accordance with these printed directions as modified herein.
- B. Primers and intermediate coats shall be products of same Manufacturer as the finish coats.
- C. Space for storage of equipment and materials shall be kept in a clean and orderly condition during execution of the work. All waste and paint rags shall be kept in metal containers, tightly covered. All such material shall be gathered up and burned or safely disposed of at the end of each working day. Every precaution to avoid fire must be taken. An approved type of fire extinguisher shall be kept and mounted immediately outside of each area or room space approved by the Engineer as a paint storage room.
- D. Contractor shall furnish and lay drop cloths in all areas where painters finish work is being done, to protect floors and all other work from defacement. All temporary protection or coverings removed too early from any part of the work shall be promptly replaced, and all damage from neglect to do so shall be made good at Contractor's expense.

9A.4 Samples of Materials

- A. Submit paint sample of each type of painting and finishing material.
- B. Submit samples of all paint and varnish stain for approval of Engineer. Where approved, samples shall be accurately followed for formula, texture and color. Each sample panel shall show the varying shades of all coats. Priming coat shall cover entire face of panel; body coat shall cover $\frac{7}{8}$ of face; and finish coat shall cover $\frac{3}{4}$ of face, thus leaving portions of priming and body color exposed. Unless otherwise specified herein, samples shall be prepared on plywood 12" x 12" x $\frac{1}{4}$ " size, in triplicate and labeled with all finishing information, including brand and Manufacturer's names of all ingredients. Finishes for masonry units and concrete shall be prepared on the face shells of the same type of units which are used in the building.

9A.5 Colors

- A. Colors of undercoats shall each be slightly lighter than succeeding coat or color of finish coat. Colors of paint and stain finishes shall be selected by Engineer, and in accordance with approved samples.
- B. All metal pipes shall be painted with the following colors for identification in addition to protection from corrosion:
 - 1. Potable Water Blue
 - 2. Process Air Green
 - 3. Raw Sewage Light Gray
- C. The pipe contents and flow direction shall be stenciled (black colored letters) on the piping.

9A.6 Materials

- A. All materials shall be first grade products of well known Manufacturers and delivered to building in unbroken packages bearing brand and name of Manufacturer and subject to inspection, analysis and approvals.
- B. Paint shall be well ground and thoroughly mixed, shall not cake in containers and shall be readily broken up to a smooth, uniform consistency. Colors shall be pure, non-fading pigments finely ground in linseed oil and of first grade. As work progresses, samples may be taken from the buckets in use for testing purposes.
- C. Brand names specified hereinafter are of Tnemec or approved equal. Brand names are specified for purpose of establishing standards of type and quality for estimating purposes. Similar equal materials will be acceptable, provided substitution has been approved by the Engineer.
- D. All painting materials such as linseed oil, turpentine and shellac shall be pure and of the highest quality, and all containers shall bear identifying labels.

9A.7 Schedule of Finishes

- A. Surfaces to be painted (for extent of work see "Work Included") shall be given following types of finishes. All such surfaces which are not listed in "Work Not Included" shall be given a painter's finish, even though such surfaces are not mentioned hereinafter; finish to be used shall be as specified for similar materials in similar locations. Finishes specified shall be in addition to any prime coats or undercoats specified in other sections. Colors of undercoats shall be similar to final coat; however, they shall differ sufficiently from final coat to permit inspection by Engineer.
- B. Surface preparations shall conform to Steel Structures Painting Council Surface Preparation Specifications for recommended surface cleaning: (1) SP-1, Solvent Cleaning; (2) SP-2, Hand Tool Cleaning; (3) SP-3, Power Tool Cleaning; (4) SP-6, Commercial Blasting; (5) SP-7, Brush-off Blasting; (6) SP-10, Near-White Blasting.

- C. Paint Type 1 – Structural steel, metal doors and frames -normal exposure; Surface Preparation SP-3 or SP-6:

1st coat Tnemec Series 115 – Uni-Bond DF - 2.0 to 4.0 mils
2nd coat Tnemec Series 30 – SPRA-SAF EN topcoat - 2.0 to 4.0 mils
3rd coat Tnemec Series 30 – SPRA-SAF EN topcoat - 2.0 to 4.0 mils

- D. Paint Type 2 – Structural steel, pumps, piping, pressure vessels and accessories - wet environment; surface preparation SP-6.

1st coat Tnemec Series 66HS - Hi-Build Epoxoline - 4.0 to 6.0 mils
2nd coat Tnemec Series 66HS - Hi-Build Epoxoline - 4.0 to 6.0 mils
3rd coat Tnemec Series 66HS - Hi-Build Epoxoline - 4.0 to 6.0 mils

- E. Paint Type 3 – Concrete Unit Masonry

1st coat Tnemec Series 130 - Envirofill - 80 to 110 sq. ft. per gallon
2nd coat Tnemec Series 66HS - Hi-Build Epoxoline - 4.0 to 6.0 mils
3rd coat Tnemec Series 66HS - Hi-Build Epoxoline - 4.0 to 6.0 mils

- F. Paint Type 4 – Submerged Metals; Surface Preparation SP-6

1st coat Tnemec Series 46H-413 - Hi-Build Tnemec Tar - 15.0 dry mils - 1.46-2.09
2nd coat Tnemec Series 46H-413 - Hi-Build Tnemec-Tar - 15.0 dry mils - 1.83-2.73

- G. Paint Type 5 – Woodwork, Interior and Exterior; Surface Preparation SP-2

1st coat Tnemec Series 1026 - Enduratone - 2.0 to 3.0 mils
2nd coat Tnemec Series 1026 - Enduratone - 2.0 to 3.0 mils
3rd coat Tnemec Series 1026 - Enduratone - 2.0 to 3.0 mils

- H. Paint Type 6 – Aluminum Painting

1st coat Tnemec Series 115 – Uni-Bond DF - 2.0 to 4.0 mils
2nd coat Tnemec Series 1026 - Enduratone - 2.0 to 3.0 mils

Paint Type 7 – Interior Plywood Ceiling; Surface Preparation SP-2

1st coat Tnemec Series 115 – Uni-Bond DF - 2.0 to 4.0 mils
2nd coat Tnemec Series 1026 - Enduratone - 2.0 to 3.0 mils
3rd coat Tnemec Series 1026 - Enduratone - 2.0 to 3.0 mils

9A.8 Preparation of Surfaces

- A. Before painters finish is begun, Contractor shall carefully inspect surfaces to be painted or varnished and shall see that they are dry and in proper condition to receive painter's finish. All surfaces not satisfactory shall be put in proper condition by Contractor before work under this section proceeds. Surfaces which are in poor condition, so that a proper finish cannot be produced by number of coats described, shall receive such special treatment or additional coats as necessary to produce a smooth, durable, and satisfactory finish.
- B. All dust, dirt, rust, scale, cementitious material and erection marks shall be carefully removed from metal work before applying paint, using benzine, and steel wool and wire brushes if necessary. Damaged areas of shop-applied prime coats shall be cleaned and repainted with metal primer.
- C. Wood and metal surfaces to be finished shall be sandpapered smooth without injury to arises and moldings. All nail holes, intersections between wood and steel, and all joints of woodwork, shall be puttied flush with adjoining surfaces.
- D. Woodwork shall be sanded before each coat is applied and shall be puttied after first coat. Putty used in varnished woodwork shall be match color of the final finish.
- E. All concrete block shall be tested for moisture content before painting is begun. Tests must be made with an approved type of electrical moisture meter. Moisture content of above materials shall not exceed 15% when painting is commenced. However, none of the provisions of this section shall relieve Contractor from responsibility of performing all painting operations in a manner which will produce satisfactory finished surface free of scaling, peeling, discoloring efflorescence, or other defects.
- F. Galvanized materials shall be solvent-cleaned with mineral spirits and pretreated prior to field painting with vinyl-type wash coat in accordance with Manufacturer's printed instructions for mixing and application.
- G. Fabric or canvas covering over insulation on pipes, ducts, tanks and other equipment, in exposed locations, shall be given two coats of non-penetrating size to which fungicide has been added. The size shall be lightly tinted for identification and applied to completely seal the surface. If pipe covering is banded, banding shall be moved to accomplish thorough sizing under bands. For subsequent painting, banding shall be left in place and painted along with insulation covering.

9A.9 Back Painting and Putty Stopping

- A. All surfaces of woodwork in contact with masonry or which are concealed in finish work shall, in addition to priming coat, have a heavy coat of back paint applied at the mill.
- B. Paint shall be thoroughly worked into all corners, cracks and crevices. Care shall be taken not to extend over onto surfaces that are to have a stained or natural finish. Back paint shall be as specified for exterior coat, to which shall be added one quart of exterior

- (spar) varnish, and 1 gill of drier to each gallon of paint.
- C. After all work is dry and priming coat is thoroughly dry, all nail holes, checks, open joints, or other defects shall be completely filled with white lead whiting putty, applied with knife, and work left smooth and even so as to be unnoticeable in finished work.
 - D. Shop coats on metal and wood materials shall be of materials as herein specified and called for in other sections.

9A.10 Workmanship

- A. No finishing shall be done when the temperature is below 50° F., or during wet atmospheric conditions, or on surfaces that are not absolutely dry. The elapsed time between coats shall not be less than 24 hours.
- B. Surface finishes shall be uniform in thickness, texture and color, and shall be free from sagging, corduroy, brush marks, and other imperfections. Finish coats shall be free from noticeable laps and brush marks. All coats judged unsatisfactory by Engineer shall be sandpapered or cleaned off and another coat applied.
- C. Spray painting will be permitted on concrete unit masonry. Before any spraying is done, mask and protect all adjacent surfaces which are not to be sprayed.
- D. Contractor shall repair all damage to surface finishes, masonry, and any other surfaces. He shall repair all damage to painter's finish by whomsoever caused, and shall leave his work clean and perfect.

9A.11 Application of Materials

- A. All work where a coat of material has been applied must be inspected and approved before application of succeeding specified coat, otherwise no credit for coat applied will be given and Contractor automatically assumes the responsibility for the work in question. All coats shall be thoroughly dry before applying succeeding coats.
- B. Materials shall be free from skins, lumps, or any foreign matter when used. Pigments and fillers shall be kept well stirred.
- C. Work and adjacent surfaces shall be protected against spatter, stains or soiling. Mask or protect all electrical and mechanical items.
- D. Each coat shall be evenly worked out and allowed to dry before subsequent coats are applied. Finish coats shall be exact shades selected without variations in color, texture, or finish. Finished work shall be free from runs and sags and defective coverage. Edges of paint, adjoining other material or colors, shall be full and clean-cut without overlapping.

- E. Each coat of paint shall be uniform and have a 1 mil minimum dry film thickness for all interior coats and exterior wood primer coats. Edges, corner, and surface projections and irregularities shall receive specified film thickness. Film thickness will be checked by Engineer. Areas scratched or defaced during testing shall be touched up at Contractor's expense. Areas with deficient film thickness shall receive coats of paint to attain specified requirements.
- F. Enamel and undercoats on wood shall be lightly sanded smooth before finish coats are applied.
- G. Interior painting shall not be done when temperature is below 50° F. Enamel shall not be applied when temperature is below 70° F.
- H. Exterior painting shall not be done in frosty, foggy or damp weather or when temperature is below 50° F.
- I. Priming coats applied under this or other sections shall be touched up and left ready for finishing coat.
- J. Angles or other metals exposed shall be painted to match adjacent material.
- K. All interior millwork to be painted shall be coated all over at mill with priming coat. Before erection, surfaces to be concealed shall be painted one additional priming coat. After erection, all exposed surfaces shall be painted as scheduled.
- L. Woodwork, stained or natural, shall be stained with permanent non-fading colors to match approved samples. Before staining, face of all woodwork shall be put in proper condition to receive it. All stained woodwork shall be sanded and painted one full coat of clear sealer as specified. Surfaces shall then be varnished two coats of satin varnish, sanded between coats as necessary to produce a perfectly smooth satin finish.

9A.12 Mixing and Tinting

- A. Job mixing or mob tinting may be done only when approved by Engineer.
- B. Thinning shall be done only in accordance with Manufacturer's directions.
- C. Tinting colors shall be as recommended by Manufacturer for the specific type of finish.
- D. Provide galvanized iron pans of suitable size in which mixing pails shall be placed. Do no mixing outside of these pans.
- E. Where coating formulation does not include fungicide, add such to coating mix before application to wood in damp or humid areas.
- F. Where necessary, strain to remove lumps and specks.

9A.13 Cleaning and Touchup

- A. At end of each day, Contractor shall place in covered metal containers, or destroy, all cloths, waste, and refuse which have been used in application of flammable paint materials. At completion of work all staging, scaffolding, containers and debris shall be removed from premises, leaving all painting in perfect and clean condition. Touch up and finish any part of work requiring same after all other have finished repairing any damage to work. Upon completion, leave work clean and free from blemishes. Hardware and similar materials shall be thoroughly cleaned of all paint to satisfaction and approval of Engineer.

9A.14 Extra Paint

- A. Contractor shall turn over to Owner at completion of the project two (2) gallons of each type of paint and stain used. Paint shall be furnished in sealed and unopened, marked containers.