

# PROJECT MANUAL

## ASBESTOS/HAZARDOUS MATERIALS REMOVAL AND DISPOSAL BUILDINGS 1, 9, 10, 11, 12, 13 & 14

SITE:

FORMER JEFFERSON COUNTY HIGHWAY DEPARTMENT SITE  
141 WEST WOOLCOCK STREET  
JEFFERSON, WISCONSIN

PREPARED FOR:

JEFFERSON COUNTY  
311 SOUTH CENTER AVENUE  
JEFFERSON, WISCONSIN

PREPARED BY:



[www.thesigmagroup.com](http://www.thesigmagroup.com)

1300 West Canal Street  
Milwaukee, WI 53233  
414-643-4200

SEPTEMBER 2016

## **DIVISION 1**

### **GENERAL REQUIREMENTS**

## SECTION 00003

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**SECTION 00020**  
**INVITATION TO BID**

**PRE-DEMOLITION ASBESTOS REMOVAL AND HAZARDOUS MATERIALS REMOVAL AT THE FORMER JEFFERSON COUNTY HIGHWAY DEPARTMENT SITE**

**1. DESCRIPTION**

Project: Pre-Demolition Asbestos and Hazardous Materials Removal at the Former Jefferson County Highway Department Site, located at 141 West Woolcock Street, Jefferson, Wisconsin (Project Site).

Refer to Section 01100 of this document for a Summary of Work.

**2. PRE-PROPOSAL MEETING**

One mandatory pre-bid meeting will occur on September 20, 2016 at 9:00 a.m. at the former Jefferson County Highway Department site, located at 141 West Woolcock Street, Jefferson, Wisconsin (Project Site).

Following the meeting, a site walk through will be conducted.

Attendance and sign in on the attendance log is mandatory for consideration of a bid.

**3. PROPOSALS DUE**

Bids are due by September 29, 2016 by 2:00 p.m. Proposals shall be submitted, on the bid forms provided, in a sealed envelope, plainly marked on the outside of the envelope:

Sealed Proposal – Asbestos and Hazardous Materials Removal

Attn: Mr. Ben Wehmeier,  
Jefferson County Administrator  
311 South Center Avenue, Room 111  
Jefferson, WI 53549

Faxed and e-mail bids are not acceptable.

**4. PREVAILING WAGE LAWS**

Bidder shall comply with Prevailing Wage Laws.

**5. QUESTIONS**

For Questions Regarding the Bid Documents, Contact:

Mr. Ross Creighton  
The Sigma Group, Inc.  
1300 W. Canal Street  
Milwaukee, WI 53233  
Phone: 414-643-4120  
Fax: 414-643-4210  
E-mail: rcreighton@thesigmagroup.com

Questions regarding the Bid Documents must be submitted in writing by 2:00 p.m. September 26, 2016 (3-days before the bids are due). Submittal of questions via fax or e-mail is acceptable.

**6. PROPOSAL REQUIREMENTS**

No Proposals may be withdrawn for 90 days after Proposal due date.

The Owner reserves the right to reject any and all Proposals, or to waive any informalities in any Proposals or to accept any Proposals which will be to the best interests of the Owner.

Base Proposals will be received as follows: A single lump sum pay for all the work.

**7. BONDS REQUIRED**

**Performance and Payment Bonds**

The successful company to whom the work is awarded will be required to furnish a Performance Bond and Payment Bond in an amount equal to 100 percent (100%) of the contract amount. The cost associated with procuring the bond(s) shall be included in the base bid.

**8. INSTRUCTIONS TO BIDDERS**

Refer to Section 00100 for additional instructions to Bidders.

Refer to Section 01230 Alternates for a description of any Alternates requested on the Bid Form.

END OF SECTION 00020

## SECTION 00100

### INSTRUCTIONS TO BIDDERS

#### 1. DEFINITIONS

- 1.1 Bidding Documents include the Bidding Requirements, the proposed Contract Documents and associated appendices. The Bidding Requirements consist of the Invitation to Bid, Instructions to Bidders, the Bid Form, and other sample bidding and contract forms.
- 1.2 Definitions set forth in the Standard General Conditions of the Construction Contract, EJCDC Document 1910-8, or in other Contract Documents are applicable to the Bidding Documents.
- 1.3 Addenda: Are written or graphic instruments issued by the Owner prior to the execution of the Contract which modify or clarify the Bidding Documents by additions, deletions, clarifications, or corrections.
- 1.4 Bid: A complete and properly signed Bid Form to do the Work for the sum stipulated therein, submitted in accordance with the Bidding Documents.
- 1.5 Base Bid: The sum stated in the Bid Form for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternative Bids.
- 1.6 Unit Price: (If requested on the Bid Form) An amount stated in the Bid as a price per unit of measurement for materials, equipment or services or a portion of the Work as described in the Bidding Documents. Unit Prices may be used to add or deduct the amount of work required under contract.
- 1.7 Site Demolition: Demolition activities associated with site features other than the existing building and its components to be demolished.

#### 2. GENERAL

- 2.1 Bidders shall use complete sets of Bidding Documents in preparing Bids; Owner does not assume responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.2 Each bidder shall examine the site of the work and ascertain for himself/herself the amount of work involved and the conditions under which it will be done.
- 2.3 Bidders are required to inform themselves fully as to all of the conditions relating to the construction and labor under which the work will be or is now being performed.
- 2.4 Any verbal information obtained from or statement made by representatives of the Owner at the time of the examination of the contract document, or at the

proposed work site for the purposes of bidding which apparently corrects or in any way amends the contract documents shall be invalid. The Owner will not be responsible for such verbal information or statements. Only such correction and amendments to the contract documents, which are issued to all bidders as formal addenda, shall become a part of the contract. If any person contemplating the submission of a bid for the proposed contract is in doubt as to the true meaning of any part of the plans, specifications, or other contract documents, he/she may submit to the Owner's Representative a written request for an interpretation thereof.

2.5 Prevailing Wage Laws will apply to scope of work performed. See Section 00850 in the Project Manual.

### **3. ADDENDA**

3.1 Addenda will be mailed, faxed, or e-mailed to bidders who receive complete sets of Bid Documents from the Owner.

3.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

3.3 Each Bidder shall acknowledge receipt of all Addenda issued on Bid Form, or bid may be rejected.

END OF SECTION 00100

**SECTION 00300**

**BID FORMS**

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**SECTION 00300**

**BID FORM**

**ASBESTOS AND HAZARDOUS MATERIALS REMOVAL/ DISPOSAL FROM THE FORMER JEFFERSON COUNTY HIGHWAY DEPARTMENT FACILITY, BUILDINGS 1, 9, 10, 11, 12, 13 & 14**

Bids Due: September 29, 2016 by 2:00 p.m. Central Time

At the Office of: Mr. Ben Wehmeier,  
Jefferson County Administrator  
311 South Center Avenue, Room 111  
Jefferson, WI 53549

We \_\_\_\_\_  
(A Corporation) (A Partnership) (An Individual) - (Cross Out Inapplicable)

of \_\_\_\_\_  
Street City Zip Telephone No.

Hereby agree to execute contract in the amount specified to complete the above project in strict accordance with the contract documents.

CONTRACT: PRE-DEMOLITION ASBESTOS REMOVAL AND HAZARDOUS MATERIALS REMOVAL AT THE FORMER JEFFERSON COUNTY HIGHWAY DEPARTMENT SITE.

Asbestos and Material Removal and Disposal for the sum of:

**TOTAL BASE BID:** \$ \_\_\_\_\_  
(Total Base Bid in

Figures)

\_\_\_\_\_ **Dollars.**  
(Total Base Bid In Words)

LIST OF SUBCONTRACTORS

List all subcontractors and their intended function:

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ADDENDUM RECEIPT

We acknowledge the receipt of Addendum \_\_\_to\_\_\_ inclusive.

BID SECURITY ACCOMPANYING PROPOSAL

Note: No bid security is required.

BIDDER'S CERTIFICATE

Bidder certifies that they have examined and carefully prepared this bid from the plans and specifications and has checked the same in detail before submitting bid. The undersigned bidder, submitting this bid, hereby declares and agrees to be bound, and to perform the work in accordance with all the terms, conditions and requirements of the within and foregoing proposal, the contract, the applicable specifications and special provisions, and the prices as hereby submitted.

Company \_\_\_\_\_

Signature (*Manual Signature*) \_\_\_\_\_

Name (*Print or Type*) \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

My commission expires \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
(Notary Public)



Asbestos and Lead-Based Paint Worksheet  
Former Jefferson County Highway Department Site

Building	Material Code	Material Description	Sample Results	Quantity in Asbestos/ Lead Report	Units	Stay / Remove	Quantity Requiring Removal
<b>Building 1</b>							
1	MBR-B1	BUILT UP ROOF - UNKNOWN - B1	ATC	1800	sf	stay	
1	MEP-B1	ELECTRICAL PANEL - B1	ATC	2	each	remove	
1	MF9-B1-1	9" FLOOR TILE & MASTIC - CREAM,TAN - B1 (Tile-POS; tan & blk Mastic NEG)	POS	1701	sf	remove	
1	MFLC-B1-1	FLOOR LEVELING COMPOUND - WHITE - B1	POS	200	sf	remove	
1	MP-B1	ROOF PARAPET - ENCLOSED UNDER PEAKED ROOF, NOT OBSERVED, ATC - B1	ATC	150	lf	stay	
1	MPG-B1-1	WINDOW PANE GLAZING - CREAM - B1	POS	75	lf	remove	
1	MPM-B1-2	PANEL MASTIC - DK BROWN ON STYROFOAM/CONC. BLOCK - B1	POS	1040	sf	remove	
1	MRF-B1	ROOF FLASHING - B1	ATC	230	lf	stay	
1	MSC-B1-1	SINK LINING - PINK - B1	POS	5	sf	remove	
1	MTWR-B11	TOILET WAX RING - ATC - B11	ATC	2	each	remove	
1	TF5F-B1	0-5" FITTING ON FIBERGLASS - B1	ATC	8	each	remove	
1	TM5-B1	0-5" MAGNESIA PIPE INSULATION - B1	ATC	65	lf	remove	
1	LEAD PAINT	SUBWAY TILES, TAN - 1.0 mg/cm2 lead content	POS	---		remove	
<b>Building 9</b>							
9	MEP-B9	ELECTRICAL PANEL - B9	ATC	1	each	verify	
<b>Building 10</b>							
10	MC-B10-11	CAULK - DK GRAY VENT - B10	POS	8	lf	verify	
10	MC-B10-12	CAULK - OLD WHITE EXT WINDOW - B10	POS	60	lf	verify	
10	MPG-B10-1	WINDOW PANE GLAZING - CREAM - B10 (<1% asbestos by PLM PC)	POS	280	lf	remove	
10	MRRS-B10-1	MISC RESIDUAL ROOF SYSTEM (POTENTIAL BUILT UP, FLASHING, PARAPET BENEATH NEW MEMBRANE) - B10	ATC	7200	sf	stay	
10	TF10F-B10-1	6-10" FITTING ON FIBERGLASS PIPE INSULATION - B10	POS	9	each	remove	
10	LEAD PAINT	METAL WINDOW FRAME, 2.5 mg/cm2 lead content	POS	---		stay	
10	LEAD PAINT	METAL BEAM/COLUMN, 2.3 mg/cm2 lead content	POS	---		stay	
<b>Building 11</b>							
11	MBR-B11-1	BUILT UP ROOF - BLACK - DOMED/ARCHED - B11	POS	8500	sf	stay	
11	MC-B11-1	CAULK - GRAY DOOR - B11	POS	80	lf	verify	
11	MC-B11-8	CAULK - GRAY EXT WINDOW - B11	POS	140	lf	verify	
11	MEP-B11-1	ELECTRICAL PANEL - GRAY - B11	ATC	23	each	remove	
11	MF12-B11-1	12" FLOOR TILE & MASTIC - CREAM W/GRAY FLECKS - B11 (Tile POS, Yellow Mastic NEG)	POS	900	sf	remove	
11	MRF-B11-1	ROOF FLASHING - SILVER/GRAY - B11	POS	1500	sf	stay	

Asbestos and Lead-Based Paint Worksheet  
Former Jefferson County Highway Department Site

Building	Material Code	Material Description	Sample Results	Quantity in Asbestos/ Lead Report	Units	Stay / Remove	Quantity Requiring Removal
11	MRT-B11-1	ROOF TAR - BLACK PENETRATION - B11	POS	100	lf	stay	
11	MST-B11	PARAPET SEAM TAPE - GRAY - B11	POS	200	lf	stay	
11	MTWR-B11	TOILET WAX RING - ATC - B11	ATC	5	each	stay	
11	LEAD PAINT	METAL WINDOW FRAME, 1.1 mg/cm2 lead content	POS	---		stay	
<b>Building 12</b>							
12	MC-B12-12	CAULK - DK BROWN WINDOW	POS	50	lf	verify	
12	MC-B12-13	CAULK - WHITE SEAM, ROOF - B12	POS	40	lf	verify	
12	MC-B12-4	CAULK - WHITE (STICKY AT INSULATION/EXT WALL) - B12	POS	20	lf	verify	
12	MC-B12-5	CAULK - BROWN (SEAM BETWEEN CONCRETE-WALL PANEL) - B12	POS	35	lf	verify	
12	MC-B12-8	CAULK - DK BROWN (PANEL UNDERSIDE) - B12	POS	15	lf	verify	
12	MEP-B12	ELECTRICAL PANEL - B12	ATC	13	each	remove	
12	MRT-B12-2	ROOF TAR - GRAY - B12	POS	60	sf	stay	
12	MTWR-B12	TOILET WAX RING - ATC - B12	ATC	4	each	stay	
<b>Building 13</b>							
13	MC-B13-1	CAULK - BROWN (SEAM BETWEEN CONCRETE AND METAL SIDING-PERIMETER) - B13	POS	390	lf	verify	
13	MEP-B13	ELECTRICAL PANEL - B13	ATC	5	each	verify	
13	LEAD PAINT	METAL PIPE, 2.6 mg/cm2 lead content	POS	---		stay	
<b>Building 14</b>							
14	MC-B14-1	CAULK - GRAY DOOR - B14	POS	180	lf	verify	
14	MC-B14-2	CAULK - WHITE DOOR - B14	POS	20	lf	verify	
14	MEP-B14-1	ELECTRICAL PANEL - GRAY - B14	ATC	3	each	verify	
14	MRRS-B14-1	MISC RESIDUAL ROOF SYSTEM (POTENTIAL BUILT UP, FLASHING, PARAPET BENEATH NEW MEMBRANE) - B14	ATC	3600	sf	verify	
14	TDW-B14-1	PAPER DUCT WRAP - WHITE - B14	POS	12	sf	verify	

**Key**

ATC - Assumed to Contain

POS - positive

sf - square foot

lf - linear foot

remove - remove prior to demolition

stay - leave in place for demolition contractor

verify - verify quantity requiring removal to facilitate demolition

**SCOPE CHECK:**

The scope check cost categories and quantities indicated below are being requested for informational purposes only. **Unit price information may be used to evaluate costs for additional work at unit prices if revealed conditions are encountered or if regulatory inspections or sampling information indicate that additional quantities or activities may be required that are not in the initial scope.** Provide a Cost Breakdown of Your Bid for the following work elements. The total should equal your Base Bid:

**Cost Categories:**

**A. Pre-Demolition Activities:**

Permits: \$ \_\_\_\_\_

Mobilization: \$ \_\_\_\_\_

Utility Disconnection (electric): \$ \_\_\_\_\_

Asbestos Removal/Disposal \$ \_\_\_\_\_

Hazardous Materials Removal/Disposal: \$ \_\_\_\_\_

**Pre-Demolition Subtotal: \$ \_\_\_\_\_**

**Unit Values:**

Provide the estimated number of man hours required to complete the proposed scope of work per the Project Manual. **No change in Contract Price will be granted if actual scope quantities exceed those provided below.:**

Base Bid:  
Pre-Demolition Activities \_\_\_\_\_ man-hours

Provide the following labor and equipment rates, where labor rates include basic hourly rate of pay, plus all fringe benefits and all overhead, profit and insurance. Attach your company's unit cost rates for labor and equipment (if available) in lieu of this section.

Asbestos Supervisor \_\_\_\_\_ \$ \_\_\_\_\_ per hour

Asbestos Worker \_\_\_\_\_ \$ \_\_\_\_\_ per hour

Negative Pressure Air Machine \_\_\_\_\_ \$ \_\_\_\_\_ per day

Equipment/Rate \_\_\_\_\_ \$ \_\_\_\_\_ per day

Superintendent \_\_\_\_\_ \$ \_\_\_\_\_ per hour

Other \_\_\_\_\_ \$ \_\_\_\_\_ per hour

Other \_\_\_\_\_ \$ \_\_\_\_\_ per hour

**Provide the following values that were used to prepare your Base Bid: No change in Contract Price will be granted if actual scope quantities exceed those provided below.**

Provide the cost per ton for hauling and disposal of **non-asbestos** containing demolition waste materials to a licensed sanitary landfill. Specify the proposed landfill associated with this cost per ton.

\$ \_\_\_\_\_ per ton

Proposed Landfill: \_\_\_\_\_

Provide the cost per ton for hauling and disposal of **asbestos** containing demolition waste materials to a licensed sanitary landfill. Specify the proposed landfill associated with this cost per ton.

\$ \_\_\_\_\_ per ton

Proposed Landfill: \_\_\_\_\_

Provide unit costs for asbestos removal and disposal of the following materials:

**UNIT RATES  
ASBESTOS REMOVAL AND DISPOSAL**

<b>Material Code</b>	<b>Material Description</b>	<b>Cost</b>	<b>Units</b>
MC	CAULK - DOOR & WINDOW	\$ _____	sf
MCM	CARPET MASTIC -	\$ _____	sf
MCTM	CERAMIC TILE & MASTIC -	\$ _____	sf
MDWC	DRYWALL & JOINT COMPOUND -	\$ _____	sf
MEP	ELECTRICAL PANEL - Small	\$ _____	each
MEP	ELECTRICAL PANEL - Large	\$ _____	each
MF	FLOOR TILE & MASTIC -	\$ _____	sf
MF	FLOOR TILE -	\$ _____	sf
MFM	FLOOR MASTIC -	\$ _____	sf
MBD	FIRE DOOR	\$ _____	each
MQTM	QUARRY TILE & MASTIC -	\$ _____	sf
MBR	BUILT UP ROOF	\$ _____	sf
MRF	ROOF FLASHING -	\$ _____	sf
MRT	ROOF TAR - BLACK	\$ _____	sf
MBRA	RUBBER ADHESIVE - BLACK, ROOF	\$ _____	sf
MC	ROOF CAULK -	\$ _____	lf
MV4	4" VINYL BASEBOARD & MASTIC -	\$ _____	lf
SCT	CEILING TEXTURE - ON CONCRETE	\$ _____	sf
MTP	TRANSITE PANEL	\$ _____	sf
TBJI	BOILER JACKET INSULATION -	\$ _____	sf
TF5F	0-5" FITTING ON FIBERGLASS PIPE INSULATION	\$ _____	each
TM5	0-5" THERMAL PIPE INSULATION - MAG	\$ _____	lf
TA5	0-5" THERMAL PIPE INSULATION - AIRCELL	\$ _____	lf
TF10F	6-10" THERMAL FITTING	\$ _____	each
TM10	6-10" THERMAL PIPE INSULATION - MAG	\$ _____	lf
TA10	6-10" THERMAL PIPE INSULATION - AIRCELL	\$ _____	lf
TF15	10-15" THERMAL FITTING	\$ _____	each
TM15	10-15" THERMAL PIPE INSULATION - MAG	\$ _____	lf
TA15	10-15" THERMAL PIPE INSULATION - AIRCELL	\$ _____	lf



## SECTION 00851

### SCHEDULE

#### 1. General

- A. This Section includes a project schedule for the Work of this Contract.

#### 2. Schedule and Completion Date(s)

- A. Anticipated Notice of Award: By **late October, 2016**
- B. Anticipated Start Date for Asbestos Removal and Hazardous Material Removal Work: **Late October/Early November, 2016**
- C. All Work of Contract shall be substantially completed on or before **Mid-December, 2016** and completed and ready for final payment in accordance with paragraph 14.07 of the General Conditions on or before **December 31, 2016**.
- D. The only exceptions to the above completion dates are delay or termination because of a national emergency and/or extension for time of completion claimed and allowed in accordance with General conditions and/or Supplementary Conditions.

END OF SECTION 00851

## SECTION 01100

### SUMMARY

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes the following:
1. Work covered by the Contract Documents.
  2. Work phases.
  3. Work under other contracts.
  4. Use of premises.
  5. Owner's occupancy requirements.
  6. Specification formats and conventions.

##### 1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification: **Asbestos/Hazardous Materials Removal and Disposal, Former Jefferson County Highway Department Facility. Locations to be have asbestos and hazardous material removed are Buildings 1, 9, 10, 11, 12, 13 and 14.**
1. Project Location: **141 West Woolcock Street, Jefferson, WI**
- B. Owner: **Jefferson County Highway Department, 311 South Center Avenue, Jefferson, WI**
- C. Engineer: **The Sigma Group, Inc., 1300 West Canal Street, Milwaukee, WI 53233, Phone (414) 643-4200, FAX (414) 643-4210**

The Work consists of asbestos and hazardous materials removal and proper disposal.

1. Asbestos removal to the extent necessary to facilitate demolition in accordance with applicable regulations and disposal at a facility licensed to receive/dispose asbestos-containing material. A Pre-Demolition Asbestos Inspection Report is provided as Appendix A. Bidders are responsible for verifying the materials and quantities present in the asbestos report and determining the quantity of material that must be removed to facilitate demolition.

An Asbestos and Lead Paint Quantities Worksheet is included with the bid form. The worksheet summarizes asbestos-containing materials and lead paint quantities identified in the asbestos and hazardous materials inspection reports and provides a column where the Bidder (abatement contractor) shall provide the quantity of material that requires removal to facilitate demolition based on field observations. Category I non-friable asbestos materials

(packings, gaskets, resilient floor covering, and asphalt roofing) in good condition can be left in place during demolition as long as the substrate materials they are attached to will not be recycled.

For this bid:

- All Roofing materials will remain in place;
- Category I non-friable asbestos material shall be removed from all metal, concrete, and masonry material to facilitate recycling of those materials during demolition.

Lead paint may also remain in place during demolition as long as it is not attached/adhered to concrete or masonry. Lead paint on metal may be recycled with the metal. Lead paint on wood and other miscellaneous material may be landfilled with the construction and demolition waste stream.

2. Hazardous materials removal and disposal in accordance with all applicable regulations. The Work includes the removal prior to demolition and proper disposal of hazardous materials including:
  - asbestos containing materials
  - suspect radioactive containing devices (smoke detectors)
  - fluorescent lighting ballasts
  - light bulbs/ lamps
  - batteries
  - transformers
  - CFC refrigeration devices
  - mercury containing devices (thermostats, gauges, thermometers)
  - lead painted surfaces (if necessary to facilitate recycling)
  - truck and vehicle hydraulic lift fluids
  - miscellaneous chemicals, cleaning supplies, paint, aerosol cans

A pre-demolition hazardous materials assessment report is provided as **Appendix B. BIDDERS ARE RESPONSIBLE FOR COMPLETING THEIR OWN ASSESSMENT OF WORK CONDITIONS AND QUANTITIES PRIOR TO SUBMISSION OF BID. QUANTITIES PROVIDED IN APPENDIX B ARE ESTIMATED, AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BID SUBMITTAL. NO CHANGE IN CONTRACT PRICE WILL BE GRANTED IF ACTUAL QUANTITIES EXCEED THE ESTIMATES PROVIDED.**

3. Providing a Competent Person (as defined in technical specification Section 02221) to monitor asbestos and hazardous materials removal work and to report suspect asbestos containing and hazardous materials to the Owner.
4. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work. Contractor shall comply with all applicable laws and regulations relating to safety and protection of persons or property.
5. A list of items to be salvaged by Owner prior to demolition of the structure is included at the end of this Section.

6. Contractor shall be responsible for conducting its work in compliance with Owner's Policies included at the end of this Section.

### 1.3 SPECIFIC CLARIFICATIONS

- A. The work includes the pre-demolition removal of the asbestos containing materials identified in the Pre-Demolition Asbestos Inspection Report provided as **Appendix A** to the extent necessary to facilitate demolition.
- B. Contractor shall conduct work in compliance with Owner's Contractor Work Rules included at the end of this Section.

### 1.4 WORK SEQUENCE

- A. COORDINATE work sequence with Owner and others contracted to perform work at the site.
- B. Before commencing Work, submit a schedule showing the sequence, commencement and completion dates, and move-out and -in dates for all phases of the Work.

### 1.5 WORK UNDER OTHER CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract. Coordinate the Work of this Contract with work performed under separate contracts.
- B. Preceding Work: None
- C. Concurrent Work: None
- D. Future Work: None

### 1.6 USE OF PREMISES

- A. General: Contractor shall have use of premises for asbestos and hazardous materials removal operations.
- B. Use of Site: Limit use of premises to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
  1. Roads and pavement, and adjacent areas must be kept clean of mud, dirt and debris. If Contractor does not keep clean, Owner will clean and charge cost against Contractor's contract.
  2. Owner assumes no responsibility for damage or loss due to storing of materials and equipment.

3. Contractor shall coordinate and cooperate with Owner. Schedule all work with Owner at pre-arranged times.

#### 1.7 OWNER'S OCCUPANCY REQUIREMENTS

- A. Owner may access the site during the asbestos and hazardous materials removal period. The building requiring asbestos and hazardous materials removal will be vacant. Cooperate with Owner during removal operations to facilitate periodic Owner usage. Maintain proposed asphalt driveway and existing southeast exit to Woolcock.
  1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.

#### 1.8 SITE SECURITY

- A. The work area is to be restricted only to authorized, trained and protected personnel. These include the Contractor's employees, employees of Subcontractors, state or local inspectors and any other designated individuals. A list of authorized personnel shall be established prior to job start and be posted.
- B. Entry into the work area by unauthorized individuals shall be reported immediately to the Owner by the Contractor.
- C. A log book shall be maintained by Contractor. Anyone who enters the Work area must record name, affiliation, time-in and time-out for each entry.
- D. Contractor shall have control of and be responsible for site security during the course of Work. This includes maintaining security of the site during regular business hours and during off-hours to prevent unauthorized entry.
- E. Contractor shall provide barriers to prevent unauthorized entry to asbestos and hazardous materials removal areas and to protect existing facilities and adjacent properties during removal operations.
- F. Openings in buildings created by the asbestos and hazardous materials removal activities must be secured by the contractor by boarding or other means to prevent unauthorized entry.

#### 1.9 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format and CSI/CSC's "MasterFormat" numbering system.
  1. Division 1: Sections in Division 1 govern the execution of the Work of all Sections in the Specifications.

- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
  2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
    - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01100

**SECTION 01101**

**ITEMS TO BE SALVAGED FOR OWNER**

1. None.

END OF SECTION 01101

## SECTION 01102

### CONTRACTOR WORK RULES

1. SITE SECURITY
  - A. Secure facilities doors with door locks or padlocks during all non-work hours.
  - B. Secure new opening caused by asbestos and hazardous material removal by boards or other means to prevent unauthorized entry.
2. FIRE SAFETY
  - A. Fire Extinguishers must be on site for flammable products.
  - B. Fire Exit Paths must be accessible at all times.
3. SITE SAFETY
  - A. Asbestos and Hazardous Material Removal. Dust control is required at all times. Personal protective clothing appropriate for the task. Long pants, shirts with sleeves, steel toe boots, and hard hats worn at all times during asbestos and hazardous material removal.
4. MSDS
  - A. Material Data Safety Sheets must be on site for contractor furnished chemical products including adhesives.
5. SMOKING
  - A. ONE Smoking Area to be designated by contractor.
6. TRAFFIC ROUTE:
  - A. Designated Traffic Route(s) per Owner.
7. CONDUCT & LANGUAGE:
  - A. Professional Workmanship Manner at all times.
8. PARKING:
  - A. Contractor Designated Parking Area per Owner.

END OF SECTION 01102

## SECTION 01230

### ALTERNATES

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates.
- B. **No Alternates are included at this time.**

##### 1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of demolition to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

##### 1.3 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

#### PART 2 - PRODUCTS (Not Used)

#### PART 3 - EXECUTION (Not Used)

END OF SECTION 01230

## SECTION 01310

### PROJECT MANAGEMENT AND COORDINATION

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes administrative provisions for coordinating asbestos and hazardous material removal operations including, but not limited to, the following:
  - 1. Coordination.
  - 2. Project meetings.
  - 3. Requests for Interpretation (RFIs).
- B. See Division 1 Section "Execution Requirements" for procedures for coordinating general demolition and field-engineering services.

##### 1.2 DEFINITIONS

- A. RFI: Request from Contractor seeking interpretation or clarification of the Contract Documents.

##### 1.3 COORDINATION

- A. Coordination: Coordinate asbestos and hazardous material removal and proper disposal operations included in different Sections of the Specifications to ensure efficient and orderly completion of each part of the Work.
  - 1. Schedule asbestos and hazardous material removal operations in sequence required to obtain the best results where completion of one part of the Work depends on completion of other components, before or after its own completion.
  - 2. Coordinate asbestos and hazardous material removal of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair.
  - 3. Make adequate provisions to accommodate items scheduled for later installation.
  - 4. Where availability of space is limited, coordinate asbestos and hazardous material removal of different components to ensure maximum accessibility for required maintenance, service, and repair of existing components, including mechanical and electrical.
- B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

1. Preparation of Contractor's Asbestos and Hazardous Material Removal Schedule.
2. Preparation of the Schedule of Values.
3. Installation and removal of temporary facilities and controls.
4. Delivery and processing of submittals.
5. Progress meetings.
6. Pre-asbestos and hazardous material removal conference.
7. Project closeout activities.

#### 1.4 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
  1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner of scheduled meeting dates and times.
- B. Pre-Asbestos and Hazardous Material Removal Conference: Schedule a pre-asbestos and hazardous material removal conference before starting asbestos and hazardous material removal, at a time convenient to Owner. Hold the conference at Project site or another convenient location. Conduct the meeting to review responsibilities and personnel assignments.
  1. Attendees: Authorized representatives of Owner/Engineer, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
  2. Agenda: Discuss items of significance that could affect progress, including the following:
    - a. Tentative construction schedule.
    - b. Phasing.
    - c. Critical work sequencing and long-lead items.
    - d. Designation of key personnel and their duties.
    - e. Procedures for processing field decisions and Change Orders.
    - f. Procedures for RFIs.
    - g. Procedures for testing and inspecting.
    - h. Procedures for processing Applications for Payment.
    - i. Distribution of the Contract Documents.
    - j. Submittal procedures.
    - k. Preparation of Record Documents.
    - l. Use of the premises.
    - m. Work restrictions.
    - n. Owner's occupancy requirements.
    - o. Responsibility for temporary facilities and controls.
    - p. Construction waste management and recycling.
    - q. Parking availability.
    - r. Office, work, and storage areas.

- s. Equipment deliveries and priorities.
- t. First aid.
- u. Security.
- v. Progress cleaning.
- w. Working hours.

C. Progress Meetings: Conduct progress meetings at weekly intervals. Coordinate dates of meetings with preparation of payment requests.

1. Attendees: In addition to representatives of Owner, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
  - a. Contractor's Asbestos and Hazardous Material Removal Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's Asbestos and Hazardous Material Removal Schedule. Determine how activities behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
    - 1) Review schedule for next period.
  - b. Review present and future needs of each entity present, including the following:
    - 1) Interface requirements.
    - 2) Sequence of operations.
    - 3) Status of submittals.
    - 4) Deliveries.
    - 5) Access.
    - 6) Site utilization.
    - 7) Temporary facilities and controls.
    - 8) Work hours.
    - 9) Hazards and risks.
    - 10) Progress cleaning.
    - 11) Quality and work standards.
    - 12) Status of correction of deficient items.
    - 13) Field observations.
    - 14) RFIs.
    - 15) Status of proposal requests.
    - 16) Pending changes.
    - 17) Status of Change Orders.
    - 18) Pending claims and disputes.
    - 19) Documentation of information for payment requests.

3. Minutes: Owner will record and distribute the meeting minutes.
  - a. Schedule Updating: Revise Contractor's Asbestos and Hazardous Material Removal Schedule after each progress meeting where revisions to the schedule have been made or recognized.

#### 1.5 REQUESTS FOR INTERPRETATION (RFIs)

- A. Procedure: Immediately on discovery of the need for interpretation of the Contract Documents, and if not possible to request interpretation at Project meeting, prepare and submit an RFI in the form specified.
  1. RFIs shall originate with Contractor. RFIs submitted by entities other than Contractor will be returned with no response.
  2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing interpretation and the following:
  1. Project name.
  2. Date.
  3. Name of Contractor.
  4. Name of Owner/Engineer.
  5. RFI number, numbered sequentially.
  6. Specification Section number and title and related paragraphs, as appropriate.
  7. Drawing number and detail references, as appropriate.
  8. Field dimensions and conditions, as appropriate.
  9. Contractor's suggested solution(s). If Contractor's solution(s) impact the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
  10. Contractor's signature.
  11. Attachments: Include drawings, descriptions, measurements, photos, and other information necessary to fully describe items needing interpretation.
- C. Owner/Engineer's Action: Owner/Engineer will review each RFI, determine action required, and return it. Allow 7 working days for Owner/Engineer's response for each RFI. RFIs received after 1:00 p.m. will be considered as received the following working day.
  1. The following RFIs will be returned without action:
    - a. Requests for approval of submittals.
    - b. Requests for approval of substitutions.
    - c. Requests for coordination information already indicated in the Contract Documents.
    - d. Requests for adjustments in the Contract Time or the Contract Sum.
    - e. Requests for interpretation of Owner/Engineer's actions on submittals.
    - f. Incomplete RFIs or RFIs with numerous errors.

2. Owner/Engineer's action may include a request for additional information, in which case Owner/Engineer's time for response will start again.
  3. Owner/Engineer's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Division 1 Section "Contract Modifications."
    - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Owner/Engineer in writing within 5 days of receipt of the RFI response.
- D. On receipt of Owner/Engineer's action, immediately distribute the RFI response to affected parties. Review response and notify Owner/Engineer within 5 days if Contractor disagrees with response.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01310

## SECTION 01320

### PROJECT PROGRESS DOCUMENTATION

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for documenting asbestos and hazardous material removal and proper disposal progress during performance of the Work, including the following:
  - 1. Contractor's asbestos and hazardous material removal schedule.
  - 2. Daily reports.
  - 3. Field condition reports.
- B. See Division 1 Section "Payment Procedures" for submitting the Schedule of Values.

##### 1.2 COORDINATION

- A. Coordinate preparation and processing of schedules and reports with performance of asbestos and hazardous material removal activities and with scheduling and reporting of separate contractors.
- B. Coordinate Contractor's asbestos and hazardous material removal schedule with the Schedule of Values, list of subcontracts, Submittals Schedule, progress reports, payment requests, and other required schedules and reports.
  - 1. Secure time commitments for performing critical elements of the Work from parties involved.
  - 2. Coordinate each asbestos and hazardous material removal activity in the network with other activities and schedule them in proper sequence.

#### PART 2 - PRODUCTS

##### 2.1 CONTRACTOR'S ASBESTOS AND HAZARDOUS MATERIAL REMOVAL SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from date established for Notice of Award to date of Final Completion.

1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- B. Activities: Treat each principal element of the Work as a separate activity.
- C. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
1. Restrictions: Show the effect of the following items on the schedule:
    - a. Coordination with existing construction.
    - b. Limitations of continued occupancies.
    - c. Uninterruptible services.
    - d. Partial occupancy before Substantial Completion.
    - e. Use of premises restrictions.
    - f. Provisions for future construction.
    - g. Seasonal variations.
    - h. Environmental control.
  2. Work Stages: Indicate important stages of construction for each major portion of the Work.
  3. Include any other Constraints or Work restrictions and show how the sequence of Work is effected.
- D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and Final Completion.
- E. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis to demonstrate the effect of the proposed change on the overall project schedule.

## 2.2 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
1. List of subcontractors at Project site.
  2. Equipment at Project site.
  3. High and low temperatures and general weather conditions.
  4. Accidents.
  5. Stoppages, delays, shortages, and losses.
  6. Meter readings and similar recordings.

7. Orders and requests of authorities having jurisdiction.
  8. Services connected and disconnected.
- B. Field Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare and submit a detailed report. Submit with a request for interpretation. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

## PART 3 - EXECUTION

### 3.1 CONTRACTOR'S ASBESTOS AND HAZARDOUS MATERIAL REMOVAL SCHEDULE

- A. Contractor's Asbestos and Hazardous Material Removal Schedule Updating: At weekly intervals, update schedule to reflect actual asbestos and hazardous material removal progress and activities. Issue schedule before each regularly scheduled progress meeting.
1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made.
  2. As the Work progresses, indicate Actual Completion percentage for each activity.
- B. Distribution: Distribute copies of approved schedule to Owner, separate contractors, and other parties identified by Contractor with a need-to-know schedule responsibility.

END OF SECTION 01320

## SECTION 01500

### TEMPORARY FACILITIES AND CONTROLS

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. See Division 1 Section "Execution Requirements" for progress cleaning requirements.

##### 1.2 SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for abatement personnel.

##### 1.3 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.

#### PART 2 - PRODUCTS

##### 2.1 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

#### PART 3 - EXECUTION

##### 3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

##### 3.2 TEMPORARY UTILITY INSTALLATION

- A. Sanitary Facilities: Provide temporary chemical type toilets, wash facilities, and drinking water for use of demolition personnel. Comply with authorities

having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

- B. Electric Power Service: Contractor shall provide its own power for asbestos and hazardous material removal operations.
- C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for work operations, observations, inspections, and job conditions.
- D. Telephone Service: Contractor shall provide its own telephone and two-way radios.
- E. Contractor shall provide its own water.
- F. Parking: Contractor shall park only in Owner-designated areas.

### 3.3 SUPPORT FACILITIES INSTALLATION

- A. Traffic Controls: Comply with requirements of authorities having jurisdiction.
  - 1. Protect existing site improvements to remain including curbs, pavement, and utilities.
  - 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- B. Parking: Coordinate parking areas for abatement personnel with Owner. Do not allow vehicle parking in unauthorized areas. Owner is not responsible for cost of parking tickets or towing charges due to unauthorized parking.
- C. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from asbestos and hazardous material removal operations. Comply with requirements of authorities having jurisdiction. Comply with Division 1 Section "Execution Requirements" for progress cleaning requirements. Handle all wastes in lawful and appropriate method for each waste classification.

### 3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct asbestos and hazardous material removal in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

### 3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

- B. Maintenance: Maintain facilities in good operating condition until removal.
- C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion.
  - 1. At Substantial Completion, clean and renovate permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 1 Section "Closeout Procedures."

END OF SECTION 01500

**SECTION 01524**  
**WASTE MANAGEMENT**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. This Section includes administrative and procedural requirements for the following:
  - 1. Disposal of hazardous materials.
- B. See Division 2 Section "Asbestos Removal" for disposition of asbestos containing materials.
- C. See Division 2 "PCB-Containing Devices" for disposition of waste containing PCBs.
- D. See Division 2 "Lamps and Mercury Containing Devices" for disposition of lamps, ballasts and mercury containing devices.
- E. See Division 2 "Decommissioning of CFC Containing Devices" for disposition of CFC containing devices.
- F. See Division 2 "Lead Based Paint" for disposition of materials with lead based paint.

**1.2 DEFINITIONS**

- A. Disposal: Removal off-site of asbestos and hazardous material waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- B. Hazardous Materials: Materials requiring special handling and disposal including, but not limited to materials containing asbestos oils, PCBs, metals, CFCs and refrigerants
- C. Recycle: Recovery of demolition waste for subsequent processing in preparation for reuse.
- D. Salvage: Recovery of demolition waste and subsequent sale or reuse in another facility.

**1.3 PERFORMANCE REQUIREMENTS**

- A. Salvage and recycling of non-hazardous demolition material is encouraged.

#### 1.4 SUBMITTALS

- A. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
- B. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
- C. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- D. Landfill Disposal Records: Indicate receipt and acceptance of waste by landfills and facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- E. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

#### 1.5 QUALITY ASSURANCE

- A. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.

#### PART 2 - PRODUCTS (Not Used)

#### PART 3 - EXECUTION

##### 3.1 IMPLEMENTATION

- A. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
  - 1. Comply with Division 1 Section "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

##### 3.2 SALVAGING DEMOLITION WASTE

- A. Salvaged Items for Owner's Use:
  - 1. Clean salvaged items.
  - 2. Transport items to Owner's designated on-site storage area.

3. Protect items from damage during transport and storage.

### 3.3 RECYCLING DEMOLITION WASTE

- A. Concrete: The use of a concrete crushing plant on-site is allowed in accordance with all regulatory and permitting requirements. Recycled material may be reused onsite in accordance with the earthworks and grading specifications.

### 3.4 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
  - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
  - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.
- C. Disposal: Transport waste materials off Owner's property and legally dispose of them.

END OF SECTION 01524

**SECTION 01770**  
**CLOSEOUT PROCEDURES**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. This Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
  - 1. Inspection procedures.
  - 2. Final cleaning.
- B. See Division 1 Section "Payment Procedures" for requirements for Applications for Payment for Substantial and Final Completion.
- C. See Division 1 Section "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.
- D. See Division 2 Sections for specific closeout and special cleaning requirements for the Work in those Sections.

**1.2 SUBSTANTIAL COMPLETION**

- A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion, complete the following. List items below that are incomplete in request.
  - 1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
  - 2. Advise Owner of pending insurance changeover requirements.
  - 3. Prepare and submit Project Record Documents.
  - 4. Terminate and remove temporary facilities from Project site, along with tools, and similar elements.
  - 5. Complete final cleaning requirements.
- B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Owner will either proceed with inspection or notify Contractor of unfulfilled requirements. Owner will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Owner, that must be completed or corrected before certificate will be issued.

1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
2. Results of completed inspection will form the basis of requirements for Final Completion.

### 1.3 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for determining date of Final Completion, complete the following:
  1. Revise five subparagraphs below to match the Supplementary Conditions.
  2. Submit a final Application for Payment according to Division 1 Section "Payment Procedures."
  3. Submit certified copy of Owner's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Owner. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
  4. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Owner will either proceed with inspection or notify Contractor of unfulfilled requirements. Owner will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
  1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

### 1.4 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Preparation: Submit three copies of list. Include name and identification of each space and area affected by asbestos and hazardous material removal operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of asbestos and hazardous material removal.

## PART 2 - PRODUCTS (NOT USED)

## PART 3 - EXECUTION

### 3.1 FINAL CLEANING

- A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning:
  - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
    - a. Clean Project site, yard, and grounds, in areas disturbed by asbestos and hazardous material removal activities, of rubbish, waste material, litter, and other foreign substances.
    - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
    - c. Remove tools, equipment, machinery, and surplus material from Project site.
    - d. Leave Project clean and ready for further activity.
- C. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on Owner's property. Do not discharge volatile, harmful, or dangerous materials into the subsurface. Remove waste materials from Project site and dispose of lawfully.

END OF SECTION 01770

**SECTION 01781**  
**PROJECT RECORD DOCUMENTS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. This Section includes administrative and procedural requirements for Project Record Documents, including the following:
  - 1. Record Drawings.
  - 2. Record Specifications.
  - 3. Record Product Data.
- B. See Division 2 Sections for specific requirements for Project Record Documents of the Work in those Sections.

**1.2 SUBMITTALS**

- A. Record Drawings: Comply with the following:
  - 1. Number of Copies: Submit one set of marked-up Record Prints.
- B. Record Specifications: Submit **one copy** of Project's Specifications, including addenda and contract modifications.

**PART 2 - PRODUCTS**

**2.1 RECORD DRAWINGS**

- A. Maintain one set of black-line white prints of the Contract Drawings.
  - 1. Preparation: Mark Record Prints to show the actual demolition where asbestos and hazardous material removal varies from that shown originally.
    - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
    - b. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed areas.
  - 2. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
  - 3. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

## 2.2 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual demolition where demolition varies from that indicated in Specifications, addenda, and contract modifications.
  - 1. Give particular attention to information that cannot be readily identified and recorded later.
  - 2. Note related Change Orders and Record Drawings where applicable.

## 2.3 MISCELLANEOUS RECORD SUBMITTALS

- A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.

## PART 3 - EXECUTION

### 3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the demolition period for Project Record Document purposes. Post changes and modifications to Project Record Documents as they occur; do not wait until the end of Project.
- B. Maintenance of Record Documents and Samples: Store Record Documents and Samples in the field office apart from the Contract Documents used for demolition. Do not use Project Record Documents for demolition purposes. Maintain Record Documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to Project Record Documents for Owner's reference during normal working hours.

END OF SECTION 01781

## **DIVISION 2**

### **TECHNICAL SPECIFICATIONS**

## SECTION 02084

### ASBESTOS REMOVAL

#### PART 1 - GENERAL

##### 1.1 SCOPE

- A. Section includes the work elements listed below:
1. Removal and disposal of asbestos-containing materials (ACM) associated with demolition of the facilities.
  2. Completing asbestos removal work in compliance with all applicable federal, state, and local regulations.
  3. Notifications & permits associated with asbestos removal.

##### 1.2 REGULATORY REQUIREMENTS

- A. All activities of Contractor or Contractor employees shall conform to the following regulations, and any other applicable federal, state, or local regulations:
- B. Code of Federal Regulations (CFR), 29 CFR & 40 CFR, including but not limited to:
1. 29 CFR 1910.20 Access to Employee Exposure and Medical 1910.20 Records
  2. 29 CFR 1910.145 Specifications for Accident Prevention 1910.145 Signs and Tags
  3. 29 CFR 1910.134 Respiratory Protection 1910.134
  4. 29 CFR 1910 Toxic and Hazardous Substances (Subpart 2)
  5. 29 CFR 1910.120 Hazardous Communications Regulations
  6. 29 CFR 1926.1101 Asbestos
  7. 29 CFR 1926.1-.1051 Construction Industry Safety & Health Standards (US OSHA)
  8. 40 CFR PART 61 Subpart A & B General Provisions
  9. 40 CFR PART 61 Subpart M National Emission Standard for Asbestos

- 10. 40 CFR 241 Guidelines for the Land Disposal of Solid Wastes
  - 11. 40 CFR 257 Criteria for Classification of Solid Waste Disposal Facilities and Practices
  - 12. EPA560/5-83-002 Guidance for Controlling Friable ACM in Buildings
- C. American National Standards Institute (ANSI)
- 1. Z9.2-79 Fundamentals Governing the Design and Operation of Local Exhaust Systems
  - 2. Z88.2-80 Practices for Respiratory Protection
- D. National Institute of Occupational Safety and Health (NIOSH)
- 1. Manual of analytical Methods, 2nd Ed., Vol. 1, Physical and Chemical Analysis Method (P&CAM):
  - 2. Method 7400 Fibers (N1, 3rd Ed., Vol.1)
  - 3. Respiratory Protection - An Employer's Manual & Respiratory Protection - A Guide for the Employee
- E. U.S. Department of Transportation
- 1. CFR Title 49 - Hazardous Material Regulations Parts 172.101 & 173.1090
- F. Underwriters Laboratories, Inc. (UL) Publications
- 1. 586-77 Test Performance of High Efficiency, (R 1982) Particulate, Air Filter Units
- G. Wisconsin Administrative Code
- 1. Chapter NR 447 - Control of asbestos emissions
  - 2. DNR Chapter NR 500 - General Solid Waste Management
  - 3. Wisconsin HFS 159
- H. Other Regulations: All other federal, state, county, municipal, and local statutes, ordinances, regulations, or rules pertaining to asbestos, including its removal, storage, transportation and disposal; construction safety and health and hazard communication (worker right-to-know), and contractor or other licensure, certification and regulation, which are now in effect or which may come into effect prior to project completion.

### 1.3 SUBMITTALS

- A. Prior to commencement of work, the Contractor shall submit the following to the Owner:
1. Copies of notifications submitted to the Wisconsin Department of Natural Resources, Wisconsin Department of Health and Family Services, local authority.
  2. Copy of any information provided to the local authority, including permit application documents.
  3. Proof that required permits, site location and arrangements for transportation and disposal of asbestos containing waste materials have been made.
- B. Upon request, Contractor shall submit the following to the Owner:
1. Drawings for layout and construction of decontamination enclosure systems and barriers for isolation of the work area.
  2. A copy of handling procedures and list of protective equipment utilized for asbestos disposal at the landfill, signed by the landfill Owner/Operator.
  3. Documentation that personnel have received medical monitoring as required in OSHA 29 CFR 1910.1001 (1).
  4. Written respiratory protection program, which includes as a minimum, all items in OSHA 29 CFR 1910.134 (B) (1-11).
  5. Manufacturer's certification that HEPA vacuums, negative pressure ventilation units and other local exhaust ventilation equipment conform to ANSI Z9.2-79.
  6. When rental or borrowed equipment is used in asbestos and hazardous material removal activities and to transport asbestos and hazardous material waste, notify suppliers of equipment, including transportation, that equipment will be used in conjunction with asbestos and hazardous material removal activities.
  7. NIOSH approvals for all respiratory protective devices utilized on site. Include manufacturer certification of HEPA filtration capabilities for all cartridges and filters.
  8. Evidence that the asbestos contractor is thoroughly familiar with Federal and State EPA, OSHA, NESHAP, and other institutional requirements for removal, handling, transporting, and disposal of asbestos containing material.

9. Proof of successful completion of at least three (3) similar projects. The proof or documentation shall include:
    - a. Description of projects.
    - b. Size and duration of projects.
    - c. Project references.
    - d. All state certification requirements as applicable.
  10. Records indicating that the prospective abatement contractor has knowledge or experience in proper engineering techniques, i.e., HEPA exhausts filtration, air locks, etc. needed to contain asbestos and prevent the release of fibers.
- C. During removal activities, Contractor shall submit:
1. Job progress reports, not less than weekly, detailing removal activities.
  2. Copies of all waste manifests and test data resulting from asbestos removal activities. Submit within thirty (30) days after load-out, or sooner if requested by the Owner and/or Owner's Representative, original duplicates of the chain-of-custody forms signed by the disposal site operator evidencing acceptance of the waste ACM.

## PART 2 - MATERIALS

### 2.1 TOOLS AND EQUIPMENT

- A. Supply all personal protection equipment and monitoring of workers' exposure to potentially regulated hazardous materials.
- B. Make available the following equipment:
  1. Internal communications devices;
  2. Portable fire extinguishers, spill control equipment, and decontamination equipment;
  3. Equipment to access water to supply decontamination activities.
- C. Warning Signs and Labels: Provide warning signs for staging and removal areas at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Prepare and affix labels to containers as required to accurately document the contents.
- D. Other Tools and Equipment: Provide all tools to complete the removal work, including suitable tools for the transfer, removal, disposal and loading activities including but not limited to; dollies, carts, bobcats, trucks, lifts, etc.

## PART 3 - EXECUTION

### 3.1 COORDINATION AND SCHEDULING

- A. The work site shall be made available to authorized government personnel who have authority to inspect the work site and to conduct inspections and make tests for EPA and OSHA and local authority compliance.
- B. Coordinate with the local authority, Owner, Owner's Representative and others for the successful completion of the project.

### 3.2 WORK PROCEDURES

- A. For all removal projects, the Contractor shall send written notification to Wisconsin Department of Health and Human Services in accordance with 40 CFR Part 61.146 of Subpart M, and Chapter HFS 159, Wisconsin Administrative Code, at least ten (10) business days prior to commencement of any work. Provide Owner with a copy of the Notice.
- B. Contractor shall send written notices to appropriate State and local pollution control agency responsible for enforcement of National Emission Standard for Asbestos in time frames required by law prior to the commencement of any on-site project activity in conformance with 40CFR Part 61.146 of Subpart M, Chapter NR447, Wisconsin Administrative Code, and any applicable local requirements. Provide Owner's Representative with a copy of the Notice.
- C. Contractor shall remove and dispose of asbestos containing materials in compliance with 40 CFR 61 NESHAP and NR447.
- D. All asbestos and hazardous material removal activities shall be conducted in accordance with the EPA 40 CFR Part 763 and WDNR and EPA accepted work practices.
- E. The Contractor shall have at least one on-site representative that is trained and has current Wisconsin HFS 159 Asbestos Supervisor certification. All abatement personnel must have current Wisconsin HFS 159 Asbestos Worker or Supervisor certification.
- F. During the Work, a potential exists for encountering additional asbestos materials and other hazardous materials, and for asbestos and other hazardous materials previously hidden to become exposed. Maintain a minimum of one individual on site during the Work to be designated as a "Competent Person". This individual shall be familiar with applicable asbestos and hazardous materials related regulations, have the experience to recognize potential work crew and environmental exposures, institute proper personal protective equipment and personnel monitoring as necessary, and have the authority to stop work. All discoveries of suspect asbestos or other hazardous materials shall be reported immediately to the Owner and/or Owner's Representative so that the appropriate measures can take place.

- G. Contractor may not collect suspect asbestos samples or submit them for laboratory analysis without first obtaining permission from the Owner. If contractor does collect samples and obtain laboratory results without obtaining the Owner's authorization, the contractor will be responsible for any and all additional removal and disposal costs associated those samples.
- H. It is the responsibility of the Contractor to provide all personal protective equipment required to maintain employee health and safety.
- I. Personal Sampling: It is the responsibility of the Contractor to perform personal air sampling as required under OSHA 29 CFR 1926.1101.
- J. Hygiene Facilities: Contractor shall provide adequate decontamination facilities for their employees as required by federal and state regulations.
- K. Removal: Asbestos-containing materials must be removed using wet methods in accordance with federal, state and local regulations. Material shall be wetted before removal begins, maintained wet during removal, and kept adequately wet until final disposal at the approved landfill. Asbestos and hazardous material removal activities shall be conducted in accordance with recognized industry standards and applicable federal, state and local regulations.
- L. Perform asbestos removal work in accordance with 29 CFR 1926.1101 and applicable State and Local regulations and as specified herein. Personnel of other trades not engaged in the removal and disposal of asbestos shall not be exposed at any time to airborne concentrations of asbestos in excess of 0.01 fibers per cubic centimeter unless the training and personnel protection provisions of this specification are complied with by the trade personnel.
- M. If during any component removal operation a major release episode occurs, immediately notify the Owner's Representative and/or Owner and implement response actions in accordance with current regulations and the personnel protective provisions of this specification.
- N. Provide warning signs at approaches to regulated areas containing airborne asbestos fibers. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Provide labels and affix to asbestos materials, scrap, waste, debris, and other products contaminated with asbestos.
- O. Warning Signs: Provide warning signs that are of sufficient size (minimum dimensions of 14" X 20") to be clearly legible and display the following information:

DANGER  
ASBESTOS  
CANCER AND LUNG DISEASE HAZARD  
AUTHORIZED PERSONNEL ONLY  
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS  
AREA

- P. Site Inspection: While performing asbestos removal work, the Contractor shall be subject to on-site inspection by entities including the WDNR and the local authority who may be assisted by safety or health personnel. If the work is in violation of specification requirements or regulatory requirements, the Owner may issue a stop work order to be in effect immediately and until the violation is corrected. Standby time and expenses required to correct the violation shall be at the Contractor's expense.
- Q. Following this section is a "Certificate of Visual Inspection". Complete this certification for each individual containment or work component or as directed by Owner. Submit completed copies to Owner.

### 3.3 FINAL CLEANING

- A. Contractor shall execute cleaning prior to inspection for Substantial Completion and Final Payment.
- B. Final cleaning shall include, but not be limited, to the following:
  - 1. Remove asbestos waste, debris, and materials used for asbestos removal, from buildings and site.
  - 2. Remove temporary protection for asbestos removal.
- C. Final Clean-Up: Contractor is responsible for final clean-up of work area to meet established clearance levels. Practices shall include (but not be limited to) gross clean-up, visual inspection, HEPA vacuum procedures, and wet wipe procedures.
- D. Conduct visual inspection of the work area with Owner for any remaining visible residue. Evidence of asbestos materials will necessitate additional cleaning requirements at Contractors expense.
- E. Contractor is responsible for waste disposal at an approved landfill. Waste disposal shall follow all applicable federal, state and local regulations. Contractor shall submit copies of the landfill receipts to Owner and/or Owner's Representative prior to final payment.

### 3.4 MONITORING & CLEARANCE

- A. Contractor shall facilitate and cooperate fully with air monitoring activities, and shall take no action intended to distort or falsify measurements of fiber concentrations and shall not interfere with these air monitoring activities.
- B. The Owner may hire a firm to perform air monitoring outside of work areas and adjacent to the work areas. If these measurements indicate contamination outside of the work area from contractor operations, the Owner may notify contractor to immediately cease operation until the presence of contamination is verified and corrected to the satisfaction of the Owner. Resume asbestos operation only upon receiving written authorization from the Owner.

### 3.5 CLOSEOUT PROCEDURES

- A. When the Work is complete, submit written certification that Contract Documents have been reviewed, Work has been inspected, deficiencies have been corrected and that the Work is complete in accordance with Contract Documents and ready for final review.
- B. Submit Project Log and copies of all other documentation as required by this specification.
- C. Provide submittals to Owner and/or Owner's Representative that are required by governing or other authorities and Contract Documents.
- D. Reinspection Fees: Should status of completion of Work require reinspection by Owner and/or Owner's Representative due to failure of Work to comply with Contractor's claims on initial inspection, Owner will deduct the amount of Owner's Representative for reinspection services from final payment to Contractor.

CERTIFICATE OF VISUAL INSPECTION  
ASBESTOS REMOVAL

BUILDING NAME: \_\_\_\_\_

DESCRIPTION OF AREA COVERED BY THIS CERTIFICATE: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

In accordance with Section 2084, Asbestos Removal, the contractor hereby certifies that it has visually inspected the work area and has found no remaining asbestos debris or residue.

By: \_\_\_\_\_  
(Signature)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

Owner's Representative Certification

Owner's Representative hereby certifies that it has accompanied contractor in its visual inspection, and to the best of its knowledge and belief, the above certification is true and honest.

By: \_\_\_\_\_  
(Signature)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

END OF SECTION 02084

## SECTION 02085

### REMOVAL OF PCB-CONTAINING DEVICES

#### PART 1 - GENERAL

##### 1.1 SCOPE

- A. Section includes work elements listed below:
- B. Removal, handling, transportation, and disposal of the following type(s) of PCB-Containing Devices:
  - 1. PCB-Containing Lighting Ballasts

##### 1.2 REGULATORY REQUIREMENTS

- A. Bear complete responsibility for worker safety and adherence to all environmental laws, regulation and standards relating to the Work of this Section, including but not limited to the regulations and publications outlined in this subsection.
- B. The regulations and publications listed in this subsection are hereby incorporated by reference into this specification.
- C. Local Authority. Abide by all local requirements that govern PCB removal work or hauling and disposal of PCB waste materials.
- D. State Authority. Wisconsin Administrative Code:
  - NR Ch. 157 Management of PCBs and Products Containing PCBs
  - NR Ch. 600-690 Hazardous Waste Management
- E. Federal Authority. Code of Federal Regulation
  - 1. 29 CFR 1910 Occupational Safety and Health Standards
  - 2. 40 CFR 61 General Provisions
  - 3. 40 CFR 260 Hazardous Waste Management Systems: General
  - 4. 40 CFR 261 Identification and Listing of Hazardous Waste
  - 5. 40 CFR 262 Standards Applicable to Generators of Hazardous Waste
  - 6. 40 CFR 263 Standards Applicable to Transporters of Hazardous Waste
  - 7. 49 CFR 171 General Information, Regulations and Definitions

8. 49 CFR 172 Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information and Training Requirements
9. 49 CFR 173 Shippers - General Requirements for Shipments and Packaging
10. 49 CFR 177 Carriage by Public Highway
11. 40 CFR 761 Polychlorinated Biphenyls (PCBs), Manufacturing, Processing, Distribution, Commerce and Use Prohibitions

### 1.3 DEFINITIONS

- A. PCBs: Class of organic compounds generally known as polychlorinated biphenyls and includes any of several compounds produced by replacing two or more hydrogen atoms on the biphenyl molecule with chlorine atoms.

### 1.4 SUBMITTALS

- A. Submit to Owner:
  1. Prior to start of work, a list of disposal facility(s) that have been proposed to receive the waste. The list of disposal facility(s) shall include facility name, address, contact person, telephone number and EPA permit number.
  2. Upon request, submit proposed list of any solvents, sorbents and liquid cleaners to be used for decontamination of any PCB clean up activities.
  3. Upon request, samples of proposed manifest and tracking documents for types of wastes to be transported.
  4. Submit within twenty (20) days after the day of shipment or sooner if requested by the Owner, an original copy of the trip tickets, manifests, tracking forms and other forms including those signed by the company receiving the wastes as evidence that the waste was delivered and disposed (and/or recycled) in accordance with all applicable regulations.

## PART 2 - PRODUCTS

### 2.1 TOOLS AND EQUIPMENT

- A. Containers used for the transportation of waste shall meet the requirements of State of Wisconsin Department of Transportation (DOT).
- B. Other Tools and Equipment: Provide all other suitable tools and equipment for the handling, removal, transportation and disposal of wastes, including but not limited to ladders, dollies, carts, trucks, etc.

## 2.2 CONTAINERS

- A. Comply with all DOT requirements and regulatory requirements for containers used in transport, and any additional requirements of the disposal/recycling facility. All containers for PCB-containing wastes shall be leak-proof.

## 2.3 WASTE TRACKING FORMS

- A. In accordance with Chapter NR 157.03, use waste tracking forms provided by or approved by the WDNR. These forms include the Wisconsin hazardous waste manifest form.

# PART 3 - EXECUTION

## 3.1 GENERAL

- A. The work includes providing all labor, equipment, materials, appurtenances and incidentals required for the staging, packaging, removal, transporting and recycling of PCB-containing devices located within the project limits.
- B. Management of PCBs and PCB containing products shall be in accordance with the requirements of all applicable local, state, and federal regulations, including Chapter NR 157 of the Wisconsin Administrative Code.
- C. If the work is in violation of specification requirements or of regulatory requirements, the Owner may issue a stop work order to be in effect immediately and until the violation is corrected. Standby time and expenses required to correct the violation shall be at the Contractor's expense.
- D. Disconnect power from all PCB-containing devices in the work area prior to removing them. Schedule and coordinate disruption or disconnection of power with Owner.

## 3.2 REMOVAL AND HANDLING

- A. Personnel of other trades not engaged in the removal and disposal of regulated waste materials shall not be exposed at any time to the wastes.
- B. Make every effort not to break or cause any spillage of PCBs from the PCB-containing devices.
- C. Container Usage:
  - 1. Incompatible wastes or waste material must not be placed in the same container.
  - 2. PCB-Containing lighting ballasts shall be containerized separately from other waste materials.
  - 3. Marking/ Labeling of Waste Containers: The date upon which each period of accumulation begins must be clearly marked on all containers, along with the name of the waste generator and the waste destination.
  - 4. Comply with container requirements of NR 157.

- D. Certificate of Visual Inspection: Confirm that all PCB-containing devices have been removed. Include all surfaces, ceilings, walls and floors that have come into contact with PCBs. Remove any PCB liquid residue that is found. For areas that are visually clean of PCBs, complete the certification at the end of this section.

### 3.3 TRANSPORTATION

- A. Package and label PCB-Containing Devices for transportation and delivery in accordance with WDNR requirements, DOT requirements and the requirements of the recycling facility that is to accept the waste. Document the transportation of waste according to Federal and State regulations. Prepare all manifest documents for signature by the Owner's Representative at least 48 hours prior to loading and shipping off-site.
- B. Transporters shall comply with all requirements of Chapter NR 157.
- C. Provide the transporter with a material safety data sheet attached to the manifest or bill of lading to maintain during shipment in the event of an emergency response, and to be transferred to the disposal facility for off-loading purposes.
- D. Perform a pre-transportation inspection of the waste to verify container marking, labels, manifests, bill of lading documents, placards and storage on the vehicle.
- E. Complete waste tracking and manifest forms in accordance with Chapter NR 157 of the Wisconsin Administrative Code.

### 3.4 RECYCLING/DISPOSAL

- A. Dispose of PCBs and PCB-containing products at an approved facility in accordance with Chapter NR 157.
- B. Owner's Representative may observe loading, transportation, or off-loading procedures at any time deemed necessary to assure compliance with these specifications and current regulations. Owner's Environmental Representative may at any time site check manifest documents for accuracy.

**CERTIFICATE OF VISUAL INSPECTION  
REMOVAL OF PCB-CONTAINING DEVICES**

**BUILDING NAME:** \_\_\_\_\_

**DESCRIPTION OF AREA COVERED BY THIS CERTIFICATE:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

In accordance with Section 2085 - Removal of PCB-Containing Devices, the Contractor hereby certifies that it has visually inspected the work area, and has found no remaining visible evidence of PCB devices, solids or liquids.

**By:** \_\_\_\_\_  
(Signature)

**Date:** \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

Owner's Environmental Representative Certification

The Owner's Environmental Representative hereby certifies that it has accompanied the contractor in its visual inspection and verifies that this inspection has been thorough and to the best of its knowledge and belief, the above certification is true and honest.

**By:** \_\_\_\_\_  
(Signature)

**Date:** \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

END OF SECTION 02085

## SECTION 02086

### LAMPS AND MERCURY CONTAINING DEVICES

#### PART 1 - GENERAL

##### 1.1 SCOPE

- A. Section includes work elements listed below:
  - 1. The removal, handling, transportation, recycling/disposal of lamps and mercury containing devices.

##### 1.2 REGULATORY REQUIREMENTS

- A. Bear complete responsibility for worker safety and adherence to all environmental laws, regulations, and standards relating to the work of this section, including but not limited to, the regulations and publications outlined in this subsection.
- B. The regulations and publications listed in this subsection are hereby incorporated by reference into this specification.
- C. Local Authority. Abide by all local requirements that govern mercury removal work or hauling and disposal of mercury waste materials.
- D. State Authority. Wisconsin Administrative Code:
  - 1. NR Chapters 500-590      Environmental Protection/Solid Waste Management
  - 2. NR Chapters 600-690      Hazardous Waste/Universal Waste Management
  - 3. WDNR Publication: *Management of Special Wastes*, Bureau of Solid and Hazardous Waste Management, WDNR File Reference: Special Wastes, April 6, 1996.
  - 4. WDNR Publication: *Management of Waste Lamps and Light Bulbs*, Bureau of Solid and Hazardous Waste Management, WDNR File Reference: 4430, January 7, 1993.
- E. Federal Authority. Code of Federal Regulation
  - 1. 29 CFR 1910      Occupational Safety and Health Standards
  - 2. 40 CFR 61      General Provisions
  - 3. 40 CFR 260      Hazardous Waste Management System: General

- |     |            |   |
|-----|------------|---|
| 4.  | 40 CFR 261 | Identification and Listing of Hazardous Waste   |
| 5.  | 40 CFR 262 | Standards Applicable to Generators of Hazardous Waste   |
| 6.  | 40 CFR 263 | Standards Applicable to Transporters of Hazardous Waste   |
| 7.  | 40 CFR 273 | Universal Waste Rule  |
| 8.  | 49 CFR 171 | General Information, Regulations and Definitions  |
| 9.  | 49 CFR 172 | Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information and Training Requirements |
| 10. | 49 CFR 173 | Shippers - General Requirements for Shipments and Packaging   |
| 11. | 49 CFR 177 | Carriage by Public Highway  |
- F. NIOSH: National Institute for Occupational Safety and Health worker protection recommendations.

### 1.3 DEFINITIONS

- A. Lamps: Items that serve as an artificial, continuous source of illumination through the generation of electromagnetic radiation by electricity. Examples include fluorescent light tubes and capsules, incandescent light bulbs high intensity discharge lamps and mercury-vapor and sodium-vapor lamps.
- B. Mercury Containing Device: Any device in which mercury is purposely introduced by the manufacturer for the operation or use of the device, including mercury containing thermostats, switches, thermometers and lamps.

### 1.4 SUBMITTALS

- A. Submit to Owner prior to the start of work.
1. Proposed locations for waste storage and staging areas.
  2. List of disposal facility(s) that have been proposed to receive the waste. The list of disposal facility(s) shall include facility name, address, contact person, telephone number and EPA permit number.
- B. Submit within twenty (20) days after the day of shipment or sooner if requested by the Owner, an original copy of the trip tickets, manifests, tracking forms and other forms including those signed by the company receiving the wastes as evidence that the waste was delivered and disposed (and/or recycled) in accordance with all applicable regulations.

## PART 2 - PRODUCTS

### 2.1 TOOLS AND EQUIPMENT

- A. Supply all personal protection equipment and monitoring of workers' exposure to potentially regulated hazardous materials.
- B. Containers used for the transportation of waste shall meet the requirements of State of Wisconsin Department of Transportation (DOT).
- C. Mercury Spill Clean-up Kit: Provide a clean-up kit capable of safely absorbing spilled mercury.
- D. Other Tools and Equipment: Provide all other suitable tools and equipment for the handling, removal, transportation and disposal of wastes, including but not limited to containers, ladders, dollies, carts, trucks, etc.

### 2.2 WASTE TRACKING FORMS

- A. Comply with all waste manifest and tracking regulations of the consignment state.
- B. For lamps and mercury devices transported to a recycling facility in Wisconsin, use a Wisconsin hazardous waste manifest, or alternatively, the Contractor may use a hazardous waste "Bill of Lading" form provided by the recycling facility in lieu of the hazardous waste manifest form unless a spill or release has occurred.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. The work includes providing all labor, equipment, materials, appurtenances and incidentals required for the staging, packaging, removal, transporting and recycling of lamps and mercury containing devices located within the project limits. This work includes the clean up of adjacent materials or surfaces that become contaminated with hazardous materials as a result of the work (e.g., containers, pallets, walls, floors). Such materials and adjacent surfaces shall be cleaned at contractor's expense until no chemical evidence of the waste is present. The clean up and disposal of waste and wastes generated from these clean up activities shall comply with all OSHA, federal, state, and local requirements. The work includes decontamination activities and the removal and proper off-site disposal of all wastes generated as a result of clean-up activities.
- B. If the work is in violation of specification requirements or of regulatory requirements, the Owner may issue a stop work order to be in effect immediately and until the violation is corrected. Standby time and expenses required to correct the violation shall be at the Contractor's expense.
- C. Disconnect power from all lamps and mercury containing devices in the work area prior to removing the lamps and mercury containing devices. Schedule and

coordinate disruption or disconnection of power with Owner's Environmental Representative. Notify Owner at least three days in advance of any power disconnections/ disruptions.

### 3.2 REMOVAL AND HANDLING

- A. Personnel of other trades not engaged in the removal and disposal of regulated waste materials shall not be exposed at any time to the wastes.
- B. Make every effort not to break or reduce the size of waste lamps and light bulbs, or mercury devices. Hazardous waste generator regulations prohibit the breaking of waste lamps and light bulbs.
- C. Package accidentally broken waste lamps or light bulbs in tough plastic bags, and then in a durable, tightly covered, DOT approved container.
- D. Container Usage:
  - 1. Incompatible wastes or waste material must not be placed in the same container.
  - 2. Lamps shall be containerized separately from other waste materials. Lamp containers shall be of rigid construction and specifically designed to store and prevent breakage of the lamps, Superior Lamp Recycling Storage Containers, 1275 Mineral Springs Drive, Port Washington, Wisconsin, or equal. Lamp Containers shall be clearly marked, "USED LAMPS: GLASS, FRAGILE - HANDLE WITH CARE".
  - 3. Mercury Devices: Containers for mercury devices other than lamps, including mercury thermostats, shall be WDOT approved 55-gallon plastic drums, or equal. All containers that hold mercury devices other than lamps shall be clearly marked "UNIVERSAL WASTE - MERCURY DEVICE".
  - 4. Marking/Labeling of Waste Containers: The date upon which each period of accumulation begins must be clearly marked on all containers, along with the name of the waste generator and the waste destination.

### 3.3 TRANSPORTATION

- A. Package and label waste lamps and bulbs for transportation and delivery in accordance with DOT requirements and the requirements of the recycling facility that is to accept the waste. Document the transportation of waste bulbs according to Federal and State DOT regulations. Prepare all manifests and bill of lading documents for signature by the Owner's Environmental Representative at least 48 hours prior to loading and shipping off-site.
- B. Provide the transporter with a material safety data sheet attached to the manifest or bill of lading to maintain during shipment in the event of an emergency response, and to be transferred to the disposal facility for off-loading purposes.
- C. Perform a pre-transportation inspection of the waste to verify container marking, labels, manifests, bill of lading documents, placards and storage on the vehicle.

### 3.4 RECYCLING/ DISPOSAL

- A. All unbroken lamps and mercury devices shall be recycled at a State of Wisconsin permitted recycling facility. Transportation of material out of the State of Wisconsin should only occur if no facility could accept the waste within the State of Wisconsin.
- B. Contractor is responsible for the disposal or recycling of broken lamps. If a lamp recycler cannot be found to accept broken lamps, manage these lamps as hazardous waste.
- C. Owner may observe loading, transportation, or off-loading procedures at any time deemed necessary.

**CERTIFICATE OF VISUAL INSPECTION  
LAMPS AND MERCURY CONTAINING DEVICES**

**BUILDING NAME:** \_\_\_\_\_

**DESCRIPTION OF AREA COVERED BY THIS CERTIFICATE:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

In accordance with Section 2086 - Lamps and Mercury Containing Devices, the Contractor hereby certifies that it has visually inspected the work area, has found no visible mercury, and that all mercury containing lamps and mercury containing devices have been removed from the area.

**By:** \_\_\_\_\_  
(Signature)

**Date:** \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

Owner's Environmental Representative Certification

The Owner's Environmental Representative hereby certifies that it has accompanied the contractor in its visual inspection and verifies that this inspection has been thorough and to the best of its knowledge and belief, the above certification is true and honest.

**By:** \_\_\_\_\_  
(Signature)

**Date:** \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

END OF SECTION 02086

## SECTION 02087

### DECOMMISSIONING OF CFC EQUIPMENT

#### PART 1 - GENERAL

##### 1.1 SCOPE

- A. Section includes work elements listed below:
- B. The removal of ozone-depleting refrigerants (CFCs) from CFC containing devices.

##### 1.2 REGULATORY REQUIREMENTS

- A. Bear complete responsibility for worker safety and adherence to all environmental laws, regulation and standards relating to the work of this section, including but not limited to the regulations and publications outlined in this subsection.
- B. The regulations and publications listed in this subsection are hereby incorporated by reference into this specification.
- C. Local Authority. Abide by all local requirements that govern CFC removal, handling and recycling/ disposal.
- D. State Authority. Wisconsin Administrative Code:
  - 1. NR Chapter 488 Refrigerant Recovery from Salvaged or Dismantled Refrigeration Equipment
  - 2. NR Chapters 500-590 Environmental Protection - Solid Waste Management
- E. Federal Authority. Code of Federal Regulations
  - 1. 29 CFR Labor
  - 2. 40 CFR Protection of the Environment

##### 1.3 SUBMITTALS

- A. Upon request, provide copies of the annual registration of certification obtained from the WDNR under Chapter NR 488 for each person that is to salvage or dismantle refrigeration equipment. No worker involved in the salvaging or dismantling of refrigeration equipment shall be permitted to work on this project unless proper documentation is provided.
- B. Prior the start of work, submit for the work outlined in this specification section a list of facility(s) which have been proposed to receive the refrigerant.

- C. Compliance Documentation: Submit to the Owner within thirty (30) days after the completion of decommissioning activities or sooner if requested by the Owner, copies of all manifests and all refrigerant recovery activity records kept in accordance with NR 488.06.
- D. Submit copies of all test results of CFC refrigerants.
- E. Certificates of Visual Inspection.

## PART 2 - PRODUCTS

### 2.1 TOOLS AND EQUIPMENT

- A. Supply all required tools and equipment to perform the work of this section, including:
  - 1. All personal protection equipment and monitoring of workers' exposure to potentially regulated hazardous materials.
  - 2. Internal communications devices.
  - 3. Spill control equipment and decontamination equipment.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. Recovery of ozone-depleting refrigerants shall be in accordance with the requirements of the local authority and Chapter NR 488 of the Wisconsin Administrative Code.
- B. No person may salvage or dismantle any refrigeration equipment unless that person holds an annual registration of certification obtained from the WDNR under Chapter NR 488. The registration and certification information shall be available to the Owner and kept on site at all times during the salvage and dismantling of refrigeration equipment.
- C. No person may salvage or dismantle any refrigeration equipment unless the refrigeration or salvage equipment is approved by the WDNR under Chapter NR 488.
- D. Keep records of all salvaging and dismantling of refrigeration equipment in accordance with Chapter NR 488.
- E. Spills and Releases: If during any portion of the work, a release of a regulated material occurs, then immediately notify the Owner and implement response actions in accordance with current regulations and the personnel protective provisions of this specification.
- F. Site Inspection: While performing the work, the Contractor shall be subject to on-site inspection by qualified representatives who may be assisted by safety or

health personnel. If the work is in violation of specification requirements or regulatory requirements, the Owner may issue a stop work order to be in effect immediately and until the violation is corrected. Standby time and expenses required to correct the violation shall be at the Contractor's expense.

- G. Perform all testing required to properly recycle/dispose of CFCs.
- H. At the end of this section is a "Certificate of Visual Inspection". This certification shall be completed by the CFC removal contractor.
- I. Upon removing any refrigerants from a device, clearly identify on the device that the refrigerant has been removed.

### 3.2 TRANSPORTATION

- A. Provide vehicle and transportation services to transport recovered CFCs to an approved facility. Verify that the transporter is certified under Chapter NR 488.10 has not been cited for violations by the EPA or DOT within the last one (1) year. Provide the transporter with emergency response information during transportation of CFCs, including; material safety data sheet, precautions to be taken in the event of an incident; initial methods for handling spills; and first aid measures.
- B. Owner may observe loading or off-loading procedures at any time deemed necessary to assure compliance with these specifications and current regulations.

**CERTIFICATE OF VISUAL INSPECTION  
DECOMMISSIONING OF CFC EQUIPMENT**

**BUILDING NAME:** \_\_\_\_\_

**DESCRIPTION OF AREA COVERED BY THIS CERTIFICATE:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

In accordance with Section 2087 - Decommissioning of CFC Equipment, the CFC removal contractor hereby certifies that it has visually inspected the work area. All devices have been inspected and documentation has been provided indicating that the evacuation level required by regulation for the particular device has been achieved. Attach evacuation level documentation to this certificate of visual inspection.

**By:** \_\_\_\_\_  
(Signature)

**Date:** \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

Owner's Environmental Representative Certification

The Owner's Environmental Representative hereby certifies that it has accompanied the contractor in its visual inspection and verifies that this inspection has been thorough and to the best of its knowledge and belief, the above certification is true and honest.

**By:** \_\_\_\_\_  
(Signature)

**Date:** \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

END OF SECTION 02087

## SECTION 02095

### LEAD BASED PAINT

#### PART 1 - GENERAL

##### 1.1 SCOPE

A. Section includes the work elements listed below:

1. Lead emissions & exposure.
2. Worker notification requirements.

##### 1.2 REGULATORY COMPLIANCE

A. Comply with all applicable rules, regulations, codes and ordinances of Local, State and Federal Authorities including but not limited to:

B. Local Authority. Abide by all local requirements which pertain to lead exposure.

C. State Authority. Wisconsin Administrative Code:

1. ILHR Chapter 32 Safety and Health Standards for Public Employees
2. NR Chapter 427 Control of Lead Emissions
3. NR 500 Series Solid Waste Rules
4. NR 600 Series Hazardous Waste Rules

"Concrete Recycling and Disposal Fact Sheet", WDNR Publication WA-605 2004.

D. Federal Authority. Code of Federal Regulations:

1. 40 CFR Protection of the Environment
2. 29 CFR Labor; specifically including but not limited to:  
  
29 CFR Part 1926: Safety and Health Regulations for Construction, specifically including but not limited to:  
Subpart Z - Toxic and Hazardous Substances

##### 1.3 DEFINITIONS

A. HEPA: High Efficiency Particulate Air (filter)

B. LPB: Lead Based Paint

- C. LCM: Lead Containing Material
- D. Lead Paint: For recycling and disposal purposes, lead paint is defined as more than 1.0 milligram of lead per square centimeter of paint surface.
  - 1. From the Wisconsin Department of Health Services site "Wisconsin Statutes and Administrative Rules for Lead Poisoning Prevention":
    - a. Effective July 14, 2015, the definition of lead-bearing paint in Wis. Stat. §254.11 (8) was revised to read, "Lead-bearing paint means any paint or other surface coating material containing more than 0.06% lead by weight, calculated as lead metal, in the total nonvolatile content of liquid paint, more than 0.5 percent lead by weight in the dried film of applied paint, or more than 1 milligram of lead per square centimeter in the dried film of applied paint."
  - 2. The EPA defines LBP in 40 CFR Part 745 as the following:
    - a. Lead-based paint is defined by statute as paint with lead levels equal to or exceeding 1.0 milligrams per square centimeter (mg/cm<sup>2</sup>) or 0.5% by weight (see section 302(c) of the Lead Poisoning Prevention Act (42 U.S.C. 4822(c)) and TSCA section 401(9) (15 U.S.C. 2681(9)).
- E. PEL: Permissible Exposure Level

#### 1.4 SUBMITTALS

- A. Submit the results of any lead testing.
- B. Submit information on any proposed operations to remove or strip lead paint. Such chemicals or materials shall not be used unless approved by the Owner and the Owner's Environmental Representative. Information required for submittal includes, but is not limited to product description, MSDS sheets and chemical composition.
- C. Obtain permission from Owner's Representative before performing any lead testing or analysis.

### PART 2 - PRODUCTS

#### 2.1 MATERIAL & CHEMICALS FOR REMOVAL

- A. Only materials and chemicals approved by Owner and Owner's Environmental Representative may be used for the removal of lead paint.

### PART 3 - EXECUTION

### 3.1 GENERAL

- A. Obtain from the Owner's Environmental Representative existing documentation/ environmental surveys and conduct any additional or appropriate field testing, if necessary, to determine the nature of the existing structure to be demolished and the appropriate environmental controls for the activities to be performed. Provide additional testing or information if during the course of the Project the local authorities, WDNR, OSHA, or any other regulatory authority requires additional testing or information to be provided.
- B. Provide all protection, safety, and health requirements in accordance with OSHA, USEPA, State, local, and all other laws, regulations, and safe practices.

### 3.2 PERMITS AND NOTIFICATION

- A. Obtain the appropriate permits and notification approvals prior to initiation of work activities.

### 3.3 LEAD EXPOSURE

- A. The presence of lead based paint within the work area has been documented.
- B. Notify all employees involved in the work in accordance with DNR and OSHA regulations. Employees must be fully trained in the requirements of 29 CFR Part 1926.62, and must be aware of the health effects of lead on them.
- C. Read and understand 29 CFR 1926.62, and comply with the requirements spelled out within. These include, but are not limited to, physical evaluations for all field personnel that may need wear personal respiratory protection, based upon expected lead exposure conditions determined by the contractors' assessment of the job's scope. Such evaluations include baseline blood-lead levels of workers to determine if an employee has a pre-existing lead condition. Workers shall be prepared to undergo medical monitoring for lead if necessary.
- D. Have a respiratory protection program in-place in accordance with OSHA 1910.134.
- E. Make provisions to accommodate cost associated with providing continued lead exposure protection.
- F. Perform an Initial Exposure Assessment: Determine whether any employee may be exposed to lead at or above the permissible exposure limit (PEL) as required in 29 CFR Part 1926.62. The first day of the project must be devoted to the monitoring of the job-site, to determine if continued respiratory protection is required.
  - 1. Until an exposure assessment has been performed, treat the employee as if the employee were exposed above the PEL. Protective measures, as defined in 29 CFR Part 1926.26 shall be implemented.

2. If it is determined that a possibility of an employee exposure at or above the PEL exists, conduct monitoring which is representative of the exposure for each employee who may be exposed to lead in accordance with 29 CFR Part 1926.26.
  3. If it is determined that no employee will be exposed to airborne concentrations of lead at or above the PEL, document such determination in accordance with 29 CFR Part 1926.26.
- G. Implement construction management and work practice controls to reduce and maintain employee exposure to lead below the PEL and to minimize the potential release of airborne lead-containing material into the environment. Where such practices are not sufficient, provide the employee with the appropriate protective equipment that complies with regulatory requirements.

Controls to prevent airborne concentrations of lead containing material (LCM) to be released into the workplace and the environment include, but are not limited to the following:

1. Adequately wet LCM during demolition or construction activities to minimize airborne dust.
2. Maintain surfaces as free as possible of accumulations of LCM.
3. Clean-up floor and other surfaces where potential LCM accumulates by HEPA vacuuming or other methods that minimize the likelihood of lead becoming airborne.
4. Shoveling, dry or wet sweeping, and brushing may be used only where vacuuming or equivalent methods have been determined not to be effective.
5. For vacuuming methods, the vacuums shall be equipped with HEPA filters and used and emptied on a manner minimizing reentry of lead into the workplace or environment.
6. Compressed air shall not be used to remove lead from any surface unless used in conjunction with a ventilation system designed to contain the airborne dust created by the compressed air.

### 3.4 DISPOSAL

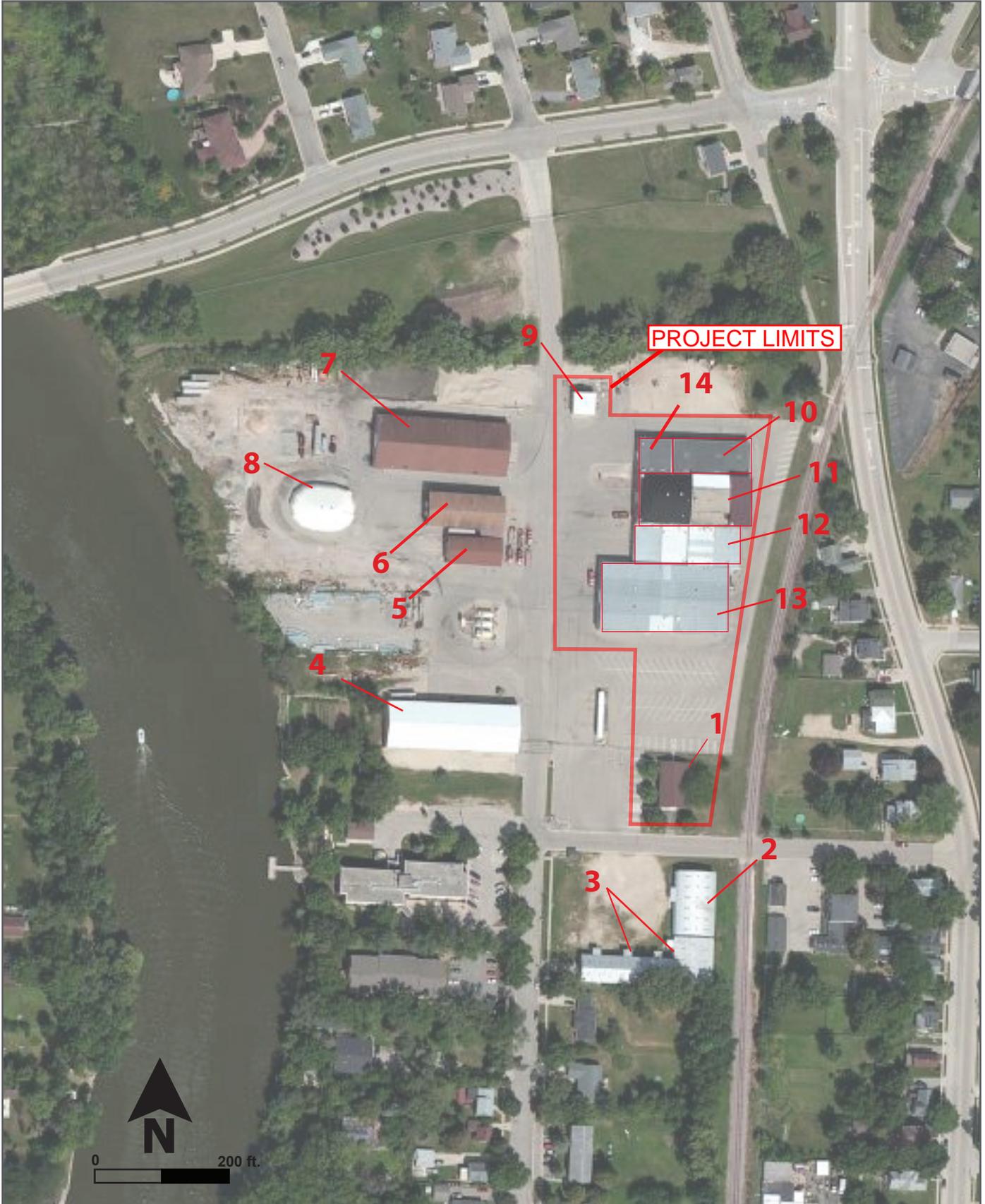
- A. If the LCM is concentrated or collected during the work in sufficient quantities to be considered hazardous as defined in 40 CFR §261.2, the waste shall be further evaluated by the contractor performing the work in accordance with the appropriate testing methods to determine appropriate handling and disposal procedures, and disposed of in accordance with all applicable regulations.
- B. Lead painted concrete and masonry shall be disposed of in a licensed sanitary landfill permitted to accept such wastes. For recycling and disposal purposes, lead paint is defined as more than 0.7 milligrams per square centimeter of paint

surface per the WDNR document entitled "Concrete Recycling and Disposal Fact Sheet", WDNR Publication WA-605 2004.

- C. Lead painted metals free of other contaminants may be segregated and recycled per all applicable regulations.

END OF SECTION 02095

## FIGURES



# BUILDING LOCATION MAP

141 WEST WOOLCOCK STREET  
JEFFERSON, WISCONSIN

FIGURE

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