

ADDENDUM No. 1

ITB No. 4370

Mack Pool Interior Ceiling and Trim Painting

Due: March 31, 2015, 2:00 P.M.

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for Mack Pool Interior Ceiling and Trim Painting, ITB No. 4370, on which proposals will be received on/or before Tuesday, March 31, 2015, by 2:00 P.M.

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 9 attached pages and attached 2 drawings.**

Bidder is to acknowledge receipt of this Addendum No. 1, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgement of receipt of this addendum will be considered nonconforming.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the Bid documents which are outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

<u>Section/Page(s)</u>	<u>Change</u>
Specification 01370 Lead Based Paint Removal	Delete entire section (4 pages, dated: February 27, 2015).
Specification 01370 Lead Based Paint Remediation	Add entire section (6 pages, dated: March 20, 2015).
Specification 09900 Painting	Delete Schedules M1 and M2 (2 pages, dated: February 27, 2015).
Specification 09900 Painting	Add Schedules M1 and M2 (2 pages, dated: March 24, 2015).
Drawing G-02 Site Plan	Add temporary construction fence as shown.

Drawing C-01
Existing Conditions, Demolition
and Construction Work Plans

Include 2" gas pipe in painting scope.

Existing PVC roof drain pipe on east side may be reused, however with new insulation and pipe hangers as specified.

Clarify lighting and speaker identification.

Lighting fixtures may be protected in place rather than removed and reinstalled.

Duct shall be removed and reinstalled by "Stuart Mechanical", who shall be hired by the CONTRACTOR to complete this work. Contact: Ed Przybranowski at eprzybranowski@stuart-mechanical.com or 248-258-5800.

Delete painting of doors and windows for the office and locker rooms.

Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

II. QUESTIONS AND ANSWERS

The following represent Questions have that been received by the City, and which are not addressed elsewhere in this Addendum. Responses are being provided in accordance with the terms of the ITB.

Question #1: Is there an estimated value for the project?

Answer: The project construction cost is estimated to be approximately \$100,000 to \$120,000.

Bidders are responsible for any conclusions that they may draw from the information contained in the Addendum.

The pre-bid meeting sign-in sheet is included with this Addendum.

SECTION 01370

LEAD BASED PAINT REMEDIATION

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section specifies requirements for working with lead-containing materials (LCM), during any of the following operations:
 - 1. Demolition of Lead-Containing Materials (LCM): Includes razing a building or any portion of a building or piece of equipment with LCM.
 - 2. Incidental Removal or Disturbance of Lead-Based Paint (LBP): This includes activities such as sanding and scraping for paint preparation activities.
 - 3. Removal of Lead-Based Paint (LBP): Complete removal of LBP from substrate
- B. Extent of known LCM is as follows:
 - 1. All existing paints and varnishes.

1.2 DEFINITIONS

- A. The term "Lead-Based Paint" (LBP) is identified as paint or other surface coating such as varnish, sealer or stain containing lead in any detectable amount.
- B. The term "Incidental Removal or Disturbance of Lead-Based Paint" indicates one or more of the following operations:
 - 1. Scraping, hand sanding, or otherwise removing loose LBP from existing surfaces scheduled to remain in place.
- C. The term "Demolition of LCM" refers to cutting, drilling, abrading, demolishing, or otherwise disturbing building elements coated with LBP or containing lead.
- D. The term "Lead-Containing Materials" (LCM) is identified as construction debris coated with lead-based paint or other materials containing lead.
- E. The term "Critical Barrier" indicates the perimeter of the enclosure within which lead disruption/removal work takes place. Critical Barriers may include existing floor, wall, and ceiling structures, as well as constructed partitions, closures and seals.
- F. The term "Project Site" indicates the limits of the Project Site as indicated on drawings or by provisions of this specification.
- G. The term "Work Area" indicates the area within the Critical Barrier.
- H. The term "Action Level" means exposure to an airborne concentration of lead of 30 micrograms per cubic meter of air calculated as an 8-hour time-weighted average (TWA).
- I. The term "Exposure Assessment" means a determination of employee exposures for a given task measured by air monitoring. The Assessment must meet the criteria for objective data as outlined in the MIOSHA/OSHA Lead in Construction Standard (MIOSHA Part 603, R325.51992 and 29 CFR 1926.62).

- J. The term "OSHA PEL" stands for the Permissible Exposure Limit established by the Occupational Safety and Health Administration for lead exposure. The OSHA PEL refers to an airborne concentration of lead of 50 micrograms per cubic meter of air calculated as an 8-hour time-weighted average (TWA).
- K. The abbreviation "TCLP" stands for Toxicity Characteristic Leaching Procedure and refers to one of the tests to determine if waste is considered a Hazardous Waste or non-hazardous solid waste.
- L. The term "Hazardous Waste" refers to a listed waste or any solid or liquid waste with one or more of the following characteristics: toxic, corrosive, flammable, explosive, combustible, oxidizer, pyrophoric, unstable (reactive) or water - reactive.
- M. The term "Non-Hazardous Waste" refers to any solid or liquid waste not exhibiting characteristics of Hazardous Waste.

1.3 SUBMITTALS

- A. Written Compliance Plan: Submit to OWNER OR ENGINEER a Written Compliance Plan incorporating all requirements in the MIOSHA Lead in Construction Standard. Also indicate type of containment and method of liquid waste capture to be established if water is utilized for removal.
- B. Health and Safety Requirements: Submit to OWNER or ENGINEER the following information for each employee that will conduct lead disturbance on the job site:
 - 1. Respiratory Protection Program.
 - 2. Proof of current fit test for respirator that will be worn on Project Site.
 - 3. Proof of medical surveillance for respirator usage and lead work.
 - 4. Proof of lead awareness or higher level of training.

1.4 QUALITY ASSURANCE

- A. Personnel involved in the disturbance of LCM shall be trained in accordance with the requirements of the MIOSHA Lead in Construction Standard, including:
 - 1. The content of the MIOSHA Lead in Construction Standard and its appendices;
 - 2. The specific nature of the operations which could result in exposure to lead above the action level;
 - 3. The purpose, proper selection, fitting, use, and limitations of respirators;
 - 4. The purpose and a description of the medical surveillance program, and the medical removal protection program including information concerning the adverse health effects associated with excessive exposure to lead (with particular attention to the adverse reproductive effects on both males and females and hazards to the fetus and additional precautions for employees who are pregnant);
 - 5. The engineering controls and work practices associated with the employee's job assignment including training of employees to follow relevant good work practices;
 - 6. The contents of any compliance plan in effect;

7. Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician; and
8. The employee's right of access to records under 29 CFR 1910.20.

PART 2 - EXECUTION

2.1 HEALTH AND SAFETY REQUIREMENTS

- A. General: When perform lead based paint removal, conduct an initial exposure assessment at the start of the project to determine employee exposure to lead in air as required in MIOSHA Lead in Construction Standard.
- B. Job requirements: When the Contractor does not have an Exposure Assessment or the Assessment is determined to be insufficient, the Contractor must conduct personal air monitoring in accordance with the MIOSHA Lead in Construction Standard and follow the requirements below which are outlined by job task until monitoring determines otherwise:
 1. Manual demolition, scraping, sanding, heat gun application, power tool cleaning with HEPA dust collection system, spray painting with LCM:
 - a. Use of 1/2 mask respirator with HEPA filters.
 - b. PPE.
 - c. Medical surveillance.
 - d. Use of changing room.
 - e. Use of handwashing facilities.
 - f. Provision of lead awareness training.
 2. Using lead mortar, lead burning, rivet busting, power tool cleaning without HEPA collection, cleaning up with dry expendable abrasives, removing or relocating enclosure:
 - a. Loose fitting PAPR with HEPA or supplied air respirator.
 - b. PPE.
 - c. Medical surveillance.
 - d. Use of changing room.
 - e. Use of handwashing facilities.
 - f. Provision of lead awareness training.
 3. Abrasive blasting, welding, using cutting torch, burning:
 - a. Supplied air respirator or SCBA.
 - b. PPE
 - c. Medical surveillance.

- d. Use of changing room.
 - e. Use of handwashing facilities.
 - f. Provision of lead awareness training.
- C. When performing lead based paint removal, collect a minimum of one area air sample per day outside of the work zone to ensure that the action level is not exceeded outside of the work area. A minimum of 1200 liters of air shall be collected for each area air sample.

2.2 PREPARATION

- A. General: Prepare Work Areas in a manner that will protect Owner's personnel and property, and the visiting public, from contact with LCM. Prior to beginning work, confirm starting date and time with Owner. Do not begin work that will disturb LCM without Owner's approval.
- B. Preparing Building Exteriors: Ensure adequate measures are in place to limit airborne lead content below the Action Level of 30 ug/m³ (micrograms per cubic meter) adjacent to the Work Area.
1. Erect barricades and install warning tape or signs as necessary to prevent inadvertent exposure of passersby to LCM in all forms, including, but not necessarily limited to dust, particles, and fumes.
 2. Completely cover grounds and vegetation with minimum 8-mil thick polyethylene sheets with joints between sheets lapped and taped; with one edge taped to adjacent building surfaces below area of work; and with free ends secured in position with stakes, tie-down lines or weights. Cover sufficient ground area to capture wind-blown chips, dust and particles.
- C. Preparing Building Interiors: Ensure adequate measures are in place to protect building occupants from exposure to airborne lead dust, particles, fumes or other LCM exceeding the Action Level of 30 ug/m³ (micrograms per cubic meter) lead content in air. Adequate measures shall include, but are not necessarily limited to, construction of Critical Barriers and/or establishment of negative pressure within Work Area.
1. Seal off openings and penetrations into the Work Area. Provide temporary dust barriers consisting of at least polyethylene plastic sheet on wood studs. Lap and tape joints of plastic sheeting to prevent dust, particles, fumes, and other forms of lead debris from leaving the enclosed area.
 2. Discontinue building ventilation within the Work Area and seal off ventilation supply and return or exhaust diffusers, grilles or openings.
 3. Post warning signs at all entrances to the Work Area that state the following, as required in MIOSHA Lead in Construction Standard:
WARNING
LEAD WORK AREA
POISON
NO SMOKING OR EATING

2.3 WORK PRACTICES

- A. General: Perform any removal, demolition or disturbance of LCM in compliance with the following requirements:
1. Restrict access to Work Area to essential personnel.

2. Use moist-removal methods and/or HEPA vacuuming where applicable. Do not over-saturate the Work Area.
 3. Any debris generated must be cleaned up immediately before it can be tracked into other areas.
 4. Remove contaminated clothing and personal protective equipment before leaving the Work Area, or Work Area enclosure, as applicable.
 5. If the Action Level is exceeded outside the Work Area, discontinue work and modify Critical Barrier, or perform other modifications of methods or materials as required to reduce the lead contamination below the Action Level.
 6. Prohibit eating, drinking, and smoking in the Work Area.
- B. Incidental Removal of LBP: Remove paint from building surfaces by hand scraping and sanding; or through the use of fluid-applied chemical strippers designed to dry into a solid polymeric sheet and peel off with paint encapsulated. Hand-scraping and sanding must be used in conjunction with moist-removal methods using misted water. Leave moist paint dust and chips in place to air dry before collection.
1. Wet methods (including power-washing) that use amounts of water that can drip, spill, or leak onto the ground, or onto or into other adjacent surfaces are prohibited unless approved by owner.
 2. Dry removal methods (including sand blasting, power sanding, and other methods relying on high velocity mechanical abrasion) that create airborne fine particulate waste materials are prohibited unless specifically reviewed and approved by owner.
 3. Prior to torch-cutting building elements containing LBP, remove paint within four inches of centerline of cut in accordance with requirements of this Section.

2.4 DISPOSAL

- A. Lead Painted Demolition Debris and Lead Paint Chips: In order to determine proper disposal of waste removed from the site, perform Toxicity Characteristic Leaching Procedure (TCLP) testing of LCM waste. If TCLP testing shows the waste to be nonhazardous, the waste can be disposed of as normal construction demolition debris. If waste is classified as Hazardous dispose of material as hazardous waste at an accepting landfill.
1. When storing waste containers on-site, ensure that soil, ground water, and drains or sewers within the storage area are protected from possible contamination. Keep containers secure and tightly closed at all times, except when adding waste.
 2. Keep lead waste segregated from other waste. Do not co-mingle waste. **DO NOT MIX LIQUID AND SOLID WASTE.**
 3. Place appropriate labels on all containers. Provide all information required on the label; mark labels using indelible ink.

2.5 CLEAN UP

- A. Upon completion of LCM or LBP removal and disposal operations, clean all surfaces within the Work Area before it can be tracked into other areas, including, but not necessarily limited to the following:
 - 1. Siding.
 - 2. Steel support structures.
 - 3. Floors and ground.
 - 4. Walls.
 - 5. Window sills.
 - 6. Trim.
 - 7. Ledges and projections.
- B. For projects within building interior spaces, use a HEPA filtered vacuum for removal/elimination of dust, particulates, and debris.
 - 1. Brushing, brooming and other dry methods that generate airborne dust are prohibited.
- C. Remove and dispose of wash water and HEPA filters as Hazardous Waste.
- D. Field Testing: When performing lead based paint removal, upon completion of removal and clean-up operations, conduct air sampling to ensure that airborne lead concentrations are below the action level prior to allowing general occupancy of the space. A minimum of 1200 liters of air should be collected during air sampling.
 - 1. The Owner may visually inspect and/or test the Project Site for evidence of remaining lead contamination. Return to Project Site and, at no additional cost to Owner, re-clean areas found to be contaminated.

PAINT SCHEDULE M1
 SERVICE: EXTERIOR METAL

09900-7

Surface Preparation: SSPC-SP6 Commercial Blast

Paint Manufacturer	Application	Product Name	Generic Type	No. of Coats	Dry Mils/ Coat	Sq Ft Covered/ Gallon	Comments
Tnemec	Primer	Tneme-Zinc Series 90-97	Zinc-Rich Aromatic Urethane	one	2.5-3.5		
Tnemec	Intermediate	F.C. Typoxy Series 27	Polyamide Epoxy	one	4.0-6.0		
Tnemec	Finish	Endura-Shield II Series 1074	Aliphatic Acrylic Polyurethane	two	2.0-3.0		Gloss
				TOTAL	10.5 – 15.5 mils		
Carboline	Primer	Carbozinc 859	Organic Zinc-Rich Epoxy	one	3.0-5.0		
Carboline	Intermediate	Carboguard 60	Polyamide Epoxy	one	4.0-6.0		
Carboline	Finish	Carbothane 134 HG	Aliphatic Acrylic Polyurethane	two	2.0-3.0		
				TOTAL	11.0 – 17.0 mils		

MACK POOL INTERIOR CEILING AND TRIM PAINTING

PAINT SCHEDULE M2

09900-8

SERVICE: INTERIOR METALS

Surface Preparation: Non galvanized steel: SSPC-SP6 Commercial Blast
Galvanized steel: SSPC-SP7 Brush off Blast

Paint Manufacturer	Application	Product Name	Generic Type	No. of Coats	Dry Mils/Coat	Sq Ft Covered/Gallon	Comments
Tnemec	Primer	Tneme-Zinc Series 90-97	Zinc-Rich Aromatic Urethane	one	2.5-3.5		
Tnemec	Intermediate	F.C. Typoxy Series 27	Polyamide Epoxy	one	4.0-6.0		
Tnemec	Finish	Endura-Shield II Series 1074	Aliphatic Acrylic Polyurethane	two	2.0-3.0		Gloss
				TOTAL	10.5 – 15.5 mils		
Carboline	Primer	Carbozinc 859	Organic Zinc-Rich Epoxy	one	3.0-5.0		
Carboline	Intermediate	Carboguard 60	Polyamide Epoxy	one	4.0-6.0		
Carboline	Finish	Carbothane 134 HG	Aliphatic Acrylic Polyurethane	two	2.0-3.0		
				TOTAL	11.0 – 17.0 mils		

MACK POOL INTERIOR CEILING AND TRIM PAINTING



GENERAL SHEET NOTES:

1. ALL ITEMS INCIDENTAL TO AND/OR REQUIRED TO COMPLETE THE INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL COMPLY WITH, AND ALL WORK AND MATERIALS SHALL CONFORM TO, THE REQUIREMENTS OF ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS ORDINANCES, AND REGULATIONS.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTIONS FOR ALL WORK.
4. ALL MATERIAL AND EQUIPMENT SHALL BE STORED IN SUCH A MANNER TO PREVENT BREAKAGE OR PHYSICAL DAMAGE. STORE IN ORIGINAL PACKAGING AND PROVIDE PROTECTIVE COVER TO KEEP OUT RAIN, DIRT, AND FOREIGN OBJECTS.
5. STORAGE AREAS FOR CONSTRUCTION MATERIALS MUST NOT INTERFERE WITH FIRE/EMERGENCY SITE ACCESS.
6. ALL REFUSE IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE HAULED OFFSITE AND DISPOSED OF PROPERLY.
7. THERE SHALL BE NO DISRUPTIVE ACTIVITIES TO THE PUBLIC PRIOR TO THE START OF PERMITTED CONSTRUCTION HOURS EACH DAY (E.G., LOUD RADIOS, LIGHTS, RUNNING EQUIPMENT, ETC.).
8. PROVIDE ALL SAFETY BARRICADES, TEMPORARY FENCING, SIGNAGE, ETC. NECESSARY TO PROTECT THE PUBLIC.
9. RESTORE THE SITE, PARKING AREAS, STORAGE AREAS AND LAWN TO EXISTING OR BETTER CONDITIONS.
10. SCHEDULE: ALL CONSTRUCTION WORK MUST BE COMPLETED BEFORE AUGUST 15, 2015.

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The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Notes



Revision	By	Appd.	YY.MM.DD

ACCORDION #1	PJM	PJM	15.03.24
BID SET	MRH	PJM	15.03.02
REVIEW		PJM	15.02.20
Issued	By	Appd.	YY.MM.DD

File Name: 128416_G-02.DWG
Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

Client/Project
**CITY OF ANN ARBOR
MACK POOL
INTERIOR CEILING AND TRIM PAINTING**

Ann Arbor, MI

Title
SITE PLAN

Project No. 2075128416
Scale 1:20
Drawing No. Sheet Revision

G-02 2 of XX 0

811
Know what's below.
Call before you dig.

NOTE:
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

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 20150324 11:38 AM BY: Arlene_Bad

MACK POOL INTERIOR PAINTING
PRE-BID WALK-THROUGH.

MARCH 10, 2015.

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