September 28, 2015

This Addendum to the Invitation for Bids (IFB) serves to notify all interested bidders of clarifications and or changes to IFB No. B15003 General Contractor for Firebaugh Multifamily Apartments, and becomes part of this IFB. Contractors are required to acknowledge receipt of this addendum in their proposal. If not acknowledged, Contractor's proposal may be considered "non-responsive."

- **The Project Manual was not previously included with the Bid Documents and is attached to this addendum (Attachment 1.0).**
- **Sheet A1.02: The landscape strip along 13th Street has been removed and replaced with concrete to make it a full-width sidewalk. Also, the angled parking striping along 13th Street has been removed (City Engineer Requirements). See Attachment 2.0.**
- **Sheets L2.1 & L3.1: Modified to remove the landscape strip along 13th Street and relocate the street trees previously in that landscape strip to be placed behind the property line with the associated irrigation lines and fittings removed or relocated as required (Attachment 2.0).**
- **The Sign-In Sheet from the Pre-Bid Conference and Site Inspection of September 24, 2015 has been included in this addendum (Attachment 3.0).**
- **The Section 3 Business Bid Preference Explanation has been included in this addendum (Attachment 4.0).**
- **Please see responses to the following Requests for Information, Clarifications, and/or Questions pertaining to this IFB as of September 28, 2015.**
    - **Q1: We have the soils report and the CF-1R & Green Point Rated lists, but still need the asbestos and lead-based paint reports. These will be needed for abatement and clearance testing prior to demolition. Please provide.**
    - *A1: These reports have been included in this addendum as Attachment 5.0.*
    - **Q2: Your office has issued Addendums 1, 2, and 3. RL Davidson's office just issued an addendum also labeled #2. Shouldn't that be #4? Please advise.**
    - *A2: RL Davidson has issued two addenda made available at Fresno Reprographics. The first detailed City of Firebaugh Plan Set Edits, and the second made available the Project Manual referenced on Sheet A01.1 of the drawings. The City of Firebaugh Plan edits have been officially incorporated as part of Addendum #2 issued on our previously noted*

eProcurement system (http://nahro.economicengine.com). The Project Manual has been officially incorporated as part of this Addendum (#4) and also issued on the noted eProcurement System. All bid documents should be accessed on the noted eProcurement system, while technical plans and drawings can be accessed at the Fresno Reprographics plan room.

All other requirements of this IFB remain unchanged. Thank you for your interest in doing business with the Agency and we look forward to receiving a bid from your firm.

ADDENDUM #2

Project: Firebaugh Gateway Seniors Apartments

1238 P Street

Firebaugh, CA

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and previous Addenda as noted below. Acknowledge receipt of this Addendum in the space provided below by signing and returning to Architect via email to jon@rldavidson.com. Failure to do so may subject Bidder to disqualification.

This Addendum consists of 1 pages and all attachments noted herein.

Contractor's Acknowledgement of Receipt of Addendum

Name/Company _____ Signature _____ Date: _____

I. MODIFICATIONS TO PREVIOUS ADDENDA:
None

II. MODIFICATIONS TO PROJECT MANUAL:
The manual was not previously included with the Bid Documents and is attached to the addendum.

III. MODIFICATIONS TO DRAWINGS

ARCHITECTURAL DRAWINGS:
None

STRUCTURAL DRAWINGS:
None

PLUMBING DRAWINGS:
None

MECHANICAL DRAWINGS:
None

ELECTRICAL DRAWINGS:
None

CIVIL DRAWINGS:
None

IV. MISCELLANEOUS CLARIFICATIONS
None

Firebaugh Gateway Seniors Apartments

PROJECT MANUAL 1210

R.L. Davidson, Inc.
ARCHITECTS
EST. 1987

7600 North Ingram, #232, Fresno, CA 93711 • 559.435.3303 • www.rldavidson.com

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SECTION 011000 -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.

B. See Division 01 Section "Multiple Contract Summary" for division of responsibilities for the Work.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. Project Identification: Serramonte Ford
   1. Project Location: Colma, California

B. Owner: BWVT Motors, Inc.
   1. Owner's Representative: Bob Carli

C. Architect: RL Davidson, Inc. 7600 N. Ingram Ave., Suite 232, Fresno, CA 93710

D. The Work consists of the following:
   1. The Work includes all construction and off-site construction.

1.3 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. Concurrent Work: Owner may award separate contract(s) for additional construction operations at Project site. Those operations may be conducted simultaneously with work under this Contract.

1.4 USE OF PREMISES

A. General: Contractor shall have full use of premises for construction operations.

B. It is of paramount importance that the work of this Contract does not interfere in any way with the normal operation of the existing utility services and no interruption of the utility services in the existing building can be allowed. Coordinate all work affecting service in the existing building with the Architect and the Owner’s Representative.

C. Use of Site: Limit use of premises to work in areas approved in advance by Owner. Do not disturb portions of Project site beyond areas in which the Work is approved by Owner.

   1. Limits: Confine constructions operations to areas approved in advance by Owner in general accordance with the following: a. Limit site disturbance, including earthwork and clearing of vegetation, to 40 feet beyond building perimeter; 10 feet beyond surface walkways, patios, surface parking, and utilities less than 12 inches in diameter; 15 feet beyond primary roadway curbs and main utility branch trenches; and 25 feet beyond constructed areas with permeable surfaces (such as pervious paving areas, stormwater detention facilities, and playing fields) that require additional staging areas in order to limit compaction in the constructed area.

2. Driveways and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
    a. Schedule deliveries to minimize use of driveways and entrances.
    b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

1.5 OWNER'S OCCUPANCY REQUIREMENTS

A. Owner Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed areas of building, before Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and partial occupancy shall not constitute acceptance of the total Work.

1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied before Owner occupancy.
2. Obtain a Certificate of Occupancy from authorities having jurisdiction before Owner occupancy.
3. Before partial Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of building.
4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of building.

1.6 WORK RESTRICTIONS

A. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor air intakes.

1.7 SPECIFICATION FORMATS AND CONVENTIONS

A. Specification Format: The Specifications are organized into Divisions and Sections using the 31 division format and CSI/CSC's "MasterFormat" numbering system.

1. Division 01: Sections in Division 01 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 011000

SECTION 012500 -SUBSTITUTION PROCEDURES

PART 1 -GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for substitutions.

B. Related Requirements:

1. Division 01 Section "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.2 DEFINITIONS

A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

1.3 ACTION SUBMITTALS

A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

1. Substitution Request Form: Use CSI Form 13.1A.

2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:

a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
e. Samples, where applicable or requested.
f. Certificates and qualification data, where applicable or requested.
g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
k. Cost information, including a proposal of change, if any, in the Contract Sum.
l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within seven days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

   a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
   b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.4 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

PART 2 -PRODUCTS

2.1 SUBSTITUTIONS

A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.

1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied:

   a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
   b. Requested substitution will not adversely affect Contractor's construction schedule.
   c. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

B. Substitutions for Convenience: Architect will consider requests for substitution if received within 60 days after commencement of the Work.

1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied:

   a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
   b. Requested substitution does not require extensive revisions to the Contract Documents.
   c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
   d. Requested substitution will not adversely affect Contractor's construction schedule.
   e. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 3 -EXECUTION (Not Used)

END OF SECTION 012500

SUBSTITUTION REQUEST
(After the Bidding/Negotiating Phase)

Project: _____ Substitution Request Number: _____

_____ From: _____

To: _____ Date: _____

_____ A/E Project Number: _____

Re: _____ Contract For: _____

Specification Title: _____ Description: _____

Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: _____

Manufacturer: _____ Address: _____ Phone: _____

Trade Name _____ Model: _____

Installer: _____ Address: _____ Phone: _____

History: ☐ New product ☐ 1-4 years old ☐ 5-10 years old ☐ More than 10 years old

☐ Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: _____

_____

Similar Installation:

Project: _____ Architect: _____

Address: _____ Owner: _____

_____ Date Installed: _____

Proposed substitution affects other parts of Work: ☐ No ☐ Yes; explain _____

_____

Savings to Owner for accepting substitution: _____ ($ _____).

Proposed substitution changes Contract Time: ☐ No ☐ Yes Deduct _____

Supporting Data Attached: ☐Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

Form Version: January 2013
CSI Form 13.1A

SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase — Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: _____

Signed by: _____

Firm: _____

Address: _____

_____

Telephone: _____

Attachments:

A/E's REVIEW AND RECOMMENDATION

☐ Approve Substitution - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Approve Substitution as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Reject Substitution - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

OWNER'S REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. Prepare Change Order.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. Prepare Change Order.
☐ Substitution rejected - Use specified materials.

Signed by: _____ Date: _____

Additional Comments: ☐Contractor ☐Subcontractor ☐Supplier ☐Manufacturer ☐A/E

SECTION 013000 - ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.1 PROJECT MANAGEMENT AND COORDINATION

A. Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work.

B. Requests for Information (RFIs): On discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI. Use forms acceptable to Architect and Owner.

C. Schedule and conduct progress meetings at Project site at regular intervals. Notify Owner and Architect of meeting dates and times. Require attendance of each subcontractor or other entity concerned with current progress or involved in planning, coordination, or performance of future activities.

1. Record minutes and distribute to everyone concerned, including Owner and Architect.

1.2 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

A. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.

1. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
2. Submit three copies of each action submittal. Architect will return two copies.
3. Submit two copies of each informational submittal. Architect will not return copies.
4. Architect will return submittals, without review, received from sources other than Contractor.

B. Place a permanent label or title block on each submittal for identification. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect. Include the following information on the label:

Project name.
Date.
Name and address of Contractor.
Name and address of subcontractor or supplier.
Number and title of appropriate Specification Section.

C. Identify deviations from the Contract Documents on submittals.

D. Contractor's Construction Schedule Submittal Procedure: Submit two copies of schedule within 7 days after date established for Commencement of the Work.

PART 2 PRODUCTS

2.1 ACTION SUBMITTALS

A. Product Data: Mark each copy to show applicable products and options. Include the following:

1. Manufacturer's written recommendations, product specifications, and installation instructions.
2. Wiring diagrams showing factory-installed wiring.
3. Printed performance curves and operational range diagrams.
4. Testing by recognized testing agency.
5. Compliance with specified standards and requirements.

B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data. Submit on sheets at least 8-1/2 by 11 inches but no larger than 30 by 42 inches. Include the following:

1. Dimensions and identification of products.
2. Fabrication and installation drawings and roughing-in and setting diagrams.
3. Wiring diagrams showing field-installed wiring.
4. Notation of coordination requirements.
5. Notation of dimensions established by field measurement.

C. Samples: Submit Samples for review of kind, color, pattern, and texture and for a comparison of these characteristics between submittal and actual component as delivered and installed. Include name of manufacturer and product name on label.

1. If variation is inherent in material or product, submit at least 3 sets of paired units that show variations.

2.2 INFORMATIONAL SUBMITTALS

A. Qualification Data: Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

B. Product Certificates: Prepare written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

2.3 DELEGATED DESIGN SERVICES

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.

B. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit 3 copies of a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

2.4 CONTRACTOR'S CONSTRUCTION SCHEDULE

A. Gantt-Chart Schedule: Submit a comprehensive, fully developed, horizontal Gantt-chart-type schedule within 30 days of date established for the Notice to Proceed.

B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line.

PART 3 EXECUTION

3.1 SUBMITTAL REVIEW

A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

B. Architect will review each action submittal, make marks to indicate corrections or modifications required, will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.

C. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

3.2 CONTRACTOR'S CONSTRUCTION SCHEDULE

A. Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.

1. As the Work progresses, indicate Actual Completion percentage for each activity.

B. Distribute copies of approved schedule to Owner, Architect, subcontractors, testing and inspecting agencies, and parties identified by Contractor with a need-to-know schedule responsibility. When revisions are made, distribute updated schedules to the same parties.

END OF SECTION 013000

SECTION 013300 -SUBMITTAL PROCEDURES

PART 1 -GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

B. See Division 01 Section "Construction Progress Documentation" for submitting schedules and reports, including Contractor's Construction Schedule.

C. See Division 01 Section "Quality Requirements" for submitting test and inspection reports and for mockup requirements.

D. See Division 01 Section "Closeout Procedures" for submitting warranties.

E. See Division 01 Section "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.

F. See Division 01 Section "Operation and Maintenance Data" for submitting operation and maintenance manuals.

G. See Division 01 Section "Demonstration and Training" for submitting videotapes of demonstration of equipment and training of Owner's personnel.

1.2 DEFINITIONS

A. Action Submittals: Written and graphic information that requires Architect's responsive action.

B. Informational Submittals: Written information that does not require Architect's responsive action. Submittals may be rejected for not complying with requirements.

1.3 SUBMITTAL PROCEDURES

A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.

2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.

    a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

B. Submittals Schedule: Comply with requirements in Division 01 Section "Construction Progress Documentation" for list of submittals and time requirements for scheduled performance of related construction activities.

C. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
3. Resubmittal Review: Allow 15 days for review of each resubmittal.

D. Identification: Place a permanent label or title block on each submittal for identification.

1. Indicate name of firm or entity that prepared each submittal on label or title block.

2. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect.

3. Include the following information on label for processing and recording action taken:
   a. Project name.
   b. Date.
   c. Name and address of Architect.
   d. Name and address of Contractor.
   e. Name and address of subcontractor.
   f. Name and address of supplier.
   g. Name of manufacturer.
   h. Submittal number or other unique identifier, including revision identifier:
      1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
   i. Number and title of appropriate Specification Section.
   j. Drawing number and detail references, as appropriate.
   k. Location(s) where product is to be installed, as appropriate.
   l. Other necessary identification.

E. Deviations: Highlight, encircle, or otherwise specifically identify deviations from the Contract Documents on submittals.

F. Additional Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.

1. Additional copies submitted for maintenance manuals will not be marked with action taken and will be returned.

G. Transmittal: All submittals shall be submitted electronically whenever possible. Package each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will return submittals, without review, received from sources other than Contractor.

H. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.

1. Note date and content of previous submittal.
2. Note date and content of revision in label or title block and clearly indicate extent of revision.

I. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

PART 2 -PRODUCTS

ACTION SUBMITTALS

A. General: Prepare and submit Action Submittals required by individual Specification Sections.

B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

1. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, not as Product Data.

2. Mark each copy of each submittal to show which products and options are applicable.

3. Include the following information, as applicable:

a. Manufacturer's written recommendations.
b. Manufacturer's product specifications.
c. Manufacturer's installation instructions.
d. Manufacturer's catalog cuts.
e. Wiring diagrams showing factory-installed wiring.
f. Printed performance curves.
g. Operational range diagrams.
h. Compliance with specified referenced standards.
i. Testing by recognized testing agency.

4. Number of Copies: Submit three copies of Product Data, unless otherwise indicated. Architect will return two copies. Mark up and retain one returned copy as a Project Record Document.

C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
a. Dimensions.
b. Identification of products.
c. Fabrication and installation drawings.
d. Roughing-in and setting diagrams.
e. Wiring diagrams showing field-installed wiring, including power, signal, and control wiring.
f. Shopwork manufacturing instructions.
g. Templates and patterns.
h. Schedules.
i. Notation of coordination requirements.
j. Notation of dimensions established by field measurement.
k. Relationship to adjoining construction clearly indicated.
l. Seal and signature of professional engineer if specified.
m. Wiring Diagrams: Differentiate between manufacturer-installed and field-installed wiring.

1. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches but no larger than 30 by 40 inches.
2. Number of Copies: Submit four opaque (bond) copies of each submittal. Architect will return one copy.

D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
2. Identification: Attach label on unexposed side of Samples that includes the following:
a. Generic description of Sample.
b. Product name and name of manufacturer.
c. Sample source.
d. Number and title of appropriate Specification Section.

3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.

4. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.

   a. Number of Samples: Submit two full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.

5. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

   a. Number of Samples: Submit three sets of Samples. Architect will retain one sample set; remainder will be returned.

INFORMATIONAL SUBMITTALS

A. General: Prepare and submit Informational Submittals required by other Specification Sections.
   1. Number of Copies: Submit two copies of each submittal, unless otherwise indicated. Architect will not return copies.
   2. Certificates and Certifications: Provide a notarized statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
   3. Test and Inspection Reports: Comply with requirements specified in Division 01 Section "Quality Requirements."

B. Coordination Drawings: Comply with requirements specified in Division 01 Section "Project Management and Coordination."

C. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

D. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification (WPS) and Procedure Qualification Record (PQR) on AWS forms. Include names of firms and personnel certified.

E. Installer Certificates: Prepare written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.

F. Manufacturer Certificates: Prepare written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

G. Product Certificates: Prepare written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

H. Material Certificates: Prepare written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.

I. Material Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.

J. Product Test Reports: Prepare written reports indicating current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

K. Research/Evaluation Reports: Prepare written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project.

L. Preconstruction Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.

M. Compatibility Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.

N. Field Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

O. Maintenance Data: Prepare written and graphic instructions and procedures for operation and normal maintenance of products and equipment. Comply with requirements specified in Division 01 Section "Operation and Maintenance Data."

P. Design Data: Prepare written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

Q. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer.

R. Manufacturer's Field Reports: Prepare written information documenting factory-authorized service representative's tests and inspections. Include the following, as applicable:
   1. Statement on condition of substrates and their acceptability for installation of product.
   2. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
   3. Results of operational and other tests and a statement of whether observed performance complies with requirements.

S. Insurance Certificates and Bonds: Prepare written information indicating current status of insurance or bonding coverage. Include name of entity covered by insurance or bond, limits of coverage, amounts of deductibles, if any, and term of the coverage.

T. Material Safety Data Sheets (MSDSs): Submit information directly to Owner; do not submit to Architect.
   1. Architect will not review submittals that include MSDSs and will return them for resubmittal.

DELEGATED DESIGN

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

   1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.

B. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit three copies of a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 -EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.
1. Action Submittals: Architect will review each submittal, make marks to indicate corrections or modifications required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken.

B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

C. Partial submittals are not acceptable, will be considered nonresponsive, and will be returned without review.

D. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

END OF SECTION 013300

SECTION 014000 -QUALITY REQUIREMENTS

PART 1 -GENERAL

1.1. SUMMARY

A. This Section includes administrative and procedural requirements for quality assurance and quality control.

B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.

C. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.

D. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

E. See Divisions 02 through 49 Sections for specific test and inspection requirements.

1.2 DEFINITIONS

A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.

C. Mockups: Full-size, physical assemblies that are constructed on-site. Mockups are used to verify selections made under sample submittals, to demonstrate aesthetic effects and, where indicated, qualities of materials and execution, and to review construction, coordination, testing, or operation; they are not Samples. Approved mockups establish the standard by which the Work will be judged.

D. Laboratory Mockups: Full-size, physical assemblies that are constructed at testing facility to verify performance characteristics.

E. Preconstruction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.

F. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with industry standards.

G. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.

H. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed work.

I. Testing Agency: An entity engaged to perform specific tests, inspections or both. Testing laboratory shall mean the same as testing agency.

J. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.

K. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.

L. Using a term such as "carpentry" does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to tradespeople of the corresponding generic name.

M. Experienced: When used with an entity, "experienced" means having successfully completed a minimum of five previous projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.3 CONFLICTING REQUIREMENTS

A. General: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Architect for a decision before proceeding.

B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.4 SUBMITTALS

A. Qualification Data: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

B. Reports: Prepare and submit certified written reports that include the following:

1. Date of issue.
2. Project title and number.
3. Name, address, and telephone number of testing agency.
4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

C. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.5 QUALITY ASSURANCE

A. General: Qualifications paragraphs in this Article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.

B. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.

C. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

D. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product, that are similar to those indicated for this Project in material, design, and extent.

F. Specialists: Certain sections of the Specifications require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.

1. Requirement for specialists shall not supersede building codes and regulations governing the Work.

G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 548; and with additional qualifications specified in individual Sections; and where required by authorities having jurisdiction, that is acceptable to authorities.
   1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
   2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.

H. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

I. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:
   1. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
   2. Notify Architect fourteen days in advance of dates and times when mockups will be constructed.
   3. Demonstrate the proposed range of aesthetic effects and workmanship.
   4. Obtain Architect's approval of mockups before starting work, fabrication, or construction.
   5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
   6. Demolish and remove mockups when directed, unless otherwise indicated.

J. Laboratory Mockups: Comply with requirements of preconstruction testing and those specified in individual Sections in Divisions 02 through 49.

1.6 QUALITY CONTROL

A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.

1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.

2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor and the Contract Sum will be adjusted by Change Order.

B. Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.

1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.

a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
b. Notify testing agencies at least 48 hours in advance of time when Work that requires testing or inspecting will be performed.
c. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
d. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
e. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

C. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Division 01 Section "Submittal Procedures."

D. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.

E. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
6. Do not perform any duties of Contractor.

F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.

4. Facilities for storage and field curing of test samples.
5. Delivery of samples to testing agencies.
6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
7. Security and protection for samples and for testing and inspecting equipment at Project site.

G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.7 SPECIAL TESTS AND INSPECTIONS

A. Special Tests and Inspections: Owner will engage a qualified testing agency or special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, and as follows:

B. Special Tests and Inspections: Conducted by a qualified testing agency or special inspector as required by authorities having jurisdiction, as indicated in individual Specification Sections, and as follows:
1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
2. Notifying Architect and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect with copy to Contractor and to authorities having jurisdiction.
4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
6. Retesting and reinspecting corrected work.

PART 2 -PRODUCTS (Not Used)

PART 3 -EXECUTION

3.1 REPAIR AND PROTECTION

A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
1. Provide materials and comply with installation requirements specified in other Specification Sections. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
2. Comply with the Contract Document requirements for Division 01 Section "Cutting and Patching."

B. Protect construction exposed by or for quality-control service activities.

C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

SECTION 014200 - REFERENCES

PART 1 -GENERAL

1.1 DEFINITIONS

A. General: Basic Contract definitions are included in the Conditions of the Contract.

B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.

C. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."

D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."

E. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.

F. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.

G. "Install": Operations at Project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.

H. "Provide": Furnish and install, complete and ready for the intended use.

I. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

1.2 INDUSTRY STANDARDS

A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.

C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
   1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

D. Abbreviations and Acronyms for Standards and Regulations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the organizations responsible for the standards and regulations in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

ADAAG Americans with Disabilities Act (ADA) Architectural Barriers Act (ABA)

CFR Code of Federal Regulations

DOD Department of Defense Military Specifications and Standards

DSCC Defense Supply Center Columbus (See FS)

FED-STD Federal Standard (See FS)

FS Federal Specification

FTMS Federal Test Method Standard (See FS)

MIL (See MILSPEC)

MIL-STD (See MILSPEC)

MILSPEC Military Specification and Standards

UFAS Uniform Federal Accessibility Standards

ABBREVIATIONS AND ACRONYMS

A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Thomson Gale's "Encyclopedia of Associations" or in Columbia Books' "National Trade & Professional Associations of the U.S."

B. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-todate as of the date of the Contract Documents.

AA Aluminum Association, Inc.

(The) AAADM American Association of Automatic Door Manufacturers

AABC Associated Air Balance Council

AAMA American Architectural Manufacturers Association

ACI ACI International (American Concrete Institute)

ACPA American Concrete Pipe Association

AEIC Association of Edison Illuminating Companies, Inc.

(The) AF&PA American Forest & Paper Association

AGA American Gas Association

AGC Associated General Contractors of America

(The) AHA American Hardboard Association (Now part of CPA)

AHAM Association of Home Appliance Manufacturers

AI Asphalt Institute AIA American Institute of Architects

(The) AISC American Institute of Steel Construction

AISI American Iron and Steel Institute

AITC American Institute of Timber Construction

ALCA Associated Landscape Contractors of America (Now PLANET -Professional Landcare Network)

ALSC American Lumber Standard Committee, Incorporated

AMCA Air Movement and Control Association International, Inc.

ANSI American National Standards Institute

AOSA Association of Official Seed Analysts, Inc.

APA APA -The Engineered Wood Association

APA Architectural Precast Association

API American Petroleum Institute

ARI Air-Conditioning & Refrigeration Institute

ARMA Asphalt Roofing Manufacturers Association

ASCE American Society of Civil Engineers

ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers

ASME ASME International

ASSE American Society of Sanitary Engineering

ASTM ASTM International (American Society for Testing and Materials International)

AWCI AWCI International (Association of the Wall and Ceiling Industry International)

AWCMA American Window Covering Manufacturers Association (Now WCSC)

AWI Architectural Woodwork Institute

AWPA American Wood-Preservers' Association

AWS American Welding Society

AWWA American Water Works Association

BHMA Builders Hardware Manufacturers Association

BIA Brick Industry Association (The)

BICSI BICSI

BIFMA BIFMA International (Business and Institutional Furniture Manufacturer's Association International)

BISSC Baking Industry Sanitation Standards Committee

CCC Carpet Cushion Council

CDA Copper Development Association

CEA Canadian Electricity Association

CFFA Chemical Fabrics & Film Association, Inc.

CGA Compressed Gas Association

CIMA Cellulose Insulation Manufacturers Association

CISCA Ceilings & Interior Systems Construction Association

CISPI Cast Iron Soil Pipe Institute

CLFMI Chain Link Fence Manufacturers Institute

CPA Composite Panel Association

CPPA Corrugated Polyethylene Pipe Association

CRI Carpet & Rug Institute (The)

CRSI Concrete Reinforcing Steel Institute

CSA CSA International (Formerly: IAS -International Approval Services)

CSI Cast Stone Institute

CSI Construction Specifications Institute (The)

CSSB Cedar Shake & Shingle Bureau

CTI Cooling Technology Institute (Formerly: Cooling Tower Institute)

DHI Door and Hardware Institute

EIA Electronic Industries Alliance

EIMA EIFS Industry Members Association

EJCDC Engineers Joint Contract Documents Committee

EJMA Expansion Joint Manufacturers Association, Inc.

ESD ESD Association

FMG FM Global (Formerly: FM -Factory Mutual System)

FMRC Factory Mutual Research (Now FMG)

FRSA Florida Roofing, Sheet Metal & Air Conditioning Contractors Association, Inc.

FSA Fluid Sealing Association

FSC Forest Stewardship Council

GA Gypsum Association

GANA Glass Association of North America

GRI (Now GSI)

GS Green Seal

GSI Geosynthetic Institute

HI Hydraulic Institute

HI Hydronics Institute

HMMA Hollow Metal Manufacturers Association (Part of NAAMM)

HPVA Hardwood Plywood & Veneer Association

HPW H. P. White Laboratory, Inc.

IAS International Approval Services (Now CSA International)

IBF International Badminton Federation

ICEA Insulated Cable Engineers Association, Inc.

ICRI International Concrete Repair Institute, Inc.

IEC International Electrotechnical Commission

IEEE Institute of Electrical and Electronics Engineers, Inc.

(The) IESNA Illuminating Engineering Society of North America

IEST Institute of Environmental Sciences and Technology

IGCC Insulating Glass Certification Council IGMA Insulating Glass Manufacturers Alliance

ILI Indiana Limestone Institute of America, Inc.

ISO International Organization for Standardization

ISSFA International Solid Surface Fabricators Association

ITS Intertek

ITU International Telecommunication Union

KCMA Kitchen Cabinet Manufacturers Association

LMA Laminating Materials Association (Now part of CPA)

LPI Lightning Protection Institute

MBMA Metal Building Manufacturers Association

MFMA Maple Flooring Manufacturers Association, Inc.

MFMA Metal Framing Manufacturers Association

MH Material Handling (Now MHIA)

MHIA Material Handling Industry of America

MIA Marble Institute of America

MPI Master Painters Institute

MSS Manufacturers Standardization Society of The Valve and Fittings Industry Inc.

NAAMM National Association of Architectural Metal Manufacturers

NACE NACE International (National Association of Corrosion Engineers International)

NADCA National Air Duct Cleaners Association

NAGWS National Association for Girls and Women in Sport

NAIMA North American Insulation Manufacturers Association

NBGQA National Building Granite Quarries Association, Inc.

TPI Truss Plate Institute, Inc.

TPI Turfgrass Producers International

TRI Tile Roofing Institute (Formerly: RTI -Roof Tile Institute)

UL Underwriters Laboratories Inc.

UNI Uni-Bell PVC Pipe Association

USGBC U.S. Green Building Council

USITT United States Institute for Theatre Technology, Inc.

WASTEC Waste Equipment Technology Association

WCLIB West Coast Lumber Inspection Bureau

WCSC Window Covering Safety Council

WDMA Window & Door Manufacturers Association

WI Woodwork Institute

WMMPA Wood Moulding & Millwork Producers Association

WSRCA Western States Roofing Contractors Association

WWPA Western Wood Products Association

C. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-todate as of the date of the Contract Documents.

BOCA BOCA International, Inc. (See ICC)

IAPMO International Association of Plumbing and Mechanical Officials

ICBO International Conference of Building Officials (See ICC)

ICC International Code Council

D. Federal Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

E. State Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-todate as of the date of the Contract Documents.

CBHF State of California, Department of Consumer Affairs Bureau of Home Furnishings and Thermal Insulation

PART 2 -PRODUCTS (Not Used)

PART 3 -EXECUTION (Not Used)

END OF SECTION 014200

SECTION 015000 -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 01 Section "Execution" for progress cleaning requirements.

C. See Divisions 02 through 49 Sections for temporary heat, ventilation, and humidity requirements for products in those Sections.

1.2 DEFINITIONS

A. Permanent Enclosure: As determined by Architect, permanent or temporary roofing is complete, insulated, and weather tight; exterior walls are insulated and weather tight; and all openings are closed with permanent construction or substantial temporary closures.

1.3 USE CHARGES

A. General: Cost or use charges for temporary facilities shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.

B. Water Service: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

C. Electric Power Service: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

1.4 SUBMITTALS

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

1.5 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.

B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.6 PROJECT CONDITIONS

A. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 -PRODUCTS

2.1 MATERIALS

A. Chain-Link Fencing: Minimum 2-inch, 0.148-inch-thick, galvanized steel, chain-link fabric fencing; minimum 6 feet high with galvanized steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8inch-OD corner and pull posts, with galvanized barbed-wire top strand.

B. Portable Chain-Link Fencing: Minimum 2-inch, 9-gage, galvanized steel, chain-link fabric fencing; minimum 6 feet high with galvanized steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails. Provide concrete bases for supporting posts.

C. Lumber and Plywood: Comply with requirements in Division 06 Section "Rough Carpentry."

D. Gypsum Board: Minimum 1/2 inch thick by 48 inches wide by maximum available lengths; regular-type panels with tapered edges. Comply with ASTM C 36/C 36M.

E. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

A. Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.

2.3 Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

2.4 EQUIPMENT

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

B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
   1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
   2. Heating Units: Listed and labeled for type of fuel being consumed, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
   3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return air grille in system and remove at end of construction.

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.
    1. Locate facilities to limit site disturbance as specified in Division 01 Section "Summary."

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. General: Install temporary service or connect to existing service.
    1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.

B. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

C. Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.

D. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.

E. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
    1. Connect temporary service to Owner's existing power source, as directed by Owner.

F. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
    1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

G. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install one telephone line(s) for each field office.
    1. Provide additional telephone lines for the following:
        a. Provide a dedicated telephone line for each facsimile machine and computer in each field office.
    2. At each telephone, post a list of important telephone numbers including police and fire departments, Contractor's home office, Architect's office, Owner's office and Principal subcontractors' field and home offices.
    3. Provide superintendent with cellular telephone or portable two-way radio for use when away from field office.

H. Electronic Communication Service: Provide temporary electronic communication service, including electronic mail in field office.

3.3 SUPPORT FACILITIES INSTALLATION

A. General: Comply with the following:
   1. Provide incombustible construction for offices, shops, and sheds located within construction area or within 30 feet of building lines. Comply with NFPA 241.
   2. Maintain support facilities until near Substantial Completion. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

B. 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.

C. Project Identification and Temporary Signs: Provide Project identification and other signs. Install signs where indicated to inform public and individuals seeking entrance to Project. Unauthorized signs are not permitted.
   1. Provide temporary, directional signs for construction personnel and visitors.
   2. Maintain and touchup signs so they are legible at all times.

D. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with Division 01 Section "Execution" for progress cleaning requirements.

E. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
   1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction 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.

B. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction.

C. Stormwater Control: Comply with authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.

D. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
   1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations approved by Owner.
   2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Provide Owner with one set of keys.

E. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

F. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weather tight enclosure for building exterior.

   1. Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.

G. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
   1. Prohibit smoking in construction areas.
   2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
   3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
   4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

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.
   1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

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. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
   1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
   2. At Substantial Completion, clean and renovate permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION 015000

SECTION 016000 -PRODUCT REQUIREMENTS

PART 1 -GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; product substitutions; and comparable products.

B. See Division 01 Section "Closeout Procedures" for submitting warranties for Contract closeout.

C. See Divisions 02 through 49 Sections for specific requirements for warranties on products and installations specified to be warranted.

1.2 DEFINITIONS

A. Products: Items purchased for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
   1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
   2. New Products: Items that have not previously been incorporated into another project or facility, except that products consisting of recycled-content materials are allowed, unless explicitly stated otherwise. Products salvaged or recycled from other projects are not considered new products.
   3. Comparable Product: Product that is demonstrated and approved through submittal process, or where indicated as a product substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

B. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

C. Basis-of-Design Product Specification: Where a specific manufacturer's product is named and accompanied by the words "basis of design," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of other named manufacturers.

1.3 SUBMITTALS

A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
   1. Substitution Request Form: Use CSI Form 13.1A facsimile of form provided at end of Section.
   2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
      a. Statement indicating why specified material or product cannot be provided.
      b. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
      c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.

d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
e. Samples, where applicable or requested.
f. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
g. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
h. Research/evaluation reports evidencing compliance with building code in effect for Project, from a model code organization acceptable to authorities having jurisdiction.
i. Detailed comparison of Contractor's Construction Schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating lack of availability or delays in delivery.
j. Cost information, including a proposal of change, if any, in the Contract Sum.
k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents and is appropriate for applications indicated.
l. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within 7 days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
   a. Form of Acceptance: Change Order.
   b. Use product specified if Architect cannot make a decision on use of a proposed substitution within time allocated.

B. Comparable Product Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
   1. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
      a. Form of Approval: As specified in Division 01 Section "Submittal Procedures."
      b. Use product specified if Architect cannot make a decision on use of a comparable product request within time allocated.

C. Basis-of-Design Product Specification Submittal: Comply with requirements in Division 01 Section "Submittal Procedures." Show compliance with requirements.

1.4 QUALITY ASSURANCE

A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, product selected shall be compatible with products previously selected, even if previously selected products were also options.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.

B. Delivery and Handling:
   1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
   2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
   3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
   4. Inspect products on delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected.

C. Storage:
   1. Store products to allow for inspection and measurement of quantity or counting of units.
   2. Store materials in a manner that will not endanger Project structure.
   3. Store products that are subject to damage by the elements, under cover in a weather tight enclosure above ground, with ventilation adequate to prevent condensation.
   4. Store cementitious products and materials on elevated platforms.
   5. Store foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
   6. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
   7. Protect stored products from damage and liquids from freezing.

1.6 PRODUCT WARRANTIES

A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
   1. Manufacturer's Warranty: Preprinted written warranty published by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
   2. Special Warranty: Written warranty required by or incorporated into the Contract Documents, either to extend time limit provided by manufacturer's warranty or to provide more rights for Owner.

B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution. Submit a draft for approval before final execution.
   1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
   2. Specified Form: When specified forms are included with the Specifications, prepare a written document using appropriate form properly executed.
   3. Refer to Divisions 2 through 16 Sections for specific content requirements and particular requirements for submitting special warranties.

C. Submittal Time: Comply with requirements in Division 01 Section "Closeout Procedures."

PART 2 -PRODUCTS

1.7 PRODUCT SELECTION PROCEDURES

A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, that are new at time of installation.
   1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
   2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
   3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.

4. Where products are accompanied by the term "as selected," Architect will make selection.
5. Where products are accompanied by the term "match sample," sample to be matched is Architect's.
6. Descriptive, performance, and reference standard requirements in the Specifications establish "salient characteristics" of products.

B. Product Selection Procedures:

1. Product: Where Specifications name a single product and manufacturer, provide the named product that complies with requirements.
2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements.
3. Products: Where Specifications include a list of names of both products and manufacturers, provide one of the products listed that complies with requirements.
4. Manufacturers: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements.
5. Available Products: Where Specifications include a list of names of both products and manufacturers, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product.
6. Available Manufacturers: Where Specifications include a list of manufacturers, provide a product by one of the manufacturers listed, or an unnamed manufacturer, that complies with requirements. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product.
7. Product Options: Where Specifications indicate that sizes, profiles, and dimensional requirements on Drawings are based on a specific product or system, provide the specified product or system. Comply with provisions in Part 2 "Product Substitutions" Article for consideration of an unnamed product or system.
8. Basis-of-Design Product: Where Specifications name a product and include a list of manufacturers, provide the specified product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product by the other named manufacturers.
9. Visual Matching Specification: Where Specifications require matching an established Sample, select a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.

    a. a. If no product available within specified category matches and complies with other specified requirements, comply with provisions in Part 2 "Product Substitutions" Article for proposal of product.

10. Visual Selection Specification: Where Specifications include the phrase "as selected from manufacturer's colors, patterns, and textures" or a similar phrase, select a product that complies with other specified requirements.

    a. Standard Range: Where Specifications include the phrase "standard range of colors, patterns, textures" or similar phrase, Architect will select color, pattern, density, or texture from manufacturer's product line that does not include premium items.
    b. Full Range: Where Specifications include the phrase "full range of colors, patterns, textures" or similar phrase, Architect will select color, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

1.8 PRODUCT SUBSTITUTIONS

A. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:

1. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.

2. Requested substitution does not require extensive revisions to the Contract Documents.

3. Requested substitution is consistent with the Contract Documents and will produce indicated results.

4. Substitution request is fully documented and properly submitted.

5. Requested substitution will not adversely affect Contractor's Construction Schedule.

6. Requested substitution has received necessary approvals of authorities having jurisdiction.

7. Requested substitution is compatible with other portions of the Work.

8. Requested substitution has been coordinated with other portions of the Work.

9. Requested substitution provides specified warranty.

1.9 COMPARABLE PRODUCTS

A. A. Conditions: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:

1. Evidence that the proposed product does not require extensive revisions to the Contract Documents that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.

2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.

3. Evidence that proposed product provides specified warranty.

4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.

5. Samples, if requested.

PART 3 -EXECUTION (Not Used)

END OF SECTION 016000

SECTION 017300 -EXECUTION

PART 1 -GENERAL

1.1 SUMMARY

A. This Section includes general procedural requirements governing execution of the Work including, but not limited to, the following:
   1. Construction layout.
   2. Field engineering and surveying.
   3. General installation of products.
   4. Progress cleaning.
   5. Starting and adjusting.
   6. Protection of installed construction.
   7. Correction of the Work.

B. See Division 01 Section "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.2 SUBMITTALS

A. Certificates: Submit certificate signed by land surveyor certifying that location and elevation of improvements comply with requirements.

B. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.

C. Certified Surveys: Submit four copies signed by land surveyor.

D. Final Property Survey: Submit four copies showing the Work performed and record survey data.

1.3 QUALITY ASSURANCE

A. Land Surveyor Qualifications: A professional land surveyor who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing land-surveying services of the kind indicated.

PART 2 -PRODUCTS (Not Used)

PART 3 -EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of site improvements, utilities, and other construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existence and location of mechanical and electrical systems and other construction affecting the Work.
   1. Before construction, verify the location and points of connection of utility services.

B. Existing Utilities: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities and other construction affecting the Work.
   1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; and underground electrical services.
   2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

C. Acceptance of Conditions: Examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
   1. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
   2. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
   3. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
   4. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Existing Utility Information: Furnish information to local utility that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.

B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to Architect. Include a detailed description of problem encountered, together with recommendations for changing the Contract Documents.

3.3 3.3 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.

B. General: Engage a land surveyor to lay out the Work using accepted surveying practices.
   1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
   2. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
   3. Inform installers of lines and levels to which they must comply.
   4. Check the location, level and plumb, of every major element as the Work progresses.
   5. Notify Architect when deviations from required lines and levels exceed allowable tolerances.
   6. Close site surveys with an error of closure equal to or less than the standard established by authorities having jurisdiction.

C. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and invert elevations.

D. Building Lines and Levels: Locate and lay out control lines and levels for structures, building foundations, column grids, and floor levels, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level foundations and piers from two or more locations.

E. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.

3.4 3.4 FIELD ENGINEERING

A. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.

B. Benchmarks: Establish and maintain a minimum of two permanent benchmarks on Project site, referenced to data established by survey control points. Comply with authorities having jurisdiction for type and size of benchmark.

1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.

C. Certified Survey: On completion of foundation walls, major site improvements, and other work requiring field-engineering services, prepare a certified survey showing dimensions, locations, angles, and elevations of construction and sitework.

D. Final Property Survey: Prepare a final property survey showing significant features (real property) for Project. Include on the survey a certification, signed by land surveyor, that principal metes, bounds, lines, and levels of Project are accurately positioned as shown on the survey.
1. Recording: At Substantial Completion, have the final property survey recorded by or with authorities having jurisdiction as the official "property survey."

3.5 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
1. Make vertical work plumb and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.

D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.

E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.

F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

G. Anchors and Fasteners: Provide anchors and fasteners as required to anchor each component securely in place, accurately located and aligned with other portions of the Work.
   1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
   2. Allow for building movement, including thermal expansion and contraction.
   3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

I. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.6 PROGRESS CLEANING

A. General: Clean Project site and work areas daily, including common areas. Coordinate progress cleaning for joint-use areas where more than one installer has worked. Enforce requirements strictly. Dispose of materials lawfully.
   1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
   2. Do not hold materials more than 7 days during normal weather or 3 days if the temperature is expected to rise above 80 deg F.
   3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
   1. Remove liquid spills promptly.
   2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

G. Waste Disposal: Burying or burning waste materials on-site will not be permitted. Washing waste materials down sewers or into waterways will not be permitted.

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.7 STARTING AND ADJUSTING

A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.

B. Adjust operating components for proper operation without binding. Adjust equipment for proper operation.

C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Manufacturer's Field Service: If a factory-authorized service representative is required to inspect field-assembled components and equipment installation, comply with qualification requirements in Division 01 Section "Quality Requirements."

3.8 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

B. Comply with manufacturer's written instructions for temperature and relative humidity.

3.9 CORRECTION OF THE WORK

A. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Comply with requirements in Division 01 Section "Cutting and Patching."

1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

B. Restore permanent facilities used during construction to their specified condition.

C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.

D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION 017300

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.1 SECTION REQUIREMENTS

A. Performance Requirements: Achieve end-of-Project rates for salvage/recycling of **50 percent** by weight of total nonhazardous solid waste generated by the Work.

1.2 SUBMITTALS

A. Waste Management Plan: Submit plan within seven days of date established for commencement of the Work.

B. Waste Reduction Progress Reports: Submit concurrent with each Application for Payment. Include total quantity of waste, total quantity of waste salvaged and recycled, and percentage of total waste salvaged and recycled.

C. Records of Donations and Sales: Receipts for salvageable waste donated or sold to individuals and organizations. . Indicate whether organization is tax exempt.

D. Recycling and Processing Facility Records: Manifests, weight tickets, receipts, and invoices.

E. Landfill and Incinerator Disposal Records: Manifests, weight tickets, receipts, and invoices.

F. Waste Management Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Administrative Requirements." Review methods and procedures related to waste management.

G. Waste Management Plan: Develop a waste management plan consisting of waste identification, waste reduction work plan, and cost/revenue analysis. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.

1. Salvaged Materials for Reuse: Identify materials that will be salvaged and reused.
2. Salvaged Materials for Sale: Identify materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
3. Salvaged Materials for Donation: Identify materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
4. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

B. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.

C. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.

3.2 SALVAGING DEMOLITION WASTE

A. Salvaged Items for Reuse in the Work: Clean salvaged items and install salvaged items to comply with installation requirements for new materials and equipment.

B. Salvaged Items for sale and donation not permitted on Project site.

C. Salvaged Items for Owner's Use: Clean salvaged items and store in a secure area until delivery to Owner.

D. Doors and Hardware: Brace open end of door frames. Except for removing door closers, leave door hardware attached to doors.

E. Equipment: Drain tanks, piping, and fixtures. Seal openings with caps or plugs.

F. Plumbing Fixtures: Separate by type and size.

G. Lighting Fixtures: Separate lamps by type and protect from breakage.

3.3 RECYCLING WASTE

A. General: Recycle paper and beverage containers used by on-site workers.

B. Packaging:

1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

C. Site-Clearing Wastes: Chip brush, branches, and trees at land fill agency.

D. Asphaltic Concrete Paving: Grind asphalt to maximum 1/1/2 inch size.

E. Asphaltic Concrete Paving: Break up and transport paving to asphalt-recycling facility.

F. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.

1. Pulverize concrete to maximum 1 1/2" size.

2. Masonry: Remove metal reinforcement, anchors, and ties from masonry and sort with other metals.

3. Pulverize masonry to maximum 1 inch size.
4. Clean and stack undamaged, whole masonry units on wood pallets.

G. Wood Materials: Sort and stack members according to size, type, and length. Separate lumber, engineered wood products, panel products, and treated wood materials.

H. Metals: Separate metals by type.

I. Asphalt Shingle Roofing: Remove and dispose of nails, staples, and accessories.

J. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.

K. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location.

L. Metal Suspension System: Separate metal members including trim, and other metals from acoustical panels and tile and sort with other metals.

M. Carpet and Pad: Roll large pieces tightly after removing debris, trash, adhesive, and tack strips.

1. Store clean, dry carpet and pad in a closed container or trailer provided by Carpet Reclamation Agency or carpet recycler.

2. Piping: Reduce piping to straight lengths and store by type and size. Separate supports, hangers, valves, sprinklers, and other components by type and size.

3. Conduit: Reduce conduit to straight lengths and store by type and size.

3.4 DISPOSAL OF WASTE

A. 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.

B. Do not burn waste materials.

END OF SECTION 017419

SECTION 017700 -CLOSEOUT PROCEDURES

PART 1-GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
   1. Substantial Completion procedures.
   2. Final completion procedures.
   3. Warranties.
   4. Final cleaning.
   5. Repair of the Work.

B. B. Related Requirements:
   1. Division 01 Section "Operation and Maintenance Data" for operation and maintenance manual requirements.
   2. Division 01 Section "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.
   3. Division 01 Section "Demonstration and Training" for requirements for instructing Owner's personnel.
   4. Divisions 02 through 33 Sections for specific closeout and special cleaning requirements for the Work in those Sections.

1.2 ACTION SUBMITTALS

A. Product Data: For cleaning agents.

B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.3 CLOSEOUT SUBMITTALS

A. Certificates of Release: From authorities having jurisdiction.

B. Certificate of Insurance: For continuing coverage.

C. Field Report: For pest control inspection.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.5 SUBSTANTIAL COMPLETION PROCEDURES

A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
   1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
   2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, damage or settlement surveys, property surveys, and similar final record information.
   3. Submit closeout submittals specified in individual Divisions 02 through 33 Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
   4. Submit maintenance material submittals specified in individual Divisions 02 through 33 Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Owner. Label with manufacturer's name and model number where applicable.
      a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Owner's signature for receipt of submittals.
   5. Submit test/adjust/balance records.
   6. Submit sustainable design submittals required in Division 01 sustainable design requirements Section and in individual Division 02 through 33 Sections.
   7. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
   1. Advise Owner of pending insurance changeover requirements.
   2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
   3. Complete startup and testing of systems and equipment.
   4. Perform preventive maintenance on equipment used prior to Substantial Completion.
   5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training video recordings specified in Division 01 Section "Demonstration and Training."
   6. Advise Owner of changeover in heat and other utilities.
   7. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
   8. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
   9. Complete final cleaning requirements, including touchup painting.
   10. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.

D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect 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 Architect, 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.

1.6 FINAL COMPLETION PROCEDURES

A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following:
   1. Submit a final Application for Payment according to Division 01 Section "Payment Procedures."

2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
4. Submit pest-control final inspection report and warranty.
5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.

B. Inspection: Submit a written request for final inspection to determine acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect 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.

1.7 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order.
2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
3. Submit list of incomplete items in the following format:

a. MS Excel electronic file. Architect will return annotated copy.

1.8 SUBMITTAL OF PROJECT WARRANTIES

A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.

B. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 -PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
   1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 -EXECUTION

3.1 FINAL CLEANING

A. General: Perform 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: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
   1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
      a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
      b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
      c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
      d. Remove tools, construction equipment, machinery, and surplus material from Project site.
      e. Remove snow and ice to provide safe access to building.
      f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
      g. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
      h. Sweep concrete floors broom clean in unoccupied spaces.
      i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
      j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
      k. Remove labels that are not permanent.
      l. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
      m. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
      n. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
      o. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
      p. Leave Project clean and ready for occupancy.

C. Pest Control: Comply with pest control requirements in Division 01 Section "Temporary Facilities and Controls." Prepare written report.

3.2 REPAIR OF THE WORK

A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.

B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
   1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
   2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.
      a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
   3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
   4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION 017700

SECTION 017823 -OPERATION AND MAINTENANCE DATA

PART 1 PART 1 -GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:
   1. Emergency manuals.
   2. Operation manuals for systems, subsystems, and equipment.
   3. Maintenance manuals for the care and maintenance of products, materials, and finishes, systems and equipment.

B. See Divisions 02 through 49 Sections for specific operation and maintenance manual requirements for the Work in those Sections.

1.2 SUBMITTALS

A. Manual: Submit one copy of each manual in final form at least 15 days before final inspection. Architect will return copy with comments within 15 days after final inspection.
   1. Correct or modify each manual to comply with Architect's comments. Submit 3 copies of each corrected manual within 15 days of receipt of Architect's comments.

PART 2 PART 2 -PRODUCTS

2.1 2.1 MANUALS, GENERAL

A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain a title page, table of contents, and manual contents.

B. Title Page: Enclose title page in transparent plastic sleeve. Include the following information:
   1. Subject matter included in manual.
   2. Name and address of Project.
   3. Name and address of Owner.
   4. Date of submittal.
   5. Name, address, and telephone number of Contractor.
   6. Name and address of Architect.
   7. Cross-reference to related systems in other operation and maintenance manuals.

C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.

D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
   1. Binders: Heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.

a. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents. Indicate volume number for multiple-volume sets.

2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software diskettes for computerized electronic equipment.
4. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
   a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
   b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

2.2 EMERGENCY MANUALS

A. Content: Organize manual into a separate section for type of emergency, emergency instructions, and emergency procedures.

B. Type of Emergency: Where applicable for each type of emergency indicated below, include instructions and procedures for each system, subsystem, piece of equipment, and component for fire, flood, gas, leak, water leak, power failure, water outage and equipment failure. Emergency Instructions: Describe and explain warnings, trouble indications, error messages, and similar codes and signals. Include responsibilities of Owner's operating personnel for notification of Installer, supplier, and manufacturer to maintain warranties.

C. Emergency Procedures: Include instructions on stopping, shutdown instructions for each type of emergency, operating instructions for conditions outside normal operating limits, and required sequences for electric or electronic systems.

2.3 OPERATION MANUALS

A. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and equipment descriptions, operating standards, operating procedures, operating logs, wiring and control diagrams, and license requirements.

B. Descriptions: Include the following:
   1. Product name and model number.
   2. Manufacturer's name.
   3. Equipment identification with serial number of each component.
   4. Equipment function.
   5. Operating characteristics.
   6. Limiting conditions.
   7. Performance curves.
   8. Engineering data and tests.
   9. Complete nomenclature and number of replacement parts.

C. Operating Procedures: Include start-up, break-in, and control procedures; stopping and normal shutdown instructions; routine, normal, seasonal, and weekend operating instructions; and required sequences for electric or electronic systems.

D. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.

E. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

2.4 2.4 PRODUCT MAINTENANCE MANUAL

A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.

B. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

C. Product Information: Include the following, as applicable:
   1. Product name and model number.
   2. Manufacturer's name.
   3. Color, pattern, and texture.
   4. Material and chemical composition.
   5. Reordering information for specially manufactured products.

D. Maintenance Procedures: Include manufacturer's written recommendations and inspection procedures, types of cleaning agents, methods of cleaning, schedule for cleaning and maintenance, and repair instructions.

E. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

F. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

2.5 SYSTEMS AND EQUIPMENT MAINTENANCE MANUAL

A. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.

B. Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

C. Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including maintenance instructions, drawings and diagrams for maintenance, nomenclature of parts and components, and recommended spare parts for each component part or piece of equipment:

D. Maintenance Procedures: Include test and inspection instructions, troubleshooting guide, disassembly instructions, and adjusting instructions, and demonstration and training videotape if available, that detail essential maintenance procedures:

E. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.

F. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.

G. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.

H. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

PART 3 -EXECUTION

3.1 MANUAL PREPARATION

A. Emergency Manual: Assemble a complete set of emergency information indicating procedures for use by emergency personnel and by Owner's operating personnel for types of emergencies indicated.

B. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.

C. Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.

D. Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.

E. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in Record Drawings to ensure correct illustration of completed installation.
   1. Do not use original Project Record Documents as part of operation and maintenance manuals.

F. Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

END OF SECTION 017823

SECTION 017839 -PROJECT RECORD DOCUMENTS

PART 1 -GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for project record documents, including the following:
   1. Record Drawings.
   2. Record Specifications.
   3. Record Product Data.

B. B. Related Requirements:
   1. Division 01 Section "Operation and Maintenance Data" for operation and maintenance manual requirements.
   2. Divisions 02 through 33 Sections for specific requirements for project record documents of the Work in those Sections.

1.2 1.2 CLOSEOUT SUBMITTALS

A. Record Drawings: Comply with the following:
   1. Number of Copies: Submit one set(s) of marked-up record prints.
   2. Number of Copies: Submit copies of record Drawings as follows:

      a. Initial Submittal: 1) Submit one paper-copy set(s) of marked-up record prints. 2) Submit PDF electronic files of scanned record prints and one set(s) of file prints. 3) Submit record digital data files and one set(s) of plots. 4) Architect will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.
      b. b. Final Submittal: 1) Submit one paper-copy set(s) of marked-up record prints. 2) Submit record digital data files and one set(s) of record digital data file plots. 3) Plot each drawing file, whether or not changes and additional information were recorded.

B. Record Specifications: Submit annotated PDF electronic files of Project's Specifications, including addenda and contract modifications.

C. Record Product Data: Submit annotated PDF electronic files and directories of each submittal.

PART 2 -PRODUCTS

2.1 2.1 RECORD DRAWINGS

A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised Drawings as modifications are issued.
   1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
      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.
c. Record and check the markup before enclosing concealed installations.

(i) Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
(ii) Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
(iii) Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:
1. Format: Same digital data software program, version, and operating system as the original Contract Drawings.
2. Format: PDF version Microsoft Windows operating system.
3. Format: Annotated PDF electronic file with comment function enabled.
4. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
5. Refer instances of uncertainty to Architect for resolution.
6. Architect will furnish Contractor one set of digital data files of the Contract Drawings for use in recording information.

C. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
2. Format: Annotated PDF electronic file with comment function enabled.
3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
4. Identification: As follows:
a. Project name.
b. Date.
c. Designation "PROJECT RECORD DRAWINGS."
d. Name of Architect.
e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.
1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. Note related Change Orders, record Product Data, and record Drawings where applicable.

B. Format: Submit record Specifications as annotated PDF electronic file.

2.3 RECORD PRODUCT DATA

A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
   1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.

B. Format: Submit record Product Data as annotated PDF electronic file.

2.4 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.

B. Format: Submit miscellaneous record submittals as PDF electronic file.

PART 3 -EXECUTION

3.1 RECORDING AND MAINTENANCE

A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until 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 construction. Do not use project record documents for construction 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 Architect's reference during normal working hours.

END OF SECTION 017839

SECTION 017900 -DEMONSTRATION AND TRAINING

PART 1 -GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for instructing Owner's personnel, including the following:
   1. Demonstration of operation of systems, subsystems, and equipment.
   2. Training in operation and maintenance of systems, subsystems, and equipment.
   3. Demonstration and training videotapes.

B. See Divisions 02 through 49 Sections for specific requirements for demonstration and training for products in those Sections.

1.2 SUBMITTALS

A. Instruction Program: Submit two copies of outline of instructional program for demonstration and training, including a schedule of proposed dates, times, length of instruction time, and instructors' names for each training module. Include learning objective and outline for each training module.

1.3 QUALITY ASSURANCE

A. Facilitator Qualifications: A firm or individual experienced in training or educating maintenance personnel in a training program similar in content and extent to that indicated for this Project, and whose work has resulted in training or education with a record of successful learning performance.

B. Instructor Qualifications: A factory-authorized service representative, complying with requirements in Division 01 Section "Quality Requirements," experienced in operation and maintenance procedures and training.

C. Preinstruction Conference: Conduct conference at Project site. Review methods and procedures related to demonstration and training.

D. Coordinate content of training modules with content of approved emergency, operation, and maintenance manuals. Do not submit instruction program until operation and maintenance data has been reviewed and approved by Architect.

PART 2 -PRODUCTS

2.1 INSTRUCTION PROGRAM

A. Program Structure: Develop an instruction program that includes individual training modules for each system and equipment not part of a system, as required by individual Specification Sections.

B. Training Modules: Develop a learning objective and teaching outline for each module. Include a description of specific skills and knowledge that participant is expected to master. For each module, include instruction for the following:
   1. Basis of System Design, Operational Requirements, and Criteria: Include system and equipment descriptions, operating standards, regulatory requirements, equipment function, operating characteristics, limiting conditions, and performance curves.

2. Documentation: Review emergency, operations, and maintenance manuals; Project Record Documents; identification systems; warranties and bonds; and maintenance service agreements.
3. Emergencies: Include instructions on stopping; shutdown instructions; operating instructions for conditions outside normal operating limits; instructions on meaning of warnings, trouble indications, and error messages; and required sequences for electric or electronic systems.
4. Operations: Include startup, break-in, control, and safety procedures; stopping and normal shutdown instructions; routine, normal, seasonal, and weekend operating instructions; operating procedures for emergencies and equipment failure; and required sequences for electric or electronic systems.
5. Adjustments: Include alignments and checking, noise, vibration, economy, and efficiency adjustments.
6. Troubleshooting: Include diagnostic instructions and test and inspection procedures.
7. Maintenance: Include inspection procedures, types of cleaning agents, methods of cleaning, procedures for preventive and routine maintenance, and instruction on use of special tools.
8. Repairs: Include diagnosis, repair, and disassembly instructions; instructions for identifying parts; and review of spare parts needed for operation and maintenance.

PART 3 - EXECUTION

3.1 INSTRUCTION

A. Facilitator: Engage a qualified facilitator to prepare instruction program and training modules, to coordinate instructors, and to coordinate between Contractor and Owner for number of participants, instruction times, and location.

B. Engage qualified instructors to instruct Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.
   1. Owner will furnish an instructor to describe Owner's operational philosophy.

C. Scheduling: Provide instruction at mutually agreed on times. For equipment that requires seasonal operation, provide similar instruction at start of each season.
   1. Schedule training with Owner with at least seven days' advance notice.

END OF SECTION 017900

ARCHITECT'S ADDENDUM #3

Project: Firebaugh Gateway Seniors Apartments

1238 P Street

Firebaugh, CA

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and previous Addenda as noted below. Acknowledge receipt of this Addendum in the space provided below by signing and returning to Architect via email to jon@rldavidson.com. Failure to do so may subject Bidder to disqualification.

This Addendum consists of 1 pages and all attachments noted herein.

Contractor's Acknowledgement of Receipt of Addendum

Name/Company _____ Signature _____ Date: _____

I. MODIFICATIONS TO PREVIOUS ADDENDA:
None

II. MODIFICATIONS TO PROJECT MANUAL:
None

III. MODIFICATIONS TO DRAWINGS

ARCHITECTURAL DRAWINGS:
Sheet A1.02: The landscape strip along 13th Street has been removed and replaced with concrete to make it a full-width sidewalk. Also, the angled parking striping along 13th Street has been removed. (City Engineer Requirements)

STRUCTURAL DRAWINGS:
None

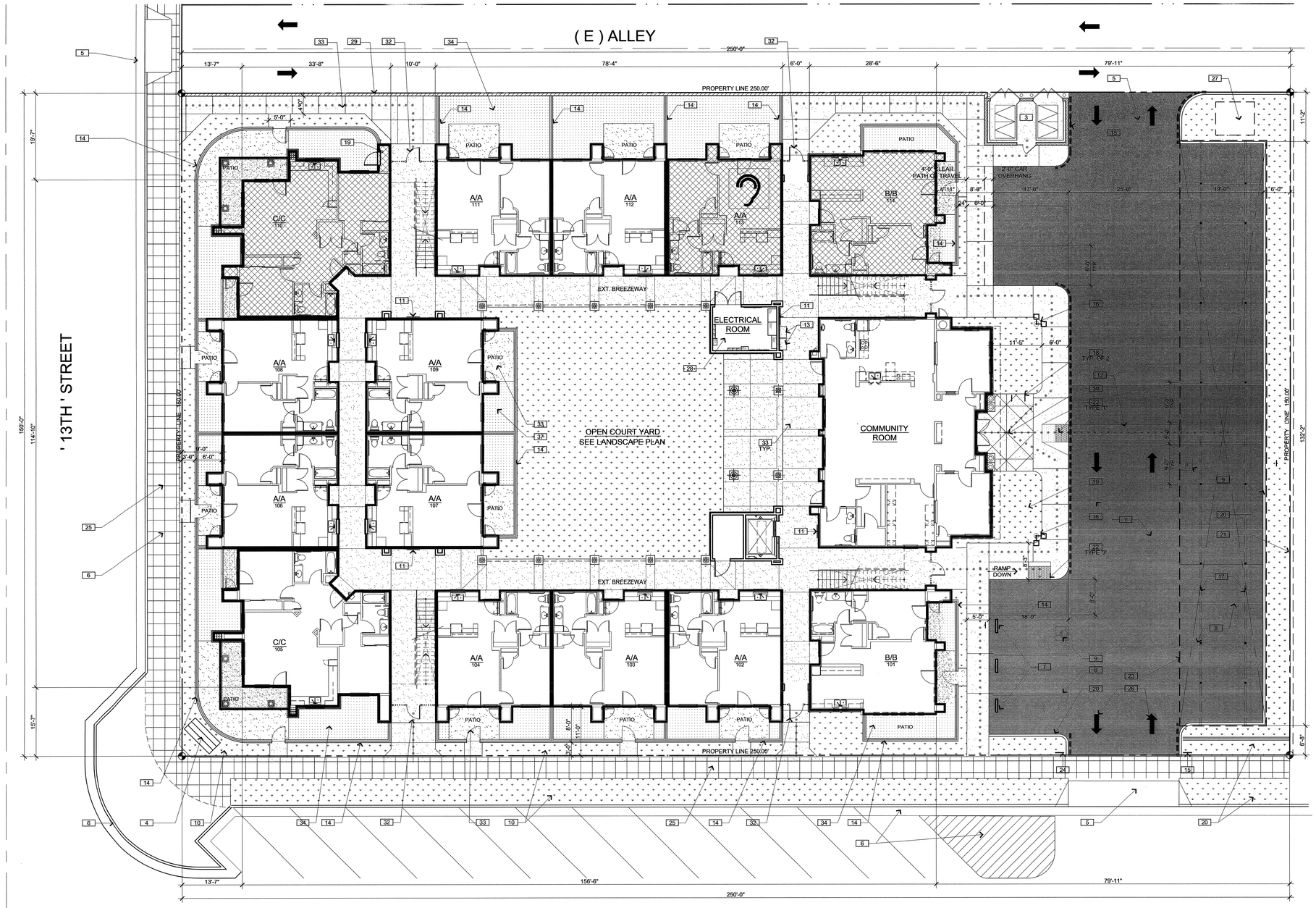
PLUMBING DRAWINGS:
None

MECHANICAL DRAWINGS:
None

ELECTRICAL DRAWINGS:
None

CIVIL DRAWINGS:
None

IV. MISCELLANEOUS CLARIFICATIONS
Sheets L2.1 & L3.1: Modified to remove the landscape strip along 13th Street and relocate the street trees previously in that landscape strip to be placed behind the property line with the associated irrigation lines and fittings removed or relocated as required.



PROJECT INFORMATION

APPLICANT / DEVELOPER: HOUSING AUTHORITY OF FRESNO COUNTY, CALIFORNIA
1331 FULTON MALL,
FRESNO, CA. 93721

SITE ADDRESS: 1238 & 1264 & 'P' STREET,
FIREBAUGH, CA.

LEGAL DESCRIPTION:
REAL PROPERTY IN THE CITY OF FIREBAUGH, COUNTY OF FRESNO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

PARCEL 1: (APN: 008--075-03)

LOTS 7, 8, 9, AND 10 IN BLOCK 35 IN THE CITY OF FIREBAUGH, COUNTY OF FRESNO, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED FEBRUARY 7, 1894 IN BOOK 1, PAGE 13 OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 2: (APN: 008-075-11)
LOTS 1, 2, 3, 4, 5 AND 6 IN BLOCK 35 IN THE CITY OF FIREBAUGH, COUNTY OF FRESNO, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED IN BOOK 1, PAGE 13 OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

SITE AREA:	37,500 SQ. FT. = 0.8608 ACRES
GENERAL PLAN DESIGNATION:	MEDIUM DENSITY
EXISTING ZONING:	R3 - CUP - PZ2012-10
PROPOSED ZONING:	C-2
TOTAL UNITS PROPOSED:	30
PROPOSED DENSITY:	= 34.85 UNITS / ACRE = 1 UNIT / 1250 S.F.
OCCUPANCY GROUPS:	R-2/B
CONSTRUCTION TYPE:	V-A
FIRE SPRINKLERS:	YES - NFPA-13
PROPOSED BUILDING HEIGHT:	2 STORIES / 40' +/-

YARDS:	REQ'D.	PROV.	FENCES:
FRONT (SOUTH)	NONE	10'-0"	5'-6" HIGH W.I. FENCE
REAR (NORTH)	5'-0"	5'-0"	6'-0" HIGH CMU. WALL - EX.
SIDE (WEST)	NONE	16'-0"	6'-0" HIGH CMU WALL
SIDE (EAST)	NONE	11'-9"±	5'-6" W.I. FENCE / WALL

UNIT BREAKDOWN:

			TOTAL	
'A' UNITS	- 1 BDRM, 1 BATH @	650 S.F. EACH	= 22	= 73.35 %
'B' UNITS	- 1 BDRM, 1 BATH @	709 S.F. EACH	= 4	= 13.33 %
'C' UNITS	- 2 BDRM, 2 BATH @	942 S.F. EACH	= 4	= 13.33 %
	TOTAL RENTABLE		= 30 UNITS	

COMMUNITY CENTER:
OFFICES, RESTROOMS = 1,017 S.F.
COMMUNITY SPACE/BISTRO = 895 S.F.
TOTAL SQ. FOOTAGE = 1,912 S.F.

LOT COVERAGE:
TOTAL BUILDING: ± 18,000 S.F.

% LOT COVERAGE: (18,000 / 37,500) x 100 = 48.0 %

PARKING DEVELOPMENT DATA

PARKING REQUIRED (CITY OF FIREBAUGH):
0.66 STALLS / UNIT = 30 x 0.66 = 20 STALLS

MINIMUM STALL SIZES
STANDARD STALLS: 9' WIDE x 19'-0" DEEP
CARPORTS: 9' WIDE x 19'-0" DEEP
MINIMUM 2-WAY DRIVE WIDTH: 25'-0"

PARKING PROPOSED:
1 BEDROOM UNITS: 26 x 0.66 STALL/UNIT = 17.16 STALLS
2 BEDROOM UNITS: 4 x 0.66 STALLS/UNIT = 2.64 STALLS
TOTAL PROPOSED: = 20 STALLS

PARKING RATIO PROVIDED = 0.66 STALLS / UNIT

SITE ACCESSIBILITY NOTES:

1. EXTERIOR ACCESSIBLE PATHS OF TRAVEL SHALL BE CONTINUOUSLY ACCESSIBLE BARRIER FREE ROUTES WITH THE FOLLOWING REQUIREMENTS:
   - THERE SHALL BE NO ABRUPT CHANGES IN LEVEL EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE
   - BE A MINIMUM OF 48" IN WIDTH
   - SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH
   - HAVE A MAX. OF 2% CROSS SLOPE (1/4"/FT.)
   - WHERE NECESSARY TO CHANGE ELEVATION AT A SLOPE EXCEEDING 5% (ie;1:20) SHALL HAVE ACCESSIBLE RAMP
   - HAVE DETECTABLE WARNINGS WHERE THE PATH OF TRAVEL CROSSES/ADJOINS A VEHICULAR ROUTE
2. REFER TO SHEET A0.0.1 FOR ADDITIONAL REQUIREMENTS.
3. REFER TO SHEETS A8.01, A8.02, A8.03 AND A8.04 FOR TYPICAL DETAILS PERTAINING TO ACCESSIBLE ELEMENTS OF THE PROJECT.

SITE LOCATION

P Street, / 13 Street,
Firebaugh CA.

VICINITY MAP:

FIREBAUGH, CA

NORTH

SCALE: N.T.S.

SITE NOTES:

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION TRADES AND ENSURING THAT ALL FINISHED WORK COMPLIES WITH ALL FEDERAL AND STATE ACCESSIBILITY REQUIREMENTS INCLUDING BUT NOT LIMITED TO: SLOPE OF PATH OF TRAVEL, ETC.
2. REFER TO CIVIL ENGINEERING DRAWINGS FOR HORIZONTAL CONTROL. DIMENSIONS SHOWN ON ARCHITECTURAL SITE PLAN INDICATES MIN. DISTANCE BETWEEN BUILDINGS OR ADJACENCIES.
3. ALL OPEN NON-PAVED AREAS SHALL BE LANDSCAPED. (TYP.)
4. ALL TRAFFIC CONTROL DEVICES AND GATES PROPOSED WITHIN THE PROJECT SHALL BE REVIEWED AND APPROVED BY THE FIRE DEPARTMENT PRIOR TO ISSUANCE OF BUILDING PERMITS.
5. THE CONSTRUCTION SITE SHALL BE WATERED FOR DUST CONTROL AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS/ AND CITY REQUIREMENTS.
6. RESIDENTIAL STRUCTURES SHALL BE EQUIPPED WITH ELECTRICAL OUTLETS ON ALL FOUR SIDES OF THE STRUCTURE TO FACILITATE THE USE OF ELECTRIC LAWN AND GARDEN EQUIPMENT.
7. AISLES, PASSAGEWAYS AND RECESSES RELATED TO AND WITHIN THE BUILDING COMPLEX SHALL BE ILLUMINATED WITH AN INTENSITY OF AT LEAST 0.25 FOOT- CANDLES AT GROUND LEVEL 30 MIN. BEFORE SUNSET & 30 MIN. BEFORE SUNRISE.
8. ALL LIGHTING DEVICES SHALL BE PROTECTED BY WEATHER AND VANDAL RESISTANT COVERS.
9. LIGHTS SHALL BE OF AN ENERGY-EFFICIENT, INDIRECT DIFFUSED TYPE, & SHALL NOT EXCEED A HEIGHT GREATER THAN _____ ABOVE FINISHED GRADE
10. ALL EXTERIOR LIGHTING SHALL BE SHIELDED SO AS NOT TO PRODUCE OBTRUSIVE GLARE ONTO THE PUBLIC RIGHT-OF-WAY OR ADJOINING PROPERTIES.
11. OPEN PARKING LOTS AND CARPORTS SHALL BE PROVIDED WITH A MAINTAINED MINIMUM OF ONE FOOT-CANDLE OF LIGHT ON THE ENTIRE PAVED AREA OF THE PARKING SURFACE 30 MIN. BEFORE SUNSET & 30 MIN. BEFORE SUNRISE.
12. SEE CIVIL DRAWINGS FOR FIRE HYDRANT LOCATIONS

KEY NOTES:

THE FOLLOWING KEYNOTES SHALL APPLY WHERE INDICATED IN THIS SHEET.

1. INDICATES A/C PAVING o/CRUSHED ROCK BASE PER CITY STD'S. AND GEOTECHNICAL REPORT - REFER TO CIVIL DRAWINGS FOR PAVING SECTION
2. (NOT USED)
3. TRASH ENCLOSURE (WITH COVER PER CITY REQUIREMENTS) - SEE DETAIL ..... **SHT. A1.04 / DET. 13**
4. INDICATES PROJECT MONUMENT SIGN. ALL PROPOSED SIGNS SHALL BE ARCHITECTURALLY COMPATIBLE WITH THE PROPOSED BUILDINGS. - ALL SIGNS SHALL BE REVIEWED & APPROVED BY A SEPARATE PERMIT. - REFER TO DETAIL ..... **SHT. A1.03 / DET. 15**
5. INDICATES NEW DRIVE APPROACH PER CITY OF FIREBAUGH STANDARD DRAWINGS AND CIVIL DRAWINGS - PROVIDE 10' OF RED PAINTED CURB ON EACH SIDE OF DRIVE.
6. ALL OFF-SITE IMPROVEMENTS PER CIVIL DRAWINGS
7. INDICATES PRE-CAST CONCRETE TIRE STOPS (TYP.) @ EACH STALL - REFER TO DETAIL ..... **SHT. A1.03 / DET. 6**
8. PROVIDE 4" WIDE WHITE PAINTED PARKING STRIPES AT ALL PARKING STALLS. - FULL DEPTH OF STALL
9. INDICATES ACCESSIBLE PARKING STALL(S). - REFER TO DETAIL ..... **SHT. A8.01 / DET. 4**
10. LANDSCAPE AREA PER LANDSCAPING PLANS.
11. TENTATIVE LOCATION OF SITE DIRECTORY SIGNS / VERIFY w/. OWNER.
12. INDICATES 4'-0" (MIN.) WIDE WHITE PAINTED CROSS WALK HATCHING FOR ACCESSIBILITY
13. 'SALSBURY INDUSTRIES' MDL. #3316 MAILBOXES (OR SIM.) PROVIDE MIN. 32 MAILBOXES, 2 OUTGOING BOXES, AND 4 PARCEL BOXES (COORDINATE SIZE AND LOCATION WITH U.S. POSTAL SERVICE)
14. NEW 4'-0" HIGH FENCE w/GATE AT UNIT PATIO'S. - REFER TO DETAILS ..... **SHT. A1.03 / DET. 23 & 25**
15. SIGN AT PARKING ENTRANCE - REFER TO DETAIL ..... **SHT. A8.01 / DET. 4B**
16. POLE MOUNTED LIGHT FIXTURE PER ELECTRICAL DRAWINGS - REFER TO DETAIL ..... **SHT. ES-1.0 / DET. 1**
17. LINE OF PRE-FABRICATED CARPORT HEADER - REFER TO DETAIL ..... **SHT. A1.03 / DET. 22**
18. BIKE RACK - 'SERIES' (WWW.BIKEPARKING.COM) - REFER TO DETAIL ..... **SHT. A1.03 / DET. 4**
19. TENTATIVE LOCATION FOR FIRE SPRINKLER RISER w/ ACCESS PANEL.
20. NEW 6" HIGH CONTINUOUS CONCRETE CURB, TYP. - SEE CIVIL DRAWINSG
21. INDICATES EXISTING 6'-0" HIGH CMU WALL - SEE CIVIL DWG'S. - WALL TO BE PAINTED; COLOR TO MATCH (E) BLDG.
22. INSTALL "DETECTABLE WARNING DEVICES" ON FULL WIDTH OF RAMP, SEE CIVIL DRAWINGS FOR RAMP SLOPES & DIMENSIONS - REFER TO DETAILS ..... **SHT. A8.01 / DET. 7, 8, 9 & 10**
23. INDICATES PRE-FAB METAL CARPORTS, TYP. - REFER TO DETAIL ..... **SHT. A1.03 / DET. 22**
24. INDICATES 'STOP' SIGN PER CITY STANDARDS
25. INDICATES NEW SIDEWALK IN PUBLIC RIGHT-OF-WAY PER CITY PER CITY OF FIREBAUGH STANDARD DRAWINGS - REFER TO CIVIL DRAWINGS
26. INDICATES WHITE PAINTED DIRECTIONAL ARROWS PER CITY STDS.
27. INDICATES TENTATIVE ELECTRICAL TRANSFORMER LOCATION - TRANSFORMER MAY NOT BE LOCATED IN REQUIRED SETBACKS OR ALONG STREET FRONTAGES - COORD. W/ UTILITY & LANDSCAPING
28. INDICATES ELECTRICAL METER LOCATION.
29. 6' HIGH SLUMP STONE FENCE w/ROOF TILE RIDGE CAP - REFER TO DETAIL ..... **SHT. A1.03 / DET. 8**
30. INDICATES STAMPED & COLORED CONCRETE AT MAIN ENTRY - VERIFY COLOR PRIOR TO CONSTRUCTION
31. NOT USED
32. 4'-0"H WROUGHT IRON ENTRY GATE. - REFER TO DETAIL ..... **SHT. A1.03 / DET. 25**
33. CONC. FLATWORK w/ EXP. JOINT - REFER TO DETAIL ..... **SHT. A1.03 / DET. 18**
34. COMPACTED DECOMPOSED GRANITE. - REFER TO LANDSCAPING DRAWINGS

SITE PLAN LEGEND:

MARK	DESCRIPTION
U.N.O.	UNLESS NOTED OTHERWISE
	36" x 36" INTERNATIONAL SYMBOL OF ACCESSIBILITY. PAINTED ON PAVEMENT AT ACCESSIBLE PARKING SPACES - SEE DETAILS ..... **4/A8.01 & 5/A8.01**
	ACCESS AISLE AT ACCESSIBLE PARKING. - SEE ..... **DETAIL 4/A8.01**
	INDICATES 10 % OF GROUND FLOOR UNITS TO BE CONSTRUCTED AS FULLY ACCESSIBLE UNITS, & SHALL HAVE ACCESSIBLE PATH OF TRAVEL. ALL OTHER UNITS SHALL BE ADAPTABLE w/ ACCESSIBLE PATH OF TRAVEL - FOR BUILDINGS WITH ELEVATORS - ALL LEVELS SERVED BY THE ELEVATOR SHALL BE CONSIDERED AS GROUND FLOOR UNITS.
	INDICATES ACCESSIBLE PATH OF TRAVEL/ VERIFY w/ CIVIL ALL EXTERIOR ENTRY, PATIO SLIDERS & FRENCH DOORS, ETC. SHALL MEET STATE AND FEDERAL ACCESSIBILITY STANDARDS AT ACCESSIBLE LEVELS.
AE/AE	INDICATES UNIT BELOW INDICATES UNIT ABOVE
	INDICATES RED PAINTED CURB FOR FIRE LANE - SEE DETAIL ..... **SHT A1.03 / DET 11 & 12**
	COMMON PLANTING AREA - REFER TO LANDSCAPE/IRRIGATION DRAWINGS
	COMPACTED DECOMPOSED GRANITE. - REFER TO LANDSCAPE/IRRIGATION DRAWINGS

NORTH

R.L. Davidson, Inc.
ARCHITECTS
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Fresno, CA 93711
559.435.3303
www.rldavidson.com

LICENSED ARCHITECT
ROBERT L. DAVIDSON
NO. C8883
REN. 1-31-17
STATE OF CALIFORNIA

FIREBAUGH
GATEWAY PROJECT
1238 & 1264 'P' Street
Firebaugh, CA

FOR:
HOUSING AUTHORITY OF
FRESNO COUNTY, CALIFORNIA

NO.	DATE:	ISSUE:
	07-02-2012	INITIAL DESIGN
	08-16-2012	REVISED DESIGN
	02-10-2015	REVISED DESIGN
	08-12-2015	P.C. SUBMITTAL
1	08-21-2015	P.C. CORRECTIONS

SHEET TITLE:

ARCHITECTURAL
SITE PLAN

SCALE: 1"=10'-0"

SHEET NO.

A1.02

PROJECT NO. 1210

Water Efficient Landscape Ordinance (WELO) Notes:

1. These plans have been prepared to be in compliance with the State-mandated Water Efficient Landscape Ordinance (WELO). The following notes reference the requirements of the ordinance and the responsibility of the contractor to install the landscape per the plans, details, and notes; provide the required documentation to the local agency; and provide follow-up correction as required to meet the water efficiency requirements.
2. The landscape contractor shall coordinate with the local jurisdiction to determine who will review and receive the WELO documentation that is required to be provided by the contractor.

Landscape Documentation Package

1. Project Information and signatures - The signature of the landscape architect on these landscape plans is applicable to the statement - "I agree to the best of my ability to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Document Package".
2. Water Efficient Landscape Worksheet - See MAWA and ETWU, as well as hydrozone information table on this sheet.
3. Soil management report - See Notes requirements as described below.
4. Landscape Design Plan - See Planting Plans and Details contained within this set of documents.
5. Irrigation Design Plan - See Irrigation Plans and Details contained within this set of documents.
6. Grading Design Plan - To be provided by the civil engineer - See civil engineer's plans.

Soil Management Report

1. After mass grading the contractor shall provide for a soil analysis that shall comply with the requirements provided below. The analysis report is to be forwarded to the landscape architect, owner, and governing jurisdiction.
2. Soil samples shall be collected in accordance with laboratory protocol including adequate sampling depth.
3. At least one sample shall be provided for each 20,000 sf of landscape unless otherwise noted by the landscape architect. Samples shall be taken from different areas of the site as directed by the landscape architect.
4. The Soil Analysis shall include the following:
   - Soil texture
   - Infiltration Rate (determined by lab test or soil texture infiltration rate table).
   - pH
   - Total soluble salts
   - Sodium
   - Percent organic mater
   - Recommendations for soil amendments, fertilizer, etc. for the type of landscape planting proposed.
5. Soil Analysis shall be conducted by an approved soil testing lab. The following are acceptable (but not required) labs:
   Sunland Analytical, 11419 Sunrise Gold Circle, Suite 10, Rancho Cordova, CA 95742, (916)852-8557, www.sunland-analytical.com.
   Soil and Plant Lab, 1101 S. Winchester Blvd., Suite G-173, San Jose, CA 95128, (408)727-0330, www.soilandplantlaboratory.com.
   Soil and Plant Lab, 4741 East Hunter Ave., Suite A, Anaheim, CA 92807, (714)282-8777, www.soilandplantlaboratory.com.
6. The recommendations of the soil analysis are to be implemented in the landscape soil preparation. The contractor shall provide documentation, prior to planting, verifying that recommendations have been implemented to the landscape architect and the governing jurisdiction.

Landscape Design (Planting)

1. The landscape has been designed and plants selected to be compliant with the requirements of the WELO. The contractor shall not make changes without written approval by the landscape architect. If the contractor deviates from the plan and it is not acceptable to the landscape architect, the contractor will be required to make changes at his/her expense to bring the landscape into compliance.
2. Plants have been placed in 'hydrozones' of similar water use requirements. The extent of the hydrozones are delineated by the groups of irrigation circuits as listed in the Hydrozone Table, included with these plans.
3. Turf is not allowed on slopes greater than 25% (4:1).
4. Mulch is required in all planting area except for turf, creeping or rooting groundcovers, direct seeding applications, cobble areas, or other areas specifically noted on the plans. The mulch shall be a minimum of 2", but the depth as listed in the planting legend shall take priority.
5. Stabilizing mulches shall be used on all slopes exceeding 4:1. See plan or coordinate with landscape architect.
6. Soil amendments shall be incorporated per the soil report.
7. The signature on the landscape plans is applicable to the statement - "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan."

Irrigation Design

1. The irrigation water service shall be on a separate meter than the domestic service.
2. The irrigation controller (clock) shall be a 'smart' controller using evapotranspiration or soil moisture sensor data to automatically adjust run times based on landscape area water needs.
3. The irrigation system has been designed for each emission device to operate within the manufacturer's recommended pressure range for optimal performance. If the water pressure at the service connection is different than what is shown on the plans the contractor shall notify the landscape architect prior to installation of the irrigation system. Contractor shall check available water pressure before any irrigation installation.
4. Pressure regulators or booster pumps shall be installed if needed to modify available pressure for the optimal performance of the irrigation emission devices. See specifications on the plans and refer to note #3 above.
5. A rain sensor shall be installed and tied to the controller - See plan for selection.
6. Gate valve(s) shall be installed directly downstream of the service connection(s).
7. An approved backflow preventer shall be installed at the irrigation service connection. See plan.
8. Check valves shall be installed in all heads at the low points of a circuit where water within the piping may drain out of the head when the system is done operating - See plan.
9. The irrigation circuits have been designed to correspond to the planting hydrozones. Changes to the irrigation layout and types of emission devices are not to be made without the written consent of the landscape architect.
10. The overall irrigation system has been designed to be a minimum of 71% efficient. Total water demand of established landscape has been designed to use less water than the Maximum Applied Water Allowance (MAWA). See Irrigation Schedule and Irrigation Water Audit Notes.
11. The irrigation system has been designed so that each circuit has matched precipitation rates within the circuit and high distribution uniformity. The contractor shall not substitute without written consent of the landscape architect.
12. Swing joints shall be installed on all pop-up heads per the plans and details.
13. Areas less than 8' in width have been irrigated with subsurface, drip, or low volume irrigation. If construction site modifications reduce spray irrigated planter areas less than 8' contact the landscape architect.
14. Overhead spray irrigation heads and nozzles are not allowed within 24" of non-permeable paving. This requirement does not apply to irrigation that is adjacent to permeable paving or non-permeable paving that drains into landscape before entering the storm drain system.
15. Sloped planting areas greater than 25% (4:1) have been designed with irrigation whose precipitation rate does not exceed .75"/hour, or another means has been employed and described on the plans.
16. Trees may be designed with a separate deep root bubbler system - See the plans.
17. The signature on the irrigation plans is applicable to the statement - "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."

Grading Design

1. See the grading and drainage plan as prepared by the civil engineer. The landscape contractor shall maintain the drainage patterns as specified in the grading plans.
2. The site has been graded so that irrigation and normal run-off remains within the property lines, unless otherwise noted on the grading plans.
3. The landscape areas may include bioswales or filtration swales. The landscape contractor shall install these per the requirements of the civil engineer's plans and details with the planting per these plans. Any modifications must be approved in writing by the civil engineer and the landscape architect.

Irrigation Schedule

1. See the irrigation base schedule as included with the irrigation plans and notes. This is a guide - The landscape contractor may need to make modifications based on actual site and landscape conditions. Revised schedule shall be submitted with the Certificate of Completion.
2. Overhead irrigation shall be scheduled between 8:00PM and 10:00AM unless otherwise noted on the plans or more strict watering hours are required by the local jurisdiction.
3. The irrigation run times, length of run, and frequency of run times may need to be adjusted based on infiltration rate of the soil, slope, etc. to avoid run-off.
4. The specific parameters of the site conditions are to be input into the 'smart' controller.

Irrigation Audit

1. All irrigation audits shall be conducted by a certified landscape irrigation auditor.
2. The irrigation system shall be audited after it has been installed and 'fine-tuned'. The audit report is to be included with the Certificate of Completion and shall include, but not be limited to:
   - System test for distribution uniformity.
   - Recommendations for any adjustments that may be needed.
   - Preparation of an irrigation schedule.
3. The contractor shall make the adjustments as recommended in the irrigation audit.

Certificate of Completion

1. The contractor shall provide to the governing jurisdiction and the landscape architect a Certificate of Completion that at a minimum includes the following:
   - Date of completion and date of the Certificate.
   - Project Name and Address (or specific location).
   - Project Applicant name, telephone number, and mailing address.
   - Property owner name, telephone number, and mailing address.
2. The landscape contractor shall sign a statement that says the landscape and irrigation has been installed per the approved Landscape Document Package (plans, details, notes, calculations as contained within this plan set.
3. If there have been modifications to the layout and/or design of the landscape and irrigation, the contractor shall include with the Certificate of Completion a set of as-built plans or record drawings that reflect the modifications. The modified landscape and irrigation must remain in compliance with the WELO.
4. The Certificate of Completion shall include the initial irrigation audit that shows the irrigation is in compliance with the irrigation efficiency requirements of WELO (see audit information within this set of notes). The soil analysis report and recommendations and verification that the recommendations have been implemented shall also be submitted, if not included with the Landscape Documentation Package.

Irrigation Valve Table

Valve #	Hydro-zone	Size	Planting Type	Irrigation Type	Irrig. effic.	Precip. Rate	GPM	Pressure
1	1	1"	Shrubs	Drip Emitter	.90	-	4.52	20
2	1	1"	Shrubs	Drip Emitter	.90	-	5.84	20
3	2	1"	Shrubs	Drip Emitter	.90	-	7.85	20
4	2	1"	Shrubs	Drip Emitter	.90	-	4.72	20
5	1	1"	Shrubs	Drip Emitter	.90	-	2.61	20
6	3	1"	Palm Trees	Tree Bubbler	.90	-	3.0	20
7	3	1"	Street Trees	Tree Bubbler	.90	-	9.0	20

Establishment Period Irrigation Schedule

This schedule is based on providing irrigation to keep the soil extra moist as needed to promote root growth for plant establishment. Specific microclimate conditions and observed water needs, soil, slope, sun exposure, etc. will require adjustment of this schedule in the field to meet the unique needs of each circuit. Controller is to be connected to weather sensor and will adjust schedule (run times) automatically after the optimal schedule has been set.

Hydrozone	Circuits	Plant Material	Winter (Nov., Dec., Jan., Feb., March)	Spring/Fall (April, May, Oct.)	Summer (June, July, Aug., Sept.)
1	1-3, 5	Shrubs-Drip Medium Water Use	4 cycles/month of 20 minutes each	15 cycles/month of 35 minutes each	30 cycles/month of 40 minutes each
2	4	Shrubs-Drip Low Water Use	0 cycles/month of 0 minutes each	15 cycles/month of 30 minutes each	30 cycles/month of 25 minutes each
3	6, 7	Trees-Root Bubblers	0 cycles/month of 0 minutes each	5 cycles/month of 10 minutes each	10 cycles/month of 10 minutes each

Established Landscape Irrigation Schedule

This schedule is based on typical seasonal weather conditions. Specific microclimate conditions and observed water needs, soil, slope, sun exposure, etc. will require adjustment of this schedule in the field to meet the unique needs of each circuit. Controller is to be connected to weather sensor and will adjust schedule (run times) automatically after the optimal schedule has been set.

Hydrozone	Circuits	Plant Material	Winter (Nov., Dec., Jan., Feb., March)	Spring/Fall (April, May, Oct.)	Summer (June, July, Aug., Sept.)
1	1-3, 5	Shrubs-Drip Medium Water Use	0 cycles/month of 0 minutes each	10 cycles/month of 45 minutes each	15 cycles/month of 60 minutes each
2	4	Shrubs-Drip Low Water Use	0 cycles/month of 0 minutes each	10 cycles/month of 30 minutes each	15 cycles/month of 40 minutes each
3	6, 7	Trees-Root Bubblers	0 cycles/month of 0 minutes each	5 cycles/month of 7 minutes each	10 cycles/month of 7 minutes each

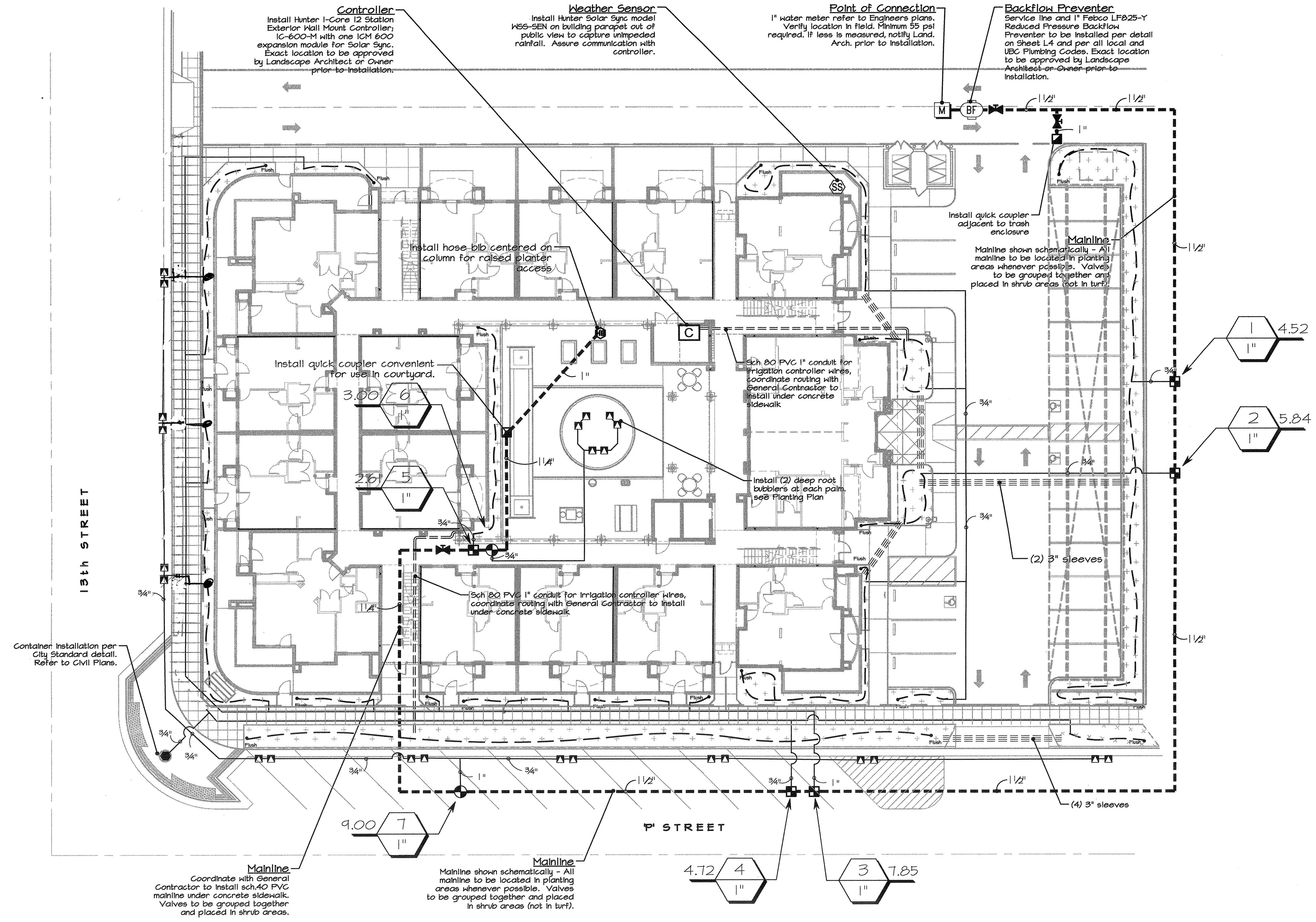
GENERAL IRRIGATION NOTES

1. The contractor shall examine the conditions of the site prior to commencement of work. Any conditions that differ from what is shown on the plans that will affect the installation process shall be brought to the attention of the Landscape Architect and/or owner prior to work. Commencement of work implies acceptance of the conditions of the site.
2. Piping layout is diagrammatic. All irrigation items shown within paved areas are for design clarification only and are to be installed in planting areas where possible. All valves are to be placed in shrub or groundcover areas (not turf).
3. All mainline piping and control wires under paving shall be installed in separate schedule 40 PVC sleeves. Sleeves to be installed at the size as indicated on the plans. If not specified, piping shall be installed in sleeves that are twice the diameter of the pipe. Control wire sleeves shall be of sufficient size for the required number of wires. Provide two (2) piping sleeves at each location and min. one (1) control wire sleeve/conduit where needed. Piping and wiring to be in separate sleeves.
4. All lateral line piping under paving (that is not in a sleeve) shall be Schedule 40 PVC and shall be installed prior to paving.
5. Pipe sizes shall conform to those shown on the drawings with no smaller size substitutions. Larger size substitutions may be approved.
6. All Backflow Prevention Devices and piping between the point of connection and Backflow Preventer shall be installed per local codes. The final location of the Backflow Preventer and the Automatic Controller shall be approved by the Owner's Representative. The contractor is to verify the codes and requirements of all governing agencies. Any discrepancy between requirements and the plans are to be brought to the attention of the Land. Arch. immediately.
7. 120 VAC electrical power source at the controller location shall be provided by electrical contractor. Verify location of controller prior to installation.
8. All irrigation heads shall be set perpendicular to finish grade unless otherwise specified.
9. To be compliant with water efficient landscape ordinance requirements all overhead spray heads shall be placed min. 24" from non-permeable hardscape (sidewalk, curb).
10. Prior to turnover of project, the irrigation contractor shall flush and adjust all irrigation heads and valves for optimum coverage with minimal over spray onto hardscape elements. Drip emitters to be adjusted to provide optimal water to each plant based on specific site conditions and water needs of each plant.
11. It is the responsibility of the irrigation contractor to become familiar with all existing and proposed site elements and grades. The irrigation contractor shall repair, replace, or compensate for all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves and laterals through walls and under paving.
12. The irrigation system design is based on a minimum operating pressure of __ PSI and a maximum flow demand of __ GPM. The irrigation contractor shall verify water pressures prior to installation. Any difference between the pressure indicated on the plans and that at the actual point of connection shall be brought to the attention of the landscape architect immediately.
13. Any obstructions, changes in the project layout, or grade differences not shown on the plan but affecting the operation of the irrigation system are to be brought to the attention of the landscape architect prior to installation. The irrigation contractor shall be responsible for costs associated with correcting irrigation layout if plan is different from the site and he does not bring such differences to the attention of the landscape architect.
14. All irrigation equipment not detailed or specified shall be installed per the manufacturer's recommendations and specifications.
15. All drip tubing shall be installed 3" below grade. Emitters to be located 3" to 6" from the trunk of shrubs and equipped with a bug guard and galvanized tie-down stake.
16. The quantity of multi-outlet emitters as shown on the plan is for the convenience of the contractor. The contractor shall be responsible for installing the quantity of multi-outlets emitters as needed to provide emitters to all plantings as described in the Drip Emitters Per Plant Water Requirements table.
17. Weather sensor/automatic rain shutoff shall be installed on an exposed wall or soffit adjacent to the controller location per manufacturer's specifications. It must be placed to receive unimpeded rain and free from vandalism.
18. An irrigation audit may be needed by the governing jurisdiction before an occupancy permit can be issued. It is the responsibility of the contractor to schedule and pay for the audit. The audit shall be conducted by a certified auditor such as Nathan Houx (209)640-3710 or Andrew Bolt (209)404-1746. The contractor shall be responsible for making revisions to the irrigation in order to pass the audit. If pop-up spray heads are specified for shrub areas, we recommend that the auditor audit the shrub spray prior to planting.

MAINTENANCE SCHEDULE

A regular maintenance schedule shall be set up for this project to provide for the health and growth of the plant material as well as the efficiency of the irrigation system. The following is a minimum list of items that are to be addressed and maintained on a regular basis.

1. The irrigation system shall be maintained on a regular basis to ensure efficiency. All heads, valves, and other equipment shall be checked and adjusted to avoid overspray. All leaks are to be repaired as soon as possible. Replaced and repaired irrigation equipment is to be done with originally specified equipment or equipment with matching precipitation rates.
2. Irrigation emission devices are to be checked and repaired as needed to ensure minimal overspray, no leaks, and efficient operation. Drip emission devices (emitters) may need to be adjusted as the planting matures and the water needs change. Emitters are to be reviewed annually (at a minimum) with replacements provided for plants that may be getting to much or too little water.
3. The controller is to be checked and adjusted as needed to ensure there is minimal run-off while meeting the water requirements of the plants.
4. Turf is to be mowed on a regular basis to keep the height at an appropriate level. Turf areas are also to be de-thatched and aerated approximately every two years.
5. Shrubs and trees are to be pruned to maintain form and remove dead or dying branches. Trees are to be pruned for form and safety and suckering is to be removed on a regular basis.
6. A regular program of weed and pest control is to be established and followed. Pesticides and herbicides are to be applied only when needed and by a state licensed professional.
7. Bark mulch is to be reapplied as needed to ensure full coverage to maintain water retention in the soil and deter weed growth - see plan for depth of mulch.



Hydrozone Table and ETWU

Annual ETo for Firebaugh - 61.7

Ornamental Landscape

Hydro-zone	Valves	Planting Type	Water Use	Plant Factor	Hydrozone Area (square feet)	Percentage of Landscape	PF x HA (square feet)	Type of Irrigation	Irrig. effic.	ETWU
1	3, 4	Shrubs	Low	.4	2,573 sf	52.8	1,029.2	Drip Emitter	.9	43,745.6
2	1, 2, 5	Shrubs	Medium	.5	2,303 sf	47.2	1,151.5	Drip Emitter	.9	48,943.9
Total Ornamental					4,876 sf	100%	2,180.7			92,689.4 gal.

Tree Bubblers

Hydro-zone	Valves	Planting Type	Average gallons/week for six months	Annual gallons of water/tree	Qty. of trees	Annual Gallons	Type of Irrigation
3	6, 7	Trees	15	390	12	4,680.0	Root bubbler

Landscape Area - Ornamental Landscape 4,876 sf

PF x HA - Ornamental Landscape 2,180.7 sf

Ornamental Landscape Irrigation Efficiency 0.90 efficient

Estimated Total Water Usage (ETWU) 92,689.4 gallons

ETWU = (ETo)(.62)((PFxHA/IE)+SLA)
ETWU = 61.7 * .62 *((2180.7)+.9)
ETWU = 38.3 *(2423)
ETWU = 92,689.4

NOTE: The irrigation system as designed results in a water savings of 28.9% less than Maximum Applied Water Allowance.

Maximum Applied Water Allowance (MAWA) 130,568.6 gallons

MAWA = (ETo)(.62)((.7xLA)+(.3xSLA))
MAWA = 61.7 * .62 *(.7 x 4876)
MAWA = 38.3 *(3413.2)
MAWA = 130,568.55

ETWU is less than MAWA - System meets Water Efficient Landscape Ordinance

IRRIGATION LEGEND

Symbol	Manufacturer	Description / Model No.	Nozzle	Radius	PSI	GPM	Detail
Drip tubing line	Approved	1/2" or 5/8" Black Poly Tubing with Flush Cap. Detail X, sheet XX. Each plant shall receive the following emitter or combination of emitters. Contractor shall monitor the water during the maintenance period and make modifications to emitters (GPH) at each plant to ensure that all plants are getting adequate water based on specific microclimate conditions. 4" and 1 Gallon shrubs: 1 - 2 GPH Emitter, Hunter HE-20-B (red) or equal; 2 and 5 Gallon shrubs: 2 - 2 GPH Emitters, Hunter HE-20-B (red) or equal; 15 Gallon shrubs, espaliers: 3 - 2 GPH Emitters, Hunter HE-20-B (red) or equal; 15 Gallon trees: 4 - 2 GPH Emitters, Hunter HE-20-B (red) or equal; 24" Box Trees: 6 - 2 GPH Emitters, Hunter HE-20-B (red) or equal; 36" Box Trees: 6 - 2 GPH Emitters, Hunter HE-20-B (red) equal					
Bubbler	Hunter	RZWS-18-50 Root watering, Tree Bubbler - Two per each tree location			25	1.00 (per tree)	Detail x, sheet xx
●	Approved	Drip tubing connection at container per Detail R, sheet L4.1					
M	Approved	Point of Connection - See the civil engineer's plan and verify in field the location and size of the water meter and service. POC shall meet all governmental code requirements.					
BF	Febco	LF825Y Reduced Pressure Backflow Preventer (lead free) - see plan for size. Detail J, sheet L4.1					
Valve	Hunter	ICV Series Automatic Remote-Control Valve: See Plan for size. Detail I, sheet L4.1					
Drip valve	Hunter	ICZ-101 for 1" drip valve kit and ICZ-151 for 1-1/2" drip valve kit - See plan for size. Detail D, sheet L4.1					
Quick coupler	Hunter	HQ-33DLRC Quick Coupler. Detail G, sheet L4.1					
Gate valve	Nibco	T-113 Gate Valve: Line size. Detail H, sheet L4.1					
HB	Approved	Hose bib on riser. Detail P, sheet L4.1					
C	Hunter	I-Core IC-600-M with one ICM-600 expansion module for 12 Station Exterior Wall-Mount Controller - Include WSS module for Solar-Sync. Detail K, Sheet L4.1					
SS	Hunter	Solar-Sync - model WSS-SEN; Install on wall of trash enclosure away from drip line of trees. Install per manufacturer's specifications. Controller and Solar-Sync to be installed with modules and receivers as needed for operation. Detail L, Sheet L4.1					
– – – –	Approved	Schedule 40 PVC Pressurized Mainline: See Plan for size. Detail M, sheet L4.1					
———	Approved	Schedule 40 PVC Lateral Line: See Plan for size. Detail M, sheet L4.1					
≡≡≡	Approved	Schedule 40 PVC Sleeve (two per location). Detail O, sheet L4.1					
= = = =	Approved	Schedule 80 PVC conduit with sweeps and pull boxes as needed - no single run of conduit to exceed 360° of turns or 300 feet of length without a pull box. See Detail Q, sheet L4.1					

Valve Callout
Valve Number
Valve Flow
Valve Size

NORTH
Scale: 1" = 16'-0"
0' 8' 16' 32'

WATER EFFICIENT LANDSCAPE ORDINANCE

Planting and Irrigation have been designed to be compliant with the Water Efficient Landscape Ordinance. The contractor shall not make substitutions of irrigation product or placement of product or plant species and cultivars without written consent of the Landscape Architect. The contractor shall be responsible for making all modifications to ensure the requirements of the Water Efficient Landscape Ordinance are met if any changes are made. Water use calculations as described above must be met.

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LANDSCAPE ARCHITECTURE PLANNING
www.knoxla.com
151 N. Norlin St., Sonora, CA 95370
(209)532-2856 (209)532-9510 fax

LICENSED LANDSCAPE ARCHITECT — THOMAS W. HOLLOWAY #3589 — STATE OF CALIFORNIA
Signature
Renewal Date
Date

Revisions
Date Modification By

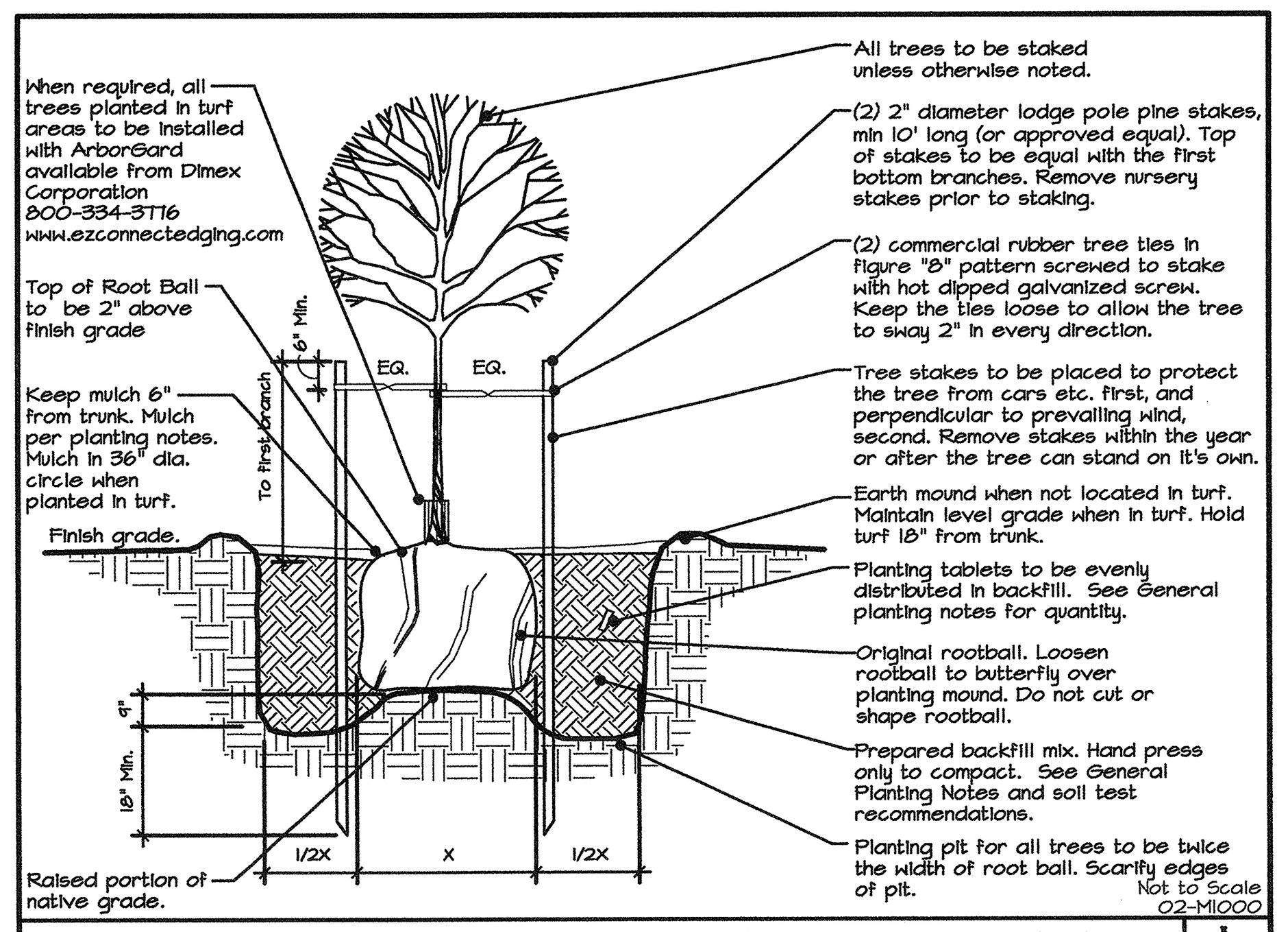
Gateway Seniors Apartments
13th and P Streets
Firebaugh, CA

Housing Authority of Fresno County
1331 Fulton Mall
Fresno, CA 93721
559-443-8400

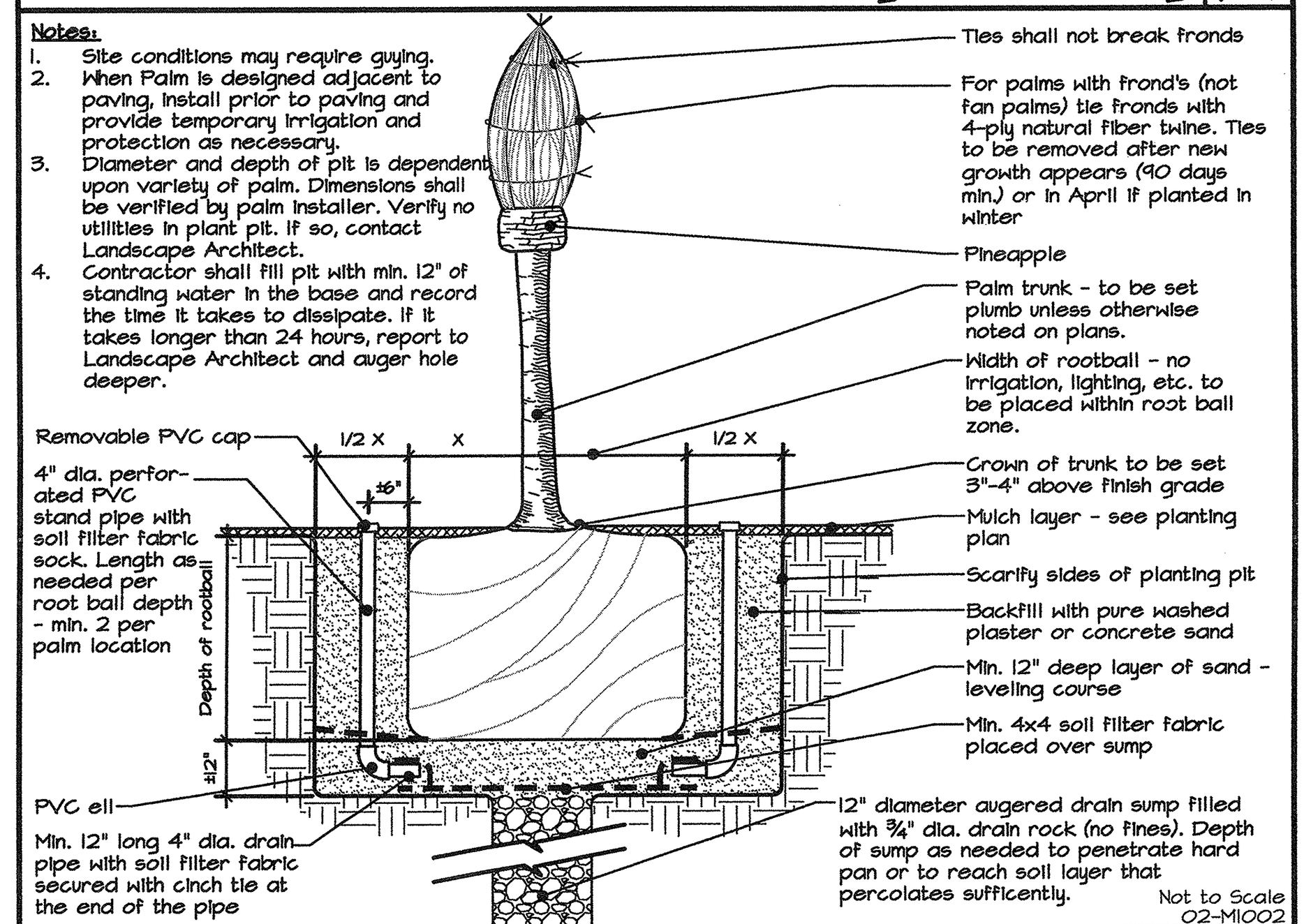
The original size of this drawing is 30" x 42". If the plan is a different size than 30x42 do not scale off of the drawing.

Irrigation Plan

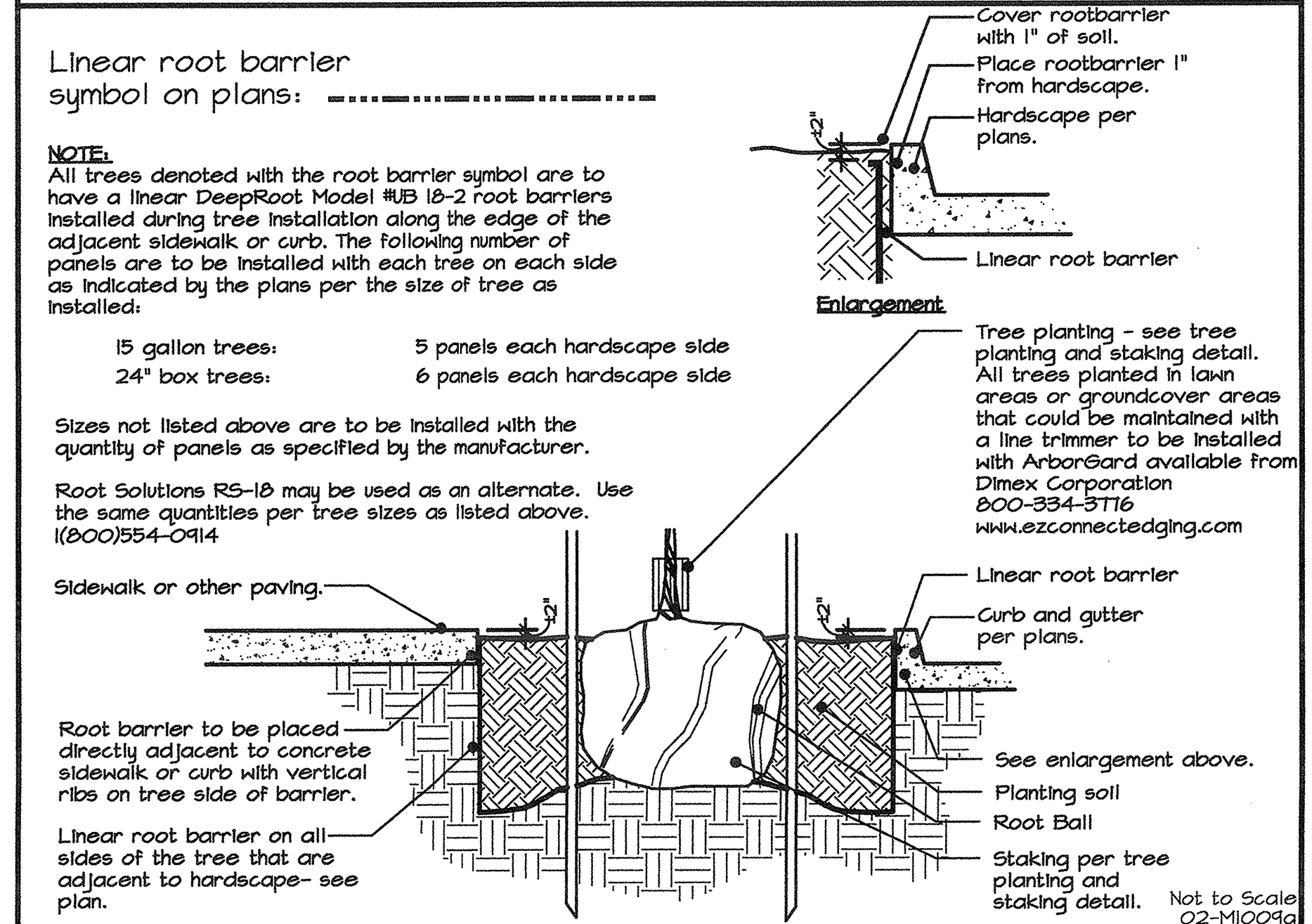
Scale: 1" = 16'-0"
Date: August 11, 2015
Drawn:\Checked: NAV / DFM
Project No.: 15-1741
Sheet Number: L2.1



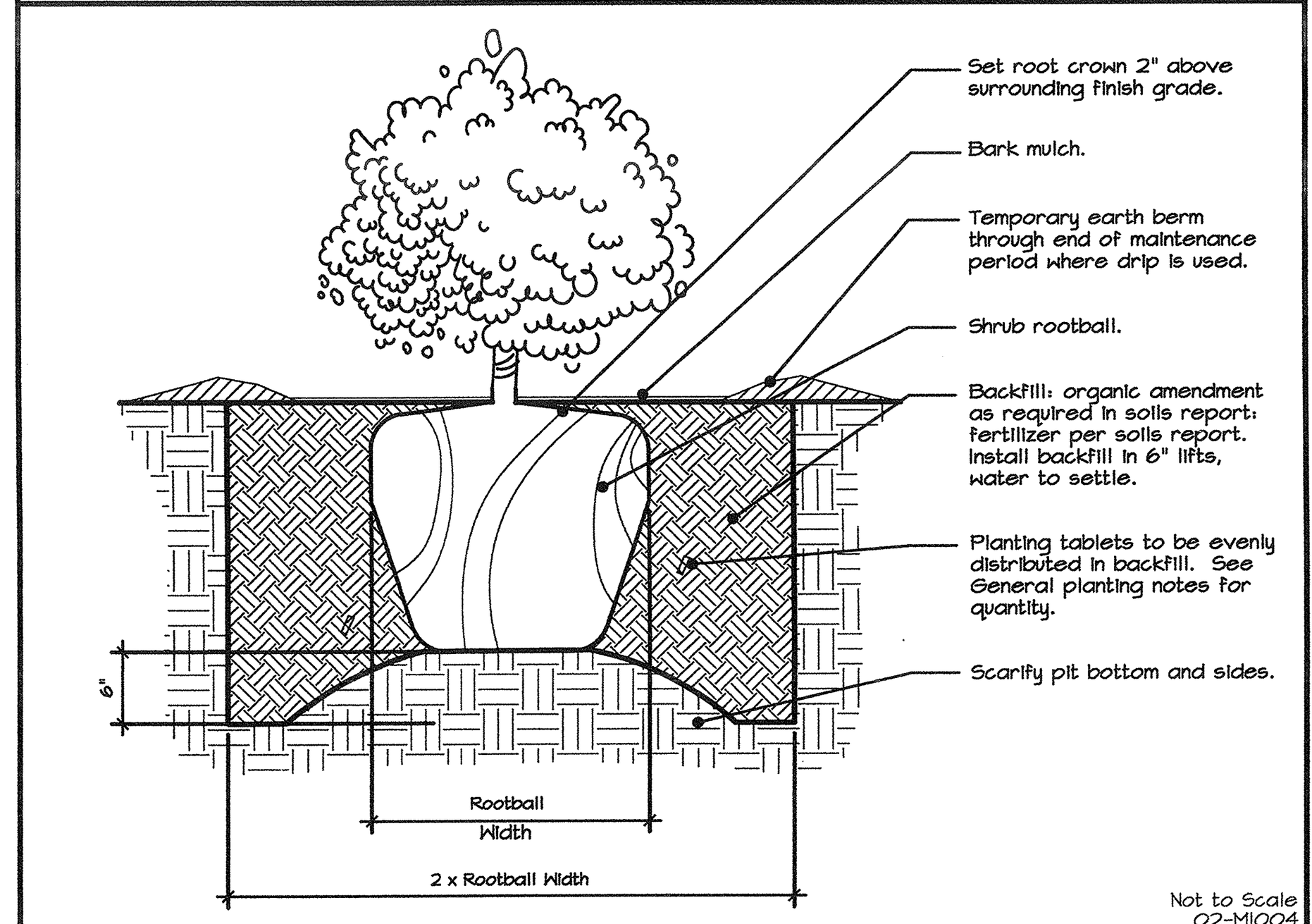
Broadleaf Tree Planting and Staking A



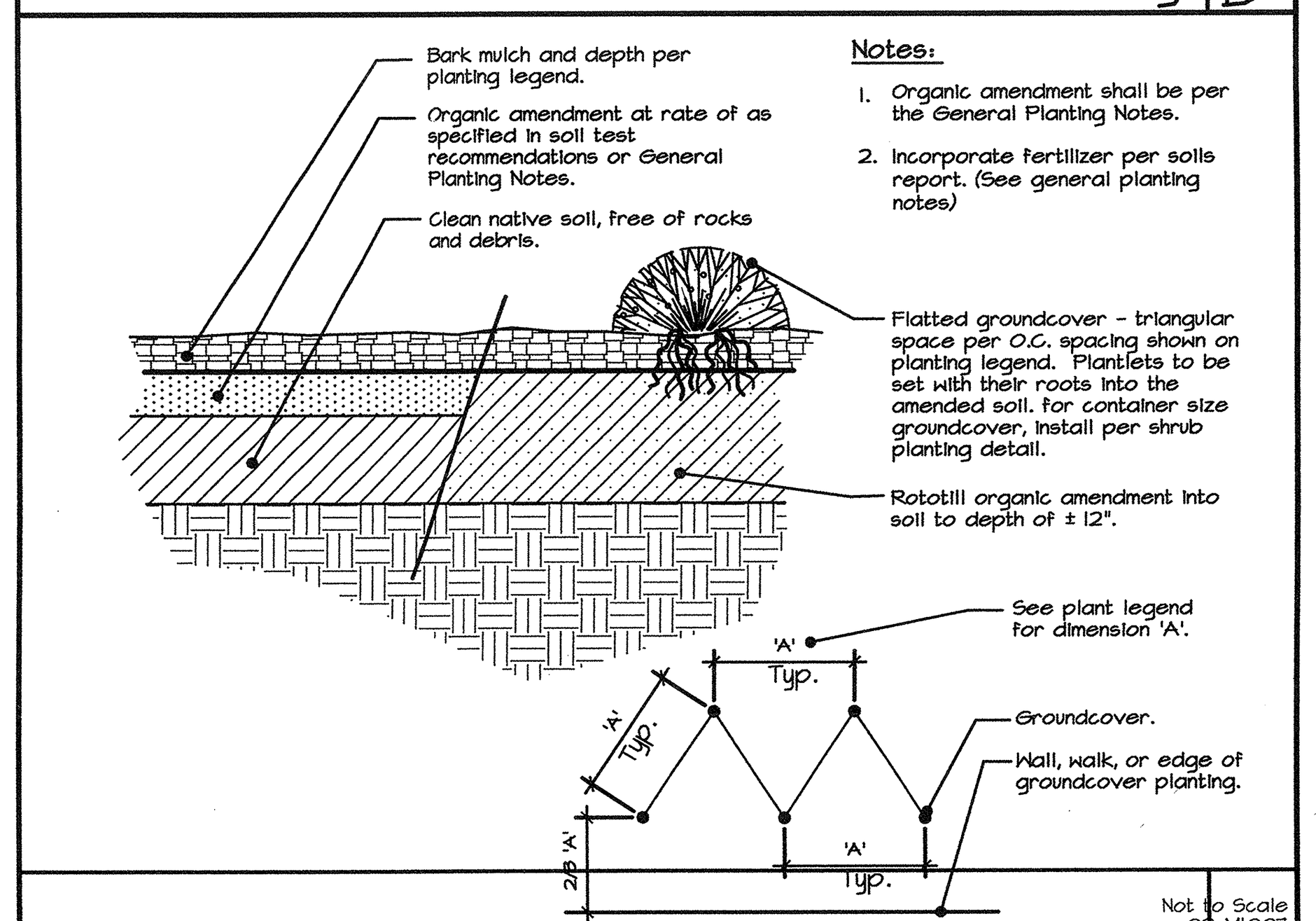
Palm Planting B



Trunk Protection and Linear Root Barrier C



Shrub Planting D



Groundcover Planting with Triangular Spacing E

GENERAL PLANTING NOTES

1. The contractor shall examine the conditions of the site prior to commencement of work. Any conditions that differ from what is shown on the plans that will affect the installation process shall be brought to the attention of the Owner or Land. Arch. prior to work. Commencement of work implies acceptance of the conditions of the site.

2. The contractor shall verify all plant quantities prior to installation. Plant quantities are listed for the convenience of the contractor, number of symbols shall have priority over quantity given.

3. The contractor shall be responsible for the purchasing of all material to meet the specifications of the plans including plants, soil, fertilizer and stakes. The contractor shall also be responsible for the protection of these materials until the project has been completely turned over to the owner.

4. All plant material shall be subject to approval or rejection by the Landscape Architect or Owner's Representative prior to installation. Installed and then rejected material shall be replaced by the contractor at his/her expense.

5. The contractor shall include in the bid for a continued maintenance period of sixty (60) days after completion and acceptance of the project by the Owner or Owner's Rep.

6. Trees to be planted a min. of 3'-0" from edge of paving or walls (unless otherwise stated on plan). All trees in a formal group or in a row shall be matching in size and shape.

7. All vines shall be installed with the nursery stakes removed and runners espaliered to the adjacent wall.

8. The following soil amendments specified are for bidding purposes only. The Landscape Contractor shall provide for a Soil Agronomy Report from an approved soils laboratory and/or any additional specifications provided by the Land. Arch. prior to installation of the plant material. The following amendments shall be incorporated into all planting pits and broadcast into soil to depth of 12" by means of a rototiller or equal per 1000 square feet.
   - 4 cyds nitrogen stabilized organic amendment derived from redwood sawdust, fir sawdust or cedar sawdust.
   - 15 lbs. soil sulfur
   - 15 lbs. 15-15-15 fertilizer

9. All soil preparation shall be installed per the soil agronomy report to be provided and paid for by the Landscape Contractor. The report is to be immediately forwarded to the Land. Arch. upon completion.

10. A nitrogen stabilized commercial-grade mulch with maximum 3/4" dia. chip size shall be uniformly broadcast over all shrub areas (not turf) to a depth as specified on the Planting Legend.

11. The planting pits for trees shall be excavated per the detail on the Landscape Details sheet. The backfill mix for use in all tree and shrub pits shall consist of the following:
   - 6 parts 'on-site' soil
   - 4 parts organic amendment (above)
   - 1 lb./yd. of mix 12-12-12 commercial fertilizer
   - 2 lbs./cu. yd. of mix Iron Sulfate
   - 10 lbs./cu. yd. of mix Agricultural Gypsum

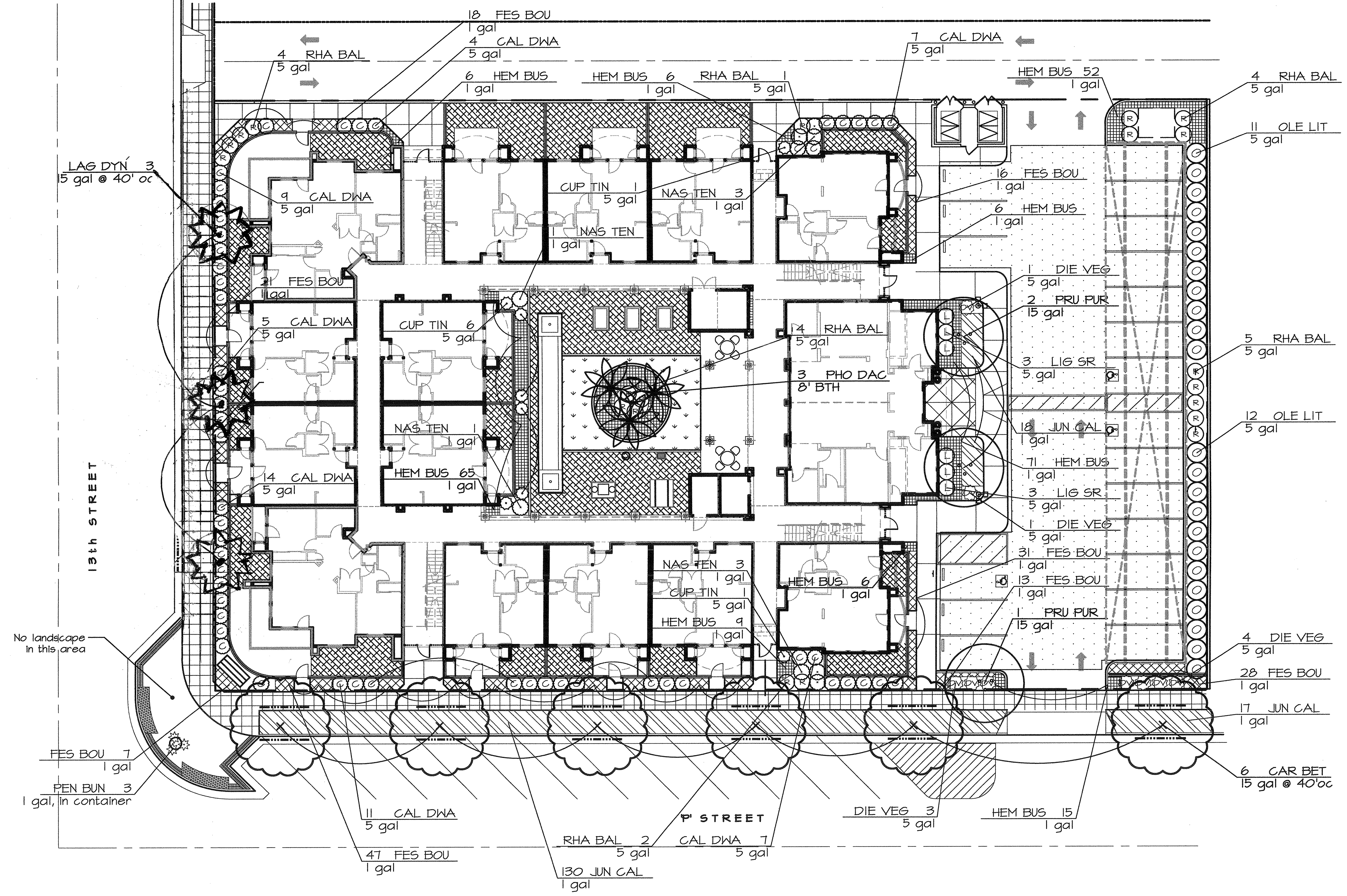
12. Fertilizer tablets shall be BEST, 21 gram fertilizer tablets (20-10-5) placed in all planting pits in quantities as follows:

1 gallon	1 tablet
5 gallon	3 tablets
15 gallon	9 tablets
24"-Box	9 tablets

13. Thirty (30) days after installation all landscape shall be fertilized with 16-6-8 Fertilizer applied at the rate of 6 lbs./1000 sf. Fertilizer application shall be continued thereafter at bi-monthly intervals.

14. For weed control prior to planting, the Landscape Contractor shall thoroughly irrigate the site to promote germination of weed seeds that may be in the soil. After germination has taken place spray the site with Round-Up (or equal) in the amount, and let sit for the time specified by the manufacturer. Reapply Round-Up if needed. After all green weeds have been eradicated, apply Ronstar-G (or equal) Pre-Emergent weed control in the amounts specified by the manufacturer.

15. All plant material to be nursery grown in similar climate. All plant material shall be vigorous and of normal habit of growth and shall be free of girdling roots, sun scald, abrasions, disease, insects, insect eggs and larvae. Plants shall equal or exceed the standards as outlined by the American Standards for Nursery Stock and to applicable California Agriculture Code.



PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	Water Use
CAR BET	Carpinus betulus 'Fastigiata'	European Hornbean	15 gal		6	Medium
LAG DYN	Lagerstroemia indica 'Dynamite'	Dynamite Crape Myrtle	15 gal		3	Low
PRU PUR	Prunus cerasifera 'Purple Pony'	Dwarf Flowering Plum	15 gal		3	Medium
PALM TREES	BOTANICAL NAME	COMMON NAME	CONT		QTY	Water Use
PHO DAC	Phoenix dactylifera	Date Palm	8' BTH		3	Low
SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE		QTY	Water Use
CAL DWA	Callistemon viminalis 'Little John'	Dwarf Weeping Bottlebrush	5 gal		54	Low
CUP TIN	Cupressus sempervirens 'Tiny Tower'	Tiny Tower Italian Cypress	5 gal		8	Low
DIE VEG	Dietes vegeta	African Iris	5 gal		9	Low
LIG SR	Ligustrum x 'Suwannee River'	Suwannee River Privet	5 gal		6	Low
NAS TEN	Nassella tenuissima	Texas Needle Grass	1 gal		8	Low
OLE LIT	Olea europaea 'Little Ollie'	Little Ollie Olive	5 gal		23	Low
PEN BUN	Pennisetum alopecuroides 'Little Bunny'	Little Bunny Fountain Grass	1 gal		3	Low
RHA BAL	Rhaphiolepis indica 'Ballerina'	Ballerina Indian Hawthorn	5 gal		20	Low
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	Water Use
FES BOU	Festuca glauca 'Boulder Blue'	Boulder Blue Fescue	1 gal	24" o.c.	558 sf	Low
HEM BUS	Hemerocallis x 'Little Business'	Little Business Daylily	1 gal	18" o.c.	693 sf	Medium
JUN CAL	Juniperus sabina 'Calgary Carpet'	Calgary Carpet Juniper	1 gal	36" o.c.	1,724 sf	Low
SOD/SEED	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	Water Use
TUR SYN	Turf Synthetic Turf Synlawn	Synthetic Turf	NA		523 sf	None

Non-Living Groundcover

Mulch to be evenly distributed throughout all shrub and groundcover areas (not turf and Fescue) unless otherwise noted on plans. Mulch to be nitrogen stabilized, max. 3/4", recycled material installed at min. 3" depth. Contractor to provide sample for approval prior to installation. "Gorilla-Hair" is not acceptable unless specifically noted for slope areas.

Decomposed Granite, refer to Detail T, Sheet L4.1

Planting Detail References

For Broadleaf Trees, refer to Detail A, Sheet L3.1
For Shrubs, refer to Detail D, Sheet L3.1
For Groundcovers, refer to Detail E, Sheet L3.1

TREE ROOT BARRIERS

All trees denoted with the root barrier symbol are to have a linear DeepRoot Model #UB 18-2 root barriers installed during tree installation along the inside edge of the adjacent sidewalk or curb. The following number of panels are to be installed with each tree on each side as indicated by the plans per the size of tree as installed:

15 gallon trees:	5 panels
24" box trees:	6 panels
36" box trees:	8 panels

Sizes not listed above are to be installed with the quantity of panels as specified by the manufacturer.

Root Solutions RS-18 may be used as an alternate. Use the same quantities per tree sizes as listed above. 1(800)554-0914

See detail C, sheet L3.1

LANDSCAPE AREAS

Turf:	0 sf	0%
Synthetic Turf		
Shrub:	4,616 sf	69.7%
D.G.: (no irrigation)	2,006 sf	30.3%
Total Landscape Area:	6,622 sf	100%

WATER EFFICIENT LANDSCAPE ORDINANCE

Planting and irrigation have been designed to be compliant with the Water Efficient Landscape Ordinance. The contractor shall not make substitutions of irrigation product or placement of product or plant species and cultivars without written consent of the Landscape Architect. The contractor shall be responsible for making all modifications to ensure the requirements of the Water Efficient Landscape Ordinance are met if any changes are made. Water use calculations as described on these plans must be met.

NORTH
Scale: 1" = 16'-0"

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(209)532-2856 (209)532-9510 fax

LICENSED LANDSCAPE ARCHITECT THOMAS W. HOLLOWAY #3589 STATE OF CALIFORNIA
Signature
Renewal Date
Date

Revisions
Date Modification By

Gateway Seniors Apartments
13th and P Streets
Firebaugh, CA

Housing Authority of Fresno County
1331 Fulton Mall
Fresno, CA 93721
559-443-8400

The original size of this drawing is 30" x 42". If the plan is a different size than 30x42 do not scale off of the drawing.

Planting Plan

Scale: 1" = 16'-0"
Date: August 11, 2015
Drawn:\Checked: NAV / DFM
Project No.: 15-1741
Sheet Number: L3.1

Attachment 3.0 to Addendum #4

Pre-bid Walk-Thru
September 24, 2015 10:00 AM
IFB B15003 General Contractor for Firebaugh Multifamily Apartments Project

Name of Company	Address	Name of Attendee	Mobile	E-mail
Bowen Eng. + Env.	4664 South Cedar, Fresno	Erik Bowen	559-233-7464	bowendemo@yahoo.com
CENCAL DEMOLITION	3299 S. CEDAR AVE FRESNO	MIKE GONZALES	559. 291. 3366	MIKEG@CENCALDEMO.COM
Lewis C. Nelson & Sons	3400 McCall, S100, Selma 93662	Michael Lewis on	559-896-1443	estimating@lewisnelson.com
ASHWOOD CONST.	6755 E. KINGS CYN RD #110	DAVE OTERO	559-351-9612	DOTERO@ASHWOODCO.COM
NCECI - Compliance	5410 E. Home Ave/Fresno	George Corona	925-321-0935	GCorona@NCECI.info
TOP ESTATE CONSTRUCTION INC	5013 KIMBALL HILL CIR./STOCKTON	T.K. MORRIS	510-290-2992	topestatebuilder@yahoo.com
B&B Construction	1559 N. McCall Ave Fresno	Allan Braswell	559-313-0529	abraswell@bbcsinc.net
CARPENTERS	1361 N. HOLLBERT FRESNO 93728	ART VALLEZ	559-967-8634	avallez@nccrc.org
R.L. DAVIDSON	7600 N INGRAM	BOB DAVIDSON	435 3303	BOB@RLDAVIDSON.COM
City of Firebaugh	1133 P ST, Firebaugh Ca. 93622	Ben Gallegos	659-2043	publicwork@ci.firebaugh.ca.us

Section 3 Business Preference Explanation

1.0 Introduction. The purpose of this document is to explain to bidders, proposers and quoters (described herein as "bidders"), major issues pertaining to the Section 3 Business Preference program required by the Agency's funding source, the U.S. Department of Housing and Urban Development (HUD). Also, hereinafter, a Section 3 Business Preference will be referred to as "Preference."

2.0 What is Section 3?

2.1 Section 3 is a provision of the Housing and Urban Development Act of 1968, which recognizes that HUD funds are typically one of the largest sources of federal funding expended in communities, including Fresno County, CA. Section 3 is intended to ensure that when a contractor has need to hire additional people as the result of receiving a contract from the Fresno Housing Authority (hereinafter, "the Agency"), preference must be given to low- and very low-income persons residing in Fresno County, CA (Section 3 resident), or Section 3 business concerns.

2.2 The requirements pertaining to Section 3 apply only to purchases and contracts the Agency completes for work--the requirements of Section 3 does not apply to purchases or contracts the Agency completes solely for commodities or equipment; meaning, "no work provided, no Section 3 required."

2.3 Section 3 is race and gender neutral in that preferences are based on income-level and location.

3.0 What does the term "Section 3 resident" mean?

3.1 A "Section 3 resident" is:

3.1.1 a public housing resident of the Agency; or

3.1.2 a low- or very low-income resident of Fresno County, CA

3.1.2.1 Low- and very low-income within Fresno County, CA, is defined as residents within the following income levels for FY 2012 (Median Income = $55,500):

FY 2012 FAMILY INCOME GUIDELINES

Family Size	Very Low Income	Low Income
1	$20,300	$32,450
2	$23,200	$37,050
3	$26,100	$41,700
4	$28,950	$46,300
5	$31,300	$50,050
6	$33,600	$53,750
7	$35,900	$57,450
8	$38,250	$61,150

Income Limit figures are based on FY2012 Fair Market Rent (FMR).

4.0 What does the term "Section 3 business concern" mean?

4.1 A "Section 3 business concern" is a business that can provide evidence that it meets one of the following:

4.1.1 It is 51% or more owned by a Section 3 resident; or

4.1.2 At least 30% of its full time employees include person that are currently Section 3 residents, or within 3 years of the date of first employment with the business concern were Section 3 residents; or

4.1.3 Provides evidence of a commitment to subcontract in excess of 25% of the dollar award of all subcontracts to be awarded to business concerns that meet the qualifications within the preceding 3.1.1 or 3.1.2.

5.0 Is participation in Section 3 optional?

5.1 Except for purchases or contracts solely for commodities and equipment, as a part of the solicitation the Agency will offer all bidders the option of a Preference.

5.2 In response to a competitive solicitation (quotes; bids; or RFP's), bidders are not required to respond to the Agency with a claim of a Preference (meaning, such claim is optional and failure to respond with a claim of a Preference will not cause the bidder to be deemed non-responsive); however, if a bidder does claim a Preference, then the Agency will consider, investigate, and determine the validity of each such claim for a Preference.

5.3 Regardless of whether a bidder claims a Preference in response to a solicitation, the recipient of the award will be required to, "to the greatest extent feasible," implement the requirements of Section 3 during the ensuing awarded contract term.

6.0 Must a contractor receiving an award from the Agency take part in the Section 3 program?

6.1 The short answer is "Yes," as detailed following, each contractor must, "to the greatest extend feasible," take part in the program. Meaning, the bidder should make every effort within their disposal to meet the regulatory Section 3 requirements.

6.1.1 If the contractor wishes, he/she may claim a Preference during the competitive solicitation process (please see document 5.0).

6.1.1.1 Pertaining to Quotations for Small Purchases (QSP's), the Agency will give a Preference of 10% to any quoter deemed to be eligible to receive such Preference ("deemed," based on information the quoter submits in response to the QSP issued). This means that for a quoter deemed eligible to receive a Preference, though he/she, for

example, submits a quote of $10,000, such quote will be considered by the Agency to be $9,000 (10% less), even though, if awarded, the Agency will pay the quoter the full $10,000 originally quoted.

6.1.1.2 Pertaining to Invitations For Bids (IFB's), the Agency will give a Preference based upon the following:

	Preference = lesser of:
When the lowest responsive bid is less than $100,000	10% of that bid or $9,000
When the lowest responsive bid is:	
At least $100,000 but less than $200,000	9% of that bid, or $16,000
At least $200,000 but less than $300,000	8% of that bid, or $21,000
At least $300,000 but less than $400,000	7% of that bid, or $24,000
At least $400,000 but less than $500,000	6% of that bid, or $25,000
At least $500,000 but less than $1,000,000	5% of that bid, or $40,000
At least $1,000,000 but less than $2,000,000	4% of that bid, or $60,000
At least $2,000,000 but less than $4,000,000	3% of that bid, or $80,000
At least $4,000,000 but less than $7,000,000	2% of that bid, or $105,000
$7,000,000 or more	1 1/2% of lowest responsive bid, with no dollar limit

6.1.1.3 Pertaining to Request For Proposals (RFP's) and Request For Qualifications (RFP/RFQ), the Agency will give a Preference based upon the following:

Max Point Value	Preference Factor Type	Preference Factor Description
Section 3 Business Preference Participation. A firm may qualify for Section 3 status as detailed within Attachments D and D-1 (NOTE: A maximum of 15 points awarded).		
15 points	**Objective**	**Category 1**. Business concerns that are 51 percent or more owned by residents of the housing development or developments for which the Section 3-covered assistance is expended, or whose full-time, permanent workforce includes 30 percent of these persons as employees.
11 points	**Objective**	**Category 2.** Business concerns that are 51 percent or more owned by residents of any other housing development or developments managed by the Agency that is expending the Section 3 covered assistance, or whose full-time, permanent workforce includes 30 percent of these persons as employees.
7 points	**Objective**	**Category 3**. Business concerns participating in HUD Youth-build programs being carried out in the metropolitan area in which the Section 3-covered assistance is expended.
5 points	**Objective**	**Category 4**. Business concerns that are 51 percent or more owned by Section 3 residents, or whose permanent, full-time workforce includes no less than 30 percent of Section 3 residents, or that subcontract in excess of 25 percent of the total amount of subcontracts to Section 3 business concerns..
15 points		**Maximum Available Preference Points (Additional)**

6.1.2 **Hiring Efforts to Satisfy the Requirements of Section 3.** Whereas the contracting firm is not a Section 3 Business Concern, the Contractor agrees to comply with Section 3 requirements by providing training and employment opportunities, as detailed within 24 CFR §135.36. The Contractor shall submit a work plan showing number of new hires and trades needed for such new hires to Section 3 persons based on Section 3 priority:

6.1.2.1 Priority 1: Business concerns that are 51 percent or more owned by residents of the housing development or developments for

which the section 3 covered assistance is expended, or whose full-time, permanent workforce includes 30 percent of these persons as employees (category 1 businesses);

6.1.2.2 Priority 2: Business concerns that are 51 percent or more owned by residents of other housing developments or developments managed by the Agency that is expending the section 3 covered assistance, or whose full-time, permanent workforce includes 30 percent of these persons as employees (category 2 businesses); or

6.1.2.3 Priority 3: HUD Youthbuild programs being carried out in the metropolitan area (or nonmetropolitan county) in which the section 3 covered assistance is expended (category 3 businesses).

6.1.2.4 Priority 4: Business concerns that are 51 percent or more owned by section 3 residents, or whose permanent, full-time workforce includes no less than 30 percent section 3 residents (category 4 businesses), or that subcontract in excess of 25 percent of the total amount of subcontracts to business concerns identified in paragraphs (a)(1)(i) and (a)(1)(ii) of this section.

7.0 Be aware that, as detailed within §138.38, the following Section 3 Clause will be a part of every applicable contract the Agency executes, and when a contractor executes the contract he/she is thereby agreeing to comply with the following.

SECTION 3 CLAUSE

As detailed within 24 CFR 135.38, *Section 3 clause*, the following required clauses are hereby included as a part of this contract.

A. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701 u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3 shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

B. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract

certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.

C. The contractor agrees to send to each labor organization or representative of workers with which there is a collective bargaining agreement or other contract or understanding, if any, a notice advising the labor organization or workers representative of the contractor's commitments under this Section 3 Clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

D. The contractor agrees to include this Section 3 Clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

E. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 135.

F. Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

G. With respect to work performed in connection with section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of section 3 and section 7(b) agree to comply with section 3 to the maximum extent feasible, but not in derogation of compliance with section 7(b).

8.0 As detailed within 24 CFR §135, Appendix I, *Examples of Efforts To Offer Training and Employment Opportunities to Section 3 Residents*, as a part of the contract award process, to satisfy the requirements of Section 3 the successful bidder or Contractor will be able to

denote the "efforts" his/her firm will formally commit to implement if he/she is awarded a contract:

8.1 Entering into “first source” hiring agreements with organizations representing Section 3 residents.

8.2 Sponsoring a HUD-certified “Step-Up” employment and training program for section 3 residents.

8.3 Establishing training programs, which are consistent with the requirements of the Department of Labor, for public and Indian housing residents and other section 3 residents in the building trades.

8.4 Advertising the training and employment positions by distributing flyers (which identify the positions to be filled, the qualifications required, and where to obtain additional information about the application process) to every occupied dwelling unit in the housing development or developments where category 1 or category 2 persons (as these terms are defined in §135.34) reside.

8.5 Advertising the training and employment positions by posting flyers (which identify the positions to be filled, the qualifications required, and where to obtain additional information about the application process) in the common areas or other prominent areas of the housing development or developments. For the Agency, post such advertising in the housing development or developments where category 1 or category 2 persons reside; for all other recipients, post such advertising in the housing development or developments and transitional housing in the neighborhood or service area of the section 3 covered project.

8.6 Contacting resident councils, resident management corporations, or other resident organizations, where they exist, in the housing development or developments where category 1 or category 2 persons reside, and community organizations in HUD-assisted neighborhoods, to request the assistance of these organizations in notifying residents of the training and employment positions to be filled.

8.7 Sponsoring (scheduling, advertising, financing or providing in-kind services) a job informational meeting to be conducted by an Agency or contractor representative or representatives at a location in the housing development or developments where category 1 or category 2 persons reside or in the neighborhood or service area of the section 3 covered project.

8.8 Arranging assistance in conducting job interviews and completing job applications for residents of the housing development or developments where category 1 or category 2 persons reside and in the neighborhood or service area in which a section 3 project is located.

8.9 Arranging for a location in the housing development or developments where category 1 persons reside, or the neighborhood or service area of the project, where job applications may be delivered to and collected by a recipient or contractor representative or representatives.

8.10 Conducting job interviews at the housing development or developments where category 1 or category 2 persons reside, or at a location within the neighborhood or service area of the section 3 covered project.

8.11 Contacting agencies administering HUD Youthbuild programs, and requesting their assistance in recruiting HUD Youthbuild program participants for the Agency's or contractor's training and employment positions.

8.12 Consulting with State and local agencies administering training programs funded through JTPA or JOBS, probation and parole agencies, unemployment compensation programs, community organizations and other officials or organizations to assist with recruiting Section 3 residents for the Agency's or contractor's training and employment positions.

8.13 Advertising the jobs to be filled through the local media, such as community television networks, newspapers of general circulation, and radio advertising.

8.14 Employing a job coordinator, or contracting with a business concern that is licensed in the field of job placement (preferably one of the section 3 business concerns identified in part 135), that will undertake, on behalf of the Agency, other recipient or contractor, the efforts to match eligible and qualified section 3 residents with the training and employment positions that the Agency or contractor intends to fill.

8.15 For the Agency, employing section 3 residents directly on either a permanent or a temporary basis to perform work generated by section 3 assistance. (This type of employment is referred to as “force account labor” in HUD's Indian housing regulations. See 24 CFR §905.102, and §905.201(a)(6).)

8.16 Where there are more qualified section 3 residents than there are positions to be filled, maintaining a file of eligible qualified section 3 residents for future employment positions.

8.17 Undertaking job counseling, education and related programs in association with local educational institutions.

8.18 Undertaking such continued job training efforts as may be necessary to ensure the continued employment of section 3 residents previously hired for employment opportunities.

8.19 After selection of bidders but prior to execution of contracts, incorporating into the contract a negotiated provision for a specific number of public housing or other section 3 residents to be trained or employed on the section 3 covered assistance.

8.20 Coordinating plans and implementation of economic development (e.g., job training and preparation, business development assistance for residents) with the planning for housing and community development.

9.0 As detailed within 24 CFR §135, Appendix II, *Examples of Efforts To Award Contracts to Section 3 Business Concerns,* as a part of the contract award process, to satisfy the requirements of Section 3 the successful bidder or Contractor will be able to denote the "efforts" his/her firm will formally commit to implement if he/she is awarded a contract:

9.1 Utilizing procurement procedures for section 3 business concerns similar to those provided in 24 CFR part 905 for business concerns owned by Native Americans (see section III of this Appendix).

9.2 In determining the responsibility of potential contractors, consider their record of section 3 compliance as evidenced by past actions and their current plans for the pending contract.

9.3 Contacting business assistance agencies, minority contractors associations and community organizations to inform them of contracting opportunities and requesting their assistance in identifying section 3 businesses which may solicit bids or proposals for contracts for work in connection with section 3 covered assistance.

9.4 Advertising contracting opportunities by posting notices, which provide general information about the work to be contracted and where to obtain additional

information, in the common areas or other prominent areas of the housing development or developments owned and managed by the Agency.

9.5 For the Agency, contacting resident councils, resident management corporations, or other resident organizations, where they exist, and requesting their assistance in identifying category 1 and category 2 business concerns.

9.6 Providing written notice to all known section 3 business concerns of the contracting opportunities. This notice should be in sufficient time to allow the section 3 business concerns to respond to the proposal invitations or request for proposals.

9.7 Following up with section 3 business concerns that have expressed interest in the contracting opportunities by contacting them to provide additional information on the contracting opportunities.

9.8 Coordinating pre-proposal meetings at which section 3 business concerns could be informed of upcoming contracting and subcontracting opportunities.

9.9 Carrying out workshops on contracting procedures and specific contract opportunities in a timely manner so that section 3 business concerns can take advantage of upcoming contracting opportunities, with such information being made available in languages other than English where appropriate.

9.10 Advising section 3 business concerns as to where they may seek assistance to overcome limitations such as inability to obtain bonding, lines of credit, financing, or insurance.

9.11 Arranging solicitations, times for the presentation of bids, quantities, specifications, and delivery schedules in ways to facilitate the participation of section 3 business concerns.

9.12 Where appropriate, breaking out contract work items into economically feasible units to facilitate participation by section 3 business concerns.

9.13 Contacting agencies administering HUD Youthbuild programs, and notifying these agencies of the contracting opportunities.

9.14 Advertising the contracting opportunities through trade association papers and newsletters, and through the local media, such as community television networks, newspapers of general circulation, and radio advertising.

9.15 Developing a list of eligible section 3 business concerns.

9.16 For the Agency, participating in the "Contracting with Resident-Owned Businesses" program provided under 24 CFR part 963.

9.17 Establishing or sponsoring programs designed to assist residents of public or Indian housing in the creation and development of resident-owned businesses.

9.18 Establishing numerical goals (number of awards and dollar amount of contracts) for award of contracts to section 3 business concerns.

9.19 Supporting businesses which provide economic opportunities to low income persons by linking them to the support services available through the Small Business Administration (SBA), the Department of Commerce and comparable agencies at the State and local levels.

9.20 Encouraging financial institutions, in carrying out their responsibilities under the Community Reinvestment Act, to provide no or low interest loans for providing working capital and other financial business needs.

9.21 Actively supporting joint ventures with section 3 business concerns.

9.22 Actively supporting the development or maintenance of business incubators which assist Section 3 business concerns.

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

ASBESTOS, LEAD-BASED PAINT, AND PCB CAULK SURVEY REPORT 1264 P Street APN 008-075-11 Firebaugh, California

Prepared for:

City of Firebaugh
1133 P Street
Firebaugh, California 93622-2547

Prepared by:

Converse Consultants
222 E. Huntington Drive, Suite 211
Monrovia, California 91016

Converse Project No. 08-11-115-02

February 24, 2011

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

February 24, 2011

Mr. Jose Antonio Ramirez
City of Firebaugh
1133 P Street
Firebaugh, California 93622-2547

Subject: **Asbestos, Lead-Based Paint, and PCB Caulk Survey Report**
1264 P Street
APN 008-075-11
Firebaugh, California
Converse Project No. 08-11-115-02

Mr. Ramirez:

Attached is a copy of the Asbestos, Lead-Based Paint, and PCB Caulk Survey report for the referenced property.

We appreciate the opportunity to be of service to you. If you should have any questions or comments regarding the contents of this report please contact either Heidi Yavornicky at (626) 930-1248 or Norman Eke at (626) 930-1260.

Sincerely,

CONVERSE CONSULTANTS

Heidi L. Yavornicky
Site Surveillance Technician, #08-4319
Lead Sampling Technician, #19759

George Paler
Certified Asbestos Consultant #93-1136
DHS Lead Inspector/Assessor, #I-1487

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Certified Asbestos Consultant, #96-2093

Dist: 2/Hard Copies to Addressee
1/Electronic PDF copy to Addressee

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Table of Contents

Acronyms and Definitions

LIST OF ACRONYMS
For Asbestos and Lead

ACM	Asbestos-Containing Material
ACBM	Asbestos-Containing Building Material
ACCM	Asbestos-Containing Construction Material (California only)
AHERA	Asbestos Hazard Emergency Response Act
CAC	Certified Asbestos Consultant
Cal/EPA	California Environmental Protection Agency
CCR	California Code of Regulations
CSST	Certified Site Surveillance Technician
CFR	Code of Federal Regulations
COC	Chain of Custody
DOSH	California State Division of Occupational Safety & Health
EPA	Environmental Protection Agency
HEPA	High Efficiency Particulate Air
HVAC	Heating, Ventilation, and Air Conditioning
LBP	Lead-Based Paint
LCM	Lead-Containing Material
NEA	Negative Exposure Assessment
NESHAP	National Emission Standards for Hazardous Air Pollutants
NIOSH	National Institute for Occupational Safety and Health
NLLAP	National Lead Laboratory Accreditation Program
PCBs	Poly-Chlorinated Biphenyls
PEL	Permissible Exposure Limit
PLBP	Presumed Lead-Based Paint
PLM	Polarized Light Microscopy
PPE	Personal Protective Equipment
ppm	parts per million
QA/QC	Quality Assurance and Quality Control
RACM	Regulated Asbestos-Containing Material
SJVAPCD	San Joaquin Valley Air Pollution Control District

LIST OF DEFINITIONS
for Asbestos, Lead, and PCBs

Abatement: Asbestos **-** Control/elimination of asbestos through operations and maintenance, repair, enclosure, encapsulation, or removal. Lead - Any set of measures designed to reduce or eliminate lead hazards or lead-based paint for public and residential buildings, but does not include containment or cleaning.

Amended Water: Water to which a surfactant (wetting agent) has been added to increase the ability of the liquid to penetrate ACM and lead dust.

Asbestos: Asbestiform varieties of Chrysotile (serpentine), crocidolite (riebeckite), amosite (cummingtonitegrunerite), anthophyllite tremolite, and actinolite.

Asbestos-Containing Material (ACM): Material or product containing more than one percent (1%) asbestos

Asbestos-Containing Building Material (ACBM): Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building.

Asbestos-Containing Construction Material (ACCM): For California only. Manufactured construction material that contains more than one-tenth of one percent (0.1%) asbestos by weight.

Certificate: Document issued by the California Department of Health Services to an individual who meets the requirements for certification.

Component: Structural element or fixture, such as a wall, floor, ceiling, door, window, molding, trim, trestle, tank, stair, railing, cabinet, or downspout.

Department of Health Services (DHS): The State of California Department of Health Services.

Department of Housing and Urban Development (HUD): The United States Department of Housing and Urban Development.

Deteriorated Lead-Based Paint: Lead-based paint or surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a component.

Division of Occupational Safety and Health (DOSH): The State of California Division of Occupational Safety and Health, formerly known as Cal-OSHA.

City: The City of Firebaugh and its representatives.

Friable: Used in reference to a school building material which, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure.

High Efficiency Particulate Air (HEPA): Filter or system capable of removing particulates of 0.3 microns or larger from air at 99.97 percent or greater efficiency.

Lead-Based Paint: Paint containing a concentration of lead above the HUD definition of 5,000 ppm and/or 1.0 mg/cm^2.

Lead-Containing Material: A non-painted material (typically ceramic) containing a concentration of lead above the HUD definition of 5,000 ppm and/or 1.0 mg/cm^2.

Lead Inspection: Surface by surface investigation to determine the presence of lead-based paint, lead-containing paint, and/or condition assessment.

Lead-Related Construction Work: Construction, alteration, painting, demolition, salvage, renovation, repair, or maintenance of any residential or public building, including preparation and cleanup.

Nonfriable: Used in reference to a school building material which, when dry, may not be crumbled, pulverized, or reduced to powder by hand pressure.

Plasticize: To cover floors, ceilings, and walls with plastic (polyethylene) sheeting.

Poly-Chlorinated Biphenyls (PCBs): A known carcinogen and defined by EPA as a Resource Conservation and Recovery Act (RCRA) hazardous waste.

Presumed Lead-Based Paint: Paint or surface coating affixed to a component in or on a structure, but not tested for lead.

Regulated Area: Area established by the employer (abatement contractor) to demarcate where asbestos work is conducted, and by the adjoining area where debris and waste from such asbestos work accumulate; a work area within which airborne concentrations of asbestos exceed or may exceed (with reasonable possibility) the permissible exposure limit.

XRF Analyzer: Instrument that determines lead concentration in milligrams per square centimeter (mg/cm²) using the principle of x-ray fluorescence (XRF).

Executive Summary

This report presents the results of the survey performed by Converse Consultants (Converse) at the 12-unit apartment complex located at 1264 P Street (APN 008-075-11), in the City of Firebaugh, California. Our scope of services consisted of a survey of suspect asbestos-containing materials (ACM), lead-based paint (LBP) and poly-chlorinated biphenyls (PCB) in caulking. The purpose of the survey was to evaluate the suspect materials that would be impacted by the planned demolition at the property.

The following is a summary of our report. Please refer to the appropriate sections of the report for complete conclusions and recommendations. In the event of a conflict between this summary and the report, or an omission in the summary, the report shall prevail.

Our work was performed in accordance with our Field Sampling Plan dated January 7, 2011 and consisted of the following tasks:

- Performed destructive and non-destructive surveys of the buildings in accordance with AHERA and NESHAP sampling protocols.
- Collected bulk samples of suspect ACMs and submitted samples to a certified laboratory for analysis.
- Performed testing and sampling of suspect LBPs and LCMs.
- Inspected the building (and sampled if appropriate) potential PCB caulk
- Prepared this report.

The survey commenced on Tuesday, February 1, 2011, and was completed on Wednesday, February 2, 2011. Asbestos-containing materials, lead-based paint and lead-containing materials were identified in the buildings. See the appropriate sections of the report for details of our findings starting on Page 4.

There are possibly more potentially asbestos-containing materials not accessed during the survey (i.e., occupied Units #6, #11 and #12). Any new materials not previously sampled should be assumed to contain asbestos, until such time that they can be accessed, sampled and evaluated for asbestos content.

1.0 Purpose and Scope of Services

This report presents the results of the Converse ACM, LBP, and PCB Survey performed at 1264 P Street (APN 008-075-11), Firebaugh, California. The purpose of the survey was to identify suspect ACMs, LBPs, and PCB caulk that would be impacted by the demolition at the Property.

Our work was performed in general accordance with our Field Sampling Plan dated January 7, 2011 and consisted of the following tasks:

- Performed destructive and non-destructive surveys of the buildings
- Collected bulk samples of suspect ACMs and submitted samples to a certified laboratory for analysis.
- Performed testing and sampling of suspect LBPs and LCMs.
- Inspected the building (and sampled if appropriate) potential PCB caulk
- Prepared this report.

George Paler, Certified Asbestos Consultant (CAC #93-1136) and Certified Lead Inspector/Assessor (I-1487), and Heidi Yavornicky, Certified Site Surveillance Technician (#08-4319) and Lead Sampling Technician (#19759) completed the survey. The survey commenced on Tuesday, February 1, 2011, and was completed on Wednesday, February 2, 2011.

2.0 Sampling Methodology

2.1 Asbestos

The subject site consists of a U-shaped apartment building with 12, two bedroom units measuring approximately 700 square feet each. Four units are located on the first floor in each of the north and south wings. Four units are located on the second floor of the west wing above the covered parking for the complex. The building is of typical wood frame, drywall and stucco construction with an asphalt shingle roof. At the time of our survey, 8 of the 12 units were occupied and 4 were unoccupied. The building is built slab on-grade; there is no basement, crawl space, or sub-floor.

Prior to sampling, Converse visually surveyed the interior and exterior of the building for presumed asbestos-containing materials and homogeneous areas (areas that have uniform color, texture, and appearance). Locations inside the building observed to contain suspect ACM were divided by functional space. Suspect materials in the building was divided into friable and non-friable homogenous materials and placed in one of the following EPA categories:

- Surfacing Materials (sprayed or troweled-on materials)
- Thermal Systems Insulations (materials generally applied to various mechanical systems)
- Miscellaneous Materials (any materials which do not fit in the above categories)
- NESHAP Categories (Friable – RACM, Category 1 Non-friable, Category 2 Non-friable)
- Our sampling methodology followed the general guidelines for bulk asbestos sampling as presented in Section 40, Part 763 (AHERA) of the Code of Federal Regulations (CFR) and extended to public buildings by ASHARA in 1994 and 40 CFR Part 61 (NESHAP).

Bulk samples of suspect materials were logged on to chain-of-custody documentation and submitted to a State-certified laboratory for analysis. The samples were analyzed by Polarized Light Microscopy (PLM) in accordance with U.S. EPA Method 600/R-93/116. See the appropriate sections for details of the suspect materials sampled.

Destructive sampling methods were used in unoccupied units within the complex, (specifically Units 2, 5, 7, and 9). Void spaces between walls and floors were accessed, evaluated, and sampled in these units. Spaces above the existing ceilings were also observed in these units and suspect materials were sampled. The unoccupied units in the apartment building were observed to be homogenous to the occupied units. Samples of general building components (i.e., visually identical flooring material and ceiling materials) were assumed to be representative of homogenous materials used

throughout the building/functional space. Non-destructive sampling methods were employed in the occupied units during this survey. Three Units (6, 11, and 12) were not accessible at the time of our survey.

2.2 Lead

Prior to sampling, Converse visually surveyed the interior and exterior of the buildings for painted building components and components suspected of containing lead such as ceramic tiles or plumbing fixtures. Our sampling methodology generally followed the "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" published by the Department of Housing and Urban Development (HUD) in 1995.

Converse used an x-ray fluorescence (XRF) device to measure lead content in painted surfaces and suspect lead-containing materials. The device used was a Niton XLp 300/700-series XRF. The detection level for lead was set at 1.0 mg/cm² as defined by HUD. As no inconclusive readings were obtained on the direct read XRF device, no bulk samples of suspect paint were collected or submitted to a laboratory. Converse surveyed the following interior and exterior components:

- Walls and associated components
- Ceilings
- Doors and associated components
- Window components
- Exterior surfaces and components
- Hand rails and associated framework and components
- Eaves, fascias and rafters
- Gutters
- HVAC units
- Plumbing fixtures
- Ceramic tiles

2.3 PCBs

Converse collected one (1) PCB caulk sample in the parking area of the Property. The caulk appeared to have been from the original construction date (1950s) and therefore suspect for non-liquid PCBs.

3.0 Discussion of Survey Results

The bulk asbestos samples were submitted to the Converse laboratory in Reno, Nevada. The asbestos samples were analyzed for asbestos content by EPA Test Method 600/R-93/116.

3.1 Asbestos

The following suspect materials submitted for laboratory analysis did not detect concentrations of asbestos in any of the samples collected. Refer to Appendix A for further clarification.

Table 1 – Summary of Non-Asbestos-Containing Materials Sampled

Building Material	Location	Square Feet (Approx.)	Comments
Roofing material – black/gray (cores)	All roof areas	11,000	Good condition. Two to three layers observed over wood substrate.
Exterior stucco	Exterior walls, all areas	8,000	Good condition. Generally green/blue/gray in color.
Vapor barrier paper – black	Between exterior facing walls (not adjoining to adjacent units or interior rooms).	8,000	Good condition. Beneath fiberglass.
Blown-in insulation - white	Above ceiling in all units	8,000	Good condition.
12x12 inch tan, streaked vinyl floor tile (VFT) and black mastic	Unit #9 Kitchen (Patch)	20	Good condition.
Vinyl baseboard mastic – brown	Units #2 and #5, restrooms	10	Good condition.
Cloth electric wiring cover – gray/black	Unit #2	2	Good condition. Observed at the circuit breaker box on 2 wires.
12X12 inch tan cream/brown stone pattern VFT and brown mastic	Unit #10 - Kitchen	30	Good condition. Wood substrate.
12X12 inch cream VFT and black mastic	Unit #10 - Kitchen	>10	Good condition. Wood substrate.
Vinyl floor sheeting (VFS) – cream with blue/burgundy and brown mastic	Unit #10 – Bathroom	80	Good condition. Wood substrate.

Based on laboratory analysis, the following materials were found to have asbestos concentrations greater than one percent, and are therefore considered to be an ACM.

Table 2 – Summary of ACMs

Building Material	Percent Asbestos	Friable	Square Feet (Approx.)	Comments
Roof penetration mastic – black/gray	5 – 10 % Chrysotile	No	25	Good condition. Observed at select roof penetrations at vent pipes and on small roof patches at all wings of the building. NESHAP Category: Category 2 non-friable.
HVAC mastic – gray/white	3 – 5 % Chrysotile	No	50	Good condition. Observed at all the HVAC units (on the roof; all buildings; 12 total). NESHAP Category: Category 2 non-friable.
9 X 9 VFT – brown speckled, with black mastic	5 – 15 % Chrysotile (VFT) 1 – 20 % Chrysotile (mastic)	No	6,000	Good condition. Observed in accessed units (Units 2, 5, and 9), typically in bedrooms, Living Room, Kitchen and hallway. Concrete substrate on the bottom floor (Units 1 through 8), wood substrate in the upper floor (Units 9 through 12). Underneath 12x12 brown, speckled VFT and mastic in Unit 5 Kitchen (2 layers). Observed in the following occupied units: Unit 4 – Kitchen, Unit 10 – bedrooms, Living Room and Hallway. Assumed present in inaccessible Units 6, 11, and 12. NESHAP Category: Category 1 non-friable.
Acoustic ceiling – white	1 – 3 % Chrysotile	Yes	6,000	Good condition. Observed in all accessed units except in the kitchens and bathrooms (drywall ceilings). This material is considered friable, NESHAP Category: Regulated Asbestos Containing Material (RACM) for abatement purposes.
Asbestos cement (Transite) vent pipes	Assumed	No	120 lineal feet	Good condition. 12 transite vent pipes observed on the roof and penetrating into each unit. The vent pipes are approximately 3 inches in diameter and 10 feet in length. The vent pipes were not sampled as transite is a known asbestos-containing material. NESHAP Category: Category 1 non-friable.

12x12-inch brown, speckled VFT was observed in most of the occupied units. Because of the presence of the tenants, or lack of access to the unit, the presence and composition of underlying flooring materials could not be ascertained at the time of the survey. For the purpose of this survey, the presence of asbestos-containing flooring materials (9x9 inch VFT and/or black mastic) is assumed to be present under the existing 12x12 VFT until such time as the underlying layers may be examined and/or sampled.

Based on the analytical report, the following materials were found to have asbestos concentrations less than one percent, but greater than 0.1%, and are therefore considered to be ACCM.

Table 3 – Summary of ACCMs

Building Material	Friable	Square Feet (Approx.)	Comments
Drywall walls and ceilings with joint compound	No	4,000 (parking area) and 14,000 (unit interiors)	Good Condition. Asbestos was found in the joint compound in the drywall of the parking area on the interior walls of the units.
Black mastic associated with 12x12 inch brown, speckled VFT	No	4,000	Good Condition. Laboratory analysis did not detect asbestos in the VFT, but did detect low concentrations in the black mastic. Concrete substrate on the bottom floor (Units 1 through 8), wood substrate in the upper floor (Units 9 through 12).

There was no access to occupied units #6, #11 and #12 during the survey.

3.2 Lead

Based on the XRF readings, the following components were found to contain lead above the HUD definition of 1.0 mg/cm^2:

Table 4 – Summary of LBPs

Building Component	Paint Color	Paint Condition	Comments
Exterior			
Wood Hand Rail Frame and Posts	Gray and White	Fair to Peeling	The wood Hand Rail Frame at the northwest and southwest stairways, and associated posts on the Courtyard side were observed to have loose and flaking paint.
Wood Door Frame	White	Intact	The wood Door Frame to the Water Heater Room on the north side, outside the Storage Room.
Wood Wall Top (Hand) Rail	Gray/Brown	Poor	The wood Wall Top (Hand) Rail along the 2nd Floor walkway extending from the outer stairwells on the north and south (street) sides. Portions of the Wall Top Rail were observed to have loose and flaking paint.
Interior			
Ceramic Sinks	White	Intact	All Kitchens and Bathrooms throughout the Building.
Ceramic Tile at Counter Tops and Sink Areas	Tan, Blue, Pink, Brown and Purple	Intact	All Kitchens and Bathrooms throughout the Building.
Ceramic Wall Tile	Blue, Tan, Brown, Gray, and White	Intact	All Kitchen and Bathroom wall areas with ceramic tile throughout the Building, except Unit 7 (negative).

Building Component	Paint Color	Paint Condition	Comments
Wood Baseboard	White	Intact	East side of the Kitchen in Unit 2.

Lead above the HUD definition of 1.0 mg/cm^2 was not detected on any other exterior or interior components of the building. The XRF data table is provided in Appendix B.

3.3 PCBs

Converse collected one (1) sample of caulk from the ceiling of the parking area underneath the west wing of the Building. This sample appeared to be representative of the oldest caulk present at the building. The sample was submitted to EMSL Laboratories for analysis for PCB's.

Laboratory analysis did not detect concentrations of PCBs above the method detection limit of 0.83 mg/kg (U.S. EPA method 3540C/8082 for PCBs). The regulatory level is 50 mg/kg so no further action is needed.

4.0 Conclusions and Recommendations

4.1 Asbestos

The ACMs detected at the Property building must be abated prior to demolition. All abatement activities must be performed by a Cal-OSHA licensed asbestos abatement contractor using methods in accordance with 40 CFR, Part 61 (National Emission Standard for Hazardous Air Pollutants, NESHAP) – Subpart M (Asbestos), 29 CFR 1926.1101 (Federal OSHA Regulations regarding Asbestos), 8 CCR 1529 (California DOSH Regulations regarding Asbestos), and San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) Rule 4002. All asbestos abatement workers must have current 40-hour asbestos worker training documentation, current medical exams and releases, and current respirator fit tests for the use of personal protective equipment (PPE). A notification to the SJVUAPCD must be filed by the asbestos abatement contractor to the SJVUAPCD 10 working days prior to the start of the asbestos abatement project. Friable ACM, such as the spray-applied acoustic ceiling material, must be disposed of as hazardous, asbestos waste. Non-friable ACM, such as floor tile, mastic, and unbroken transite vent pipes may be disposed of as non-hazardous asbestos waste.

In accordance with 8 CCR 1529, ACCM, (materials containing between 0.1% and 1% asbestos) may only be disturbed by workers with the above-listed asbestos training, medical and respirator fit test documentation. As asbestos abatement would be required for this property prior to demolition, ACCMs can be included with the abatement of ACMs and be performed by a licensed asbestos abatement contractor utilizing properly trained workers, work practices, and engineering controls in accordance with 8 CCR 1529. As an alternative, ACCMs may be left in place during site demolition activities provided that the demolition contractor has 40-hour asbestos trained workers, with current medical and respirator training, and using appropriate engineering controls and work practices, such as wet methods, to minimize the release of asbestos fibers to the air. ACCM waste may be disposed of as non-regulated waste.

Converse further recommends that asbestos abatement procedures be monitored by an independent third party or consultant knowledgeable in asbestos abatement procedures and is at a minimum, a Cal-OSHA certified Site Surveillance Technician or Certified Asbestos Consultant.

There are possibly more potentially asbestos-containing materials not accessed during the survey (i.e., occupied Units #6, #11 and #12). Any new materials not previously sampled should be assumed to contain asbestos, until such time that they can be accessed, sampled and evaluated for asbestos content.

Quantities of ACM and ACCM presented in this report are for informational purposes only and not for bid solicitation. The asbestos abatement contractor shall be

responsible for estimating and verifying dimensions and quantities of ACMs and ACCMs to be abated.

4.2 Lead

Damaged (peeling) lead based paint is required to be stabilized prior to demolition activities that may impact the LBPs and/or LCMs in order to minimize exposure to lead by workers and to avoid possible contamination from loose paint chips. Stabilization consists of the removal of loose and peeling LBP (typically by wet scraping) leaving a smooth surface. An encapsulating agent is then applied to the smooth surface to lock down the remaining LBP. Intact painted surfaces do not require stabilization prior to renovation/remodeling or demolition and can be disposed of as non-regulated waste (architectural debris).

Paint stabilization activities must be performed by a state-licensed lead based paint abatement contractor using approved wet methods and engineering controls, and trained and certified lead workers prior to the renovation/remodeling or demolition of the building. The work must be performed in accordance with 8 CCR 1532.1 and Title 17 of the California Department of Health Services. LBP waste must be characterized prior to disposal in order to determine whether the waste constitutes a hazardous waste or non-hazardous waste. LCMs that become damaged, such as the ceramic wall tile, may be removed by a state-licensed lead abatement contractor. Waste generated by stabilization or abatement procedures must be characterized for lead contact in order to determine proper disposal methods.

Converse further recommends that lead paint stabilization or abatement procedures be monitored by an independent third party or consultant knowledgeable in lead abatement procedures and is a California DHS-Certified Lead Project Monitor.

4.3 PCBs

Laboratory analysis did not detect concentrations of PCBs above the method detection limit. Caulk does not require special removal and disposal procedures.

5.0 Confidentiality and Limitations

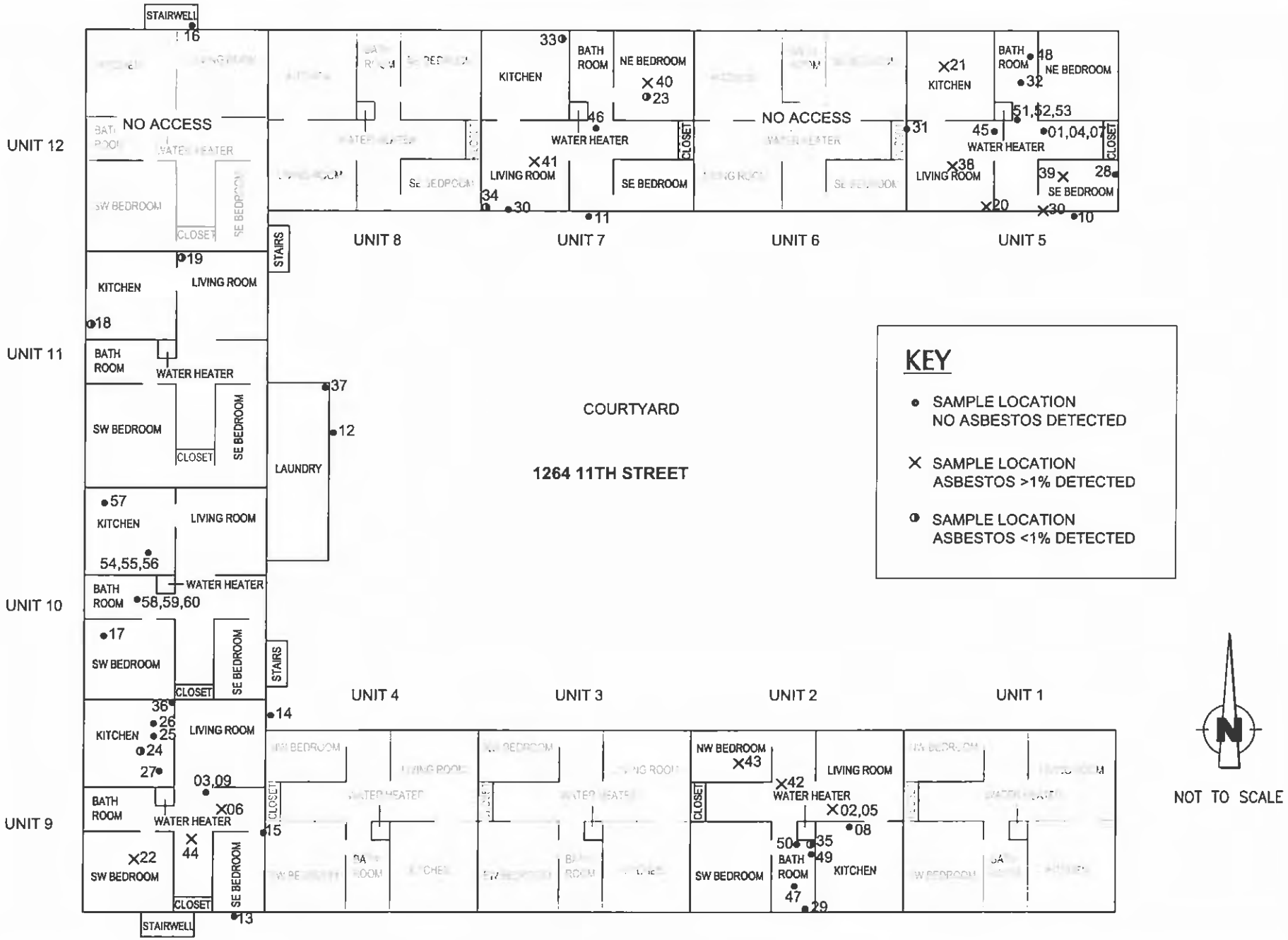
This report has been prepared for the sole benefit and exclusive use of the City of Firebaugh as it pertains to 1264 P Street (APN 008-075-11), Firebaugh, California. Our services have been performed in accordance with generally accepted practices in the environmental sciences. No other warranty, either express or implied, is made.

Converse Consultants is not responsible or liable for any claims or damages associated with the accuracy or completeness of information provided by others. This report should not be regarded as a guarantee that further ACMs, ACCMS, LBPs, or PCBs, beyond that which were or were not detected in our survey, are present at the property. In the event that changes in the nature of the property occur, or additional relevant information about the property is brought to our attention, the conclusions and recommendations contained in this letter report may not be valid unless these changes and additional relevant information are reviewed and the conclusions of this letter report are modified or verified in writing. Reliance on this report by Third Parties shall be at the Third Party's sole risk.

Asbestos

Sample Location Maps, Analytical Report, & Chain of Custody Documentation

Appendix A



SAMPLE LOCATION MAP

Converse Consultants

CLIENT: CITY OF FIREBAUGH
1264 P STREET
FIREBAUGH, CALIFORNIA

Project No. 08-11-115-02

Figure No. 1

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CONVERSE CONSULTANTS
222 E. HUNTINGTON DRIVE, STE. 211
MONROVIA, CALIFORNIA 91016
Account: N/A
Contact: GEORGE PALER
or HEIDI YAVORNICKY
Project No.: 08-11115-02

Date Received: 02/08/11
Date Analyzed: 02/10/11
Date Reported: 02/10/11
Reported To: GEORGE PALER
or HEIDI YAVORNICKY
Submitted By: DELIVERY SERVICE
Report No.: 71-187683
P. O. #: N/A

CITY OF FIREBAUGH

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187683 Black Penetration Mastic Over #5	1264-01	None Detected	10% Cellulose 70% Organic Binders 20% Mineral Cleavages	I F
187684 Black Penetration Mastic Over #2	1264-02	5-10% Chrysotile	65% Organic Binders 25% Mineral Cleavages	I F
187685 Black Penetration Mastic Over #9	1264-03	None Detected	15% Cellulose 70% Organic Binders 15% Mineral Cleavages	I F
187686 White HVAC Material Over #5	1264-04	None Detected	5% Cellulose 45% Carbonate Binders 45% Organic Binders 5% Mineral Cleavages	I F
187687 Tan Mastic Over #2	1264-05	3-5% Chrysotile	55% Carbonate Binders 25% Organic Binders 15% Mineral Cleavages	I F
187688 Black HVAC Material Over #9	1264-06	3-5% Chrysotile	70% Organic Binders 25% Mineral Cleavages	I F
187689A Black Roofing Over #5	1264-07-A	None Detected	20% Glass Fibers 35% Organic Binders 20% Aggregate 25% Mineral Cleavages	I F

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RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187689B Black Roofing Over #5	1264-07-B	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187689C Black Roofing Over #5	1264-07-C	None Detected	20% Glass Fibers 25% Organic Binders 25% Aggregate 30% Mineral Cleavages	I F
187689D Black Roofing Over #5	1264-07-D	None Detected	25% Glass Fibers 25% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187689E Black Felt Over #5	1264-07-E	None Detected	70% Cellulose 25% Organic Binders 5% Mineral Cleavages	I F
187689F Black Felt Over #5	1264-07-F	None Detected	80% Cellulose 15% Organic Binders 5% Mineral Cleavages	I F
187690A Black Roofing Over #2	1264-08-A	None Detected	20% Glass Fibers 35% Organic Binders 20% Aggregate 25% Mineral Cleavages	I F
187690B Black Roofing Over #2	1264-08-B	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187690C Black Roofing Over #2	1264-08-C	None Detected	20% Glass Fibers 25% Organic Binders 25% Aggregate 30% Mineral Cleavages	I F
187690D Black Roofing Over #2	1264-08-D	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187690E Black Felt Over #2	1264-08-E	None Detected	80% Cellulose 15% Organic Binders 5% Mineral Cleavages	I F
187690F Black Felt Over #2	1264-08-F	None Detected	80% Cellulose 15% Organic Binders 5% Mineral Cleavages	I F
187691A Black Roofing Over #9	1264-09-A	None Detected	20% Glass Fibers 35% Organic Binders 20% Aggregate 25% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187691B Black Roofing Over #9	1264-09-B	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187691C Black Roofing Over #9	1264-09-C	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187691D Black Felt Over #9	1264-09-D	None Detected	75% Cellulose 20% Organic Binders 5% Mineral Cleavages	I F
187691E Black Felt Over #9	1264-09-E	None Detected	85% Cellulose 15% Organic Binders	I F
187692 Grey Stucco Outside #5	1264-10	None Detected	<1% Cellulose <1% Glass Fibers 35% Sulfate Binders 65% Mineral Cleavages	I F
187693 Grey Stucco Outside #7	1264-11	None Detected	35% Sulfate Binders 65% Mineral Cleavages	I NF
187694 Grey Stucco Outside Laundry Room	1264-12	None Detected	<1% Cellulose 40% Sulfate Binders 60% Mineral Cleavages	I F
187695 Grey Stucco Outside #9 (Parking)	1264-13	None Detected	25% Sulfate Binders 75% Mineral Cleavages	I NF
187696 Grey Stucco Outside #4	1264-14	None Detected	<1% Cellulose 35% Sulfate Binders 65% Mineral Cleavages	I F
187697 Grey Stucco Outside #9	1264-15	None Detected	35% Sulfate Binders 65% Mineral Cleavages	I NF
187698 Grey Stucco Outside #12 (Stairwell)	1264-16	None Detected	35% Sulfate Binders 65% Mineral Cleavages	I NF
187699A Cream Joint Compound Above Space #2	1264-17-A	None Detected	85% Carbonate Binders 15% Mineral Cleavages	I NF
187699B White Drywall Above Space #2	1264-17-B	None Detected	10% Cellulose <1% Glass Fibers 5% Carbonate Binders 30% Gypsum 55% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187700A Cream Surfacing Above Space #5	1264-18-A	<1% Chrysotile	<1% Cellulose 75% Carbonate Binders 15% Mineral Cleavages 10% Paint	I F
187700B Cream Joint Compound Above Space #5	1264-18-B	None Detected	5% Cellulose 20% Carbonate Binders 10% Gypsum 65% Mineral Cleavages	I F
187700C White Drywall Above Space #5	1264-18-C	None Detected	10% Cellulose <1% Glass Fibers 30% Gypsum 60% Mineral Cleavages	I F
187701A Cream Surfacing Between Space #5	1264-19-A	None Detected	<1% Cellulose 90% Carbonate Binders 10% Mineral Cleavages	I F
187701B Cream Joint Compound Between Space #5	1264-19-B	<1% Chrysotile	70% Carbonate Binders 30% Mineral Cleavages	I F
187701C White Drywall Between Space #5	1264-19-C	None Detected	10% Cellulose <1% Glass Fibers 30% Gypsum 5% Mica 55% Mineral Cleavages	I F
187702A Cream Tan Floor Tile #5 Living Room Near Door	1264-20-A	5-15% Chrysotile	60% Carbonate Binders 15% Organic Binders 10% Mineral Cleavages	I F
187702B Black Mastic #5 Living Room Near Door	1264-20-B	>1-3% Chrysotile	2% Cellulose 80% Organic Binders 15% Mineral Cleavages	I F
187703A Tan Cream Floor Tile #5 Kitchen Area	1264-21-A	None Detected	70% Carbonate Binders 25% Organic Binders 5% Mineral Cleavages	I NF
187703B Tan Cream Floor Tile #5 Kitchen Area	1264-21-B	5-15% Chrysotile	60% Carbonate Binders 15% Organic Binders 10% Mineral Cleavages	I F
187703C Black Mastic #5 Kitchen Area	1264-21-C	>1-3% Chrysotile	2% Cellulose 80% Organic Binders 15% Mineral Cleavages	I F
187704A Cream Tan Floor Tile #9 S.W. Bedroom	1264-22-A	5-15% Chrysotile	60% Carbonate Binders 15% Organic Binders 10% Mineral Cleavages	I F
187704B Black Mastic #9 S.W. Bedroom	1264-22-B	10-20% Chrysotile	70% Organic Binders 10% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187705A Cream Tan Floor Tile #7 N.E. Bedroom Center	1264-23-A	None Detected	70% Carbonate Binders 20% Organic Binders 10% Mineral Cleavages	I NF
187705B Black Mastic #7 N.E. Bedroom Center	1264-23-B	<1% Chrysotile (trace)	5% Carbonate Binders 75% Organic Binders 20% Mineral Cleavages	I F
187706A Tan Cream Floor Tile #9 Kitchen	1264-24-A	None Detected	70% Carbonate Binders 25% Organic Binders 5% Mineral Cleavages	I NF
187706B Black Mastic #9 Kitchen	1264-24-B	<1% Chrysotile	5% Cellulose 1% Synthetic Fibers 69% Organic Binders 25% Mineral Cleavages	I F
187706C Tan Mastic #9 Kitchen	1264-24-C	None Detected	2% Cellulose 78% Organic Binders 20% Mineral Cleavages	I F
187707A Cream Tan Floor Tile #9 Kitchen Center	1264-25-A	None Detected	70% Carbonate Binders 25% Organic Binders 5% Mineral Cleavages	I NF
187707B Black Mastic #9 Kitchen Center	1264-25-B	None Detected	5% Cellulose <1% Glass Fibers 70% Organic Binders 25% Mineral Cleavages	I F
187708A Cream Floor Tile #9 Kitchen N.	1264-26-A	None Detected	70% Carbonate Binders 20% Organic Binders 10% Mineral Cleavages	I NF
187708B Black Mastic #9 Kitchen N.	1264-26-B	None Detected	<1% Cellulose <1% Synthetic Fibers 80% Organic Binders 20% Mineral Cleavages	I F
187709A Cream Floor Tile #9 Kitchen N.	1264-27-A	None Detected	75% Carbonate Binders 20% Organic Binders 5% Mineral Cleavages	I NF
187709B Black Mastic #9 Kitchen N.	1264-27-B	None Detected	5% Cellulose 75% Organic Binders 20% Mineral Cleavages	I F
187710 Black/Brown Vapor Board #2 Bathroom (S. Wall)	1264-28	None Detected	5% Glass Fibers 80% Wood Fibers 15% Organic Binders	I F
187711 Black/Brown Vapor Board #2 Bathroom (S. Wall)	1264-29	None Detected	<1% Glass Fibers 85% Wood Fibers 15% Organic Binders <1% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187712 Black/Brown Vapor Board #7 (S.W. Side Living Room) S. Wall	1264-30	None Detected	85% Wood Fibers 15% Organic Binders	I F
187713A Cream Surfacing Wall #5 Living Room N.W. Corner	1264-31-A	None Detected	70% Carbonate Binders 30% Mineral Cleavages	I NF
187713B White Drywall Wall #5 Living Room N.W. Corner	1264-31-B	None Detected	10% Cellulose 30% Gypsum 60% Mineral Cleavages	I F
187714A White Joint Compound Ceiling #5 Bathroom Center	1264-32-A	None Detected	85% Carbonate Binders 15% Mineral Cleavages	I NF
187714B White Drywall Ceiling #5 Bathroom Center	1264-32-B	None Detected	10% Cellulose 35% Gypsum 55% Mineral Cleavages	I F
187715A Cream Surfacing Ceiling #7 Kitchen N.E. Corner	1264-33-A	None Detected	80% Carbonate Binders 15% Mineral Cleavages 5% Perlite	I NF
187715B Cream Joint Compound Ceiling #7 Kitchen N.E. Corner	1264-33-B	<1% Chrysotile	75% Carbonate Binders 25% Mineral Cleavages	I F
187716A Cream Surfacing Wall #7 S.W. Corner of Unit	1264-34-A	<1% Chrysotile	40% Carbonate Binders 40% Mineral Cleavages 20% Paint	I F
187716B Cream Joint Compound Wall #7 S.W. Corner of Unit	1264-34-B	<1% Chrysotile	80% Carbonate Binders 20% Mineral Cleavages	I F
187717A Cream Surfacing Wall #2 Hallway	1264-35-A	<1% Chrysotile	60% Carbonate Binders 40% Mineral Cleavages	I F
187717B Cream Joint Compound Wall #2 Hallway	1264-35-B	None Detected	65% Carbonate Binders 35% Mineral Cleavages	I NF
187717C White Drywall Wall #2 Hallway	1264-35-C	None Detected	10% Cellulose 35% Gypsum 55% Mineral Cleavages	I F
187718 Cream Powder Wall #9 Kitchen N.E. Corner	1264-36	None Detected	<1% Cellulose 70% Carbonate Binders 30% Mineral Cleavages	I F
187719 White Powder Wall Laundry N.E. Corner	1264-37	None Detected	5% Cellulose 20% Carbonate Binders 25% Gypsum 50% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187720 Cream Acoustic #5 Living Room Center	1264-38	>1-3% Chrysotile	50% Carbonate Binders 27% Mica 20% Mineral Cleavages	I F
187721 Cream Acoustic #5 S.E. Bedroom Center	1264-39	>1-3% Chrysotile	30% Carbonate Binders 20% Mica 47% Mineral Cleavages	I F
187722 Cream Acoustic #7 N.E. Bedroom Center	1264-40	>1-3% Chrysotile	50% Carbonate Binders 27% Mica 20% Mineral Cleavages	I F
187723 Cream Acoustic #7 Living Room Center	1264-41	>1-3% Chrysotile	50% Carbonate Binders 25% Mica 22% Mineral Cleavages	I F
187724 Cream Acoustic #2 Hall Center	1264-42	>1-3% Chrysotile	47% Carbonate Binders 20% Mica 30% Mineral Cleavages	I F
187725 Cream Acoustic #2 N.W. Bedroom Center	1264-43	>1-3% Chrysotile	50% Carbonate Binders 25% Mica 22% Mineral Cleavages	I F
187726 Cream Acoustic #9 Hall Center	1264-44	>1-3% Chrysotile	50% Carbonate Binders 27% Mica 20% Mineral Cleavages	I F
187727 Light Brown Insulation #5 Over Hall	1264-45	None Detected	<1% Glass Fibers 99% Processed Paper <1% Mineral Cleavages	I F
187728 Tan Insulation #7 Over Hall	1264-46	None Detected	95% Processed Paper 5% Mineral Cleavages <1% Paint	I F
187729A Tan Insulation #2 Over Bathroom	1264-47-A	None Detected	1% Animal Fiber 95% Processed Paper 3% Mineral Cleavages 1% Paint	I F
187729B White Insulation #2 Over Bathroom	1264-47-B	None Detected	1% Glass Fibers 95% Mineral Wool 4% Mineral Cleavages	I F
187730 Brown Mastic #5	1264-48	None Detected	5% Talc 75% Organic Binders 20% Mineral Cleavages	I F
187731 Brown Mastic #2 Sink	1264-49	None Detected	<1% Cellulose 5% Talc 75% Organic Binders 20% Mineral Cleavages	I F
187732 Brown Mastic #2 W. Wall	1264-50	None Detected	<1% Cellulose 5% Talc 75% Organic Binders 20% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187733A Brown Wire Insulation Gray Wire	1264-51-A	None Detected	55% Cotton 30% Organic Binders 15% Mineral Cleavages	I F
187733B Black Insulation Gray Wire	1264-51-B	None Detected	85% Organic Binders 15% Mineral Cleavages	I NF
187734A Brown Wire Insulation Black Wire	1264-52-A	None Detected	45% Synthetic Fibers 30% Cotton 20% Organic Binders 5% Mineral Cleavages	I F
187734B Black Insulation Black Wire	1264-52-B	None Detected	80% Organic Binders 20% Mineral Cleavages	I NF
187735A Black Wire Insulation Black Wire	1264-53-A	None Detected	55% Synthetic Fibers 15% Cotton 30% Organic Binders <1% Mineral Cleavages	I F
187735B Black Insulation Black Wire	1264-53-B	None Detected	85% Organic Binders 15% Mineral Cleavages	H NF
187736A Cream Floor Tile Unit #10 Kitchen	1264-54-A	None Detected	<1% Cellulose 70% Carbonate Binders 25% Organic Binders 5% Mineral Cleavages	I F
187736B Brown Mastic Unit #10 Kitchen	1264-54-B	None Detected	<1% Cellulose <1% Carbonate Binders 85% Organic Binders 15% Mineral Cleavages	I F
187737 Cream Floor Tile Unit #10 Kitchen	1264-55	None Detected	70% Carbonate Binders 25% Organic Binders 5% Mineral Cleavages	I NF
187738A Cream Floor Tile Unit #10 Kitchen	1264-56-A	None Detected	75% Carbonate Binders 20% Organic Binders 5% Mineral Cleavages	I NF
187738B Brown Mastic Unit #10 Kitchen	1264-56-B	None Detected	5% Cellulose 5% Carbonate Binders 70% Organic Binders 20% Mineral Cleavages	I F
187739 Cream Floor Tile Unit #10 Kitchen N.W. Side	1264-57	None Detected	<1% Cellulose 50% Carbonate Binders 45% Organic Binders 5% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER (-H) APPEARANCE F-NF
187740A Multi Color Flooring Unit #10 Bathroom	1264-58-A	None Detected	20% Cellulose 5% Glass Fibers 35% Organic Binders 40% Mineral Cleavages	I F
187740B Tan Mastic Unit #10 Bathroom	1264-58-B	None Detected	70% Organic Binders 30% Mineral Cleavages	I NF
187741A Multi Color Flooring Unit #10 Bathroom	1264-59-A	None Detected	25% Cellulose 5% Glass Fibers 45% Organic Binders 25% Mineral Cleavages	I F
187741B Tan Mastic Unit #10 Bathroom	1264-59-B	None Detected	80% Organic Binders 20% Mineral Cleavages	I NF
187742A Multi Color Flooring Unit #10 Bathroom	1264-60-A	None Detected	25% Cellulose 5% Glass Fibers 40% Organic Binders 30% Mineral Cleavages	I F
187742B Tan Mastic Unit #10 Bathroom	1264-60-B	None Detected	75% Organic Binders 25% Mineral Cleavages	I NF

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants follows EPA Method EPA/600/R-93/116 July 1993

Each sample was initially examined under a stereoscopic microscopic at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction signs of elongation and dispersion staining colors Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages. Per the method samples with distinct layers or inhomogenous character have each layer analyzed separately and reported as individual layers. (I – Inhomogeneous, H – Homogeneous, F – Fibrous, NF – Non-Fibrous)

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Root penetration mastic (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-01	Over #5 187683	25 total	Good
1264-02	Over #2 187684	↓	↓
1264-03	Over #9 187685	↓	↓

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	(Good)	Damaged	Significantly Damaged

COMMENTS:

Observed to be black/grey @ select pipe penetrations and as small patches on at bottom of HVAC units. Other pipes have; no more than 25 square feet total.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115- 02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: HVAC Mastic (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-04	Over #5 187686	50 total	Good
1264-05	Over #2 187687	↓	↓
1264-06	Over #9 187688	↓	↓

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	(Good)	Damaged	Significantly Damaged

COMMENTS:

Observed to be gray/white 2" HVAC wraps. 12 total.
Metal substrate.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115- 02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Roof Cove (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-07	Over #5 187689	11,000	Good
1264-08	Over #2 187690	〃	〃
1264-09	Over #9 187691	〃	〃

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment	(Damaged)	Damaged	Significantly Damaged

COMMENTS:

Observed to be black/gray built-up asphalt, layered wood sheathing.

12 3" diameter transite pipe from roof typical (one each unit) - has metal cap.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Exterior Stucco (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-10	Outside #5 187692	8,000 total	Good
1264-11	Outside #7 187693		
1264-12	Outside Laundry room 187694		
1264-13	Outside #9 (Parking) 187695		
1264-14	Outside #4 187696		
1264-15	Outside #9 187697		
1264-16	Outside #12 (Stairwell) 187698		

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	(Low)
Potential for Air Erosion:	High	Moderate	(Low)
Damage Assessment:	(Damage)	Damaged	Significantly Damaged

COMMENTS: Generally painted green/tan/blue exterior of entire apartment complex.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115- 02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Drywall / TC Ceiling, Parking (1264)

Sample Number	Location		Area Sq. Ft.	Condition
1264-17	above Space #2	187699	4,000 GSF	Good
1264-18	above Space # 5	187700	↓	↓
1264-19	Between Space #7 ~~#8~~	187701	↓	↓

Friability:	Friable	~~Non-Friable~~	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment:	~~Good~~	Damaged	Significantly Damaged

COMMENTS:

Some wet days, less than 20 ϕ.
In party Area.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: 9x9 VFT Brown Speckled (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-20	#5 Living room new Door 187702	6,000 +/-	Good
1264-21*	#5 Kitchen Area 187703	↓	↓
1264-22	#9 SW Bedroom 187704		

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion.	High	Moderate	Low
Damage Assessment:	Damaged	Damaged	Significantly Damaged

COMMENTS:

Sample 1264-21 # Below 12x12 VFT Brown speckled (Sampled seperate from 1264-23 & 1264-24).

Grand Floors - Concrete Substrate

#9 - Wood Substrate

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: 12 X 12 Brown Speckled VFT (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-23	#7 NE Bedroom Corner 187705	4,000 HM	Good
1264-24	#9 Kitchen 187706	↓	↓

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	Good	Damaged	Significantly Damaged

COMMENTS:

See sample # 1264-21 for top layer (also 12 X 12 Brown speckled VFT) that was sample with 9 X 9 Brown speckled VFT.

Concrete substrate (Bottom floors)

Wood substrate (#9)

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: 12X12 Tan Streaked VFT (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-25	#9 Kitchen Center 187707	20 total	Good
1264-26	#9 Kitchen N 187708	↓	↓
1264-27	↓ 187709	↓	↓

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	(Low)
Potential for Air Erosion:	High	Moderate	(Low)
Damage Assessment:	(Good)	Damaged	Significantly Damaged

COMMENTS: In #9 only Patch in Kitchen.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Vapor Barrier Paper (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-28	#5 E wall 187710	8,000+/-	Good
1264-29	#2 Bathroom (S wall) 187711	↓	↓
1264-30	#7 (SW Side Living room S-wall) 187712	↓	↓

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	(Severe)	Damaged	Significantly Damaged

COMMENTS: Between Exterior facing walls (not adjoining to adjacent units or interior rooms). Beneath fiberglass.

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Drywall / JC walls + ceilings (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-31	Wall #5 Living Room NW corner 187713	14,000 total 6,000 GSP	Good
1264-32	Ceiling #5 Bathroom Center 187714		
1264-33	Ceiling #7 Kitchen NE corner 187715		
1264-34	Wall #7 SW corner of unit 187716		
1264-35	Wall #2 Hallway 187717		
1264-36	Wall #9 Kitchen NW corner 187718		
1264-37	Wall Laundry NE corner 187719		

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	(Low)
Potential for Air Erosion:	High	Moderate	(Low)
Damage Assessment:	(Good)	Damaged	Significantly Damaged

COMMENTS:

All walls, all Kitchen/Bathroom ceilings.

#7 - some texture cut over drywall (new)

CHAIN OF CUSTODY

Relinquished By: [signature] Time: 2/7/11 Date: For overnight mail

Received By: _____ Time: _____ Date: _____

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

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BULK SAMPLE LOG

Project Name: City of Firebaugh — Collected By: HLY/GJP

Project No.: 08-11-115-07 — Date: February 1, 2011

HOMOGENEOUS MATERIAL: Acoustic Ceiling (1764)

Sample Number	Location	Area Sq. Ft.	Condition
1264-38	#5 Living room Center 187720	600 total	Good
1264-39	#5 SE Bedroom Center 187721		
1264-40	#7 NE Bedroom Center 187722		
1264-41	#7 Living room Center 187723		
1264-42	#2 Hall Center 187724		
1264-43	#2 NW Bedroom Center 187725		
1264-44	#9 Hall Center 187726		

Friability:	Friable	~~Non-Friable~~	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion	High	Moderate	
Damage Assessment:	~~Good~~	Damaged	Significantly Damaged

COMMENTS:

All Ceilings except Kitchen / Bathroom. in units

CHAIN OF CUSTODY

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Relinquished By:		Time:	Date:
Received By:		Time:	Date:

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Blown-in Insulation (1764)

Sample Number	Location	Area Sq. Ft.	Condition
1764-45	#5 over Hall 187727	8,000 total	Good
1764-46	#7 over Hall 187728		
1764-47	#2 over Bathroom 187729		

Friability: Friable / (Non-Friable)
Potential for Contact with Material: High / Moderate
Influence of Vibration: High / Moderate
Potential for Air Erosion. High / Moderate
Damage Assessment: (Good) / Damaged / (Low) (Moderate) (High) Significantly Damaged

COMMENTS:

Above ceiling in units.
Attic above ceilings have wood.

CHAIN OF CUSTODY

Relinquished By: [signature]
Received By: [signature] Time: 2/7/11 Date: For overnight mail
Relinquished By: _____ Time: _____ Date: _____
Received By: _____ Time: _____ Date: _____

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115- 02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Brown mastic under vinyl Baseboard (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-48	#5 187730.	10 total	Good
1264-49	#2 sink 187731		
1264-50	#2 w wall 187732		

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion.	High	Moderate	
Damage Assessment:	Good	Damaged	Significantly Damaged

COMMENTS:

In restroom of #5 & #2.

CHAIN OF CUSTODY

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Received By: _____

Time: 2/7/11
Time: _____
Time: _____
Time: _____

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Date: _____
Date: _____
Date: _____

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115- 02 Date: February 1, 2011

HOMOGENEOUS MATERIAL: Cloth eletric wiring Cover

Sample Number	Location	Area Sq. Ft.	Condition
1264-S1	Gray wire 187733	2 total	Good
1264-S2	Black wire 187734	↓	↓
1264-S3	↓ 187735	↓	↓

Friability:	Friable	(Non Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment:	(Good)	Damaged	Significantly Damaged

COMMENTS:

Observed in unit #5 (2 wires)
@ Circuit Breaker box.

* Mercury - switch @ #2

CHAIN OF CUSTODY

Relinquished By: _____ Time: 2/7/11 Date: For overnight mail
Received By: _____ Time: _____ Date: _____
Relinquished By: _____ Time: _____ Date: _____
Received By: _____ Time: _____ Date: _____

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Cream Brown Stone 12x12 VFT (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-54	Unit #10 Kitchen 187736	30 sq ft	Good
1264-55	187737	↓	↓
1264-56	187738	↓	↓

Friability:	Friable	~~Non-Friable~~	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment:	~~Good~~	Damaged	~~Slow~~ Significantly Damaged

COMMENTS:

Approximately ½ sf flooring in Unit #10.

Kitchen

CHAIN OF CUSTODY

Relinquished By:		Time: 2/7/11	Date: For overnight mail
Received By:		Time:	Date:
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Received By:		Time:	Date:

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115- 02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Cream 12x12 VFT (1264) - Patch

Sample Number	Location	Area Sq. Ft.	Condition
1264-57	Unit 10 Kitchen NW side 197739	7 lo	bad

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment.	Good	Damaged	Significantly Damaged

COMMENTS:

Less than 10 ø. Patch in kitchen, Unit 10. Black mastic.

CHAIN OF CUSTODY

Relinquished By:		Time: 2/7/11	Date: for overnight mail
Received By:		Time:	Date:
Relinquished By:		Time:	Date:
Received By:		Time:	Date:

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Cream with Burgundy/Blue VFS (1264)

Sample Number	Location	Area Sq. Ft.	Condition
1264-58	Unit 10 Bathroom 187740	80 sqft	Good
1264-59	187741	↓	↓
1264-60	187742	↓	↓

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment:	Good	Damaged	Significantly Damaged

COMMENTS:

CHAIN OF CUSTODY

Relinquished By: _____ Time: 2/7/11 Date: For Overnight mail

Received By: _____ Time: 5 Date: _____

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

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Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

Address 1264 P Str. 60 Samples

Sample #	1st Analysis	Duplicate	Replicate
187690 A+ B	N. D.	N. D.	
187700 A	<1% Chry	<1% Chry	<1%Chry
187700 B+C	N.D.	N.D.	N.D.
187710	N.D.	N.D.	
187720	>1-3% Chry	>1-3% Chry	>1-3%Chry
187730	N.D.	N.D.	
187740	N.D.	N.D.	

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2/28/2011

Lead
XRF Data Table

Appendix B

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/1 - 2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1264 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC
1	2/1/2011 9:24	SHUTTER_CAL										3.08
2	2/1/2011 9:41	CALIBRATION									Negative	0.9
3	2/1/2011 9:42	CALIBRATION									Positive	1
4	2/1/2011 9:42	CALIBRATION									Negative	0.9
5	2/1/2011 10:14	DOOR	WOOD	SOUTH	PEELING	ORANGE	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	0.13
6	2/1/2011 10:15	DOOR FRAME	WOOD	SOUTH	FAIR	GRAY	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	0.5
7	2/1/2011 10:17	WALL	STUCCO	SOUTH	FAIR	GRAY	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	0
8	2/1/2011 10:17	EAVES	STUCCO	SOUTH	FAIR	GRAY	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Null	0
9	2/1/2011 10:19	EAVES	STUCCO	SOUTH	FAIR	GRAY	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	0.01
10	2/1/2011 10:20	FASCIA	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	0.01
11	2/1/2011 10:21	GUTTER	METAL	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	-0.35
12	2/1/2011 10:22	DOOR	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	UNIT 6	EXTERIOR	Negative	0.09
13	2/1/2011 10:23	DOOR FRAME	WOOD	SOUTH	CRACKED	GRAY	1264 P STREET	FIRST	UNIT 6	EXTERIOR	Negative	0
14	2/1/2011 10:26	EAVES	METAL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	0
15	2/1/2011 10:27	EAVES	STUCCO	NORTH	INTACT	GRAY	1264 P STREET	FIRST	UNIT 5	EXTERIOR	Negative	0
16	2/1/2011 10:29	DOOR	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	UNIT 7	EXTERIOR	Negative	0
17	2/1/2011 10:30	DOOR FRAME	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	UNIT 7	EXTERIOR	Negative	0
18	2/1/2011 10:34	WALL	STUCCO	NORTHWEST	INTACT	GRAY	1264 P STREET	FIRST		EXTERIOR	Negative	0
19	2/1/2011 10:35	EAVES	STUCCO	NORTHWEST	INTACT	GRAY	1264 P STREET	FIRST		EXTERIOR	Negative	0
20	2/1/2011 10:36	DOOR FRAME	WOOD	NORTHWEST	FAIR	GRAY-GREEN	1264 P STREET	FIRST		EXTERIOR	Negative	0.06
21	2/1/2011 10:37	DOOR FRAME WALL	WOOD	NORTHWEST	FAIR	GRAY-GREEN	1264 P STREET	FIRST		EXTERIOR	Negative	0.05
22	2/1/2011 10:38	FASCIA	METAL	NORTHWEST	INTACT	WHITE	1264 P STREET	FIRST		EXTERIOR	Negative	0.01
23	**2/1/2011 10:40**	**HAND RAIL FRAME**	**WOOD**	**NORTHWEST**	**PEELING**	**GRAY**	**1264 P STREET**	**FIRST**	**2ND FLOOR LANDING**	**EXTERIOR**	**Positive**	**1.1**
24	2/1/2011 10:41	FASCIA	METAL	NORTHWEST	POOR	GRAY	1264 P STREET	FIRST	2ND FLOOR LANDING	EXTERIOR	Negative	0.4
25	2/1/2011 10:43	DOOR	WOOD	NORTHWEST	INTACT	WHITE	1264 P STREET	FIRST	WATER HTR RM	EXTERIOR	Negative	0.04
26	**2/1/2011 10:44**	**DOOR FRAME**	**WOOD**	**NORTHWEST**	**INTACT**	**WHITE**	**1264 P STREET**	**FIRST**	**WATER HTR RM**	**EXTERIOR**	**Positive**	**2**
27	2/1/2011 10:50	DOOR FRAME	WOOD	WEST	PEELING	WHITE	1264 P STREET	FIRST	STORAGE ROOM	EXTERIOR	Negative	0
28	2/1/2011 10:51	WALL	STUCCO	WEST	POOR	GRAY-GREEN	1264 P STREET	FIRST	STORAGE ROOM	EXTERIOR	Negative	0.01
29	2/1/2011 10:52	WINDOW PANEL	WOOD	WEST	INTACT	GRAY-GREEN	1264 P STREET	FIRST	STORAGE ROOM	EXTERIOR	Negative	0
30	2/1/2011 10:53	WINDOW BARS	METAL	WEST	INTACT	WHITE	1264 P STREET	FIRST	STORAGE ROOM	EXTERIOR	Negative	0
31	2/1/2011 10:53	WINDOW PANEL	WOOD	WEST	INTACT	WHITE	1264 P STREET	FIRST	STORAGE ROOM	EXTERIOR	Negative	0
32	2/1/2011 10:54	STAIR FRAME	METAL	SOUTHWEST	INTACT	WHITE	1264 P STREET	FIRST	STORAGE ROOM	EXTERIOR	Negative	0.03
33	2/1/2011 10:57	DOOR FRAME	WOOD	SOUTHWEST	INTACT	GRAY	1264 P STREET	FIRST		EXTERIOR	Negative	0.08
34	2/1/2011 10:58	DOOR FRAME WALL	PLASTER	SOUTHWEST	INTACT	WHITE	1264 P STREET	FIRST		EXTERIOR	Negative	0.02
35	2/1/2011 10:59	FASCIA	METAL	SOUTHWEST	FAIR	WHITE	1264 P STREET	FIRST	2ND FLOOR LANDING	EXTERIOR	Negative	0.01
36	**2/1/2011 11:00**	**HAND RAIL FRAME**	**WOOD**	**SOUTHWEST**	**PEELING**	**GRAY/WHITE**	**1264 P STREET**	**FIRST**	**2ND FLOOR LANDING**	**EXTERIOR**	**Positive**	**1.4**
37	2/1/2011 11:01	FASCIA	WOOD	SOUTHWEST	POOR	GRAY	1264 P STREET	FIRST	2ND FLOOR LANDING	EXTERIOR	Negative	0.01

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City of Firebaugh
1264 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC
38	2/1/2011 11:02	FLOOR FASCIA	METAL	SOUTHWEST	POOR	GRAY	1264 P STREET	FIRST	2ND FLOOR LANDING	EXTERIOR	Negative	0.6
39	2/1/2011 11:04	GUTTER	METAL	SOUTHWEST	INTACT	WHITE	1264 P STREET	FIRST	UNIT 4	EXTERIOR	Negative	0.01
40	2/1/2011 11:04	FASCIA	METAL	SOUTHWEST	INTACT	WHITE	1264 P STREET	FIRST	UNIT 4	EXTERIOR	Negative	0
41	2/1/2011 11:07	EAVES	STUCCO	SOUTHWEST	INTACT	GRAY	1264 P STREET	FIRST	UNIT 2	EXTERIOR	Negative	0
42	2/1/2011 11:07	WALL	STUCCO	SOUTH	INTACT	GRAY	1264 P STREET	FIRST	UNIT 2	EXTERIOR	Negative	0
43	2/1/2011 11:08	DOOR FRAME	WOOD	SOUTH	FAIR	GRAY	1264 P STREET	FIRST	UNIT 2	EXTERIOR	Negative	0.22
44	2/1/2011 11:09	DOOR	WOOD	SOUTH	FAIR	ORANGE	1264 P STREET	FIRST	UNIT 2	EXTERIOR	Negative	0.09
45	2/1/2011 11:11	WALL	STUCCO	SOUTH	FAIR	GRAY	1264 P STREET	FIRST	UNIT 2 BACKYD	EXTERIOR	Negative	0
46	2/1/2011 11:12	EAVES	STUCCO	SOUTH	INTACT	GRAY	1264 P STREET	FIRST	UNIT 2 BACKYD	EXTERIOR	Negative	0
47	2/1/2011 11:13	FASCIA	METAL	SOUTH	PEELING	WHITE	1264 P STREET	FIRST	UNIT 2 BACKYD	EXTERIOR	Negative	0
48	2/1/2011 11:17	WALL	STUCCO	WEST	INTACT	GRAY	1264 P STREET	SECOND	COURTYD SIDE	EXTERIOR	Negative	0.01
49	2/1/2011 11:18	LOUVRES	WOOD	WEST	FAIR	BROWN	1264 P STREET	SECOND	COURTYD SIDE	EXTERIOR	Negative	0
50	2/1/2011 11:20	WALL TOP RAIL	WOOD	WEST	POOR	WHITE	1264 P STREET	SECOND	COURTYD SIDE	EXTERIOR	Negative	0
51	**2/1/2011 11:21**	**WALL TOP RAIL**	**WOOD**	**WEST**	**POOR**	**GRAY/BROWN**	**1264 P STREET**	**SECOND**	**COURTYD SIDE**	**EXTERIOR**	**Positive**	**2.2**
52	2/1/2011 11:22	HAND RAIL	WOOD	SOUTHWEST	POOR	WHITE	1264 P STREET	SECOND	COURTYD SIDE	EXTERIOR	Negative	0
53	2/1/2011 11:22	HAND RAIL POSTS	WOOD	SOUTHWEST	FAIR	WHITE	1264 P STREET	SECOND	COURTYD SIDE	EXTERIOR	Negative	0
54	2/1/2011 11:23	HAND RAIL O.FRAME	WOOD	SOUTHWEST	POOR	WHITE	1264 P STREET	SECOND	COURTYD SIDE	EXTERIOR	Negative	0
55	2/1/2011 11:23	HAND RAIL I.FRAME	WOOD	SOUTHWEST	INTACT	WHITE	1264 P STREET	SECOND	COURTYD SIDE	EXTERIOR	Negative	0
56	2/1/2011 11:25	STAIR FRAME	METAL	SOUTHWEST	PEELING	WHITE	1264 P STREET	FIRST		EXTERIOR	Negative	0.04
57	2/1/2011 11:26	LANDING FRAME	METAL	SOUTHWEST	PEELING	WHITE	1264 P STREET	FIRST		EXTERIOR	Negative	0.04
58	2/1/2011 11:26	STAIR HAND RAIL	METAL	SOUTHWEST	PEELING	WHITE	1264 P STREET	FIRST		EXTERIOR	Negative	0.04
59	2/1/2011 11:27	WALL	CONCRETE	SOUTHWEST	INTACT	LT. GRAY	1264 P STREET	FIRST		EXTERIOR	Negative	0.04
60	2/1/2011 11:28	WALL	CONCRETE	SOUTHWEST	INTACT	GRAY	1264 P STREET	FIRST		EXTERIOR	Negative	0
61	2/1/2011 11:29	HAND RAIL	WOOD	WEST	POOR	WHITE	1264 P STREET	FIRST	COURTYD SIDE	EXTERIOR	Negative	0
62	2/1/2011 11:30	HAND RAIL	WOOD	WEST	POOR	WHITE	1264 P STREET	FIRST	COURTYD SIDE	EXTERIOR	Negative	0
63	**2/1/2011 11:30**	**HAND RAIL POSTS**	**WOOD**	**WEST**	**FAIR**	**WHITE**	**1264 P STREET**	**FIRST**	**COURTYD SIDE**	**EXTERIOR**	**Positive**	**2.6**
64	**2/1/2011 11:31**	**HAND RAIL POSTS**	**WOOD**	**WEST**	**FAIR**	**WHITE**	**1264 P STREET**	**FIRST**	**COURTYD SIDE**	**EXTERIOR**	**Positive**	**1.4**
65	2/1/2011 11:33	FASCIA	METAL	WEST	INTACT	WHITE	1264 P STREET	FIRST	COURTYD SIDE	EXTERIOR	Negative	0.11
66	2/1/2011 11:33	GUTTER	METAL	WEST	INTACT	WHITE	1264 P STREET	FIRST	COURTYD SIDE	EXTERIOR	Negative	0
67	2/1/2011 11:34	EAVES	STUCCO	WEST	INTACT	GRAY	1264 P STREET	FIRST	COURTYD SIDE	EXTERIOR	Negative	0
68	2/1/2011 11:43	DOOR FRAME	WOOD	WEST	FAIR	WHITE	1264 P STREET	SECOND	UNIT 9	EXTERIOR	Negative	0.8
69	2/1/2011 11:44	DOOR	WOOD	WEST	FAIR	ORANGE	1264 P STREET	SECOND	UNIT 9	EXTERIOR	Negative	0.11
70	2/1/2011 11:46	DOOR	WOOD	WEST	FAIR	WHITE	1264 P STREET	SECOND	UNIT 11	EXTERIOR	Negative	0.08
71	2/1/2011 11:46	DOOR FRAME	WOOD	WEST	FAIR	WHITE	1264 P STREET	SECOND	UNIT 11	EXTERIOR	Negative	0
72	2/1/2011 11:47	DOOR FRAME	WOOD	WEST	FAIR	GRAY	1264 P STREET	SECOND	UNIT 11	EXTERIOR	Negative	0.8
73	2/1/2011 11:50	HVAC UNITS	METAL	SOUTH	PEELING	GRAY	1264 P STREET	SECOND	SOUTH ROOF	EXTERIOR	Negative	0.01
74	2/1/2011 11:50	HVAC UNITS	METAL	SOUTH	PEELING	BEIGE	1264 P STREET	SECOND	SOUTH ROOF	EXTERIOR	Negative	0.03

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Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC
75	2/1/2011 11:51	HVAC UNITS	METAL	SOUTH	CHALKING	BEIGE	1264 P STREET	SECOND	SOUTH ROOF	EXTERIOR	Negative	0
76	2/1/2011 11:51	HVAC UNITS	METAL	SOUTH	PEELING	WHITE	1264 P STREET	SECOND	SOUTH ROOF	EXTERIOR	Negative	0.02
77	2/1/2011 11:57	STAIR FRAME	METAL	NORTHWEST	INTACT	WHITE	1264 P STREET	SECOND		EXTERIOR	Negative	0.1
78	2/1/2011 11:57	STAIR LANDING	METAL	NORTHWEST	FAIR	GRAY	1264 P STREET	SECOND		EXTERIOR	Negative	0.04
79	2/1/2011 11:58	STAIR HAND RAIL	METAL	NORTHWEST	PEELING	GRAY	1264 P STREET	SECOND		EXTERIOR	Negative	0.1
80	2/1/2011 12:59	E.WALL	STUCCO	WEST	PEELING	GRAY-GREEN	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Null	0
81	2/1/2011 13:00	E.WALL	STUCCO	WEST	PEELING	GRAY-GREEN	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0
82	2/1/2011 13:01	METER BOX	WOOD	WEST	FAIR	GRAY-GREEN	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0
83	2/1/2011 13:01	METER BOX	WOOD	WEST	FAIR	GRAY	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0
84	2/1/2011 13:03	CEILING	DRYWALL	WEST	INTACT	GREEN	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.02
85	2/1/2011 13:04	WALL-PARK. STALL	STUCCO	WEST	PEELING	GRAY	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.03
86	2/1/2011 13:05	WALL-PARK. STALL	STUCCO	WEST	PEELING	GRAY	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.01
87	2/1/2011 13:06	WALL BOARD	WOOD	WEST	INTACT	GRAY	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0
88	2/1/2011 13:07	DOOR FRAMES	WOOD	WEST	INTACT	LT. BLUE	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.06
89	2/1/2011 13:07	DOOR	WOOD	WEST	INTACT	GRAY	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.16
90	2/1/2011 13:08	DOOR	WOOD	WEST	INTACT	LT. BLUE	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.22
91	2/1/2011 13:09	WALL-PARK. STALL	STUCCO	WEST	INTACT	LT. BLUE	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0
92	2/1/2011 13:10	WALL BOARD	WOOD	WEST	INTACT	LT. BLUE	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0
93	2/1/2011 13:12	CEILING	DRYWALL	WEST	FAIR	LT. BLUE	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.04
94	2/1/2011 13:13	CEILING STRIP	METAL	WEST	FAIR	LT. BLUE	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.04
95	2/1/2011 13:14	DOOR FRAME	WOOD	WEST	INTACT	LT. BLUE	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.8
96	2/1/2011 13:14	DOOR	WOOD	WEST	INTACT	GRAY	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0.4
97	2/1/2011 13:17	DRIVEWAY WALL	STUCCO	WEST	FAIR	GRAY-GREEN	1264 P STREET	FIRST	PARKING SIDE	EXTERIOR	Negative	0
98	2/1/2011 13:20	WALL	DRYWALL	EAST	POOR	TAN	1264 P STREET	FIRST	STORAGE ROOM		Negative	0
99	2/1/2011 13:21	WINDOW FRAME	WOOD	EAST	PEELING	TAN	1264 P STREET	FIRST	STORAGE ROOM		Negative	0
100	2/1/2011 13:21	DOOR FRAME	WOOD	EAST	FAIR	TAN	1264 P STREET	FIRST	STORAGE ROOM		Negative	0.01
101	2/1/2011 13:22	CEILING	DRYWALL	EAST	FAIR	TAN	1264 P STREET	FIRST	STORAGE ROOM		Negative	0
102	2/1/2011 13:23	WALL	DRYWALL	WEST	FAIR	TAN	1264 P STREET	FIRST	STORAGE ROOM		Negative	0
103	2/1/2011 13:24	BASEBOARD	WOOD	SOUTH	INTACT	TAN	1264 P STREET	FIRST	STORAGE ROOM		Negative	0.8
104	2/1/2011 13:51	DOOR	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	UNIT 5		Negative	0.05
105	2/1/2011 13:52	WALL	DRYWALL	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 5	Negative	0
106	2/1/2011 13:53	BASEBOARD	WOOD	WEST	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 5	Negative	0.04
107	2/1/2011 13:54	CEILING	ACOUSTIC		INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 5	Negative	0
108	2/1/2011 13:55	CEILING	DRYWALL		INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 5	Negative	0.06
109	2/1/2011 13:56	WALL	DRYWALL	WEST	INTACT	BEIGE	1264 P STREET	FIRST	KITCHEN	UNIT 5	Negative	0.2
110	2/1/2011 13:57	WALL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 5	Negative	0.1
111	2/1/2011 13:58	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 5	Negative	0

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112	2/1/2011 13:59	SHELVES	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 5	Negative	0
113	**2/1/2011 14:00**	**COUNTER TOP**	**CERAMIC TILE**	**EAST**	**INTACT**	**TAN**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 5**	**Positive**	**9.7**
114	**2/1/2011 14:01**	**SINK**	**CERAMIC**	**EAST**	**INTACT**	**WHITE**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 5**	**Positive**	**41.5**
115	2/1/2011 14:02	WALL	DRYWALL	WEST	INTACT	TAN	1264 P STREET	FIRST	WATER HTR CLOSET	UNIT 5	Null	0
116	2/1/2011 14:02	WALL	DRYWALL	WEST	INTACT	WHITE	1264 P STREET	FIRST	WATER HTR CLOSET	UNIT 5	Negative	0
117	2/1/2011 14:03	CEILING	DRYWALL		INTACT	WHITE	1264 P STREET	FIRST	WATER HTR CLOSET	UNIT 5	Negative	0
118	2/1/2011 14:04	DOOR FRAME	WOOD	WEST	INTACT	WHITE	1264 P STREET	FIRST	WATER HTR CLOSET	UNIT 5	Negative	0
119	2/1/2011 14:05	DOOR FRAME	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.18
120	2/1/2011 14:05	WALL	DRYWALL	EAST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.06
121	2/1/2011 14:06	WALL	DRYWALL	WEST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.03
122	2/1/2011 14:06	CABINET	WOOD	WEST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.02
123	2/1/2011 14:07	SINK AREA	CERAMIC TILE	WEST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Positive	6.5
124	2/1/2011 14:08	SINK	CERAMIC	WEST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Positive	4.5
125	2/1/2011 14:08	SINK AREA	CERAMIC TILE	WEST	INTACT	BLUE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Positive	9.3
126	2/1/2011 14:09	TOILET	CERAMIC	WEST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.04
127	2/1/2011 14:11	BATHTUB	CERAMIC	NORTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Null	0.9
128	2/1/2011 14:14	BATHTUB	CERAMIC	NORTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.8
129	2/1/2011 14:15	WALL	CERAMIC TILE	NORTH	INTACT	BLUE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Positive	5.7
130	2/1/2011 14:15	WINDOW	CERAMIC TILE	NORTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.11
131	2/1/2011 14:16	CEILING	DRYWALL		INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 5	Negative	0.05
132	2/1/2011 14:17	CABINET	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	HALL	UNIT 5	Negative	0.01
133	2/1/2011 14:17	DOOR FRAME	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	HALL	UNIT 5	Negative	0.03
134	2/1/2011 14:18	WALL	DRYWALL	EAST	INTACT	WHITE	1264 P STREET	FIRST	HALL	UNIT 5	Negative	0
135	2/1/2011 14:19	DOOR FRAME	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 5	Negative	0.06
136	2/1/2011 14:19	WALL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 5	Negative	0
137	2/1/2011 14:20	WINDOW SILL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 5	Negative	0
138	2/1/2011 14:20	WALL	DRYWALL	EAST	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 5	Negative	0
139	2/1/2011 14:22	CEILING	ACOUSTIC		INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 5	Negative	0
140	2/1/2011 14:23	BASEBOARD	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	HALL	UNIT 5	Negative	0.02
141	2/1/2011 14:25	CEILING	ACOUSTIC		INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 5	Negative	0
142	2/1/2011 14:25	WALL	DRYWALL	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 5	Negative	0
143	2/1/2011 14:26	WINDOW SILL	DRYWALL	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 5	Negative	0
144	2/1/2011 14:26	DOOR FRAME	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 5	Negative	0.4
145	2/1/2011 14:37	DOOR FRAME	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 7	Negative	0
146	2/1/2011 14:38	DOOR	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 7	Negative	0
147	2/1/2011 14:39	WALL	DRYWALL	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 7	Negative	0
148	2/1/2011 14:39	BASEBOARD	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 7	Negative	0

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/1 - 2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1264 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC
149	2/1/2011 14:44	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 7	Negative	0
150	2/1/2011 14:44	WALL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 7	Negative	0
151	2/1/2011 14:45	CEILING	ACOUSTIC		INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 7	Negative	0
152	2/1/2011 14:46	WALL	DRYWALL	WEST	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 7	Negative	0.11
153	2/1/2011 14:46	BASEBOARD	WOOD	WEST	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 7	Negative	0
154	2/1/2011 14:47	CABINET	WOOD	WEST	INTACT	VARNISH	1264 P STREET	FIRST	KITCHEN	UNIT 7	Negative	0
155	2/1/2011 14:48	WALL	CERAMIC TILE	WEST	INTACT	TAN	1264 P STREET	FIRST	KITCHEN	UNIT 7	Negative	0.06
156	2/1/2011 14:49	CABINET	WOOD	EAST	INTACT	VARNISH	1264 P STREET	FIRST	KITCHEN	UNIT 7	Negative	0
157	2/1/2011 14:49	SHELVES	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 7	Negative	0.01
158	**2/1/2011 14:50**	**COUNTER TOP**	**CERAMIC TILE**	**EAST**	**INTACT**	**TAN**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 7**	**Positive**	**30.6**
159	**2/1/2011 14:50**	**WALL**	**CERAMIC TILE**	**EAST**	**INTACT**	**TAN**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 7**	**Positive**	**32.4**
160	**2/1/2011 14:51**	**SINK**	**CERAMIC**	**EAST**	**INTACT**	**WHITE**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 7**	**Positive**	**38**
161	2/1/2011 14:52	CEILING	DRYWALL		INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 7	Negative	0.17
162	2/1/2011 14:53	DOOR	WOOD	WEST	INTACT	VARNISH	1264 P STREET	FIRST	WATER HTR CLOSET	UNIT 7	Negative	0.03
163	**2/1/2011 14:54**	**COUNTER TOP**	**CERAMIC TILE**	**WEST**	**INTACT**	**PINK**	**1264 P STREET**	**FIRST**	**BATHROOM**	**UNIT 7**	**Positive**	**7.1**
164	**2/1/2011 14:55**	**SINK**	**CERAMIC**	**WEST**	**INTACT**	**WHITE**	**1264 P STREET**	**FIRST**	**BATHROOM**	**UNIT 7**	**Positive**	**2.8**
165	2/1/2011 14:56	TOILET	CERAMIC	WEST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0.08
166	2/1/2011 14:56	SINK CABINET	WOOD	WEST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0
167	2/1/2011 14:57	FLOOR	CERAMIC TILE		INTACT	TAN	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0.01
168	2/1/2011 14:57	WALL	CERAMIC TILE	NORTH	INTACT	TAN	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0.02
169	2/1/2011 14:59	BATHTUB	CERAMIC	NORTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0.7
170	2/1/2011 15:00	CEILING	DRYWALL		INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0.11
171	2/1/2011 15:00	WALL	DRYWALL	EAST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0.01
172	2/1/2011 15:01	DOOR FRAME	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0.16
173	2/1/2011 15:01	DOOR	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 7	Negative	0
174	2/1/2011 15:02	DOOR FRAME	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 7	Negative	0
175	2/1/2011 15:02	DOOR	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 7	Negative	0
176	2/1/2011 15:03	CLOSET DOOR FRAM	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 7	Negative	0
177	2/1/2011 15:03	CLOSET DOOR	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	N. BEDROOM	UNIT 7	Negative	0
178	2/1/2011 15:04	CABINET	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	HALL	UNIT 7	Negative	0
179	2/1/2011 15:16	DOOR	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	0.01
180	2/1/2011 15:16	DOOR TRIM	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	0
181	2/1/2011 15:17	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	0.03
182	2/1/2011 15:18	WALL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	-0.63
183	2/1/2011 15:18	WINDOW SILL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	0
184	2/1/2011 15:21	WALL	DRYWALL	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	0.01
185	2/1/2011 15:22	BASEBOARD	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	0.14

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/1 - 2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1264 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC
186	2/1/2011 15:22	CEILING	ACOUSTIC	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	LIVING ROOM	UNIT 2	Negative	0
187	2/1/2011 15:23	WALL	DRYWALL	EAST	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 2	Negative	0.11
188	2/1/2011 15:24	CABINET	WOOD	EAST	INTACT	VARNISH	1264 P STREET	FIRST	KITCHEN	UNIT 2	Null	0
189	2/1/2011 15:24	CABINET	WOOD	EAST	INTACT	VARNISH	1264 P STREET	FIRST	KITCHEN	UNIT 2	Negative	0
190	**2/1/2011 15:25**	**BASEBOARD**	**WOOD**	**EAST**	**INTACT**	**WHITE**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 2**	**Positive**	**1.9**
191	2/1/2011 15:25	BASEBOARD	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 2	Negative	0.11
192	2/1/2011 15:27	CABINET	WOOD	WEST	INTACT	VARNISH	1264 P STREET	FIRST	KITCHEN	UNIT 2	Negative	0
193	2/1/2011 15:28	SHELVES	WOOD	WEST	PEELING	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 2	Negative	0.04
194	**2/1/2011 15:28**	**COUNTER TOP**	**CERAMIC TILE**	**WEST**	**INTACT**	**BROWN**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 2**	**Positive**	**9.7**
195	**2/1/2011 15:29**	**WALL**	**CERAMIC TILE**	**WEST**	**INTACT**	**BROWN**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 2**	**Positive**	**30.7**
196	**2/1/2011 15:29**	**SINK**	**CERAMIC**	**WEST**	**INTACT**	**WHITE**	**1264 P STREET**	**FIRST**	**KITCHEN**	**UNIT 2**	**Positive**	**40.1**
197	2/1/2011 15:30	BASEBOARD	WOOD	WEST	INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 2	Negative	0.08
198	2/1/2011 15:31	CEILING	DRYWALL		INTACT	WHITE	1264 P STREET	FIRST	KITCHEN	UNIT 2	Negative	0.03
199	2/1/2011 15:33	DOOR FRAME	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 2	Negative	0.04
200	**2/1/2011 15:34**	**COUNTER TOP**	**CERAMIC TILE**	**EAST**	**INTACT**	**ORANGE**	**1264 P STREET**	**FIRST**	**BATHROOM**	**UNIT 2**	**Positive**	**5.5**
201	**2/1/2011 15:35**	**SINK**	**CERAMIC**	**EAST**	**INTACT**	**WHITE**	**1264 P STREET**	**FIRST**	**BATHROOM**	**UNIT 2**	**Positive**	**2.2**
202	2/1/2011 15:35	TOILET	CERAMIC	EAST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 2	Negative	0.04
203	2/1/2011 15:36	SINK CABINET	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 2	Null	0.07
204	2/1/2011 15:36	SINK CABINET	WOOD	EAST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 2	Negative	0.04
205	2/1/2011 15:37	WALL	DRYWALL	EAST	INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 2	Negative	0.03
206	2/1/2011 15:38	WALL	DRYWALL	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	N.BEDROOM	UNIT 2	Negative	0
207	2/1/2011 15:38	BASEBOARD	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	N.BEDROOM	UNIT 2	Negative	0
208	2/1/2011 15:39	DOOR	WOOD	NORTH	INTACT	VARNISH	1264 P STREET	FIRST	N.BEDROOM	UNIT 2	Negative	0
209	2/1/2011 15:40	DOOR FRAME	WOOD	WEST	INTACT	VARNISH	1264 P STREET	FIRST	HALL	UNIT 2	Negative	0.04
210	2/1/2011 15:41	CABINET	WOOD	WEST	INTACT	VARNISH	1264 P STREET	FIRST	HALL	UNIT 2	Negative	0
211	2/1/2011 15:42	WALL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 2	Negative	0.01
212	2/1/2011 15:42	WINDOW SILL	DRYWALL	NORTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 2	Negative	0
213	2/1/2011 15:43	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 2	Negative	0.01
214	2/1/2011 15:43	DOOR FRAME	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 2	Negative	0.06
215	2/1/2011 15:44	DOOR	WOOD	SOUTH	INTACT	VARNISH	1264 P STREET	FIRST	S. BEDROOM	UNIT 2	Negative	0
216	2/1/2011 15:44	CLOSET DOOR FRAM	WOOD	SOUTH	INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 2	Negative	0.01
217	2/1/2011 15:45	CEILING	ACOUSTIC		INTACT	WHITE	1264 P STREET	FIRST	S. BEDROOM	UNIT 2	Negative	0
218	2/1/2011 15:49	DOOR	WOOD	EAST	INTACT	WHITE	1264 P STREET	SECOND	S. BEDROOM	UNIT 9	Negative	-0.3
219	2/1/2011 15:49	DOOR FRAME	WOOD	EAST	INTACT	WHITE	1264 P STREET	SECOND	S. BEDROOM	UNIT 9	Negative	0
220	2/1/2011 15:50	WALL	DRYWALL	EAST	INTACT	WHITE	1264 P STREET	SECOND	S. BEDROOM	UNIT 9	Negative	0
221	2/1/2011 15:50	BASEBOARD	WOOD	EAST	INTACT	WHITE	1264 P STREET	SECOND	S. BEDROOM	UNIT 9	Negative	0.02
222	2/1/2011 15:51	CEILING	ACOUSTIC		INTACT	WHITE	1264 P STREET	SECOND	S. BEDROOM	UNIT 9	Negative	0

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/1 - 2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1264 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC
223	2/1/2011 15:52	COUNTER TOP	CERAMIC TILE	SOUTH	INTACT	BROWN	1264 P STREET	SECOND	KITCHEN	UNIT 9	Positive	4
224	2/1/2011 15:53	CEILING	DRYWALL		INTACT	WHITE	1264 P STREET	SECOND	KITCHEN	UNIT 9	Negative	0.03
225	2/1/2011 15:54	WALL	DRYWALL	WEST	INTACT	WHITE	1264 P STREET	SECOND	KITCHEN	UNIT 9	Negative	0.12
226	2/1/2011 15:55	WINDOW SILL	DRYWALL	WEST	INTACT	WHITE	1264 P STREET	SECOND	KITCHEN	UNIT 9	Negative	0.12
227	2/1/2011 15:55	BASEBOARD	WOOD	WEST	INTACT	WHITE	1264 P STREET	SECOND	KITCHEN	UNIT 9	Negative	0.02
228	2/1/2011 15:56	DOOR FRAME	WOOD	EAST	INTACT	WHITE	1264 P STREET	SECOND	BATHROOM	UNIT 9	Negative	-0.04
229	2/1/2011 15:57	DOOR	WOOD	EAST	INTACT	WHITE	1264 P STREET	SECOND	BATHROOM	UNIT 9	Negative	0
230	2/1/2011 15:58	COUNTER TOP	CERAMIC TILE	WEST	INTACT	GRAY	1264 P STREET	SECOND	BATHROOM	UNIT 9	Positive	9.7
231	2/1/2011 15:59	SINK	CERAMIC	WEST	INTACT	WHITE	1264 P STREET	SECOND	BATHROOM	UNIT 9	Positive	3.2
232	2/1/2011 15:59	TOILET	CERAMIC	WEST	INTACT	WHITE	1264 P STREET	SECOND	BATHROOM	UNIT 9	Negative	0.02
233	2/1/2011 16:00	WALL	CERAMIC TILE	WEST	INTACT	GRAY	1264 P STREET	SECOND	BATHROOM	UNIT 9	Positive	8.9
234	2/1/2011 16:00	WINDOW SILL	CERAMIC TILE	WEST	INTACT	WHITE	1264 P STREET	SECOND	BATHROOM	UNIT 9	Positive	4.9
235	2/1/2011 16:13	CALIBRATION					1264 P STREET				Positive	1
236	2/1/2011 16:13	CALIBRATION					1264 P STREET				Negative	0.9
237	2/1/2011 16:14	CALIBRATION					1264 P STREET				Null	1
238	2/1/2011 16:14	CALIBRATION					1264 P STREET				Null	1.2
239	2/1/2011 16:14	CALIBRATION					1264 P STREET				Negative	0.9
240	2/2/2011 8:34											3.11
241	2/2/2011 8:36	CALIBRATION									Negative	0.9
242	2/2/2011 8:36	CALIBRATION									Positive	1
243	2/2/2011 8:37	CALIBRATION									Null	0.9
244	2/2/2011 8:37	CALIBRATION									Negative	0.9
245	2/2/2011 8:42	FLOOR	CERAMIC TILE		INTACT	GRAY	1264 P STREET	FIRST	BATHROOM	UNIT 1	Negative	0.01
246	2/2/2011 8:45	FLOOR	CERAMIC TILE		INTACT	WHITE	1264 P STREET	FIRST	BATHROOM	UNIT 3	Negative	0.4
247	2/2/2011 8:48	COUNTER TOP	CERAMIC TILE	EAST	INTACT	TAN	1264 P STREET	FIRST	KITCHEN	UNIT 4	Positive	4.4
248	2/2/2011 8:54	COUNTER TOP	CERAMIC TILE	SOUTH	INTACT	PURPLE	1264 P STREET	FIRST	BATHROOM	UNIT 10	Positive	29.3

PCB Analytical Report and Chain of Custody Documentation

Appendix C

EMSL Analytical, Inc.

http://www.emsl.com

3 Cooper St.
Westmont, NJ 08108
Phone: (856) 858-4800
Fax: (856) 858-4571

Attn: **Heidi Yavornicky**
Converse Consultants
222 East Huntington Drive
Suite 211
Monrovia, CA 91016
Phone: (626) 930-1200
Fax: (626) 930-1212

2/24/2011

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2/10/2011. The results are tabulated on the attached data pages for the following client designated project:

Firebaugh

The reference number for these samples is EMSL Order #011100710. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 858-4800.

Reviewed and Approved By:

Julie Smith - Laboratory Director or other approved signatory

The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.
NJ-NELAP Accredited: 04653

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Heidi Yavornicky**
Converse Consultants
222 East Huntington Drive
Suite 211
Monrovia, CA 91016

Fax: (626) 930-1212 Phone (626) 930-1200
Project: **Firebaugh**

Customer ID: 32CONV56
Customer PO: 08-11-115-02&03
Received: 02/10/11 12:00 PM
EMSL Order: 011100710

Analytical Results

Client Sample Description PCB-01 *Collected:* 2/1/2011 *Lab ID:* 0001

Method	Parameter	Result	Reporting Limit	Units	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1221	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1232	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1242	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1248	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1254	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1260	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1262	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1268	ND	0.83	mg/Kg	2/23/2011	ehernandez

Client Sample Description PCB-02 *Collected:* 2/2/2011 *Lab ID:* 0002

Method	Parameter	Result	Reporting Limit	Units	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1221	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1232	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1242	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1248	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1254	2.9	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1260	1.2	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1262	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1268	ND	0.72	mg/Kg	2/23/2011	ehernandez

Client Sample Description PCB-03 *Collected:* 2/3/2011 *Lab ID:* 0003

Method	Parameter	Result	Reporting Limit	Units	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1221	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1232	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1242	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1248	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1254	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1260	ND	0.86	mg/Kg	2/23/2011	ehernandez

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
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Attn: **Heidi Yavornicky**
Converse Consultants
222 East Huntington Drive
Suite 211
Monrovia, CA 91016

Fax: (626) 930-1212 Phone (626) 930-1200
Project: **Firebaugh**

Customer ID: 32CONV56
Customer PO: 08-11-115-02&03
Received: 02/10/11 12:00 PM
EMSL Order: 011100710

Analytical Results

Client Sample Description PCB-03 *Collected:* 2/3/2011 *Lab ID:* 0003

Method	*Parameter*	*Result*	*Reporting Limit*	*Units*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1262	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1268	ND	0.86	mg/Kg	2/23/2011	ehernandez

Definitions:
ND - indicates that the analyte was not detected at the reporting limit

EMSL Analytical Inc.

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 3786 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	X08699.D	**Sample Matrix:**	Soil
Instrument ID:	ECD-X	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	2/21/2011
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	2/23/2011 11:50:00 AM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	N
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/kg)	CONC. (mg/kg)	Q
12674-11-2	Aroclor 1016	0.10		U
11104-28-2	Aroclor 1221	0.10		U
11141-16-5	Aroclor 1232	0.10		U
53469-21-9	Aroclor 1242	0.10		U
12672-29-6	Aroclor 1248	0.10		U
11097-69-1	Aroclor 1254	0.10		U
11096-82-5	Aroclor 1260	0.10		U
37324-23-5	Aroclor 1262	0.10		U
11100-14-4	Aroclor 1268	0.10		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL PESTICIDE/PCB LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original File ID:** LCS 1 3786 X08699.D/X08700.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/kg	LCS CONC. mg/kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.30	87
2	Aroclor 1260	11096-82-5	63	131	1.50	1.39	92
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL PESTICIDE/PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original File ID:** 0826-1 PCB MS X08735.D/X08736.D/X08737.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	7.81	6.96	89	7.98	6.66	84	6
2	Aroclor 1260	11096-82-5	43	167	25	0.00	7.81	7.23	93	7.98	6.85	86	8
				Total Out					0 of 2			0 of 2	0 of 2

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number*(Lab Use Only)***:** 011100710

Westmont, NJ
3 Cooper Street
Westmont, NJ 08108
PHONE: 1-800-220-3675
FAX: (856) 858-4960

Company: Converse Consultants

EMSL-Bill to: ☐ Same ☑ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Street: 222 E. Huntington Drive Suite 211

City/State/Zip: Monrovia, CA 91016

Report To (Name): Heidi Yavornicky

Fax: 626-930-1212

Telephone: 626-930-1248

Email Address: hyavornicky@converseconsultants.com

Project Name/Number: Firebaugh

Please Provide Results: Email | **Purchase Order:** | **State Samples Taken:** CA

Standard Turnaround Time: ☑ 2 Weeks | The following TAT's are subject to lab approval: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water S=Soil A=Air SL=Sludge O=Other)	Preservative (1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other)	List Test(s) Needed: 8082 - Whole Walk								Comments	
(1)	PCB-01		✓	2/1/11	O	—	✓									
(2)	PCB-02		✓	2/1/11	O	—	✓									
~~(3)~~	PCB-03		✓	2/3/11	O	—	✓									0.6g

Released By (Signature)	Date & Time	Received By	Date & Time
[signature]	2/7/11 for ~~[illegible]~~ mail	EZ [signature]	2/10/11 12:00p

Please indicate reporting requirements: ☐ Results Only ☑ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other ______

Comments/Special Instructions: Please reference job number 08-11-115-02 and -03 on invoice. Please email/telephone to let me know that you have received the samples.
Bill To: Converse Consultants, 222 E. Huntington Drive, Suite 211, Monrovia, CA 91016
Attention: Marie DeBoynton **Phone:** 626-930-1246 **Email:** mdeboynton@converseconsultants.com **Purchase Order:** See comments

Controlled Document – Environmental Chemistry COC – EC1.0 – 11/23/2009

Page 1 of 1 Pages

PER HEIDI, WILL CALL BACK ABOUT #3
5:00pm 2/14/11 –EZ

PER HEIDI, OK TO RUN AT REDUCED WEIGHT
2/15/11 –EZ
12:00p

Appendix D

Photographs

Picture 1: View of 1 of 12 transite pipes as seen from the roof of the Property buildings (ACM).

Picture 2: View of HVAC mastic and roof penetration mastic (patches) as seen on the roof of the Property buildings (ACM).

Property Photographs

Picture 3: View of acoustic ceiling (ACM) and drywall and joint compound walls (ACCM). In the interior of the units.

Picture 4: View of drywall and joint compound ceilings (parking area; ACCM).

Property Photographs

Picture 5: View of 9x9 inch brown, speckled vinyl floor tile (ACM) in the Living Room of Unit #5.

Picture 6: Wood Hand Rail Frame and Posts at 2nd Floor, Courtyard side. Note damaged LBP and Wood Wall Top (Hand) Rail under louvers.

Property Photographs

Appendix E

STATE OF CALIFORNIA
Arnold Schwarzenegger, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
ASBESTOS CONSULTANT and TRAINER APPROVAL UNIT
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825
Tel: (916) 574-2993 Fax: (916) 483-0572

307281136C 72 79

Converse Consultants
George John Paler
222 E Huntington Dr, 211
Monrovia CA 91016

November 02, 2010

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, please abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification. Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as a CAC or CSST.

Please inform our office at the above address, fax number or actu@dir.ca.gov of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Industrial Hygienist

JF/ms

Attachment: Certification Card
cc: File

(Renewal – Card Attached Revised 8/29/06)

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

George John Paler
Name
Certification No. **93-1136**
Expires on **11/19/11**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq of the Business and Professions Code

Mr. George J. Paler
Converse Consultants
222 East Huntington Drive, Suite 211
Monrovia, California 91016

State of California Department of Public Health

Inspector/Assessor 06/26/2011
Project Designer 06/26/2011
Project Monitor 06/26/2011

George J. Paler ID #: 1487

STATE OF CALIFORNIA Arnold Schwarzenegger, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
ASBESTOS CONSULTANT and TRAINER APPROVAL UNIT
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825
Tel: (916) 574-2993 Fax: (916) 483-0572

8010743191 311

December 30, 2010

Converse Consultants
Heidi L Yavornicky
222 E. Huntington Drive, 211
Morovia ' CA 91016

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, please abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

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Sincerely,

Jeff Ferrell
Senior Industrial Hygienist

JF/ms

Attachment: Certification Card
cc: File

(Renewal – Card Attached Revised 8/29/06)

Ms. Heidi L. Yavornicky
Converse Consultants
222 East Huntington Drive, Suite 211
Monrovia, California 91016

STATE OF CALIFORNIA Edmund G. Brown, Jr., *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Unit
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825-0414
(916) 574-2993 Office (916) 483-0572 Fax
http://www.dir.ca.gov/dirdatabases.html actu@dir.ca.gov

612162093C 138

Converse Consultants
Norman S Eke
222 E Huntington Dr, 211
Monrovia ' CA 91016

January 25, 2011

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please inform our office at the above address, fax number or email; of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Industrial Hygienist

Attachment: Certification Card

cc: File

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Norman S Eke
Name

Certification No. **96-2093**

Expires on **03/07/12**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

Renewal – Card Attached (Revised 01/04/2011)

California Department of
Public Health
Form 8552

Appendix F

State of California—Health and Human Services Agency

California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 2/7/2011 and 2/8/2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
1264 P Street	Firebaugh	Fresno	93622

Construction date (year) of structure	Type of structure		Children living in structure?
>1956	☑ Multi-unit building	☐ School or daycare	☑ Yes ☐ No
	☐ Single family dwelling	☐ Other _____	☐ Don't Know

Section 4 — Owner of Structure (if business/agency, list contact person)

Name		Telephone number	
City of Firebaugh		(559) 659-2043	
Address [number, street, apartment (if applicable)]	**City**	**State**	**Zip Code**
1133 P Street	Firebaugh	CA	93622

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☐ No lead-based paint detected ☑ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name		Telephone number	
George Palar/Converse Consultants		(626) 930-1258	
Address [number, street, apartment (if applicable)]	**City**	**State**	**Zip Code**
222 E. Huntington Drive Suite 211	Monrovia	CA	91016

CDPH certification number	Signature	Date
#I-1487		2/22/11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

ASBESTOS, LEAD-BASED PAINT, AND PCB CAULK SURVEY REPORT
1238 – 1254 P Street
APN 008-075-03
Firebaugh, California

Prepared for:

City of Firebaugh
1133 P Street
Firebaugh, California 93622-2547

Prepared by:

Converse Consultants
222 E. Huntington Drive, Suite 211
Monrovia, California 91016

Converse Project No. 08-11-115-02

February 28, 2011

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

February 28, 2011

Mr. Jose Antonio Ramirez
City of Firebaugh
1133 P Street
Firebaugh, California 93622-2547

Subject: **Asbestos, Lead-Based Paint, and PCB Caulk Survey Report**
1238 – 1254 P Street
APN 008-075-03
Firebaugh, California
Converse Project No. 08-11-115-02

Mr. Ramirez:

Attached is a copy of the Asbestos, Lead-Based Paint, and PCB Caulk Survey report for the referenced property.

We appreciate the opportunity to be of service to you. If you should have any questions or comments regarding the contents of this report please contact either Heidi Yavornicky at (626) 930-1248 or Norman Eke at (626) 930-1260.

Sincerely,

CONVERSE CONSULTANTS

Heidi L. Yavornicky
Site Surveillance Technician, #08-4319
Lead Sampling Technician, #19759

George Paler
Certified Asbestos Consultant #93-1136
DHS Lead Inspector/Assessor, #I-1487

Norman S. Eke
Certified Asbestos Consultant, #96-2093

Dist: 2/Hard Copies to Addressee
1/Electronic PDF copy to Addressee

Table of Contents

Acronyms and Definitions

LIST OF ACRONYMS
For Asbestos and Lead

ACM	Asbestos-Containing Material
ACBM	Asbestos-Containing Building Material
ACCM	Asbestos-Containing Construction Material (California only)
AHERA	Asbestos Hazard Emergency Response Act
CAC	Certified Asbestos Consultant
Cal/EPA	California Environmental Protection Agency
CCR	California Code of Regulations
CSST	Certified Site Surveillance Technician
CFR	Code of Federal Regulations
COC	Chain of Custody
DOSH	California State Division of Occupational Safety & Health
EPA	Environmental Protection Agency
HEPA	High Efficiency Particulate Air
HVAC	Heating, Ventilation, and Air Conditioning
LBP	Lead-Based Paint
LCM	Lead-Containing Material
NEA	Negative Exposure Assessment
NESHAP	National Emission Standards for Hazardous Air Pollutants
NIOSH	National Institute for Occupational Safety and Health
NLLAP	National Lead Laboratory Accreditation Program
PCBs	Poly-Chlorinated Biphenyls
PEL	Permissible Exposure Limit
PLBP	Presumed Lead-Based Paint
PLM	Polarized Light Microscopy
PPE	Personal Protective Equipment
ppm	parts per million
QA/QC	Quality Assurance and Quality Control
RACM	Regulated Asbestos-Containing Material
SJVAPCD	San Joaquin Valley Air Pollution Control District

LIST OF DEFINITIONS
for Asbestos, Lead, and PCBs

Abatement: Asbestos **-** Control/elimination of asbestos through operations and maintenance, repair, enclosure, encapsulation, or removal. Lead - Any set of measures designed to reduce or eliminate lead hazards or lead-based paint for public and residential buildings, but does not include containment or cleaning.

Amended Water: Water to which a surfactant (wetting agent) has been added to increase the ability of the liquid to penetrate ACM and lead dust.

Asbestos: Asbestiform varieties of Chrysotile (serpentine), crocidolite (riebeckite), amosite (cummingtonitegrunerite), anthophyllite tremolite, and actinolite.

Asbestos-Containing Material (ACM): Material or product containing more than one percent (1%) asbestos

Asbestos-Containing Building Material (ACBM): Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building.

Asbestos-Containing Construction Material (ACCM): For California only. Manufactured construction material that contains more than one-tenth of one percent (0.1%) asbestos by weight.

Certificate: Document issued by the California Department of Health Services to an individual who meets the requirements for certification.

Component: Structural element or fixture, such as a wall, floor, ceiling, door, window, molding, trim, trestle, tank, stair, railing, cabinet, or downspout.

Department of Health Services (DHS): The State of California Department of Health Services.

Department of Housing and Urban Development (HUD): The United States Department of Housing and Urban Development.

Deteriorated Lead-Based Paint: Lead-based paint or surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a component.

Division of Occupational Safety and Health (DOSH): The State of California Division of Occupational Safety and Health, formerly known as Cal-OSHA.

City: The City of Firebaugh and its representatives.

Friable: Used in reference to a school building material which, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure.

High Efficiency Particulate Air (HEPA): Filter or system capable of removing particulates of 0.3 microns or larger from air at 99.97 percent or greater efficiency.

Lead-Based Paint: Paint containing a concentration of lead above the HUD definition of 5,000 ppm and/or 1.0 mg/cm^2.

Lead-Containing Material: A non-painted material (typically ceramic) containing a concentration of lead above the HUD definition of 5,000 ppm and/or 1.0 mg/cm^2.

Lead Inspection: Surface by surface investigation to determine the presence of lead-based paint, lead-containing paint, and/or condition assessment.

Lead-Related Construction Work: Construction, alteration, painting, demolition, salvage, renovation, repair, or maintenance of any residential or public building, including preparation and cleanup.

Nonfriable: Used in reference to a school building material which, when dry, may not be crumbled, pulverized, or reduced to powder by hand pressure.

Plasticize: To cover floors, ceilings, and walls with plastic (polyethylene) sheeting.

Poly-Chlorinated Biphenyls (PCBs): A known carcinogen and defined by EPA as a Resource Conservation and Recovery Act (RCRA) hazardous waste.

Presumed Lead-Based Paint: Paint or surface coating affixed to a component in or on a structure, but not tested for lead.

Regulated Area: Area established by the employer (abatement contractor) to demarcate where asbestos work is conducted, and by the adjoining area where debris and waste from such asbestos work accumulate; a work area within which airborne concentrations of asbestos exceed or may exceed (with reasonable possibility) the permissible exposure limit.

XRF Analyzer: Instrument that determines lead concentration in milligrams per square centimeter (mg/cm²) using the principle of x-ray fluorescence (XRF).

Executive Summary

This report presents the results of the survey performed by Converse Consultants (Converse) at the 9-unit apartment complex located at 1238 - 1254 P Street (APN 008-075-03), in the City of Firebaugh, California. Our scope of services consisted of a survey of suspect asbestos-containing materials (ACM), lead-based paint (LBP) and poly-chlorinated biphenyls (PCB) in caulking. The purpose of the survey was to evaluate the suspect materials that would be impacted by the planned demolition at the property.

The following is a summary of our report. Please refer to the appropriate sections of the report for complete conclusions and recommendations. In the event of a conflict between this summary and the report, or an omission in the summary, the report shall prevail.

Our work was performed in accordance with our Field Sampling Plan dated January 7, 2011 and consisted of the following tasks:

- Performed destructive and non-destructive surveys of the buildings in accordance with AHERA and NESHAP sampling protocols.
- Collected bulk samples of suspect ACMs and submitted samples to a certified laboratory for analysis.
- Performed testing and sampling of suspect LBPs and LCMs.
- Inspected the building (and sampled if appropriate) potential PCB caulk
- Prepared this report.

The survey was completed on Wednesday, February 2, 2011. Asbestos-containing materials, lead-based paint and lead-containing materials were identified in the buildings. See the appropriate sections of the report for details of our findings starting on Page 4.

1.0 Purpose and Scope of Services

This report presents the results of the Converse ACM, LBP, and PCB Survey performed at 1238 – 1254 P Street (APN 008-075-03), Firebaugh, California. The purpose of the survey was to identify suspect ACMs, LBPs, and PCB caulk that would be impacted by demolition at the Property.

Our work was performed in general accordance with our Field Sampling Plan dated January 7, 2011 and consisted of the following tasks:

- Performed destructive and non-destructive surveys of the buildings
- Collected bulk samples of suspect ACMs and submitted samples to a certified laboratory for analysis.
- Performed testing and sampling of suspect LBPs and LCMs.
- Inspected the building (and sampled if appropriate) potential PCB caulk
- Prepared this report.

George Paler, Certified Asbestos Consultant (CAC #93-1136) and Certified Lead Inspector/Assessor (I1487), and Heidi Yavornicky, Site Surveillance Technician (#08-4319) and Lead Sampling Technician (#19759) completed the survey. The survey was completed on Wednesday, February 2, 2011.

2.0 Sampling Methodology

2.1 Asbestos

The subject site consists of two (2) rectangular buildings. The north building contains 4 one-bedroom units and the south building contains 5 one-bedroom units measuring approximately 550 square feet each. The south building appears to be primarily of concrete masonry unit (CMU) construction with a thin coating of stucco on the exterior. The north building exterior contains stucco walls. Four (4) units are located in the north building and 5 in the south. The buildings are of typical wood frame and drywall construction with asphalt shingle roofs. At the time of our survey, 3 of the units in the north building and 2 units in the south building were occupied. The buildings are built slab on-grade; there is no basement, crawl space, or sub-floor. Both buildings contain attic spaces that are accessible from hatches on the east side of each building.

Prior to sampling, Converse visually surveyed the interior and exterior of the buildings for presumed asbestos-containing materials and homogeneous areas (areas that have uniform color, texture, and appearance). Locations inside the buildings observed to contain suspect ACM were divided by functional space. Suspect materials in the buildings were divided into friable and non-friable homogenous materials and placed in one of the following EPA categories:

- Surfacing Materials (sprayed or troweled-on materials)
- Thermal Systems Insulations (materials generally applied to various mechanical systems)
- Miscellaneous Materials (any materials which do not fit in the above categories)
- NESHAP Categories (Friable – RACM, Category 1 Non-friable, Category 2 Non-friable)
- Our sampling methodology followed the general guidelines for bulk asbestos sampling as presented in Section 40, Part 763 (AHERA) of the Code of Federal Regulations (CFR) and extended to public buildings by ASHARA in 1994 and 40 CFR Part 61 (NESHAP).

Bulk samples of suspect materials were logged on to chain-of-custody documentation and submitted to a State-certified laboratory for analysis. The samples were analyzed by Polarized Light Microscopy (PLM) in accordance with U.S. EPA Method 600/R-93/116. See the appropriate sections for details of the suspect materials sampled.

Destructive sampling methods were used in unoccupied units within the complex, (specifically Units 1238, 1244, 1246, 1250, and 1254). Void spaces between walls and floors were accessed, evaluated, and sampled in these units. Attics and spaces above the existing ceilings were also observed in these units and suspect materials were

sampled. The unoccupied units in the apartment building were observed to be homogenous to the occupied units. Samples of general building components (i.e., visually identical flooring and ceiling materials) were assumed to be representative of homogenous materials used throughout the building/functional space. Non-destructive sampling methods were employed in the occupied units during this survey. The storage units at the west ends of each building were not accessible at the time of the survey.

2.2 Lead

Prior to sampling, Converse visually surveyed the interior and exterior of the buildings for painted building components and components suspected of containing lead such as ceramic tiles or plumbing fixtures. Our sampling methodology generally followed the "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" published by the Department of Housing and Urban Development (HUD) in 1995.

Converse used an x-ray fluorescence (XRF) device to measure lead content in painted surfaces and suspect lead-containing materials. The device used was a Niton XLp 300/700-series XRF. The detection level for lead was set at 1.0 mg/cm² as defined by HUD. As no inconclusive readings were obtained on the direct read XRF device, no bulk samples of suspect paint were collected or submitted to a laboratory. Converse surveyed the following interior and exterior components:

- Interior and Exterior Walls and associated components
- Eaves, Rafters and Fascias
- Porticos and associated components
- Windows and associated components
- Ceilings and associated components
- Doors and associated components
- Gutters
- Cabinets and shelves
- Baseboards
- Floors
- Plumbing Fixtures and ceramic tiles

2.3 PCBs

Converse collected one (1) sample of caulk from the damaged Kitchen ceiling in Unit 1244 of the North Building. This sample appeared to be representative of the oldest caulk at the building. The sample was submitted to EMSL Laboratories for analysis for PCB's.

3.0 Discussion of Survey Results

The bulk asbestos samples were submitted to the Converse laboratory in Reno, Nevada. The asbestos samples were analyzed for asbestos content by EPA Test Method 600/R-93/116.

3.1 Asbestos

The following suspect materials submitted for laboratory analysis did not detect concentrations of asbestos in any of the samples collected. Refer to Appendix A for further clarification.

Table 1 – Summary of Non-Asbestos-Containing Materials Sampled

Building Material	Location	Square Feet (Approx.)	Comments
12x12 inch brown speckled vinyl floor tile (VFT) and associated brown/black mastic only	Units 1238, 1240, 1242, 1244, 1246, 1248, 1250, 1252 and 1254	4,000	Good Condition. Asbestos was not detected in the associated black mastic. Additional analysis of the floor tile by 1,000-point count did not detect asbestos in concentrations above 0.1%, therefore the floor tile is not considered to be an ACM or ACCM. The floor tile and mastic are present in the following areas: Unit 1238 – Living Room, Bedroom and Bathroom (1 layer). Unit 1240 – Living Room, Bathroom and Bedroom (1 layer). Unit 1242 – Bathroom (1 layer). Unit 1244 – Kitchen (part) and Bathroom (1 layer). Unit 1246 – Living Room, Kitchen, Bedroom and Bathroom (1 layer). Unit 1248 – Living Room, Kitchen, and Bedroom (1 layer). Unit 1250 – Underneath Brown, brick-pattern VFT in Living Room and Kitchen (2 layers), and underneath wood floor in Bedroom. Unit 1252 – Living Room, Kitchen, Bedroom and Bathroom (1 layer). Unit 1254 – Living Room, Kitchen, Bedroom and Bathroom (1 layer). Concrete substrate.
9X9 gray speckled VFT and black mastic	Unit 1242 only	3	Good Condition. Observed as patch near the refrigerator.
Leveling compound, white	South side of unit 1250 only	5	Good condition. Between 2 layers of VFT near doorway.
Drywall and joint compound walls and ceilings,	Interior walls in units of the South building (1246 – 1254)	2,000	Good condition. Some exterior facing walls are concrete block (CMU) and not suspect for asbestos.

Table 1 – Summary of Non-Asbestos-Containing Materials Sampled

Building Material	Location	Square Feet (Approx.)	Comments
South building only			
Blown-in insulation - brown	North building	2,750	Good condition. Above ceiling. Blown in insulation at south building was white and not suspect.
Vapor barrier paper – black	North building	2,500	Good condition. Beneath fiberglass at exterior facing walls.
Exterior stucco, blue/gray	Both north and south buildings	5,500	Good condition. Extreme east side of south building covered with wood paneling.
Roof felt (core), black/gray	Both north and south buildings	5,500	Good Condition. Approximately 2 – 4 layers of roof felt over both buildings.

Based on laboratory analysis, the following materials were found to have asbestos concentrations greater than one percent, and are therefore considered to be an ACM.

Table 2 – Summary of ACMs

Building Material	Percent Asbestos	Friable	Square Feet (Approx.)	Comments
9 X 9 vinyl floor tile (VFT) – brown speckled, with black mastic	3 – 15 % Chrysotile (VFT)	No	200	Good Condition. In select units only (primarily 1244 and 1250 – 2 layers in Kitchen and Living Room). The black mastic was ACCM (see Table 3). Concrete substrate. NESHAP Category: Category 1 non-friable.
9 X 9 VFT – red, with black mastic	3 – 10 % Chrysotile (VFT)	No	150	Good Condition. In Unit 1240, Kitchen area only. The black mastic was ACCM (see Table 3). Concrete substrate. NESHAP Category: Category 1 non-friable.
9 X 9 VFT – blue, with black mastic	3 – 10 % Chrysotile (VFT) 3 – 5 % Chrysotile (mastic)	No	150	Good Condition. In Unit 1242, Kitchen area only. Concrete substrate. NESHAP Category: Category 1 non-friable.
9 X 9 VFT – cream with red/yellow, with black mastic	3 – 10 % Chrysotile (VFT) 3 – 5 % Chrysotile (mastic)	No	350	Good Condition. In Unit 1242, Living Room and Bedroom. Concrete substrate. VFT is beneath carpet in the living room. NESHAP Category: Category 1 non-friable.
9 X 9 VFT – brown streaked, with black mastic	>1 – 3 % Chrysotile	No	10	Good Condition. In Unit 1238. Concrete substrate. VFT is beneath carpet in Living Room and Bedroom. Mastic assumed positive based on adjacent sample results. NESHAP Category: Category 1 non-friable.

Table 2 – Summary of ACMs

Building Material	Percent Asbestos	Friable	Square Feet (Approx.)	Comments
9 X 9 VFT – green, with black mastic	3 – 10 % Chrysotile (VFT) >1 – 5 % Chrysotile (mastic)	No	100	Good Condition. In Unit 1238, Kitchen area. Concrete substrate. NESHAP Category: Category 1 non-friable.
Black mastic associated with 9x9 inch black VFT	None Detected (VFT) >1 - 3 % Chrysotile (Mastic)	No	10	Good Condition. East side of Kitchen in Unit 1238. Asbestos was not detected in the VFT, but was detected in the mastic. Surrounding VFT and mastic is ACM. Concrete substrate. NESHAP Category: Category 1 non-friable.
Drywall and joint compound walls and ceilings, north building only	>1 – 3 % Chrysotile	No	2,000	Good condition. Interior walls throughout all units of the north building (1238 – 1244). Some exterior facing walls are concrete block and not suspect for asbestos. NESHAP Category: Category 1 non-friable.
HVAC roof mastic, black/gray	>1 – 10 % Chrysotile	No	30	At HVAC units. Very minimal mastic at roof vent pipes (primarily bare metal to roof). NESHAP Category: Category 2 non-friable.
Roof felt, black gray	5 – 70 % Chrysotile	No	1,000	Damaged Condition. Observed in Attic space inside South building. NESHAP Category: Category 1 non-friable.
Asbestos cement (Transite) vent pipe	Assumed	No	1 lineal foot	Good condition. The pipe was observed outside the west wall of the South Building. buried in the ground. Approximately 1 foot of the pipe is exposed and it is approximately 4 inches in diameter. The vent pipe was not sampled as Transite is a known asbestos-containing material.

Based on the analytical report, the following materials were found to have asbestos concentrations less than one percent, but greater than 0.1%, and are therefore considered to be ACCM.

Table 3 – Summary of ACCMs

Building Material	Friable	Square Feet (Approx.)	Comments
Black mastic associated with 9 X 9 brown, speckled VFT	No	200	Good Condition. In select units only (primarily 1244 and 1250). The VFT was ACM (see Table 2). Concrete substrate.
Black mastic associated with 9 X 9 red VFT	No	150	Good Condition. In Unit 1240, Kitchen area only. The VFT was ACM (see Table 2). Concrete substrate.

Building Material	Friable	Square Feet (Approx.)	Comments
Window putty, cream and gray	No	30 windows	Good condition. Observed on all non-aluminum sliding windows. Primarily at the north side of the north building, and south side of the south building (Units 1248, 1250, 1252, 1254, 1238, 1242, 1244 and Storage Units at the west sides of the North and South Buildings. Additional analysis by 1,000-point count detected asbestos concentrations above 0.1%. Therefore, the window putty is considered an ACCM.

There was no access to the western storage units in both the North and South Buildings during the survey.

3.2 Lead

Based on the XRF readings, the following components were found to contain lead above the HUD definition of 1.0 mg/cm^2:

Table 4 – Summary of LBPs

Building Component	Paint Color	Paint Condition	Comments
Exterior			
Wood Upper Rafters	White	Poor	Rafters on upper portion of the roof, running north – south, on the North Building above Unit 1242. The paint was observed to be in poor condition and peeling.
Wood Window Components	White	Poor	Exterior wood window frames and sills outside the Storage Room and Units 1242 and 1244 on the north side of the North Building. The paint was observed to be in poor and peeling condition.
Interior			
Ceramic Sinks	White	Intact	Kitchen and Bathrooms of all units, except in Units 1242 (new) and 1244 (steel).

Lead above the HUD definition of 1.0 mg/cm^2 was not detected on any other exterior or interior components of the buildings. The XRF data table is provided in Appendix B.

3.3 PCBs

Converse collected one (1) sample of caulk from the damaged Kitchen ceiling in Unit 1244 of the North Building. This sample appeared to be representative of the oldest caulk present at the building. The sample was submitted to EMSL Laboratories for analysis for PCB's.

Laboratory analysis detected concentrations of PCBs (Aroclor-1254 – 2.9 mg/kg and Aroclor-1260 – 1.9 mg/kg) in the sample. These concentrations are below the regulatory level of 50 mg/kg so no further action is necessary.

4.0 Conclusions and Recommendations

4.1 Asbestos

The ACMs detected at the Property building must be abated prior to demolition. All abatement activities must be performed by a Cal-OSHA licensed asbestos abatement contractor using methods in accordance with 40 CFR, Part 61 (National Emission Standard for Hazardous Air Pollutants, NESHAP) – Subpart M (Asbestos), 29 CFR 1926.1101 (Federal OSHA Regulations regarding Asbestos), 8 CCR 1529 (California DOSH Regulations regarding Asbestos), and San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) Rule 4002. All asbestos abatement workers must have current 40-hour asbestos worker training documentation, current medical exams and releases, and current respirator fit tests for the use of personal protective equipment (PPE). A notification to the SJVUAPCD must be filed by the asbestos abatement contractor to the SJVUAPCD 10 working days prior to the start of the asbestos abatement project. No friable ACM, categorized by NESHAP as regulated asbestos-containing material (RACM) was identified at the subject site. Non-friable ACM, such as floor tile, mastic, and unbroken transite vent pipes may be disposed of as non-hazardous asbestos waste.

In accordance with 8 CCR 1529, ACCM, (materials containing between 0.1% and 1% asbestos) may only be disturbed by workers with the above-listed asbestos training, medical and respirator fit test documentation. As asbestos abatement would be required for this property prior to demolition, ACCMs can be included with the abatement of ACMs and be performed by a licensed asbestos abatement contractor utilizing properly trained workers, work practices, and engineering controls in accordance with 8 CCR 1529. As an alternative, ACCMs may be left in place during site demolition activities provided that the demolition contractor has 40-hour asbestos trained workers, with current medical and respirator training, and using appropriate engineering controls and work practices, such as wet methods, to minimize the release of asbestos fibers to the air. ACCM waste may be disposed of as non-regulated waste.

Converse recommends that asbestos abatement procedures be monitored by an independent third party or consultant knowledgeable in asbestos abatement procedures and is at a minimum, a Cal-OSHA certified Site Surveillance Technician or Certified Asbestos Consultant.

Any new materials should be assumed to contain asbestos, as well as any suspect materials that could potentially be encountered during demolition, until such time that they can be accessed, sampled and evaluated for asbestos content.

Quantities of ACM and ACCM presented in this report are for informational purposes only and not for bid solicitation. The asbestos abatement contractor shall be

responsible for estimating and verifying dimensions and quantities of ACMs and ACCMs to be abated.

4.2 Lead

Damaged (peeling) lead based paint is required to be stabilized prior to demolition activities that may impact the LBPs and/or LCMs in order to minimize exposure to lead by workers and to avoid possible contamination from loose paint chips. Stabilization consists of the removal of loose and peeling LBP (typically by wet scraping) leaving a smooth surface. An encapsulating agent is then applied to the smooth surface to lock down the remaining LBP. Intact painted surfaces do not require stabilization prior to renovation/remodeling or demolition and can be disposed of as non-regulated waste (architectural debris).

Paint stabilization activities must be performed by a state-licensed lead based paint abatement contractor using approved wet methods and engineering controls, and trained and certified lead workers prior to the renovation/remodeling or demolition of the building. The work must be performed in accordance with 8 CCR 1532.1 and Title 17 of the California Department of Health Services. LBP waste must be characterized prior to disposal in order to determine whether the waste constitutes a hazardous waste or non-hazardous waste. LCMs that become damaged, such as the ceramic wall tile, may be removed by a state-licensed lead abatement contractor. Waste generated by stabilization or abatement procedures must be characterized for lead contact in order to determine proper disposal methods.

Converse further recommends that lead paint stabilization or abatement procedures be monitored by an independent third party or consultant knowledgeable in lead abatement procedures and is a California DHS-Certified Lead Project Monitor.

4.3 PCBs

Concentrations of PCBs were detected in the sample of caulk submitted for laboratory analysis. However, the concentrations (2.9 and 1.9 mg/kg) were below the regulatory level of 50 mg/kg and therefore will not require special removal or disposal procedures.

5.0 Confidentiality and Limitations

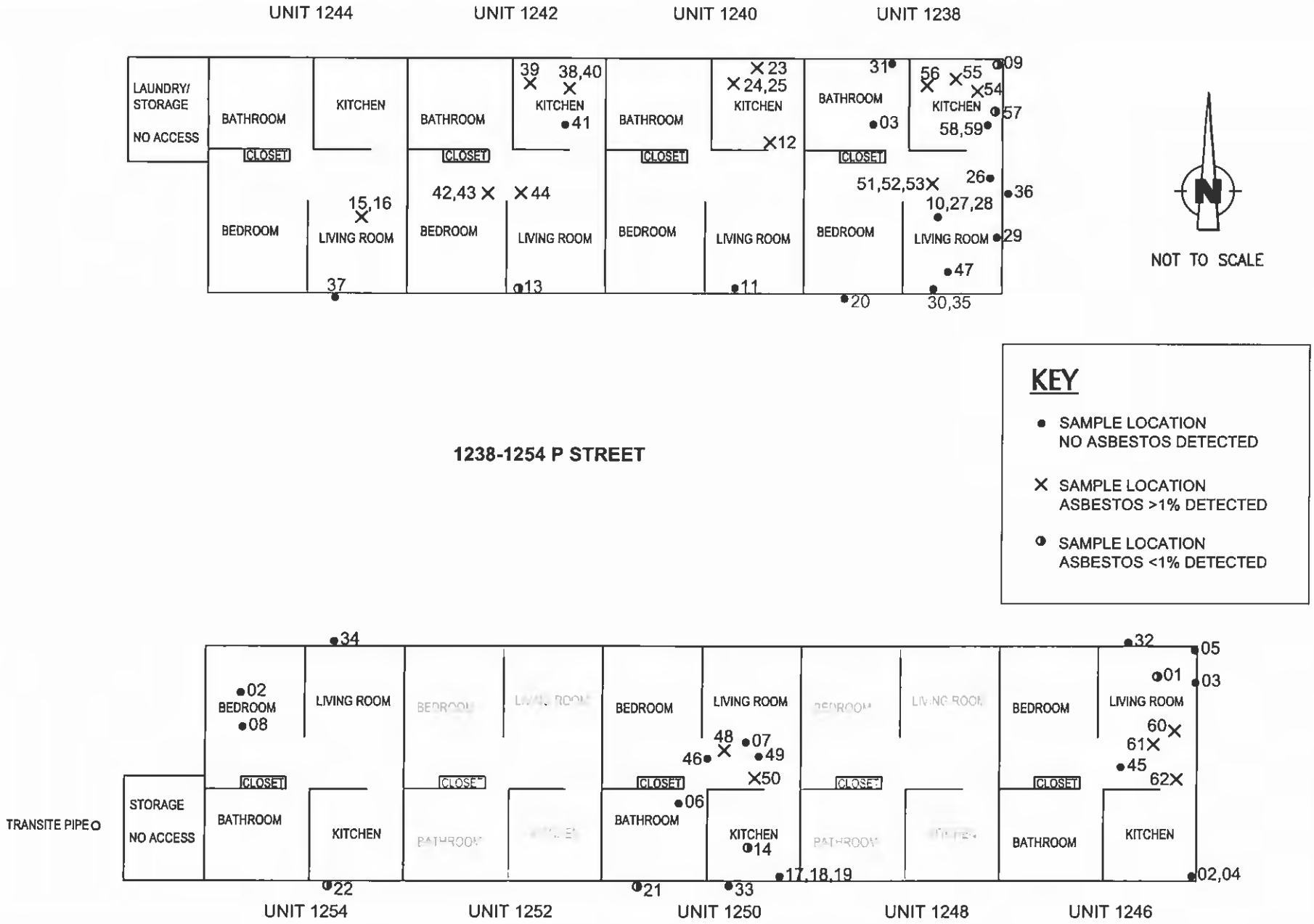
This report has been prepared for the sole benefit and exclusive use of the City of Firebaugh as it pertains to 1238 - 1254 P Street (APN 008-075-03), Firebaugh, California. Our services have been performed in accordance with generally accepted practices in the environmental sciences. No other warranty, either express or implied, is made.

Converse Consultants is not responsible or liable for any claims or damages associated with the accuracy or completeness of information provided by others. This report should not be regarded as a guarantee that further ACMs, ACCMS, LBPs, or PCBs, beyond that which were or were not detected in our survey, are present at the property. In the event that changes in the nature of the property occur, or additional relevant information about the property is brought to our attention, the conclusions and recommendations contained in this letter report may not be valid unless these changes and additional relevant information are reviewed and the conclusions of this letter report are modified or verified in writing. Reliance on this report by Third Parties shall be at the Third Party's sole risk.

Asbestos

Sample Location Maps, Analytical Report, & Chain of Custody Documentation

Appendix A



SAMPLE LOCATION MAP

Converse Consultants

CLIENT: CITY OF FIREBAUGH
1238-1254 P STREET
FIREBAUGH, CALIFORNIA

Project No.	Figure No.
08-11-115-02	1

Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CONVERSE CONSULTANTS
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MONROVIA, CALIFORNIA 91016
Account: N/A
Contact: GEORGE PALER
or HEIDI YAVORNICKY
Project No.: 08-11115-02

Date Received: 02/08/11
Date Analyzed: 02/12/11
Date Reported: 02/12/11
Reported To: GEORGE PALER
or HEIDI YAVORNICKY
Submitted By: DELIVERY SERVICE
Report No.: 71-187777
P. O. #: N/A

CITY OF FIREBAUGH

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187777A Mottled Cream Floor Tile 1246 Living Room	01-A	<1% Chrysotile	65% Carbonate Binders 20% Organic Binders 15% Mineral Cleavages	I F
187777B Brown Mastic 1246 Living Room	01-B	None Detected	70% Organic Binders 30% Mineral Cleavages	I NF
187778A Cream Grey Floor Tile 1254 Bedroom Center	02-A	None Detected	60% Carbonate Binders 25% Organic Binders 15% Mineral Cleavages	I NF
187778B Brown/Black Mastic 1254 Bedroom Center	02-B	None Detected	<1% Cellulose 80% Organic Binders 20% Mineral Cleavages	I F
187779A Cream Grey Floor Tile 1238 Bathroom Center	03-A	None Detected	65% Carbonate Binders 25% Organic Binders 10% Mineral Cleavages	I NF
187779B Tan/Black Mastic 1238 Bathroom Center	03-B	None Detected	<1% Cellulose 75% Organic Binders 25% Mineral Cleavages	I F

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RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187780A White Texture 1246 S.E. Corner Unit	04-A	None Detected	80% Carbonate Binders 20% Mineral Cleavages	I NF
187780B White Joint Compound 1246 S.E. Corner Unit	04-B	None Detected	10% Glass Fibers 70% Carbonate Binders 20% Mineral Cleavages	I F
187780C White Drywall 1246 S.E. Corner Unit	04-C	None Detected	10% Cellulose 30% Gypsum 60% Mineral Cleavages	I F
187781 Painted Drywall 1246 N.E. Corner Living	05	None Detected	10% Cellulose 30% Gypsum 50% Mineral Cleavages 10% Paint	I F
187782A White Surfacing 1250 Bathroom	06-A	None Detected	85% Carbonate Binders 15% Mineral Cleavages	I NF
187782B White Drywall 1250 Bathroom	06-B	None Detected	10% Cellulose 30% Gypsum 60% Mineral Cleavages	I F
187783 Cream Drywall 1250 Over Air Wall Unit	07	None Detected	10% Cellulose 30% Gypsum 55% Mineral Cleavages 5% Paint	I F
187784A White Surfacing 1254 Bedroom Ceiling	08-A	None Detected	85% Carbonate Binders 10% Mineral Cleavages 5% Perlite	I NF
187784B White Joint Compound 1254 Bedroom Ceiling	08-B	None Detected	85% Carbonate Binders 10% Mineral Cleavages 5% Perlite	I NF
187785A Cream Surfacing 1238 N.W. Corner	09-A	<1% Chrysotile	<1% Cellulose 60% Carbonate Binders 40% Mineral Cleavages	I F
187785B Cream Drywall 1238 N.W. Corner	09-B	None Detected	10% Cellulose 15% Carbonate Binders 30% Gypsum 45% Mineral Cleavages	I F
187786A Cream Surfacing 1238 Ceiling Living Room Center	10-A	None Detected	85% Carbonate Binders 10% Mineral Cleavages 5% Perlite	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187786B Cream Pink Drywall 1238 Ceiling Living Room Center	10-B	None Detected	5% Wood Fibers 15% Carbonate Binders 30% Gypsum 50% Mineral Cleavages	I F
187787 Cream Texture 1240 at Front Door	11	None Detected	15% Carbonate Binders 30% Mineral Cleavages 55% Paint	I NF
187788A Cream Texture 1240 Kitchen Wall	12-A	>1-3% Chrysotile	80% Carbonate Binders 17% Mineral Cleavages	I F
187788B White Drywall 1240 Kitchen Wall	12-B	None Detected	10% Cellulose 30% Gypsum 60% Mineral Cleavages	I F
187789 Cream Texture 1242 Living Room S.W. Corner	13	<1% Chrysotile	<1% Cellulose 20% Carbonate Binders 55% Mineral Cleavages 25% Paint	I F
187790A Light Cream Self-stick Tile 1250 Kitchen Area	14-A	None Detected	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I NF
187790B Dark Cream Floor Tile 1250 Kitchen Area	14-B	None Detected	<1% Cellulose 65% Carbonate Binders 20% Organic Binders 15% Mineral Cleavages	I F
187790C Tan/Black Mastic 1250 Kitchen Area	14-C	<1% Chrysotile	5% Cellulose 75% Organic Binders 20% Mineral Cleavages	I F
187791 Tan Floor Tile 1244 Living Room Center	15	3-5% Chrysotile	20% Carbonate Binders 30% Organic Binders 45% Mineral Cleavages	I F
187792 Tan Floor Tile 1244 Living Room Center	16	3-5% Chrysotile	20% Carbonate Binders 30% Organic Binders 45% Mineral Cleavages	I F
187793 Cream Leveling Compound 1250 S.W. Corner	17	None Detected	75% Carbonate Binders 20% Mineral Cleavages 5% Perlite	I NF
187794 Cream Leveling Compound 1250 S.W. Corner	18	None Detected	<1% Cellulose <1% Synthetic Fibers 75% Carbonate Binders 20% Mineral Cleavages 5% Perlite	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187795 Cream Leveling Compound 1250 S.W. Corner	19	None Detected	75% Carbonate Binders 20% Mineral Cleavages 5% Perlite	I NF
187796 Cream Window Putty 1238 Front Door Area	20	None Detected	60% Carbonate Binders 20% Mineral Cleavages 20% Perlite	I NF
187797 Grey Window Putty 1250 S. Side	21	<1% Chrysotile	<1% Cellulose 75% Carbonate Binders 20% Organic Binders 5% Mineral Cleavages	I F
187798 Grey Window Putty 1254 S Side	22	<1% Chrysotile	<1% Cellulose 80% Carbonate Binders 15% Organic Binders 5% Mineral Cleavages	I F
187799A Red Floor Tile Kitchen Sink Area	23-A	5-10% Chrysotile	40% Carbonate Binders 20% Organic Binders 30% Mineral Cleavages	I F
187799B Black Mastic Kitchen Sink Area	23-B	<1% Chrysotile	80% Organic Binders 20% Mineral Cleavages	I F
187800A Red Floor Tile Kitchen W. Side	24-A	3-5% Chrysotile	40% Carbonate Binders 25% Organic Binders 30% Mineral Cleavages	I F
187800B Black Mastic Kitchen W. Side	24-B	<1% Chrysotile	5% Cellulose 75% Organic Binders 20% Mineral Cleavages	I F
187801A Red Floor Tile Kitchen W. Side	25-A	3-5% Chrysotile	40% Carbonate Binders 20% Organic Binders 35% Mineral Cleavages	I F
187801B Black Mastic Kitchen W. Side	25-B	<1% Chrysotile	75% Organic Binders 25% Mineral Cleavages	I F
187802 Grey Cream Insulation E. Hatch	26	None Detected	98% Processed 1% Mineral Cleavages 1% Paint	I F
187803 Grey Cream Insulation 1238 Living Room	27	None Detected	95% Processed 3% Organic Binders 1% Mineral Cleavages 1% Paint	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187804 Grey Cream Insulation 1238 Living Room	28	None Detected	98% Processed 1% Mineral Cleavages 1% Paint	I F
187805 Black/Tan Vapor Barrier 1238 E. Wall Living Room	29	None Detected	85% Processed 15% Organic Binders	I F
187806 Black/Tan Vapor Barrier 1238 S. Wall Living Room	30	None Detected	80% Processed 20% Organic Binders <1% Mineral Cleavages	I F
187807 Black/Tan Vapor Barrier 1238 Bathroom N. Wall	31	None Detected	80% Processed 20% Organic Binders <1% Mineral Cleavages	I F
187808 Grey Stucco Outside 1246 Front Door	32	None Detected	<1% Cellulose 30% Sulfate Binders 60% Mineral Cleavages 10% Paint	I F
187809 Grey Stucco Outside 1250 S. Side	33	None Detected	30% Sulfate Binders 60% Mineral Cleavages 10% Paint	I NF
187810 Grey Stucco Outside 1254 at Front Door	34	None Detected	<1% Cellulose 30% Sulfate Binders 60% Mineral Cleavages 10% Paint	I F
187811 Grey Stucco Outside 1238 at Front Door	35	None Detected	<1% Cellulose 30% Sulfate Binders 70% Mineral Cleavages	I F
187812 Grey Stucco Outside 1238 E. Wall Center	36	None Detected	30% Sulfate Binders 70% Mineral Cleavages	I NF
187813 Grey Stucco Outside 1244 Front Door	37	None Detected	30% Sulfate Binders 70% Mineral Cleavages	I NF
187814A Blue Floor Tile 1242 Kitchen Center	38-A	5-10% Chrysotile	40% Carbonate Binders 20% Organic Binders 30% Mineral Cleavages	I F
187814B Black Mastic 1242 Kitchen Center	38-B	3-5% Chrysotile	70% Organic Binders 25% Mineral Cleavages	I F
187815A Blue Floor Tile 1242 Kitchen West	39-A	3-5% Chrysotile	40% Carbonate Binders 20% Organic Binders 35% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187815B Black Mastic 1242 Kitchen West	39-B	3-5% Chrysotile	<1% Cellulose 75% Organic Binders 20% Mineral Cleavages	I F
187816A Blue Floor Tile 1242 Kitchen Center	40-A	5-10% Chrysotile	35% Carbonate Binders 20% Organic Binders 35% Mineral Cleavages	I F
187816B Black Mastic 1242 Kitchen Center	40-B	3-5% Chrysotile	75% Organic Binders 20% Mineral Cleavages	I F
187817 Grey Floor Tile 1242 Kitchen	41	None Detected	70% Carbonate Binders 25% Organic Binders 5% Mineral Cleavages	I NF
187818A Tan Floor Tile 1242 Bedroom	42-A	5-10% Chrysotile	35% Carbonate Binders 25% Organic Binders 30% Mineral Cleavages	I F
187818B Black Mastic 1242 Bedroom	42-B	3-5% Chrysotile	70% Organic Binders 25% Mineral Cleavages	I F
187819A Tan Floor Tile 1242 Bedroom	43-A	3-5% Chrysotile	30% Carbonate Binders 25% Organic Binders 40% Mineral Cleavages	I F
187819B Black Mastic 1242 Bedroom	43-B	3-5% Chrysotile	5% Cellulose 70% Organic Binders 20% Mineral Cleavages	I F
187820A Tan Floor Tile 1242 Living Room	44-A	3-5% Chrysotile	35% Carbonate Binders 20% Organic Binders 40% Mineral Cleavages	I F
187820B Black Mastic 1242 Living Room	44-B	3-5% Chrysotile	75% Organic Binders 20% Mineral Cleavages	I F
187821A Black Shingle Over 1246	45-A	None Detected	20% Glass Fibers 40% Organic Binders 20% Aggregate 20% Mineral Cleavages	I F
187821B Black Felt Over 1246	45-B	None Detected	80% Cellulose 15% Organic Binders 5% Mineral Cleavages	I F
187821C Black Shingle Over 1246	45-C	None Detected	20% Glass Fibers 35% Organic Binders 20% Aggregate 25% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187821D Black Felt Over 1246	45-D	None Detected	80% Cellulose 20% Organic Binders	I F
187822A Black Shingle Over 1250	46-A	None Detected	25% Glass Fibers 25% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187822B Black Shingle Over 1250	46-B	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187822C Black Felt Over 1250	46-C	None Detected	85% Cellulose 15% Organic Binders <1% Mineral Cleavages	I F
187822D Black Felt Over 1250	46-D	None Detected	85% Cellulose 15% Organic Binders <1% Mineral Cleavages	I F
187823A Black Shingle Over 1238	47-A	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187823B Black Shingle Over 1238	47-B	None Detected	20% Glass Fibers 30% Organic Binders 20% Aggregate 30% Mineral Cleavages	I F
187823C Black Felt Over 1238	47-C	None Detected	85% Cellulose 15% Organic Binders <1% Mineral Cleavages	I F
187824 Black Roof Mastic Over 1250 Former HVAC Area	48	5-10% Chrysotile	5% Cellulose 70% Organic Binders 15% Mineral Cleavages	I F
187825 Black Mastic Over 1250 Former HVAC Area	49	None Detected	10% Cellulose 60% Organic Binders 30% Mineral Cleavages	I F
187826 Black Mastic Over 1250 Former HVAC Area	50	>1-3% Chrysotile	7% Cellulose 70% Organic Binders 20% Mineral Cleavages	I F
187827 Grey Floor Tile 1238 S. Center	51	>1-3% Chrysotile	37% Carbonate Binders 20% Organic Binders 40% Mineral Cleavages	I F
187828 Grey Floor Tile 1238 S. Center	52	>1-3% Chrysotile	37% Carbonate Binders 20% Organic Binders 40% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
187829 Grey Floor Tile 1238 S. Center	53	>1-3% Chrysotile	37% Carbonate Binders 20% Organic Binders 40% Mineral Cleavages	I F
187830A Green Floor Tile 1238 Kitchen E.	54-A	3-5% Chrysotile	40% Carbonate Binders 30% Organic Binders 25% Mineral Cleavages	I F
187830B Black Mastic 1238 Kitchen E.	54-B	>1-3% Chrysotile	82% Organic Binders 15% Mineral Cleavages	I F
187831A Green Floor Tile 1238 Kitchen Center	55-A	5-10% Chrysotile	35% Carbonate Binders 30% Organic Binders 25% Mineral Cleavages	I F
187831B Black Mastic 1238 Kitchen Center	55-B	3-5% Chrysotile	65% Organic Binders 30% Mineral Cleavages	I F
187832A Green Floor Tile 1238 Kitchen W.	56-A	3-5% Chrysotile	40% Carbonate Binders 25% Organic Binders 30% Mineral Cleavages	I F
187832B Black Mastic 1238 Kitchen W.	56-B	>1-3% Chrysotile	<1% Cellulose 77% Organic Binders 20% Mineral Cleavages	I F
187833A Black Floor Tile 1238 Kitchen E.	57-A	None Detected	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I NF
187833B Black Mastic 1238 Kitchen E.	57-B	>1-3% Chrysotile	<1% Cellulose 75% Organic Binders 24% Mineral Cleavages	I F
187834A Black Floor Tile 1238 Kitchen E.	58-A	None Detected	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I NF
187834B Tan Mastic 1238 Kitchen E.	58-B	None Detected	<1% Talc 80% Organic Binders 20% Mineral Cleavages	I F
187835A Black Floor Tile 1238 Kitchen E.	59-A	None Detected	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I NF
187835B Tan Mastic 1238 Kitchen E.	59-B	None Detected	<1% Cellulose 80% Organic Binders 20% Mineral Cleavages	I F
187836A Black Roofing E. Hatch	60-A	None Detected	20% Cellulose 30% Organic Binders 50% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER H-H APPEARANCE F-NF
187836B Black Roofing E. Hatch	60-B	None Detected	40% Cellulose 30% Organic Binders 30% Mineral Cleavages	I F
187836C Black Roofing E. Hatch	60-C	45-55% Chrysotile	20% Organic Binders 25% Mineral Cleavages	I F
187836D Black Roofing E. Hatch	60-D	None Detected	55% Cellulose 20% Organic Binders 25% Mineral Cleavages	I F
187837A Black Roofing E. Hatch	61-A	None Detected	45% Cellulose 35% Organic Binders 20% Mineral Cleavages	I F
187837B Black Roofing E. Hatch	61-B	None Detected	40% Cellulose 30% Organic Binders 30% Mineral Cleavages	I F
187837C Black Roofing E. Hatch	61-C	60-70% Chrysotile	5% Cellulose 20% Organic Binders 5% Mineral Cleavages	I F
187837D Black Roofing E. Hatch	61-D	None Detected	50% Cellulose <1% Glass Fibers 30% Organic Binders 20% Mineral Cleavages	I F
187838A Black Roofing E. Hatch	62-A	5-10% Chrysotile	10% Cellulose 50% Organic Binders 30% Mineral Cleavages	I F
187838B Black Roofing E. Hatch	62-B	None Detected	55% Cellulose 30% Organic Binders 15% Mineral Cleavages	I F
187838C Black Roofing E. Hatch	62-C	None Detected	30% Cellulose 30% Organic Binders 40% Mineral Cleavages	I F
187838D Black Roofing E. Hatch	62-D	<1% Chrysotile	30% Cellulose 35% Organic Binders 35% Mineral Cleavages	I F
187838E Black Roofing E. Hatch	62-E	50-60% Chrysotile	5% Cellulose 30% Organic Binders 5% Mineral Cleavages	I F
187838F Black Roofing E. Hatch	62-F	None Detected	60% Cellulose 25% Organic Binders 15% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants follows EPA Method EPA/600/R-93/116, July 1993 and EPA/600/M4-82-020, December 1982.

Each sample was initially examined under a stereoscopic microscopic at a magnification of 10x to 50x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages. Per the method, samples with distinct layers or inhomogenous character have each layer analyzed separately and reported as individual layers. (I – Inhomogeneous, H – Homogeneous, F – Fibrous, NF – Non-Fibrous)

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: 12x12 Brown Speckled VFT (1235-1254)

Sample Number	Location	Area Sq. Ft.	Condition
01	1246 Living room 187777	4,000 total	Good
02	1254 Bedroom center 187778	↓	↓
03	1238 Bathroom Center 187779	↓	↓

Friability:	Friable	~~Non-Friable~~	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	~~High~~ Good	Moderate	Low
Damage Assessment:		Damaged	Significantly Damaged

COMMENTS:

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-01 Date: February 2, 2011

HOMOGENEOUS MATERIAL: drywall/TC walls/ceilings S. Bldg.

Sample Number	Location	Area Sq. Ft.	Condition
04	1246 SE Corner unit 187780	2,000 total	Good
05	1246 NE Corner (Living) 187781		
06	1250 Bathroom 187782		
07	1250 over air wall unit 187783		
08	1254 Bedroom Ceiling 187784		

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	(Low)
Potential for Air Erosion:	(High)	Moderate	25
Damage Assessment:	Good	Damaged	Significantly Damaged

COMMENTS: Select walls/ceilings in units. Remaining walls Concrete block.

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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115- 02

Date: February 2, 2011

HOMOGENEOUS MATERIAL: Drywall / JT walls, Ceilings (N Bldg).

Sample Number	Location	Area Sq. Ft.	Condition
09	1238 NE Corner 187785	2,800 Each	Good
10	1238 Ceiling Living room Center 187786		
11	1240 @ Front Door 187787		
12	1240 Kitchen wall 187788		
13	1242 Living room SW Corner 187789		

Friability: Friable / Non-Friable
Potential for Contact with Material: High / Moderate
Influence of Vibration: High / Moderate
Potential for Air Erosion: High / Moderate
Damage Assessment: Good / Damaged

Low / Low / Low — Significantly Damaged

COMMENTS:

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: 9x9 Brown speckled VFT & mastic

Sample Number	Location	Area Sq. Ft.	Condition
14	1250 Kitchen center 187790	200 total	Good
15	1244 Living room center 187791		
16	1244 Living room center 187792		

Friability: Friable / ~~Non-Friable~~
Potential for Contact with Material: High / Moderate
Influence of Vibration: High / Moderate
Potential for Air Erosion: High / Moderate
Damage Assessment: ~~Good~~ / Damaged

Low
Low
Low
Significantly Damaged

COMMENTS:

At Sample 14- In 1250 Kitchen. area is broken 12x12 Brown speckled VFT. Also applied separately Concrete substrate. Black mastic

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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115-02

Date: February 2, 2011

HOMOGENEOUS MATERIAL: Leveling compound

Sample Number	Location	Area Sq. Ft.	Condition
17	1250 SE Corner 187793	5 total	Good
18	↓ 187794	↓	↓
19	↓ 187795	↓	↓

Friability:
Potential for Contact with Material:
Influence of Vibration:
Potential for Air Erosion:
Damage Assessment:

Friable / Non-Friable
High / Moderate
High / Moderate
High / Moderate
Good / Damaged

Low / Low / Low — Significantly Damaged

COMMENTS:

S. Side of 1250 only. Between 2 layers of LFT. Unlik in color.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Window Putty (1238-1254)

Sample Number	Location	Area Sq. Ft.	Condition
20	1238 Front door area 187796	30 total	Good
21	1250 S side 187797	↓	↓
22	1254 S side 187798	↓	↓

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment:	(Good)	Damaged	Significantly Damaged

COMMENTS:

Observed on all non-aluminum sliding windows (primarily N windows & S windows).
↳ N Bldg. ↳ S. Bldg).
white or gray depending on window trim.

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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115-02

Date: February 2, 2011

HOMOGENEOUS MATERIAL: Red 9x9 VFT + mastic (1240)

Sample Number	Location	Area Sq. Ft.	Condition
23	Kitchen sink area 187799	150 total	Good
24	Kitchen W side 187800	〃	〃
25	Kitchen W side 187801	〃	〃

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	Good	Damaged	Significantly Damaged

COMMENTS:

In 1240 Kitchen Area only

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Blown in insulation (N Bldg).

Sample Number	Location	Area Sq. Ft.	Condition
26	E Hatch 187802	2,750 sq ft	Good
27	1238 Living room 187803	↓	↓
28	1238 Living room 187804	↓	↓

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	(Good)	Damaged	Significantly Damaged

COMMENTS:

Brown color.

Blown-in insulation in S Bldg. New and not suspect.

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Vapor Barrier Paper (N' Bldg).

Sample Number	Location	Area Sq. Ft.	Condition
29	1238 E wall Living Room 187805	2,500 total	Good
30	1238 S wall Living Room 187806	〃	〃
31	1238 Bathroom N wall 187807	〃	〃

Friability:	Friable	~~Non-Friable~~	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment:	~~Good~~	Damaged	~~Low~~ Significantly Damaged

COMMENTS:

Observed 2 exterior fencing (non-interior fencing) walls.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Exterior Stucco (S. Bldg).

Sample Number	Location	Area Sq. Ft.	Condition
32	Outside 1246 Front Door 187808	3000 total	Good
33	Outside 1250 S. Side 187809		
34	Outside 1254 Front Door 187810		

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	Damaged	Damaged	Significantly Damaged

COMMENTS:

over common brick. Blue/gray color.

@ Exterme East side cover w/ wood panelling.

Termite pipe outside to wall.

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No : 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Exterior Stucco (W. Bldg.)

Sample Number	Location	Area Sq. Ft.	Condition
35	Outside 123 f. Door 187311	2,100	Good
36	Outside 123 E. Wall (Bank 187312)		
37	Outside 1244 Front Door 187313		

Friability:	Friable	~~Non-Friable~~	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	~~Good~~	Damaged	Significantly Damaged

COMMENTS:

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115-02

Date: February 2, 2011

HOMOGENEOUS MATERIAL: Blue 9x9 VFT & mastic (1242)

Sample Number	Location	Area Sq. Ft.	Condition
38	1242 Kitchen Center 187814	150 total	Good
39	1242 Kitchen West 187815	↓	↓
40	1242 Kitchen Center 187816		

Friability: Friable / Non-Friable
Potential for Contact with Material: High / Moderate
Influence of Vibration: High / Moderate
Potential for Air Erosion: High / Moderate
Damage Assessment: Good / Damaged

Low
Low
Low
Significantly Damaged

COMMENTS:

In 1242 Kitchen only.

CHAIN OF CUSTODY:

Relinquished By: _____ Time: 2/7/11 Date: for overnight mail
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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: 9x9 gray speckled VFT + mastic (1242)

Sample Number	Location	Area Sq. Ft.	Condition
41	1242 Kitchen 187817	3 total	Good

Friability:	Friable	~~Non-Friable~~
Potential for Contact with Material:	High	Moderate
Influence of Vibration:	High	Moderate
Potential for Air Erosion:	High	Moderate
Damage Assessment:	Good	Damaged

Low
Low
Low
Significantly Damaged

COMMENTS:

In 1242 w refrigerator at patch

CHAIN OF CUSTODY

Relinquished By:		Time: 2/7/11	Date: For overnight mail
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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115-02

Date: February 02, 2011

HOMOGENEOUS MATERIAL: 9x9 Cream w/red+ yellow VFT + MASTIC (1242)

Sample Number	Location	Area Sq. Ft.	Condition
42	1242 Bedroom 187818	350 total	Good
43	1242 Bedroom 187819	〃	〃
44	1242 Living room 187820	〃	〃

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	Good	Damaged	Significantly Damaged

COMMENTS:

In 1242 - Living room & bedroom.
Tile is beneath carpet in Living room.
12x12 VFT Brown speckled in other areas. or 9x9 (Kitchen).

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115-02 Date: February 2, 2011

HOMOGENEOUS MATERIAL: Roof Core (1238 - 1254)

Sample Number	Location	Area Sq. Ft.	Condition
45	Over 1246 187821	5,500	Good
46	Over 1250 187822	〃	〃
47	Over 1238 187823	〃	〃

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	
Influence of Vibration:	High	Moderate	
Potential for Air Erosion:	High	Moderate	
Damage Assessment:	(Good)	Damaged	(Low) (Significant) Significantly Damaged

COMMENTS:

CHAIN OF CUSTODY

Relinquished By: [signature] Time: 2/3/11 Date: for overnight mail
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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115- 02

Date: February 2, 2011

HOMOGENEOUS MATERIAL: LVAC roof mastic

Sample Number	Location	Area Sq. Ft.	Condition
48	Over 1250 former LVAC 187324 area	30 total	Good
49	187325	〃	〃
50	187326	〃	〃

Friability:	Friable	Non-Friable	
Potential for Contact with Material:	High	Moderate	Low
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment:	Good	Damaged	Significantly Damaged

COMMENTS:

Very minimal mastic @ vent pipes.

Black / gray color.

CHAIN OF CUSTODY

Relinquished By: _____ Time: 2/7/11 Date: for overnight mail

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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115-07

Date: February 2, 2011

HOMOGENEOUS MATERIAL: 9X9 Brown Streaked VFT (1238) w/ mastic

Sample Number	Location	Area Sq. Ft.	Condition
S1	1238 S Center 187227	10 total	Good
S2	187228		
S3	187229		

Friability: Friable / Non-Friable
Potential for Contact with Material: High / Moderate
Influence of Vibration: High / Moderate
Potential for Air Erosion: High / Moderate
Damage Assessment: Damaged / Significantly Damaged

COMMENTS:

12x12 Brown Streaked VFT in the living. under rugs in Bedroom / Liv room.

CHAIN OF CUSTODY

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Received By: _____ Time: _____ Date: _____
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BULK SAMPLE LOG

Project Name: City of Firebaugh Collected By: HLY/GJP

Project No.: 08-11-115- 07 Date: February 2, 2011

HOMOGENEOUS MATERIAL: 9x9 Green VFT + Mastic (1238)

Sample Number	Location	Area Sq. Ft.	Condition
54	1238 Kitchen E 197330	100 total	Good
55	1238 Kitchen Center 197331		2
56	1238 Kitchen W 197332		

Friability: Friable / Non-Friable
Potential for Contact with Material: High / Moderate
Influence of Vibration: High / Moderate
Potential for Air Erosion: High / Moderate
Damage Assessment: Good / Damaged / Significantly Damaged

COMMENTS:

Primary in Kitchen (main floor tile).

CHAIN OF CUSTODY

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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115-02

Date: February 7, 2011

HOMOGENEOUS MATERIAL: 9x9 Black VFT w/ mastic (1238)

Sample Number	Location	Area Sq. Ft.	Condition
57	1238 Kitchen E 187333	10 total	Good
58	187334	↓	↓
59	187335	↓	↓

Friability:	Friable	~~Non-Friable~~
Potential for Contact with Material:	High	Moderate
Influence of Vibration:	High	Moderate
Potential for Air Erosion.	High	Moderate
Damage Assessment:	~~Broken~~	Damaged

~~Low~~ ~~Low~~ ~~Low~~ Significantly Damaged

COMMENTS:

E side of 1238 Kitchen.

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BULK SAMPLE LOG

Project Name: City of Firebaugh

Collected By: HLY/GJP

Project No.: 08-11-115- 02

Date: February 2, 2011

HOMOGENEOUS MATERIAL: Roof felt in attic space (S. Bldg)

Sample Number	Location	Area Sq. Ft.	Condition
60	E Hatch 187336	1,000 sq ft	Good
61	187337	↓	↓
62	187338	↓	↓

Friability:	Friable	(Non-Friable)	
Potential for Contact with Material:	High	Moderate	(Low)
Influence of Vibration:	High	Moderate	Low
Potential for Air Erosion:	High	Moderate	Low
Damage Assessment	(Good)	Damaged	Significantly Damaged

COMMENTS:

Ground 2 E side only

CHAIN OF CUSTODY

Relinquished By: _____ Time: 2/7/11 Date: for overnight mail

Received By: _____ Time: _____ Date: _____

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

POINT COUNT

Client: CONVERSE CONSULTANTS
222 E. HUNTINGTON DRIVE, STE. 211
MONROVIA, CALIFORNIA 91016
Account: N/A
Contact: GEORGE PALER
or HEIDI YAVORNICKY
Project No.: 08-11115-02

Date Received: 02/08/11
Date Analyzed: 02/28/11
Date Reported: 02/28/11
Reported To: GEORGE PALER
or HEIDI YAVORNICKY
Submitted By: DELIVERY SERVICE
Report No.: 71-188122
P. O. #: N/A

CITY OF FIREBAUGH

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
188122 Mottled Cream Floor Tile 1246 Living Room	01-A (Old Lab # 187777A)	<0.1% Chrysotile	–	–
188123 Grey Window Putty 1250 S. Side	21 (Old Lab # 187797)	0.1% Chrysotile	–	–
188124 Grey Window Putty 1254 S. Side	22 (Old Lab # 187798)	0.1% Chrysotile	–	–

As these results represent a point count, this report supercedes the previous analysis results.

4840 Mill Street, Suite 5
Reno, Nevada 89502
Telephone (775) 856-3833 ◆ Fax (775) 856-3513

4708 Roseville Road, Suite 114
North Highlands, California 95660
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www.ConverseConsultants.com

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants follows EPA Method EPA/600/R-93/116, July 1993 and EPA/600/M4-82-020, December 1982.

Each sample was initially examined under a stereoscopic microscopic at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages. Per the method, samples with distinct layers or inhomogenous character have each layer analyzed separately and reported as individual layers. (I – Inhomogeneous, H – Homogeneous, F – Fibrous, NF – Non-Fibrous)

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

Converse Consultants is National Voluntary Laboratory Accreditation Program accredited. Our NVLAP Lab Code: 102091-0. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report must not be reproduced except in full without the approval of the laboratory. This report relates only to the items tested.

1239 – 1254 P St Sample	1st Analysis	Duplicate	Replicate
187780 A-C	N.D.	N.D.	
187790 A+B	N.D.	N.D.	N.D.
187790 C	<1% Chry	<1%Chry	<1% Chry
187800 A	3-5% Chry	3-5% Chry	
187800 B	<1% Chry	<1% Chry	
187810	N.D.	N.D.	
187820 A+B	3-5% Chry	3-5% Chry	5-10% Chry
187830 A	3-5% Chry	5-10% Chry	3-5% Chry
187830 B	>1-3% Chry	>1-3% Chry	>1-3% Chry
1435 14Th			
187840	N.D.	N.D.	
187850	N.D.	N.D.	
187860	N.D.	N.D.	
187870 A	>1-3% Chry	>1-3% Chry	>1-3% Chry
187870 B	<1% Chry	<1% Chry	<1% Chry
1381 14th			
187880	5-15% Chry	10-20% Chry	10-20% Chry
1458 11th St			
187890 A+B	N.D.	N.D.	N.D.
187900	N.D.	N.D.	
187910 A-C	N.D.	N.D.	N.D.

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Lead
XRF Data Table

Appendix B

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1238 - 1254 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
249	2/2/2011 9:32	WALL	WOOD	SOUTH	POOR	LT. BLUE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
250	2/2/2011 9:33	WINDOW CASING	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
251	2/2/2011 9:33	CORNER POST	WOOD	SOUTH	POOR	LT. BLUE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.03
252	2/2/2011 9:37	OUTER FASCIA	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
253	2/2/2011 9:38	EAVES	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
254	2/2/2011 9:38	RAFTERS	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
255	2/2/2011 9:39	INNER FASCIA	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
256	2/2/2011 9:40	LOWER WALL	WOOD	EAST	PEELING	GRAY	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
257	2/2/2011 9:42	UPPER WALL	WOOD	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
258	2/2/2011 9:42	UPPER WALL TRIM	WOOD	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
259	2/2/2011 9:45	HATCH FRAME	WOOD	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
260	2/2/2011 9:45	HATCH	WOOD	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.04
261	2/2/2011 9:47	OUTER FASCIA	WOOD	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
262	2/2/2011 9:47	EAVES	WOOD	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
263	2/2/2011 9:48	RAFTERS	WOOD	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0.01	0.09
264	2/2/2011 9:49	INNER FASCIA	WOOD	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
265	2/2/2011 9:53	WALL	WOOD	NORTH	PEELING	GRAY	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0.01	0.06
266	2/2/2011 9:54	CORNER POST	WOOD	NORTH	FAIR	GRAY	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
267	2/2/2011 10:04	WALL	WOOD	NORTH	FAIR	LT. BLUE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
268	2/2/2011 10:05	WINDOW CASING	WOOD	NORTH	PEELING	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
269	2/2/2011 10:05	DOOR FRAME	WOOD	NORTH	PEELING	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.03
270	2/2/2011 10:07	DOOR	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
271	2/2/2011 10:12	WINDOW CASING	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
272	2/2/2011 10:15	WALL	STUCCO	NORTH	INTACT	GRAY	1238-1254 P STREET	FIRST	UNIT 1246	EXTERIOR	Negative	0	0.02
273	2/2/2011 10:18	WALL	STUCCO	SOUTH	INTACT	GRAY	1238-1254 P STREET	FIRST	UNIT 1250	EXTERIOR	Negative	0	0.02
274	2/2/2011 10:21	WINDOW FRAME	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1250	EXTERIOR	Negative	0.18	0.24
275	2/2/2011 10:22	WINDOW FRAME LG.	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1250	EXTERIOR	Negative	0.18	0.29
276	2/2/2011 10:22	WINDOW FRAME LG.	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1248	EXTERIOR	Null	0.6	1
277	2/2/2011 10:23	WINDOW FRAME LG.	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1248	EXTERIOR	Negative	0.6	0.3
278	2/2/2011 10:23	WINDOW FRAME	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1248	EXTERIOR	Negative	0.1	0.18
279	2/2/2011 10:27	OUTER FASCIA	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 125O	EXTERIOR	Negative	0	0.03
280	2/2/2011 10:28	EAVES	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 125O	EXTERIOR	Negative	0	0.02
281	2/2/2011 10:29	RAFTERS	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 125O	EXTERIOR	Negative	0	0.02
282	2/2/2011 10:29	WINDOW CASING	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 125O	EXTERIOR	Negative	0.02	0.11
283	2/2/2011 10:31	DOOR FRAME	METAL	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 125O	EXTERIOR	Negative	0.26	0.36
284	2/2/2011 10:31	DOOR	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 125O	EXTERIOR	Negative	0	0.03
285	2/2/2011 10:36	WALL	STUCCO	NORTH	FAIR	GRAY	1238-1254 P STREET	FIRST	UNIT 125O	EXTERIOR	Negative	0	0.02

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1238 - 1254 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
286	2/2/2011 10:38	WALL	STUCCO	NORTH	FAIR	GRAY	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.03	0.04
287	2/2/2011 10:39	DOOR FRAME	METAL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.16	0.23
288	2/2/2011 10:39	DOOR	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0	0.02
289	2/2/2011 10:40	WINDOW CASING	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0	0.02
290	2/2/2011 11:18	WALL	STUCCO	NORTHWEST	INTACT	GRAY	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.01	0.02
291	2/2/2011 11:19	DOOR	WOOD	NORTHWEST	PEELING	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.17	0.22
292	2/2/2011 11:20	DOOR FRAME	METAL	NORTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.16	0.18
293	2/2/2011 11:21	OUTER FASCIA	WOOD	NORTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0	0.02
294	2/2/2011 11:22	EAVES	WOOD	NORTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0	0.02
295	2/2/2011 11:22	RAFTERS	WOOD	NORTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0	0.02
296	2/2/2011 11:23	VENT FRAME	WOOD	NORTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0	0.02
297	2/2/2011 11:23	UPPER WALL	WOOD	NORTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0	0.02
298	2/2/2011 11:25	WALL	STUCCO	WEST	INTACT	GRAY	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.02	0.08
299	2/2/2011 11:27	WINDOW FRAME	METAL	SOUTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.08	0.1
300	2/2/2011 11:27	WINDOW FRAME	METAL	SOUTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.18	0.25
301	2/2/2011 11:28	WINDOW FRAME LG.	METAL	SOUTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1254	EXTERIOR	Negative	0.3	0.43
302	2/2/2011 11:32	WALL	STUCCO	EAST	INTACT	GRAY	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
303	2/2/2011 11:32	WINDOW CASING	WOOD	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
304	2/2/2011 11:33	UPPER WALL	WOOD	EAST	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.15	0.3
305	2/2/2011 11:36	FASCIA	WOOD	EAST	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.05	0.11
306	2/2/2011 11:37	EAVES	WOOD	EAST	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.05	0.1
307	2/2/2011 11:42	WINDOW CASING	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
308	2/2/2011 11:44	PORTICO CEILING	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.05	0.11
309	2/2/2011 11:45	PORTICO RAFTERS	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.17	0.27
310	2/2/2011 11:45	PORTICO FRAME	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.21	0.25
311	2/2/2011 11:46	PORTICO POSTS	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
312	2/2/2011 11:47	WINDOW SILL	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
313	2/2/2011 11:48	WINDOW SASH LOW	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.03
314	2/2/2011 11:48	WINDOW SASH LOW	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.02	0.08
315	2/2/2011 11:50	EAVES	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.04	0.08
316	2/2/2011 11:51	RAFTERS	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0.12	0.23
317	2/2/2011 11:55	WALL	STUCCO	SOUTH	FAIR	GRAY	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
318	2/2/2011 11:56	DOOR FRAME	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
319	2/2/2011 11:56	DOOR	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1238	EXTERIOR	Negative	0	0.02
320	2/2/2011 11:59	EAVES	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.6	0.4
321	2/2/2011 12:00	RAFTERS LOW.	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.5	0.3
322	2/2/2011 12:00	RAFTERS UP.	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Positive	2.5	1.4

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1238 - 1254 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
323	2/2/2011 12:01	RAFTERS UP.	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.02	0.07
324	2/2/2011 12:03	WINDOW CASING	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.02	0.09
325	2/2/2011 12:03	WINDOW SILL	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.04	0.14
326	2/2/2011 12:04	PORTICO CEILING	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.4	0.5
327	2/2/2011 12:05	PORTICO RAFTERS	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.5	0.4
328	2/2/2011 12:05	PORTICO FRAME	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.7	0.3
329	2/2/2011 12:06	PORTICO POSTS	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0	0.03
330	2/2/2011 12:07	DOOR FRAME	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.01	0.04
331	2/2/2011 12:07	DOOR	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0	0.03
332	2/2/2011 13:07	WINDOW CASING	WOOD	SOUTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1244	EXTERIOR	Negative	0	0.03
333	2/2/2011 13:08	DOOR FRAME	WOOD	SOUTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.6	0.2
334	2/2/2011 13:08	DOOR	WOOD	SOUTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0	0.02
335	2/2/2011 13:10	EAVES LOW.	WOOD	SOUTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.27	0.32
336	2/2/2011 13:10	RAFTERS LOW.	WOOD	SOUTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.3	0.41
337	2/2/2011 13:13	UPPER EAVES	WOOD	SOUTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.4	0.5
338	2/2/2011 13:13	UPPER FASCIA	WOOD	SOUTHWEST	FAIR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.4	0.6
339	2/2/2011 13:14	VENT	METAL	SOUTHWEST	PEELING	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.25	0.5
340	2/2/2011 13:16	WALL	STUCCO	SOUTHWEST	INTACT	GRAY	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0	0.02
341	2/2/2011 13:17	WALL	STUCCO	WEST	FAIR	GRAY	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0	0.02
342	2/2/2011 13:18	EAVES	WOOD	WEST	FAIR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.24	0.36
343	2/2/2011 13:19	FASCIA	WOOD	WEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.28	0.37
344	2/2/2011 13:21	GUTTER	METAL	NORTHWEST	INTACT	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.01	0.02
345	2/2/2011 13:21	PIPE	METAL	NORTHWEST	INTACT	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.19	0.4
346	2/2/2011 13:22	WINDOW SILL	WOOD	NORTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.7	0.3
347	**2/2/2011 13:23**	**WINDOW FRAME**	**WOOD**	**NORTHWEST**	**POOR**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**STORAGE RM**	**EXTERIOR**	**Positive**	**1.4**	**0.4**
348	2/2/2011 13:23	WINDOW FRAME	WOOD	NORTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.8	0.2
349	2/2/2011 13:24	WINDOW FRAME	WOOD	NORTHWEST	POOR	WHITE	1238-1254 P STREET	FIRST	STORAGE RM	EXTERIOR	Negative	0.7	0.2
350	2/2/2011 13:25	WINDOW SILL	STUCCO	NORTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1244	EXTERIOR	Null	1.2	0.7
351	2/2/2011 13:26	WALL	STUCCO	NORTH	POOR	GRAY	1238-1254 P STREET	FIRST	UNIT 1244	EXTERIOR	Negative	0.01	0.02
352	**2/2/2011 13:27**	**WINDOW SILL**	**WOOD**	**NORTH**	**POOR**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**UNIT 1244**	**EXTERIOR**	**Positive**	**1.5**	**0.5**
353	**2/2/2011 13:27**	**WINDOW SILL**	**WOOD**	**NORTH**	**POOR**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**UNIT 1244**	**EXTERIOR**	**Positive**	**1.3**	**0.3**
354	**2/2/2011 13:28**	**WINDOW FRAME**	**WOOD**	**NORTH**	**POOR**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**UNIT 1244**	**EXTERIOR**	**Positive**	**1.4**	**0.4**
355	2/2/2011 13:29	WINDOW SASH	WOOD	NORTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1244	EXTERIOR	Negative	0.4	0.4
356	2/2/2011 13:29	WINDOW SASH UP.	WOOD	NORTH	POOR	WHITE	1238-1254 P STREET	FIRST	UNIT 1244	EXTERIOR	Negative	0.3	0.42
357	2/2/2011 13:34	WINDOW SILL	WOOD	NORTH	PEELING	WHITE	1238-1254 P STREET	FIRST	UNIT 1242	EXTERIOR	Negative	0.6	0.3
358	**2/2/2011 13:34**	**WINDOW FRAME**	**WOOD**	**NORTH**	**PEELING**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**UNIT 1242**	**EXTERIOR**	**Positive**	**1.6**	**0.6**
359	2/2/2011 13:35	WINDOW FRAME	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1240	EXTERIOR	Negative	0	0.02

Inspector: George Paler
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Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1238 - 1254 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
360	2/2/2011 13:36	WALL	STUCCO	NORTH	POOR	GRAY	1238-1254 P STREET	FIRST	UNIT 1240	EXTERIOR	Negative	0	0.02
361	2/2/2011 13:39	LOWER EAVES	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1240	EXTERIOR	Negative	0.27	0.17
362	2/2/2011 13:40	RAFTERS LOW.	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1240	EXTERIOR	Negative	0.5	0.3
363	2/2/2011 13:40	RAFTERS UP.	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1240	EXTERIOR	Negative	0.08	0.18
364	2/2/2011 13:41	UPPER EAVES	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	UNIT 1240	EXTERIOR	Negative	0.07	0.21
365	2/2/2011 13:42	GUTTER	METAL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	UNIT 1240	EXTERIOR	Negative	0.29	0.67
366	2/2/2011 13:47	DOOR FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
367	2/2/2011 13:47	DOOR	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
368	2/2/2011 13:48	WALL	DRYWALL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
369	2/2/2011 13:48	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
370	2/2/2011 13:49	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
371	2/2/2011 13:49	WALL	DRYWALL	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0.01	0.04
372	2/2/2011 13:50	BASEBOARD	DRYWALL	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
373	2/2/2011 13:50	CEILING TRIM	WOOD	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
374	2/2/2011 13:51	CEILING	DRYWALL		INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	-0.05	0.94
375	2/2/2011 13:52	WALL	DRYWALL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0	0.02
376	2/2/2011 13:52	WALL	CONCRETE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0.03	0.08
377	2/2/2011 13:53	WALL	CONCRETE	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0.08	0.1
378	2/2/2011 13:53	DOOR FRAME	WOOD	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1246	Negative	0.06	0.12
379	2/2/2011 13:54	WINDOW SILL	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0	0.02
380	2/2/2011 13:54	BASEBOARD	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0	0.02
381	2/2/2011 13:55	WALL	DRYWALL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0	0.02
382	2/2/2011 13:56	WALL	CONCRETE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.07	0.12
383	2/2/2011 13:56	WINDOW FRAME	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0	0.02
384	2/2/2011 13:56	WINDOW FRAME	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0	0.02
385	2/2/2011 13:57	WINDOW SILL	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0	0.02
386	2/2/2011 13:57	UP. CABINET	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.16	0.3
387	2/2/2011 13:58	SHELVES	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.26	0.31
388	2/2/2011 13:58	LOW. CABINET	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.27	0.3
389	2/2/2011 13:59	WALL	CONCRETE	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.15	0.15
390	2/2/2011 14:00	WALL	CONCRETE	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.17	0.21
391	2/2/2011 14:00	CABINET	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.19	0.28
392	2/2/2011 14:01	SHELVES	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0.01	0.07
393	2/2/2011 14:02	CEILING	DRYWALL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1246	Negative	0	0.02
394	2/2/2011 14:03	CEILING	DRYWALL		INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.04	0.14
395	2/2/2011 14:04	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.01	0.04
396	2/2/2011 14:04	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0	0.02

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Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
397	2/2/2011 14:05	WALL	CONCRETE	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	-0.32	1.28
398	2/2/2011 14:05	WALL	CONCRETE	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.01	0.03
399	2/2/2011 14:06	DOOR	WOOD	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.02	0.08
400	2/2/2011 14:06	CLOSET DOOR	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.08	0.19
401	2/2/2011 14:06	CLOSET	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.01	0.05
402	2/2/2011 14:07	DOOR FRAME	METAL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.05	0.1
403	2/2/2011 14:08	DOOR	WOOD	SOUTH	INTACT	VARNISH	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1246	Negative	0.01	0.05
404	2/2/2011 14:21	WALL	CONCRETE	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.4	0.3
405	2/2/2011 14:21	WALL	CONCRETE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.27	0.14
406	2/2/2011 14:22	WINDOW FRAME	METAL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.06	0.16
407	2/2/2011 14:24	SHELVES	WOOD	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.02	0.06
408	2/2/2011 14:24	WALL	CONCRETE	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.7	0.3
409	2/2/2011 14:25	MED. CABINET	METAL	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.01	0.03
410	2/2/2011 14:26	SINK	CERAMIC	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.01	0.06
411	2/2/2011 14:26	TOILET	CERAMIC	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.01	0.04
412	2/2/2011 14:26	CEILING	DRYWALL	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1246	Negative	0.14	0.16
413	2/2/2011 14:33	FLOOR	CERAMIC TILE		INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1248	Negative	0.6	0.3
414	2/2/2011 14:34	COUNTER TOP	CERAMIC TILE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1248	Negative	0.08	0.23
415	2/2/2011 14:35	WINDOW SILL	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1248	Negative	0	0.02
416	2/2/2011 14:39	COUNTER TOP	CERAMIC TILE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1252	Negative	0.01	0.02
417	2/2/2011 14:48	DOOR FRAME	METAL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0.05	0.09
418	2/2/2011 14:48	DOOR	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0	0.02
419	2/2/2011 14:49	WALL	CONCRETE	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0.15	0.14
420	2/2/2011 14:49	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0	0.02
421	2/2/2011 14:50	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0	0.02
422	2/2/2011 14:50	WALL	CONCRETE	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0	0.02
423	2/2/2011 14:51	HEATER SOFFIT	DRYWALL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0	0.02
424	2/2/2011 14:52	WALL	CONCRETE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0.01	0.06
425	2/2/2011 14:52	WALL	CONCRETE	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0	0.02
426	2/2/2011 14:52	DOOR FRAME	METAL	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0.05	0.14
427	2/2/2011 14:53	DOOR	WOOD	WEST	INTACT	VARNISH	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0.05	0.13
428	2/2/2011 14:54	WALL	CONCRETE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.02	0.06
429	2/2/2011 14:55	WINDOW FRAME	METAL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.13	0.22
430	2/2/2011 14:56	WINDOW SASH	METAL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.01	0.05
431	2/2/2011 14:56	WINDOW FRAME	METAL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.11	0.17
432	2/2/2011 14:56	WINDOW SASH	METAL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.1	0.26
433	2/2/2011 14:57	UP. CABINET	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.11	0.29

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Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
434	2/2/2011 14:58	SHELVES	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.08	0.37
435	2/2/2011 14:58	LOW. CABINETS	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.04	0.14
436	2/2/2011 14:59	WALL	CONCRETE	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.04	0.06
437	2/2/2011 14:59	WALL	CONCRETE	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.09	0.16
438	2/2/2011 15:00	CABINET	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.08	0.23
439	2/2/2011 15:00	SHELVES	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0	0.02
440	2/2/2011 15:01	CEILING	DRYWALL		INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1250	Negative	0.06	0.1
441	2/2/2011 15:01	CEILING	DRYWALL		INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1250	Negative	0.08	0.23
442	2/2/2011 15:02	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0	0.02
443	2/2/2011 15:03	WINDOW FRAME	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0	0.02
444	2/2/2011 15:04	WALL	CONCRETE	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.04	0.06
445	2/2/2011 15:04	WALL	CONCRETE	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.04	0.06
446	2/2/2011 15:04	DOOR FRAME	METAL	EAST	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.03	0.07
447	2/2/2011 15:05	DOOR	WOOD	EAST	FAIR	VARNISH	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.03	0.13
448	2/2/2011 15:06	CEILING TRIM	WOOD	EAST	FAIR	VARNISH	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0	0.02
449	2/2/2011 15:06	CEILING	DRYWALL		FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.1	0.3
450	2/2/2011 15:07	CLOSET DOOR	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.06	0.17
451	2/2/2011 15:07	CLOSET	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.16	0.41
452	2/2/2011 15:08	DOOR FRAME	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0.05	0.13
453	2/2/2011 15:08	DOOR	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1250	Negative	0	0.02
454	2/2/2011 15:09	WINDOW FRAME	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0	0.02
455	2/2/2011 15:09	WINDOW SILL	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0	0.02
456	2/2/2011 15:10	WALL	CONCRETE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.29	0.7
457	2/2/2011 15:10	WALL	CONCRETE	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.11	0.12
458	2/2/2011 15:11	SHELVES	WOOD	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.01	0.05
459	2/2/2011 15:11	WALL	CONCRETE	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.5	0.3
460	2/2/2011 15:12	SINK	CERAMIC	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.01	0.04
461	2/2/2011 15:12	TOILET	CERAMIC	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.01	0.04
462	2/2/2011 15:13	FLOOR	CERAMIC TILE		INTACT	GRAY	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.4	0.3
463	2/2/2011 15:13	CEILING	DRYWALL		INTACT	GRAY	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0.16	0.28
464	2/2/2011 15:14	SHOWER WALL	DRYWALL	WEST	INTACT	GRAY	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1250	Negative	0	0.02
465	2/2/2011 15:18	DOOR FRAME	METAL	WEST	INTACT	GRAY	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1254	Negative	0.4	0.4
466	2/2/2011 15:19	DOOR	WOOD	WEST	INTACT	GRAY	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1254	Negative	0	0.02
467	2/2/2011 15:20	WALL	CONCRETE	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1254	Negative	0.17	0.28
468	2/2/2011 15:20	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1254	Negative	0	0.02
469	2/2/2011 15:21	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1254	Negative	0	0.02
470	2/2/2011 15:21	CEILING	DRYWALL		INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1254	Negative	0	0.02

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City of Firebaugh
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Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
471	2/2/2011 15:22	WINDOW FRAME	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1254	Negative	0.06	0.16
472	2/2/2011 15:23	WINDOW SASH	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1254	Negative	0.02	0.06
473	2/2/2011 15:23	WINDOW SASH	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1254	Negative	0.01	0.08
474	2/2/2011 15:23	WINDOW FRAME	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1254	Negative	0.06	0.09
475	2/2/2011 15:24	WINDOW SILL	CONCRETE	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1254	Negative	0.07	0.1
476	**2/2/2011 15:24**	**SINK**	**CERAMIC**	**SOUTH**	**FAIR**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**KITCHEN**	**UNIT 1254**	**Positive**	**41.8**	**37**
477	**2/2/2011 15:25**	**SINK**	**CERAMIC**	**SOUTH**	**FAIR**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**KITCHEN**	**UNIT 1250**	**Positive**	**38.6**	**34.6**
478	**2/2/2011 15:26**	**SINK**	**CERAMIC**	**SOUTH**	**FAIR**	**WHITE**	**1238-1254 P STREET**	**FIRST**	**KITCHEN**	**UNIT 1246**	**Positive**	**4.6**	**2.8**
479	2/2/2011 15:27	CABINET	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1254	Negative	0.12	0.29
480	2/2/2011 15:28	CABINET	WOOD	NORTH	FAIR	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1254	Negative	0.17	0.44
481	2/2/2011 15:29	WINDOW FRAME	METAL	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1254	Negative	0	0.02
482	2/2/2011 15:33	DOOR FRAME	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0	0.02
483	2/2/2011 15:33	DOOR	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0	0.02
484	2/2/2011 15:34	BASEBOARD	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.08	0.15
485	2/2/2011 15:34	WINDOW SILL	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0	0.02
486	2/2/2011 15:35	WINDOW FRAME	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0	0.03
487	2/2/2011 15:35	WALL	DRYWALL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Null	0.18	0.49
488	2/2/2011 15:35	WALL	DRYWALL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.1	0.13
489	2/2/2011 15:36	WALL	DRYWALL	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.23	0.18
490	2/2/2011 15:36	BASEBOARD	WOOD	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.19	0.39
491	2/2/2011 15:37	DOOR FRAME	WOOD	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.09	0.24
492	2/2/2011 15:37	DOOR	WOOD	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.17	0.31
493	2/2/2011 15:38	WALL	DRYWALL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.01	0.05
494	2/2/2011 15:38	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.07	0.18
495	2/2/2011 15:39	CEILING	DRYWALL		INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.03	0.69
496	2/2/2011 15:40	HEATER SOFFIT	DRYWALL	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0	0.02
497	2/2/2011 15:40	WALL	DRYWALL	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1238	Negative	0.03	0.06
498	2/2/2011 15:42	WALL	DRYWALL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.14	0.39
499	2/2/2011 15:43	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.01	0.04
500	2/2/2011 15:43	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.01	0.06
501	2/2/2011 15:44	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.16	0.42
502	2/2/2011 15:44	UP. CABINET	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.3	0.66
503	2/2/2011 15:45	LOW. CABINET	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.06	0.11
504	2/2/2011 15:45	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0	0.02
505	2/2/2011 15:46	CABINET	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.08	0.11
506	2/2/2011 15:47	SHELVES	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.22	0.46
507	2/2/2011 15:47	WALL	DRYWALL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.26	0.31

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1238 - 1254 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
508	2/2/2011 15:48	BASEBOARD	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.12	0.28
509	2/2/2011 15:49	CEILING	DRYWALL	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1238	Negative	0.26	0.37
510	2/2/2011 15:50	WINDOW SILL	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0	0.03
511	2/2/2011 15:51	WINDOW FRAME	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.15	0.4
512	2/2/2011 15:51	WINDOW SASH	WOOD	SOUTH	POOR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.12	0.3
513	2/2/2011 15:52	BASEBOARD	WOOD	SOUTH	FAIR	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.02	0.06
514	2/2/2011 15:52	CLOSET	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.27	0.61
515	2/2/2011 15:53	CLOSET	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.14	0.44
516	2/2/2011 15:53	CLOSET DOOR	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.07	0.2
517	2/2/2011 15:54	WALL	DRYWALL	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.09	0.22
518	2/2/2011 15:54	DOOR FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.07	0.25
519	2/2/2011 15:54	DOOR	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.06	0.16
520	2/2/2011 15:55	BASEBOARD	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BEDROOM	UNIT 1238	Negative	0.05	0.14
521	2/2/2011 15:56	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1238	Negative	-0.21	1.09
522	2/2/2011 15:56	WINDOW SILL	WOOD	NORTH	POOR	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1238	Negative	0.06	0.17
523	2/2/2011 15:57	WINDOW SASH	WOOD	NORTH	POOR	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1238	Negative	0.21	0.42
524	2/2/2011 15:58	SHELVES	WOOD	WEST	POOR	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1238	Negative	0.11	0.11
525	2/2/2011 15:58	TOILET	CERAMIC	WEST	POOR	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1238	Negative	-0.83	1.77
526	2/2/2011 15:59	CEILING	DRYWALL	WEST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1238	Negative	0.08	0.11
527	2/2/2011 16:08	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1242	Negative	0.4	0.6
528	2/2/2011 16:08	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1242	Negative	0.4	0.4
529	2/2/2011 16:08	WINDOW SASH	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1242	Negative	0.15	0.25
530	2/2/2011 16:09	WINDOW SASH	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1242	Negative	0.3	0.36
531	2/2/2011 16:09	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1242	Negative	0.27	0.37
532	2/2/2011 16:10	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1242	Negative	0.01	0.03
533	2/2/2011 16:11	WINDOW SILL	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1242	Negative	0.07	0.32
534	2/2/2011 16:11	WINDOW SASH	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1242	Negative	0.27	0.47
535	2/2/2011 16:12	WINDOW FRAME	WOOD	SOUTH	INTACT	WHITE	1238-1254 P STREET	FIRST	LIVING ROOM	UNIT 1242	Negative	-0.03	0.98
536	2/2/2011 16:12	WINDOW FRAME	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1242	Negative	0.1	0.13
537	2/2/2011 16:13	WINDOW SILL	WOOD	NORTH	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1242	Negative	0.1	0.24
538	2/2/2011 16:13	WINDOW SASH	WOOD	NORTH	PEELING	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1242	Negative	0.14	0.45
539	2/2/2011 16:14	SINK	CERAMIC	NORTH	PEELING	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1242	Negative	0.01	0.03
540	2/2/2011 16:19	WINDOW SILL	WOOD	NORTHWEST	PEELING	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1244	Negative	0.07	0.19
541	2/2/2011 16:19	WINDOW FRAME	WOOD	NORTHWEST	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1244	Negative	0.1	0.87
542	2/2/2011 16:20	WINDOW SASH	WOOD	NORTHWEST	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1244	Negative	0.04	0.09
543	2/2/2011 16:20	WINDOW SASH UP.	WOOD	NORTHWEST	INTACT	WHITE	1238-1254 P STREET	FIRST	KITCHEN	UNIT 1244	Negative	0.11	0.24
544	**2/2/2011 16:21**	SINK	CERAMIC	NORTHWEST	INTACT	WHITE	1238-1254 **P STREET**	FIRST	BATHROOM	UNIT **1244**	Positive	3.5	2.2

Inspector: George Paler
CDPH No.: I-1487
Date Inspection Performed:
02/2/11

Lead Based Paint Survey
XRF Reading Summary Table
City of Firebaugh
1238 - 1254 P Street

Analyzer: Niton XLp-702A
Units: mg/cm^2
Action Level: 1.0 mg/cm^2

Reading	Time	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Misc 1	Results	PbC	PbC Error
545	2/2/2011 16:22	TOILET	CERAMIC	EAST	INTACT	WHITE	1238-1254 P STREET	FIRST	BATHROOM	UNIT 1244	Negative	0.01	0.04
546	2/2/2011 16:26	CALIBRATION									Positive	1	0.1
547	2/2/2011 16:26	CALIBRATION									Negative	0.9	0.1
548	2/2/2011 16:27	CALIBRATION									Negative	0.9	0.1

Appendix C

PCB Analytical Report and Chain of Custody Documentation

EMSL Analytical, Inc.

http://www.emsl.com

3 Cooper St.
Westmont, NJ 08108
Phone: (856) 858-4800
Fax: (856) 858-4571

Attn: **Heidi Yavornicky**
Converse Consultants
222 East Huntington Drive
Suite 211
Monrovia, CA 91016
Phone: (626) 930-1200
Fax: (626) 930-1212

2/24/2011

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2/10/2011. The results are tabulated on the attached data pages for the following client designated project:

Firebaugh

The reference number for these samples is EMSL Order #011100710. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 858-4800.

Reviewed and Approved By:

Julie Smith - Laboratory Director or other approved signatory

The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.
NJ-NELAP Accredited: 04653

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Heidi Yavornicky**
Converse Consultants
222 East Huntington Drive
Suite 211
Monrovia, CA 91016

Fax: (626) 930-1212 Phone (626) 930-1200
Project: Firebaugh

Customer ID: 32CONV56
Customer PO: 08-11-115-02&03
Received: 02/10/11 12:00 PM
EMSL Order: 011100710

Analytical Results

Client Sample Description PCB-01 *Collected:* 2/1/2011 *Lab ID:* 0001

Method	Parameter	Result	Reporting Limit	Units	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1221	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1232	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1242	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1248	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1254	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1260	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1262	ND	0.83	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1268	ND	0.83	mg/Kg	2/23/2011	ehernandez

Client Sample Description PCB-02 *Collected:* 2/2/2011 *Lab ID:* 0002

Method	Parameter	Result	Reporting Limit	Units	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1221	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1232	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1242	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1248	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1254	2.9	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1260	1.2	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1262	ND	0.72	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1268	ND	0.72	mg/Kg	2/23/2011	ehernandez

Client Sample Description PCB-03 *Collected:* 2/3/2011 *Lab ID:* 0003

Method	Parameter	Result	Reporting Limit	Units	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1221	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1232	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1242	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1248	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1254	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1260	ND	0.86	mg/Kg	2/23/2011	ehernandez

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Heidi Yavornicky**
Converse Consultants
222 East Huntington Drive
Suite 211
Monrovia, CA 91016

Fax: (626) 930-1212 Phone (626) 930-1200
Project: **Firebaugh**

Customer ID: 32CONV56
Customer PO: 08-11-115-02&03
Received: 02/10/11 12:00 PM
EMSL Order: 011100710

Analytical Results

Client Sample Description PCB-03 *Collected:* 2/3/2011 *Lab ID:* 0003

Method	*Parameter*	*Result*	*Reporting Limit*	*Units*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1262	ND	0.86	mg/Kg	2/23/2011	ehernandez
3540C/8082	Aroclor-1268	ND	0.86	mg/Kg	2/23/2011	ehernandez

Definitions:
ND - indicates that the analyte was not detected at the reporting limit

EMSL Analytical Inc.

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 3786 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	X08699.D	**Sample Matrix:**	Soil
Instrument ID:	ECD-X	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	2/21/2011
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	2/23/2011 11:50:00 AM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	N
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/kg)	CONC. (mg/kg)	Q
12674-11-2	Aroclor 1016	0.10		U
11104-28-2	Aroclor 1221	0.10		U
11141-16-5	Aroclor 1232	0.10		U
53469-21-9	Aroclor 1242	0.10		U
12672-29-6	Aroclor 1248	0.10		U
11097-69-1	Aroclor 1254	0.10		U
11096-82-5	Aroclor 1260	0.10		U
37324-23-5	Aroclor 1262	0.10		U
11100-14-4	Aroclor 1268	0.10		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL PESTICIDE/PCB LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original File ID:** LCS 1 3786 X08699.D/X08700.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/kg	LCS CONC. mg/kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.30	87
2	Aroclor 1260	11096-82-5	63	131	1.50	1.39	92
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL PESTICIDE/PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 0826-1 PCB MS

File ID: X08735.D/X08736.D/X08737.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	7.81	6.96	89	7.98	6.66	84	6
2	Aroclor 1260	11096-82-5	43	167	25	0.00	7.81	7.23	93	7.98	6.85	86	8
				Total Out					0 of 2			0 of 2	0 of 2

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC.

EMSL Order Number *(Lab Use Only):* 011100710

Westmont, NJ
3 Cooper Street
Westmont, NJ 08108
PHONE: 1-800-220-3675
FAX: (856) 858-4960

Company: Converse Consultants

EMSL-Bill to: ☐ Same ☑ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Street: 222 E. Huntington Drive Suite 211

City/State/Zip: Monrovia, CA 91016

Report To (Name): Heidi Yavornicky **Fax:** 626-930-1212

Telephone: 626-930-1248 **Email Address:** hyavornicky@converseconsultants.com

Project Name/Number: Firebaugh

Please Provide Results: Email **Purchase Order:** **State Samples Taken:** CA

Standard Turnaround Time: ☐ 3 Weeks **The following TAT's are subject to lab approval:** ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Failure to complete will hinder processing of samples

Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water S=Soil A=Air SL=Sludge O=Other)	Preservative (1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other)	List Test(s) Needed: 8082 - PCBs only	Comments
(1) PCB-01		X	2/1/11	O	—	X	
(2) PCB-02		X	2/1/11	O	—	X	
(3) PCB-03		X	2/3/11	O	—	X	0.6g

Released By (Signature)	Date & Time	Received By	Date & Time
	2/7/11 for ~~comment~~ mx	EJ2	2/10/11 12:00p

Please indicate reporting requirements: ☐ Results Only ☒ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other ____

Comments/Special Instructions: Please reference job number 08-11-115-02 and -03 on invoice. Please email/telephone to let me know that you have received the samples.
Bill To: Converse Consultants, 222 E. Huntington Drive, Suite 211, Monrovia, CA 91016
Attention: Marie DeBoynton **Phone:** 626-930-1246 **Email:** mdeboynton@converseconsultants.com **Purchase Order:** See comments

Controlled Document – Environmental Chemistry COC – EC1.0 – 11/23/2009

Page 1 of 1 Pages

PER HEIDI, WILL CALL BACK ABOUT #3
5:00pm 2/14/11 –EZ

PER HEIDI, OK TO RUN AT REDUCED WEIGHT
2/15/11 –EZ
12:00p

Appendix D

Photographs

Picture 1: View of the transite pipe outside the west wall of the south building (ACM).

Picture 2: View of 9 X 9 blue VFT (ACM) – Unit 1242 Kitchen area.

Property Photographs

Picture 3: View of 9 X 9 red VFT (ACM) – Unit 1240 Kitchen area.

Picture 4: View of roof felt observed from east attic hatch, South Building (ACM).

Property Photographs

Appendix E

STATE OF CALIFORNIA
Arnold Schwarzenegger, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
ASBESTOS CONSULTANT and TRAINER APPROVAL UNIT
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825
Tel: (916) 574-2993 Fax: (916) 483-0572

307281136C 72 79

Converse Consultants
George John Paler
222 E Huntington Dr, 211
Monrovia ' CA 91016

November 02, 2010

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, please abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification. Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as a CAC or CSST.

Please inform our office at the above address, fax number or actu@dir.ca.gov of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Industrial Hygienist

JF/ms

Attachment: Certification Card
cc: File

(Renewal – Card Attached Revised 8/29/06)

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

George John Paler
Name
Certification No. **93-1136**
Expires on **11/19/11**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code

Mr. George J. Paler
Converse Consultants
222 East Huntington Drive, Suite 211
Monrovia, California 91016

State of Califo[illegible]t of Public Health

Inspector/Assessor 06/26/2011
Project Designer 06/26/2011
Project Monitor 06/26/2011

George J. Paler

ID #: 1487

STATE OF CALIFORNIA — Arnold Schwarzenegger, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
ASBESTOS CONSULTANT and TRAINER APPROVAL UNIT
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825
Tel: (916) 574-2993 Fax: (916) 483-0572

801074319T 311

December 30, 2010

Converse Consultants
Heidi L Yavornicky
222 E. Huntington Drive, 211
Morovia ' CA 91016

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, please abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification. Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as a CAC or CSST.

Please inform our office at the above address, fax number or actu@dir.ca.gov of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Industrial Hygienist

JF/ms

Attachment: Certification Card
cc: File

(Renewal – Card Attached Revised 8/29/06)

Ms. Heidi L. Yavornicky
Converse Consultants
222 East Huntington Drive, Suite 211
Monrovia, California 91016


State of California Department of Public Health
Lead-Related Construction Certificate
Certificate Type
Expiration Date
Sampling Technician 10/23/2011
Heidi L. Yavornicky
ID #: 19759

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Unit
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825-0414
(916) 574-2993 Office (916) 483-0572 Fax
http://www.dir.ca.gov/dirdatabases.html actu@dir.ca.gov

Edmund G. Brown, Jr., *Governor*

612162093C 138

Converse Consultants
Norman S Eke
222 E Huntington Dr, 211
Monrovia ' CA 91016

January 25, 2011

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please inform our office at the above address, fax number or email; of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Industrial Hygienist

Attachment: Certification Card

cc: File

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Norman S Eke
Name

Certification No. 96-2093

Expires on 03/07/12

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code

Renewal – Card Attached (Revised 01/04/2011)

California Department of
Public Health
Form 8552

Appendix F

State of California—Health and Human Services Agency

California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 2/8/2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
1238 - 1254 P Street	Firebaugh	Fresno	93622

Construction date (year) of structure	Type of structure		Children living in structure?	
>1956	☑ Multi-unit building	☐ School or daycare	☑ Yes	☐ No
	☐ Single family dwelling	☐ Other_____	☐ Don't Know	

Section 4 — Owner of Structure (If business/agency, list contact person)

Name	Telephone number
City of Firebaugh	(559) 659-2043

Address [number, street, apartment (if applicable)]	City	State	Zip Code
1133 P Street	Firebaugh	CA	93622

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☐ No lead-based paint detected ☑ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other_____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
George Palar/Converse Consultants	(626) 930-1258

Address [number, street, apartment (if applicable)]	City	State	Zip Code
222 E. Huntington Drive Suite 211	Monrovia	CA	91016

CDPH certification number	Signature	Date
#I-1487		2/23/11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656