August 8, 2019

Keokuk Municipal Water Works
20 N. 4th St.
Keokuk, IA 52632

BIDDING ADDENDUM 01

For work titled:
Old Lincoln School – Interior Shop Abatement Project
1402 S. 7th St.
Keokuk, IA 52632
Project Number: 4448-03/19-2020
Agency Project Number: N/A

TO ALL BIDDERS

GENERAL NOTES
This addendum is issued for the purpose of clarifying the intent of the contract documents or for making necessary corrections, deletions, and/or additions to the documents on all items of discrepancy raised up to the time of the issuance of this addendum.

Each bidder is hereby instructed and authorized to incorporate into his proposal the instructions contained in this addendum. This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated July 22, 2019. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

This addendum consists of fifteen (15) - 8 1/2” x 11” pages including this cover sheet and two (2) - 30” x 42” sheets.

PROJECT MANUAL

1. Section 028313 REPLACE entire section. Added information about LBP Post-Removal Lockdown/Sealant.

DRAWINGS

1. Sheet AB101 REPLACE entire sheet. Columns were added for radiators and chalkboard.

ATTACHMENTS

Section 028313 – Removal and Disposal of Lead-Containing Paint - (12 pgs., 8.5 X 11)
AB101 – First Floor & Second Floor Abatement Phasing Plan - (30x42)
AB201 – First Floor Abatement Plan - (30x42)
Plan Holders List - (1 pg., 8.5 X 11)
Pre-Bid Sign In Sheet – (1 pg., 8.5 X 11)

All other terms and conditions of the Project Manual and Drawings shall remain unchanged.

END OF ADDENDUM 01
SECTION 028313 (Revised 8/8/2019)
REMOVAL AND DISPOSAL OF LEAD-CONTAINING PAINT

PART 1 - GENERAL

1.1 SUMMARY

A. Description Of Work

1. This specification covers the removal and disposal of lead-based or lead-containing paint. Products shall be as follows or as directed by Engineer. Installation procedures shall be in accordance with the product manufacturer’s recommendations. Demolition and removal of materials shall be as required to support the work. Post-Removal Lockdown/Sealant will be required over the entire surface of scraped walls and ceilings.

1.2 DEFINITIONS

A. Action Level: Employee exposure, without regard to use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air averaged over an 8-hour period in an occupational/industrial environment.

B. Area Sampling: Sampling of lead concentrations within the lead control area and inside the physical boundaries, which is representative of the airborne lead concentrations but is not collected in the breathing zone of personnel. This sampling may be conducted by OWNER’s third-party consultant, if required.

C. Certified Contractor: Certified under 40 CFR 745.226 to inspect, assess or remove lead-based paint, dust or soil. Certification as required to provide notification to the Environmental Protection Agency prior to the commencement of lead-based paint abatement activities in residential dwellings and child occupied facilities.

D. Contaminated Room: Room for removal of contaminated personal protective equipment (PPE).

E. Decontamination Shower Facility: That facility that encompasses a clean clothing storage room, and a contaminated clothing storage and disposal rooms, with a shower facility in between.

F. Eight-Hour Time Weighted Average (TWA): Airborne concentration of lead to which an employee is exposed, averaged over an 8-hour workday as indicated in 29 CFR 1926.62.

G. EPA Notification: The certified contractor shall notify the Environmental Protection Agency at least 5 business days prior to conducting lead-based paint abatement in residential or child occupied facilities. The notification requirements for updating and canceling projects shall also be completed as required.

H. High Efficiency Particulate Air (HEPA) Filter Equipment: HEPA filtered vacuuming equipment with a UL 586 filter system capable of collecting and retaining lead-contaminated paint dust. A high efficiency particulate filter means 99.97 percent efficient against 0.3 micron or larger size particles.

I. Lead: Metallic lead, inorganic lead compounds, and organic lead soaps.
J. Lead-Based Paint (LBP): Paint or other surface coating that contains lead in excess of 1.0 milligrams per centimeter squared or 0.5 percent by weight.

K. Lead-Based Paint Hazard (LBP Hazard): Any condition that causes exposure to lead from lead-contaminated dust, lead-contaminated soil, and lead-based paint that is deteriorated or present in accessible surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects.

L. Lead-Containing Paint (LCP): Lead-based paint or other similar surface coating containing lead or lead compound in excess of 0.06 percent by weight of the total nonvolatile content of the paint.

M. Lead Control Area: An enclosed area or structure, constructed as a temporary containment equipped with HEPA filtered local exhaust, which prevents the spread of lead dust, paint chips, or debris existing as a condition of lead-based paint removal operations. The lead control area is also isolated by physical boundaries to prevent unauthorized entry of personnel.

N. Lead Permissible Exposure Limit (PEL): Fifty micrograms per cubic meter of air as an 8-hour time weighted average as determined by 29 CFR 1926.62. If an employee is exposed for more than eight hours in a workday, the PEL shall be determined by the following formula: PEL (micrograms/cubic meter of air) = 400/No. Hours worked per day.

O. Personal Sampling: Sampling of airborne lead concentrations within the breathing zone of an employee to determine the 8-hour time weighted average concentration in accordance with 29 CFR 1926.62. Samples shall be representative of the employees' work tasks. The sampling, conducted by the Contractor, shall provide information to complete the required exposure assessment to identify the level of exposure a worker would be subject to without respiratory protection. Whenever there has been a change of equipment, process, control, personnel or a new task has been initiated, the Contractor shall conduct additional personal sampling.

P. Physical Boundary: Area physically roped or partitioned off around an enclosed lead control area to limit unauthorized entry of personnel. As used in this section, "inside boundary" shall mean the same as "outside lead control area but inside boundary."

Q. Post-Removal Lockdown/Sealant: A coating designed to be used after lead based paint removal activities that binds residual lead-based paint and dust present after removal, and accepts most topical coverings. The coating should bond to most surfaces eliminating the need for sanding, priming, and sizing recently stripped surfaces.

R. Project Supervisor (PS): As used in this section, refers to a person employed by the Contractor who is trained and certified in the recognition and control of lead hazards in accordance with current federal, State, and local regulations. The PS shall be trained and certified to inspect, assess or remove lead-based paint, dust or soil.

S. Third Party Consultant: OWNER may provide a third-party consultant to provide pre-work assessments, project monitoring assessments for the work area and surrounding areas and final clearance assessments.

T. Worker certifications: All workers inspecting, assessing, or removing lead-based paint, dust or soil who are trained and certified to conduct these activities. As per 40 CFR Part 745 and 29 CFR 1926.
1.3 SUBMITTALS (Please submit the following)

A. Product Data:
1. Vacuum and negative air filters (if units are required)
2. Respirators
3. Post-Removal Lockdown/Sealant

B. Test Reports
1. Compliance Assessment report

C. Certificates
1. Certifications of PS
2. Testing laboratory qualifications
3. Contractor Consultant qualifications, if any required
4. Respiratory protection program
5. Hazard communication program
6. EPA approved hazardous waste treatment or disposal facility for lead disposal
7. Hazardous waste management plan
8. Vacuum filters
9. Employee training certifications
10. Certification of medical examinations

D. Manufacturer's Instructions
1. Chemicals and equipment
2. Materials
3. Material safety data sheets for all chemicals

E. Lead-Based Paint/Lead-Containing Paint Removal Plan (LBP/LCPRP) including PS approval (signature, date, and certification number):
1. The job specific plan for the work procedures to be utilized,
2. The job specific plan for worker protection issues regarding personal protective equipment, the work procedures, and exposure assessment procedures,
3. The job specific plan for protecting the work area, ventilation and drainage systems,
4. Collected waste water disposal,
5. Paint debris disposal (hazardous and non-hazardous waste).

F. Containment Design
1. The containment design proposed for use during surface preparation and cleanup activities as required to perform the work. The Plan for staging, installing, moving and removing the containment. Include all data, calculations and assumptions used for the design of the containment and ventilation system to ensure that airborne lead concentrations of 30 micrograms per cubic meter of air and baseline lead dust/soil concentrations are not reached or exceeded outside of the lead control area;
2. Methods to be used to verify adequate air flow characteristics and negative pressure within containment;
3. The plan for staging and storing any waste material;
4. The plan for establishing barriers to control access of personnel within the exposure zones;

G. Compliance Plan
1. Establish monitoring programs for the monitoring activities that are the responsibility of the Contractor and include provisions for complying with the results of any monitoring and analysis that is conducted by the Contractor;

2. Establish procedures for monitoring of airborne exposures surrounding project activities and the establishment of visible barriers to control the access of personnel within the exposure zones. Contractor will provide instrument monitoring of airborne exposure and/or wipe sampling within the work area or the surrounding areas by a third-party consultant.

3. Clean up to pre-project levels will be required. The Contractor will provide final visual, instrument and wipe sampling to clear the work and surrounding areas.

4. Final Clearance Evaluation – Provide written procedures identifying the methods that will be used to conduct final project clean up and the final cleanliness inspections and evaluations that will be undertaken in compliance with the project requirements.

H. Closeout Submittals

1. Completed and signed hazardous waste manifest from treatment or disposal facility

2. Certification of medical examinations, if required.

1.4 QUALIFICATIONS OF PROJECT SUPERVISOR (PS)

A. Submit name, address, telephone number and the EPA certification number of the PS selected to perform responsibilities specified in paragraph entitled “Project Supervisor (PS) Responsibilities.” Provide at least two (2) years of previous experience with lead-based paint abatement projects. Submit proper documentation that the PS is trained and certified in accordance with federal, State, and local laws.

1.5 CONTRACTOR CONSULTANT QUALIFICATIONS

A. Submit the name, address, telephone number and the EPA certification number of the contractor Consultant (Contractor) if one is selected to perform the worker protection sampling and any additional sampling the Contractor may decide to take. Submit proper documentation that the Contractor consultant is trained and certified as an inspector technician or inspector/risk assessor by the USEPA and authorized State (or local) certification and accreditation program. The Contractor consultant shall have at least two (2) years of previous experience with lead-based paint abatement projects.

1.6 TESTING LABORATORY

A. Submit the name, address, and telephone number of the testing laboratory selected to perform the air sampling and disposal testing. The air sampling results shall be utilized for reporting of airborne concentrations of lead for Contractor worker protection issues. Use a laboratory accredited under the EPA National Lead Laboratory Accreditation Program (NLLAP) by either the American Association for Laboratory Accreditation (A2LA) or the American Industrial Hygiene Association (AIHA) and that is successfully participating in the Environmental Lead Proficiency Analytical Testing (ELPAT) program to perform sample analysis.
1.7 LEAD-BASED PAINT / LEAD-CONTAINING PAINT REMOVAL PLAN (LBP / LCPRP)

A. Information to also be included in the LBP/LCPRP not indicated in Section 1.3, C 5 & 6 shall include but not be limited to the following items. The plan shall include a sketch showing the location, size, and details of lead control areas, location and details of the decontamination facilities. Include in the plan, eating, drinking, smoking and sanitary procedures, and interface of trades and sequencing of lead related work. Include site preparation and cleanup procedures. Include occupational and environmental sampling (if any by the Contractor), frequency and duration of sampling.

1.8 OCCUPATIONAL AND ENVIRONMENTAL SAMPLING RESULTS

A. Submit occupational and environmental sampling results to the OWNER within three working days of collection, signed by the testing laboratory responsible official, the employee that performed the sampling, and the PS.
1. The sampling results shall represent each job classification, or if working conditions are similar to previous jobs by the same employer, provide previously collected exposure data that can be used to estimate worker exposures in accordance with 29 CFR 1926.62. The data shall represent the worker's regular daily exposure to lead.
2. Submit worker exposure data conducted during the task-based trigger operations of 29 CFR 1926.62.
3. The initial monitoring shall determine the requirements for further monitoring and the need to fully implement the control and protective requirements including the compliance program (LBP/LCP) in accordance with 29 CFR 1926.62.

1.9 OCCUPATIONAL AND ENVIRONMENTAL ASSESSMENT DATA REPORT

A. Some LBP/LCP removal work may not require full implementation of the requirements of 29 CFR 1926.62. Based on the experience of the Contractor and/or the use of a specific process or method for performing the work, the Contractor may be able to provide historic data (previous 12 months) to demonstrate that airborne exposures are controlled below the action level. Such methods or controls shall be fully presented in the LBP/LCPRP. To reduce the full implementation of 29 CFR 1926.62, the Contractor shall provide documentation in an Assessment Data Report.

B. Submit occupational and environmental assessment report to OWNER prior to start of work, signed by the testing laboratory responsible official, and the PS.
1. Submit a report that supports the determination regarding the reduction of the need to fully implement the requirements of 29 CFR 1926.62 and supporting the LBP/LCP. The exposure assessment shall represent each job classification, or if working conditions are similar to previous jobs by the same employer, provide previously collected exposure data that can be used to estimate worker exposures in accordance with 29 CFR 1926.62. The data shall represent the worker's regular daily exposure to lead for stated work.
2. Submit worker exposure data conducted during the task based trigger operations of 29 CFR 1926.62 with a complete process description in supporting a negative assessment.
3. The initial assessment shall determine the requirement for further monitoring and the need to fully implement the control and protective requirements including the compliance program (LBP/LCPRP) in accordance with 29 CFR 1926.62.
1.10 QUALITY ASSURANCE

A. Medical Examinations: Initial medical surveillance as required by 29 CFR 1926.62 shall be made available to all employees exposed to lead at any time (1 day) above the action level. Full medical surveillance shall be made available to all employees on an annual basis who are or may be exposed to lead in excess of the action level for more than 30 days a year or as required by 29 CFR 1926.62. Adequate records shall show that employees meet the medical surveillance requirements of 29 CFR 1926.33, 29 CFR 1926.62, and 29 CFR 1926.103.

1. Medical Records: Maintain complete and accurate medical records of employees for a period of at least 30 years or for the duration of employment plus 30 years, whichever is longer.

2. Medical Surveillance: Provide medical surveillance to all personnel exposed to lead as indicated in 29 CFR 1926.62.

B. Project Supervisor (PS) Responsibilities

1. Certify training as meeting all federal, State, and local requirements.

2. Review and approve lead-based paint/lead-containing paint removal plan for conformance to the applicable referenced standards.

3. Continuously inspect lead-based paint removal work for conformance with the approved plan.

4. Perform air sampling, if required by Contractor.

5. Ensure work is performed in strict accordance with specifications at all times.

6. Control work to prevent hazardous exposure to human beings and to the environment at all times.

7. Certify the conditions of the work as called for elsewhere in this specification.

C. Training: Train each employee performing inspection, assessing, paint removal, disposal, and air sampling operations prior to the time of initial job assignment and annually thereafter, in accordance with 40 CFR 745.225, 29 CFR 1926.21, 29 CFR 1926.62, and State and local regulations.

1. Training Certification: Submit a certificate for each employee, signed and dated by the approved training source, stating that the employee has received the required lead training.

D. Respiratory Protection Program

1. Furnish each employee required to wear a negative pressure respirator or other appropriate type with a respirator fit test at the time of initial fitting and at least annually thereafter as required by 29 CFR 1926.62.


F. Hazardous Waste Management: The Hazardous Waste Management Plan shall comply with applicable requirements of federal, State, and local hazardous waste regulations and address:

1. Identification and classification of hazardous wastes associated with the work.

2. Estimated quantities of wastes to be generated and disposed of.

3. Names and qualifications of each Contractor that will be transporting, storing, treating and/or disposing of the wastes. Include the facility location and operator and a 24-hour point of contact. Furnish two copies of EPA, or State and local hazardous waste permit applications or permits or manifests, as required.

4. Names, qualifications and training (experience and training) of personnel who will be working on-site with hazardous wastes.
5. List of waste handling equipment to be used in performing the work, to include cleaning, volume reduction, and transport equipment.

6. Spill prevention, containment, and cleanup contingency measures including a health and safety plan to be implemented in accordance with 29 CFR 1926.65.

7. Work plan and schedule for waste containment, removal and disposal. Wastes shall be cleaned up and containerized daily.

G. Environmental, Safety and Health Compliance: In addition to the detailed requirements of this specification, comply with laws, ordinances, rules, and regulations of Federal, State, and local authorities regarding removing, handling, storing, transporting, and disposing of lead waste materials. Comply with the applicable requirements of the current issue of 40 CFR Part 745 and 29 CFR 1926.62. Submit matters regarding interpretation of standards to Engineer for resolution before starting work. Where specification requirements and the referenced documents vary, the most stringent requirement shall apply.

H. Pre-Construction Conference: Along with the PS, meet with OWNER, Engineer, and any facility or consultant representatives to discuss in detail the hazardous waste management plan and the lead-based paint/lead-containing paint removal plan, including work procedures and precautions for the removal plan.

1.11 EQUIPMENT

A. Respirators: Furnish appropriate respirators approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services, for use in atmospheres containing lead dust. Respirators shall comply with the requirements of 29 CFR 1926.62.

B. Special Protective Clothing: Furnish personnel who will be exposed to lead-contaminated dust with proper disposable uncontaminated, reusable protective whole-body clothing, head covering, gloves, and foot coverings as required by 29 CFR 1926.62. Furnish proper disposable plastic or rubber gloves to protect hands. Reduce the level of protection only after obtaining approval from the PS.

C. Vacuum Filters: UL 586 labeled HEPA filters.

1.12 REMOVAL

A. Title to Materials: Materials resulting from demolition work, except as specified otherwise, shall become the property of the Contractor and shall be disposed of in accordance with all federal, State and local regulations.

PART 2 - PRODUCTS

2.1 PRODUCT

A. Chemicals: Submit applicable Material Safety Data Sheets for all chemicals used in paint removal work. Use the least toxic product approved by Engineer.

B. Post-Removal Lockdown/Sealant: Pre-Approved Products as follows:
   1. Lead Shield (Fiberlock Technologies) - #5475-Translucent Blue
   2. Or, equal as pre-approved in writing by Engineer prior to bid
PART 3 - EXECUTION

3.1 EXECUTION

A. Protection

1. Notification: Notify Engineer 20 days prior to the start of any lead-based paint removal work.

2. Lead Control Area Requirements
   a. If LBP will be removed by means which will not likely create airborne, lead-containing dust (such as careful wet scraping or chemical stripping), establish a lead control area by situating critical barriers and physical boundaries around the area or structure where LBP/LCP removal operations will be performed.
   b. If removal practice will create airborne, lead-containing dust (such as sanding, abrasive blasting, thermal cutting, demolition, or needle gun use), utilize full containment procedures - Contain removal operations by the use of critical barriers and HEPA filtered exhaust or a negative pressure enclosure system with decontamination facilities and with HEPA filtered exhaust if required by the PS, as directed.

3. Protection of Existing Work to Remain: Perform paint removal work without damage or contamination of adjacent areas. Where existing work is damaged or contaminated, restore work to its original condition or better.

4. Boundary Requirements: Provide physical boundaries around the lead control area by roping off the area designated in the work plan or providing curtains, portable partitions or other enclosures to ensure that airborne concentrations of lead will not reach 30 micrograms per cubic meter of air outside of the lead control area.
   a. Physical Boundary: Provide physical boundaries around the lead control area by roping off the area designated in the work plan or providing curtains, portable partitions or other enclosures to ensure that airborne concentrations of lead will not reach 30 micrograms per cubic meter of air outside of the lead control area.
   b. Warning Signs: Provide warning signs at approaches to lead control areas. Locate signs at such a distance that personnel may read the sign and take the necessary precautions before entering the area. Signs shall comply with the requirements of 29 CFR 1926.62.

5. Furnishings:
   Furniture and equipment will remain in the building. Protect and cover furnishings or remove furnishings from the work area and store in a location approved by OWNER.

6. Heating, Ventilating and Air Conditioning (HVAC) Systems: Shut down, lock out, and isolate HVAC systems that supply, exhaust, or pass through the lead control areas. Seal intake and exhaust vents in the lead control area with 6 mil plastic sheet and tape. Seal seams in HVAC components that pass through the lead control area. Provide temporary HVAC system for areas in which HVAC has been shut down outside the lead control area.

7. Decontamination Shower Facility: Provide clean and contaminated change rooms and shower facilities in accordance with this specification and 29 CFR 1926.62.

8. Eye Wash Station: Where eyes may be exposed to injurious corrosive materials, suitable facilities for quick drenching or flushing of the eyes shall be provided within the work area.

9. Mechanical Ventilation System
   a. Use adequate ventilation to control personnel exposure to lead in accordance with 29 CFR 1926.62.
   b. To the extent feasible, use fixed local exhaust ventilation connected to HEPA filters or other collection systems, approved by the PS. Local exhaust ventilation systems shall be designed, constructed, installed, and maintained in accordance with ANSI Z9.2.
   c. Vent local exhaust outside the building only and away from building ventilation intakes.
d. Use locally exhausted, power actuated, paint removal tools.

10. Personnel Protection: Personnel shall wear and use protective clothing and equipment as specified herein. Eating, smoking, or drinking or application of cosmetics is not permitted in the lead control area. No one will be permitted in the lead control area unless they have been appropriately trained and provided with protective equipment.

B. Work Procedures: Perform removal and disposal of lead-based paint in accordance with approved lead-based paint/lead-containing paint removal plan. Use procedures and equipment required to limit occupational and environmental exposure to lead when lead-based paint is removed in accordance with 29 CFR 1926.62, except as specified herein.

1. Personnel Exiting Procedures: Whenever personnel exit the lead-controlled area, they shall perform the following procedures and shall not leave the work place wearing any clothing or equipment worn during the work day:
   a. Vacuum themselves off.
   b. Remove protective clothing in the contaminated change room, and place them in an approved impermeable disposal bag.
   c. Shower or Wash hands and face at the site, as directed, don appropriate disposable or uncontaminated reusable clothing; move to an appropriate facility; shower.
   d. Change to clean clothes prior to leaving the physical boundary designated around the lead control area.

2. Sampling
   a. Sample air for lead in accordance with 29 CFR 1926.62 and as specified herein. Air sampling shall be directed or performed by the PS.
      1. The PS shall be on the job site directing the air sampling and inspecting the lead-based paint removal work to ensure that the requirements of the contract have been satisfied during the entire lead-based paint removal operation.
      2. Collect personal air samples on employees who are anticipated to have the greatest risk of exposure as determined by the PS. In addition, collect air samples on at least 25 percent of the work crew or a minimum of two employees; whichever is greater, during each work shift.
      3. Submit results of air samples, signed by the PS, within 24 hours after the air samples are taken. Notify Engineer immediately of exposure to lead at or in excess of the action level of 30 micrograms per cubic meter of air outside of the lead control area.
   b. Surface sampling shall be conducted as required for to determine clearance (i.e., that the work has not contaminated surfaces within and adjacent to the control area).
      1. Before any work begins, Contractor will collect and analyze baseline wipe samples in accordance with methods defined in federal, State, and local standards inside and outside of the physical boundary to assess the degree of dust contamination prior to lead-based paint removal activities are initiated.
      2. After all work is completed, Contractor will collect and analyze soil or wipe samples in accordance with methods defined in federal, State, and local standards inside and outside of the physical boundary to assess the degree of soil and/or dust contamination after the lead-based paint removal activities are completed.
   c. Area Air Sampling During Paint Removal Work: Owner’s Representative will conduct area air sampling while lead-based paint removal operations are performed, in areas immediately adjacent to the lead control area. Area monitoring shall be conducted to ensure unprotected personnel adjacent to the lead control area are not exposed at or above 30 micrograms per cubic meter of air. If 30 micrograms per cubic meter of air is reached or exceeded, the Contractor will be advised to stop work, and correct the conditions(s) causing the increased levels. Owner’s Representative will determine if condition(s) require any further change in work methods.
C. Lead-Based Paint Removal

1. Provide methodology for removing LBP/LCP in the work plan. Remove paint within the areas designated on the drawings in order to completely expose the substrate. Take whatever precautions necessary to minimize damage to the underlying substrate.

2. Avoid flash rusting or deterioration of the substrate. Coordinate surface preparations as required by Engineer.

3. Provide methodology for LBP/LCP removal processes to minimize contamination of work areas outside the control area with lead-contaminated dust or other lead-contaminated debris/waste and to ensure that unprotected personnel are not exposed to hazardous concentrations of lead. Describe this LBP/LCP removal process in the LBP/LCP-RP.

4. Indoor Lead Paint Removal: Perform manual or mechanical or thermal or chemical, as directed, paint removal in lead control areas using enclosures, barriers, or containments and powered locally exhausted paint removal tools. Collect residue and/or debris for disposal in accordance with federal, State, and local requirements.

5. Sampling After Paint Removal: After the visual inspection, Owner's Representative will collect area air samples inside and outside the lead control area to determine the airborne levels of lead inside and outside the work area. Owner's Representative will collect wipe samples according to the HUD protocol contained in HUD Guidelines to determine the lead content of settled dust and dirt in micrograms per square foot of surface area and parts per million (ppm) or micrograms per gram (μg/g) for soil.

D. Cleanup and Disposal

1. Cleanup: Maintain surfaces of the lead control area free of accumulations of paint chips and dust. Restrict the spread of dust and debris; keep waste from being distributed over the work area. Do not dry sweep or use compressed air to clean up the area. At the end of each shift and when the paint removal operation has been completed, clean the area of visible lead paint contamination by vacuuming with a HEPA filtered vacuum cleaner, wet mopping the area and wet wiping the area as indicated by the PS. Re-clean areas showing dust or residual paint chips or debris. After visible dust, chips and debris is removed, wet wipe and HEPA vacuum all surfaces in the work area. If adjacent areas become contaminated at any time during the work, clean, visually inspect, and then wipe sample all contaminated areas. The PS shall then certify in writing that the area has been cleaned of lead contamination before restarting work.

2. Post-Removal Lockdown/Sealant shall be applied after the PS has certified that the area has been cleaned. Owner, Owner's Representative, and the Contractor shall then review each area to verify that the lockdown/sealant has been completely applied. Final coat shall have a blue tint to indicate coverage area.

3. Clearance Certification

   1) The Contractor shall document in writing and provide analytical documentation to certify that the employee exposure to an airborne concentration of lead were below the required action level, respiratory protection used for the employees was adequate; the work procedures were performed in accordance with 29 CFR 1926.62 and 40 CFR 745; and that there were no visible accumulations of material and dust containing lead left in the work site. Do not remove the lead control area or roped off boundary and warning signs prior to OWNER's acknowledgement of the third party sampling results, if required, and upon receipt of the Contractor certification.

   2) The Owner’s Representative shall certify surface wipe sample results collected inside and outside the work area are less than 100 micrograms per square foot on uncarpeted floors, less than 500 micrograms per square foot on interior window sills and less than 800 micrograms per square foot on window troughs or not significantly greater than the initial surface loading determined prior to work, as directed.

4. Testing of Lead-Based Paint Residue and Used Abrasive: The Contractor shall test paint residue and used abrasive in accordance with 40 CFR 261 for hazardous waste.
5. Disposal
   a. Collect lead-contaminated waste, scrap, debris, bags, containers, equipment, and lead-contaminated clothing, which may produce airborne concentrations of lead particles. Label the containers in accordance with 29 CFR 1926.62 and 40 CFR 261. Dispose of lead-contaminated waste material at an EPA or State approved hazardous waste treatment, storage, or disposal facility off Owner’s property.
   b. Store waste materials in U.S. Department of Transportation (49 CFR 178) approved 55-gallon drums. Properly label each drum to identify the type of waste (49 CFR 172) and the date the drum was filled. OWNER or an authorized representative will assign an area for interim storage of waste-containing drums. Do not store hazardous waste drums in interim storage longer than 90 calendar days from the date affixed to each drum.
   c. Handle, store, transport, and dispose lead or lead-contaminated waste in accordance with 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, and 40 CFR 265. The Contractor shall provide documentation the transporter is authorized to transport the waste, authorized to deliver the waste to the treatment, storage, or disposal facility and the treatment, storage, or disposal facility is authorized to accept the waste. Comply with land disposal restriction notification requirements as required by 40 CFR 268.
   d. All material, whether hazardous or non-hazardous shall be disposed in accordance with laws and provisions and federal, State, or local regulations. Ensure waste is properly characterized. The result of each waste characterization (TCLP for RCRA materials) will dictate disposal requirements.

E. Disposal Documentation: Submit written evidence the hazardous waste treatment, storage, or disposal facility (TSD) is approved for lead disposal by the EPA and State or local regulatory agencies. Submit one copy of the completed manifest, signed and dated by the initial transporter in accordance with 40 CFR 262. Disposal shall be at the Great River Regional Waste Authority.

F. Payment for Hazardous Waste: Final Payment will not be made until signed copies of the manifest from the treatment or disposal facility certifying the amount of lead-containing materials delivered is returned and copies are furnished to the Owner.

END OF SECTION 028313
## Old Lincoln School - Interior Shop Abatement Project - Keokuk Municipal Water Works

### Plan Holders

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<td>7/25/19 9:05 am</td>
<td>Abatement Specialties, LLC</td>
<td>Chris Croxton</td>
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<td>1814 E Avenue NE</td>
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<td>Breckenkamp Painting &amp; Drywall</td>
<td>Mike Breckenkamp</td>
</tr>
<tr>
<td></td>
<td>3820 Stonegate rd</td>
<td>Owner</td>
</tr>
<tr>
<td></td>
<td>Quincy, IL 62305</td>
<td>Tel: 2172428610</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fax: 2172236293</td>
</tr>
<tr>
<td>7/19/19 1:48 pm</td>
<td>CityBlue Technologies</td>
<td>Digital Print Center</td>
</tr>
<tr>
<td></td>
<td>404 SW Adams St</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peoria, IL 61602</td>
<td>Tel: 309-277-3000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fax: 309-277-3063</td>
</tr>
<tr>
<td>7/21/19 6:30 am</td>
<td>Dodge Data &amp; Analytics</td>
<td>Jayalakshmi L</td>
</tr>
<tr>
<td></td>
<td>830 3rd Avenue, 6th floor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>New York, NY 10022</td>
<td>Tel: 877-903-1909</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fax: 877-847-3512</td>
</tr>
<tr>
<td>7/24/19 3:44 pm</td>
<td>Environmental Management Services of Iowa, Inc.</td>
<td>Mark Hogan</td>
</tr>
<tr>
<td></td>
<td>5170 Wolff Road #2</td>
<td>President</td>
</tr>
<tr>
<td></td>
<td>Dubuque, IA 52002</td>
<td>Tel: 5635830808</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fax: 5635832206</td>
</tr>
<tr>
<td>7/19/19 1:48 pm</td>
<td>Klingner &amp; Associates, P.C.</td>
<td>Bryan Bross</td>
</tr>
<tr>
<td></td>
<td>610 North 4th St.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Burlington, IA 52601</td>
<td>Tel: 319.752.3603</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fax: 319.752.3605</td>
</tr>
<tr>
<td>7/25/19 11:46 am</td>
<td>Meyers Driveway</td>
<td>glen meyers</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 488</td>
<td>Owner</td>
</tr>
<tr>
<td></td>
<td>1000 cedar street</td>
<td>Tel: 319 524 7329</td>
</tr>
<tr>
<td></td>
<td>Keokuk, IA 52632</td>
<td>Fax: 319 526 6524</td>
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### ATTENDANCE

**Meeting**  
Pre-Bid Meeting – Old Lincoln School – Interior

**Description**  
Shop Abatement Project

**Project #**  
4448-3/19-2020

**Time**  
10:00 am

**Place**  
Klingner & Associates, PC

**Date**  
July 31, 2019

**Page**  
1 of

**Attendees:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Representing (if appropriate)</th>
<th>Phone Number</th>
<th>E-Mail address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrea Rogers</td>
<td>KMWW</td>
<td></td>
<td><a href="mailto:avogers@kowater.com">avogers@kowater.com</a></td>
</tr>
<tr>
<td>Mike Haney</td>
<td>KMWW</td>
<td>563-583-0808</td>
<td><a href="mailto:mhaney@kowater.com">mhaney@kowater.com</a></td>
</tr>
<tr>
<td>Mark Hogan</td>
<td>EMSI</td>
<td>319-752-9003</td>
<td><a href="mailto:markhoges@aoi.co">markhoges@aoi.co</a></td>
</tr>
<tr>
<td>Bryan Brown</td>
<td>Klingner</td>
<td></td>
<td>6602167195</td>
</tr>
<tr>
<td>Jesse Hasting</td>
<td>Meyers Drivekay</td>
<td></td>
<td><a href="mailto:jhasting3@aol.com">jhasting3@aol.com</a></td>
</tr>
</tbody>
</table>

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**Klingner & Associates, P.C.**  
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- 604 Liberty Street, Suite 120 – Pella, IA (515) 612-7402

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