

Document 00910

**ADDENDUM NO. 2**

Date of Addendum: 5/7/2025

PROJECT NAME: Mason Park Roof Replacement

PROJECT NO: WBS No F-000880-0003-4

PROPOSAL DATE: May 15, 2025

FROM: City of Houston, General Services Department  
900 Bagby, 2nd Floor, City Hall Annex  
Houston, Texas 77002  
Attn: Thomas McWhorter , Project Manager

TO: Prospective Proposers

This Addendum forms a part of the Proposal Documents and will be incorporated into the Contract, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

**CHANGE IN PROPOSAL DATE**

The Proposal Date for this Project is changed from **May 8, 2025** to **May 15, 2025**. Time of day and place for submittal of Proposal remains the same. The place for submittal remains the same.

*This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars ( | ) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.*

**CHANGES TO PROJECT MANUAL**

**PROPOSAL REQUIREMENTS**

1. Document 00210 – Supplementary Instructions to Proposers. Replace in its entirety with attached.

## ADDENDUM

2. Document 00800 – Supplementary Conditions. Replace in its entirety with attached.

### SPECIFICATIONS

3. Division 2 – Site Construction; Section 02830 – Lead Remediation. Add attached document titled 92257409 Lead Paint Work Plan.

END OF ADDENDUM NO. 2

(LJ:           )   
Richard Vella  
Assistant Director  
Real Estate, Design & Construction Division  
General Services Department

DATED: 5/7/2025

Document 00210

## SUPPLEMENTARY INSTRUCTIONS TO PROPOSERS

*The following Paragraphs modify Document 00200 - Instructions to Proposers. Where a portion of the Instructions to Proposers is modified or deleted by these Supplementary Instructions, the unaltered portions of the Instructions to Proposers remains in effect.*

### PARAGRAPH 2.0 – DEFINITIONS:

Add the following sub-Paragraphs to this Paragraph:

- O. *Office of Business Opportunity (OBO):* All references to Affirmative Action Contract Compliance Division (AACC) set forth in Document 00700 – General Conditions and in other documents of the Project Manual, shall refer to, and include the Office of Business Opportunity.
- P. Director: Director, General Services Department, City of Houston.

### PARAGRAPH 3.0 – NOTICE TO PROPOSERS

- H. The City will award this contract to a “Local Business”, as that term is defined in Section 15-176 of the City of Houston Code of Ordinances (“the Code”):
  - If the Proposal of the Local Business is less than \$100,000 and is the lowest responsible Proposal or is within 5% of the lowest Proposal received, or
  - If the Proposal of the Local Business is more than \$100,000 and is the lowest responsible Proposal or is within 3% of the lowest Proposal received, and
  - Unless the Director determines that such an award would unduly interfere with contract needs, as provided in Section 15-181 of the Code.

If there is no Proposal of a Local Business that meets these criteria, the City will award the contract to the lowest responsible Proposer.

### PARAGRAPH 4.0 – PROPOSAL DOCUMENTS

- A. Add the following Paragraph A.1:
  - 1. Proposal documents may only be obtained electronically at the City’s website: <https://www.civcastusa.com/bids>

D. Add the following Paragraph D.1:

1. Copies of the City Standard Specifications and Details may be acquired at no cost on the City's website  
<https://www.houstonpermittingcenter.org/office-city-engineer/design-and-construction-standards>

E. Add the following sub-Paragraph E.1:

1. **Designation as a Hire Houston First City Business (CB) or Local Business (LB)**

To be designated as a City Business ("CB") or as a Local Business ("LB") for the purposes of the Hire Houston First Program, as set out in Article XI of Chapter 15 of the Houston City Code, a Proposer or proposer must submit the **Hire Houston First Application and Declaration** to the Director of the Office of Business Opportunity and receive notice that the application has been processed and the appropriate designation (if any) is awarded, prior to the submission of a bid or proposal. Proposers must show evidence of HHF designation (as applicable) prior to, or accompanying, the submission of a bid or proposal.

The absence of a Hire Houston First designation does not preclude a business from bidding on City of Houston contracts.

**Download the HHF Application and Declaration** from the Office of Business Opportunity Webpage at the City of Houston e-Government Website, located at:

<http://www.houstontx.gov/obo/hirehoustonfirst.html>

or, delivered to:

Office of Business Opportunity  
611 Walker, 7th Floor  
Houston, Texas 77002.  
Phone: (832) 393-0951  
Fax: (832) 393-0646  
[hirehoustonfirst@houstontx.gov](mailto:hirehoustonfirst@houstontx.gov)



PARAGRAPH 5.0 – EXAMINATION OF DOCUMENTS, SITE, AND LOCAL CONDITIONS

D. Add the following sub-Paragraph D.1:

1. Area within contract limits is currently restricted. Access for examination is restricted to times, durations, routes and presence of City authorities, occurring at the conclusion of the Pre-Proposal Meeting or as otherwise directed by City Engineer. See Paragraph 15.0 below.

PARAGRAPH 8.0 – SUBSTITUTION OF PRODUCTS

**NOT ALLOWED**

PARAGRAPH 9.0 – PREPARATION OF PROPOSALS

Add the following sub-Paragraph I to this Paragraph:

- I. For math errors the City encounters in analyzing Proposals, the following guidance will be used:

In the event of a conflict between:

The Proposal Price is:

- |  |   |
|--|---|
| 1. Individual Unit Price and Extension of that Unit Price  | Individual Unit Price times Estimated Quantity  |
| 2. A Unit Price extension and total of Unit Price Extensions   | Sum of all Individual Unit Price Extensions   |
| 3. Individual Alternate and total of Alternates  | Sum of all Individual Alternates  |
| 4. Individual subtotals for Stipulated Price, Base Unit Prices, Extra Unit Prices, Contractor Bonus, Cash Allowances, and Alternates; and the Total Proposal Price | Sum of Individual subtotals for Stipulated Price, Base Unit Prices, Extra Unit Prices, Contractor Bonus, Cash Allowances and Alternates |

**PARAGRAPH 10.0 – PROPOSAL SUBMISSION**

A. Add the following sub-Paragraph A.1:

1. City will utilize online bidding services via CivCast at <https://www.civcastusa.com/bids>. Electronic Proposals are due at 10:30 a.m., local time on May 15, 2025. Follow submittal instructions on <https://www.civcastusa.com/>. Hard Copies will not be accepted for this Proposal Submission. Proposals will be opened, and the Proposal Results will be posted on Civcast on Proposal Date. Proposal Results will not be read out loud by City Secretary but may be read aloud utilizing Microsoft Teams as noted in the advertisement.

**PARAGRAPH 15.0 – PRE-PROPOSAL MEETING**

A. Add the following sub-Paragraph A.1:

1. A Pre-Proposal Meeting will be held at 10:00 am on Tuesday, April 15, 2025 on Microsoft Teams as noted in the advertisement.

**END OF DOCUMENT**

Document 00800

**SUPPLEMENTARY CONDITIONS**

The following Paragraphs amend and supplement the October 28, 2024 edition of the General Conditions. Unaltered portions of General Conditions remain in effect.

**ARTICLE 1**  
**GENERAL PROVISIONS**

1.1 *DEFINITIONS: Insert the following Subparagraph 1.1.30.1 and reorder the remaining definitions accordingly.*

1.1.30.1 *Incidental Work:* Work described as incidental shall be work defined in Document 01110 - Summary of Work, that do not have a direct pay item listed in the Document 00410B - Bid Form Part B, or less than 1% of the Contract Price and not capable of being measured. If Work is identified as Incidental Work and also covered by Bid Form Part B quantities, then the unit price item quantities in the Bid Form Part B shall govern.

**ARTICLE 3**  
**THE CONTRACTOR**

3.5 *LABOR; MINORITY AND WOMEN BUSINESS ENTERPRISE COMPLIANCE: Insert the following Subparagraph 3.5.3.1, Subparagraph 3.5.3.2, and Subparagraph 3.5.3.3.*

3.5.3.1 If the Original Contract Price is greater than One Million Dollars, Contractor shall make Good Faith Efforts to comply with the City ordinances regarding Minority Business Enterprises (MBE), Women Business Enterprises (WBE), Persons with Disabilities Business Enterprises (PDBE) and Small Business Enterprise (SBE) participation goals which are as follows:

- 3.5.3.1.1 the MBE goal is 17 percent,
- 3.5.3.1.2 the WBE goal is 5 percent, and
- 3.5.3.1.3 the PDBE goal is 0 percent.
- 3.5.3.1.4 Up to 50% of the advertised goal may be met at the Prime level if the Prime is a City-certified firm. The bidder must select one (1) certification type for Prime level credit. Prime level participation percentage must not exceed the individual MBE or WBE advertised goal. Prime level credit does not apply to SBE-certified firms.
- 3.5.3.1.5 On a subcontracting level only, the bidder may substitute SBE participation of no more than four percent of the MBE goal, the WBE goal, or portions of the MBE goal and WBE goal.



- 3.5.3.1.6 The bidder may not use Native-American-owned firms that are certified as MBEs to meet MBE contract goals. Native-Americans firms can only be used as SBEs in fulfillment of the above stated goals.
- 3.5.3.1.7 The bidder may not use MWSBE Suppliers to account for more than 50% of the MWSBE participation plan.

3.5.3.2 The MBE, WBE, PDBE, and SBE goals are specific to this Agreement. The Contractor shall make reasonable efforts to achieve these goals.

3.5.3.3 Failure by Contractor to comply with the goals for MBE, WBE, SBE, or PDBE is a material breach of the Agreement, which may result in termination of the Agreement, or such other remedy permitted as the City deems appropriate.

## **ARTICLE 7** **CHANGES IN THE WORK**

7.1 CHANGES: Replace Paragraph 7.1.2 with the following Paragraph 7.1.2.

- 7.1.2 The following types of Change Orders require City Council approval:
- .1 a single Change Order that exceeds ten percent of Original Contract Price,
  - .2 a Change Order which, when added to previous Change Orders, exceeds ten percent of Original Contract Price,
  - .3 a Change Order, in which the total value of increases outside of the general scope of work approved by City Council, when added to increases outside the general scope of work approved by City Council in previous Change Orders, exceeds 40 percent of the Original Contract Price, even if the net increase to the Original Contract Price is ten percent or less. In this context, "increase" means an increase in quantity resulting from the addition of locations not within the scope of work approved by City Council, or the addition of types of goods or services not bid as unit price items.

Nothing in this Paragraph is intended to permit an increase of the Contract Price in excess of the limit set out in Tex. Loc. Gov't Code Ann. §252.048 or its successor statute.

## **ARTICLE 8** **TIME**

8.1 *PROGRESS AND COMPLETION: Add the following Subparagraph 8.1.6.1.*

8.1.6.1 Contractor shall credit the City by Change Order for inspection services for overtime work or work performed on Sundays or Legal Holidays. The amount Contractor credits the City will be [actual costs] per inspector for inspection services.



**ARTICLE 9**  
**PAYMENTS AND COMPLETION**

9.1 References to Unit Prices in individual Specification sections are not applicable to the Contract. Include payment for portions of the Work required by these sections in the Stipulated Price for the Contract.

9.12 *LIQUIDATED DAMAGES:*

9.12.1.1 The amount of liquidated damages payable by Contractor or Surety for each and every day of delay beyond Contract Time, are \$800 per day.

**ARTICLE 11**  
**INSURANCE AND BONDS**

11.2.1.2 Contractor shall purchase for the duration of the Contract the insurance set out in Table 2 in addition to the minimum insurance coverage set out in Paragraph 11.2.1.

**TABLE 2**  
**ADDITIONAL REQUIRED COVERAGE**  
**DEFENSE COSTS EXCLUDED FROM FACE AMOUNT OF POLICY.**

<u>Contractor's Pollution Liability:</u>	\$1,000,000 each occurrence
--	-----------------------------

Including pollution coverage for Contractual Liability, Clean-up costs, Abatement, Transport, and Non-owned disposal sites. Including Bodily Injury Liability, Property Damage Liability, and environmental damage arising from pollution conditions caused in performance of operations. Including Asbestos and Lead if part of operations.

(MCS - 90 endorsement to Auto Policy and removal of Pollution Exclusion)	\$1,000,000 CSL
--	-----------------

(Coverage)

Property and Casualty Coverage:  
"All Causes of Loss" Builder's Risk Form for directing physical change to building or plant construction on the Work site and/or all land improvements including all work. (Including but not limited to earthquake, flood, boiler, and machinery including testing, damage to existing or adjoining property, time element coverage, collapse, soft costs (management, architecture, financial costs, pre-opening costs, etc.), transit coverage, off-site storage).

(Limit of Liability)

100% of Contract Price, including change orders

END OF DOCUMENT

11555 Clay Road, Suite 100  
Houston, Texas 77043  
P (713) 690-8989  
F (713) 690-8787  
Terracon.com

# Lead-Based Paint Work Plan

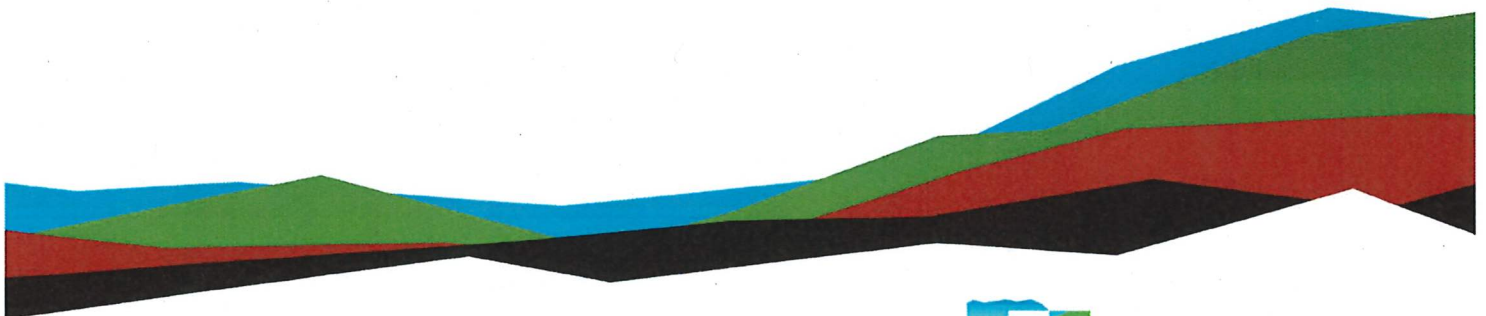
Mason Park Community Center  
541 South 75<sup>th</sup> Street  
Houston, Texas

April 17, 2025 | Project Number: 92257409

Prepared for:

ENGLISH +  
ASSOCIATES  
ARCHITECTS

1919 Decatur Street  
Houston, Texas



*Aaron Dominguez*

Aaron Dominguez  
Lead Risk Assessor  
Certification Number 2071212

*Jeff A. Delise*

Jeff A. Delise  
Senior Project Manager

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# **Lead-Based Paint Work Plan**

Mason Park Community Center

541 South 75<sup>th</sup> Street

Houston, Texas

Terracon Project No. 92257409

April 17, 2025

## **1.0 INTRODUCTION & BACKGROUND**

The subject structures consist of the Community Center, Clubhouse, and Pool Building at Mason Park Community Center located in Houston, Texas. The exterior finishes of these buildings include stucco, metal, masonry and wood decking. According to the Lead Inspection Report prepared by Terracon (dated January 6, 2025) and the construction drawings provided, the scope of work involves the repair and replacement of various building and roofing systems. This includes windows and door systems scheduled for replacement or refurbishment, and repairs to exterior stucco, exterior walls, fascia, trim, and other exterior architectural elements potentially coated with lead-based paint (LBP). These components have either been previously identified or are assumed to contain lead-based paint (LBP) coatings.

The purpose of this Lead-Based Paint Work Plan is to serve as a guidance document for the selected contractor impacting previously identified or assumed LBP coatings as required for the completion of this project. Terracon is not responsible for the contractor's means or methods. The listing or mention of any method of installation, erection, fabrication, or workmanship shall not operate to make Terracon an agent of the Owner or contractor but shall be for the sole purpose of setting a standard of quality for the finished work.

Lead-based paint activities shall be conducted according to all applicable Federal, State, and local rules/regulations. Construction work, including maintenance, painting, alteration, repairs, or demolition activities in connection with paints and/or coatings with any detectable concentration of lead is subject to Occupational Safety and Health Administrations (OSHA) 29 CFR 1926.62. This facility is not currently classified as a Child-Occupied Facility under the Texas Environmental Lead Reduction Rules (TELRR) as outlined in 25 TAC §§295.201–295.220 or HUD regulations. However, references to these regulations or guidance documents are included to establish the standards for this project.

## Lead-Based Paint Work Plan

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## 2.0 SCOPE OF WORK & PROJECT COORDINATION

The scope of this project includes the following items summarized below:

Component	Substrate	Description	Quantity / Area <sup>1</sup>	Scope of Work
Windows <sup>2</sup>	Wood	Standard Units	48 units @ 42" x 48"	Component Removal or Paint Encapsulation
		Narrow Units	2 units @ 18" x 48"	
Exterior Louvers and Trim <sup>2</sup>	Metal	Metal Louvers – Large	4 units @ 36" x 60"	Component Removal or Paint Encapsulation
	Metal	Metal Louvers – Small	4 units @ 12" x 24"	
	Metal	Metal Louvers – Round	2 units @ 9" R	
	Wood	Wood Louvers	53 units @ 36" x 48"	
Exterior Doors & Frames <sup>2</sup>	Metal	Metal Door Leaves	28 leaves @ 36" x 84"	Component Removal or Paint Encapsulation
	Metal	Metal Door Frames - Single	10 frames @ 36" x 84"	
	Metal	Metal Door Frames - Double	13 frames @ 72" x 84"	
Exterior Walls (Stucco) <sup>2</sup>	Stucco	Community Center	Approx. 7,630 SF	Paint Encapsulation
	Stucco	Clubhouse	Approx. 3,726 SF	
	Stucco	Pool Building	Approx. 3,718 SF	
Roof Flashing and Trim <sup>2</sup>	Metal and/or Wood	Community Center	Approx. 856 LF	Component Removal or Paint Encapsulation
	Metal and/or Wood	Clubhouse	Approx. 332 LF	
	Metal and/or Wood	Pool Building	Approx. 378 LF	

<sup>1</sup> Quantities are estimates provided by the client and must be verified by the contractor prior to bidding

<sup>2</sup> Materials identified with LBP

Please note, additional components may be impacted throughout the duration of this project that are either known to have LBP or will be verified later. Impact to these components shall follow the procedures listed within this work plan.

OSHA does not define lead-containing coatings. Any detectable level of lead presents a potential source of exposure depending on how the material is disturbed. Therefore, Terracon recommends that potential contractors are made aware of the findings of the attached lead paint survey. Personnel and/or contractors should utilize work practices pursuant to the OSHA lead standard (29

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CFR 1926.62) when impacting lead-containing components. The full OSHA lead standard should be referenced for compliance.

### 2.1 General

The term "Contractor" will be used throughout and refers to the contractor performing renovation work impacting LBP and/or components containing with LBP. "English and Associates, Inc." and "Owner" shall be considered synonymous in this design. Additionally, "Terracon" and "Project Monitor" shall be considered synonymous in this document.

The Contractor shall be licensed by the Texas Department of State Health Services (DSHS) and must be a certified Lead Firm with certified Lead Renovators by the EPA and/or a Texas-licensed Lead Abatement Contractor. The Contractor shall demonstrate relevant experience and competence in projects of similar scope and complexity to ensure compliance with applicable Federal, State, and local regulations. The Contractor shall be responsible for inspecting the site prior to pricing the project to confirm the scope of the work. Any quantities listed by this work plan or other related documents are done so as estimations. **The Contractor is responsible for measurements and quantifying the work.**

The Contractor shall furnish and is responsible for all costs including, but not limited to permit fees, containment preparation, scaffolding, labor, materials, services, insurance, and equipment necessary to carry out the scope of work. All work including impacting LBP or components containing LBP will be performed in accordance with this work plan, applicable Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) regulations, and any other applicable state and local government regulations.

The Contractor/employer has and assumes the responsibility of proceeding in such a manner that he offers his employees a workplace free of recognized hazards causing or likely to cause death or serious injury. The Contractor shall be responsible for performing the work and disposal so that lead dust/fume levels do not exceed the established levels of the personal protective equipment provided to employees.

The Contractor will be responsible for all costs associated with employee monitoring to meet the OSHA requirements.

The Contractor is responsible for all costs, including additional visits, should the Project Monitor and/or the Owner determine that the Contractor failed a final assessment or clearance sampling event for any work area. Notification and scheduling of final assessments or clearance sampling events during the project is the responsibility of the Contractor. The Contractor will allow a minimum notice of twenty-four (24) hours unless the Owner and the Contractor agree upon a different time frame.

Contractor shall coordinate all LBP activities with the Owner. Owner shall have continuous use of areas not included in the scope of this project.

The Contractor shall be responsible to adhere to all security requirements imposed by the Owner.



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## **2.2 Personnel**

### **A. Personnel**

1. The contractor's supervisor must be accredited as a Lead Abatement Supervisor in accordance with the Texas Environmental Lead Reduction Rules (TELRR) under 25 TAC §§295.201–295.220. A documented training session must then be performed by the supervisor and/or competent person for the workers. Training shall be documented and performed in accordance with OSHA 1926.62(l)(2).

### **B. Competent Person**

1. A competent person, as defined in the OSHA lead in construction standard 29 CFR 1926.62, employed by the Contractor must be on site during LBP activities to monitor activity, ensure security, provide information to visitors, and provide access to the work area.
2. The competent person, employed by the Contractor, shall be bilingual in the appropriate languages when employing workers who do not speak fluent English.

### **C. Employees**

1. The Contractor is responsible for the behavior of workers within his employment. If at any time during the contracted work, any of his employees are judged to exhibit behavior unfitting for the area or judged to be a nuisance by the Owner or the Project Monitor, the Contractor shall remove them immediately from the project.
2. The Contractor shall be responsible for compliance with the following concerning employee behavior:
  - a. Under no circumstances are alcohol, drugs, or any other type of controlled substances permitted on the property.
  - b. Firearms are not permitted on the property.
  - c. All workers are restricted to the construction project site only.
  - d. All workers must conform to the following basic dress code when in public areas of the project confines: long pants, shirts, no tank tops, no shorts, no bare backs.
  - e. The Contractor is responsible for disposal of all trash brought on the property by his employees, including drink cans, bottles or other food containers and wrappers.
  - f. Eating, drinking, and smoking are not allowed in the containment area(s).
3. Failure to adhere to these rules could result in criminal prosecution and/or removal from the property.

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## **2.3 Meetings**

### **A. Preconstruction**

1. A preconstruction meeting may be held prior to starting the project. The purpose of the preconstruction meeting is to finalize the work schedule and review the requirements of the job. The Contractor's representative at this meeting must be able to commit to schedule and project requirements that will be addressed at this meeting.

## **2.4 Pre-Job Submittals**

The contractor shall follow approved submittal procedures as established by the Owner or Project Monitor. Pre-Job submittals for this scope of work include:

1. Employee List: Provide copies of lists of supervisors and workers, along with their LBP accreditations, to be utilized on the project.
2. Medical: Include individually signed forms by each worker to be utilized on the project documenting that each is actively involved in a company employee medical surveillance program.
3. Respirator Training: Copies of most recent fit testing records, individually signed for each worker to be utilized on the project. Include individually signed statements from each employee that they have received training in compliance with 29 CFR 1910.134.
4. Project Schedule: Time schedule for the project, outlining the proposed start, setup, clearances, etc. for the various phases of the project.
5. Initial Exposure Assessment: As required by the OSHA lead in construction standard 29 CFR 1926. 62.
6. Any other programs or training as outlined by the OSHA and EPA standards.

## **2.5 Post-Job Submittals**

The contractor shall maintain and submit all relevant project documentation as required by the Owner or Project Monitor upon completion of the work. Post-Job submittals for this scope of work include:

1. Affidavits: The Contractor's affidavit of payment of debts and claims, affidavit of release of liens, and consent of surety company to final payment.
2. Manifest: Waste shipment record receipt of utilized landfill which acknowledges the Contractor's delivery(s) of waste material. Include date, quantity of material delivered, and signature of authorized representative of landfill. Also, include name of waste transporter and all other requirements per instructions the waste manifest form.
3. Daily Supervisor Log: A copy of all daily logs showing the following: name, date, entering and leaving time, company or agency represented, reason for entry for all persons entering the

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work area, employee's daily air monitoring data as required by the OSHA standards, and written comments by inspectors, industrial hygienists, Designers and visitors.

4. Workers: Copies of respirator training and fit test documentation of all new employees hired during the project.
5. Special Reports: All documents generated under Section 2.6.

## **2.6 Special Reports**

General: Except as otherwise indicated, submit special reports to the Project Monitor within one (1) day of occurrence requiring the special report, with copies to others affected by occurrence. Also keep a copy in the project logbook.

- A. Reporting Unusual Events: When an event of unusual and significant nature occurs at site (examples: failure of negative pressure system, rupture of temporary enclosures), prepare and submit a special report to the Owner and Project Monitor immediately, listing chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information. When such events are known or predictable in advance, advise the Project Monitor in advance at earliest possible date.
- B. Reporting Accidents: Prepare and submit reports of significant accidents, at site and anywhere else work is in progress. A complete copy of the accident report shall be provided to the Owner and the Project Monitor within 24-hours of the accident occurrence. Record and document date and actions; comply with industry standards for reporting accidents. For this purpose, a significant accident is defined to include events where personal injury is sustained, or property loss of substance is sustained, or where the event posed a significant threat of loss or personal injury.

## **2.7 Contingency Plan**

Contingency Plan: The Contractor shall prepare a site-specific contingency plan for emergencies including fire, accident, power failure, negative pressure system failure (if applicable), supplied air system failure (if applicable), evacuation of injured persons for both life threatening and non-life threatening, or any other event that may require modification or abridgment of decontamination or work area isolation procedures. Include in this plan specific procedures for decontamination or work area isolation. Note that nothing in this work plan should impede safe exiting or providing adequate medical attention in the event of an emergency. The plan will be completed prior to beginning any on-site work and shall be always kept on-site.

## **3.0 REGULATORY OVERVIEW**

The Contractor shall assume full responsibility and liability for compliance with all applicable federal, state and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site.



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- A. The following regulations published by the Environmental Protection Agency (EPA):
  - 1. "Lead-Based Paint Activities: Training, Certification, and Work Practice Requirements," 40 CFR Part 745
  - 2. "Resource Conservation and Recovery Act (RCRA)," 40 CFR Part 260, 261, 262, 263, 264
- B. The following regulations published by the U.S. Department of Labor, OSHA:
  - 1. "Respiratory Protection," Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
  - 2. Construction Industry, Title 29, Part 1926, of the Code of Federal Regulations.
  - 3. "Access to Employee Exposure and Medical Records," Title 29, Part 1910, Section 20 of the Code of Federal Regulations.
  - 4. "Hazard Communication," Title 29, Part 1926, Section 59 of the Code of Federal Regulations.
  - 5. "Specifications for Accident Prevention Signs and Tags," Title 29, Part 1910, Section 145 of the Code of Federal Regulations.
  - 6. "Lead in Construction Standard," 20 CFR 1926.62.
  - 7. Fall Protection Standard, 29 CFR 1926 Subpart M.
- C. The following documents published by the American National Standards Institute:
  - 1. "Fundamentals Governing the Design and Operation of Local Exhaust Systems," Z9.2 1979.
  - 2. "American National Standard for Respiratory Protection –Respiratory Use Physical Qualifications for Personnel," Z88.6 1984.
  - 3. "Practices for Respiratory Protection," Z88.21992.
- D. The following regulations and guidelines published by the U.S. Department of Housing and Urban Development (HUD):
  - 1. "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing," Second Edition, July 2012.
- E. The following regulations published in the Texas Administrative Code (TAC)
  - 1. Texas Environmental Lead Reduction Rules (TELRR) under 25 TAC §§295.201–295.220: Lead-Based Paint Activities - Recognition, Accreditation, Licensure, and Standards for Conducting Lead-Based Paint Activities.



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## **4.0 TEMPORARY FACILITIES**

### **4.1 General**

- A. Provide temporary facilities as required herein or as necessary to carry out the work.
- B. Use qualified tradesmen for installation of temporary services and facilities. Locate, modify and extend temporary services and facilities where they will serve the project adequately and result in minimum interference with the performance of the work.
- C. The Contractor is responsible for the lock and tag out of all power sources as applicable.

### **4.2 Electrical Service**

- A. It is assumed electricity will be available at the structure.
- B. Ground Fault Protection: The contractor shall use outlets equipped with ground fault circuit interrupters (GFCI), reset button and pilot light, for plug-in connection of power tools and equipment. All GFCI shall be located outside of the containment areas. All powered equipment shall be connected to a GFCI.
- C. If necessary, the Contractor will be responsible for installing temporary lighting adequate to provide sufficient illumination for safe work and traffic conditions in every area of work.

### **4.3 First Aid**

- A. A minimum of one first aid kit shall be on site. Additional first aid kits as the Contractor feels is adequate or is required by law shall be located throughout the work areas.

### **4.4 Fire Extinguishers**

- A. Comply with the applicable recommendations of NFPA Standard 10 - "Standard for Portable Fire Extinguishers." Locate fire extinguishers where they are most convenient and effective for their intended purpose but provide not less than one extinguisher in each work area equipment room and one in the clean rooms of the personnel decontamination units.

### **4.5 Toilet Facilities**

- A. The Contractor must provide toilet facilities and toiletries (i.e., toilet paper). No toilet facilities or toiletries are available at the site.

### **4.6 Building Security**

- A. The Contractor is responsible for constructing and maintaining secure work areas including the entry/exit areas. The work areas shall be restricted to authorized, trained, and protected personnel. These may include the Contractor's employees, employees of approved

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subcontractors, state representatives, and any other designated individuals. The Contractor shall establish a list of authorized personnel prior to job start and post this list at the entrance of the work area or within a decontamination facilities. Work locations will be appropriately identified utilizing warning signs as required by OSHA and all city, state, and federal regulations. The Contractor is responsible for creating and maintaining a secure work area during the entire project.

- B. The Contractor is responsible for maintaining secure entry/exit locations at the facility while work is being completed. The Contractor is responsible for coordinating building security with the Owner.
- C. Access to the interior work areas shall be through a single decontamination system (if a negative pressure enclosure is needed). All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the work area. The only exceptions to this rule are the waste pass-out air lock, which shall be sealed except during the removal of bagged lead waste from the work area, and emergency exits in case of fire or accident. Emergency exits within the work area shall not be locked from the inside; however, they shall be sealed with pre-scored polyethylene sheeting and high-visibility tape until needed. Keep a razor knife taped to the polyethylene sheeting for emergency egress.

## **4.7 Storage**

- A. Supply temporary storage required for storage of equipment and materials for duration of project. Trailer and storage dumpsters will be maintained in areas designated by the Owner.

## **5.0 WORKER PROTECTION**

### **5.1 General**

- A. Provide worker protection as required by OSHA, state and local standards applicable to the work. The Contractor is solely responsible for enforcing worker protection requirements at least equal to those specified in this section.
- B. Each time the work area is entered the Contractor shall require all persons to put on new disposable coveralls, new head cover, and a clean respirator. Protective clothing may be worn over street clothes.
- C. Workers shall not eat, drink, smoke, chew gum or chew tobacco in the work areas, the equipment rooms, the load out areas, or the clean rooms.
- D. Whenever personnel exit the work area(s), they shall perform the following procedures and shall not leave the workplace wearing any clothing or equipment worn during the work day:
  - 1. Vacuum themselves off using a HEPA vacuum.
  - 2. Remove protective clothing in the contaminated change room and place them in an approved impermeable disposal bag.

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3. Wash hands and face at the site, don appropriate disposable or uncontaminated reusable clothing.
4. Change to clean clothes prior to leaving the physical boundary designated around the lead control area.

## **5.2 Worker Training**

- A. Train all workers in accordance with 29 CFR 1926 regarding the dangers inherent in handling lead paint, breathing lead dust and fumes, proper work procedures, and personal and area protective measures.

## **5.3 Medical Examinations**

- A. Provide medical examinations for all workers. Examination shall at, a minimum, meet OSHA requirements as set forth in 29 CFR 1926.

## **5.4 Protective Clothing**

- A. Provide disposable full-body coveralls and disposable head covers and require that they be worn by all workers in the work area. Provide enough for all required changes, for all workers in the work area.
- B. Boots: Provide sturdy, over the ankle work boots with non-skid soles and, where required by OSHA, foot protection for all workers. Do not allow boots to be removed from the work area for any reason, after being contaminated with lead dust.
- C. Gloves: Provide work gloves to all workers and require that they be worn at the appropriate times. Do not remove gloves from work area. Dispose of work gloves as contaminated waste at the completion of the project. Chemical resistant gloves must be provided when using chemical strippers to remove lead-based paint.
- D. Safety Glasses: Provide OSHA approved safety glasses with side shields to be worn at all times in all construction areas. Thoroughly clean and decontaminate before removing them from work area at the end of the project.
- E. Hard Hats: Provide OSHA approved hard hats for the duration of the project. Hard hats should be worn at all times when on the project site. Thoroughly clean and decontaminate hats before removing them from work area at the end of the project.

## **5.5 Additional Protective Equipment**

- A. The appropriate level of respiratory protection (i.e. half-face air purifying respirators with replaceable HEPA filters) disposable coveralls, head covers and footwear covers shall be provided by the Contractor for the Owner the Project Monitor and other authorized representatives who may inspect the job site.



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### **5.6 Washing Facilities**

- A. Provide washing facilities to be used by all workers when exiting the work area.
  - 1. Provide temporary sink with hot and cold-water supply.
  - 2. Supply enough soap and towels for the workers and authorized visitors.

### **5.7 Eyewash Station**

- A. Where the eyes of employees may be exposed to injurious corrosive materials, suitable facilities for flushing of the eyes shall be provided within the work area for immediate emergency use.

## **6.0 RESPIRATORY PROTECTION**

### **6.1 Description of Work**

- A. Instruct and train each worker involved in LBP disturbance work in proper respirator use and require that each worker always wear a respirator, properly fitted on the face, in the work area from the start of any operation which may cause airborne lead dust until the work area is completely decontaminated. Use respiratory protection appropriate for the dust level encountered in the workplace or as required for other toxic or oxygen-deficient situations encountered.

### **6.2 General**

- A. Provide workers with personally issued and marked respiratory equipment approved by the National Institute for Occupational Safety and Health (NIOSH) and suitable for the lead exposure levels in the work areas according to OSHA Standard 29 CFR 1926.62 and other possible contaminants employees might be exposed to during the project.
- B. Provide respiratory protection from the time the first operation involved in the project requires contact with LBP (including construction of decontamination units, construction of airtight barriers/barricades, and placing of plastic sheeting on walls) until acceptance of final clearance test results by the Owner.
- C. The minimum respiratory protection for this project shall be half-face air purifying respirators (APRs) with HEPA filters. For using the half-face, negative pressure APRs, supply a sufficient quantity of respirator HEPA filters (P100), so that workers can change filters as necessary. Require that respirators be wet-rinsed, and filters discarded or covered with duct tape, each time a worker leaves the Work Area. Store respirators and filters at the job site in the changing room and protect totally from exposure to lead prior to their use. Respirator cartridges must be replaced whenever a worker experiences increased breathing resistance.

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- D. Respirator fit testing shall be performed as a minimum at the beginning of the project, at any change in respiratory protection equipment, and at any time during the project if requested by the employee.
- E. Do not allow the use of single-use, disposable or quarter-face respirators for any purpose.

## **7.0 WORK AREA PREPARATION AND GENERAL WORK PRACTICES**

### **7.1 General**

- A. Completely isolate each work area from other parts of the building to prevent contamination beyond the work area.
- B. Appropriate signage per 29 CFR 1926.62 shall be posted at entrances, critical barriers, and barrier tape for each work area.
- C. 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.
- D. Perform work without damage or contamination of adjacent areas. Where existing work is damaged or contaminated, restore work to its original condition or better.
- E. All LBP work areas shall be pre-cleaned using HEPA vacuums.
- F. The Contractor must post signs clearly defining the work area and warning occupants and other persons not involved in LBP activities to remain outside of the work area. To the extent practicable, these signs must be in the primary language of the occupants. These signs must be posted before beginning the project and must remain in place and readable until project completion.
- G. Before beginning work, the Contractor must isolate the work area utilizing 6-mil poly sheeting so that no dust or debris leaves the work area while the work is being performed. In addition, the Contractor must maintain the integrity of the containment by ensuring that any plastic or other impermeable materials are not torn or displaced and taking any other steps necessary to ensure that no dust or debris leaves the work area while the renovation is being performed. The Contractor must also ensure that the work area is installed in such a manner that it does not interfere with occupant and worker egress in an emergency.
- H. Work Areas
  - 1. Interior work areas:
    - a. The Owner or Facility Operator shall remove all personal, moveable objects from the work area, including furniture, rugs, and window coverings, etc. If they cannot be

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moved, the Contractor shall cover them with 6-mil polyethylene sheeting with all seams and edges taped or otherwise sealed.

- b. The Contractor shall close and cover all ducts opening in the work area with taped-down 6-mil polyethylene sheeting.
- c. Close windows and doors in the work area. Doors must be covered with 6-mil polyethylene sheeting. Doors used as an entrance to the work area must be covered with at least two flaps of 6-mil polyethylene sheeting in a manner that allows workers to pass through while confining dust and debris to the work area (Z-flaps).
- d. Fans shall be turned off. The HVAC system shall be turned off and sealed and/or isolated.
- e. Cover the floor surface, including installed carpet, with taped-down 6-mil polyethylene sheeting in the work area 10 feet beyond the perimeter of surfaces undergoing disturbance or a sufficient distance to contain the dust, whichever is greater. Floor containment measures may stop at the edge of the vertical barrier when using a vertical containment system consisting of impermeable barriers that extend from the floor to the ceiling and are tightly sealed at joints with the floor, ceiling and walls.
- f. Use precautions to ensure that all personnel, tools, and other items, including the exteriors of containers of waste, are free of dust and debris before leaving the work area.
- g. Establish a negative air environment using HEPA equipped air movers which discharge out of the building

### 2. Exterior work areas:

- a. Close all doors and windows within 20 feet of the work.
- b. Ensure that entry/exit pass throughs within the work area that will be used while the job is being performed are covered with 6-mil polyethylene sheeting in a manner that allows workers to pass through while confining dust and debris to the work area. Entry/exit locations should be constructed using the Z-flap method.
- c. Daily cleanup of horizontal surfaces within 20 feet of disturbed surfaces is required.
- d. Cover the ground with 6-mil polyethylene sheeting extending 10 feet beyond the perimeter of surfaces undergoing renovation and repair or a sufficient distance to collect falling paint debris, whichever is greater, unless the property line prevents 10 feet of such ground covering. Ground containment measures may stop at the edge of the vertical barrier when using a vertical containment system. If work is above the ground floor, sheeting should extend 20 feet.



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- e. Where exterior component or paint removal is being performed, 6-mil polyethylene sheeting shall be applied as a barrier along the component's associated exterior wall. The barrier's construction should be sufficient to maintain an airtight seal for an undetermined time.
  - f. Establish temporary walls using 6-mil polyethylene sheeting and either wood/metal framing. The barrier's construction should be sufficient to maintain an airtight seal for an undetermined time.
  - g. Establish a negative air environment using HEPA equipped air movers which discharge out of the work area.
  - h. Remove all movable items (playground equipment, toys, sandboxes, outdoor and furniture) to at least a 20-foot distance from working surfaces. Items that cannot be readily moved to a 20-foot distance must be sealed with taped protective sheeting.
  - i. Do not conduct exterior work if the wind speeds are greater than 20 miles per hour or if dust and debris cannot be adequately contained.
  - j. Post warning signs on the building and at the 20-foot perimeter around the building.
1. Prohibited removal methods:
- a. Open flame burning or torching (includes propane-fueled heat grids);
  - b. Chemical stripping with methylene chloride-based paint strippers;
  - c. Paint stripping in a poorly ventilated space using volatile stripper;
  - d. Uncontained abrasive blasting;
  - e. Heat guns operating above 1,100°F or charring the paint;
  - f. Uncontained power washing;
  - g. Dry sanding or scraping;
  - h. Power sanding without HEPA attachment;
  - i. Sanding of wood after using a chemical stripping agent.

## 8.0 COMPONENT REMOVAL

When removing a component with LBP, the contractor shall:

- A. Using a garden sprayer or atomizer, lightly mist the component to be removed as needed with water to assist with keeping the dust down during the removal process.
- B. Using a utility knife or other sharp instrument, carefully score all affected painted seams.
- C. Remove any screws or other fasteners.
- D. Using a flat pry instrument and a hammer, carefully pry the affected building component away from the surface to which it is attached. The pry bar should be inserted into the seam at the

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nail (or other fastening device) at one end of the component and pressure applied. This process should be repeated at other fastening locations until the end of the component is reached. The component will be removed intact, and chip and dust generation will be minimized when prying is done this way. A pry point pad or softener may be required to minimize damage to adjoining substrates.

- E. Begin cleanup immediately after the individual component has been removed. HEPA vacuum and/or wet wipe to remove all paint chips, debris and dust generated during the work. Do not allow dust or debris to accumulate.
- F. Carefully remove or bend back all nails (or other fastening devices) and wrap the component in durable, puncture-resistant plastic sheeting and seal with duct tape.
- G. Use a HEPA vacuum to remove any dust that may have accumulated behind the components as soon as they have been removed.

## **9.0 PAINT STABILIZATION**

In instances where components require limited repair or preparation for painting, then the contractor shall utilize the following methods in concurrence with those outlined in Section 092400 – Cement Plastering (Stucco) or 090000 – Finishes (General).

### **9.1 Surface Preparation and Repair**

- A. Remove loose, flaking and deteriorated paint by wet scraping or wet sanding.
- B. Remove loose, unsound, or deteriorated substrates. Patch and fill as necessary to obtain a smooth, cleanable surface.
- C. HEPA vacuum and/or wet wipe to remove all paint chips, debris and dust generated during the work. Do not allow dust or debris to accumulate.

### **9.2 Paint Stabilization**

- A. Paint Removal:
  - 1. Wet Scraping: remove all loose, flaking, and deteriorated paint by wet scraping. Continually mist surface with water during scraping.
  - 2. Wet Sanding: prepare finish surface by wet sanding. Feather edges lightly. Keep surface wet while sanding.
- B. Surface Cleaning:
  - 1. Dust and chips: HEPA vacuum surface after drying.

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2. Chemically treat surface if necessary for good paint adhesion. Follow manufacturer's printed instructions for system used.
3. Test surface for pH. Place LITMUS paper on wet surface. Surface pH should be between 6-8. Re-rinse surfaces that do not meet pH with clear water or weak acid solution.
4. Remove oils, waxes and mold. Rinse thoroughly following cleaning.

## **10.0 PAINT ENCAPSULATION**

In instances where components require permanent protection against lead exposure, the contractor shall utilize the following methods in concurrence with those outlined in Section 092400 – Cement Plastering (Stucco) or 090000 – Finishes (General).

### **10.1 Surface Preparation and Repair**

- A. Remove loose, flaking, and deteriorated paint by wet scraping or wet sanding to ensure a sound surface for encapsulant application.
- B. Remove loose, unsound, or deteriorated substrates. Patch and fill as necessary to obtain a smooth, cleanable, and stable surface appropriate for encapsulant application.
- C. Clean all surfaces to be encapsulated using a HEPA vacuum or wet wiping method. Remove all visible dust, dirt, and debris prior to application.
- D. Chemically treat surfaces if necessary for adequate adhesion of the encapsulant. Follow manufacturer's printed instructions for the system used.
- E. Test surface for pH (if applicable). Place litmus paper on wet surface. Surface pH should be between 6-8. Re-rinse surfaces that do not meet pH criteria with clear water or a weak acid solution.
- F. Remove oils, waxes, and mold. Rinse thoroughly following cleaning.

### **10.2 Encapsulant Application**

- A. Apply the encapsulant according to the manufacturer's instructions, ensuring appropriate thickness, coverage, and curing time. Use only EPA registered encapsulants.
- B. Inspect the encapsulated surfaces for uniformity and integrity once the encapsulant has cured. Ensure complete coverage and adequate bonding to the underlying substrate.
- C. Document the encapsulation process, including manufacturer's product information, application techniques, and areas where encapsulation was applied.



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## 11.0 PROJECT DECONTAMINATION

### 11.1 General

#### A. Final Cleaning:

1. HEPA Vacuum: All surfaces in work area. Start at point farthest from entry/exit pass through and finish vacuuming back at that point. Begin at top of each work area and work down. Sequence to avoid passing through areas already cleaned.
2. Mist and wipe down critical barriers sheeting.
3. HEPA vacuum area previously covered by critical barrier sheeting.
4. Perform wet detergent wash of all surfaces. Begin at point farthest from entry/exit pass through, work from top to bottom. Take care not to damage existing finishes and surfaces. Change cleaning mixture in accordance with manufacturer's recommendations or minimum after each shift.
5. Wiping Work Area
  - a. The work area should be cleaned using a three-container method. Fill two buckets with clean water and place them in the work area with the container of cleaning solution.
  - b. Pour cleaning solution onto a clean cloth. Wring excess solution into one of the buckets without placing the cloth into the bucket. Wipe the work surface with the cloth. Add more cleaning solution to the cloth and continue wiping until the entire surface area has been covered. Discard all cloths used in this procedure in the disposal bag.
  - c. Dip and wring out a clean cloth in the first rinse bucket. Wipe off the work area. Rinse the cloth in the first bucket again and wring out thoroughly. Rinse the cloth in the second bucket and wring out thoroughly again.
  - d. Continue to clean the work surface with the cloth and rinse using this procedure until the entire work surface has been cleaned. Wipe off all tools to remove any dust.
  - e. NOTE: The rinse water in the bucket should be changed periodically. The frequency will vary depending on the level of contamination.
6. Perform clear water wash of all surfaces in same manner as wet detergent wash.
7. After all surfaces in work area are allowed to dry, complete final HEPA vacuuming of all surfaces in same manner as first HEPA vacuuming.
8. After final cleaning perform a complete visual inspection of the entire work area including: all surfaces, ceiling, walls, floor, doorways, windows, surfaces previously covered with critical barrier sheeting, and other openings; look for debris from any source, residue on surfaces,

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dust or other matter. If any debris, residue, dust or other matter is found, repeat final cleaning and continue decontamination procedure from that point. When the area is visually clean, complete the certification at the end of this section. Visual inspection is not considered complete until confirmed by Terracon or the Owner.

## **12.0 PRE-WORK AND POST-WORK SAMPLING**

### **12.1 Pre-work sampling**

- A. Prior to work commencing, the Project Monitor will collect representative soil samples at the exterior of the structure to establish baseline lead concentrations for the proposed work area's surrounding locations. Following the completion of work and a thorough cleaning, dust and/or soil samples will be collected at the exterior of the structure. The frequency and number of pre- and post-work sampling will be performed to best fit the planned work as coordinated with the Owner and contractor's agreed schedule.

### **12.2 Post-Work Sampling – Exterior**

- A. No sooner than one hour after the final cleaning and after the work area is completely dry, the following test procedure shall be performed:
  - 1. A final visual assessment shall be conducted by the project monitor who is an EPA and Texas-Licensed Lead Inspector or Lead Risk Assessor at the project's exterior to assess for visible surface dust, debris and residue. The visual assessment will cover exterior ground areas, vegetation and horizontal building surfaces (e.g., exterior windowsills, porch floors and railings) on which dust and debris may have fallen as a result of the work. If dust, paint chips, or paint-related debris are observed, the Contractor will be required to reclean the work area(s) at their expense.
  - 2. Once the visual assessment has passed, exterior dust and soil sampling shall be performed for work areas in general accordance with Appendix 13.1 and Chapter 15 of the HUD Guidelines and ASTM E 1728 and Texas Environmental lead Reduction Rules (TELRR).
  - 3. Wipe and soil samples must be analyzed for lead by a laboratory recognized by the EPA under the National Lead Laboratory Accreditation Program (NLLAP) for analysis of lead in dust.
  - 4. Wipe samples should be collected after any application of a sealant on a rough, unfinished, horizontal surface, such as a windowsill, not before.
  - 5. The dust lead clearance criteria established for this project is less than:
    - Exterior: 200  $\mu\text{g}/\text{ft}^2$
  - 6. Standard quality control procedures were utilized during sampling, including the submittal of a field blank for at least every 20 samples collected.

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7. Lead in soils within post-work samples must be equal to or less than pre-work concentrations.
8. Terracon shall immediately report the post-work results to the Owner.
9. If samples do not meet passing criteria, the work areas will need to be re-cleaned and re-tested at the Contractor's expense.

### **12.3 Post-Work Sampling – Interior**

- A. No sooner than one hour after the final cleaning and after the work area is completely dry, the following test procedure shall be performed:
  1. A final visual assessment shall be conducted by the Project Monitor who is an EPA and Texas-Licensed Lead Inspector or Lead Risk Assessor. When applicable, an interior clearance area should have no evidence of settled dust or paint chips or paint-related debris following a cleanup effort. If dust, paint chips, or paint-related debris are observed, the Contractor will be required to reclean the work area(s) at their expense.
  2. Once the visual assessment has passed, clearance dust sampling shall be performed for interior work areas in general accordance with Appendix 13.1 and Chapter 15 of the HUD Guidelines and ASTM E 1728 and TELRR.
  3. Clearance wipe samples must be analyzed for lead by a laboratory recognized by the EPA under the National Lead Laboratory Accreditation Program (NLLAP) for analysis of lead in dust.
  4. Composite sampling is not allowed for clearance dust wipe samples.
  5. Wipe samples should be collected after any application of a sealant on a rough, unfinished, horizontal surface, such as a floor or windowsill, not before.
  6. Wipe samples should be collected after any application of a sealant on a rough, unfinished, horizontal surface, such as a windowsill, not before.
  7. The dust lead clearance criteria established for this project is less than:
    - Floors: 10 µg/ft<sup>2</sup>
    - Windowsills: 100 µg/ft<sup>2</sup>
  8. Standard quality control procedures were utilized during sampling, including the submittal of a field blank for at least every 20 samples collected.
  9. It should be mentioned the EPA's Final Rule, issued on November 12, 2024, effective January 13, 2025, with compliance after January 12, 2026 update the standards for residual lead dust as described below:
    - Lead Hazards: Any Reportable Level
    - Clearance (Floors): 5 micrograms per square foot (µg/ft<sup>2</sup>)



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- Clearance (Interior windowsills): 40 µg/ft<sup>2</sup>
  - Clearance (Window troughs): 100 µg/ft<sup>2</sup>
10. Standard quality control procedures were utilized during sampling, including the submittal of a field blank for at least every 20 samples collected.
  11. Terracon shall immediately report the post-work results to the Owner.
  12. If samples do not meet passing criteria, the work areas will need to be re-cleaned and re-tested at the Contractor's expense.

## **13.0 DISPOSAL OF WASTE MATERIAL**

### **13.1 General**

- A. The debris stream generated from renovation activities must be analyzed via the Toxicity Characteristic Leaching Procedure (TCLP) for lead prior to disposal. Debris identified with a lead TCLP concentration of 5 mg/L or greater is to be disposed of as hazardous waste. Hazardous waste must be manifested and deposited in a landfill designed to accept such waste. The Contractor is responsible for characterizing the waste and ensuring proper disposal.
- B. Large waste material should be wrapped in heavy-duty sheeting (6-mil polyethylene or equivalent), and all seams should be sealed with tape during storage and transported to the appropriate landfill.
- C. Small waste material (including lead-contaminated protective clothing) should be placed in heavy-duty bags (double 6-mil or 4-mil polyethylene or equivalent). The bags should be securely taped shut with gooseneck closure.
- D. The waste should be stored in a designated secure (locked) area. Dumpsters should have lids and be padlocked.
- E. An enclosed dumpster will be used to haul waste material to the disposal site. No rental vehicles or trailers shall be used. Vehicle selection, vehicle covers, and work practices shall assure that no lead is dispersed into the environment during the loading, transport and unloading activity, and that material is placed in the waste site without breaking any seals.
- F. The Contractor shall transport the bags of waste material to the appropriate landfill. The sealed plastic bags shall be placed into the burial site unless the bags have been broken or damaged.