

**Appendix J-18 Abatement Plan for Removal of Hazardous
Materials, Men's Central Jail Project,
Pedestrian Bridge (MCJ to Twin Towers)**

Appendices

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**ABATEMENT PLAN FOR REMOVAL OF
HAZARDOUS MATERIALS**

Men's Central Jail Project
Pedestrian Bridge (MCJ to Twin Towers)
450 Bauchet Avenue
Los Angeles, California 90012

Prepared for:

Los Angeles County Department of Public Works
900 South Fremont Avenue, 5th Floor
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Attachment A: Site Map

PART 1 - GENERAL

1.1 PROJECT SITE

The Pedestrian Bridge (Site) is a single level bridge structure connecting the Men's Central Jail and Twin Towers facilities overcrossing Bauchet Avenue. The structure Building is of concrete/wood construction with interior drywall walls, floor tiles, drop ceiling panels and a flat roof constructed in the early 1990s

1.2 PROPOSED PROJECT

Based on conceptual plans the Site will be demolished and excavated to an undetermined depth and a new building will be constructed.

1.3 REMOVAL SCOPE OF WORK

The general intent of this abatement plan is to establish minimum requirement to be used by a licensed contractor or trained workers, of minimum requirements for handling hazardous materials which will be impacted by this project including removal, and disposal of identified, lead-based paint (LBP), and fluorescent light tubes containing mercury vapor.

If a specified minimum procedure described in this document cannot be utilized, a request shall be made in writing to Owner's Authorized Representative providing details of the problem encountered and recommended alternatives.

The awarded contractor will be required to adhere to all applicable regulatory requirements including but not limited to worker training, personal protection equipment and disposal of waste.. The awarded contractor will be required to provide a written work plan specifically addressing conditions specific to the Site including compliance with this specification.

Material quantities included in this document are provided as a best estimate for information only and shall not be used as a reliable quantity by any contractor for preparing removal bids. The contractor shall be solely responsible for assessing the type, extent, and quantity of material to be removed in each area of the project in preparing each project bid. The Contractor is responsible for assessing the type, extent, and quantity of material to be removed in each area of the project

By submitting a bid, the Abatement Contractor warrants its intent to conduct said work properly using qualified personnel employed by licensed contractors.

- A. Scope of work shall include all areas of work where hazardous materials have been identified, as outlined in the tables below.
- B. All removal and disposal of LBPs and coatings and subsequent waste disposal shall be performed by a state-licensed contractor, using CDPH-certified workers with at least one CDPH-certified Supervisor. Abatement contractor's workforce shall be supervised by experienced trained workers, knowledgeable and qualified in the techniques of lead abatement, handling and disposal of lead-containing and/or lead-contaminated materials, and the subsequent cleaning of contaminated areas.
- C. When exposure monitoring of a particular lead-related task indicates that the permissible exposure level is or will be exceeded, the contractor shall use CDPH-certified lead workers to complete the task.
- D. The removal of mercury-containing light tubes shall be completed by workers with HAZWOPER training, as outlined in 29 CFR 1910.120 and 8 CCR 5192.
- E. Contractor shall furnish all labor, materials, services, insurance specifically covering the handling and transportation of LBP, mercury- containing light ballast, and equipment which is specified, shown or reasonably implied for the removal, transport, and disposal of the hazardous materials identified in the following table.

1.3.1 SUMMARY OF LEAD-BASED PAINT

COMPONENT	LOCATION	SCOPE OF IMPACT	SPECS SECTION
Pipe Supports (on roof)	Exterior on roof	Paint stabilization	3.7.1

1.3.2 SUMMARY OF LIGHT TUBES WITH MERCURY

Mercury is present in small amounts in florescent light tubes. California State Law defines "significant quantities" as more than 15 tubes.

Prior to demolition of the buildings, the abatement contractor will be expected to segregate, package and properly dispose of approximately 100 mercury containing light tubes.

1.4 WORK TO BE PERFORMED BY OTHERS

- A. As per Project Specifications.

1.5 RESPONSIBILITIES OF OWNER

- A. The Owner may provide daily oversight and environmental monitoring surrounding the abatement/removal operations.

1.6 REQUIRED LICENSURE

- A. Contractor shall be licensed by the State of California, Contractors State License Board and hold all other licenses applicable to perform the removal scope of work.

1.7 PERMITS

- A. As required by local agencies for specific tasks (i.e., temporary power, etc.)

1.8 NOTIFICATIONS

- A. Contractor shall make all required written notifications to regulatory agencies including the following:
 - 0. Cal/OSHA, if necessary
 - 2. Cal/DPH, if necessary

1.9 INSURANCE REQUIREMENTS

- A. Provide As per Project Specifications.

1.10 BONDING REQUIREMENTS

- A. Provide As per Project Specifications.

1.11 PROJECT SCHEDULE

- A. Project Start Date: As specified by owner

Project Completion Date: As specified by owner

- B. All work shall be performed as per agreement between Contractor and Owner.

1.12 APPLICABLE REGULATIONS

- A. Contractor shall perform all work in compliance with current, applicable federal, state, and local regulations, standards and codes including County specifications and applicable governing regulations.
- B. Regulations, Standards, and Codes (General):
0. General applicability of federal, state, and local regulations, standards and codes governing hazardous materials abatement, demolition, transport, and disposal, except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable regulations, standards, and codes have the same force and effect and are made a part of the contract documents as if copied directly into the contract documents, or as if published copies are bound herewith.
- C. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable federal, state, and local regulations including County Specifications pertaining to work practices, transport, disposal, and protection of workers, visitors to the Site, and persons occupying areas adjacent to the Site.
1. The contractor is responsible for providing training, medical examinations and maintaining training/medical records of personnel as required by the applicable federal, state, and local regulations.
2. The Contractor shall hold the Owner and Project Environmental Consultant harmless for failure to comply with any applicable hazardous materials abatement, transport, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

1.13 SUBMITTALS

- A. Prior to commencement of work, Contractor shall submit to the Project Environmental Consultant (Owner's Representative) documentation that includes, without limitation, the following:
0. Copies of licenses and registrations required by Article 1.6 Required Licensure (include copies of subcontractors' licenses).
1. Copies of written notification to the following regulatory agencies:
- a. Cal/OSHA, if necessary
- b. Cal/DPH, if necessary
2. Documentation showing that the Contractor's employees, including foreman, supervisor, and any other company personnel or agents who may be exposed to airborne lead dust or who may be responsible for any aspects of lead abatement activities, have received training as required by 29 CFR 1926.62 and 8 CCR 1532.1.
4. Documentation from Physician (signed by an M.D.) showing that all employees or agents who may be exposed to airborne asbestos fibers in excess of background levels have received medical monitoring to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may

impact on the employee's ability to perform work activities.

5. Documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be conducted annually and in accordance with procedures as required by 29 CFR 1910.134 and 8 CCR 5144.
 6. Documentation showing HAZWOPER training, as outlined in 29 CFR 1910.120 and 8 CCR 5192 for the removal of mercury-containing light tubes.
- B. During abatement activities, Contractor shall maintain on-site records and submit to Project Environmental Consultant at the completion of the project documentation that includes, without limitation, the following:
1. Copies of the work area entry/exit log book.
 2. Copies of Safety Data Sheets (SDS) for solvents, encapsulants, wetting agents, replacement materials, and other substances brought by Contractor to the Project Site. SDSs shall be available the first day that subject materials/substances are present on the project Site.
 3. Results of all required Cal/OSHA compliance air monitoring. Results shall be available for review by Consultant and Owner within 24 hours the sampling.
 4. Copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property.
 5. Copies of daily logs indicating location(s) worked, type of materials removed, quantity of materials removed and number of personnel conducting the aforementioned activities.
 6. Copies of all transport manifests, trip tickets and disposal receipts for all asbestos waste materials removed from the site.

1.14 NOTICES

- A. Post in the clean room area of the worker decontamination enclosure, or an otherwise acceptable location at the Site, a list containing the names, and telephone numbers of Owner, Construction Manager, Abatement Contractor, and Project Environmental Consultant.
- B. Additional postings shall include:
 1. Visitor Entry and Exit Log
 2. Employee Daily Sign in Log
 3. Entry and Exit Procedures
 4. Emergency Procedures
 5. Copies of permits required in Article 1.6 of this document, and copies of notifications required in Article 1.8 of this document.
 6. As required by the Department of Labor

1.15 SITE USE AND SECURITY

- A. Confine operations at the Site to the areas permitted under the Contract. Portions of the Site beyond areas on which work is indicated are not to be disturbed.
- B. The work area shall be restricted only to authorized, trained and protected personnel, including Contractor, Contractor's employees, Owner's employees, Owner, Construction

Manager, Project Environmental Consultant, State and Local Inspectors.

- C. Entry into the work area by unauthorized individuals shall be reported immediately to the Project Environmental Consultant.
- D. Contractor shall be responsible for Project site security during abatement operations.

1.16 EMERGENCY PLANNING

- A. Emergency planning and procedures shall be developed by Contractor prior to abatement initiation.
- B. Emergency procedures shall be in written form and prominently posted. Contractor shall ensure that all persons entering the work area read these procedures and understand the Project site layout, location of emergency exits and emergency procedures.
- C. Emergency planning shall include considerations of fire, explosion, electrical hazards, slips, trips and falls, confined spaces, and heat related injury. Written procedures shall be developed and employee training in procedures shall be provided by Contractor.
- D. Employees shall be trained in evacuation procedures in the event of work place emergencies.
 - 1. For non-life threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the work place to obtain proper medical treatment.
 - 2. For life threatening injury or illness, worker decontamination shall take least priority. After measures to stabilize the injured worker, remove him from the work place and secure proper medical treatment.
 - 3. Telephone numbers of all emergency response personnel shall be prominently posted in the clean and equipment rooms.

1.17 FIRE PROTECTION

- A. All plastic, spray-on strippable coatings, and structural materials used in the asbestos abatement process shall be UL-approved and certified as fire retardant or noncombustible.
- B. Wood shall be pressure impregnated and certified as fire retardant.
- C. Safety Data Sheets (SDS) for fire retardant materials shall be made available upon request.
- D. All combustible rubbish and debris, including asbestos waste shall be properly packaged, labeled and stored in a District designated lockable storage facility at the end of each working day.

- E. A minimum of one (1) 4A/60BC dry-chemical extinguisher shall be maintained at each of the following locations:
 - 1. At each corner of the work area. Where no clear corners exist, four (4) extinguishers shall be placed around the exterior wall of the work area so that they are approximately 25 percent of the total distance apart.
 - a. Exception: Where total contained work area is less than 1,000 square feet, two (2) 4A/60BC extinguishers shall be provided. All extinguishers shall be clearly identified with red tape.
 - 2. Contractor shall ensure that on site personnel are aware of the location and proper use of all extinguishers and other fire/life safety equipment.
- F. All existing fire detection, alarm systems, connections and standpipes shall remain in place, active and unobstructed. Any alteration to this equipment must be approved by the Owner.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Generally, Contractor shall carefully adhere to the following:
 - 1. All plastic, spray-on strippable coatings and structural materials used shall be UL-certified as fire retardant or non-combustible.
 - 2. Fire-retardant polyethylene sheeting utilized for worker decontamination and construction/containment barriers shall be a minimum of six-mil in thickness.
 - 3. Disposal bags used to package hazardous waste shall be of six-mil polyethylene, pre-printed with labels as required by EPA regulation 40 CFR 61.152 (b) and 8 CCR 1529.
 - 4. Warning signs as required by Cal/OSHA shall be utilized.
- B. Removal and Encapsulation:
 - 1. Apply surfactant during removal work activities. The surfactant shall be 50/50 mixture of polyoxyethylene ether and polyoxyethylene ester, or equivalent, mixed in proportion of 1 fluid ounce to 5 gallons.
 - 2. Apply an encapsulating agent to the substrate surfaces from which asbestos-containing material has been stripped.

2.2 EQUIPMENT

- A. General:
 - 1. At a minimum, half-face air-purifying respirators with P-100 cartridges shall be utilized for the removal of all lead-based paint.
 - 2. Respirators shall be furnished to the abatement workers by Contractor. The respirators shall have been tested and approved by National Institute of Occupational Safety and Health (NIOSH) for use in asbestos-contaminated

atmospheres.

3. Full body disposable protective clothing, including head, body, and foot coverings shall be furnished to workers, and visitors by the abatement contractor. The clothing shall include adequate sizes to accommodate movement without tearing.
4. Additional safety equipment as supplied in accordance with 8 CCR 1514, (e.g. hard hats meeting the requirements of 8 CCR 1515, eye protection meeting the requirements of 8 CCR 1516, safety shoes meeting the requirements of 8 CCR 1517, hand protection meeting the requirements of 8 CCR 1520, hearing protection meeting the requirements of 8 CCR 1521 and body protection meeting the requirements of 8 CCR 1522), as necessary, shall be furnished to all workers and authorized visitors.

PART 3 - EXECUTION

3.1 CLEAN-UP PROCEDURES

- A. Remove and containerize all visible accumulations of lead-contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste within contained work areas.

Lead-waste wastes shall be packaged and label as required by 8 CCR 1532.1 and 22 CCR 66504.

All other hazardous wastes shall be containerized as appropriate and disposed of in a manner that satisfies the requirements for waste characterization and disposal in accordance with the requirements of Title 22 of the California Code of Regulations, Sections 66243, et seq., and Sections 25157.8, et al, of the California Health and Safety Code.

- B. After gross cleaning of the work area, HEPA-vacuum and wet clean all objects and surfaces in the work area are completed, remove all containerized waste from the work area.
- C. Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.
- D. Project Environmental Consultant and the abatement contractor representative will inspect the work area for visible residue. If any accumulation of residue is observed, a second settling period and cleaning cycle repeated at no additional cost to Owner.
- E. Following the satisfactory completion of clearance air monitoring or clearance wipe testing, the remaining barriers may be removed and prepared for proper disposal. A final visual inspection by Project Environmental Consultant and the abatement contractor representative will be performed. Unsatisfactory conditions may require additional cleaning and air monitoring/wipe sampling, at no additional cost to Owner.

3.2 WORKER DECONTAMINATION SYSTEMS

- A. Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit regulated work areas.
- B. Worker decontamination enclosure systems constructed at the Project site shall utilize six-mil, fire-retardant polyethylene sheeting, or other approved materials for privacy.
- C. Personnel Decontamination Units shall not be located inside the work area(s) unless specifically authorized by the Project Environmental Consultant.

- D. Alternate methods of providing Decontamination facilities may be submitted to the Project Environmental Consultant for approval. Do not proceed with any such method(s) without the written authorization.
- E. The worker decontamination enclosure system shall consist of at least a cleansing station in accordance with the requirements of 8 CCR 1527 and 8 CCR 1529, equipped with adequate water, towels and cleansing agents to accommodate the entire crew and visitors.

3.3 DISPOSAL PROCEDURES

- A. The abatement contractor will be responsible for segregating lead waste (LBP and LCP) into separate waste streams. The contractor will be required to collect a sufficient number of samples to adequately characterize the waste stream. Sample analysis will include at a minimum, Total Threshold Limit Concentration (TTLC), Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP).

The contractor shall develop and submit for review a waste sampling and management plan to the Owner and the Project Environmental Consultant.

- B. All hazardous wastes must be transported by a certified waste hauler and disposed off at a waste facility approved by the Owner.
- C. Obtain the EPA Hazardous Waste Generator Identification Number and State of California Hazardous Waste Tax Identification Number from the Owner for hazardous waste disposal.
- D. All hazardous waste manifests or non-hazardous material data forms shall be delivered to the owner. Record keeping format shall utilize a chain of custody form which includes the names and addresses of the Generator (Owner), Contractor, Waste Hauler, pickup site, disposal site, the estimated quantity of the asbestos waste and the type of containers used. The form shall be signed by the Generator, Contractor, Waste Hauler and the Disposal Site Operator, as the responsibility for the material changes hands.

3.4 REESTABLISHMENT OF THE WORK AREAS

3.4.1 VISUAL INSPECTION

Upon completion of the removal process, the Owner Representative and the abatement contractor will conduct a post-abatement visual inspection. If any material designated for removal, including loose debris, is observed, the Contractor will be required to re-clean that specific area.

3.4.2 ABATEMENT CLEARANCE CRITERIA

Passing of a thorough final visual inspection by a Project Consultant, and the abatement contractor.

3.5 ENVIRONMENTAL MONITORING

- A. Air monitoring may be carried out by the Project Environmental Consultant on behalf of the Owner to verify that the building beyond the contamination area and the outside environment remains uncontaminated.
- B. Area Air Monitoring: The Project Environmental Consultant will conduct in-progress air monitoring daily to determine area airborne contaminant concentrations within the confines of the work area.

3.6 OSHA PERSONNEL AIR MONITORING

Air monitoring required by Cal/OSHA is the responsibility of the contractor. The contractor is responsible for providing daily Cal/OSHA compliance monitoring as per 8 CCR 1529 for asbestos and CCR 1532.1 for lead.

- A. Employers must assess the amounts of lead breathed by workers on a regular basis for each trigger task as per 8 CCR 1532.1. This is usually done by employee breathing zone air sampling. Air sampling results are used to determine the protective measures needed as well as the type of respirator that must be worn for protection.
 - 1. **Level 1 trigger tasks** Any of the following with lead-containing coatings or materials: spray painting, manual demolition, manual scraping or sanding, use of heat gun, power tool cleaning with dust collection system. Minimum required respirator: half-mask respirator with N-100, R-100 or P-100 filters.
 - 2. **Level 2 trigger tasks** Any of the following with lead-containing coatings or materials: using lead-containing mortar, lead burning, rivet busting, power tool cleaning without dust collection system, clean-up activities using dry expendable abrasives, abrasive blasting enclosure movement or removal. Minimum required respirator: air-supplied hood or helmet, or loose fitting hood or helmet powered air purifying respirator with N-100, R-100 or P-100 filters.
 - 3. **Level 3 trigger tasks** Abrasive blasting, welding, cutting, or torch burning on structures where lead-containing coatings or materials are present. Minimum required respirator: half-mask supplied air respirator operated in a positive pressure mode.
- B. Monitoring shall be conducted by a qualified air professional experienced and knowledgeable about the methods of air monitoring and in accordance with 29 CFR 1926.1101, 8 CCR 1529 and 8 CCR 1532.1.
- C. Monitoring results and appropriate laboratory analysis work shall be posted **within forty-eight (48) hours of the monitoring work.**

3.7 REMOVAL WORK PROCEDURES

3.7.1 LEAD-BASED PAINT- PAINT STABILIZATION

Engineering Controls:

- 1. Install demarcation signage; drop floors, and critical barriers as necessary and a 2-stage worker decontamination facility with a wash station.

Min. Personal Protection:

- 1. Half-face air-purifying respirators equipped with HEPA-P100 filters. Disposable clothing (Tyvek [or equivalent] suits) and hand, foot, and eye protection is required. Perform the required CAL-OSHA worker exposure air monitoring.

Removal:

- 1. Remove and stabilize all damaged loose and flaky paint prior to demolition of the component. Apply a paint sealer to the stabilized painted areas.
- 2. The component may need to be cut into manageable sections prior to disposal. Remove all paint in the areas to be cut and 6 inches beyond the cut area (total of 12 inches). No torch cutting shall be used through painted surfaces.

Preparation/Transport:

1. Package the waste generated by the paint stabilization and separate the waste into waste streams. Conduct the required waste characterization for disposal. (Refer to Section 10 of this document).

Disposal:

1. Dispose of all lead waste in accordance with Federal, State, and Local regulations.

3.7.2. MERCURY LIGHT TUBES

Mercury is present in small amounts in florescent light tubes. California State Law defines "significant quantities" as more than 15 tubes.

Removed, package and properly dispose of mercury light tubes, approximately 100 units.

3.8 ADDITIONAL REGULATORY REQUIREMENTS

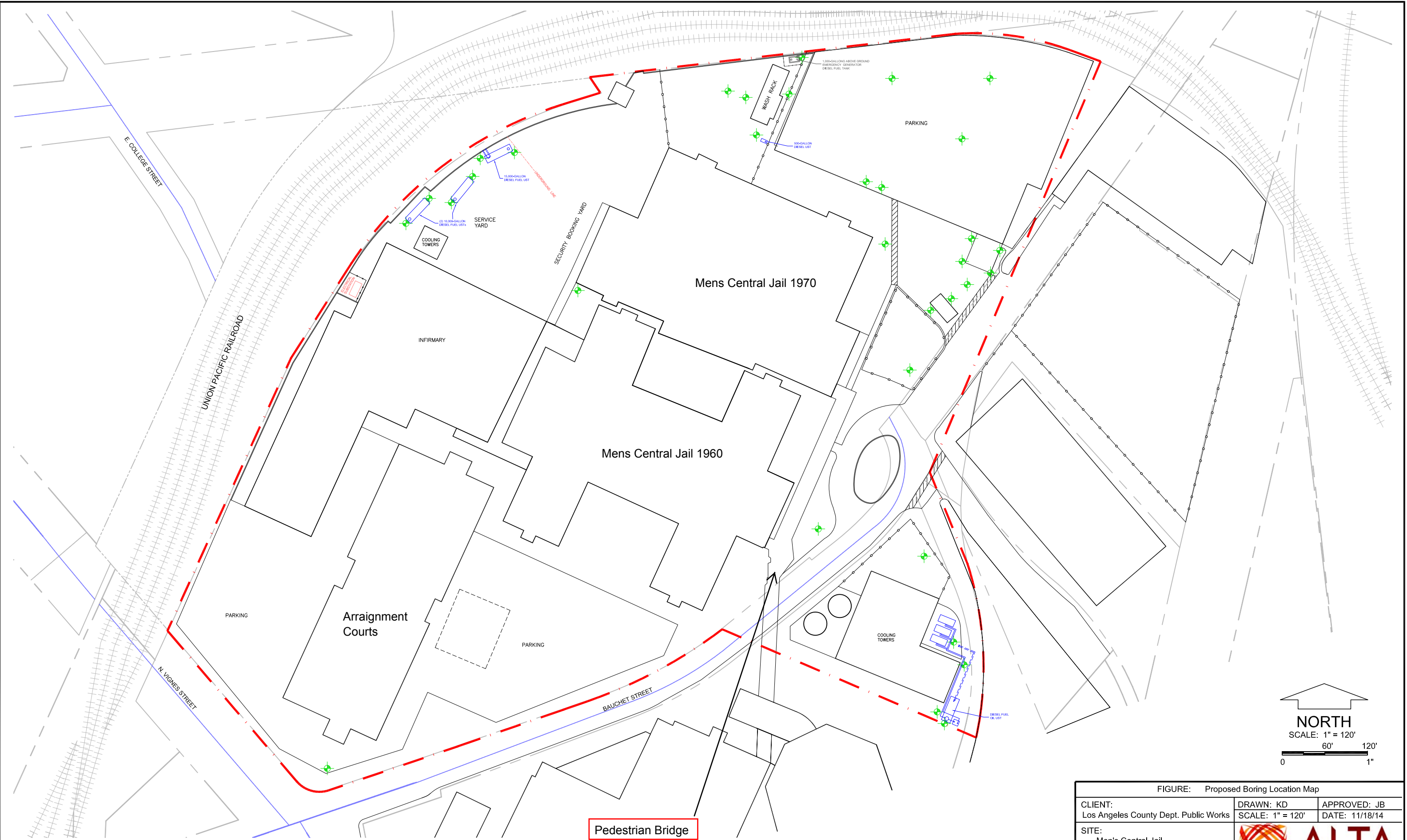
1. Procedures for impacting lead-containing paints (LCP) are not included in this abatement plan but remain subject to regulation. All construction work activities impacting lead-containing paints (LCP) (paints reported below 5,000 ppm) completed for this project, such as but not limited to demolition, removal, renovation etc. remain subject to Cal/OSHA worker exposure requirements (8 CCR 1532.1) including the use of respirators, protective clothing, training, air monitoring, waste disposal, etc. Further, it is the Contractors responsibility to ensure that his workers are adequately protected to potential lead exposure during the initial monitoring period. It is the responsibility of the contractor to fully comply with the requirements of the Cal/OSHA regulation. Cal/OSHA requirements are summarized below:
 - a. Employers must assess the concentration of lead breathed by workers on a regular basis for each trigger task as per Section 1532.1(d). This is usually done by employee breathing zone air sampling. Air sampling results are used to determine the protective measures needed as well as the type of respirator that must be worn for protection.
 - i. **Level 1 trigger tasks** Any of the following with lead-containing coatings or materials: spray painting, manual demolition, manual scraping or sanding, use of heat gun, power tool cleaning with dust collection system. Minimum required respirator: half-mask respirator with N-100, R-100 or P-100 filters.
 - ii. **Level 2 trigger tasks** Any of the following with lead-containing coatings or materials: using lead-containing mortar, lead burning, rivet busting, power tool cleaning without dust collection system, clean-up activities using dry expendable abrasives, abrasive blasting enclosure movement or removal. Minimum required respirator: air-supplied hood or helmet, or loose fitting hood or helmet powered air purifying respirator with N-100, R-100 or P-100 filters.
 - iii. **Level 3 trigger tasks** Abrasive blasting, welding, cutting, or torch burning on structures where lead-containing coatings or materials are present. Minimum required respirator: half-mask supplied air respirator operated in a positive pressure mode.

All lead waste shall be segregated into separate waste streams. The contractor will be required to collect a sufficient number of samples to adequately characterize the waste stream. Sample analysis will include at a minimum, Total Threshold Limit Concentration (TTLC), Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP). Refer to Section 3.3 for additional information.

End of Section

ATTACHMENT A

SITE MAP



LEGEND:
 Proposed Boring Location

NORTH
 SCALE: 1" = 120'
 0 60' 120' 1"

FIGURE: Proposed Boring Location Map		
CLIENT: Los Angeles County Dept. Public Works	DRAWN: KD SCALE: 1" = 120'	APPROVED: JB DATE: 11/18/14
SITE: Men's Central Jail Bauchet Street Los Angeles, California		 3777 Long Beach Blvd, Annex Bldg, Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenvirom.com
PROJ. NO.: LDPW-14-4301		

